284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

DATA PACKAGE

GENERAL CHEMISTRY
METALS
GC SEMI-VOLATILES
SEMI-VOLATILE ORGANICS
VOLATILE ORGANICS

PROJECT NAME : AMTRAK SAWTOOTH BRIDGES 2025

PORTAL PARTNERS TRI-VENTURE

c/o Gannett Fleming Inc. Transit and Rail System

207 Senate Avenue

Camp Hill, PA - 17011

Phone No: 610-650-8101

ORDER ID : Q2198

ATTENTION : Joseph Krupansky

Laboratory Certification ID # 20012

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DATA OF KNOWN QUALITY CONFORMANCE/NON-CONFORMANCE SUMMARY QUESTIONNAIRE

Laboratory Name : Alliance Technical Group LLC

Client : Portal Partners Tri-Venture

Project Location : Kearny, NJ

Project Number : 950000878

Laboratory Sample ID(s) : Q2198

Sampling Date(s) : 5/31/2025,06/01/2025

List DKQP Methods Used (e.g., 8260,8270, et Cetra) **,1030,1311,1311 ZHE, 6010D, 7196A, 7470A, 7471B, 8015D, 8081B, 8082A, 8151A, 8260-Low, 8260D ,8270E,9012B,9034,9040C,9045D,NJEPH,SOP**

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the NJDEP Data of Known Quality performance standards?	☑ Yes ☐ No
1A	Were the method specified handling, preservation, and holding time requirements met?	☐ Yes ☑ No
1B	EPH Method: Was the EPH method conducted without significant modifications (see Section 11.3 of respective DKQ methods)	☑ Yes ☐ No ☐ N/A
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	☑ Yes ☐ No
3	Were samples received at an appropriate temperature (4±2° C)?	☑ Yes ☐ No ☐ N/A
4	Were all QA/QC performance criteria specified in the NJDEP DKQP standards achieved?	☐ Yes ☑ No
5	a)Were reporting limits specified or referenced on the chain-of-custody or communicated to the laboratory prior to sample receipt? b)Were these reporting limits met?	☑ Yes ☐ No ☑ Yes ☐ No ☐ N/A
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the DKQP documents and/or site-specific QAPP?	☑ Yes ☐ No
7	Are project-specific matrix spikes and/or laboratory duplicates included in this data set?	☐ Yes ☑ No

Notes: For all questions to which the response was “No” (with the exception of question #7), additional information should be provided in an attached narrative. If the answer to question #1, #1A, or #1B is “No”, the data package does not meet the requirements for “Data of Known Quality.”

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Cover Page

Order ID : Q2198

Project ID : Amtrak Sawtooth Bridges 2025

Client : Portal Partners Tri-Venture

Lab Sample Number	Client Sample Number
Q2198-01	B-202-SB02
Q2198-02	B-202-SB02
Q2198-03	B-207-SB02
Q2198-04	B-207-SB02
Q2198-05	B-202-GW01

I certify that the data package is in compliance with the terms and conditions of the contract,both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the laboratory manager or his designee, as verified by the following signature.

Signature : APPROVED
By Nimisha Pandya, QA/QC Supervisor at 3:21 pm, Jun 17, 2025

Date: 6/17/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

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CASE NARRATIVE

Portal Partners Tri-Venture
Project Name: Amtrak Sawtooth Bridges 2025
Project # N/A
Order ID # Q2198
Test Name: VOC-TCLVOA-10

A. Number of Samples and Date of Receipt:
4 Solid samples were received on 06/03/2025.
1 Water sample was received on 06/03/2025.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: Corrosivity, EPH, EPH, Flash Point, Hexavalent Chromium, Ignitability, Mercury, Metals ICP-TAL, METALS-TAL, PCB, pH, RCRA CHARACTERISTICS, Reactive Cyanide, Reactive Sulfide, SVOC-TCL BNA -20, TCLP BNA, TCLP Extraction, TCLP FULL, TCLP Herbicide, TCLP ICP Metals, TCLP Mercury, TCLP Pesticide, TCLP VOA, TCLP ZHE Extraction, TCLP-FULL, TPH GC, Trivalent Chromium, VOC-TCLVOA-10 and VOC-TCLVOA-10. This data package contains results for VOC-TCLVOA-10.

C. Analytical Techniques:
The analysis performed on instrument MSVOA_X were done using GC column DB-624UI 20m 0.18mm 1.0 um. Cat#121-1324UIThe analysis performed on instrument MSVOA_Y were done using GC column Rxi-624SIL MS 30m, 0.25mm, 1.4 um, Cat. #13868.The analysis of VOC-TCLVOA-10 was based on method 8260D.

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Surrogate recoveries met the acceptable criteria.
The Internal Standards Areas met the acceptable requirements.
The Retention Times were acceptable for all samples.

The RPD for {VX0604WBSD01} with File ID: VX046497.D met criteria except for Carbon disulfide[29%], Chloroethane[36%], Chloromethane[22%], Cyclohexane[23%] and Methylcyclohexane[21%] due to difference in results of BS and BSD.

The Blank Spike for {VX0604WBS01} with File ID: VX046491.D met requirements for all samples except for Methyl Acetate[138%] this compound did not meet the NJDKQP criteria and in-house criteria, is failing high but no positive hit in associate sample therefore no corrective action taken.

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The Blank Spike Duplicate for {VX0604WBSD01} with File ID: VX046497.D met requirements for all samples except for Methyl Acetate[156%] this compound did not meet the NJDKQP criteria and in-house criteria, is failing high but no positive hit in associate sample therefore no corrective action taken.

The Blank analysis did not indicate the presence of lab contamination.

The Initial Calibration met the requirements.

The Continuous Calibration File ID VX046488.D met the requirements except for Methyl Acetate is failing high but no positive hit in associate sample therefore no corrective action taken.

The Tuning criteria met requirements.

E. Additional Comments:
Samples for MS/MSD for VOC analysis were not provided with this set of samples. The Blank Spike Duplicate is reported with the data.

Trip Blank was not provided with this set of samples.

The soil samples results are based on a dry weight basis.
Please use %D calculated based on Avg RF and CCRF for all compounds using Average Response Factor when the %RSD value for a compound is <20% for the Initial Calibration curve and use %D calculated based on Amount added and Calculated amount for all compounds using Linear Regression when the %RSD value for a compound is > 20% for the Initial Calibration curve for SW-846 analysis.

F. Manual Integration Comments:
Please refer to the Manual integration Report included with the Run Logs for information on the manual integrations performed.

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

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CASE NARRATIVE

Portal Partners Tri-Venture
Project Name: Amtrak Sawtooth Bridges 2025
Project # N/A
Order ID # Q2198
Test Name: TCLP VOA

A. Number of Samples and Date of Receipt:
4 Solid samples were received on 06/03/2025.
1 Water sample was received on 06/03/2025.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: Corrosivity, EPH, EPH, Flash Point, Hexavalent Chromium, Ignitability, Mercury, Metals ICP-TAL, METALS-TAL, PCB, pH, RCRA CHARACTERISTICS, Reactive Cyanide, Reactive Sulfide, SVOC-TCL BNA -20, TCLP BNA, TCLP Extraction, TCLP FULL, TCLP Herbicide, TCLP ICP Metals, TCLP Mercury, TCLP Pesticide, TCLP VOA, TCLP ZHE Extraction, TCLP-FULL, TPH GC, Trivalent Chromium, VOC-TCLVOA-10 and VOC-TCLVOA-10. This data package contains results for TCLP VOA.

C. Analytical Techniques:
The analysis performed on instrument MSVOA_N were done using GC column Rxi-624SIL MS 30m, 0.25mm, 1.4 um, Cat. #13868.The analysis of TCLP VOA was based on method 8260D and TCLP extraction method was 1311.

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Surrogate recoveries met the acceptable criteria.
The Internal Standards Areas met the acceptable requirements.
The Retention Times were acceptable for all samples.

The RPD met criteria.
The Blank Spike met requirements for all samples.
The Blank Spike Duplicate met requirements for all samples.
The Blank analysis did not indicate the presence of lab contamination.
The Initial Calibration met the requirements.
The Continuous Calibration met the requirements.
The Tuning criteria met requirements.

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E. Additional Comments:
Samples for MS/MSD for VOC analysis were not provided with this set of samples. The Blank Spike Duplicate is reported with the data.

Trip Blank was not provided with this set of samples.

The soil samples results are based on a dry weight basis.
Please use %D calculated based on Avg RF and CCRF for all compounds using Average Response Factor when the %RSD value for a compound is <20% for the Initial Calibration curve and use %D calculated based on Amount added and Calculated amount for all compounds using Linear Regression when the %RSD value for a compound is > 20% for the Initial Calibration curve for SW-846 analysis.

F. Manual Integration Comments:
Please refer to the Manual integration Report included with the Run Logs for information on the manual integrations performed.

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature_____ APPROVED
By Nimisha Pandya, QA/QC Supervisor at 3:22 pm, Jun 17, 2025

284 Sheffield Street, Mountainside, NJ 07092
Phone: 908 789 8900 Fax: 908 789 8922

CASE NARRATIVE

Portal Partners Tri-Venture
Project Name: Amtrak Sawtooth Bridges 2025
Project # N/A
Order ID # Q2198
Test Name: SVOC-TCL BNA -20

A. Number of Samples and Date of Receipt:
4 Solid samples were received on 06/03/2025.
1 Water sample was received on 06/03/2025.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: Corrosivity, EPH, EPH, Flash Point, Hexavalent Chromium, Ignitability, Mercury, Metals ICP-TAL, METALS-TAL, PCB, pH, RCRA CHARACTERISTICS, Reactive Cyanide, Reactive Sulfide, SVOC-TCL BNA -20, TCLP BNA, TCLP Extraction, TCLP FULL, TCLP Herbicide, TCLP ICP Metals, TCLP Mercury, TCLP Pesticide, TCLP VOA, TCLP ZHE Extraction, TCLP-FULL, TPH GC, Trivalent Chromium, VOC-TCLVOA-10 and VOC-TCLVOA-10. This data package contains results for SVOC-TCL BNA -20.

C. Analytical Techniques:
The samples were analyzed on instrument BNA_F using GC Column DB-UI 8270D which is 20 meters, 0.18 mm ID, 0.36 um dfThe samples were analyzed on instrument BNA_P using GC Column ZB-SemiVolatiles Guardian which is 30 meters, 0.25 mm ID, 0.5 um df, Catalog # 7HG-G027-17-GGAThe analysis of SVOC-TCL BNA -20 was based on method 8270E and extraction was done based on method 3510.

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Surrogate recoveries met the acceptable criteria.
The Internal Standards Areas met the acceptable requirements.
The Retention Times were acceptable for all samples.

The MS {Q2207-37MS} with File ID: BF142644.D recoveries met the requirements for all compounds except for 3,3-Dichlorobenzidine[56%], 3-Nitroaniline[58%], 4-Chloroaniline[54%] and Pyrene[66%] . These compounds did not meet the NJDKQP criteria but met the in-house criteria.

The MSD {Q2207-37MSD} with File ID: BF142645.D recoveries met the acceptable requirements except for 3,3-Dichlorobenzidine[58%], 3-Nitroaniline[60%] and 4-Chloroaniline[53%] . These compounds did not meet the NJDKQP criteria but met the in-house criteria.

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The RPD met criteria.

The Blank Spike for {PB168285BS} with File ID: BF142727.D met requirements for all samples except for 3,3-Dichlorobenzidine[43%], 3-Nitroaniline[52%] and 4-Chloroaniline[29%] . These compounds did not meet the NJDKQP criteria but met the in-house criteria.

The Blank Spike Duplicate for {PB168285BSD} with File ID: BF142728.D met requirements for all samples except for 3,3-Dichlorobenzidine[44%], 3-Nitroaniline[51%] and 4-Chloroaniline[29%] . These compounds did not meet the NJDKQP criteria but met the in-house criteria.

The Blank Spike for {PB168300BS} with File ID: BP024907.D met requirements for all samples except for 4-Chloroaniline[65%] . These compounds did not meet the NJDKQP criteria but met the in-house criteria.

The Blank analysis did not indicate the presence of lab contamination.

The % RSD is greater than 20% in the Initial Calibration (8270-BP060625.M) for 2,4-Dinitrophenol, 4-Nitrophenol these compound are passing on Linear Regression.

The Continuous Calibration File ID BF142640.D met the requirements except for 4-Nitrophenol is marginally biased Low and Bis(2-ethylhexyl)phthalate and Di-n-octyl phthalate . Failed high but no hit in associated samples, therefor no further corrective action was taken.

The Tuning criteria met requirements.

E. Additional Comments:
Alliance has analyzed samples for SVOC by Method 8270 E for Project “Amtrak Sawtooth Bridges 2025”.
Alliance certification was in applied status for water matrix for compound “2,4-Dimethylphenol” with NJDEP
for Method 8270E for SVOC at the time when samples for Project “Amtrak Sawtooth Bridges 2025 “were analyzed.

The Form 6 is not included in the data package because the Initial Calibration was performed using 7 points.
The soil samples results are based on a dry weight basis.
Please use %D calculated based on Avg RF and CCRF for all compounds using Average Response Factor when the %RSD value for a compound is <20% for the Initial Calibration curve and use %D calculated based on Amount added and Calculated amount for all compounds using Linear Regression when the %RSD value for a compound is > 20% for the Initial Calibration curve for SW-846 analysis.

F. Manual Integration Comments:
Please refer to the Manual integration Report included with the Run Logs for information on the manual integrations performed.

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Signature_____ **APPROVED**
By Nimisha Pandya, QA/QC Supervisor at 3:23 pm, Jun 17, 2025

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CASE NARRATIVE

Portal Partners Tri-Venture
Project Name: Amtrak Sawtooth Bridges 2025
Project # N/A
Order ID # Q2198
Test Name: TCLP BNA

A. Number of Samples and Date of Receipt:
4 Solid samples were received on 06/03/2025.
1 Water sample was received on 06/03/2025.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: Corrosivity, EPH, EPH, Flash Point, Hexavalent Chromium, Ignitability, Mercury, Metals ICP-TAL, METALS-TAL, PCB, pH, RCRA CHARACTERISTICS, Reactive Cyanide, Reactive Sulfide, SVOC-TCL BNA -20, TCLP BNA, TCLP Extraction, TCLP FULL, TCLP Herbicide, TCLP ICP Metals, TCLP Mercury, TCLP Pesticide, TCLP VOA, TCLP ZHE Extraction, TCLP-FULL, TPH GC, Trivalent Chromium, VOC-TCLVOA-10 and VOC-TCLVOA-10. This data package contains results for TCLP BNA.

C. Analytical Techniques:
The samples were analyzed on instrument BNA_M using GC Column ZB-SemiVolatiles Guardian which is 30 meters, 0.25 mm ID, 0.5 um df, Catalog # 7HG-G027-17-GGAThe analysis of TCLP BNA was based on method 8270E and extraction was done based on method 3510 and TCLP extraction method was 1311.

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Surrogate recoveries met the acceptable criteria.
The Internal Standards Areas met the acceptable requirements.
The Retention Times were acceptable for all samples.

The MS {Q2194-02MS} with File ID: BM050213.D recoveries met the requirements for all compounds except for 1,4-Dichlorobenzene[62%] and Hexachlorobutadiene[68%],these compounds did not meet the NJDKQP criteria but met the in-house criteria.

The MSD {Q2194-02MSD} with File ID: BM050214.D recoveries met the acceptable requirements except for 1,4-Dichlorobenzene[64%],this compound did not meet the NJDKQP criteria but met the in-house criteria.

The RPD met criteria .

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The Blank Spike met requirements for all samples .
The Blank analysis did not indicate the presence of lab contamination.

The Initial Calibration met the requirements.

The Continuous Calibration File ID BM050223.D met the requirements except for Pentachlorophenol , is failing high but no positive hit in associate samples therefore no corrective action taken.

The Tuning criteria met requirements.

E. Additional Comments:
The Form 6 is not included in the data package because the Initial Calibration was performed using 7 points.

Please use %D calculated based on Avg RF and CCRF for all compounds using Average Response Factor when the %RSD value for a compound is <20% for the Initial Calibration curve and use %D calculated based on Amount added and Calculated amount for all compounds using Linear Regression when the %RSD value for a compound is > 20% for the Initial Calibration curve for SW-846 analysis.

F. Manual Integration Comments:
Please refer to the Manual integration Report included with the Run Logs for information on the manual integrations performed.

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature_____ APPROVED
By Nimisha Pandya, QA/QC Supervisor at 3:23 pm, Jun 17, 2025

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Phone: 908 789 8900 Fax: 908 789 8922

CASE NARRATIVE

Portal Partners Tri-Venture
Project Name: Amtrak Sawtooth Bridges 2025
Project # N/A
Order ID # Q2198
Test Name: PCB

A. Number of Samples and Date of Receipt:
4 Solid samples were received on 06/03/2025.
1 Water sample was received on 06/03/2025.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: Corrosivity, EPH, EPH, Flash Point, Hexavalent Chromium, Ignitability, Mercury, Metals ICP-TAL, METALS-TAL, PCB, pH, RCRA CHARACTERISTICS, Reactive Cyanide, Reactive Sulfide, SVOC-TCL BNA -20, TCLP BNA, TCLP Extraction, TCLP FULL, TCLP Herbicide, TCLP ICP Metals, TCLP Mercury, TCLP Pesticide, TCLP VOA, TCLP ZHE Extraction, TCLP-FULL, TPH GC, Trivalent Chromium, VOC-TCLVOA-10 and VOC-TCLVOA-10. This data package contains results for PCB.

C. Analytical Techniques:
The analyses were performed on instrument GCECD_P. The front column is ZB-MR1 which is 30 meters, 0.32 mm ID, 0.5 um df, Catalogue # 7HM-G016-17. The rear column is ZB-MR2 which is 30 meters, 0.32 mm ID, 0.25 µm; Catalogue # 7HM-G017-11.The analyses were performed on instrument GCECD_O. The front column is ZB-MR1 which is 30 meters, 0.32 mm ID, 0.5 um df, Catalogue # 7HM-G016-17. The rear column is ZB-MR2 which is 30 meters, 0.32 mm ID, 0.25 µm; Catalogue # 7HM-G017-11.The analysis of PCBs was based on method 8082A and extraction was done based on method 3510.

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Surrogate recoveries met the acceptable criteria.
The Retention Times were acceptable for all samples.
The MS recoveries met the requirements for all compounds.
The MSD recoveries met the acceptable requirements.
The RPD met criteria .
The Blank Spike met requirements for all samples .
The Blank Spike Duplicate met requirements for all samples .
The Blank analysis did not indicate the presence of lab contamination.
The Initial Calibration met the requirements .
The Continuous Calibration File ID PP072634.D met the requirements except for Aroclor-1016(Peak-01),Aroclor-1260(Peak-02),Aroclor-1260(Peak-04) is failing in 1st column, however it is passed in 2nd column therefore no corrective action was taken.

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E. Additional Comments:
The soil samples results are based on a dry weight basis.

F. Manual Integration Comments:
Please refer to the Manual integration Report included with the Run Logs for information on the manual integrations performed.

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature_____ APPROVED
By Nimisha Pandya, QA/QC Supervisor at 3:23 pm, Jun 17, 2025

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CASE NARRATIVE

Portal Partners Tri-Venture
Project Name: Amtrak Sawtooth Bridges 2025
Project # N/A
Order ID # Q2198
Test Name: TCLP Pesticide

A. Number of Samples and Date of Receipt:
4 Solid samples were received on 06/03/2025.
1 Water sample was received on 06/03/2025.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: Corrosivity, EPH, EPH, Flash Point, Hexavalent Chromium, Ignitability, Mercury, Metals ICP-TAL, METALS-TAL, PCB, pH, RCRA CHARACTERISTICS, Reactive Cyanide, Reactive Sulfide, SVOC-TCL BNA -20, TCLP BNA, TCLP Extraction, TCLP FULL, TCLP Herbicide, TCLP ICP Metals, TCLP Mercury, TCLP Pesticide, TCLP VOA, TCLP ZHE Extraction, TCLP-FULL, TPH GC, Trivalent Chromium, VOC-TCLVOA-10 and VOC-TCLVOA-10. This data package contains results for TCLP Pesticide.

C. Analytical Techniques:
The analysis was performed on instrument ECD_D. The front column is ZB-MR1 which is 30 meters, 0.32 mm ID, 0. 5 um df,: Catalog # 7HM-G016-17. The rear column is ZB-MR2 which is 30 meters, 0.32 mm ID, 0.25 um df, Catalog #: 7HMG017- 11.The analysis of TCLP Pesticides was based on method 8081B and extraction was done based on method 3510 and TCLP extraction method was 1311.

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Surrogate recoveries met the acceptable criteria.
The Retention Times were acceptable for all samples.
The MS recoveries met the requirements for all compounds.
The MSD recoveries met the acceptable requirements.
The RPD met criteria .
The Blank Spike met requirements for all samples .
The Blank analysis did not indicate the presence of lab contamination.
The Initial Calibration met the requirements .
The Continuous Calibration met the requirements .

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E. Additional Comments:

F. Manual Integration Comments:
Please refer to the Manual integration Report included with the Run Logs for information on the manual integrations performed.

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature APPROVED
By Nimisha Pandya, QA/QC Supervisor at 3:23 pm, Jun 17, 2025

284 Sheffield Street, Mountainside, NJ 07092
Phone: 908 789 8900 Fax: 908 789 8922

CASE NARRATIVE

Portal Partners Tri-Venture
Project Name: Amtrak Sawtooth Bridges 2025
Project # N/A
Order ID # Q2198
Test Name: TCLP Herbicide

A. Number of Samples and Date of Receipt:
4 Solid samples were received on 06/03/2025.
1 Water sample was received on 06/03/2025.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: Corrosivity, EPH, EPH, Flash Point, Hexavalent Chromium, Ignitability, Mercury, Metals ICP-TAL, METALS-TAL, PCB, pH, RCRA CHARACTERISTICS, Reactive Cyanide, Reactive Sulfide, SVOC-TCL BNA -20, TCLP BNA, TCLP Extraction, TCLP FULL, TCLP Herbicide, TCLP ICP Metals, TCLP Mercury, TCLP Pesticide, TCLP VOA, TCLP ZHE Extraction, TCLP-FULL, TPH GC, Trivalent Chromium, VOC-TCLVOA-10 and VOC-TCLVOA-10. This data package contains results for TCLP Herbicide.

C. Analytical Techniques:
The analysis was performed on instrument ECD_S. The front column is RTX-CLPesticides which is 30 meters, 0.32 mm ID, 0. 5 um df,: Catalog # 11139. The rear column is RTX-CLPesticides2 which is 30 meters, 0.32 mm ID, 0.25 um df, Catalog #: 11324The analysis of TCLP Herbicides was based on method 8151A and extraction was done based on method 3510 and TCLP extraction method was 1311.

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Surrogate recoveries met the acceptable criteria.
The Retention Times were acceptable for all samples.
The MS recoveries met the requirements for all compounds .
The MSD recoveries met the acceptable requirements .
The RPD met criteria .
The Blank Spike met requirements for all samples .
The Blank analysis did not indicate the presence of lab contamination.
The Initial Calibration met the requirements .
The Continuous Calibration met the requirements .

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E. Additional Comments:

F. Manual Integration Comments:
Please refer to the Manual integration Report included with the Run Logs for information on the manual integrations performed.

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature_____ APPROVED
By Nimisha Pandya, QA/QC Supervisor at 3:23 pm, Jun 17, 2025

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Phone: 908 789 8900 Fax: 908 789 8922

CASE NARRATIVE

Portal Partners Tri-Venture
Project Name: Amtrak Sawtooth Bridges 2025
Project # N/A
Order ID # Q2198
Test Name: EPH

A. Number of Samples and Date of Receipt:
4 Solid samples were received on 06/03/2025.
1 Water sample was received on 06/03/2025.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: Corrosivity, EPH, EPH, Flash Point, Hexavalent Chromium, Ignitability, Mercury, Metals ICP-TAL, METALS-TAL, PCB, pH, RCRA CHARACTERISTICS, Reactive Cyanide, Reactive Sulfide, SVOC-TCL BNA -20, TCLP BNA, TCLP Extraction, TCLP FULL, TCLP Herbicide, TCLP ICP Metals, TCLP Mercury, TCLP Pesticide, TCLP VOA, TCLP ZHE Extraction, TCLP-FULL, TPH GC, Trivalent Chromium, VOC-TCLVOA-10 and VOC-TCLVOA-10. This data package contains results for EPH.

C. Analytical Techniques:
The analysis were performed on instrument FID_C. The column is RXI-1MS which is 20 meters, 0.18mm ID, 0.18 um df, catalog 10224.The analyses were performed on instrument FID_D. The column is RXI-1MS which is 20 meters, 0.18mm ID, 0.18 um df, catalog 10224.The analysis of EPHs was based on method NJEPH and extraction was done based on method 3510.

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Surrogate recoveries met the acceptable criteria.
The Retention Times were acceptable for all samples.
The MS {Q2177-02MS} with File ID: FD049484.D recoveries met the requirements for all compounds except for Aromatic C10-C12[28%], Aromatic C12-C16[32%] due to matrix interference.
The MSD {Q2177-02MSD} with File ID: FD049485.D recoveries met the acceptable requirements except for Aromatic C10-C12[29%], Aromatic C12-C16[34%] due to matrix interference.
The RPD met criteria .
The Blank Spike met requirements for all samples .
The Blank Spike Duplicate met requirements for all samples .
The Blank analysis did not indicate the presence of lab contamination.
The Initial Calibration met the requirements .
The Continuous Calibration met the requirements .

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E. Additional Comments:
The soil samples results are based on a dry weight basis.

F. Manual Integration Comments:
Please refer to the Manual integration Report included with the Run Logs for information on the manual integrations performed.

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature_____ APPROVED
By Nimisha Pandya, QA/QC Supervisor at 3:24 pm, Jun 17, 2025

284 Sheffield Street, Mountainside, NJ 07092
Phone: 908 789 8900 Fax: 908 789 8922

CASE NARRATIVE

Portal Partners Tri-Venture
Project Name: Amtrak Sawtooth Bridges 2025
Project # N/A
Order ID # Q2198
Test Name: TPH GC

A. Number of Samples and Date of Receipt:
4 Solid samples were received on 06/03/2025.
1 Water sample was received on 06/03/2025.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: Corrosivity, EPH, EPH, Flash Point, Hexavalent Chromium, Ignitability, Mercury, Metals ICP-TAL, METALS-TAL, PCB, pH, RCRA CHARACTERISTICS, Reactive Cyanide, Reactive Sulfide, SVOC-TCL BNA -20, TCLP BNA, TCLP Extraction, TCLP FULL, TCLP Herbicide, TCLP ICP Metals, TCLP Mercury, TCLP Pesticide, TCLP VOA, TCLP ZHE Extraction, TCLP-FULL, TPH GC, Trivalent Chromium, VOC-TCLVOA-10 and VOC-TCLVOA-10. This data package contains results for TPH GC.

C. Analytical Techniques:
The analysis were performed on instrument FID_G. The column is RXI-1MS which is 20 meters, 0.18mm ID, 0.18 um df, catalog 13302.The analysis of TPH GC was based on method 8015D and extraction was done based on method 3510.

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Surrogate recoveries met the acceptable criteria.
The Retention Times were acceptable for all samples.
The MS recoveries met the requirements for all compounds .
The MSD recoveries met the acceptable requirements .
The RPD met criteria .
The Blank Spike met requirements for all samples .
The Blank analysis did not indicate the presence of lab contamination.
The Initial Calibration met the requirements .
The Continuous Calibration met the requirements .

E. Additional Comments:
The soil samples results are based on a dry weight basis.

F. Manual Integration Comments:
Please refer to the Manual integration Report included with the Run Logs for information on the manual integrations performed.

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Phone: 908 789 8900 Fax: 908 789 8922

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Signature APPROVED
By Nimisha Pandya, QA/QC Supervisor at 3:24 pm, Jun 17, 2025

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CASE NARRATIVE

Portal Partners Tri-Venture
Project Name: Amtrak Sawtooth Bridges 2025
Project # N/A
Order ID # Q2198
Test Name: Mercury,Metals ICP-TAL

A. Number of Samples and Date of Receipt:
4 Solid samples were received on 06/03/2025.
1 Water sample was received on 06/03/2025.

B. Parameters:
According to the Chain of Custody document, the following analyses were requested: Corrosivity, EPH, EPH, Flash Point, Hexavalent Chromium, Ignitability, Mercury, Metals ICP-TAL, METALS-TAL, PCB, pH, RCRA CHARACTERISTICS, Reactive Cyanide, Reactive Sulfide, SVOC-TCL BNA -20, TCLP BNA, TCLP Extraction, TCLP FULL, TCLP Herbicide, TCLP ICP Metals, TCLP Mercury, TCLP Pesticide, TCLP VOA, TCLP ZHE Extraction, TCLP-FULL, TPH GC, Trivalent Chromium, VOC-TCLVOA-10 and VOC-TCLVOA-10. This data package contains results for Mercury,Metals ICP-TAL.

C. Analytical Techniques:
The analysis of Metals ICP-TAL was based on method 6010D, digestion based on method 3050 (soils) and 3010 (waters).The analysis and digestion of Mercury was based on method 7470A. The analysis and digestion of Mercury was based on method 7471B.

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Blank Spike met requirements for all samples.
The Duplicate (OK-01-060325DUP) analysis met criteria for all samples except for Cadmium and Sodium due to sample matrix interference. The Duplicate (OK-01-060325MSD) analysis met criteria for all samples except for Potassium due to Chemical Interference during Digestion Process.
The Matrix Spike (B-202-GW01MS) analysis met criteria for all elements except for Antimony and Manganese due to Chemical Interference during Digestion process. The Matrix Spike (OK-01-060325MS) analysis met criteria for all elements except for Antimony, Barium, Beryllium, Potassium, Sodium and Zinc due to Chemical Interference during Digestion Process and for Mercury due to sample matrix interference.
The Matrix Spike Duplicate (B-202-GW01MSD) analysis met criteria for all elements except for Antimony and Manganese due to Chemical Interference during Digestion Process. The Matrix Spike Duplicate (OK-01-060325MSD) analysis met criteria for all elements except for Antimony, Barium, Beryllium, Chromium, Copper, Potassium, Silver and Sodium due to Chemical Interference during Digestion process.

The Blank analysis did not indicate the presence of lab contamination.
The Calibration met the requirements.
The Serial Dilution (OK-01-060325L) met criteria for all samples except for Calcium, Chromium, Copper, and Manganese due to sample matrix interference.

E. Additional Comments:
The Post Digest Spike (Ok-01-060325A) analysis met criteria for all elements except for Barium, Chromium, Copper, Potassium and Sodium due to unknown chemical interference of matrix with the addition of spike amount after digestion and before analysis; matrix has suppression effect during addition of spike.

The Post Digest Spike (B-202-GW01A) analysis met criteria for all elements except for Antimony and Manganese due to unknown chemical interference of matrix with the addition of spike amount after digestion and before analysis; matrix has suppression effect during addition of spike.

Sample Q2198-05 and its QC's analyzed straight 5X Dilution due to sample matrix very highly contaminated and viscos matrix which can cause sample transporting to the sample introduction and to the torch

In analytical sequence LB136011, The % recovery was outside of acceptance limit for Iron, Potassium and Sodium of CCV08 but, no any sample associated under this CCV.

In analytical sequence LB136052, The % recovery was outside of acceptance limit for Arsenic, Iron, Potassium, Selenium, Sodium, Thallium, and Zinc of CCV06 and for Arsenic and Selenium of CCV07 but, no any samples associated under these CCVs.

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature 

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CASE NARRATIVE

Portal Partners Tri-Venture
Project Name: Amtrak Sawtooth Bridges 2025
Project # N/A
Order ID # Q2198
Test Name: TCLP ICP Metals,TCLP Mercury

A. Number of Samples and Date of Receipt:
4 Solid samples were received on 06/03/2025.
1 Water sample was received on 06/03/2025.

B. Parameters:
According to the Chain of Custody document, the following analyses were requested: Corrosivity, EPH, EPH, Flash Point, Hexavalent Chromium, Ignitability, Mercury, Metals ICP-TAL, METALS-TAL, PCB, pH, RCRA CHARACTERISTICS, Reactive Cyanide, Reactive Sulfide, SVOC-TCL BNA -20, TCLP BNA, TCLP Extraction, TCLP FULL, TCLP Herbicide, TCLP ICP Metals, TCLP Mercury, TCLP Pesticide, TCLP VOA, TCLP ZHE Extraction, TCLP-FULL, TPH GC, Trivalent Chromium, VOC-TCLVOA-10 and VOC-TCLVOA-10. This data package contains results for TCLP ICP Metals,TCLP Mercury.

C. Analytical Techniques:
The analysis of TCLP ICP Metals was based on method 6010D, digestion based on method 3010 (waters). The analysis and digestion of TCLP Mercury was based on method 7470A and TCLP extraction method was 1311.

D. QA/ QC Samples:

The Holding Times were met for all analysis.
The Blank Spike met requirements for all samples.
The Duplicate analysis met criteria for all samples.
The Matrix Spike analysis met criteria for all samples.
The Matrix Spike Duplicate analysis met criteria for all samples.
The Blank analysis did not indicate the presence of lab contamination.
The Calibration met the requirements.
The Serial Dilution met the acceptable requirements.

E. Additional Comments:

In analytical sequence LB136052, The % Recovery outside limit for Arsenic and selenium of CCV06 and CCV07 but, no any samples associated under these CCVs.

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature_____ APPROVED
By Nimisha Pandya, QA/QC Supervisor at 3:24 pm, Jun 17, 2025

284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

CASE NARRATIVE

Portal Partners Tri-Venture
Project Name: Amtrak Sawtooth Bridges 2025
Project # N/A
Order ID # Q2198
Test Name: Corrosivity,Hexavalent Chromium,Ignitability,pH,Reactive Cyanide,Reactive Sulfide,Trivalent Chromium

A. Number of Samples and Date of Receipt:
4 Solid samples were received on 06/03/2025.
1 Water sample was received on 06/03/2025.

B. Parameters:
According to the Chain of Custody document, the following analyses were requested: Corrosivity, EPH, EPH, Flash Point, Hexavalent Chromium, Ignitability, Mercury, Metals ICP-TAL, METALS-TAL, PCB, pH, RCRA CHARACTERISTICS, Reactive Cyanide, Reactive Sulfide, SVOC-TCL BNA -20, TCLP BNA, TCLP Extraction, TCLP FULL, TCLP Herbicide, TCLP ICP Metals, TCLP Mercury, TCLP Pesticide, TCLP VOA, TCLP ZHE Extraction, TCLP-FULL, TPH GC, Trivalent Chromium, VOC-TCLVOA-10 and VOC-TCLVOA-10. This data package contains results for Corrosivity,Hexavalent Chromium,Ignitability,pH,Reactive Cyanide,Reactive Sulfide,Trivalent Chromium.

C. Analytical Techniques:
The analysis of Ignitability was based on method 1030, The analysis of Trivalent Chromium was based on method 6010D, The analysis of Hexavalent Chromium was based on method 7196A, The analysis of Reactive Cyanide was based on method 9012B, The analysis of Reactive Sulfide was based on method 9034, The analysis of pH was based on method 9040C and The analysis of Corrosivity,pH was based on method 9045D.

D. QA/ QC Samples:
The Holding Times were met for all samples except for B-202-GW01 of pH, for B-202-SB02 of pH.for B-202-SB02 of Corrosivity.for B-207-SB02 of pH.for B-207-SB02 of Corrosivity. As these samples are received out of hold.

The Blank Spike met requirements for all samples.
The Duplicate analysis met criteria for all samples.
The Matrix Spike analysis met criteria for all samples.
The Matrix Spike Duplicate analysis met criteria for all samples.
The Blank analysis did not indicate the presence of lab contamination.
The Calibration met the requirements.

E. Additional Comments:
Sample was filtered in the Lab and analyzed after 24 hours from collection. PH was 7.3 and was adjusted to 9.4.

Sample was filtered in the Lab and analyzed after 24 hours from collection. Because sample was received out of working hours it was filtered in the next morning.

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature_____ **APPROVED**
By Nimisha Pandya, QA/QC Supervisor at 3:25 pm, Jun 17, 2025

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Tel. 908-789-8900 Fax: 908-789-8922

DATA REPORTING QUALIFIERS- INORGANIC

For reporting results, the following " Results Qualifiers" are used:

J	Indicates the reported value was obtained from a reading that was less than the Contract Required Detection Limit (CRDL), but greater than or equal to the Instrument Detection Limit (IDL).
U	Indicates the analyte was analyzed for, but not detected.
ND	Indicates the analyte was analyzed for, but not detected
E	Indicates the reported value is estimated because of the presence of interference
M	Indicates Duplicate injection precision not met.
N	Indicates the spiked sample recovery is not within control limits.
S	Indicates the reported value was determined by the Method of Standard Addition (MSA).
*	Indicates that the duplicate analysis is not within control limits.
+	Indicates the correlation coefficient for the MSA is less than 0.995.
D	Indicates the reported value is from a secondary analysis with a dilution factor. The original analysis exceeded the calibration range.
M	Method qualifiers **"P"** for ICP instrument **"PM"** for ICP when Microwave Digestion is used **"CV"** for Manual Cold Vapor AA **"AV"** for automated Cold Vapor AA **"CA"** for MIDI-Distillation Spectrophotometric **"AS"** for Semi –Automated Spectrophotometric **"C"** for Manual Spectrophotometric **"T"** for Titrimetric **"NR"** for analyte not required to be analyzed
OR	Indicates the analyte's concentration exceeds the calibrated range of the instrument for that specific analysis.
Q	Indicates the LCS did not meet the control limits requirements
H	Sample Analysis Out Of Hold Time

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908-789-8900 Fax: 908-789-8922

DATA REPORTING QUALIFIERS- ORGANIC

For reporting results, the following " Results Qualifiers" are used:

Value	If the result is a value greater than or equal to the detection limit, report the value
U	Indicates the compound was analyzed for but was not detected. Report the minimum detection limit for the sample with the U, i.e. "10 U". This is not necessarily the instrument detection limit attainable for this particular sample based on any concentration or dilution that may have been required.
ND	Indicates the analyte was analyzed for, but not detected
J	Indicates an estimated value**.** This flag is used: (1) When estimating a concentration for a tentatively identified compound (library search hits, where a 1:1 response is assumed.) (2) When the mass spectral data indicated the identification, however the result was less than the specified detection limit greater than zero. If the detection limit was 10ug/L and a concentration of 3 ug/L was calculated report as 3 J. This is flag is used when similar situation arise on any organic parameter i.e. Pest, PCB and others.
B	Indicates the analyte was found in the blank as well as the sample report as "12 B".
E	Indicates the analyte 's concentration exceeds the calibrated range of the instrument for that specific analysis.
D	This flag identifies all compounds identified in an analysis at a secondary dilution factor.
P	This flag is used for Pesticide/PCB target analyte when there is >25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on Form 1 and flagged with a "P".
N	This flag indicates presumptive evidence of a compound. This is only used for tentatively identified compounds (TICs), where the identification is based on a mass spectral library search. It applies to all TIC results. For generic characterization of a TIC, such as chlorinated hydrocarbon, the flag is not used.
A	This flag indicates that a Tentatively Identified Compound is a suspected aldol-condensation product.
Q	Indicates the LCS did not meet the control limits requirements

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APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: Q2198

	Completed
For thorough review, the report must have the following:	
GENERAL:	
Are all original paperwork present (chain of custody, record of communication,airbill, sample management lab chronicle, login page)	✓
Check chain-of-custody for proper relinquish/return of samples	✓
Is the chain of custody signed and complete	✓
Check internal chain-of-custody for proper relinquish/return of samples /sample extracts	✓
Collect information for each project id from server. Were all requirements followed	✓
COVER PAGE:	
Do numbers of samples correspond to the number of samples in the Chain of Custody on login page	✓
Do lab numbers and client Ids on cover page agree with the Chain of Custody	✓
CHAIN OF CUSTODY:	
Do requested analyses on Chain of Custody agree with form I results	✓
Do requested analyses on Chain of Custody agree with the log-in page	✓
Were the correct method log-in for analysis according to the Analytical Request and Chain of Castody	✓
Were the samples received within hold time	✓
Were any problems found with the samples at arrival recorded in the Sample Management Laboratory Chronicle	✓
ANALYTICAL:	
Was method requirement followed?	✓
Was client requirement followed?	✓
Does the case narrative summarize all QC failure?	✓
All runlogs and manual integration are reviewed for requirements	✓
All manual calculations and /or hand notations verified	✓

QA Review Signature: SOHIL JODHANI **Date:** 06/17/2025

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Hit Summary Sheet
SW-846

SDG No.: Q2198

Client: Portal Partners Tri-Venture

Sample ID	Client ID	Matrix	Parameter		Concentration	C	MDL	RDL	Units
Client ID:	**B-202-SB02**								
Q2198-01	B-202-SB02	SOIL	Acetone		14.2	J	4.10	21.6	ug/Kg
Q2198-01	B-202-SB02	SOIL	Carbon Disulfide		3.10	J	0.91	4.30	ug/Kg
Q2198-01	B-202-SB02	SOIL	Methylene Chloride		3.50	J	3.00	8.60	ug/Kg
			Total Voc :		20.8				
Q2198-01	B-202-SB02	SOIL	Benzene, 1,2,4,5-tetramethyl-	*	39.3	J	0	0	ug/Kg
Q2198-01	B-202-SB02	SOIL	Benzene, 1,2,3,5-tetramethyl-	*	31.4	J	0	0	ug/Kg
Q2198-01	B-202-SB02	SOIL	Benzene, 1-ethyl-2,4-dimethyl-	*	35.9	J	0	0	ug/Kg
Q2198-01	B-202-SB02	SOIL	Benzene, 1-ethyl-2,3-dimethyl-	*	14.4	J	0	0	ug/Kg
Q2198-01	B-202-SB02	SOIL	3-Phenylbut-1-ene	*	12.2	J	0	0	ug/Kg
Q2198-01	B-202-SB02	SOIL	Benzene, 2-ethyl-1,4-dimethyl-	*	34.6	J	0	0	ug/Kg
Q2198-01	B-202-SB02	SOIL	Benzene, 1,3-diethyl-5-methyl-	*	14.6	J	0	0	ug/Kg
Q2198-01	B-202-SB02	SOIL	Benzene, 2-ethyl-1,3-dimethyl-	*	14.3	J	0	0	ug/Kg
Q2198-01	B-202-SB02	SOIL	Benzene, 1-ethyl-4-(1-methylet	*	21.1	J	0	0	ug/Kg
Q2198-01	B-202-SB02	SOIL	1,4-Cyclohexadiene, 3-ethenyl-	*	12.3	J	0	0	ug/Kg
Q2198-01	B-202-SB02	SOIL	n-Butylbenzene	*	2.20	J	1.30	4.30	ug/Kg
			Total Tics :		232				
			Total Concentration:		253				
Client ID:	**B-207-SB02**								
Q2198-03	B-207-SB02	SOIL	Acetone		71.8		9.30	49.3	ug/Kg
Q2198-03	B-207-SB02	SOIL	Carbon Disulfide		3.40	J	2.10	9.90	ug/Kg
Q2198-03	B-207-SB02	SOIL	2-Butanone		14.8	J	12.9	49.3	ug/Kg
			Total Voc :		90.0				
			Total Concentration:		90.0				
Client ID:	**B-202-GW01**								
Q2198-05	B-202-GW01	Water	Acetone		6.60		1.50	5.00	ug/L
Q2198-05	B-202-GW01	Water	Toluene		1.20		0.14	1.00	ug/L
Q2198-05	B-202-GW01	Water	m/p-Xylenes		2.00		0.24	2.00	ug/L
			Total Voc :		9.80				
Q2198-05	B-202-GW01	Water	Benzene, 1,2,4,5-tetramethyl-	*	9.30	J	0	0	ug/L
Q2198-05	B-202-GW01	Water	Benzene, 1,2,3,4-tetramethyl-	*	5.50	J	0	0	ug/L
Q2198-05	B-202-GW01	Water	o-Cymene	*	5.60	J	0	0	ug/L
Q2198-05	B-202-GW01	Water	1-Phenyl-1-butene	*	8.90	J	0	0	ug/L
Q2198-05	B-202-GW01	Water	Sulfur dioxide	*	6.20	J	0	0	ug/L
Q2198-05	B-202-GW01	Water	1,2,4-Trimethylbenzene	*	0.39	J	0.14	1.00	ug/L
			Total Tics :		35.9				
			Total Concentration:		45.7				

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Hit Summary Sheet
SW-846

SDG No.: Q2198

Client: Portal Partners Tri-Venture

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units

SAMPLE DATA

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	05/31/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	06/03/25
Client Sample ID:	B-202-SB02	SDG No.:	Q2198
Lab Sample ID:	Q2198-01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	71.9
Sample Wt/Vol:	8.06 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022552.D	1		06/04/25 15:47	VY060425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	0.98	U	0.98	4.30	ug/Kg
74-87-3	Chloromethane	0.98	U	0.98	4.30	ug/Kg
75-01-4	Vinyl Chloride	0.68	U	0.68	4.30	ug/Kg
74-83-9	Bromomethane	0.92	U	0.92	4.30	ug/Kg
75-00-3	Chloroethane	1.10	U	1.10	4.30	ug/Kg
75-69-4	Trichlorofluoromethane	1.00	U	1.00	4.30	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	0.91	U	0.91	4.30	ug/Kg
75-35-4	1,1-Dichloroethene	0.86	U	0.86	4.30	ug/Kg
67-64-1	Acetone	14.2	J	4.10	21.6	ug/Kg
75-15-0	Carbon Disulfide	3.10	J	0.91	4.30	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.63	U	0.63	4.30	ug/Kg
79-20-9	Methyl Acetate	1.30	U	1.30	4.30	ug/Kg
75-09-2	Methylene Chloride	3.50	J	3.00	8.60	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.74	U	0.74	4.30	ug/Kg
75-34-3	1,1-Dichloroethane	0.69	U	0.69	4.30	ug/Kg
110-82-7	Cyclohexane	0.68	U	0.68	4.30	ug/Kg
78-93-3	2-Butanone	5.60	U	5.60	21.6	ug/Kg
56-23-5	Carbon Tetrachloride	0.84	U	0.84	4.30	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.65	U	0.65	4.30	ug/Kg
74-97-5	Bromochloromethane	0.99	U	0.99	4.30	ug/Kg
67-66-3	Chloroform	0.72	U	0.72	4.30	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.80	U	0.80	4.30	ug/Kg
108-87-2	Methylcyclohexane	0.79	U	0.79	4.30	ug/Kg
71-43-2	Benzene	0.68	U	0.68	4.30	ug/Kg
107-06-2	1,2-Dichloroethane	0.68	U	0.68	4.30	ug/Kg
79-01-6	Trichloroethene	0.70	U	0.70	4.30	ug/Kg
78-87-5	1,2-Dichloropropane	0.79	U	0.79	4.30	ug/Kg
75-27-4	Bromodichloromethane	0.67	U	0.67	4.30	ug/Kg
108-10-1	4-Methyl-2-Pentanone	3.10	U	3.10	21.6	ug/Kg
108-88-3	Toluene	0.67	U	0.67	4.30	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	05/31/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	06/03/25
Client Sample ID:	B-202-SB02	SDG No.:	Q2198
Lab Sample ID:	Q2198-01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	71.9
Sample Wt/Vol:	8.06 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022552.D	1		06/04/25 15:47	VY060425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.56	U	0.56	4.30	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.53	U	0.53	4.30	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.79	U	0.79	4.30	ug/Kg
591-78-6	2-Hexanone	3.20	U	3.20	21.6	ug/Kg
124-48-1	Dibromochloromethane	0.75	U	0.75	4.30	ug/Kg
106-93-4	1,2-Dibromoethane	0.76	U	0.76	4.30	ug/Kg
127-18-4	Tetrachloroethene	0.91	U	0.91	4.30	ug/Kg
108-90-7	Chlorobenzene	0.79	U	0.79	4.30	ug/Kg
100-41-4	Ethyl Benzene	0.58	U	0.58	4.30	ug/Kg
179601-23-1	m/p-Xylenes	1.10	U	1.10	8.60	ug/Kg
95-47-6	o-Xylene	0.71	U	0.71	4.30	ug/Kg
100-42-5	Styrene	0.61	U	0.61	4.30	ug/Kg
75-25-2	Bromoform	0.74	U	0.74	4.30	ug/Kg
98-82-8	Isopropylbenzene	0.67	U	0.67	4.30	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.00	U	1.00	4.30	ug/Kg
541-73-1	1,3-Dichlorobenzene	1.50	U	1.50	4.30	ug/Kg
106-46-7	1,4-Dichlorobenzene	1.30	U	1.30	4.30	ug/Kg
95-50-1	1,2-Dichlorobenzene	1.30	U	1.30	4.30	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1.60	U	1.60	4.30	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	2.60	U	2.60	4.30	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	2.70	U	2.70	4.30	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	44.8		70 (63) - 130 (155)	90%	SPK: 50
1868-53-7	Dibromofluoromethane	48.7		70 (70) - 130 (134)	97%	SPK: 50
2037-26-5	Toluene-d8	49.2		70 (74) - 130 (123)	98%	SPK: 50
460-00-4	4-Bromofluorobenzene	40.0		70 (17) - 130 (146)	80%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	276000	7.707			
540-36-3	1,4-Difluorobenzene	492000	8.61			
3114-55-4	Chlorobenzene-d5	375000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	133000	13.34			
TENTATIVE IDENTIFIED COMPOUNDS						

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	05/31/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	06/03/25
Client Sample ID:	B-202-SB02	SDG No.:	Q2198
Lab Sample ID:	Q2198-01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	71.9
Sample Wt/Vol:	8.06 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022552.D	1		06/04/25 15:47	VY060425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
104-51-8	n-Butylbenzene	2.20	J		13.6	ug/Kg
000933-98-2	Benzene, 1-ethyl-2,3-dimethyl-	14.4	J		13.8	ug/Kg
002870-04-4	Benzene, 2-ethyl-1,3-dimethyl-	14.3	J		13.8	ug/Kg
001758-88-9	Benzene, 2-ethyl-1,4-dimethyl-	34.6	J		13.9	ug/Kg
062338-57-2	1,4-Cyclohexadiene, 3-ethenyl-1,2-	12.3	J		14.0	ug/Kg
000527-53-7	Benzene, 1,2,3,5-tetramethyl-	31.4	J		14.2	ug/Kg
000095-93-2	Benzene, 1,2,4,5-tetramethyl-	39.3	J		14.2	ug/Kg
002050-24-0	Benzene, 1,3-diethyl-5-methyl-	14.6	J		14.3	ug/Kg
000934-10-1	3-Phenylbut-1-ene	12.2	J		14.5	ug/Kg
000874-41-9	Benzene, 1-ethyl-2,4-dimethyl-	35.9	J		14.6	ug/Kg
004218-48-8	Benzene, 1-ethyl-4-(1-methylethyl)	21.1	J		14.9	ug/Kg

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	06/01/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	06/03/25
Client Sample ID:	B-207-SB02	SDG No.:	Q2198
Lab Sample ID:	Q2198-03	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	52.1
Sample Wt/Vol:	4.87 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022553.D	1		06/04/25 16:11	VY060425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	2.20	U	2.20	9.90	ug/Kg
74-87-3	Chloromethane	2.20	U	2.20	9.90	ug/Kg
75-01-4	Vinyl Chloride	1.60	U	1.60	9.90	ug/Kg
74-83-9	Bromomethane	2.10	U	2.10	9.90	ug/Kg
75-00-3	Chloroethane	2.50	U	2.50	9.90	ug/Kg
75-69-4	Trichlorofluoromethane	2.40	U	2.40	9.90	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	2.10	U	2.10	9.90	ug/Kg
75-35-4	1,1-Dichloroethene	2.00	U	2.00	9.90	ug/Kg
67-64-1	Acetone	71.8		9.30	49.3	ug/Kg
75-15-0	Carbon Disulfide	3.40	J	2.10	9.90	ug/Kg
1634-04-4	Methyl tert-butyl Ether	1.40	U	1.40	9.90	ug/Kg
79-20-9	Methyl Acetate	3.00	U	3.00	9.90	ug/Kg
75-09-2	Methylene Chloride	7.00	U	7.00	19.7	ug/Kg
156-60-5	trans-1,2-Dichloroethene	1.70	U	1.70	9.90	ug/Kg
75-34-3	1,1-Dichloroethane	1.60	U	1.60	9.90	ug/Kg
110-82-7	Cyclohexane	1.60	U	1.60	9.90	ug/Kg
78-93-3	2-Butanone	14.8	J	12.9	49.3	ug/Kg
56-23-5	Carbon Tetrachloride	1.90	U	1.90	9.90	ug/Kg
156-59-2	cis-1,2-Dichloroethene	1.50	U	1.50	9.90	ug/Kg
74-97-5	Bromochloromethane	2.30	U	2.30	9.90	ug/Kg
67-66-3	Chloroform	1.70	U	1.70	9.90	ug/Kg
71-55-6	1,1,1-Trichloroethane	1.80	U	1.80	9.90	ug/Kg
108-87-2	Methylcyclohexane	1.80	U	1.80	9.90	ug/Kg
71-43-2	Benzene	1.60	U	1.60	9.90	ug/Kg
107-06-2	1,2-Dichloroethane	1.60	U	1.60	9.90	ug/Kg
79-01-6	Trichloroethene	1.60	U	1.60	9.90	ug/Kg
78-87-5	1,2-Dichloropropane	1.80	U	1.80	9.90	ug/Kg
75-27-4	Bromodichloromethane	1.50	U	1.50	9.90	ug/Kg
108-10-1	4-Methyl-2-Pentanone	7.10	U	7.10	49.3	ug/Kg
108-88-3	Toluene	1.50	U	1.50	9.90	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	06/01/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	06/03/25
Client Sample ID:	B-207-SB02	SDG No.:	Q2198
Lab Sample ID:	Q2198-03	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	52.1
Sample Wt/Vol:	4.87 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022553.D	1		06/04/25 16:11	VY060425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	1.30	U	1.30	9.90	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	1.20	U	1.20	9.90	ug/Kg
79-00-5	1,1,2-Trichloroethane	1.80	U	1.80	9.90	ug/Kg
591-78-6	2-Hexanone	7.30	U	7.30	49.3	ug/Kg
124-48-1	Dibromochloromethane	1.70	U	1.70	9.90	ug/Kg
106-93-4	1,2-Dibromoethane	1.70	U	1.70	9.90	ug/Kg
127-18-4	Tetrachloroethene	2.10	U	2.10	9.90	ug/Kg
108-90-7	Chlorobenzene	1.80	U	1.80	9.90	ug/Kg
100-41-4	Ethyl Benzene	1.30	U	1.30	9.90	ug/Kg
179601-23-1	m/p-Xylenes	2.40	U	2.40	19.7	ug/Kg
95-47-6	o-Xylene	1.60	U	1.60	9.90	ug/Kg
100-42-5	Styrene	1.40	U	1.40	9.90	ug/Kg
75-25-2	Bromoform	1.70	U	1.70	9.90	ug/Kg
98-82-8	Isopropylbenzene	1.50	U	1.50	9.90	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	2.40	U	2.40	9.90	ug/Kg
541-73-1	1,3-Dichlorobenzene	3.40	U	3.40	9.90	ug/Kg
106-46-7	1,4-Dichlorobenzene	3.10	U	3.10	9.90	ug/Kg
95-50-1	1,2-Dichlorobenzene	2.90	U	2.90	9.90	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	3.60	U	3.60	9.90	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	5.90	U	5.90	9.90	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	6.30	U	6.30	9.90	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	51.4		70 (63) - 130 (155)	103%	SPK: 50
1868-53-7	Dibromofluoromethane	50.7		70 (70) - 130 (134)	101%	SPK: 50
2037-26-5	Toluene-d8	49.5		70 (74) - 130 (123)	99%	SPK: 50
460-00-4	4-Bromofluorobenzene	37.6		70 (17) - 130 (146)	75%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	232000	7.707			
540-36-3	1,4-Difluorobenzene	423000	8.609			
3114-55-4	Chlorobenzene-d5	325000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	102000	13.34			

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	06/01/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	06/03/25
Client Sample ID:	B-207-SB02	SDG No.:	Q2198
Lab Sample ID:	Q2198-03	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	52.1
Sample Wt/Vol:	4.87 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022553.D	1		06/04/25 16:11	VY060425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	05/31/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	06/03/25
Client Sample ID:	B-202-GW01	SDG No.:	Q2198
Lab Sample ID:	Q2198-05	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX046506.D	1		06/04/25 17:25	VX060425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	0.22	U	0.22	1.00	ug/L
74-87-3	Chloromethane	0.32	U	0.32	1.00	ug/L
75-01-4	Vinyl Chloride	0.26	U	0.26	1.00	ug/L
74-83-9	Bromomethane	1.40	U	1.40	5.00	ug/L
75-00-3	Chloroethane	0.47	U	0.47	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.33	U	0.33	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.25	U	0.25	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.23	U	0.23	1.00	ug/L
67-64-1	Acetone	6.60		1.50	5.00	ug/L
75-15-0	Carbon Disulfide	0.21	U	0.21	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.16	U	0.16	1.00	ug/L
79-20-9	Methyl Acetate	0.27	UQ	0.27	1.00	ug/L
75-09-2	Methylene Chloride	0.28	U	0.28	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.23	U	0.23	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.23	U	0.23	1.00	ug/L
110-82-7	Cyclohexane	1.50	U	1.50	5.00	ug/L
78-93-3	2-Butanone	0.98	U	0.98	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.25	U	0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.19	U	0.19	1.00	ug/L
74-97-5	Bromochloromethane	0.22	U	0.22	1.00	ug/L
67-66-3	Chloroform	0.25	U	0.25	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.20	U	0.20	1.00	ug/L
108-87-2	Methylcyclohexane	0.16	U	0.16	1.00	ug/L
71-43-2	Benzene	0.15	U	0.15	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.22	U	0.22	1.00	ug/L
79-01-6	Trichloroethene	0.090	U	0.090	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.20	U	0.20	1.00	ug/L
75-27-4	Bromodichloromethane	0.22	U	0.22	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	0.68	U	0.68	5.00	ug/L
108-88-3	Toluene	1.20		0.14	1.00	ug/L

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Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	05/31/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	06/03/25
Client Sample ID:	B-202-GW01	SDG No.:	Q2198
Lab Sample ID:	Q2198-05	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX046506.D	1		06/04/25 17:25	VX060425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.17	U	0.17	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.16	U	0.16	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.21	U	0.21	1.00	ug/L
591-78-6	2-Hexanone	0.89	U	0.89	5.00	ug/L
124-48-1	Dibromochloromethane	0.18	U	0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.15	U	0.15	1.00	ug/L
127-18-4	Tetrachloroethene	0.23	U	0.23	1.00	ug/L
108-90-7	Chlorobenzene	0.12	U	0.12	1.00	ug/L
100-41-4	Ethyl Benzene	0.13	U	0.13	1.00	ug/L
179601-23-1	m/p-Xylenes	2.00		0.24	2.00	ug/L
95-47-6	o-Xylene	0.12	U	0.12	1.00	ug/L
100-42-5	Styrene	0.15	U	0.15	1.00	ug/L
75-25-2	Bromoform	0.19	U	0.19	1.00	ug/L
98-82-8	Isopropylbenzene	0.12	U	0.12	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.26	U	0.26	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.16	U	0.16	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.19	U	0.19	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.16	U	0.16	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.53	U	0.53	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.20	U	0.20	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.20	U	0.20	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	52.2		70 (74) - 130 (125)	104%	SPK: 50
1868-53-7	Dibromofluoromethane	50.9		70 (75) - 130 (124)	102%	SPK: 50
2037-26-5	Toluene-d8	50.2		70 (86) - 130 (113)	100%	SPK: 50
460-00-4	4-Bromofluorobenzene	52.3		70 (77) - 130 (121)	105%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	60400	5.55			
540-36-3	1,4-Difluorobenzene	119000	6.763			
3114-55-4	Chlorobenzene-d5	111000	10.055			
3855-82-1	1,4-Dichlorobenzene-d4	48900	12.018			
TENTATIVE IDENTIFIED COMPOUNDS						

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	05/31/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	06/03/25
Client Sample ID:	B-202-GW01	SDG No.:	Q2198
Lab Sample ID:	Q2198-05	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX046506.D	1		06/04/25 17:25	VX060425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
007446-09-5	Sulfur dioxide	6.20	J		1.25	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.39	J		11.8	ug/L
000527-84-4	o-Cymene	5.60	J		12.6	ug/L
000488-23-3	Benzene, 1,2,3,4-tetramethyl-	5.50	J		12.9	ug/L
000095-93-2	Benzene, 1,2,4,5-tetramethyl-	9.30	J		13.0	ug/L
000824-90-8	1-Phenyl-1-butene	8.90	J		13.3	ug/L

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

QC SUMMARY

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Surrogate Summary

SDG No.: Q2198

Client: Portal Partners Tri-Venture

Analytical Method: SW8260D

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits Low	Limits High
Q2198-01	B-202-SB02	1,2-Dichloroethane-d4	50	44.8	90	70 (63)	130 (155)
		Dibromofluoromethane	50	48.7	97	70 (70)	130 (134)
		Toluene-d8	50	49.1	98	70 (74)	130 (123)
		4-Bromofluorobenzene	50	40.0	80	70 (17)	130 (146)
Q2198-03	B-207-SB02	1,2-Dichloroethane-d4	50	51.4	103	70 (63)	130 (155)
		Dibromofluoromethane	50	50.7	101	70 (70)	130 (134)
		Toluene-d8	50	49.5	99	70 (74)	130 (123)
		4-Bromofluorobenzene	50	37.6	75	70 (17)	130 (146)
VY0604SBL01	VY0604SBL01	1,2-Dichloroethane-d4	50	52.7	105	70 (63)	130 (155)
		Dibromofluoromethane	50	50.7	101	70 (70)	130 (134)
		Toluene-d8	50	49.3	99	70 (74)	130 (123)
		4-Bromofluorobenzene	50	41.7	83	70 (17)	130 (146)
VY0604SBS01	VY0604SBS01	1,2-Dichloroethane-d4	50	53.9	108	70 (63)	130 (155)
		Dibromofluoromethane	50	53.3	107	70 (70)	130 (134)
		Toluene-d8	50	53.4	107	70 (74)	130 (123)
		4-Bromofluorobenzene	50	52.0	104	70 (17)	130 (146)
VY0604SBSD01	VY0604SBSD01	1,2-Dichloroethane-d4	50	52.1	104	70 (63)	130 (155)
		Dibromofluoromethane	50	50.5	101	70 (70)	130 (134)
		Toluene-d8	50	50.4	101	70 (74)	130 (123)
		4-Bromofluorobenzene	50	49.0	98	70 (17)	130 (146)

( ) = LABORATORY INHOUSE LIMIT

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Surrogate Summary

SDG No.: Q2198

Client: Portal Partners Tri-Venture

Analytical Method: SW8260-Low

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits Low	Limits High
Q2198-05	B-202-GW01	1,2-Dichloroethane-d4	50	52.2	104	70 (74)	130 (125)
		Dibromofluoromethane	50	50.9	102	70 (75)	130 (124)
		Toluene-d8	50	50.2	100	70 (86)	130 (113)
		4-Bromofluorobenzene	50	52.3	105	70 (77)	130 (121)
VX0604WBL01	VX0604WBL01	1,2-Dichloroethane-d4	50	53.4	107	70 (74)	130 (125)
		Dibromofluoromethane	50	50.4	101	70 (75)	130 (124)
		Toluene-d8	50	50.4	101	70 (86)	130 (113)
		4-Bromofluorobenzene	50	53.1	106	70 (77)	130 (121)
VX0604WBS01	VX0604WBS01	1,2-Dichloroethane-d4	50	50.1	100	70 (74)	130 (125)
		Dibromofluoromethane	50	51.3	103	70 (75)	130 (124)
		Toluene-d8	50	47.3	95	70 (86)	130 (113)
		4-Bromofluorobenzene	50	49.1	98	70 (77)	130 (121)
VX0604WBSD0	VX0604WBSD01	1,2-Dichloroethane-d4	50	51.7	103	70 (74)	130 (125)
		Dibromofluoromethane	50	52.1	104	70 (75)	130 (124)
		Toluene-d8	50	49.0	98	70 (86)	130 (113)
		4-Bromofluorobenzene	50	51.4	103	70 (77)	130 (121)

( ) = LABORATORY INHOUSE LIMIT

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2198

Client: Portal Partners Tri-Venture

Analytical Method: SW8260-Low **Datafile :** VX046491.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VX0604WBS01	Dichlorodifluoromethane	20	16.0	ug/L	80			40 (69)	160 (116)	
	Chloromethane	20	15.1	ug/L	76			40 (65)	160 (116)	
	Vinyl chloride	20	15.5	ug/L	78			70 (65)	130 (117)	
	Bromomethane	20	16.1	ug/L	81			40 (58)	160 (125)	
	Chloroethane	20	17.1	ug/L	86			40 (56)	160 (128)	
	Trichlorofluoromethane	20	18.0	ug/L	90			40 (73)	160 (115)	
	1,1,2-Trichlorotrifluoroethane	20	18.3	ug/L	92			70 (80)	130 (112)	
	1,1-Dichloroethene	20	17.2	ug/L	86			70 (74)	130 (110)	
	Acetone	100	110	ug/L	110			40 (60)	160 (125)	
	Carbon disulfide	20	12.6	ug/L	63			40 (64)	160 (112)	
	Methyl tert-butyl Ether	20	20.6	ug/L	103			70 (78)	130 (114)	
	Methyl Acetate	20	27.6	ug/L	138		*	70 (67)	130 (125)	
	Methylene Chloride	20	17.8	ug/L	89			70 (72)	130 (114)	
	trans-1,2-Dichloroethene	20	17.5	ug/L	88			70 (75)	130 (108)	
	1,1-Dichloroethane	20	19.6	ug/L	98			70 (78)	130 (112)	
	Cyclohexane	20	16.8	ug/L	84			70 (75)	130 (110)	
	2-Butanone	100	110	ug/L	110			40 (65)	160 (122)	
	Carbon Tetrachloride	20	18.4	ug/L	92			70 (77)	130 (113)	
	cis-1,2-Dichloroethene	20	19.6	ug/L	98			70 (77)	130 (110)	
	Bromochloromethane	20	21.9	ug/L	110			70 (70)	130 (124)	
	Chloroform	20	20.0	ug/L	100			70 (79)	130 (113)	
	1,1,1-Trichloroethane	20	19.4	ug/L	97			70 (80)	130 (108)	
	Methylcyclohexane	20	16.1	ug/L	81			70 (72)	130 (115)	
	Benzene	20	18.6	ug/L	93			70 (82)	130 (109)	
	1,2-Dichloroethane	20	19.8	ug/L	99			70 (80)	130 (115)	
	Trichloroethene	20	18.4	ug/L	92			70 (77)	130 (113)	
	1,2-Dichloropropane	20	19.8	ug/L	99			70 (83)	130 (111)	
	Bromodichloromethane	20	19.6	ug/L	98			70 (83)	130 (110)	
	4-Methyl-2-Pentanone	100	110	ug/L	110			40 (74)	160 (118)	
	Toluene	20	19.1	ug/L	96			70 (82)	130 (110)	
	t-1,3-Dichloropropene	20	19.1	ug/L	96			70 (79)	130 (110)	
	cis-1,3-Dichloropropene	20	19.4	ug/L	97			70 (82)	130 (110)	
	1,1,2-Trichloroethane	20	20.5	ug/L	103			70 (83)	130 (112)	
	2-Hexanone	100	110	ug/L	110			40 (73)	160 (117)	
	Dibromochloromethane	20	20.5	ug/L	103			70 (82)	130 (110)	
	1,2-Dibromoethane	20	20.1	ug/L	101			70 (81)	130 (110)	
	Tetrachloroethene	20	19.0	ug/L	95			70 (67)	130 (123)	
	Chlorobenzene	20	19.5	ug/L	98			70 (82)	130 (109)	
	Ethyl Benzene	20	19.6	ug/L	98			70 (83)	130 (109)	
	m/p-Xylenes	40	39.8	ug/L	100			70 (82)	130 (110)	
	o-Xylene	20	20.6	ug/L	103			70 (83)	130 (109)	
	Styrene	20	20.5	ug/L	103			70 (80)	130 (111)	
	Bromoform	20	20.0	ug/L	100			70 (79)	130 (109)	
	Isopropylbenzene	20	21.2	ug/L	106			70 (83)	130 (112)	
	1,1,2,2-Tetrachloroethane	20	21.3	ug/L	106			70 (76)	130 (118)	
	1,3-Dichlorobenzene	20	20.0	ug/L	100			70 (82)	130 (108)	
	1,4-Dichlorobenzene	20	20.5	ug/L	103			70 (82)	130 (107)	
	1,2-Dichlorobenzene	20	21.0	ug/L	105			70 (82)	130 (109)	

( ) = LABORATORY INHOUSE LIMIT

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2198

Client: Portal Partners Tri-Venture

Analytical Method: SW8260-Low **Datafile :** VX046491.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VX0604WBS01	1,2-Dibromo-3-Chloropropane	20	23.8	ug/L	119			40 (68)	160 (112)	
	1,2,4-Trichlorobenzene	20	21.0	ug/L	105			70 (75)	130 (113)	
	1,2,3-Trichlorobenzene	20	20.5	ug/L	103			70 (76)	130 (114)	

( ) = LABORATORY INHOUSE LIMIT

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2198

Client: Portal Partners Tri-Venture

Analytical Method: SW8260-Low **Datafile :** VX046497.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	Limits RPD
VX0604WBSD01	Dichlorodifluoromethane	20	19.0	ug/L	95	17		40 (69)	160 (116)	20 (20)
	Chloromethane	20	18.9	ug/L	95	22	*	40 (65)	160 (116)	20 (20)
	Vinyl chloride	20	18.8	ug/L	94	19		70 (65)	130 (117)	20 (20)
	Bromomethane	20	17.0	ug/L	85	5		40 (58)	160 (125)	20 (20)
	Chloroethane	20	24.8	ug/L	124	36	*	40 (56)	160 (128)	20 (20)
	Trichlorofluoromethane	20	20.8	ug/L	104	14		40 (73)	160 (115)	20 (20)
	1,1,2-Trichlorotrifluoroethane	20	20.2	ug/L	101	9		70 (80)	130 (112)	20 (20)
	1,1-Dichloroethene	20	20.3	ug/L	102	17		70 (74)	130 (110)	20 (20)
	Acetone	100	120	ug/L	120	9		40 (60)	160 (125)	20 (20)
	Carbon disulfide	20	16.8	ug/L	84	29	*	40 (64)	160 (112)	20 (20)
	Methyl tert-butyl Ether	20	23.4	ug/L	117	13		70 (78)	130 (114)	20 (20)
	Methyl Acetate	20	31.2	ug/L	156	12	*	70 (67)	130 (125)	20 (20)
	Methylene Chloride	20	20.6	ug/L	103	15		70 (72)	130 (114)	20 (20)
	trans-1,2-Dichloroethene	20	20.4	ug/L	102	15		70 (75)	130 (108)	20 (20)
	1,1-Dichloroethane	20	22.2	ug/L	111	12		70 (78)	130 (112)	20 (20)
	Cyclohexane	20	21.1	ug/L	106	23	*	70 (75)	130 (110)	20 (20)
	2-Butanone	100	120	ug/L	120	9		40 (65)	160 (122)	20 (20)
	Carbon Tetrachloride	20	20.4	ug/L	102	10		70 (77)	130 (113)	20 (20)
	cis-1,2-Dichloroethene	20	22.0	ug/L	110	12		70 (77)	130 (110)	20 (20)
	Bromochloromethane	20	23.0	ug/L	115	4		70 (70)	130 (124)	20 (20)
	Chloroform	20	22.6	ug/L	113	12		70 (79)	130 (113)	20 (20)
	1,1,1-Trichloroethane	20	22.5	ug/L	113	15		70 (80)	130 (108)	20 (20)
	Methylcyclohexane	20	19.9	ug/L	100	21	*	70 (72)	130 (115)	20 (20)
	Benzene	20	21.4	ug/L	107	14		70 (82)	130 (109)	20 (20)
	1,2-Dichloroethane	20	21.6	ug/L	108	9		70 (80)	130 (115)	20 (20)
	Trichloroethene	20	21.3	ug/L	106	14		70 (77)	130 (113)	20 (20)
	1,2-Dichloropropane	20	22.1	ug/L	111	11		70 (83)	130 (111)	20 (20)
	Bromodichloromethane	20	21.7	ug/L	109	11		70 (83)	130 (110)	20 (20)
	4-Methyl-2-Pentanone	100	120	ug/L	120	9		40 (74)	160 (118)	20 (20)
	Toluene	20	21.7	ug/L	109	13		70 (82)	130 (110)	20 (20)
	t-1,3-Dichloropropene	20	20.7	ug/L	104	8		70 (79)	130 (110)	20 (20)
	cis-1,3-Dichloropropene	20	21.4	ug/L	107	10		70 (82)	130 (110)	20 (20)
	1,1,2-Trichloroethane	20	22.2	ug/L	111	7		70 (83)	130 (112)	20 (20)
	2-Hexanone	100	120	ug/L	120	9		40 (73)	160 (117)	20 (20)
	Dibromochloromethane	20	21.6	ug/L	108	5		70 (82)	130 (110)	20 (20)
	1,2-Dibromoethane	20	21.8	ug/L	109	8		70 (81)	130 (110)	20 (20)
	Tetrachloroethene	20	20.6	ug/L	103	8		70 (67)	130 (123)	20 (20)
	Chlorobenzene	20	21.3	ug/L	106	8		70 (82)	130 (109)	20 (20)
	Ethyl Benzene	20	22.0	ug/L	110	12		70 (83)	130 (109)	20 (20)
	m/p-Xylenes	40	43.0	ug/L	108	8		70 (82)	130 (110)	20 (20)
	o-Xylene	20	22.4	ug/L	112	8		70 (83)	130 (109)	20 (20)
	Styrene	20	22.4	ug/L	112	8		70 (80)	130 (111)	20 (20)
	Bromoform	20	20.6	ug/L	103	3		70 (79)	130 (109)	20 (20)
	Isopropylbenzene	20	22.6	ug/L	113	6		70 (83)	130 (112)	20 (20)
	1,1,2,2-Tetrachloroethane	20	22.5	ug/L	113	6		70 (76)	130 (118)	20 (20)
	1,3-Dichlorobenzene	20	21.7	ug/L	109	9		70 (82)	130 (108)	20 (20)
	1,4-Dichlorobenzene	20	21.0	ug/L	105	2		70 (82)	130 (107)	20 (20)
	1,2-Dichlorobenzene	20	22.2	ug/L	111	6		70 (82)	130 (109)	20 (20)

( ) = LABORATORY INHOUSE LIMIT

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2198

Client: Portal Partners Tri-Venture

Analytical Method: SW8260-Low **Datafile :** VX046497.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	Limits RPD
VX0604WBSD01	1,2-Dibromo-3-Chloropropane	20	23.8	ug/L	119	0		40 (68)	160 (112)	20 (20)
	1,2,4-Trichlorobenzene	20	21.7	ug/L	109	4		70 (75)	130 (113)	20 (20)
	1,2,3-Trichlorobenzene	20	21.6	ug/L	108	5		70 (76)	130 (114)	20 (20)

( ) = LABORATORY INHOUSE LIMIT

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2198

Client: Portal Partners Tri-Venture

Analytical Method: SW8260D **Datafile :** VY022540.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VY0604SBS01	Dichlorodifluoromethane	20	22.1	ug/Kg	111			40 (64)	160 (136)	
	Chloromethane	20	18.8	ug/Kg	94			40 (52)	160 (151)	
	Vinyl chloride	20	22.0	ug/Kg	110			70 (56)	130 (148)	
	Bromomethane	20	21.2	ug/Kg	106			40 (58)	160 (141)	
	Chloroethane	20	22.5	ug/Kg	113			40 (69)	160 (130)	
	Trichlorofluoromethane	20	23.5	ug/Kg	117			40 (69)	160 (134)	
	1,1,2-Trichlorotrifluoroethane	20	20.6	ug/Kg	103			70 (81)	130 (123)	
	1,1-Dichloroethene	20	21.1	ug/Kg	106			70 (79)	130 (121)	
	Acetone	100	87.2	ug/Kg	87			40 (40)	160 (171)	
	Carbon disulfide	20	20.5	ug/Kg	103			40 (59)	160 (130)	
	Methyl tert-butyl Ether	20	20.2	ug/Kg	101			70 (77)	130 (129)	
	Methyl Acetate	20	20.0	ug/Kg	100			70 (69)	130 (149)	
	Methylene Chloride	20	19.1	ug/Kg	96			70 (72)	130 (131)	
	trans-1,2-Dichloroethene	20	20.7	ug/Kg	104			70 (80)	130 (123)	
	1,1-Dichloroethane	20	21.2	ug/Kg	106			70 (82)	130 (123)	
	Cyclohexane	20	19.6	ug/Kg	98			70 (76)	130 (122)	
	2-Butanone	100	93.6	ug/Kg	94			40 (69)	160 (131)	
	Carbon Tetrachloride	20	20.0	ug/Kg	100			70 (76)	130 (129)	
	cis-1,2-Dichloroethene	20	21.2	ug/Kg	106			70 (82)	130 (123)	
	Bromochloromethane	20	21.0	ug/Kg	105			70 (80)	130 (127)	
	Chloroform	20	21.1	ug/Kg	106			70 (82)	130 (125)	
	1,1,1-Trichloroethane	20	21.2	ug/Kg	106			70 (80)	130 (126)	
	Methylcyclohexane	20	20.0	ug/Kg	100			70 (77)	130 (123)	
	Benzene	20	20.8	ug/Kg	104			70 (84)	130 (121)	
	1,2-Dichloroethane	20	20.1	ug/Kg	101			70 (81)	130 (126)	
	Trichloroethene	20	20.3	ug/Kg	102			70 (83)	130 (122)	
	1,2-Dichloropropane	20	21.1	ug/Kg	106			70 (83)	130 (122)	
	Bromodichloromethane	20	20.9	ug/Kg	104			70 (82)	130 (123)	
	4-Methyl-2-Pentanone	100	93.5	ug/Kg	94			40 (70)	160 (135)	
	Toluene	20	20.3	ug/Kg	102			70 (83)	130 (122)	
	t-1,3-Dichloropropene	20	19.6	ug/Kg	98			70 (78)	130 (124)	
	cis-1,3-Dichloropropene	20	20.3	ug/Kg	102			70 (81)	130 (122)	
	1,1,2-Trichloroethane	20	19.3	ug/Kg	97			70 (82)	130 (125)	
	2-Hexanone	100	91.6	ug/Kg	92			40 (66)	160 (138)	
	Dibromochloromethane	20	19.7	ug/Kg	99			70 (79)	130 (125)	
	1,2-Dibromoethane	20	20.5	ug/Kg	103			70 (80)	130 (125)	
	Tetrachloroethene	20	20.9	ug/Kg	104			70 (83)	130 (125)	
	Chlorobenzene	20	20.4	ug/Kg	102			70 (84)	130 (122)	
	Ethyl Benzene	20	19.7	ug/Kg	99			70 (82)	130 (124)	
	m/p-Xylenes	40	38.9	ug/Kg	97			70 (83)	130 (124)	
	o-Xylene	20	19.8	ug/Kg	99			70 (83)	130 (123)	
	Styrene	20	19.4	ug/Kg	97			70 (82)	130 (124)	
	Bromoform	20	18.6	ug/Kg	93			70 (75)	130 (127)	
	Isopropylbenzene	20	19.8	ug/Kg	99			70 (82)	130 (124)	
	1,1,2,2-Tetrachloroethane	20	18.6	ug/Kg	93			70 (77)	130 (127)	
	1,3-Dichlorobenzene	20	19.9	ug/Kg	100			70 (83)	130 (122)	
	1,4-Dichlorobenzene	20	20.0	ug/Kg	100			70 (84)	130 (121)	
	1,2-Dichlorobenzene	20	20.0	ug/Kg	100			70 (83)	130 (124)	

( ) = LABORATORY INHOUSE LIMIT

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2198

Client: Portal Partners Tri-Venture

Analytical Method: SW8260D **Datafile :** VY022540.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	Limits RPD
VY0604SBS01	1,2-Dibromo-3-Chloropropane	20	19.5	ug/Kg	98			40 (66)	160 (134)	
	1,2,4-Trichlorobenzene	20	21.1	ug/Kg	106			70 (78)	130 (127)	
	1,2,3-Trichlorobenzene	20	20.5	ug/Kg	103			70 (70)	130 (137)	

( ) = LABORATORY INHOUSE LIMIT

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2198

Client: Portal Partners Tri-Venture

Analytical Method: SW8260D **Datafile :** VY022541.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	Limits RPD
VY0604SBSD01	Dichlorodifluoromethane	20	22.0	ug/Kg	110	1		40 (64)	160 (136)	30 (20)
	Chloromethane	20	18.7	ug/Kg	94	0		40 (52)	160 (151)	30 (20)
	Vinyl chloride	20	22.6	ug/Kg	113	3		70 (56)	130 (148)	30 (20)
	Bromomethane	20	21.9	ug/Kg	110	4		40 (58)	160 (141)	30 (20)
	Chloroethane	20	23.1	ug/Kg	116	3		40 (69)	160 (130)	30 (20)
	Trichlorofluoromethane	20	24.1	ug/Kg	121	3		40 (69)	160 (134)	30 (20)
	1,1,2-Trichlorotrifluoroethane	20	21.1	ug/Kg	106	3		70 (81)	130 (123)	30 (20)
	1,1-Dichloroethene	20	21.1	ug/Kg	106	0		70 (79)	130 (121)	30 (20)
	Acetone	100	99.4	ug/Kg	99	13		40 (40)	160 (171)	30 (20)
	Carbon disulfide	20	21.1	ug/Kg	106	3		40 (59)	160 (130)	30 (20)
	Methyl tert-butyl Ether	20	21.6	ug/Kg	108	7		70 (77)	130 (129)	30 (20)
	Methyl Acetate	20	22.1	ug/Kg	111	10		70 (69)	130 (149)	30 (20)
	Methylene Chloride	20	19.8	ug/Kg	99	3		70 (72)	130 (131)	30 (20)
	trans-1,2-Dichloroethene	20	21.5	ug/Kg	108	4		70 (80)	130 (123)	30 (20)
	1,1-Dichloroethane	20	21.6	ug/Kg	108	2		70 (82)	130 (123)	30 (20)
	Cyclohexane	20	20.1	ug/Kg	101	3		70 (76)	130 (122)	30 (20)
	2-Butanone	100	100	ug/Kg	100	6		40 (69)	160 (131)	30 (20)
	Carbon Tetrachloride	20	20.1	ug/Kg	101	1		70 (76)	130 (129)	30 (20)
	cis-1,2-Dichloroethene	20	21.4	ug/Kg	107	1		70 (82)	130 (123)	30 (20)
	Bromochloromethane	20	20.2	ug/Kg	101	4		70 (80)	130 (127)	30 (20)
	Chloroform	20	21.6	ug/Kg	108	2		70 (82)	130 (125)	30 (20)
	1,1,1-Trichloroethane	20	21.4	ug/Kg	107	1		70 (80)	130 (126)	30 (20)
	Methylcyclohexane	20	19.7	ug/Kg	99	1		70 (77)	130 (123)	30 (20)
	Benzene	20	20.9	ug/Kg	104	0		70 (84)	130 (121)	30 (20)
	1,2-Dichloroethane	20	20.9	ug/Kg	104	3		70 (81)	130 (126)	30 (20)
	Trichloroethene	20	20.4	ug/Kg	102	0		70 (83)	130 (122)	30 (20)
	1,2-Dichloropropane	20	21.2	ug/Kg	106	0		70 (83)	130 (122)	30 (20)
	Bromodichloromethane	20	20.9	ug/Kg	104	0		70 (82)	130 (123)	30 (20)
	4-Methyl-2-Pentanone	100	110	ug/Kg	110	16		40 (70)	160 (135)	30 (20)
	Toluene	20	20.6	ug/Kg	103	1		70 (83)	130 (122)	30 (20)
	t-1,3-Dichloropropene	20	20.3	ug/Kg	102	4		70 (78)	130 (124)	30 (20)
	cis-1,3-Dichloropropene	20	20.8	ug/Kg	104	2		70 (81)	130 (122)	30 (20)
	1,1,2-Trichloroethane	20	21.1	ug/Kg	106	9		70 (82)	130 (125)	30 (20)
	2-Hexanone	100	100	ug/Kg	100	8		40 (66)	160 (138)	30 (20)
	Dibromochloromethane	20	20.1	ug/Kg	101	2		70 (79)	130 (125)	30 (20)
	1,2-Dibromoethane	20	20.6	ug/Kg	103	0		70 (80)	130 (125)	30 (20)
	Tetrachloroethene	20	21.9	ug/Kg	110	6		70 (83)	130 (125)	30 (20)
	Chlorobenzene	20	21.0	ug/Kg	105	3		70 (84)	130 (122)	30 (20)
	Ethyl Benzene	20	20.2	ug/Kg	101	2		70 (82)	130 (124)	30 (20)
	m/p-Xylenes	40	40.4	ug/Kg	101	4		70 (83)	130 (124)	30 (20)
	o-Xylene	20	20.3	ug/Kg	102	3		70 (83)	130 (123)	30 (20)
	Styrene	20	20.3	ug/Kg	102	5		70 (82)	130 (124)	30 (20)
	Bromoform	20	19.5	ug/Kg	98	5		70 (75)	130 (127)	30 (20)
	Isopropylbenzene	20	20.3	ug/Kg	102	3		70 (82)	130 (124)	30 (20)
	1,1,2,2-Tetrachloroethane	20	21.4	ug/Kg	107	14		70 (77)	130 (127)	30 (20)
	1,3-Dichlorobenzene	20	20.6	ug/Kg	103	3		70 (83)	130 (122)	30 (20)
	1,4-Dichlorobenzene	20	21.0	ug/Kg	105	5		70 (84)	130 (121)	30 (20)
	1,2-Dichlorobenzene	20	21.1	ug/Kg	106	6		70 (83)	130 (124)	30 (20)

( ) = LABORATORY INHOUSE LIMIT

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2198

Client: Portal Partners Tri-Venture

Analytical Method: SW8260D **Datafile :** VY022541.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	Limits RPD
VY0604SBSD01	1,2-Dibromo-3-Chloropropane	20	22.8	ug/Kg	114	15		40 (66)	160 (134)	30 (20)
	1,2,4-Trichlorobenzene	20	21.2	ug/Kg	106	0		70 (78)	130 (127)	30 (20)
	1,2,3-Trichlorobenzene	20	21.7	ug/Kg	109	6		70 (70)	130 (137)	30 (20)

( ) = LABORATORY INHOUSE LIMIT

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VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VX0604WBL01

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q2198 SAS No.: Q2198 SDG NO.: Q2198

Lab File ID: VX046490.D Lab Sample ID: VX0604WBL01

Date Analyzed: 06/04/2025 Time Analyzed: 11:04

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

Instrument ID: MSVOA_X

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VX0604WBS01	VX0604WBS01	VX046491.D	06/04/2025
VX0604WBSD01	VX0604WBSD01	VX046497.D	06/04/2025
B-202-GW01	Q2198-05	VX046506.D	06/04/2025

COMMENTS:

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VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VY0604SBL01

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q2198 SAS No.: Q2198 SDG NO.: Q2198

Lab File ID: VY022539.D Lab Sample ID: VY0604SBL01

Date Analyzed: 06/04/2025 Time Analyzed: 10:24

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

Instrument ID: MSVOA_Y

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VY0604SBS01	VY0604SBS01	VY022540.D	06/04/2025
VY0604SBSD01	VY0604SBSD01	VY022541.D	06/04/2025
B-202-SB02	Q2198-01	VY022552.D	06/04/2025
B-207-SB02	Q2198-03	VY022553.D	06/04/2025

COMMENTS:

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q2198 SAS No.: Q2198 SDG NO.: Q2198

Lab File ID: VX046038.D BFB Injection Date: 05/05/2025

Instrument ID: MSVOA_X BFB Injection Time: 09:37

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	22.1
75	30.0 - 60.0% of mass 95	56.2
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.4
173	Less than 2.0% of mass 174	0.5 (0.7) 1
174	50.0 - 100.0% of mass 95	68.8
175	5.0 - 9.0% of mass 174	5 (7.3) 1
176	95.0 - 101.0% of mass 174	66.7 (97) 1
177	5.0 - 9.0% of mass 176	4.6 (6.9) 2

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

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDICC020	VSTDICC020	VX046041.D	05/05/2025	11:35
VSTDICCC050	VSTDICCC050	VX046042.D	05/05/2025	11:58
VSTDICC100	VSTDICC100	VX046043.D	05/05/2025	12:21
VSTDICC150	VSTDICC150	VX046044.D	05/05/2025	12:45
VSTDICC005	VSTDICC005	VX046046.D	05/05/2025	16:04
VSTDICC001	VSTDICC001	VX046047.D	05/05/2025	16:27

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q2198 SAS No.: Q2198 SDG NO.: Q2198

Lab File ID: VX046487.D BFB Injection Date: 06/04/2025

Instrument ID: MSVOA_X BFB Injection Time: 09:43

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	22
75	30.0 - 60.0% of mass 95	55.2
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.9
173	Less than 2.0% of mass 174	0.8 (1.2) 1
174	50.0 - 100.0% of mass 95	68.4
175	5.0 - 9.0% of mass 174	4.8 (7) 1
176	95.0 - 101.0% of mass 174	67.2 (98.3) 1
177	5.0 - 9.0% of mass 176	4.5 (6.8) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VX046488.D	06/04/2025	10:12
VX0604WBL01	VX0604WBL01	VX046490.D	06/04/2025	11:04
VX0604WBS01	VX0604WBS01	VX046491.D	06/04/2025	11:27
VX0604WBSD01	VX0604WBSD01	VX046497.D	06/04/2025	13:52
B-202-GW01	Q2198-05	VX046506.D	06/04/2025	17:25

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q2198 SAS No.: Q2198 SDG NO.: Q2198

Lab File ID: VY022488.D BFB Injection Date: 06/02/2025

Instrument ID: MSVOA_Y BFB Injection Time: 08:31

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: Y/N Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	25.6
75	30.0 - 60.0% of mass 95	58.9
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.9
173	Less than 2.0% of mass 174	0.5 (0.6) 1
174	50.0 - 100.0% of mass 95	86.2
175	5.0 - 9.0% of mass 174	6.6 (7.6) 1
176	95.0 - 101.0% of mass 174	82.5 (95.6) 1
177	5.0 - 9.0% of mass 176	5.4 (6.6) 2

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

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDICC005	VSTDICC005	VY022491.D	06/02/2025	11:46
VSTDICC010	VSTDICC010	VY022492.D	06/02/2025	12:09
VSTDICC020	VSTDICC020	VY022493.D	06/02/2025	12:32
VSTDICCC050	VSTDICCC050	VY022494.D	06/02/2025	12:54
VSTDICC100	VSTDICC100	VY022495.D	06/02/2025	13:17
VSTDICC150	VSTDICC150	VY022496.D	06/02/2025	13:39

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q2198 SAS No.: Q2198 SDG NO.: Q2198

Lab File ID: VY022537.D BFB Injection Date: 06/04/2025

Instrument ID: MSVOA_Y BFB Injection Time: 08:48

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: Y/N Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	25.3
75	30.0 - 60.0% of mass 95	58.4
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.5
173	Less than 2.0% of mass 174	1.1 (1.2) 1
174	50.0 - 100.0% of mass 95	85.4
175	5.0 - 9.0% of mass 174	6.4 (7.5) 1
176	95.0 - 101.0% of mass 174	83.3 (97.6) 1
177	5.0 - 9.0% of mass 176	5.3 (6.3) 2

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

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VY022538.D	06/04/2025	09:54
VY0604SBL01	VY0604SBL01	VY022539.D	06/04/2025	10:24
VY0604SBS01	VY0604SBS01	VY022540.D	06/04/2025	10:54
VY0604SBSD01	VY0604SBSD01	VY022541.D	06/04/2025	11:16
B-202-SB02	Q2198-01	VY022552.D	06/04/2025	15:47
B-207-SB02	Q2198-03	VY022553.D	06/04/2025	16:11

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q2198 SAS No.: Q2198 SDG NO.: Q2198

Lab File ID: VX046488.D Date Analyzed: 06/04/2025

Instrument ID: MSVOA_X Time Analyzed: 10:12

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	97475	5.54	165033	6.75	141151	10.05
UPPER LIMIT	194950	6.043	330066	7.25	282302	10.549
LOWER LIMIT	48737.5	5.043	82516.5	6.25	70575.5	9.549
EPA SAMPLE NO.						
B-202-GW01	60413	5.55	119148	6.76	111234	10.06
VX0604WBL01	69580	5.55	139946	6.76	133992	10.05
VX0604WBS01	92897	5.54	164481	6.76	139452	10.05
VX0604WBSD01	84483	5.55	152834	6.76	133225	10.06

IS1 = Pentafluorobenzene
IS2 = 1,4-Difluorobenzene
IS3 = Chlorobenzene-d5

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

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q2198 SAS No.: Q2198 SDG NO.: Q2198

Lab File ID: VX046488.D Date Analyzed: 06/04/2025

Instrument ID: MSVOA_X Time Analyzed: 10:12

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

	IS4 AREA #	RT #				
12 HOUR STD	69016	12.018				
UPPER LIMIT	138032	12.518				
LOWER LIMIT	34508	11.518				
EPA SAMPLE NO.						
B-202-GW01	48853	12.02				
VX0604WBL01	59967	12.02				
VX0604WBS01	63937	12.02				
VX0604WBSD01	62838	12.02				

IS4 = 1,4-Dichlorobenzene-d4

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

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q2198 SAS No.: Q2198 SDG NO.: Q2198

Lab File ID: VY022538.D Date Analyzed: 06/04/2025

Instrument ID: MSVOA_Y Time Analyzed: 09:54

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	186956	7.71	316261	8.62	266067	11.42
UPPER LIMIT	373912	8.213	632522	9.116	532134	11.92
LOWER LIMIT	93478	7.213	158131	8.116	133034	10.92
EPA SAMPLE NO.						
B-202-SB02	276393	7.71	491823	8.61	374782	11.41
B-207-SB02	231939	7.71	422737	8.61	324979	11.41
VY0604SBL01	271205	7.71	498185	8.62	390593	11.41
VY0604SBS01	177182	7.71	307142	8.62	260223	11.41
VY0604SBSD01	179220	7.71	309983	8.62	260030	11.41

IS1 = Pentafluorobenzene
IS2 = 1,4-Difluorobenzene
IS3 = Chlorobenzene-d5

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

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q2198 SAS No.: Q2198 SDG NO.: Q2198

Lab File ID: VY022538.D Date Analyzed: 06/04/2025

Instrument ID: MSVOA_Y Time Analyzed: 09:54

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

	IS4 AREA #	RT #				
12 HOUR STD	125910	13.346				
UPPER LIMIT	251820	13.846				
LOWER LIMIT	62955	12.846				
EPA SAMPLE NO.						
B-202-SB02	132509	13.34				
B-207-SB02	101553	13.34				
VY0604SBL01	137326	13.35				
VY0604SBS01	119650	13.35				
VY0604SBSD01	119455	13.35				

IS4 = 1,4-Dichlorobenzene-d4

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

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

QC SAMPLE DATA

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VX0604WBL01	SDG No.:	Q2198
Lab Sample ID:	VX0604WBL01	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX046490.D	1		06/04/25 11:04	VX060425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	0.22	U	0.22	1.00	ug/L
74-87-3	Chloromethane	0.32	U	0.32	1.00	ug/L
75-01-4	Vinyl Chloride	0.26	U	0.26	1.00	ug/L
74-83-9	Bromomethane	1.40	U	1.40	5.00	ug/L
75-00-3	Chloroethane	0.47	U	0.47	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.33	U	0.33	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.25	U	0.25	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.23	U	0.23	1.00	ug/L
67-64-1	Acetone	1.50	U	1.50	5.00	ug/L
75-15-0	Carbon Disulfide	0.21	U	0.21	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.16	U	0.16	1.00	ug/L
79-20-9	Methyl Acetate	0.27	U	0.27	1.00	ug/L
75-09-2	Methylene Chloride	0.28	U	0.28	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.23	U	0.23	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.23	U	0.23	1.00	ug/L
110-82-7	Cyclohexane	1.50	U	1.50	5.00	ug/L
78-93-3	2-Butanone	0.98	U	0.98	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.25	U	0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.19	U	0.19	1.00	ug/L
74-97-5	Bromochloromethane	0.22	U	0.22	1.00	ug/L
67-66-3	Chloroform	0.25	U	0.25	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.20	U	0.20	1.00	ug/L
108-87-2	Methylcyclohexane	0.16	U	0.16	1.00	ug/L
71-43-2	Benzene	0.15	U	0.15	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.22	U	0.22	1.00	ug/L
79-01-6	Trichloroethene	0.090	U	0.090	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.20	U	0.20	1.00	ug/L
75-27-4	Bromodichloromethane	0.22	U	0.22	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	0.68	U	0.68	5.00	ug/L
108-88-3	Toluene	0.14	U	0.14	1.00	ug/L

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VX0604WBL01	SDG No.:	Q2198
Lab Sample ID:	VX0604WBL01	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX046490.D	1		06/04/25 11:04	VX060425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.17	U	0.17	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.16	U	0.16	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.21	U	0.21	1.00	ug/L
591-78-6	2-Hexanone	0.89	U	0.89	5.00	ug/L
124-48-1	Dibromochloromethane	0.18	U	0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.15	U	0.15	1.00	ug/L
127-18-4	Tetrachloroethene	0.23	U	0.23	1.00	ug/L
108-90-7	Chlorobenzene	0.12	U	0.12	1.00	ug/L
100-41-4	Ethyl Benzene	0.13	U	0.13	1.00	ug/L
179601-23-1	m/p-Xylenes	0.24	U	0.24	2.00	ug/L
95-47-6	o-Xylene	0.12	U	0.12	1.00	ug/L
100-42-5	Styrene	0.15	U	0.15	1.00	ug/L
75-25-2	Bromoform	0.19	U	0.19	1.00	ug/L
98-82-8	Isopropylbenzene	0.12	U	0.12	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.26	U	0.26	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.16	U	0.16	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.19	U	0.19	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.16	U	0.16	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.53	U	0.53	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.20	U	0.20	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.20	U	0.20	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	53.4		70 (74) - 130 (125)	107%	SPK: 50
1868-53-7	Dibromofluoromethane	50.4		70 (75) - 130 (124)	101%	SPK: 50
2037-26-5	Toluene-d8	50.4		70 (86) - 130 (113)	101%	SPK: 50
460-00-4	4-Bromofluorobenzene	53.1		70 (77) - 130 (121)	106%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	69600	5.55			
540-36-3	1,4-Difluorobenzene	140000	6.757			
3114-55-4	Chlorobenzene-d5	134000	10.049			
3855-82-1	1,4-Dichlorobenzene-d4	60000	12.018			

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VX0604WBL01	SDG No.:	Q2198
Lab Sample ID:	VX0604WBL01	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX046490.D	1		06/04/25 11:04	VX060425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VY0604SBL01	SDG No.:	Q2198
Lab Sample ID:	VY0604SBL01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022539.D	1		06/04/25 10:24	VY060425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	1.10	U	1.10	5.00	ug/Kg
74-87-3	Chloromethane	1.10	U	1.10	5.00	ug/Kg
75-01-4	Vinyl Chloride	0.79	U	0.79	5.00	ug/Kg
74-83-9	Bromomethane	1.10	U	1.10	5.00	ug/Kg
75-00-3	Chloroethane	1.30	U	1.30	5.00	ug/Kg
75-69-4	Trichlorofluoromethane	1.20	U	1.20	5.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	1.10	U	1.10	5.00	ug/Kg
75-35-4	1,1-Dichloroethene	1.00	U	1.00	5.00	ug/Kg
67-64-1	Acetone	4.70	U	4.70	25.0	ug/Kg
75-15-0	Carbon Disulfide	1.10	U	1.10	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.73	U	0.73	5.00	ug/Kg
79-20-9	Methyl Acetate	1.50	U	1.50	5.00	ug/Kg
75-09-2	Methylene Chloride	3.50	U	3.50	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.86	U	0.86	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	0.80	U	0.80	5.00	ug/Kg
110-82-7	Cyclohexane	0.79	U	0.79	5.00	ug/Kg
78-93-3	2-Butanone	6.50	U	6.50	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	0.97	U	0.97	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.75	U	0.75	5.00	ug/Kg
74-97-5	Bromochloromethane	1.20	U	1.20	5.00	ug/Kg
67-66-3	Chloroform	0.84	U	0.84	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.93	U	0.93	5.00	ug/Kg
108-87-2	Methylcyclohexane	0.91	U	0.91	5.00	ug/Kg
71-43-2	Benzene	0.79	U	0.79	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	0.79	U	0.79	5.00	ug/Kg
79-01-6	Trichloroethene	0.81	U	0.81	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	0.91	U	0.91	5.00	ug/Kg
75-27-4	Bromodichloromethane	0.78	U	0.78	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	3.60	U	3.60	25.0	ug/Kg
108-88-3	Toluene	0.78	U	0.78	5.00	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VY0604SBL01	SDG No.:	Q2198
Lab Sample ID:	VY0604SBL01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022539.D	1		06/04/25 10:24	VY060425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.65	U	0.65	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.62	U	0.62	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.92	U	0.92	5.00	ug/Kg
591-78-6	2-Hexanone	3.70	U	3.70	25.0	ug/Kg
124-48-1	Dibromochloromethane	0.87	U	0.87	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	0.88	U	0.88	5.00	ug/Kg
127-18-4	Tetrachloroethene	1.10	U	1.10	5.00	ug/Kg
108-90-7	Chlorobenzene	0.91	U	0.91	5.00	ug/Kg
100-41-4	Ethyl Benzene	0.67	U	0.67	5.00	ug/Kg
179601-23-1	m/p-Xylenes	1.20	U	1.20	10.0	ug/Kg
95-47-6	o-Xylene	0.82	U	0.82	5.00	ug/Kg
100-42-5	Styrene	0.71	U	0.71	5.00	ug/Kg
75-25-2	Bromoform	0.86	U	0.86	5.00	ug/Kg
98-82-8	Isopropylbenzene	0.78	U	0.78	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.20	U	1.20	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	1.70	U	1.70	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	1.60	U	1.60	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	1.50	U	1.50	5.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1.80	U	1.80	5.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	3.00	U	3.00	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	3.20	U	3.20	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	52.7		70 (63) - 130 (155)	105%	SPK: 50
1868-53-7	Dibromofluoromethane	50.7		70 (70) - 130 (134)	101%	SPK: 50
2037-26-5	Toluene-d8	49.3		70 (74) - 130 (123)	99%	SPK: 50
460-00-4	4-Bromofluorobenzene	41.7		70 (17) - 130 (146)	83%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	271000	7.707			
540-36-3	1,4-Difluorobenzene	498000	8.616			
3114-55-4	Chlorobenzene-d5	391000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	137000	13.346			

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VY0604SBL01	SDG No.:	Q2198
Lab Sample ID:	VY0604SBL01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022539.D	1		06/04/25 10:24	VY060425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VX0604WBS01	SDG No.:	Q2198
Lab Sample ID:	VX0604WBS01	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX046491.D	1		06/04/25 11:27	VX060425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	16.0		0.22	1.00	ug/L
74-87-3	Chloromethane	15.1		0.32	1.00	ug/L
75-01-4	Vinyl Chloride	15.5		0.26	1.00	ug/L
74-83-9	Bromomethane	16.1		1.40	5.00	ug/L
75-00-3	Chloroethane	17.1		0.47	1.00	ug/L
75-69-4	Trichlorofluoromethane	18.0		0.33	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	18.3		0.25	1.00	ug/L
75-35-4	1,1-Dichloroethene	17.2		0.23	1.00	ug/L
67-64-1	Acetone	110		1.50	5.00	ug/L
75-15-0	Carbon Disulfide	12.6		0.21	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	20.6		0.16	1.00	ug/L
79-20-9	Methyl Acetate	27.6		0.27	1.00	ug/L
75-09-2	Methylene Chloride	17.8		0.28	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	17.5		0.23	1.00	ug/L
75-34-3	1,1-Dichloroethane	19.6		0.23	1.00	ug/L
110-82-7	Cyclohexane	16.8		1.50	5.00	ug/L
78-93-3	2-Butanone	110		0.98	5.00	ug/L
56-23-5	Carbon Tetrachloride	18.4		0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	19.6		0.19	1.00	ug/L
74-97-5	Bromochloromethane	21.9		0.22	1.00	ug/L
67-66-3	Chloroform	20.0		0.25	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	19.4		0.20	1.00	ug/L
108-87-2	Methylcyclohexane	16.1		0.16	1.00	ug/L
71-43-2	Benzene	18.6		0.15	1.00	ug/L
107-06-2	1,2-Dichloroethane	19.8		0.22	1.00	ug/L
79-01-6	Trichloroethene	18.4		0.090	1.00	ug/L
78-87-5	1,2-Dichloropropane	19.8		0.20	1.00	ug/L
75-27-4	Bromodichloromethane	19.6		0.22	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	110		0.68	5.00	ug/L
108-88-3	Toluene	19.1		0.14	1.00	ug/L

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Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VX0604WBS01	SDG No.:	Q2198
Lab Sample ID:	VX0604WBS01	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX046491.D	1		06/04/25 11:27	VX060425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	19.1		0.17	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	19.4		0.16	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	20.5		0.21	1.00	ug/L
591-78-6	2-Hexanone	110		0.89	5.00	ug/L
124-48-1	Dibromochloromethane	20.5		0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	20.1		0.15	1.00	ug/L
127-18-4	Tetrachloroethene	19.0		0.23	1.00	ug/L
108-90-7	Chlorobenzene	19.5		0.12	1.00	ug/L
100-41-4	Ethyl Benzene	19.6		0.13	1.00	ug/L
179601-23-1	m/p-Xylenes	39.8		0.24	2.00	ug/L
95-47-6	o-Xylene	20.6		0.12	1.00	ug/L
100-42-5	Styrene	20.5		0.15	1.00	ug/L
75-25-2	Bromoform	20.0		0.19	1.00	ug/L
98-82-8	Isopropylbenzene	21.2		0.12	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	21.3		0.26	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	20.0		0.16	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	20.5		0.19	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	21.0		0.16	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	23.8		0.53	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	21.0		0.20	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	20.5		0.20	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	50.1		70 (74) - 130 (125)	100%	SPK: 50
1868-53-7	Dibromofluoromethane	51.3		70 (75) - 130 (124)	103%	SPK: 50
2037-26-5	Toluene-d8	47.3		70 (86) - 130 (113)	95%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.1		70 (77) - 130 (121)	98%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	92900	5.544			
540-36-3	1,4-Difluorobenzene	164000	6.757			
3114-55-4	Chlorobenzene-d5	139000	10.049			
3855-82-1	1,4-Dichlorobenzene-d4	63900	12.018			

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VX0604WBS01	SDG No.:	Q2198
Lab Sample ID:	VX0604WBS01	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX046491.D	1		06/04/25 11:27	VX060425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VY0604SBS01	SDG No.:	Q2198
Lab Sample ID:	VY0604SBS01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022540.D	1		06/04/25 10:54	VY060425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	22.1		1.10	5.00	ug/Kg
74-87-3	Chloromethane	18.8		1.10	5.00	ug/Kg
75-01-4	Vinyl Chloride	22.0		0.79	5.00	ug/Kg
74-83-9	Bromomethane	21.2		1.10	5.00	ug/Kg
75-00-3	Chloroethane	22.5		1.30	5.00	ug/Kg
75-69-4	Trichlorofluoromethane	23.5		1.20	5.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	20.6		1.10	5.00	ug/Kg
75-35-4	1,1-Dichloroethene	21.1		1.00	5.00	ug/Kg
67-64-1	Acetone	87.2		4.70	25.0	ug/Kg
75-15-0	Carbon Disulfide	20.5		1.10	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	20.2		0.73	5.00	ug/Kg
79-20-9	Methyl Acetate	20.0		1.50	5.00	ug/Kg
75-09-2	Methylene Chloride	19.1		3.50	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	20.7		0.86	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	21.2		0.80	5.00	ug/Kg
110-82-7	Cyclohexane	19.6		0.79	5.00	ug/Kg
78-93-3	2-Butanone	93.6		6.50	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	20.0		0.97	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	21.2		0.75	5.00	ug/Kg
74-97-5	Bromochloromethane	21.0		1.20	5.00	ug/Kg
67-66-3	Chloroform	21.1		0.84	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	21.2		0.93	5.00	ug/Kg
108-87-2	Methylcyclohexane	20.0		0.91	5.00	ug/Kg
71-43-2	Benzene	20.8		0.79	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	20.1		0.79	5.00	ug/Kg
79-01-6	Trichloroethene	20.3		0.81	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	21.1		0.91	5.00	ug/Kg
75-27-4	Bromodichloromethane	20.9		0.78	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	93.5		3.60	25.0	ug/Kg
108-88-3	Toluene	20.3		0.78	5.00	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VY0604SBS01	SDG No.:	Q2198
Lab Sample ID:	VY0604SBS01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022540.D	1		06/04/25 10:54	VY060425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	19.6		0.65	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	20.3		0.62	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	19.3		0.92	5.00	ug/Kg
591-78-6	2-Hexanone	91.6		3.70	25.0	ug/Kg
124-48-1	Dibromochloromethane	19.7		0.87	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	20.5		0.88	5.00	ug/Kg
127-18-4	Tetrachloroethene	20.9		1.10	5.00	ug/Kg
108-90-7	Chlorobenzene	20.4		0.91	5.00	ug/Kg
100-41-4	Ethyl Benzene	19.7		0.67	5.00	ug/Kg
179601-23-1	m/p-Xylenes	38.9		1.20	10.0	ug/Kg
95-47-6	o-Xylene	19.8		0.82	5.00	ug/Kg
100-42-5	Styrene	19.4		0.71	5.00	ug/Kg
75-25-2	Bromoform	18.6		0.86	5.00	ug/Kg
98-82-8	Isopropylbenzene	19.8		0.78	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	18.6		1.20	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	19.9		1.70	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	20.0		1.60	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	20.0		1.50	5.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	19.5		1.80	5.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	21.1		3.00	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	20.5		3.20	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	53.9		70 (63) - 130 (155)	108%	SPK: 50
1868-53-7	Dibromofluoromethane	53.3		70 (70) - 130 (134)	107%	SPK: 50
2037-26-5	Toluene-d8	53.4		70 (74) - 130 (123)	107%	SPK: 50
460-00-4	4-Bromofluorobenzene	52.0		70 (17) - 130 (146)	104%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	177000	7.707			
540-36-3	1,4-Difluorobenzene	307000	8.616			
3114-55-4	Chlorobenzene-d5	260000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	120000	13.347			

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VY0604SBS01	SDG No.:	Q2198
Lab Sample ID:	VY0604SBS01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022540.D	1		06/04/25 10:54	VY060425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VX0604WBSD01	SDG No.:	Q2198
Lab Sample ID:	VX0604WBSD01	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX046497.D	1		06/04/25 13:52	VX060425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	19.0		0.22	1.00	ug/L
74-87-3	Chloromethane	18.9		0.32	1.00	ug/L
75-01-4	Vinyl Chloride	18.8		0.26	1.00	ug/L
74-83-9	Bromomethane	17.0		1.40	5.00	ug/L
75-00-3	Chloroethane	24.8		0.47	1.00	ug/L
75-69-4	Trichlorofluoromethane	20.8		0.33	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	20.2		0.25	1.00	ug/L
75-35-4	1,1-Dichloroethene	20.3		0.23	1.00	ug/L
67-64-1	Acetone	120		1.50	5.00	ug/L
75-15-0	Carbon Disulfide	16.8		0.21	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	23.4		0.16	1.00	ug/L
79-20-9	Methyl Acetate	31.2		0.27	1.00	ug/L
75-09-2	Methylene Chloride	20.6		0.28	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	20.4		0.23	1.00	ug/L
75-34-3	1,1-Dichloroethane	22.2		0.23	1.00	ug/L
110-82-7	Cyclohexane	21.1		1.50	5.00	ug/L
78-93-3	2-Butanone	120		0.98	5.00	ug/L
56-23-5	Carbon Tetrachloride	20.4		0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	22.0		0.19	1.00	ug/L
74-97-5	Bromochloromethane	23.0		0.22	1.00	ug/L
67-66-3	Chloroform	22.6		0.25	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	22.5		0.20	1.00	ug/L
108-87-2	Methylcyclohexane	19.9		0.16	1.00	ug/L
71-43-2	Benzene	21.4		0.15	1.00	ug/L
107-06-2	1,2-Dichloroethane	21.6		0.22	1.00	ug/L
79-01-6	Trichloroethene	21.3		0.090	1.00	ug/L
78-87-5	1,2-Dichloropropane	22.1		0.20	1.00	ug/L
75-27-4	Bromodichloromethane	21.7		0.22	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	120		0.68	5.00	ug/L
108-88-3	Toluene	21.7		0.14	1.00	ug/L

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VX0604WBSD01	SDG No.:	Q2198
Lab Sample ID:	VX0604WBSD01	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX046497.D	1		06/04/25 13:52	VX060425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	20.7		0.17	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	21.4		0.16	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	22.2		0.21	1.00	ug/L
591-78-6	2-Hexanone	120		0.89	5.00	ug/L
124-48-1	Dibromochloromethane	21.6		0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	21.8		0.15	1.00	ug/L
127-18-4	Tetrachloroethene	20.6		0.23	1.00	ug/L
108-90-7	Chlorobenzene	21.3		0.12	1.00	ug/L
100-41-4	Ethyl Benzene	22.0		0.13	1.00	ug/L
179601-23-1	m/p-Xylenes	43.0		0.24	2.00	ug/L
95-47-6	o-Xylene	22.4		0.12	1.00	ug/L
100-42-5	Styrene	22.4		0.15	1.00	ug/L
75-25-2	Bromoform	20.6		0.19	1.00	ug/L
98-82-8	Isopropylbenzene	22.6		0.12	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	22.5		0.26	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	21.7		0.16	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	21.0		0.19	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	22.2		0.16	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	23.8		0.53	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	21.7		0.20	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	21.6		0.20	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	51.7		70 (74) - 130 (125)	103%	SPK: 50
1868-53-7	Dibromofluoromethane	52.1		70 (75) - 130 (124)	104%	SPK: 50
2037-26-5	Toluene-d8	49.0		70 (86) - 130 (113)	98%	SPK: 50
460-00-4	4-Bromofluorobenzene	51.3		70 (77) - 130 (121)	103%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	84500	5.55			
540-36-3	1,4-Difluorobenzene	153000	6.757			
3114-55-4	Chlorobenzene-d5	133000	10.055			
3855-82-1	1,4-Dichlorobenzene-d4	62800	12.018			

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VX0604WBSD01	SDG No.:	Q2198
Lab Sample ID:	VX0604WBSD01	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX046497.D	1		06/04/25 13:52	VX060425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VY0604SBSD01	SDG No.:	Q2198
Lab Sample ID:	VY0604SBSD01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022541.D	1		06/04/25 11:16	VY060425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	22.0		1.10	5.00	ug/Kg
74-87-3	Chloromethane	18.7		1.10	5.00	ug/Kg
75-01-4	Vinyl Chloride	22.6		0.79	5.00	ug/Kg
74-83-9	Bromomethane	21.9		1.10	5.00	ug/Kg
75-00-3	Chloroethane	23.1		1.30	5.00	ug/Kg
75-69-4	Trichlorofluoromethane	24.1		1.20	5.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	21.1		1.10	5.00	ug/Kg
75-35-4	1,1-Dichloroethene	21.1		1.00	5.00	ug/Kg
67-64-1	Acetone	99.4		4.70	25.0	ug/Kg
75-15-0	Carbon Disulfide	21.1		1.10	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	21.6		0.73	5.00	ug/Kg
79-20-9	Methyl Acetate	22.1		1.50	5.00	ug/Kg
75-09-2	Methylene Chloride	19.8		3.50	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	21.5		0.86	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	21.6		0.80	5.00	ug/Kg
110-82-7	Cyclohexane	20.1		0.79	5.00	ug/Kg
78-93-3	2-Butanone	100		6.50	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	20.1		0.97	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	21.4		0.75	5.00	ug/Kg
74-97-5	Bromochloromethane	20.2		1.20	5.00	ug/Kg
67-66-3	Chloroform	21.6		0.84	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	21.4		0.93	5.00	ug/Kg
108-87-2	Methylcyclohexane	19.7		0.91	5.00	ug/Kg
71-43-2	Benzene	20.9		0.79	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	20.9		0.79	5.00	ug/Kg
79-01-6	Trichloroethene	20.4		0.81	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	21.2		0.91	5.00	ug/Kg
75-27-4	Bromodichloromethane	20.9		0.78	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	110		3.60	25.0	ug/Kg
108-88-3	Toluene	20.6		0.78	5.00	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VY0604SBSD01	SDG No.:	Q2198
Lab Sample ID:	VY0604SBSD01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022541.D	1		06/04/25 11:16	VY060425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	20.3		0.65	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	20.8		0.62	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	21.1		0.92	5.00	ug/Kg
591-78-6	2-Hexanone	100		3.70	25.0	ug/Kg
124-48-1	Dibromochloromethane	20.1		0.87	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	20.6		0.88	5.00	ug/Kg
127-18-4	Tetrachloroethene	21.9		1.10	5.00	ug/Kg
108-90-7	Chlorobenzene	21.0		0.91	5.00	ug/Kg
100-41-4	Ethyl Benzene	20.2		0.67	5.00	ug/Kg
179601-23-1	m/p-Xylenes	40.4		1.20	10.0	ug/Kg
95-47-6	o-Xylene	20.3		0.82	5.00	ug/Kg
100-42-5	Styrene	20.3		0.71	5.00	ug/Kg
75-25-2	Bromoform	19.5		0.86	5.00	ug/Kg
98-82-8	Isopropylbenzene	20.3		0.78	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	21.4		1.20	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	20.6		1.70	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	21.0		1.60	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	21.1		1.50	5.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	22.8		1.80	5.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	21.2		3.00	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	21.7		3.20	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	52.1		70 (63) - 130 (155)	104%	SPK: 50
1868-53-7	Dibromofluoromethane	50.4		70 (70) - 130 (134)	101%	SPK: 50
2037-26-5	Toluene-d8	50.4		70 (74) - 130 (123)	101%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.0		70 (17) - 130 (146)	98%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	179000	7.707			
540-36-3	1,4-Difluorobenzene	310000	8.616			
3114-55-4	Chlorobenzene-d5	260000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	119000	13.346			

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VY0604SBSD01	SDG No.:	Q2198
Lab Sample ID:	VY0604SBSD01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022541.D	1		06/04/25 11:16	VY060425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

CALIBRATION SUMMARY

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q2198 SAS No.: Q2198 SDG No.: Q2198

Instrument ID: MSVOA_X Calibration Date(s): 05/05/2025 05/05/2025

Heated Purge: (Y/N) N Calibration Time(s): 11:35 16:27

GC Column: DB-624UI ID: 0.18 (mm)

LAB FILE ID: RRF020 = VX046041.D RRF050 = VX046042.D RRF100 = VX046043.D
RRF150 = VX046044.D RRF005 = VX046046.D RRF001 = VX046047.D

COMPOUND	RRF020	RRF050	RRF100	RRF150	RRF005	RRF001	$\overline{RRF}$	% RSD
Dichlorodifluoromethane	0.697	0.864	0.859	0.875	0.639	0.658	0.765	14.6
Chloromethane	0.727	0.775	0.787	0.791	0.679	0.694	0.742	6.6
Vinyl Chloride	0.660	0.710	0.727	0.755	0.619	0.673	0.691	7.2
Bromomethane	0.296	0.326	0.340	0.334	0.305		0.320	5.8
Chloroethane	0.354	0.378	0.329	0.317	0.368	0.467	0.369	14.4
Trichlorofluoromethane	1.035	1.068	0.983	0.985	0.990	1.064	1.021	3.9
1,1,2-Trichlorotrifluoroethane	0.628	0.641	0.629	0.648	0.610	0.633	0.632	2.1
1,1-Dichloroethene	0.565	0.601	0.607	0.625	0.567	0.594	0.593	3.9
Acetone	0.361	0.362	0.361	0.370	0.408	0.380	0.374	4.9
Carbon Disulfide	1.295	1.455	1.522	1.597	1.141	1.423	1.406	11.7
Methyl tert-butyl Ether	2.044	2.160	2.172	2.239	1.908	1.949	2.079	6.4
Methyl Acetate	0.814	0.848	0.845	0.875	0.816	1.006	0.867	8.3
Methylene Chloride	0.689	0.684	0.691	0.691	0.689	0.853	0.716	9.4
trans-1,2-Dichloroethene	0.573	0.610	0.612	0.622	0.557	0.604	0.596	4.3
1,1-Dichloroethane	1.233	1.263	1.263	1.286	1.154	1.116	1.219	5.6
Cyclohexane	1.090	1.128	1.128	1.150	1.059		1.111	3.3
2-Butanone	0.540	0.555	0.558	0.569	0.539	0.495	0.543	4.8
Carbon Tetrachloride	0.528	0.558	0.552	0.577	0.505	0.541	0.544	4.6
cis-1,2-Dichloroethene	0.716	0.737	0.738	0.755	0.642	0.719	0.718	5.5
Bromochloromethane	0.628	0.578	0.595	0.590	0.553	0.576	0.587	4.3
Chloroform	1.287	1.296	1.277	1.300	1.199	1.265	1.271	3
1,1,1-Trichloroethane	1.106	1.131	1.155	1.188	1.013	1.015	1.101	6.6
Methylcyclohexane	0.596	0.641	0.627	0.658	0.587	0.627	0.623	4.3
Benzene	1.426	1.474	1.441	1.477	1.337	1.348	1.417	4.3
1,2-Dichloroethane	0.632	0.627	0.611	0.625	0.594	0.579	0.612	3.5
Trichloroethene	0.344	0.355	0.345	0.362	0.315	0.324	0.341	5.3
1,2-Dichloropropane	0.356	0.371	0.368	0.378	0.324	0.317	0.352	7.4
Bromodichloromethane	0.557	0.577	0.573	0.594	0.498	0.485	0.547	8.2
4-Methyl-2-Pentanone	0.620	0.634	0.630	0.631	0.555	0.561	0.605	6
Toluene	0.884	0.898	0.885	0.904	0.838	0.803	0.869	4.5

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

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VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q2198 SAS No.: Q2198 SDG No.: Q2198

Instrument ID: MSVOA_X Calibration Date(s): 05/05/2025 05/05/2025

Heated Purge: (Y/N) N Calibration Time(s): 11:35 16:27

GC Column: DB-624UI ID: 0.18 (mm)

LAB FILE ID: RRF020 = VX046041.D RRF050 = VX046042.D RRF100 = VX046043.D
RRF150 = VX046044.D RRF005 = VX046046.D RRF001 = VX046047.D

COMPOUND	RRF020	RRF050	RRF100	RRF150	RRF005	RRF001	$\overline{RRF}$	% RSD
t-1,3-Dichloropropene	0.468	0.528	0.555	0.591	0.406	0.371	0.487	17.9
cis-1,3-Dichloropropene	0.531	0.578	0.602	0.623	0.469	0.423	0.538	14.6
1,1,2-Trichloroethane	0.349	0.354	0.351	0.356	0.337	0.308	0.343	5.3
2-Hexanone	0.466	0.473	0.477	0.473	0.414	0.385	0.448	8.7
Dibromochloromethane	0.378	0.400	0.415	0.431	0.326	0.306	0.376	13.3
1,2-Dibromoethane	0.359	0.373	0.368	0.381	0.333	0.322	0.356	6.5
Tetrachloroethene	0.390	0.375	0.345	0.344	0.323	0.347	0.354	6.8
Chlorobenzene	1.093	1.098	1.085	1.114	1.046	1.131	1.094	2.7
Ethyl Benzene	1.919	2.022	1.979	2.036	1.816	1.803	1.929	5.2
m/p-Xylenes	0.706	0.740	0.721	0.740	0.678	0.648	0.706	5.2
o-Xylene	0.688	0.727	0.706	0.726	0.639	0.642	0.688	5.7
Styrene	1.135	1.219	1.214	1.230	1.012	0.951	1.127	10.6
Bromoform	0.270	0.304	0.312	0.327	0.236	0.234	0.281	14.2
Isopropylbenzene	3.843	4.130	3.876	4.156	3.562	3.789	3.893	5.7
1,1,2,2-Tetrachloroethane	1.315	1.338	1.284	1.345	1.350	1.552	1.364	7
1,3-Dichlorobenzene	1.633	1.701	1.656	1.730	1.558	1.619	1.649	3.7
1,4-Dichlorobenzene	1.629	1.693	1.639	1.722	1.606	1.817	1.684	4.6
1,2-Dichlorobenzene	1.613	1.696	1.634	1.702	1.577	1.710	1.655	3.3
1,2-Dibromo-3-Chloropropane	0.299	0.322	0.329	0.356	0.248	0.259	0.302	13.9
1,2,4-Trichlorobenzene	0.861	0.981	1.035	1.123	0.842	0.862	0.951	12
1,2,3-Trichlorobenzene	0.921	1.019	1.051	1.107	0.846	0.941	0.981	9.7
1,2-Dichloroethane-d4	0.953	0.910	0.930	0.932	0.935		0.932	1.6
Dibromofluoromethane	0.359	0.355	0.364	0.368	0.354		0.360	1.7
Toluene-d8	1.246	1.223	1.266	1.275	1.221		1.246	2
4-Bromofluorobenzene	0.455	0.470	0.500	0.500	0.464		0.478	4.4

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

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Fax : 908 789 8922

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q2198 SAS No.: Q2198 SDG No.: Q2198

Instrument ID: MSVOA_Y Calibration Date(s): 06/02/2025 06/02/2025

Heated Purge: (Y/N) Y Calibration Time(s): 11:46 13:39

GC Column: RXI-624 ID: 0.25 (mm)

LAB FILE ID: RRF005 = VY022491.D RRF010 = VY022492.D RRF020 = VY022493.D
RRF050 = VY022494.D RRF100 = VY022495.D RRF150 = VY022496.D

COMPOUND	RRF005	RRF010	RRF020	RRF050	RRF100	RRF150	$\overline{RRF}$	% RSD
Dichlorodifluoromethane	0.433	0.542	0.495	0.413	0.397	0.405	0.448	13
Chloromethane	1.320	1.590	1.431	1.230	1.178	1.185	1.322	12.3
Vinyl Chloride	1.371	1.814	1.647	1.497	1.444	1.432	1.534	10.8
Bromomethane	1.365	1.735	1.705	1.240	1.341	1.436	1.470	13.8
Chloroethane	0.973	1.278	1.198	0.965	0.941	0.964	1.053	13.8
Trichlorofluoromethane	1.135	1.492	1.430	1.224	1.223	1.310	1.302	10.5
1,1,2-Trichlorotrifluoroethane	0.510	0.615	0.572	0.538	0.522	0.534	0.549	7.1
1,1-Dichloroethene	0.469	0.577	0.549	0.518	0.510	0.523	0.524	7
Acetone	0.130	0.119	0.120	0.116	0.105	0.092	0.114	11.6
Carbon Disulfide	1.503	1.870	1.731	1.664	1.638	1.666	1.679	7.2
Methyl tert-butyl Ether	1.307	1.618	1.571	1.470	1.435	1.462	1.477	7.4
Methyl Acetate	0.280	0.408	0.396	0.333	0.301	0.301	0.336	15.9
Methylene Chloride	0.861	0.700	0.637	0.574	0.548	0.550	0.645	18.7
trans-1,2-Dichloroethene	0.522	0.651	0.612	0.571	0.574	0.592	0.587	7.4
1,1-Dichloroethane	0.968	1.193	1.124	1.060	1.051	1.080	1.079	7
Cyclohexane	1.168	1.208	1.098	1.015	0.970	0.988	1.075	9.2
2-Butanone	0.143	0.174	0.178	0.168	0.163	0.157	0.164	7.6
Carbon Tetrachloride	0.415	0.516	0.497	0.508	0.508	0.537	0.497	8.5
cis-1,2-Dichloroethene	0.592	0.731	0.706	0.682	0.668	0.691	0.678	7
Bromochloromethane	0.470	0.477	0.479	0.454	0.469	0.474	0.471	1.9
Chloroform	0.960	1.183	1.109	1.058	1.043	1.062	1.069	6.9
1,1,1-Trichloroethane	0.819	1.029	0.970	0.948	0.951	0.977	0.949	7.4
Methylcyclohexane	0.568	0.674	0.645	0.657	0.664	0.698	0.651	6.9
Benzene	1.213	1.487	1.473	1.441	1.452	1.518	1.431	7.7
1,2-Dichloroethane	0.320	0.424	0.413	0.390	0.395	0.401	0.391	9.4
Trichloroethene	0.294	0.388	0.353	0.355	0.350	0.358	0.350	8.7
1,2-Dichloropropane	0.274	0.364	0.354	0.344	0.344	0.349	0.338	9.6
Bromodichloromethane	0.380	0.525	0.499	0.491	0.491	0.508	0.482	10.7
4-Methyl-2-Pentanone	0.175	0.242	0.246	0.243	0.244	0.246	0.233	12.1
Toluene	0.732	0.932	0.904	0.903	0.933	0.990	0.899	9.8

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

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VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q2198 SAS No.: Q2198 SDG No.: Q2198

Instrument ID: MSVOA_Y Calibration Date(s): 06/02/2025 06/02/2025

Heated Purge: (Y/N) Y Calibration Time(s): 11:46 13:39

GC Column: RXI-624 ID: 0.25 (mm)

LAB FILE ID: RRF005 = VY022491.D RRF010 = VY022492.D RRF020 = VY022493.D
RRF050 = VY022494.D RRF100 = VY022495.D RRF150 = VY022496.D

COMPOUND	RRF005	RRF010	RRF020	RRF050	RRF100	RRF150	$\overline{RRF}$	% RSD
t-1,3-Dichloropropene	0.350	0.468	0.476	0.461	0.468	0.487	0.452	11.2
cis-1,3-Dichloropropene	0.423	0.549	0.545	0.537	0.544	0.558	0.526	9.7
1,1,2-Trichloroethane	0.207	0.257	0.258	0.242	0.243	0.249	0.243	7.7
2-Hexanone	0.120	0.158	0.166	0.162	0.165	0.162	0.156	11.3
Dibromochloromethane	0.248	0.320	0.325	0.314	0.319	0.323	0.308	9.6
1,2-Dibromoethane	0.174	0.236	0.239	0.223	0.225	0.230	0.221	10.9
Tetrachloroethene	0.375	0.474	0.448	0.437	0.416	0.432	0.430	7.7
Chlorobenzene	0.949	1.170	1.102	1.116	1.120	1.182	1.106	7.5
Ethyl Benzene	1.655	2.090	2.006	2.083	2.148	2.332	2.052	10.9
m/p-Xylenes	0.616	0.780	0.765	0.785	0.822	0.899	0.778	11.9
o-Xylene	0.583	0.749	0.721	0.734	0.764	0.826	0.729	11
Styrene	0.909	1.195	1.189	1.233	1.291	1.417	1.206	13.9
Bromoform	0.161	0.209	0.200	0.201	0.206	0.214	0.198	9.7
Isopropylbenzene	3.470	4.308	4.090	4.136	4.167	4.460	4.105	8.3
1,1,2,2-Tetrachloroethane	0.570	0.738	0.692	0.682	0.671	0.689	0.674	8.3
1,3-Dichlorobenzene	1.514	1.783	1.730	1.733	1.809	1.963	1.755	8.3
1,4-Dichlorobenzene	1.508	1.814	1.733	1.701	1.677	1.781	1.702	6.3
1,2-Dichlorobenzene	1.246	1.582	1.547	1.512	1.490	1.564	1.490	8.3
1,2-Dibromo-3-Chloropropane	0.074	0.110	0.103	0.105	0.098	0.099	0.098	12.7
1,2,4-Trichlorobenzene	0.667	0.863	0.812	0.817	0.851	0.865	0.813	9.2
1,2,3-Trichlorobenzene	0.622	0.721	0.712	0.699	0.710	0.714	0.697	5.3
1,2-Dichloroethane-d4	0.523	0.574	0.556	0.591	0.552	0.559	0.559	4.1
Dibromofluoromethane	0.264	0.283	0.301	0.321	0.307	0.315	0.298	7.2
Toluene-d8	1.067	1.181	1.158	1.279	1.253	1.298	1.206	7.2
4-Bromofluorobenzene	0.339	0.339	0.347	0.372	0.373	0.386	0.359	5.6

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

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Fax : 908 789 8922

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q2198 SAS No.: Q2198 SDG No.: Q2198

Instrument ID: MSVOA_X Calibration Date/Time: 06/04/2025 10:12

Lab File ID: VX046488.D Init. Calib. Date(s): 05/05/2025 05/05/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 11:35 16:27

GC Column: DB-624UI ID: 0.18 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.765	0.751		-1.83	20
Chloromethane	0.742	0.718	0.1	-3.23	20
Vinyl Chloride	0.691	0.665		-3.76	20
Bromomethane	0.320	0.277		-13.44	20
Chloroethane	0.369	0.377		2.17	20
Trichlorofluoromethane	1.021	1.059		3.72	20
1,1,2-Trichlorotrifluoroethane	0.632	0.670		6.01	20
1,1-Dichloroethene	0.593	0.593		0	20
Acetone	0.374	0.442		18.18	20
Carbon Disulfide	1.406	1.295		-7.89	20
Methyl tert-butyl Ether	2.079	2.295		10.39	20
Methyl Acetate	0.867	1.200		38.41	20
Methylene Chloride	0.716	0.693		-3.21	20
trans-1,2-Dichloroethene	0.596	0.599		0.5	20
1,1-Dichloroethane	1.219	1.302	0.1	6.81	20
Cyclohexane	1.111	1.106		-0.45	20
2-Butanone	0.543	0.606		11.6	20
Carbon Tetrachloride	0.544	0.588		8.09	20
cis-1,2-Dichloroethene	0.718	0.747		4.04	20
Bromochloromethane	0.587	0.546		-6.99	20
Chloroform	1.271	1.335		5.03	20
1,1,1-Trichloroethane	1.101	1.161		5.45	20
Methylcyclohexane	0.623	0.650		4.33	20
Benzene	1.417	1.496		5.57	20
1,2-Dichloroethane	0.612	0.651		6.37	20
Trichloroethene	0.341	0.364		6.74	20
1,2-Dichloropropane	0.352	0.386		9.66	20
Bromodichloromethane	0.547	0.606		10.79	20
4-Methyl-2-Pentanone	0.605	0.678		12.07	20
Toluene	0.869	0.902		3.8	20
t-1,3-Dichloropropene	0.487	0.557		14.37	20
cis-1,3-Dichloropropene	0.538	0.614		14.13	20
1,1,2-Trichloroethane	0.343	0.370		7.87	20
2-Hexanone	0.448	0.513		14.51	20
Dibromochloromethane	0.376	0.424		12.77	20
1,2-Dibromoethane	0.356	0.380		6.74	20
Tetrachloroethene	0.354	0.378		6.78	20
Chlorobenzene	1.094	1.168	0.3	6.76	20

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q2198 SAS No.: Q2198 SDG No.: Q2198

Instrument ID: MSVOA_X Calibration Date/Time: 06/04/2025 10:12

Lab File ID: VX046488.D Init. Calib. Date(s): 05/05/2025 05/05/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 11:35 16:27

GC Column: DB-624UI ID: 0.18 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Ethyl Benzene	1.929	2.117		9.75	20
m/p-Xylenes	0.706	0.764		8.22	20
o-Xylene	0.688	0.756		9.88	20
Styrene	1.127	1.283		13.84	20
Bromoform	0.281	0.318	0.1	13.17	20
Isopropylbenzene	3.893	4.180		7.37	20
1,1,2,2-Tetrachloroethane	1.364	1.385	0.3	1.54	20
1,3-Dichlorobenzene	1.649	1.733		5.09	20
1,4-Dichlorobenzene	1.684	1.742		3.44	20
1,2-Dichlorobenzene	1.655	1.740		5.14	20
1,2-Dibromo-3-Chloropropane	0.302	0.331		9.6	20
1,2,4-Trichlorobenzene	0.951	1.029		8.2	20
1,2,3-Trichlorobenzene	0.981	1.062		8.26	20
1,2-Dichloroethane-d4	0.932	0.862		-7.51	20
Dibromofluoromethane	0.360	0.356		-1.11	20
Toluene-d8	1.246	1.135		-8.91	20
4-Bromofluorobenzene	0.478	0.469		-1.88	20

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

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Fax : 908 789 8922

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q2198 SAS No.: Q2198 SDG No.: Q2198

Instrument ID: MSVOA_Y Calibration Date/Time: 06/04/2025 09:54

Lab File ID: VY022538.D Init. Calib. Date(s): 06/02/2025 06/02/2025

Heated Purge: (Y/N) Y Init. Calib. Time(s): 11:46 13:39

GC Column: RXI-624 ID: 0.25 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.448	0.401		-10.49	20
Chloromethane	1.322	1.094	0.1	-17.25	20
Vinyl Chloride	1.534	1.535		0.06	20
Bromomethane	1.470	1.232		-16.19	20
Chloroethane	1.053	1.084		2.94	20
Trichlorofluoromethane	1.302	1.341		2.99	20
1,1,2-Trichlorotrifluoroethane	0.549	0.534		-2.73	20
1,1-Dichloroethene	0.524	0.523		-0.19	20
Acetone	0.114	0.125		9.65	20
Carbon Disulfide	1.679	1.625		-3.22	20
Methyl tert-butyl Ether	1.477	1.427		-3.38	20
Methyl Acetate	0.336	0.345		2.68	20
Methylene Chloride	0.645	0.567		-12.09	20
trans-1,2-Dichloroethene	0.587	0.588		0.17	20
1,1-Dichloroethane	1.079	1.106	0.1	2.5	20
Cyclohexane	1.075	0.988		-8.09	20
2-Butanone	0.164	0.164		0	20
Carbon Tetrachloride	0.497	0.494		-0.6	20
cis-1,2-Dichloroethene	0.678	0.692		2.07	20
Bromochloromethane	0.471	0.467		-0.85	20
Chloroform	1.069	1.094		2.34	20
1,1,1-Trichloroethane	0.949	0.960		1.16	20
Methylcyclohexane	0.651	0.621		-4.61	20
Benzene	1.431	1.453		1.54	20
1,2-Dichloroethane	0.391	0.386		-1.28	20
Trichloroethene	0.350	0.358		2.29	20
1,2-Dichloropropane	0.338	0.339		0.3	20
Bromodichloromethane	0.482	0.487		1.04	20
4-Methyl-2-Pentanone	0.233	0.221		-5.15	20
Toluene	0.899	0.907		0.89	20
t-1,3-Dichloropropene	0.452	0.445		-1.55	20
cis-1,3-Dichloropropene	0.526	0.527		0.19	20
1,1,2-Trichloroethane	0.243	0.235		-3.29	20
2-Hexanone	0.156	0.154		-1.28	20
Dibromochloromethane	0.308	0.299		-2.92	20
1,2-Dibromoethane	0.221	0.214		-3.17	20
Tetrachloroethene	0.430	0.438		1.86	20
Chlorobenzene	1.106	1.123	0.3	1.54	20

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

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VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q2198 SAS No.: Q2198 SDG No.: Q2198

Instrument ID: MSVOA_Y Calibration Date/Time: 06/04/2025 09:54

Lab File ID: VY022538.D Init. Calib. Date(s): 06/02/2025 06/02/2025

Heated Purge: (Y/N) Y Init. Calib. Time(s): 11:46 13:39

GC Column: RXI-624 ID: 0.25 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Ethyl Benzene	2.052	2.102		2.44	20
m/p-Xylenes	0.778	0.788		1.28	20
o-Xylene	0.729	0.739		1.37	20
Styrene	1.206	1.238		2.65	20
Bromoform	0.198	0.190	0.1	-4.04	20
Isopropylbenzene	4.105	4.139		0.83	20
1,1,2,2-Tetrachloroethane	0.674	0.637	0.3	-5.49	20
1,3-Dichlorobenzene	1.755	1.760		0.28	20
1,4-Dichlorobenzene	1.702	1.707		0.29	20
1,2-Dichlorobenzene	1.490	1.481		-0.6	20
1,2-Dibromo-3-Chloropropane	0.098	0.092		-6.12	20
1,2,4-Trichlorobenzene	0.813	0.814		0.12	20
1,2,3-Trichlorobenzene	0.697	0.680		-2.44	20
1,2-Dichloroethane-d4	0.559	0.563		0.72	20
Dibromofluoromethane	0.298	0.309		3.69	20
Toluene-d8	1.206	1.268		5.14	20
4-Bromofluorobenzene	0.359	0.368		2.51	20

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

SAMPLE RAW DATA

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY060425\
Data File : VY022552.D
Acq On : 04 Jun 2025 15:47
Operator : SY/MD
Sample : Q2198-01
Misc : 8.06g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-202-SB02

Quant Time: Jun 05 04:17:24 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y060225S.M
Quant Title : SW846 8260
QLast Update : Tue Jun 03 03:22:04 2025
Response via : Initial Calibration

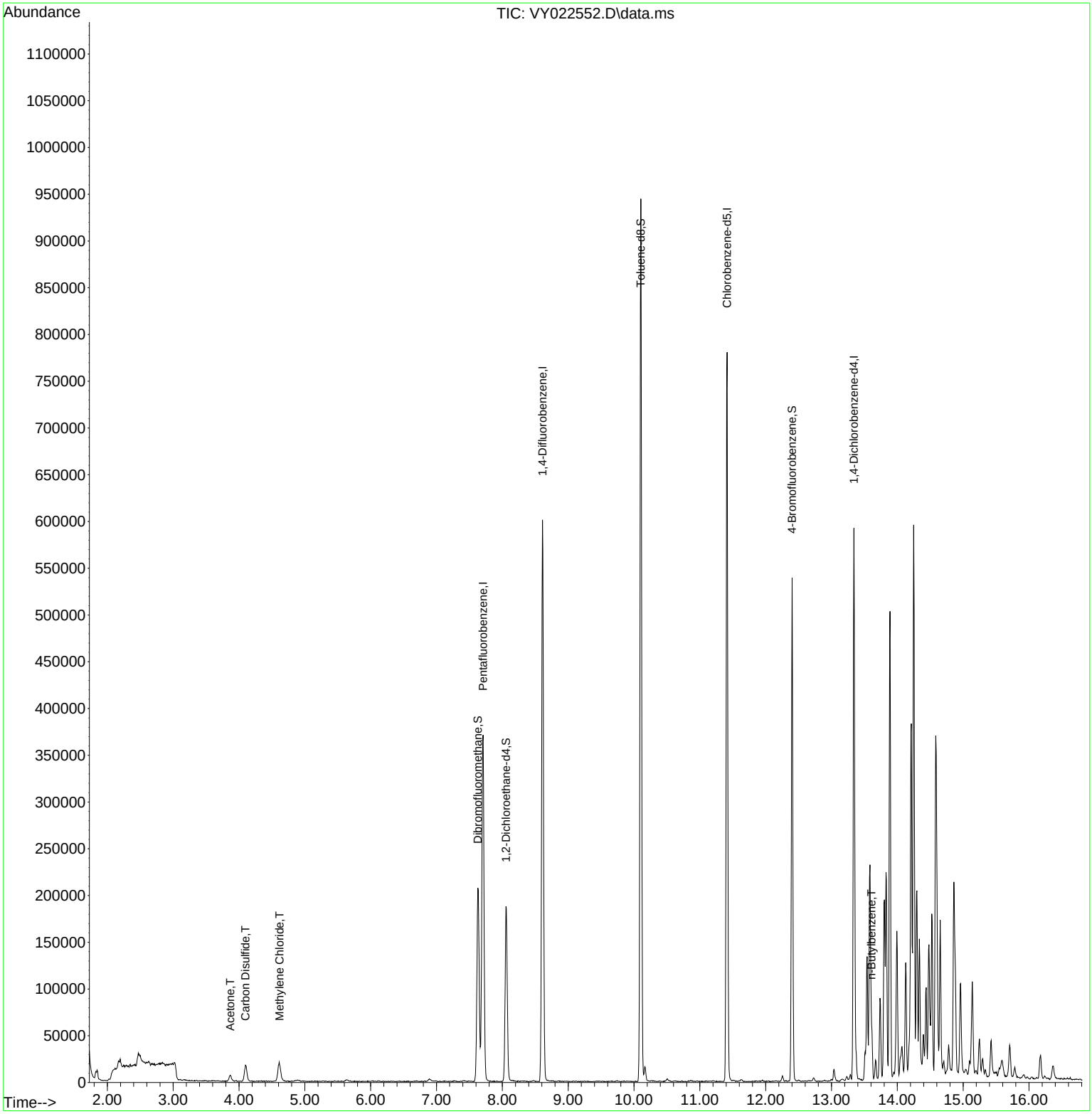
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	276393	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.610	114	491823	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	374782	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.340	152	132509	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.055	65	138625	44.844	ug/l	-0.01
Spiked Amount 50.000	Range 50 - 163		Recovery = 89.680%			
35) Dibromofluoromethane	7.628	113	142837	48.657	ug/l	-0.01
Spiked Amount 50.000	Range 54 - 147		Recovery = 97.320%			
50) Toluene-d8	10.103	98	583018	49.151	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 98.300%			
62) 4-Bromofluorobenzene	12.402	95	141487	40.034	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 80.060%			
Target Compounds						Qvalue
16) Acetone	3.867	43	10330	16.454	ug/l	95
17) Carbon Disulfide	4.098	76	33091	3.566	ug/l	97
20) Methylene Chloride	4.616	84	14348	4.023	ug/l	92
89) n-Butylbenzene	13.609	91	23297	2.537	ug/l #	70

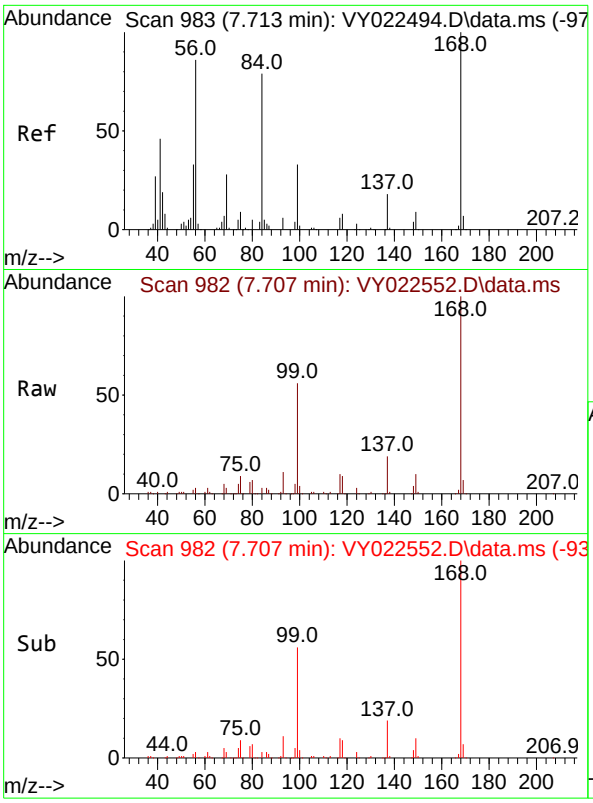
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY060425\
Data File : VY022552.D
Acq On : 04 Jun 2025 15:47
Operator : SY/MD
Sample : Q2198-01
Misc : 8.06g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-202-SB02

Quant Time: Jun 05 04:17:24 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y060225S.M
Quant Title : SW846 8260
QLast Update : Tue Jun 03 03:22:04 2025
Response via : Initial Calibration



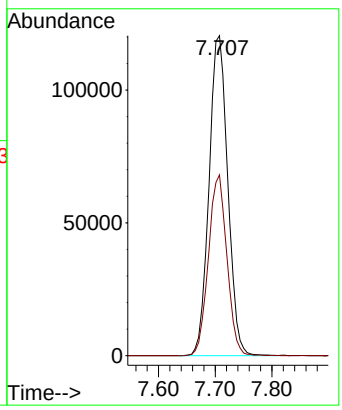


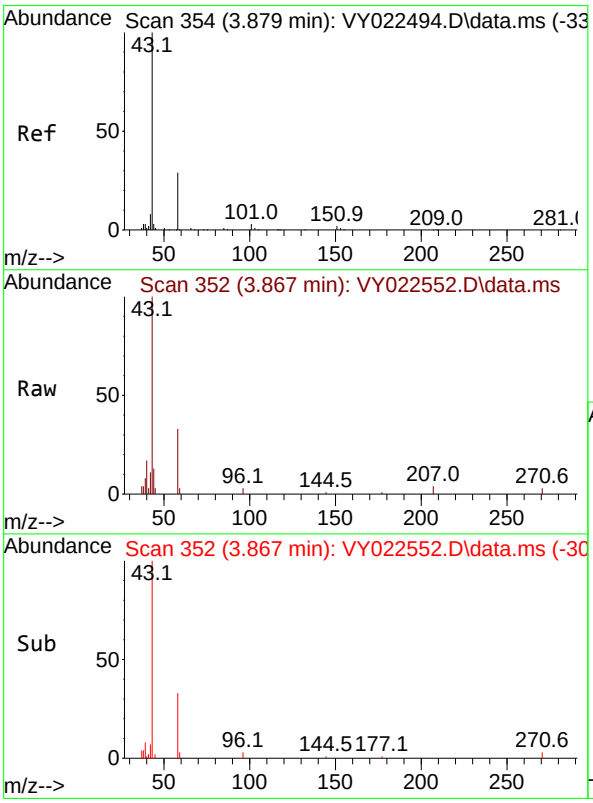
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. -0.006 min
Lab File: VY022552.D
Acq: 04 Jun 2025 15:47

Instrument :
MSVOA_Y
ClientSampleId :
B-202-SB02

Tgt Ion:168 Resp: 276393

Ion	Ratio	Lower	Upper
168	100		
99	56.5	44.3	66.5

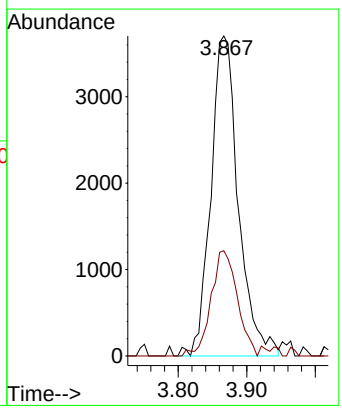


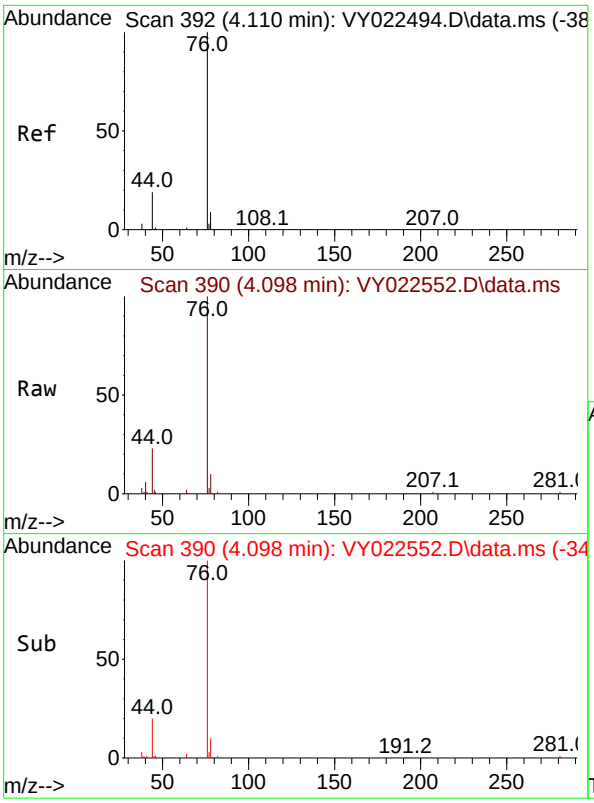


#16
Acetone
Concen: 16.454 ug/l
RT: 3.867 min Scan# 352
Delta R.T. -0.012 min
Lab File: VY022552.D
Acq: 04 Jun 2025 15:47

Tgt Ion: 43 Resp: 10330

Ion	Ratio	Lower	Upper
43	100		
58	32.9	24.0	36.0



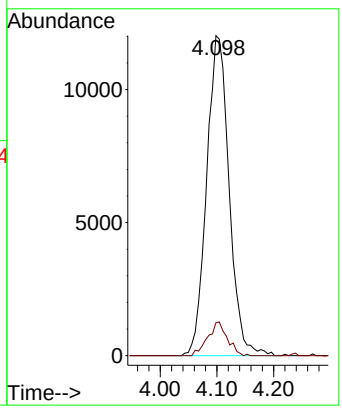


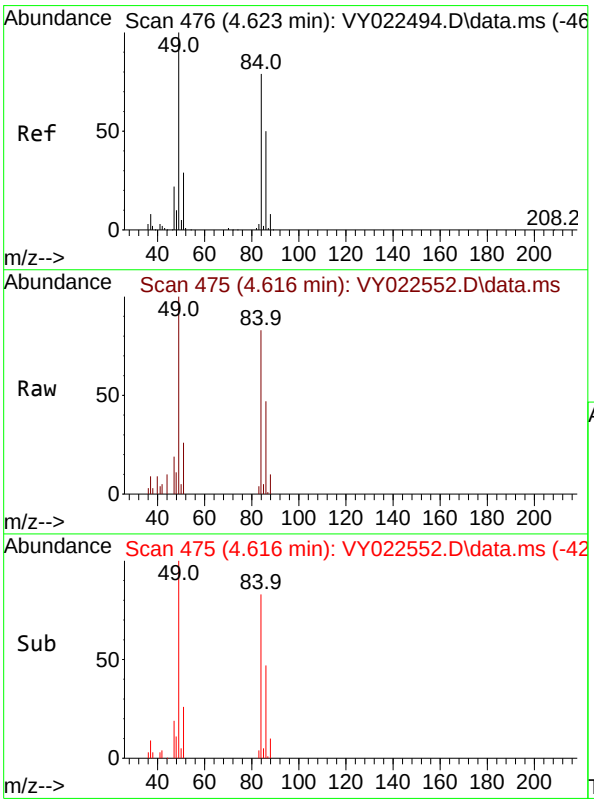
#17
Carbon Disulfide
Concen: 3.566 ug/l
RT: 4.098 min Scan# 3
Delta R.T. -0.012 min
Lab File: VY022552.D
Acq: 04 Jun 2025 15:47

Instrument :
MSVOA_Y
ClientSampleId :
B-202-SB02

Tgt Ion: 76 Resp: 33091

Ion	Ratio	Lower	Upper
76	100		
78	10.3	7.4	11.2

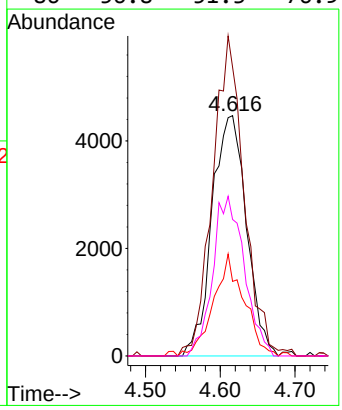


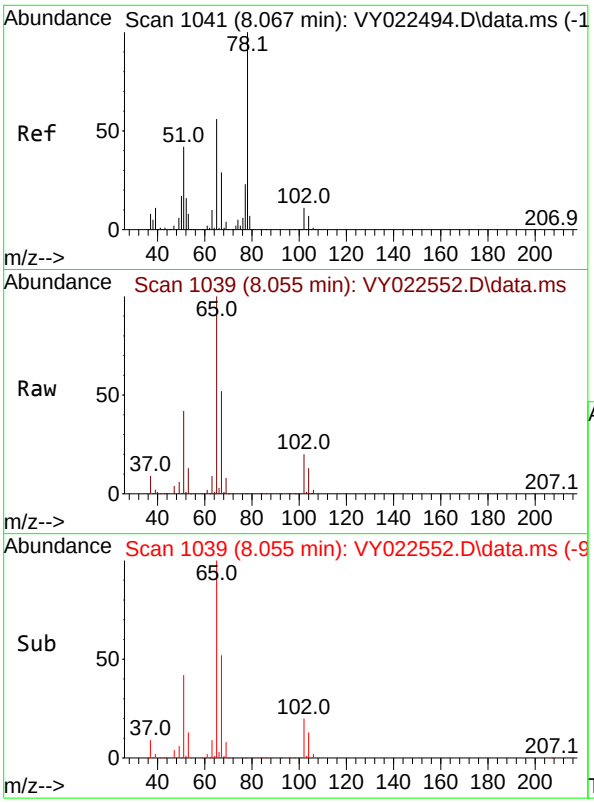


#20
Methylene Chloride
Concen: 4.023 ug/l
RT: 4.616 min Scan# 475
Delta R.T. -0.006 min
Lab File: VY022552.D
Acq: 04 Jun 2025 15:47

Tgt Ion: 84 Resp: 14348

Ion	Ratio	Lower	Upper
84	100		
49	120.2	101.9	152.9
51	31.0	29.8	44.8
86	56.8	51.3	76.9



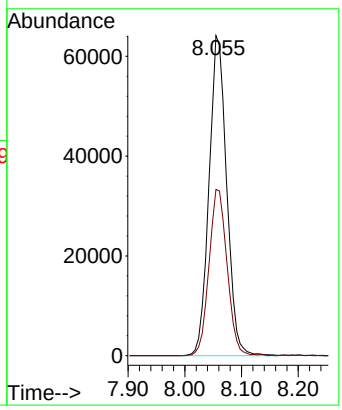


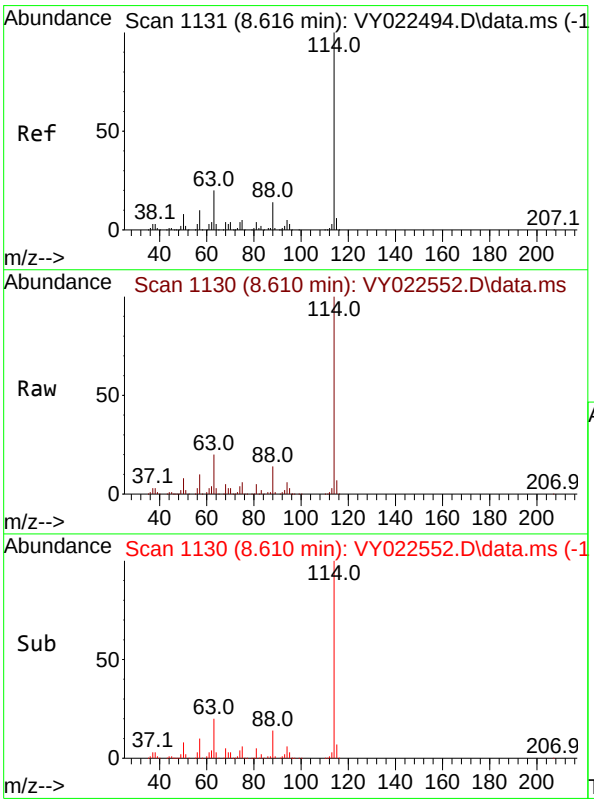
#33
1,2-Dichloroethane-d4
Concen: 44.844 ug/l
RT: 8.055 min Scan# 1
Delta R.T. -0.012 min
Lab File: VY022552.D
Acq: 04 Jun 2025 15:47

Instrument :
MSVOA_Y
ClientSampleId :
B-202-SB02

Tgt Ion: 65 Resp: 138625

Ion	Ratio	Lower	Upper
65	100		
67	53.3	0.0	103.4

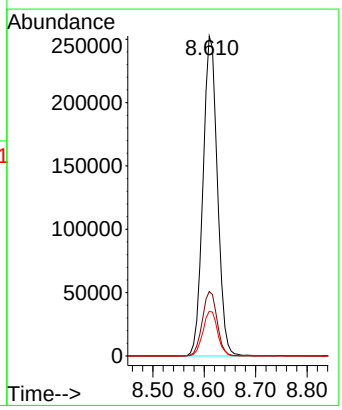


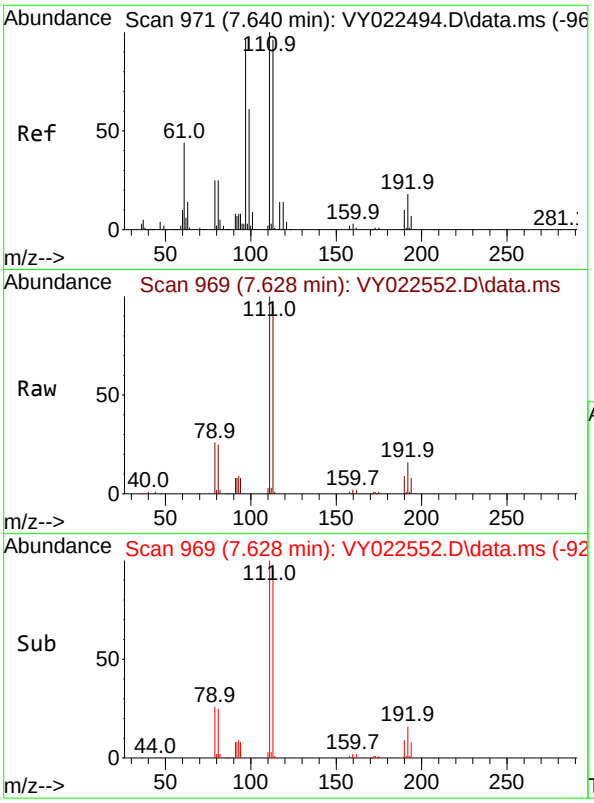


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.610 min Scan# 1130
Delta R.T. -0.006 min
Lab File: VY022552.D
Acq: 04 Jun 2025 15:47

Tgt Ion:114 Resp: 491823

Ion	Ratio	Lower	Upper
114	100		
63	20.2	0.0	40.8
88	14.0	0.0	27.8



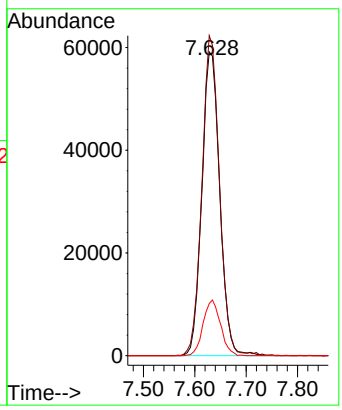


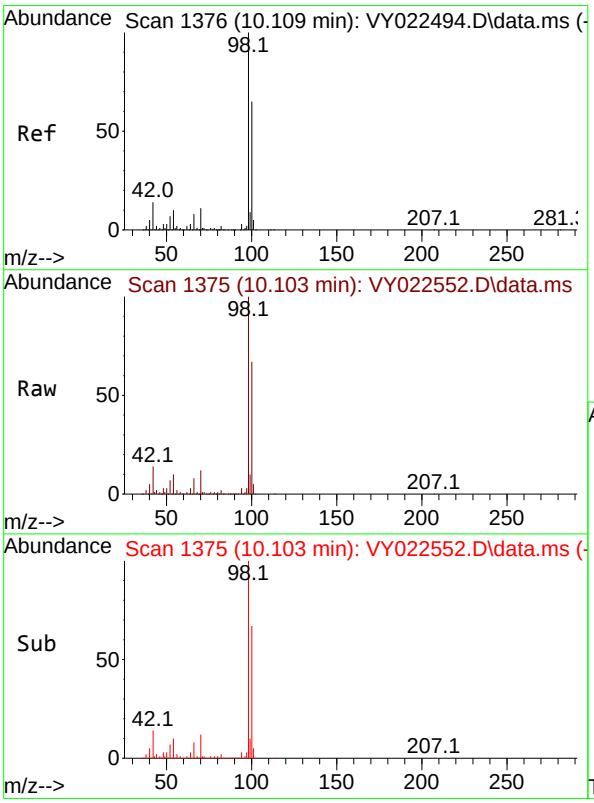
#35
Dibromofluoromethane
Concen: 48.657 ug/l
RT: 7.628 min Scan# 9
Delta R.T. -0.012 min
Lab File: VY022552.D
Acq: 04 Jun 2025 15:47

Instrument :
MSVOA_Y
ClientSampleId :
B-202-SB02

Tgt Ion:113 Resp: 142837

Ion	Ratio	Lower	Upper
113	100		
111	103.6	81.1	121.7
192	17.9	14.2	21.2

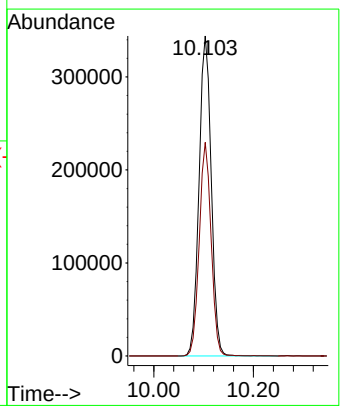


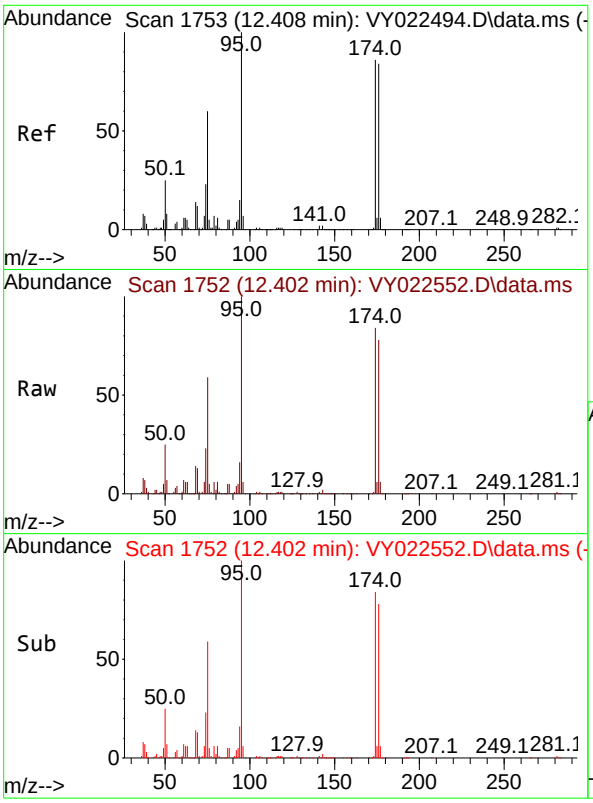


#50
Toluene-d8
Concen: 49.151 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. -0.006 min
Lab File: VY022552.D
Acq: 04 Jun 2025 15:47

Tgt Ion: 98 Resp: 583018

Ion	Ratio	Lower	Upper
98	100		
100	64.9	51.4	77.0



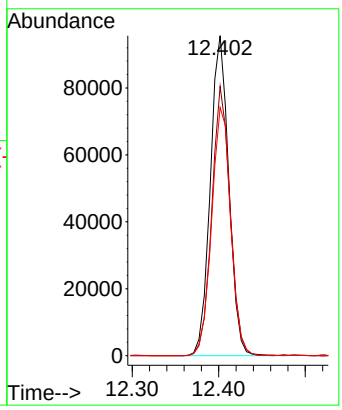


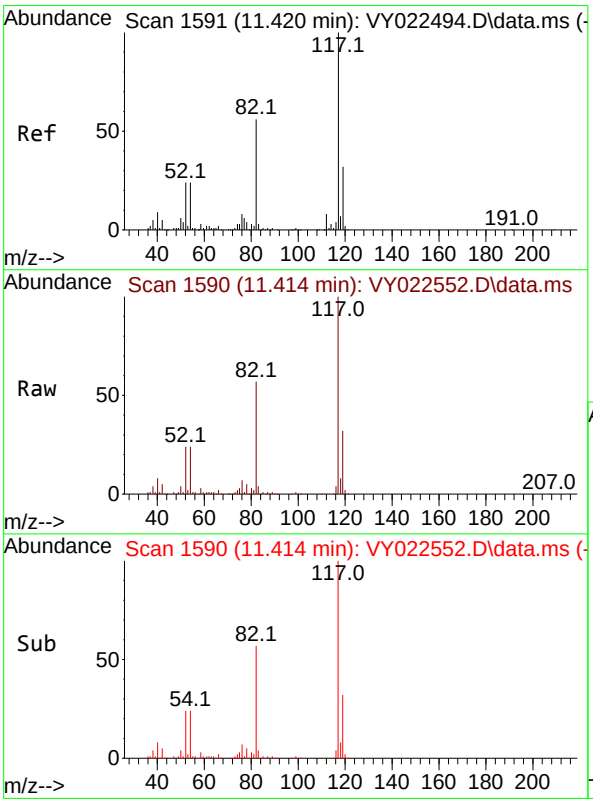
#62
4-Bromofluorobenzene
Concen: 40.034 ug/l
RT: 12.402 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY022552.D
Acq: 04 Jun 2025 15:47

Instrument :
MSVOA_Y
ClientSampleId :
B-202-SB02

Tgt Ion: 95 Resp: 141487

Ion	Ratio	Lower	Upper
95	100		
174	83.7	0.0	170.0
176	80.2	0.0	166.2

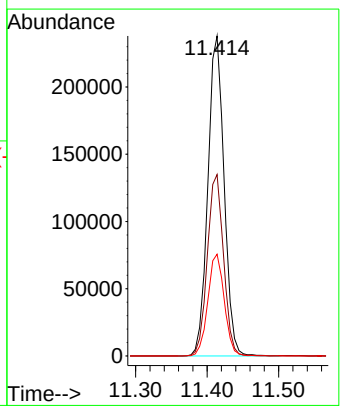


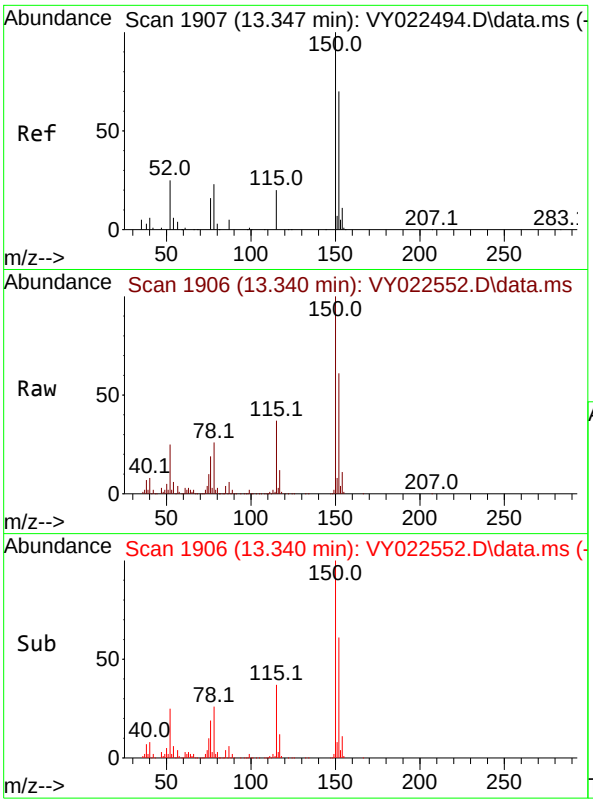


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1590
Delta R.T. -0.006 min
Lab File: VY022552.D
Acq: 04 Jun 2025 15:47

Tgt Ion:117 Resp: 374782

Ion	Ratio	Lower	Upper
117	100		
82	56.7	44.6	66.8
119	31.8	25.4	38.0



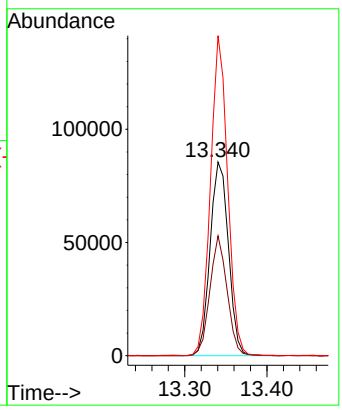


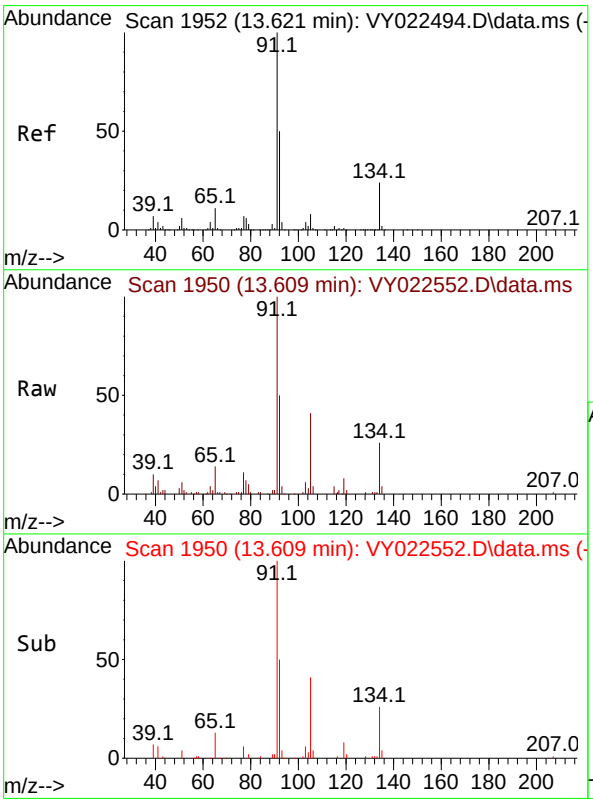
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.340 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY022552.D
Acq: 04 Jun 2025 15:47

Instrument :
MSVOA_Y
ClientSampleId :
B-202-SB02

Tgt Ion:152 Resp: 132509

Ion	Ratio	Lower	Upper
152	100		
115	58.1	28.9	86.7
150	154.8	0.0	349.6

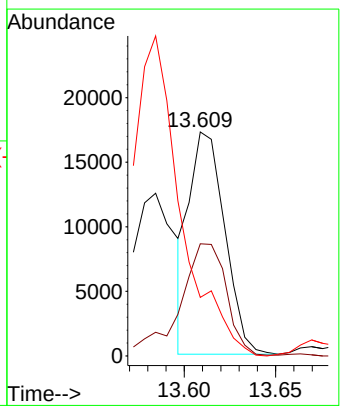




#89
n-Butylbenzene
Concen: 2.537 ug/l
RT: 13.609 min Scan# 1950
Delta R.T. -0.012 min
Lab File: VY022552.D
Acq: 04 Jun 2025 15:47

Tgt Ion: 91 Resp: 23297

Ion	Ratio	Lower	Upper
91	100		
92	66.5	25.9	77.8
134	0.0	12.0	36.1#



Sample Results: **VY022552.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY060425\
Data File : VY022552.D
Acq On : 04 Jun 2025 15:47
Operator : SY/MD
Sample : Q2198-01
Misc : 8.06g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-202-SB02

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y060225S.M
Title : SW846 8260

Signal : TIC: VY022552.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.117	52	65	67	rBV2	12124	45136	2.83%	0.291%
2	2.172	70	74	76	rVV4	10135	19165	1.20%	0.124%
3	2.470	118	123	127	rBV2	13699	32268	2.02%	0.208%
4	3.867	344	352	362	rBV	6558	17735	1.11%	0.115%
5	4.098	380	390	402	rBV	17517	48528	3.04%	0.313%
6	4.610	464	474	486	rBV2	20177	59622	3.74%	0.385%
7	7.628	958	969	975	rBV	207267	494591	31.02%	3.194%
8	7.707	975	982	999	rVB	370555	858858	53.86%	5.546%
9	8.055	1030	1039	1051	rBV	187162	420267	26.35%	2.714%
10	8.610	1122	1130	1141	rBV	600728	1172930	73.55%	7.574%
11	10.103	1366	1375	1382	rBV	944292	1594650	100.00%	10.297%
12	10.164	1382	1385	1395	rVB	15401	27950	1.75%	0.180%
13	11.414	1581	1590	1602	rBV	779930	1250972	78.45%	8.078%
14	12.402	1745	1752	1762	rBV	538476	807974	50.67%	5.217%
15	13.036	1852	1856	1864	rVB2	12392	21451	1.35%	0.139%
16	13.340	1900	1906	1916	rBV	589216	906480	56.85%	5.854%
17	13.511	1927	1934	1935	rBV2	30879	42044	2.64%	0.271%
18	13.542	1935	1939	1942	rVV	132115	204127	12.80%	1.318%
19	13.584	1942	1946	1955	rVV4	229742	439706	27.57%	2.839%
20	13.670	1955	1960	1966	rVV5	19986	30341	1.90%	0.196%
21	13.737	1966	1971	1976	rVV	85932	129984	8.15%	0.839%
22	13.804	1976	1982	1984	rVV	190427	302791	18.99%	1.955%
23	13.828	1984	1986	1991	rVV	219384	299694	18.79%	1.935%
24	13.889	1991	1996	2002	rVB	497900	726707	45.57%	4.693%
25	13.993	2007	2013	2018	rVV2	157378	258442	16.21%	1.669%
26	14.072	2018	2026	2030	rVV4	33386	86831	5.45%	0.561%
27	14.127	2030	2035	2040	rVV	122871	192943	12.10%	1.246%
28	14.212	2040	2049	2052	rVV	378209	659402	41.35%	4.258%
29	14.249	2052	2055	2059	rVV	590470	825832	51.79%	5.333%
30	14.298	2059	2063	2066	rVV	199134	306975	19.25%	1.982%
31	14.334	2066	2069	2075	rVV	147296	219135	13.74%	1.415%
32	14.395	2075	2079	2082	rVV	44848	73634	4.62%	0.475%
33	14.438	2082	2086	2089	rVV	94780	141238	8.86%	0.912%
34	14.480	2089	2093	2097	rVV2	140540	256939	16.11%	1.659%
35	14.523	2097	2100	2105	rVV	173185	253318	15.89%	1.636%
36	14.584	2105	2110	2117	rVV2	363535	754657	47.32%	4.873%

Sample Results: **VY022552.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY060425\
Data File : VY022552.D
Acq On : 04 Jun 2025 15:47
Operator : SY/MD
Sample : Q2198-01
Misc : 8.06g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-202-SB02

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y060225S.M
Title : SW846 8260

37	14.651	2117	2121	2127	rVV	166012	247177	15.50%	1.596%
38	14.706	2127	2130	2134	rVV3	14716	23024	1.44%	0.149%
39	14.779	2134	2142	2150	rVV	31939	65619	4.11%	0.424%
40	14.858	2150	2155	2166	rVV	205574	443533	27.81%	2.864%
41	14.962	2166	2172	2180	rVV	96654	169740	10.64%	1.096%
42	15.096	2190	2194	2196	rBV2	14345	21027	1.32%	0.136%
43	15.139	2196	2201	2207	rVB	97699	165500	10.38%	1.069%
44	15.249	2214	2219	2223	rBV2	37670	62829	3.94%	0.406%
45	15.297	2223	2227	2231	rVV4	16417	25266	1.58%	0.163%
46	15.425	2242	2248	2255	rBV	38010	71413	4.48%	0.461%
47	15.590	2271	2275	2284	rVB3	17318	41285	2.59%	0.267%
48	15.706	2287	2294	2302	rVV2	33808	63234	3.97%	0.408%
49	15.785	2302	2307	2312	rVB4	10693	18497	1.16%	0.119%
50	16.175	2365	2371	2378	rVB	24591	47228	2.96%	0.305%
51	16.364	2394	2402	2409	rBV4	14571	37360	2.34%	0.241%

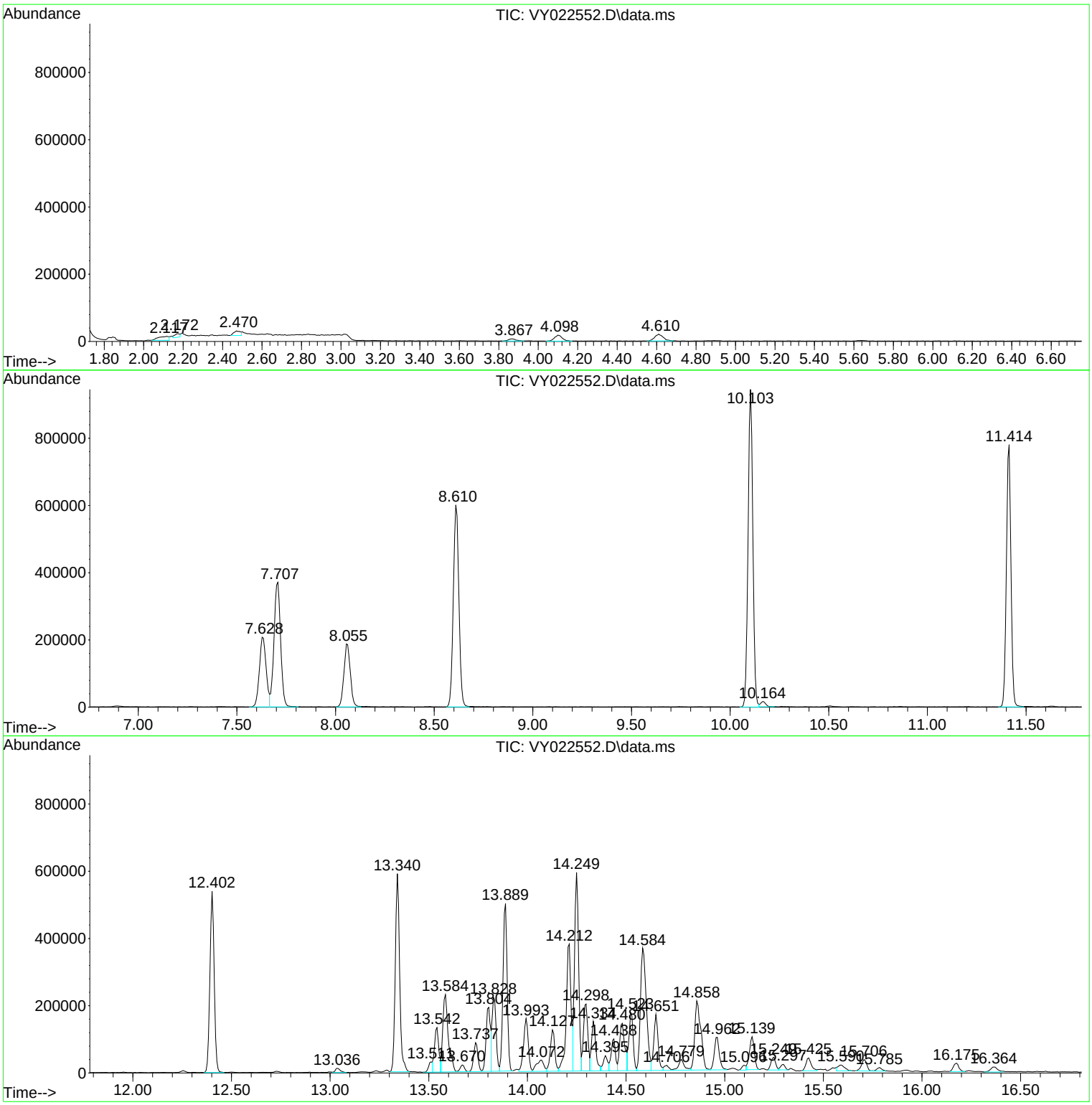
Sum of corrected areas: 15486049

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY060425\
Data File : VY022552.D
Acq On : 04 Jun 2025 15:47
Operator : SY/MD
Sample : Q2198-01
Misc : 8.06g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-202-SB02

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y060225S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY060425\
Data File : VY022552.D
Acq On : 04 Jun 2025 15:47
Operator : SY/MD
Sample : Q2198-01
Misc : 8.06g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-202-SB02

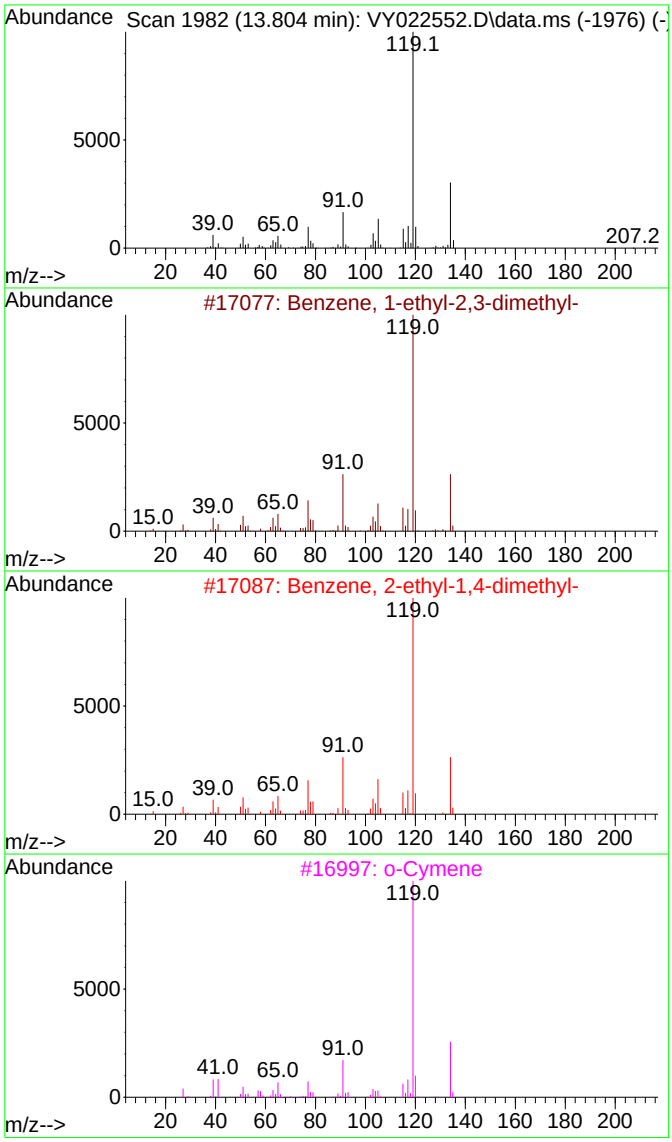
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Quant Title : SW846 8260

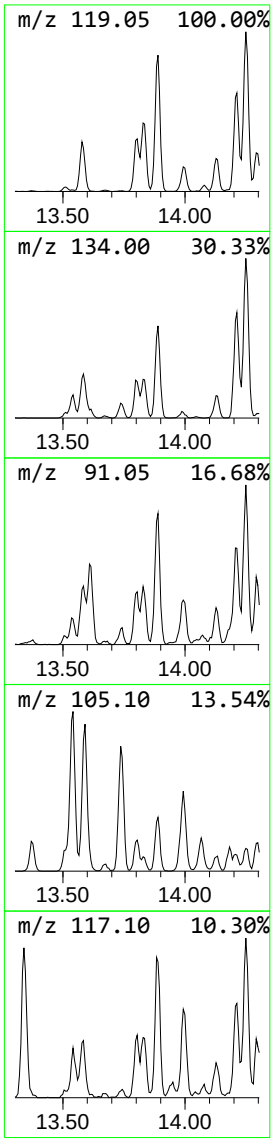
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 1 Benzene, 1-ethyl-2,3-dimethyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.804	16.70 ug/l	302791	1,4-Dichlorobenzene-d4	13.341

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-ethyl-2,3-dimethyl-	134	C10H14	000933-98-2	96
2	Benzene, 2-ethyl-1,4-dimethyl-	134	C10H14	001758-88-9	96
3	o-Cymene	134	C10H14	000527-84-4	95
4	Benzene, 2-ethyl-1,3-dimethyl-	134	C10H14	002870-04-4	94
5	Benzene, 4-ethyl-1,2-dimethyl-	134	C10H14	000934-80-5	94





Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY060425\
Data File : VY022552.D
Acq On : 04 Jun 2025 15:47
Operator : SY/MD
Sample : Q2198-01
Misc : 8.06g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-202-SB02

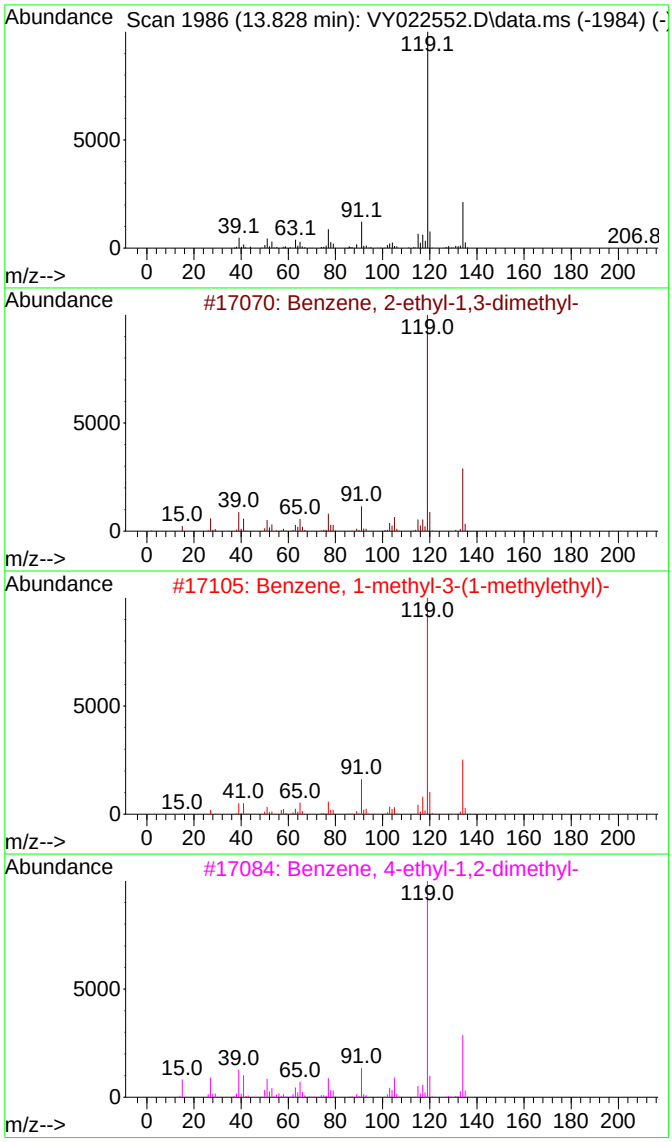
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Quant Title : SW846 8260

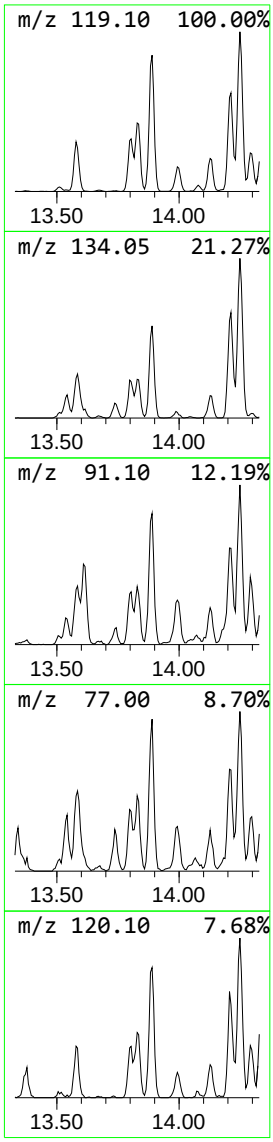
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 2 Benzene, 2-ethyl-1,3-dimethyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.828	16.53 ug/l	299694	1,4-Dichlorobenzene-d4	13.341

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 2-ethyl-1,3-dimethyl-	134	C10H14	002870-04-4	91
2	Benzene, 1-methyl-3-(1-methyleth...	134	C10H14	000535-77-3	91
3	Benzene, 4-ethyl-1,2-dimethyl-	134	C10H14	000934-80-5	91
4	Benzene, 1,2,3,5-tetramethyl-	134	C10H14	000527-53-7	91
5	Benzene, 1,2,3,4-tetramethyl-	134	C10H14	000488-23-3	91





Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY060425\
Data File : VY022552.D
Acq On : 04 Jun 2025 15:47
Operator : SY/MD
Sample : Q2198-01
Misc : 8.06g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-202-SB02

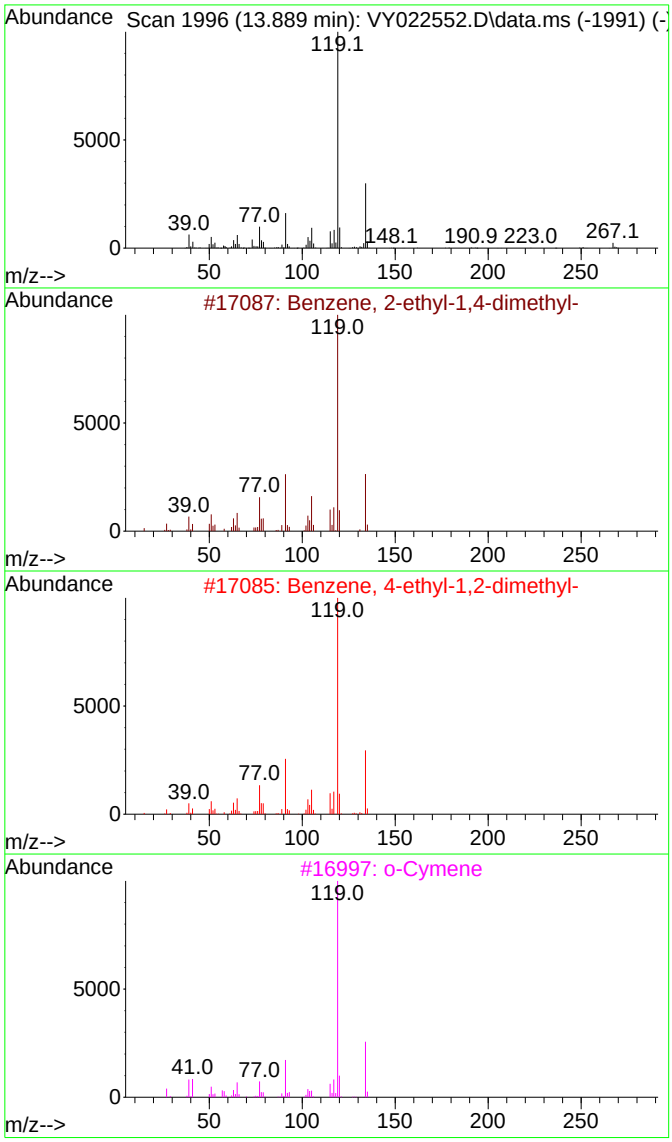
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Quant Title : SW846 8260

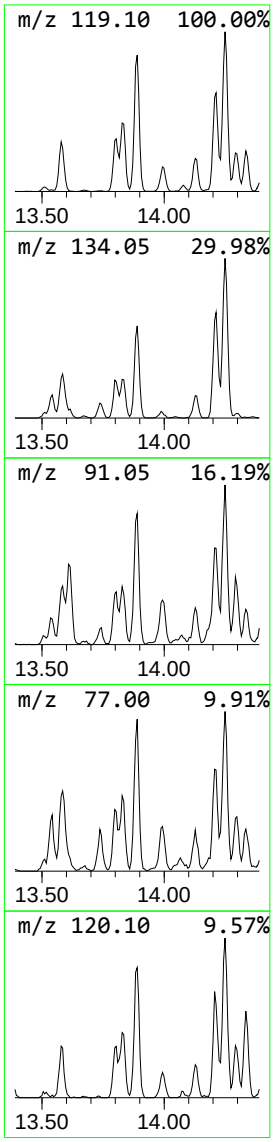
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 3 Benzene, 2-ethyl-1,4-dimethyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.889	40.08 ug/l	726707	1,4-Dichlorobenzene-d4	13.341

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 2-ethyl-1,4-dimethyl-	134	C10H14	001758-88-9	96
2	Benzene, 4-ethyl-1,2-dimethyl-	134	C10H14	000934-80-5	95
3	o-Cymene	134	C10H14	000527-84-4	95
4	p-Cymene	134	C10H14	000099-87-6	95
5	Benzene, 1-methyl-3-(1-methyleth...	134	C10H14	000535-77-3	95





Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY060425\
Data File : VY022552.D
Acq On : 04 Jun 2025 15:47
Operator : SY/MD
Sample : Q2198-01
Misc : 8.06g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-202-SB02

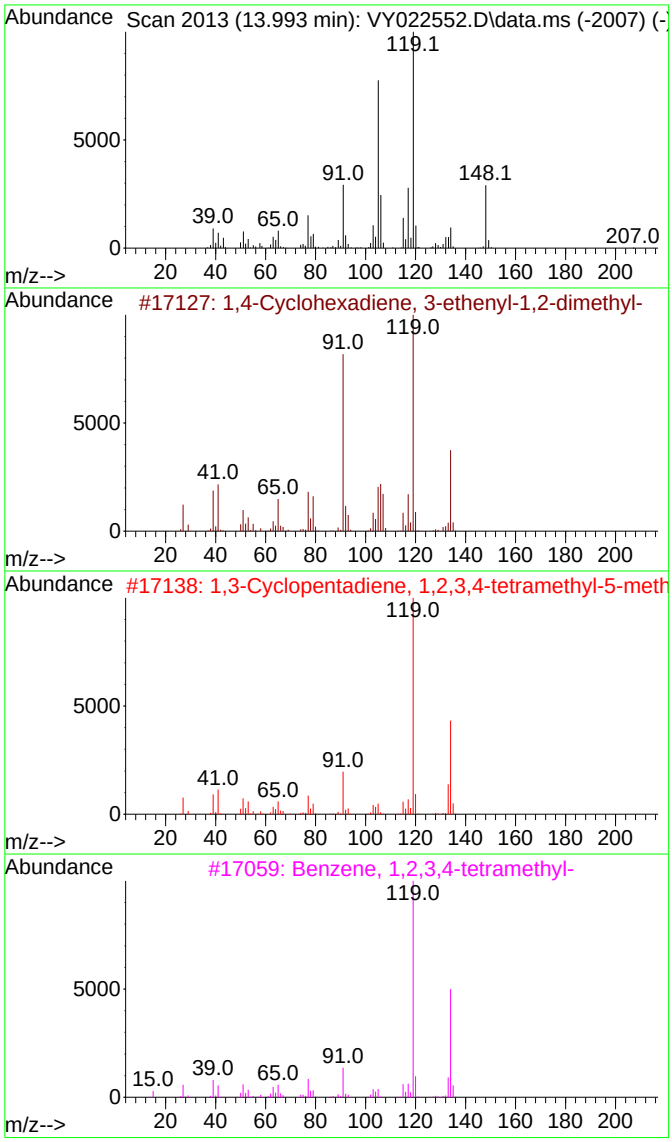
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y060225S.M
Quant Title : SW846 8260

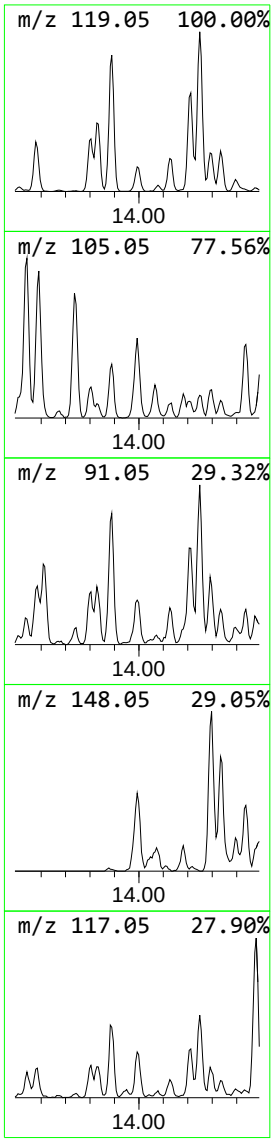
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 4 1,4-Cyclohexadiene, 3-ethen... Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.993	14.26 ug/l	258442	1,4-Dichlorobenzene-d4	13.341

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,4-Cyclohexadiene, 3-ethenyl-1,...	134	C10H14	062338-57-2	64
2	1,3-Cyclopentadiene, 1,2,3,4-tet...	134	C10H14	076089-59-3	60
3	Benzene, 1,2,3,4-tetramethyl-	134	C10H14	000488-23-3	60
4	Benzene, 1-ethyl-3,5-dimethyl-	134	C10H14	000934-74-7	58
5	Benzene, 1-ethyl-2,3-dimethyl-	134	C10H14	000933-98-2	58





Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY060425\
Data File : VY022552.D
Acq On : 04 Jun 2025 15:47
Operator : SY/MD
Sample : Q2198-01
Misc : 8.06g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-202-SB02

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y060225S.M
Quant Title : SW846 8260

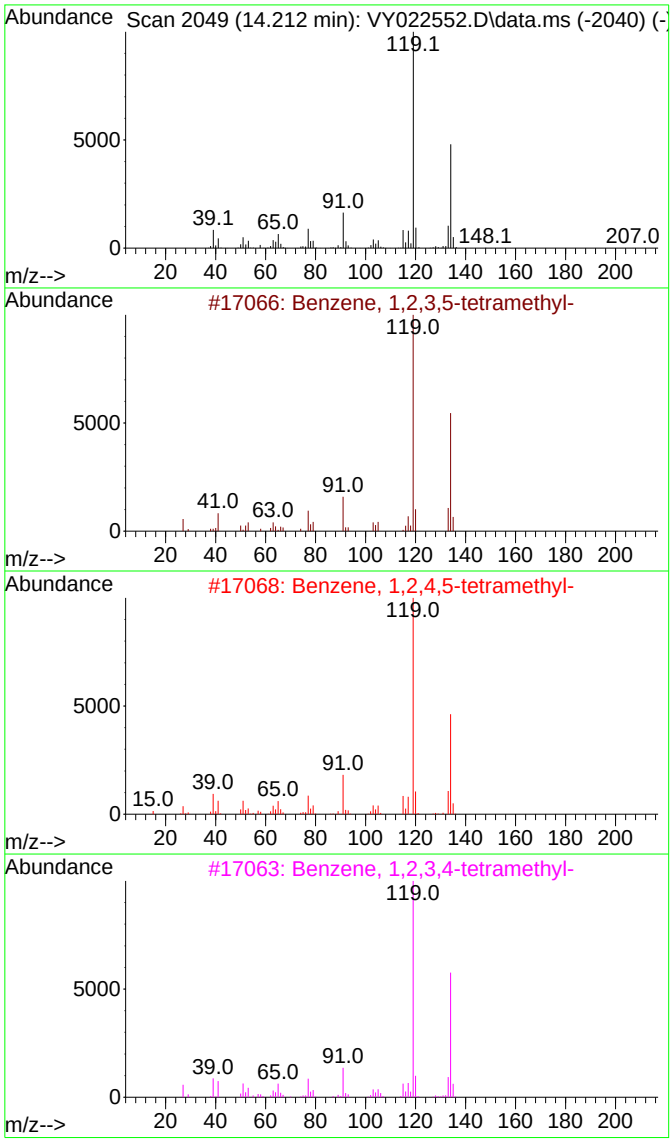
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

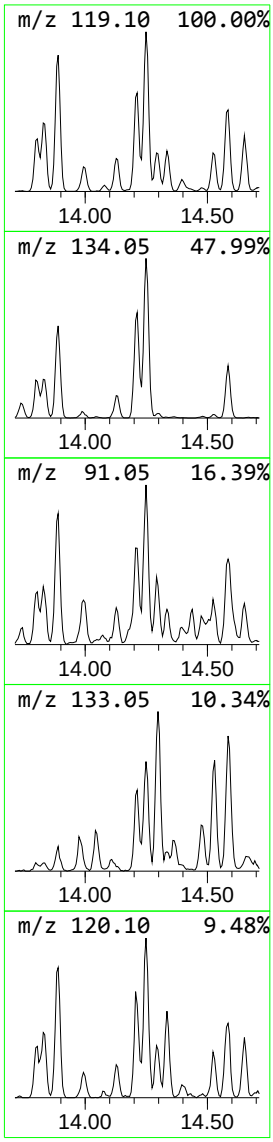
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Peak Number 5 Benzene, 1,2,3,5-tetramethyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.212	36.37 ug/l	659402	1,4-Dichlorobenzene-d4	13.341

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1,2,3,5-tetramethyl-	134	C10H14	000527-53-7	97
2	Benzene, 1,2,4,5-tetramethyl-	134	C10H14	000095-93-2	96
3	Benzene, 1,2,3,4-tetramethyl-	134	C10H14	000488-23-3	95
4	Benzene, 1-ethyl-2,4-dimethyl-	134	C10H14	000874-41-9	93
5	Benzene, 2-ethyl-1,3-dimethyl-	134	C10H14	002870-04-4	93





Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY060425\
Data File : VY022552.D
Acq On : 04 Jun 2025 15:47
Operator : SY/MD
Sample : Q2198-01
Misc : 8.06g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-202-SB02

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y060225S.M
Quant Title : SW846 8260

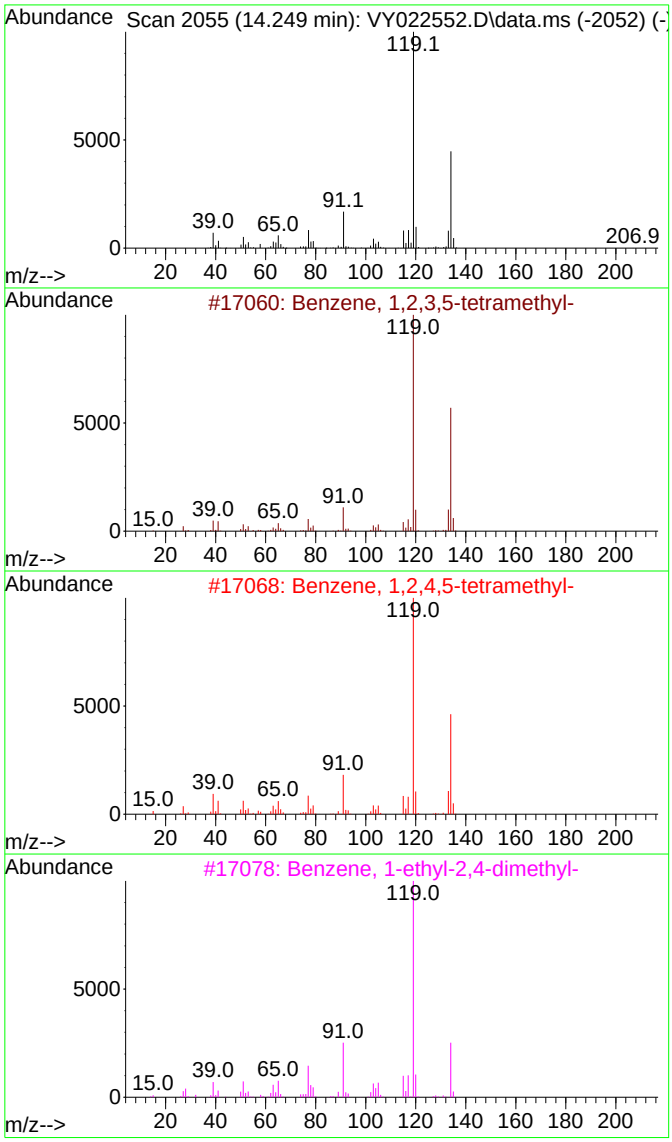
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TIC Integration Parameters: LSCINT.P

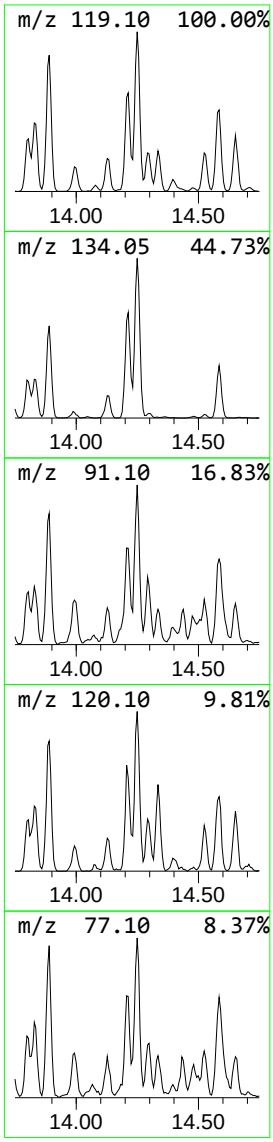
****

Peak Number 6 Benzene, 1,2,4,5-tetramethyl- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.249	45.55 ug/l	825832	1,4-Dichlorobenzene-d4	13.341

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1,2,3,5-tetramethyl-	134	C10H14	000527-53-7	95
2	Benzene, 1,2,4,5-tetramethyl-	134	C10H14	000095-93-2	95
3	Benzene, 1-ethyl-2,4-dimethyl-	134	C10H14	000874-41-9	94
4	Benzene, 1-ethyl-2,3-dimethyl-	134	C10H14	000933-98-2	91
5	Benzene, 1-ethyl-3,5-dimethyl-	134	C10H14	000934-74-7	91





Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY060425\
Data File : VY022552.D
Acq On : 04 Jun 2025 15:47
Operator : SY/MD
Sample : Q2198-01
Misc : 8.06g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-202-SB02

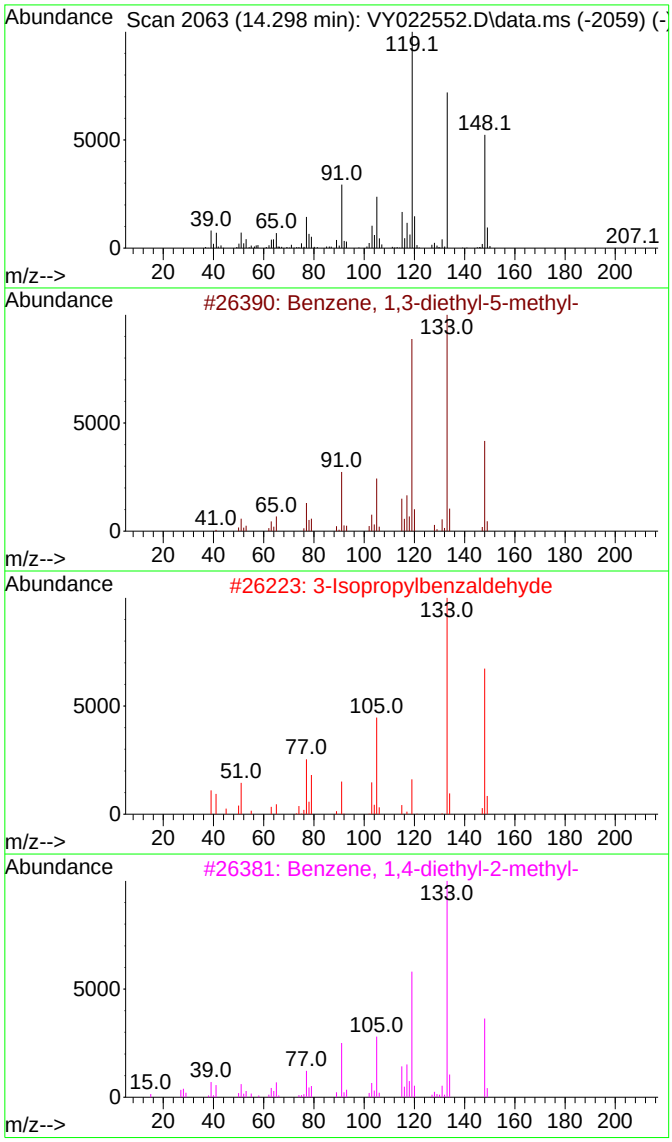
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Quant Title : SW846 8260

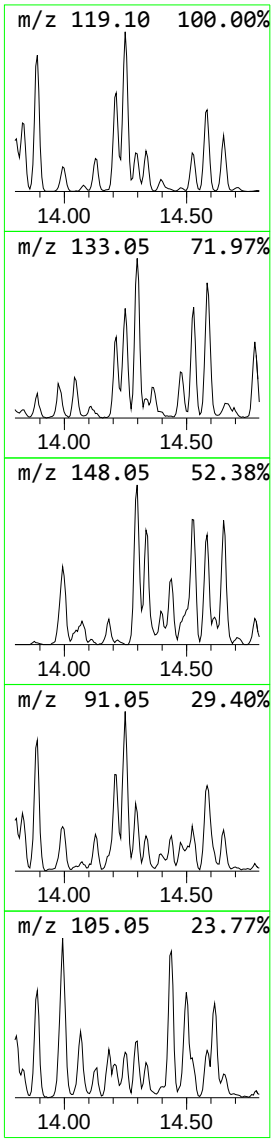
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 7 Benzene, 1,3-diethyl-5-methyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.298	16.93 ug/l	306975	1,4-Dichlorobenzene-d4	13.341

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1,3-diethyl-5-methyl-	148	C11H16	002050-24-0	53
2	3-Isopropylbenzaldehyde	148	C10H12O	034246-57-6	46
3	Benzene, 1,4-diethyl-2-methyl-	148	C11H16	013632-94-5	43
4	Benzene, 1-ethyl-2,3-dimethyl-	134	C10H14	000933-98-2	43
5	Benzene, 1-(1,1-dimethylethyl)-3...	148	C11H16	001075-38-3	43





Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY060425\
Data File : VY022552.D
Acq On : 04 Jun 2025 15:47
Operator : SY/MD
Sample : Q2198-01
Misc : 8.06g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-202-SB02

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y060225S.M
Quant Title : SW846 8260

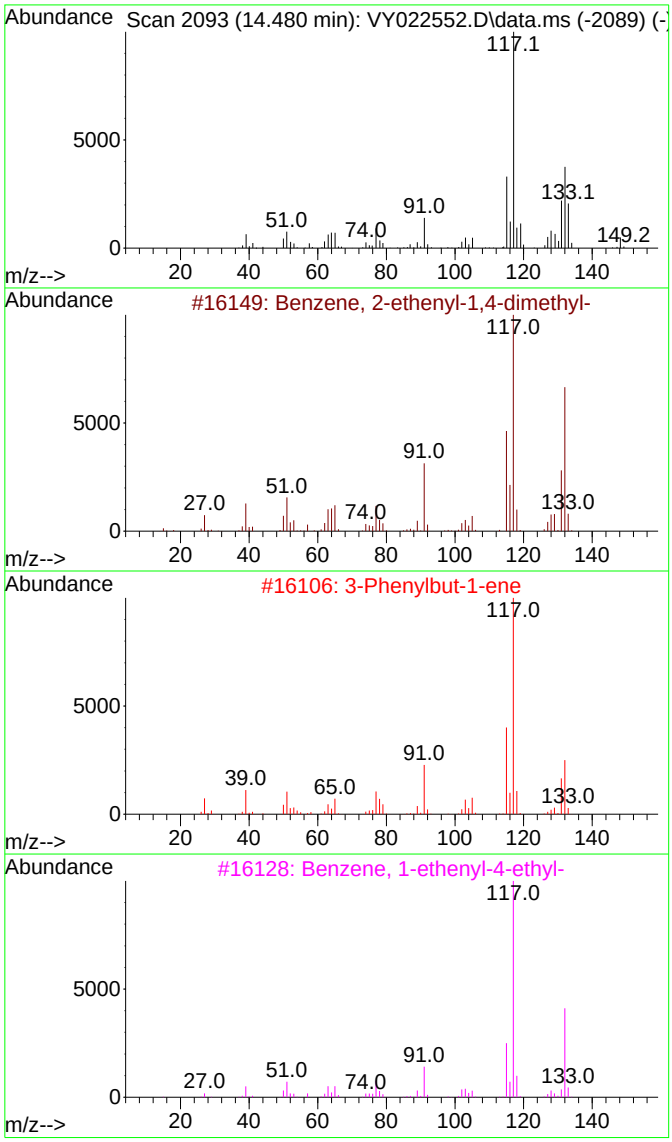
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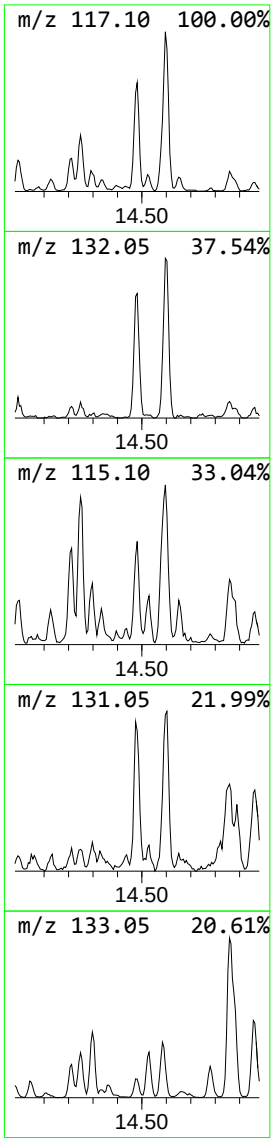
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Peak Number 8 3-Phenylbut-1-ene Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.480	14.17 ug/l	256939	1,4-Dichlorobenzene-d4	13.341

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 2-ethenyl-1,4-dimethyl-	132	C10H12	002039-89-6	93
2	3-Phenylbut-1-ene	132	C10H12	000934-10-1	87
3	Benzene, 1-ethenyl-4-ethyl-	132	C10H12	003454-07-7	76
4	1H-Indene, 2,3-dihydro-5-methyl-	132	C10H12	000874-35-1	76
5	Benzene, 1-ethenyl-3-ethyl-	132	C10H12	007525-62-4	76





Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY060425\
Data File : VY022552.D
Acq On : 04 Jun 2025 15:47
Operator : SY/MD
Sample : Q2198-01
Misc : 8.06g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-202-SB02

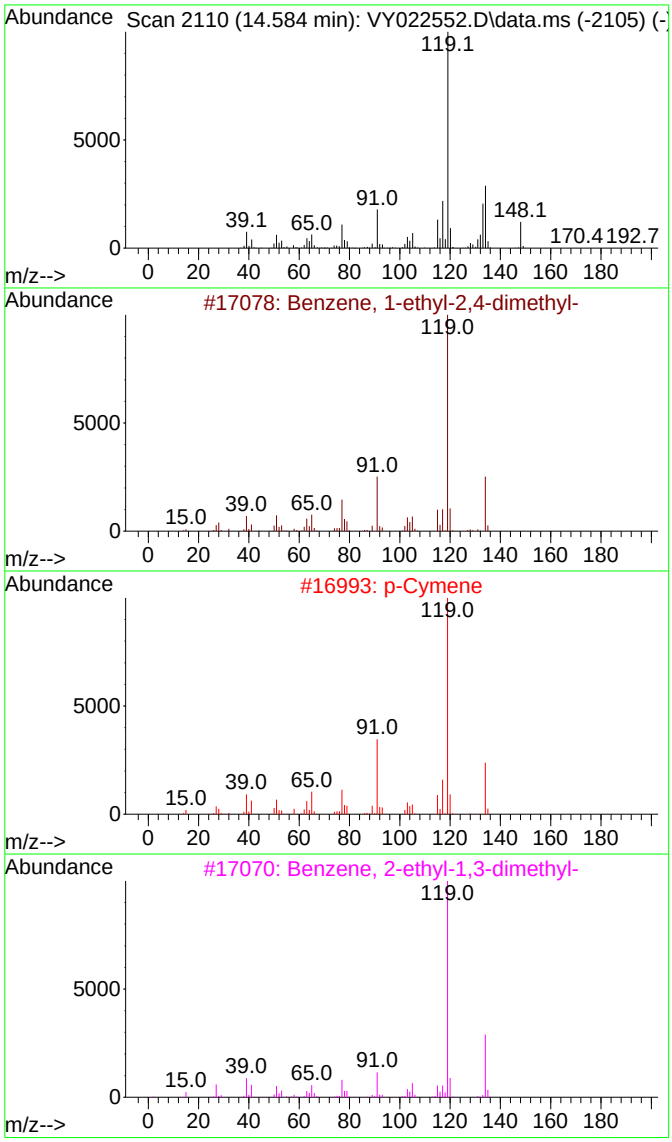
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Quant Title : SW846 8260

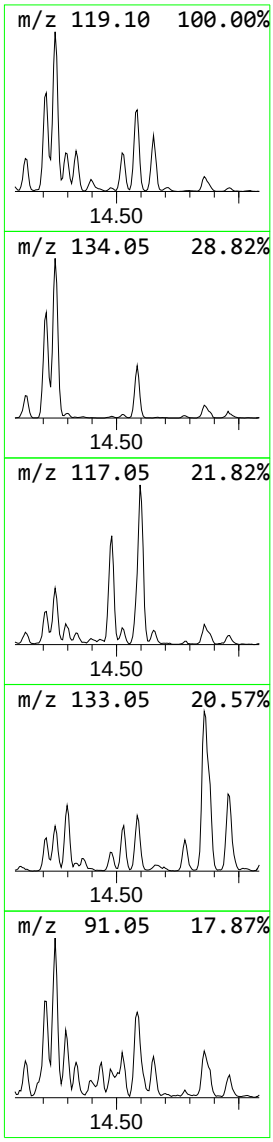
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 9 Benzene, 1-ethyl-2,4-dimethyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.584	41.63 ug/l	754657	1,4-Dichlorobenzene-d4	13.341

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-ethyl-2,4-dimethyl-	134	C10H14	000874-41-9	91
2	p-Cymene	134	C10H14	000099-87-6	76
3	Benzene, 2-ethyl-1,3-dimethyl-	134	C10H14	002870-04-4	70
4	Benzene, 1,2,4,5-tetramethyl-	134	C10H14	000095-93-2	70
5	Benzene, 1,2,3,5-tetramethyl-	134	C10H14	000527-53-7	70





Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY060425\
Data File : VY022552.D
Acq On : 04 Jun 2025 15:47
Operator : SY/MD
Sample : Q2198-01
Misc : 8.06g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-202-SB02

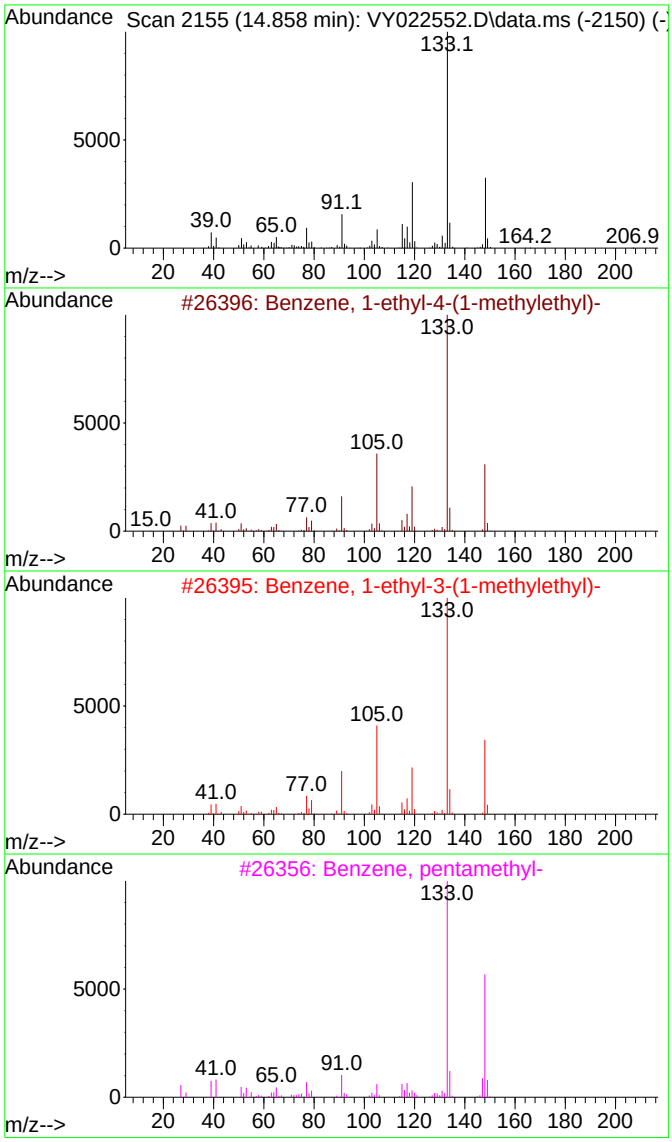
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Quant Title : SW846 8260

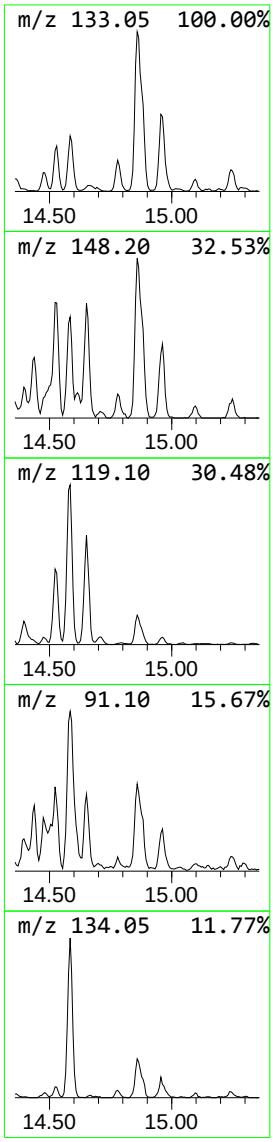
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 10 Benzene, 1-ethyl-4-(1-methy... Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.858	24.46 ug/l	443533	1,4-Dichlorobenzene-d4	13.341

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-ethyl-4-(1-methylethyl)-	148	C11H16	004218-48-8	91
2	Benzene, 1-ethyl-3-(1-methylethyl)-	148	C11H16	004920-99-4	90
3	Benzene, pentamethyl-	148	C11H16	000700-12-9	90
4	Benzene, 1,4-dimethyl-2-(1-methy...	148	C11H16	004132-72-3	87
5	Benzene, 1-(1,1-dimethylethyl)-3...	148	C11H16	001075-38-3	87





Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY060425\
Data File : VY022552.D
Acq On : 04 Jun 2025 15:47
Operator : SY/MD
Sample : Q2198-01
Misc : 8.06g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-202-SB02

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y060225S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Benzene, 1-ethy...	13.804	16.7	ug/l	302791	4	13.341	906480	50.0
Benzene, 2-ethy...	13.828	16.5	ug/l	299694	4	13.341	906480	50.0
Benzene, 2-ethy...	13.889	40.1	ug/l	726707	4	13.341	906480	50.0
1,4-Cyclohexadi...	13.993	14.3	ug/l	258442	4	13.341	906480	50.0
Benzene, 1,2,3,...	14.212	36.4	ug/l	659402	4	13.341	906480	50.0
Benzene, 1,2,4,...	14.249	45.5	ug/l	825832	4	13.341	906480	50.0
Benzene, 1,3-di...	14.298	16.9	ug/l	306975	4	13.341	906480	50.0
3-Phenylbut-1-ene	14.480	14.2	ug/l	256939	4	13.341	906480	50.0
Benzene, 1-ethy...	14.584	41.6	ug/l	754657	4	13.341	906480	50.0
Benzene, 1-ethy...	14.858	24.5	ug/l	443533	4	13.341	906480	50.0

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY060425\
Data File : VY022553.D
Acq On : 04 Jun 2025 16:11
Operator : SY/MD
Sample : Q2198-03
Misc : 4.87g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-207-SB02

Quant Time: Jun 05 04:17:48 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y060225S.M
Quant Title : SW846 8260
QLast Update : Tue Jun 03 03:22:04 2025
Response via : Initial Calibration

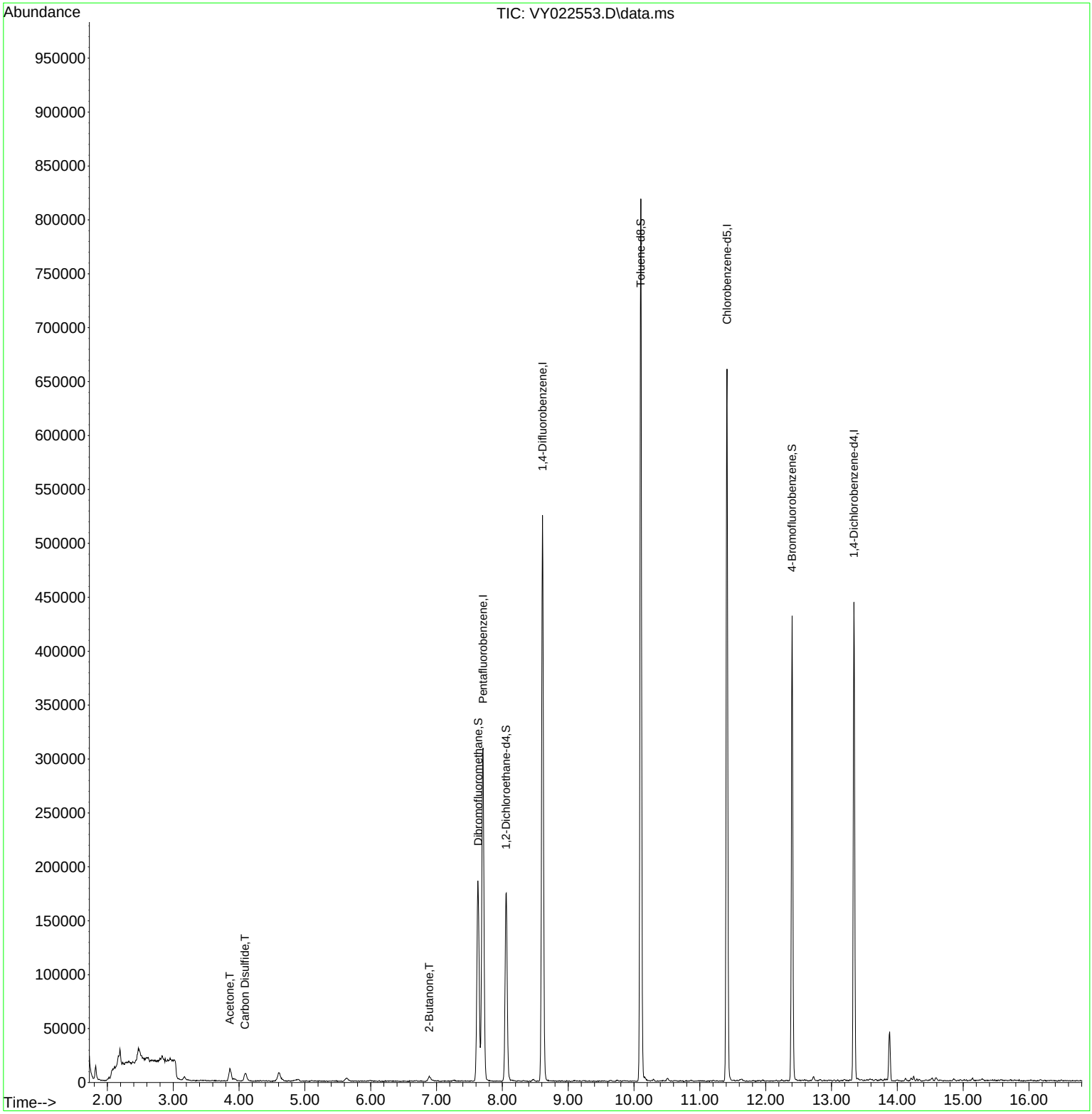
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	231939	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.609	114	422737	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	324979	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.340	152	101553	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.054	65	133287	51.381	ug/l	-0.01
Spiked Amount 50.000	Range 50 - 163		Recovery = 102.760%			
35) Dibromofluoromethane	7.634	113	127878	50.680	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 101.360%			
50) Toluene-d8	10.103	98	504897	49.522	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 99.040%			
62) 4-Bromofluorobenzene	12.401	95	114216	37.599	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 75.200%			
Target Compounds						Qvalue
16) Acetone	3.860	43	19200	36.445	ug/l	100
17) Carbon Disulfide	4.092	76	13600	1.747	ug/l	95
25) 2-Butanone	6.890	43	5702	7.503	ug/l	90

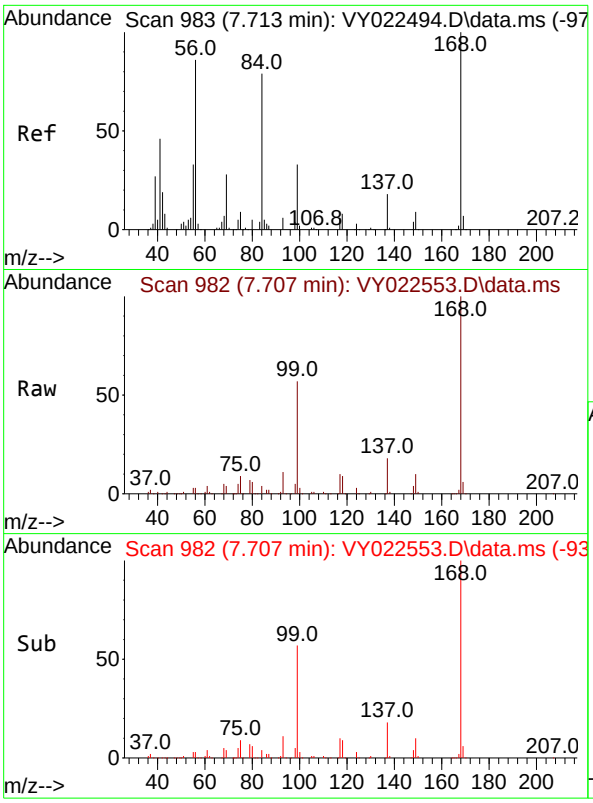
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY060425\
Data File : VY022553.D
Acq On : 04 Jun 2025 16:11
Operator : SY/MD
Sample : Q2198-03
Misc : 4.87g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-207-SB02

Quant Time: Jun 05 04:17:48 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y060225S.M
Quant Title : SW846 8260
QLast Update : Tue Jun 03 03:22:04 2025
Response via : Initial Calibration



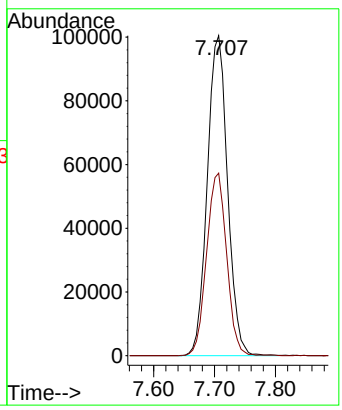


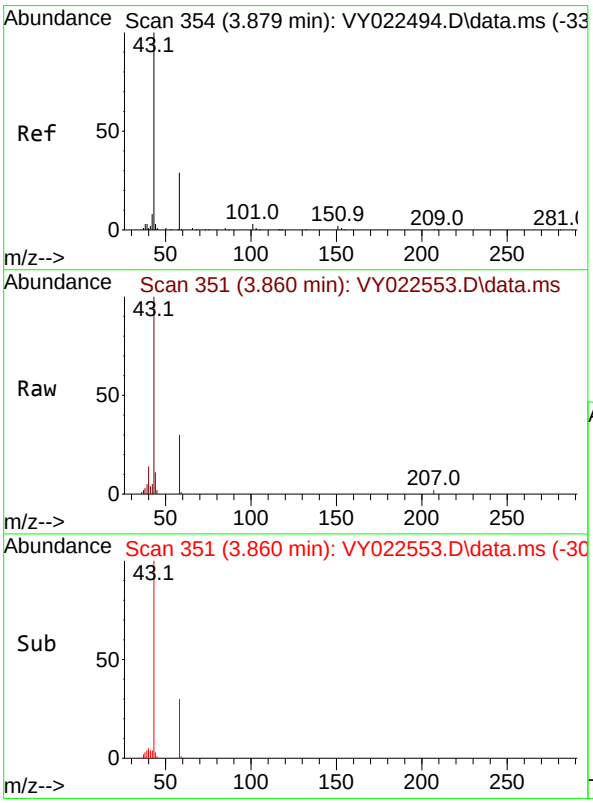
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. -0.006 min
Lab File: VY022553.D
Acq: 04 Jun 2025 16:11

Instrument :
MSVOA_Y
ClientSampleId :
B-207-SB02

Tgt Ion:168 Resp: 231939

Ion	Ratio	Lower	Upper
168	100		
99	57.0	44.3	66.5

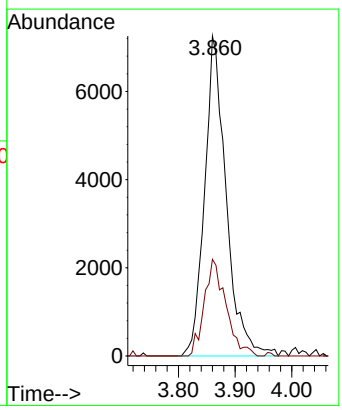


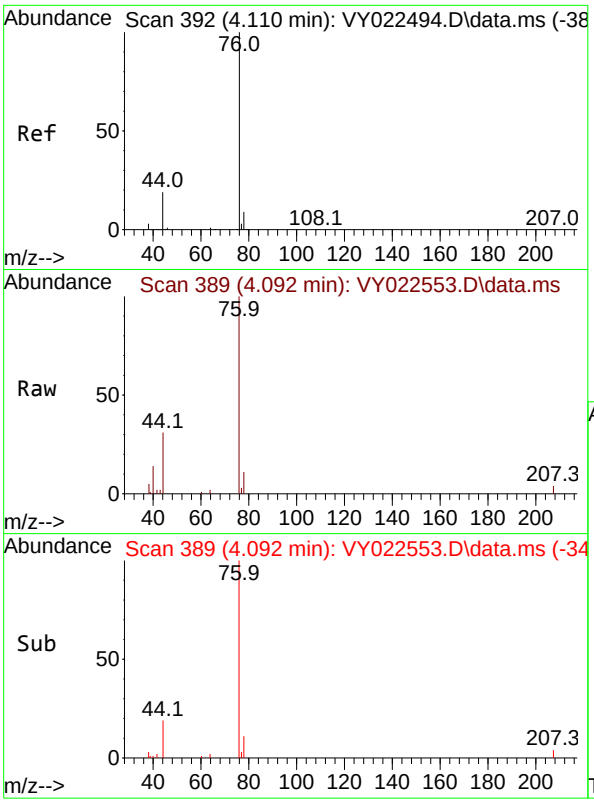


#16
Acetone
Concen: 36.445 ug/l
RT: 3.860 min Scan# 351
Delta R.T. -0.019 min
Lab File: VY022553.D
Acq: 04 Jun 2025 16:11

Tgt Ion: 43 Resp: 19200

Ion	Ratio	Lower	Upper
43	100		
58	30.2	24.0	36.0



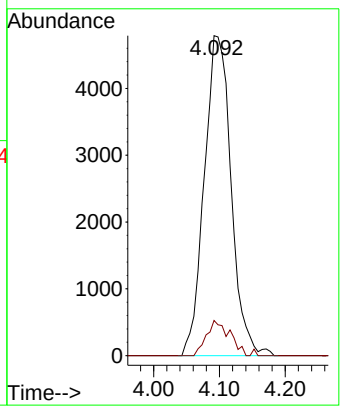


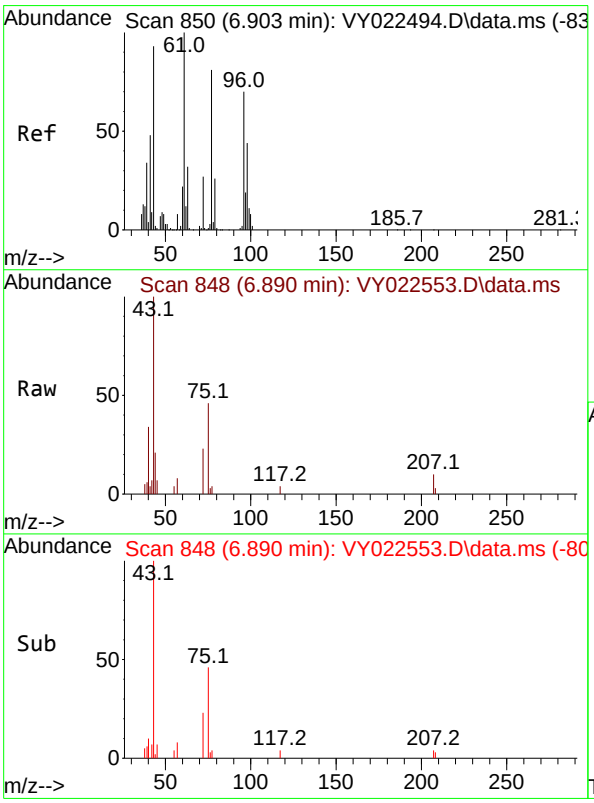
#17
Carbon Disulfide
Concen: 1.747 ug/l
RT: 4.092 min Scan# 3
Delta R.T. -0.019 min
Lab File: VY022553.D
Acq: 04 Jun 2025 16:11

Instrument :
MSVOA_Y
ClientSampleId :
B-207-SB02

Tgt Ion: 76 Resp: 13600

Ion	Ratio	Lower	Upper
76	100		
78	11.0	7.4	11.2

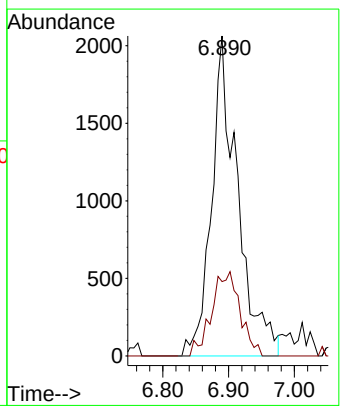




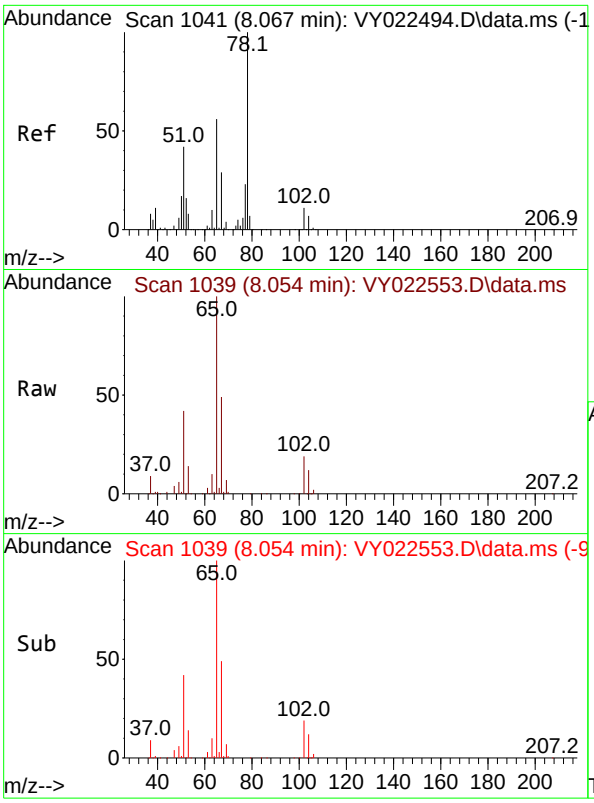
#25
2-Butanone
Concen: 7.503 ug/l
RT: 6.890 min Scan# 848
Delta R.T. -0.013 min
Lab File: VY022553.D
Acq: 04 Jun 2025 16:11

Tgt Ion: 43 Resp: 5702

Ion	Ratio	Lower	Upper
43	100		
72	23.3	22.9	34.3



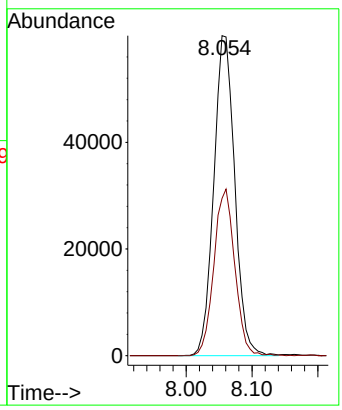
Instrument :
MSVOA_Y
ClientSampleId :
B-207-SB02

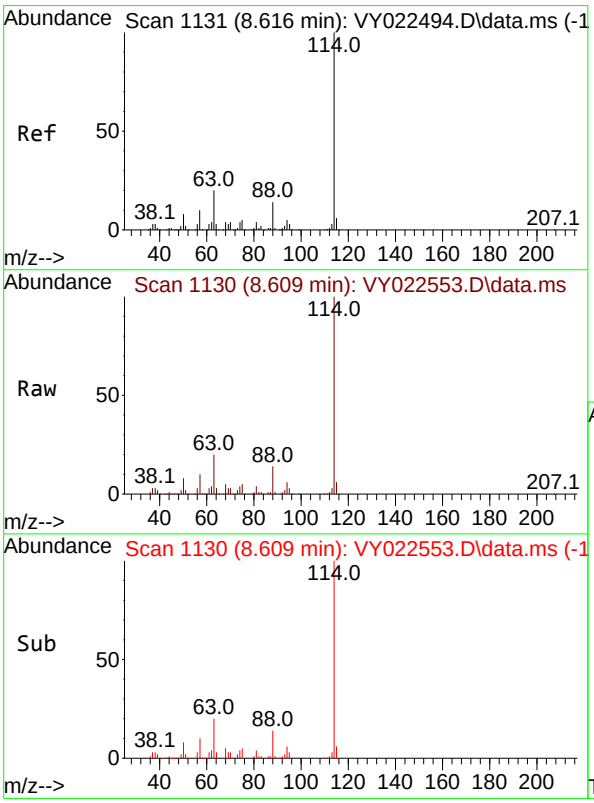


#33
1,2-Dichloroethane-d4
Concen: 51.381 ug/l
RT: 8.054 min Scan# 1
Delta R.T. -0.013 min
Lab File: VY022553.D
Acq: 04 Jun 2025 16:11

Tgt Ion: 65 Resp: 133287

Ion	Ratio	Lower	Upper
65	100		
67	51.9	0.0	103.4

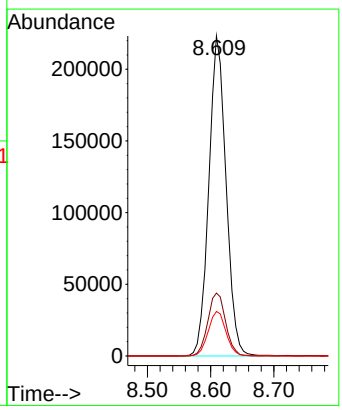


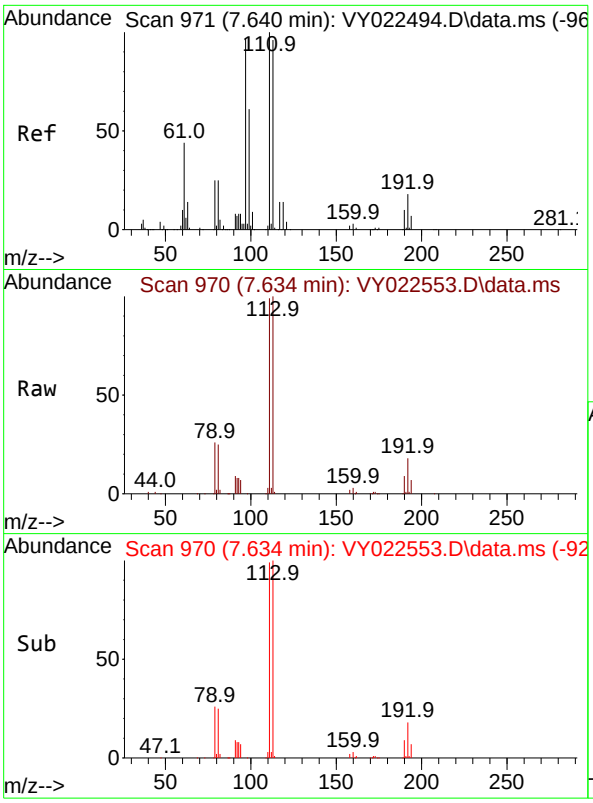


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.609 min Scan# 1130
Delta R.T. -0.007 min
Lab File: VY022553.D
Acq: 04 Jun 2025 16:11

Tgt Ion:114 Resp: 422737

Ion	Ratio	Lower	Upper
114	100		
63	19.6	0.0	40.8
88	13.9	0.0	27.8



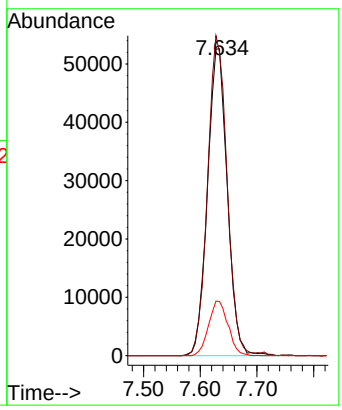


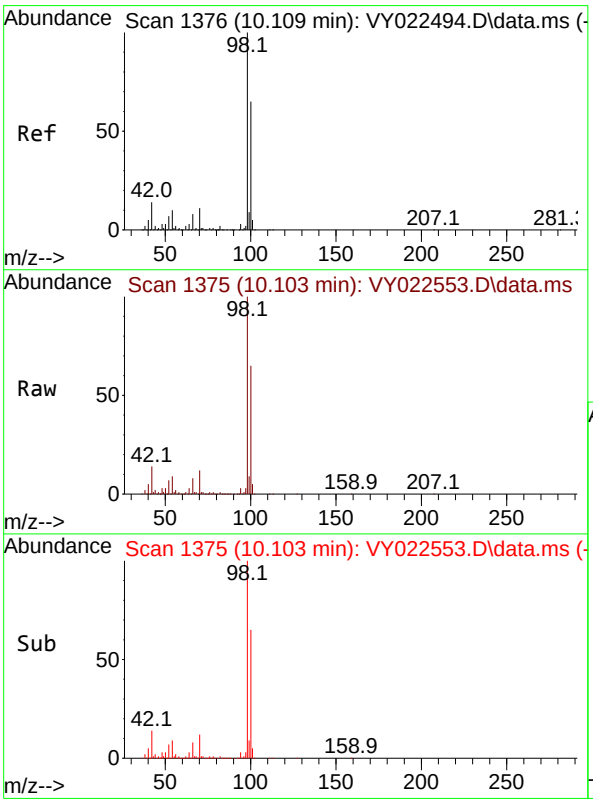
#35
Dibromofluoromethane
Concen: 50.680 ug/l
RT: 7.634 min Scan# 9
Delta R.T. -0.007 min
Lab File: VY022553.D
Acq: 04 Jun 2025 16:11

Instrument :
MSVOA_Y
ClientSampleId :
B-207-SB02

Tgt Ion:113 Resp: 127878

Ion	Ratio	Lower	Upper
113	100		
111	102.1	81.1	121.7
192	17.4	14.2	21.2

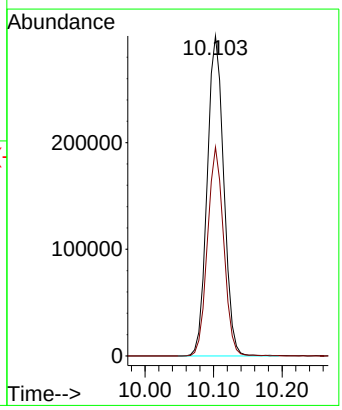


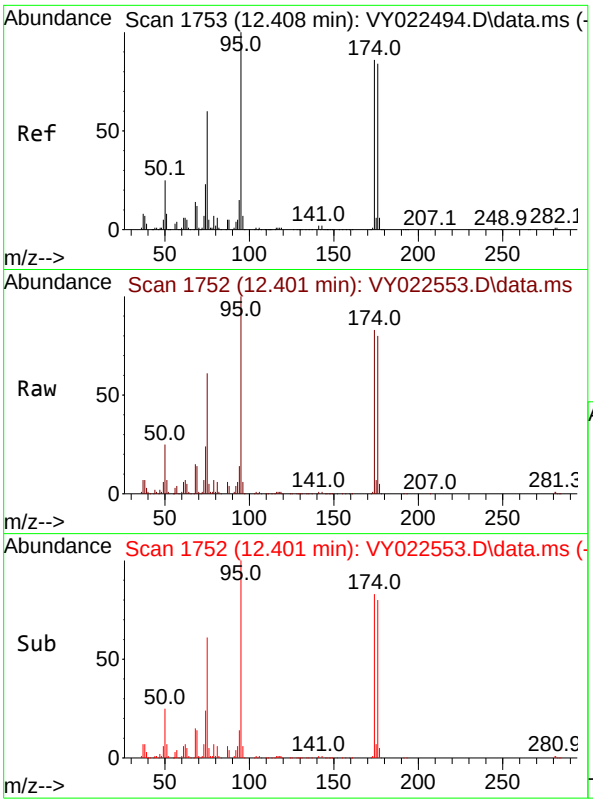


#50
Toluene-d8
Concen: 49.522 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. -0.007 min
Lab File: VY022553.D
Acq: 04 Jun 2025 16:11

Tgt Ion: 98 Resp: 504897

Ion	Ratio	Lower	Upper
98	100		
100	63.8	51.4	77.0



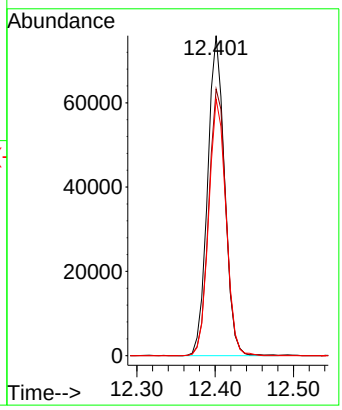


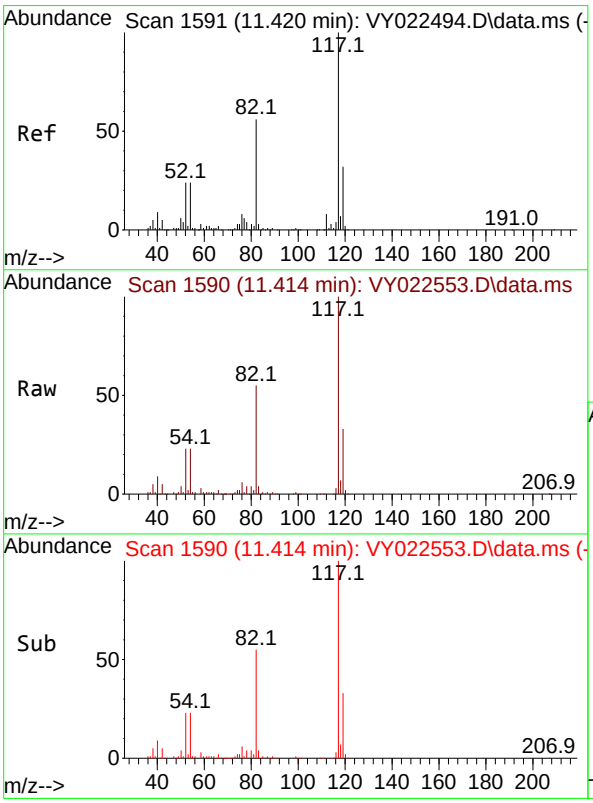
#62
4-Bromofluorobenzene
Concen: 37.599 ug/l
RT: 12.401 min Scan# 1
Delta R.T. -0.007 min
Lab File: VY022553.D
Acq: 04 Jun 2025 16:11

Instrument :
MSVOA_Y
ClientSampleId :
B-207-SB02

Tgt Ion: 95 Resp: 114216

Ion	Ratio	Lower	Upper
95	100		
174	84.7	0.0	170.0
176	81.4	0.0	166.2

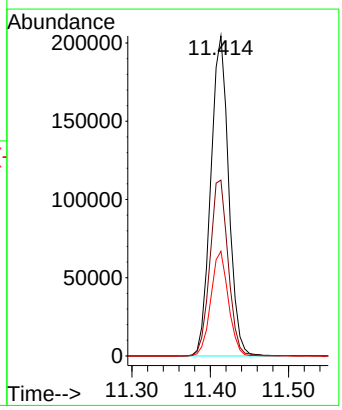


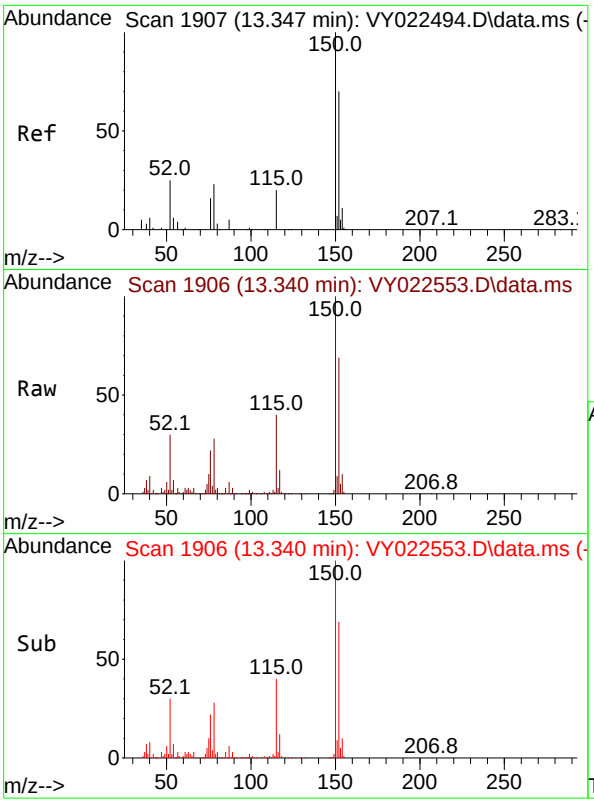


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1590
Delta R.T. -0.007 min
Lab File: VY022553.D
Acq: 04 Jun 2025 16:11

Tgt Ion:117 Resp: 324979

Ion	Ratio	Lower	Upper
117	100		
82	54.9	44.6	66.8
119	32.7	25.4	38.0



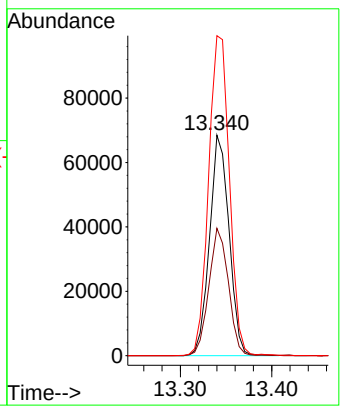


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.340 min Scan# 1
Delta R.T. -0.007 min
Lab File: VY022553.D
Acq: 04 Jun 2025 16:11

Instrument :
MSVOA_Y
ClientSampleId :
B-207-SB02

Tgt Ion:152 Resp: 101553

Ion	Ratio	Lower	Upper
152	100		
115	57.8	28.9	86.7
150	154.8	0.0	349.6



Sample Results: **VY022553.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY060425\
Data File : VY022553.D
Acq On : 04 Jun 2025 16:11
Operator : SY/MD
Sample : Q2198-03
Misc : 4.87g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-207-SB02

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y060225S.M
Title : SW846 8260

Signal : TIC: VY022553.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.824	12	17	23	rVB3	12758	19824	1.44%	0.301%
2	2.080	52	59	60	rBV2	8714	15743	1.14%	0.239%
3	2.190	75	77	82	rVB2	14500	17569	1.28%	0.267%
4	2.470	118	123	129	rBV3	11427	28867	2.10%	0.439%
5	3.860	345	351	358	rBV	11440	28217	2.05%	0.429%
6	4.092	383	389	402	rVB	6971	20767	1.51%	0.316%
7	4.604	464	473	482	rBV5	7721	24972	1.82%	0.379%
8	7.628	957	969	975	rBV	186054	443863	32.28%	6.745%
9	7.707	975	982	996	rVB	308765	721937	52.50%	10.970%
10	8.060	1029	1040	1050	rBV	174630	397377	28.90%	6.038%
11	8.609	1121	1130	1142	rBV	524738	1011575	73.56%	15.371%
12	10.103	1366	1375	1383	rBV	818472	1375228	100.00%	20.897%
13	11.414	1581	1590	1602	rBV	660745	1073392	78.05%	16.311%
14	12.401	1743	1752	1761	rBV	431207	658117	47.86%	10.000%
15	13.340	1899	1906	1913	rBV	443351	668609	48.62%	10.160%
16	13.883	1989	1995	2001	rVB2	45409	74903	5.45%	1.138%

Sum of corrected areas: 6580960

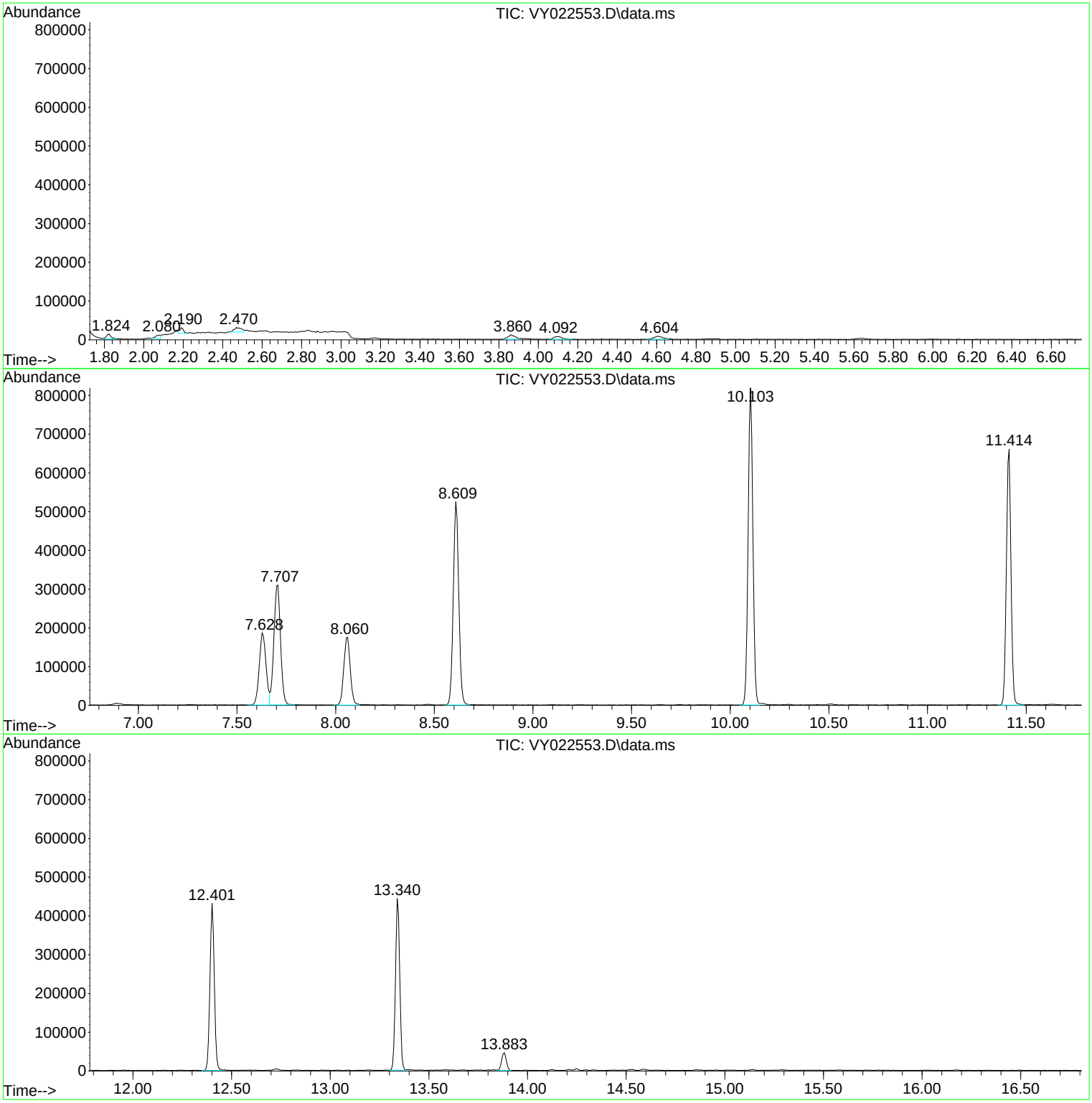
Sample Results: **VY022553.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY060425\
Data File : VY022553.D
Acq On : 04 Jun 2025 16:11
Operator : SY/MD
Sample : Q2198-03
Misc : 4.87g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-207-SB02

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y060225S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY060425\
Data File : VY022553.D
Acq On : 04 Jun 2025 16:11
Operator : SY/MD
Sample : Q2198-03
Misc : 4.87g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-207-SB02

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y060225S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY060425\
Data File : VY022553.D
Acq On : 04 Jun 2025 16:11
Operator : SY/MD
Sample : Q2198-03
Misc : 4.87g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-207-SB02

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y060225S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX060425\
Data File : VX046506.D
Acq On : 04 Jun 2025 17:25
Operator : JC/MD
Sample : Q2198-05
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
B-202-GW01

Quant Time: Jun 05 02:02:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 2025
Response via : Initial Calibration

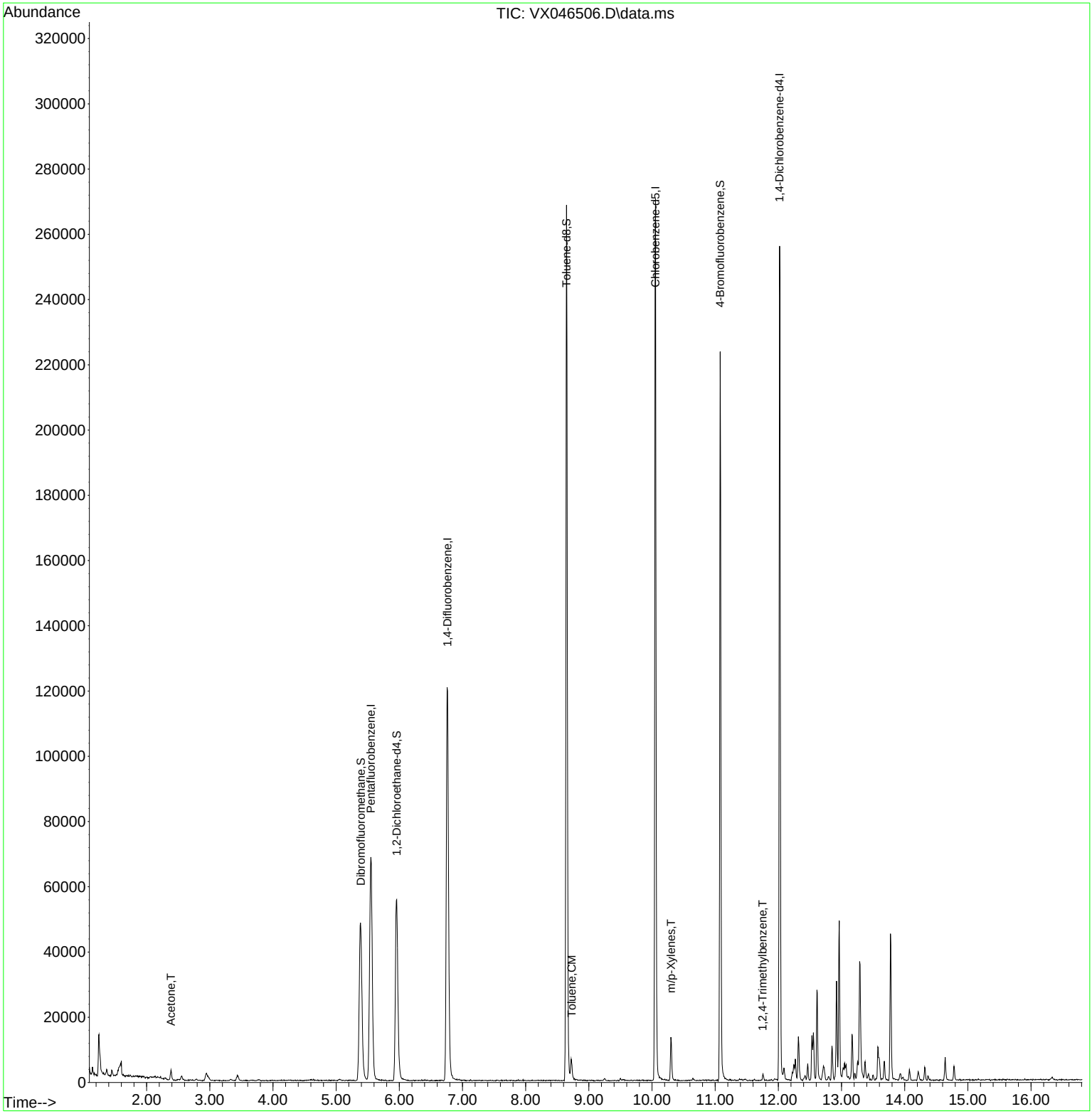
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.550	168	60413	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.763	114	119148	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	111234	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	48853	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.958	65	58784	52.192	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 104.380%			
35) Dibromofluoromethane	5.391	113	43685	50.915	ug/l	0.01
Spiked Amount 50.000	Range 75 - 124		Recovery = 101.840%			
50) Toluene-d8	8.647	98	149002	50.175	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 100.360%			
62) 4-Bromofluorobenzene	11.079	95	59600	52.322	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 104.640%			
Target Compounds						Qvalue
16) Acetone	2.386	43	2996	6.634	ug/l	100
52) Toluene	8.726	92	2404	1.161	ug/l	96
68) m/p-Xylenes	10.299	106	3157	2.011	ug/l	95
84) 1,2,4-Trimethylbenzene	11.750	105	1264	0.393	ug/l	86

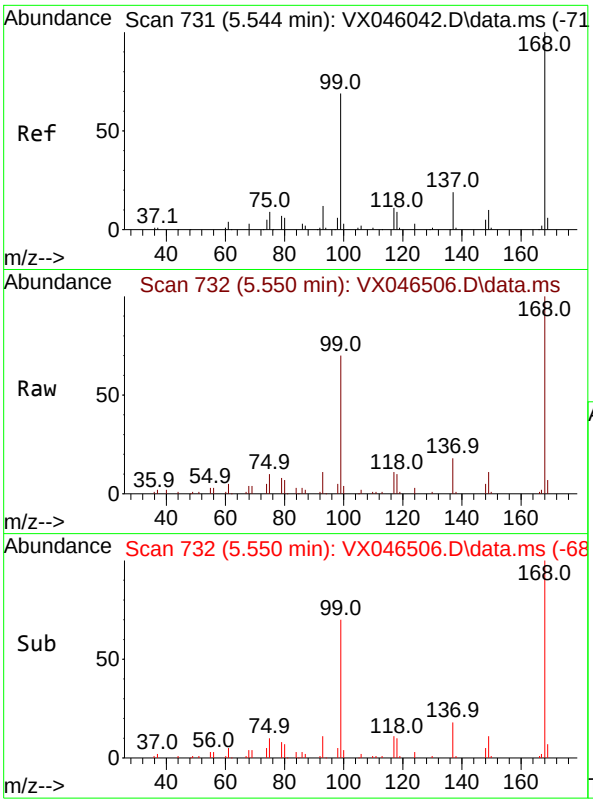
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX060425\
Data File : VX046506.D
Acq On : 04 Jun 2025 17:25
Operator : JC/MD
Sample : Q2198-05
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
B-202-GW01

Quant Time: Jun 05 02:02:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 2025
Response via : Initial Calibration



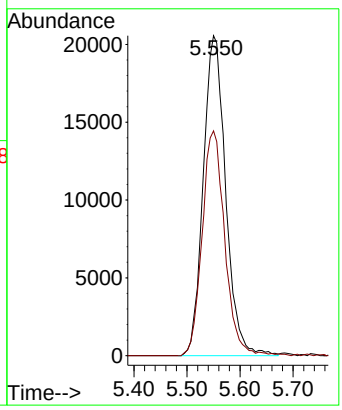


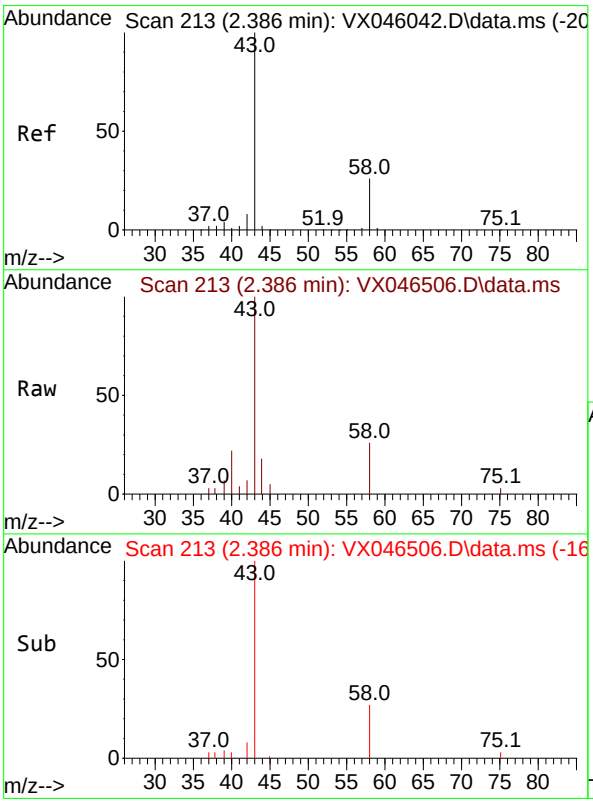
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX046506.D
Acq: 04 Jun 2025 17:25

Instrument :
MSVOA_X
ClientSampleId :
B-202-GW01

Tgt Ion:168 Resp: 60413

Ion	Ratio	Lower	Upper
168	100		
99	70.2	54.9	82.3

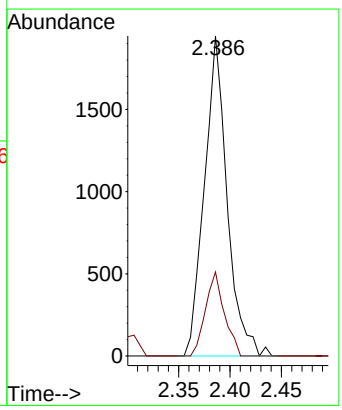


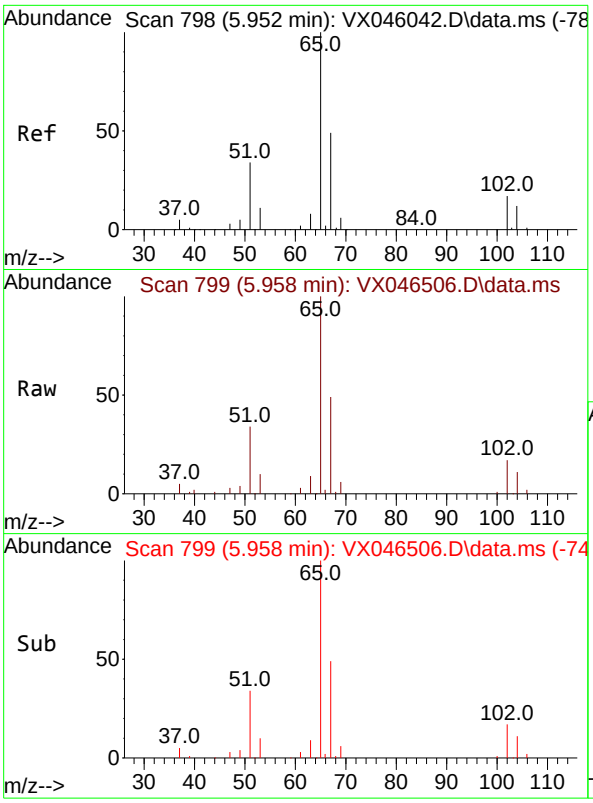


#16
Acetone
Concen: 6.634 ug/l
RT: 2.386 min Scan# 213
Delta R.T. 0.000 min
Lab File: VX046506.D
Acq: 04 Jun 2025 17:25

Tgt Ion: 43 Resp: 2996

Ion	Ratio	Lower	Upper
43	100		
58	26.2	21.2	31.8



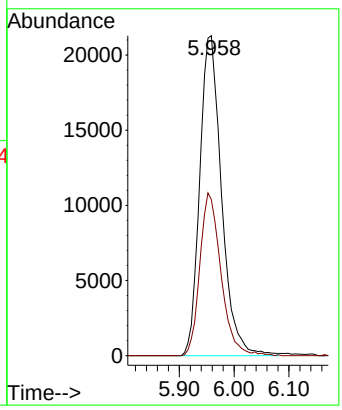


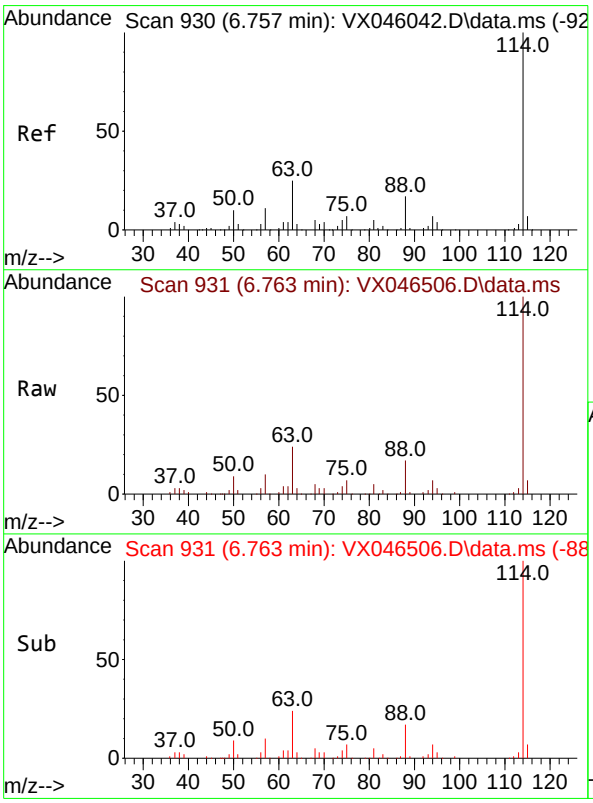
#33
1,2-Dichloroethane-d4
Concen: 52.192 ug/l
RT: 5.958 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX046506.D
Acq: 04 Jun 2025 17:25

Instrument :
MSVOA_X
ClientSampleId :
B-202-GW01

Tgt Ion: 65 Resp: 58784

Ion	Ratio	Lower	Upper
65	100		
67	49.3	0.0	99.0

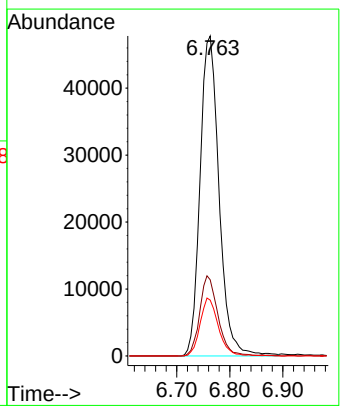


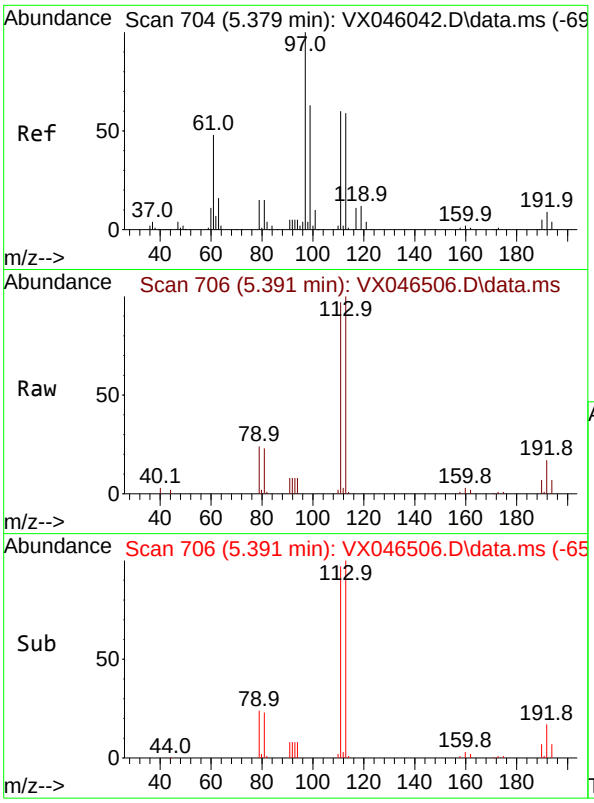


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.763 min Scan# 931
Delta R.T. 0.006 min
Lab File: VX046506.D
Acq: 04 Jun 2025 17:25

Tgt Ion:114 Resp: 119148

Ion	Ratio	Lower	Upper
114	100		
63	23.8	0.0	49.2
88	17.4	0.0	33.6



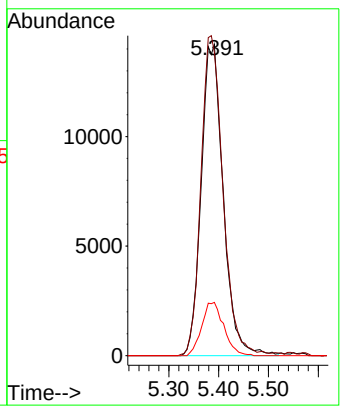


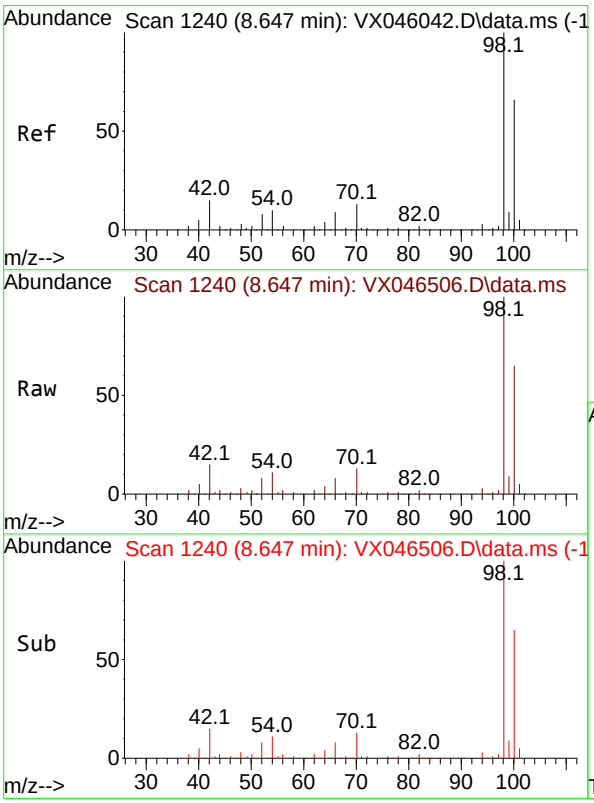
#35
Dibromofluoromethane
Concen: 50.915 ug/l
RT: 5.391 min Scan# 7
Delta R.T. 0.012 min
Lab File: VX046506.D
Acq: 04 Jun 2025 17:25

Instrument :
MSVOA_X
ClientSampleId :
B-202-GW01

Tgt Ion:113 Resp: 43685

Ion	Ratio	Lower	Upper
113	100		
111	102.3	83.1	124.7
192	17.2	13.3	19.9

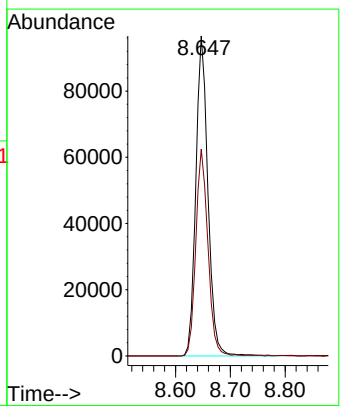


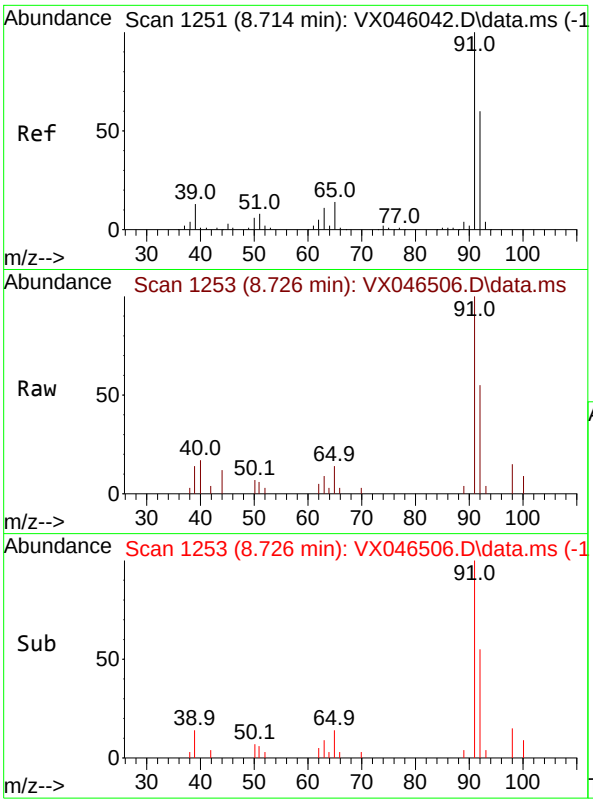


#50
Toluene-d8
Concen: 50.175 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. 0.000 min
Lab File: VX046506.D
Acq: 04 Jun 2025 17:25

Tgt Ion: 98 Resp: 149002

Ion	Ratio	Lower	Upper
98	100		
100	64.6	53.5	80.3



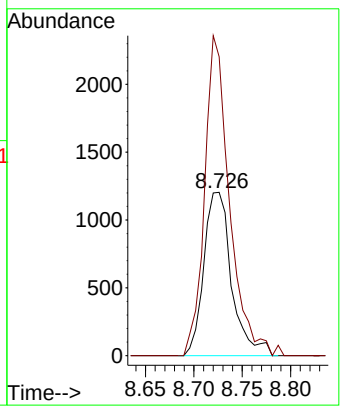


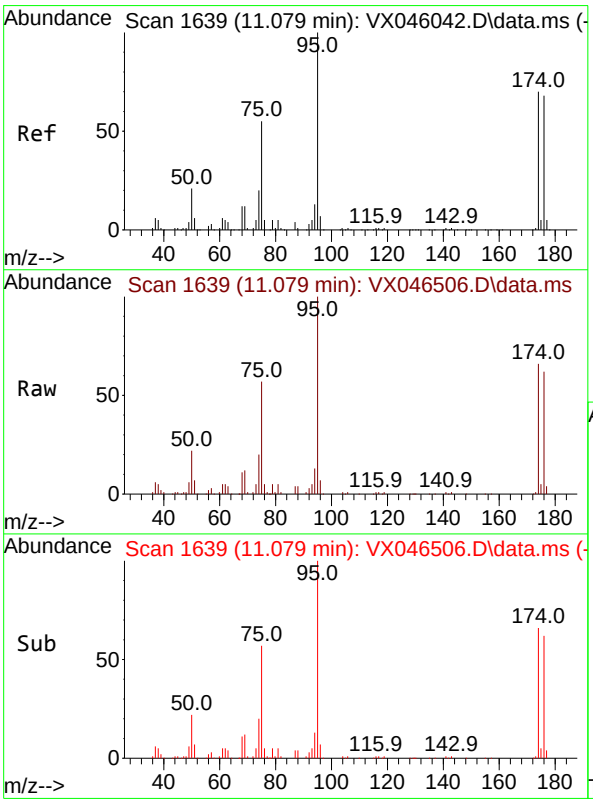
#52
Toluene
Concen: 1.161 ug/l
RT: 8.726 min Scan# 1
Delta R.T. 0.012 min
Lab File: VX046506.D
Acq: 04 Jun 2025 17:25

Instrument :
MSVOA_X
ClientSampleId :
B-202-GW01

Tgt Ion: 92 Resp: 2404

Ion	Ratio	Lower	Upper
92	100		
91	176.2	136.6	205.0

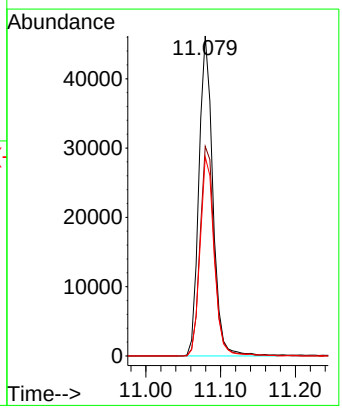


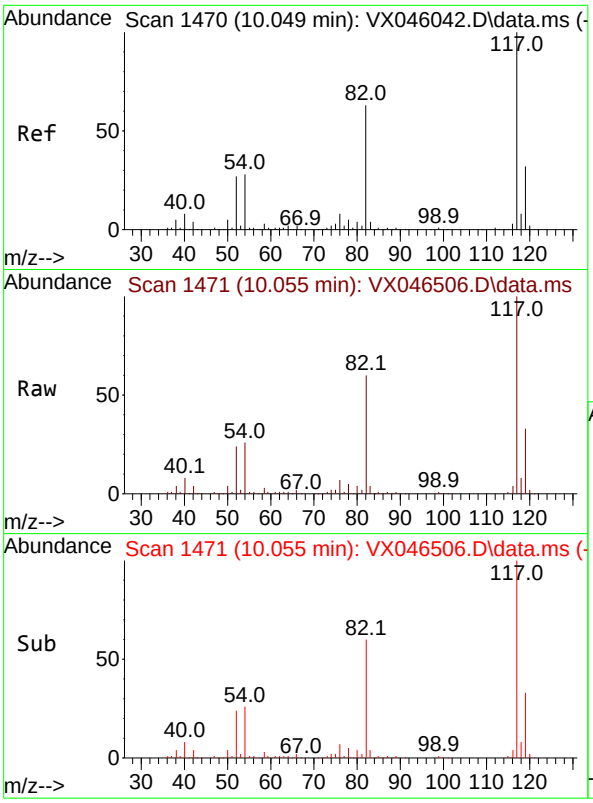


#62
4-Bromofluorobenzene
Concen: 52.322 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX046506.D
Acq: 04 Jun 2025 17:25

Tgt Ion: 95 Resp: 59600

Ion	Ratio	Lower	Upper
95	100		
174	67.9	0.0	135.8
176	63.3	0.0	131.4



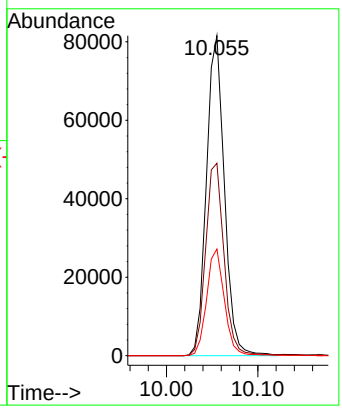


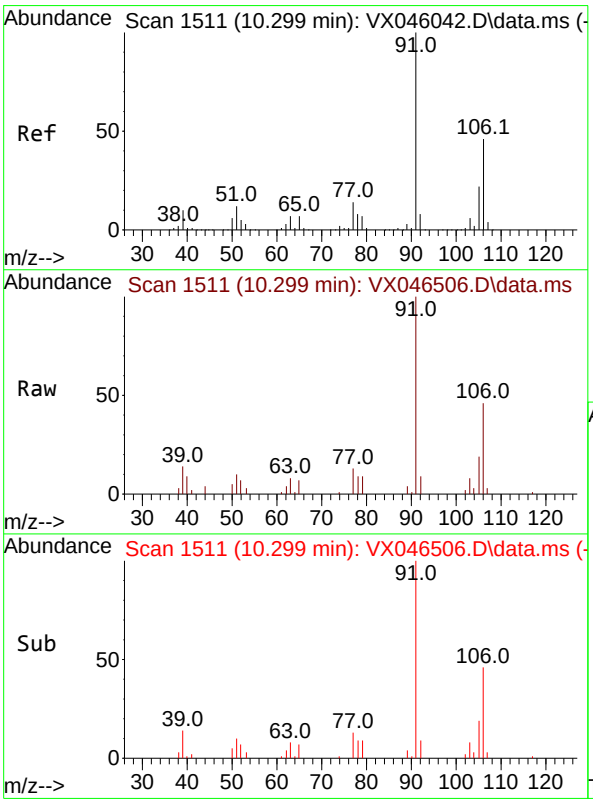
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 14
Delta R.T. 0.006 min
Lab File: VX046506.D
Acq: 04 Jun 2025 17:25

Instrument :
MSVOA_X
ClientSampleId :
B-202-GW01

Tgt Ion:117 Resp: 111234

Ion	Ratio	Lower	Upper
117	100		
82	60.1	50.6	76.0
119	33.4	25.8	38.6

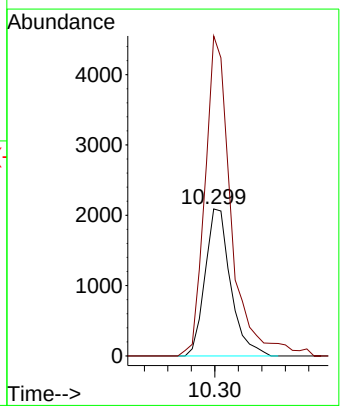


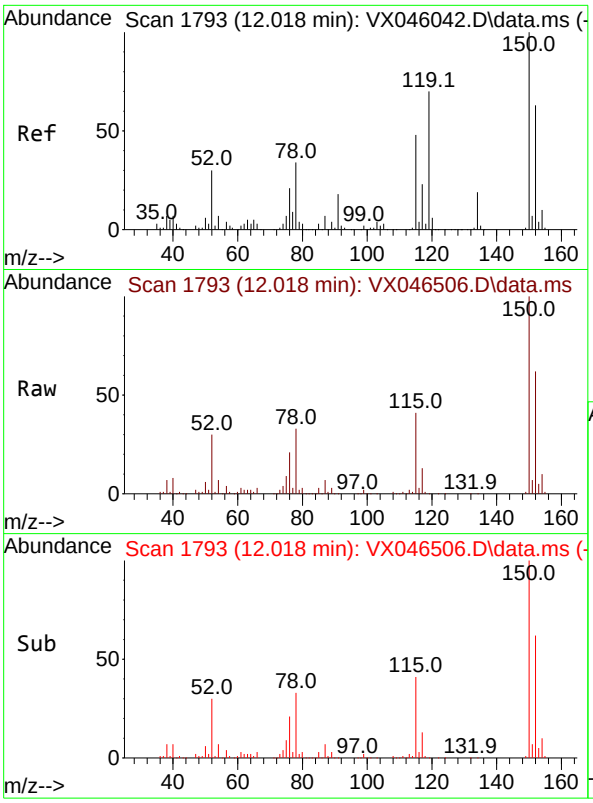


#68
m/p-Xylenes
Concen: 2.011 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. 0.000 min
Lab File: VX046506.D
Acq: 04 Jun 2025 17:25

Tgt Ion:106 Resp: 3157

Ion	Ratio	Lower	Upper
106	100		
91	222.2	171.2	256.8



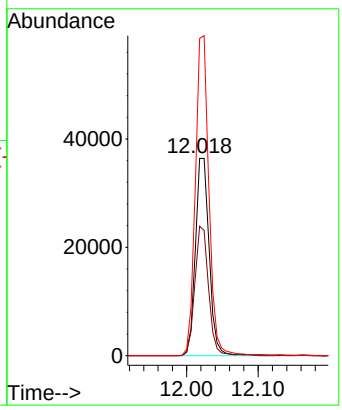


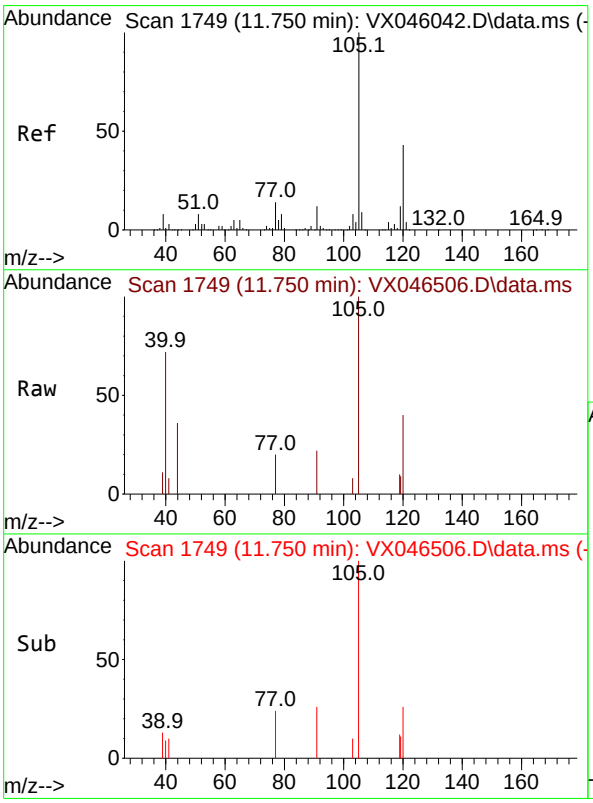
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046506.D
Acq: 04 Jun 2025 17:25

Instrument :
MSVOA_X
ClientSampleId :
B-202-GW01

Tgt Ion:152 Resp: 48853

Ion	Ratio	Lower	Upper
152	100		
115	65.3	46.9	140.7
150	159.4	0.0	351.0

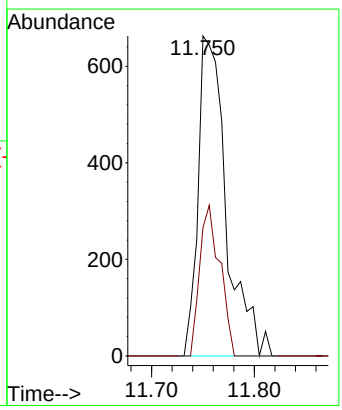




#84
1,2,4-Trimethylbenzene
Concen: 0.393 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VX046506.D
Acq: 04 Jun 2025 17:25

Tgt Ion:105 Resp: 1264

Ion	Ratio	Lower	Upper
105	100		
120	33.8	21.2	63.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX060425\
Data File : VX046506.D
Acq On : 04 Jun 2025 17:25
Operator : JC/MD
Sample : Q2198-05
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
B-202-GW01

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Title : SW846 8260

Signal : TIC: VX046506.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.246	22	26	37	rBV	12729	24218	5.84%	0.885%
2	1.587	73	82	83	rBV5	3400	8135	1.96%	0.297%
3	2.386	205	213	220	rVB	3226	5261	1.27%	0.192%
4	2.947	299	305	319	rBV4	2265	6802	1.64%	0.249%
5	5.385	695	705	721	rBV2	48223	145454	35.05%	5.316%
6	5.550	721	732	745	rVV2	68101	196943	47.46%	7.197%
7	5.958	789	799	815	rBV	55452	153275	36.93%	5.601%
8	6.757	920	930	953	rBV	120604	301970	72.76%	11.035%
9	8.647	1234	1240	1249	rBV	268423	414997	100.00%	15.166%
10	8.720	1249	1252	1259	rVB	6280	10822	2.61%	0.395%
11	10.055	1465	1471	1481	rBV	270152	376501	90.72%	13.759%
12	10.299	1506	1511	1519	rBV	13316	19298	4.65%	0.705%
13	11.079	1634	1639	1651	rBV	223561	288140	69.43%	10.530%
14	12.018	1788	1793	1801	rBV	255729	331799	79.95%	12.126%
15	12.085	1801	1804	1810	rVB2	3484	5343	1.29%	0.195%
16	12.244	1827	1830	1832	rVV3	4890	7096	1.71%	0.259%
17	12.268	1832	1834	1838	rVV	6614	7383	1.78%	0.270%
18	12.317	1838	1842	1853	rVB	13474	20251	4.88%	0.740%
19	12.463	1862	1866	1872	rVV	5122	6153	1.48%	0.225%
20	12.530	1872	1877	1879	rVV	13729	17268	4.16%	0.631%
21	12.555	1879	1881	1886	rVV	14612	16549	3.99%	0.605%
22	12.610	1886	1890	1901	rVV	27682	36951	8.90%	1.350%
23	12.713	1901	1907	1914	rVB5	4381	9825	2.37%	0.359%
24	12.847	1925	1929	1935	rBV	10495	14522	3.50%	0.531%
25	12.921	1935	1941	1944	rVV	30189	36764	8.86%	1.344%
26	12.963	1944	1948	1955	rVV	48390	61618	14.85%	2.252%
27	13.024	1955	1958	1960	rVV4	3152	4621	1.11%	0.169%
28	13.073	1963	1966	1970	rVB2	4005	5074	1.22%	0.185%
29	13.164	1975	1981	1986	rVV2	13819	18297	4.41%	0.669%
30	13.256	1991	1996	1997	rVV2	5246	6538	1.58%	0.239%
31	13.286	1997	2001	2011	rVV2	35852	59341	14.30%	2.169%
32	13.372	2011	2015	2020	rVB2	5039	6794	1.64%	0.248%
33	13.573	2044	2048	2051	rBV2	9890	14292	3.44%	0.522%
34	13.676	2061	2065	2070	rVB2	5721	7260	1.75%	0.265%
35	13.774	2076	2081	2089	rBV	45026	62148	14.98%	2.271%
36	14.073	2125	2130	2135	rBV2	3290	4191	1.01%	0.153%

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX060425\
Data File : VX046506.D
Acq On : 04 Jun 2025 17:25
Operator : JC/MD
Sample : Q2198-05
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
B-202-GW01

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Title : SW846 8260

37	14.213	2149	2153	2159	rBV5	2727	4313	1.04%	0.158%
38	14.317	2166	2170	2176	rVB	4004	5056	1.22%	0.185%
39	14.640	2219	2223	2230	rBV	7024	9068	2.19%	0.331%
40	14.780	2241	2246	2252	rBV2	4343	6030	1.45%	0.220%

Sum of corrected areas: 2736361

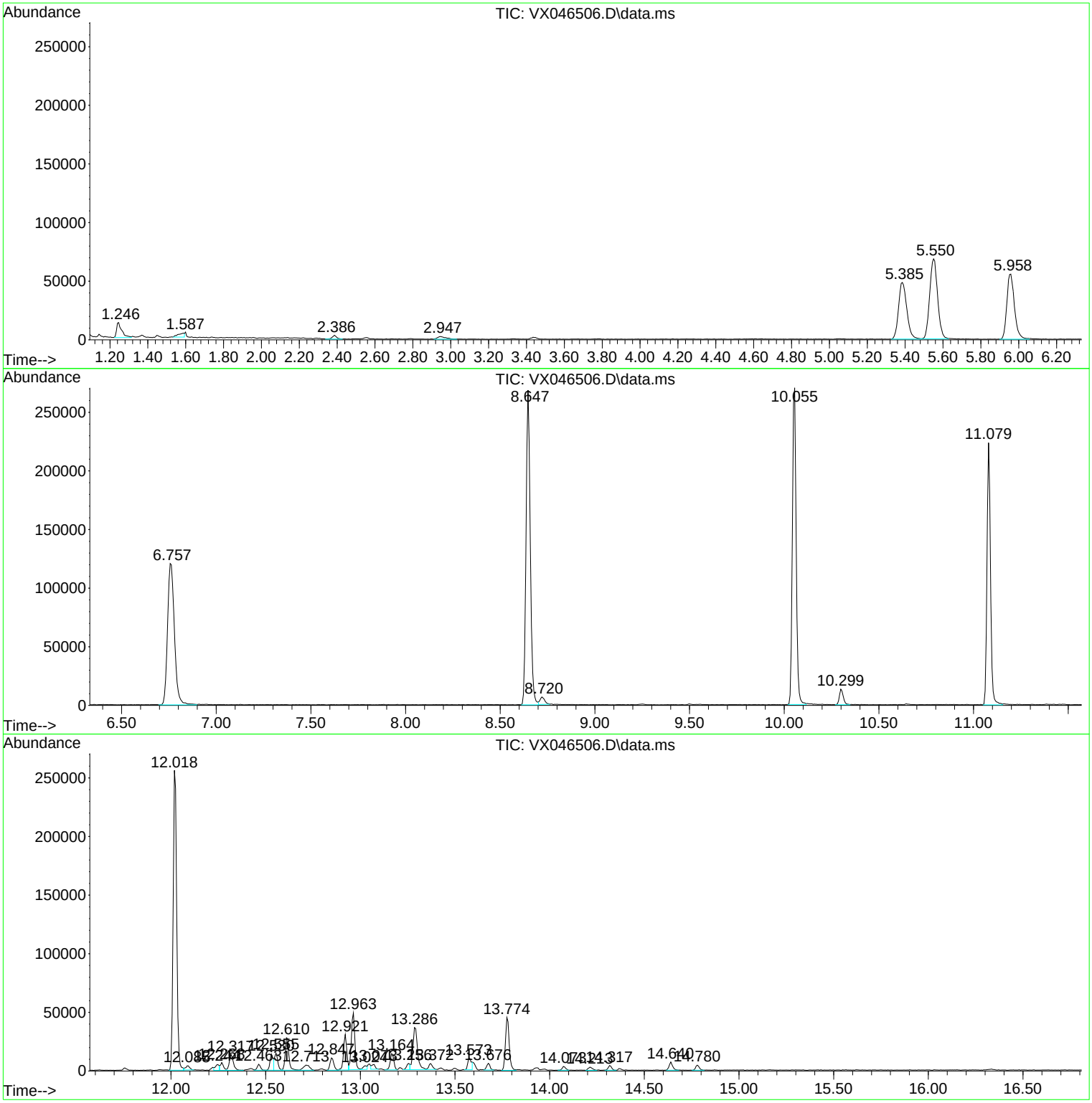
Sample Results: **VX046506.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX060425\
Data File : VX046506.D
Acq On : 04 Jun 2025 17:25
Operator : JC/MD
Sample : Q2198-05
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
B-202-GW01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX060425\
Data File : VX046506.D
Acq On : 04 Jun 2025 17:25
Operator : JC/MD
Sample : Q2198-05
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
B-202-GW01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260

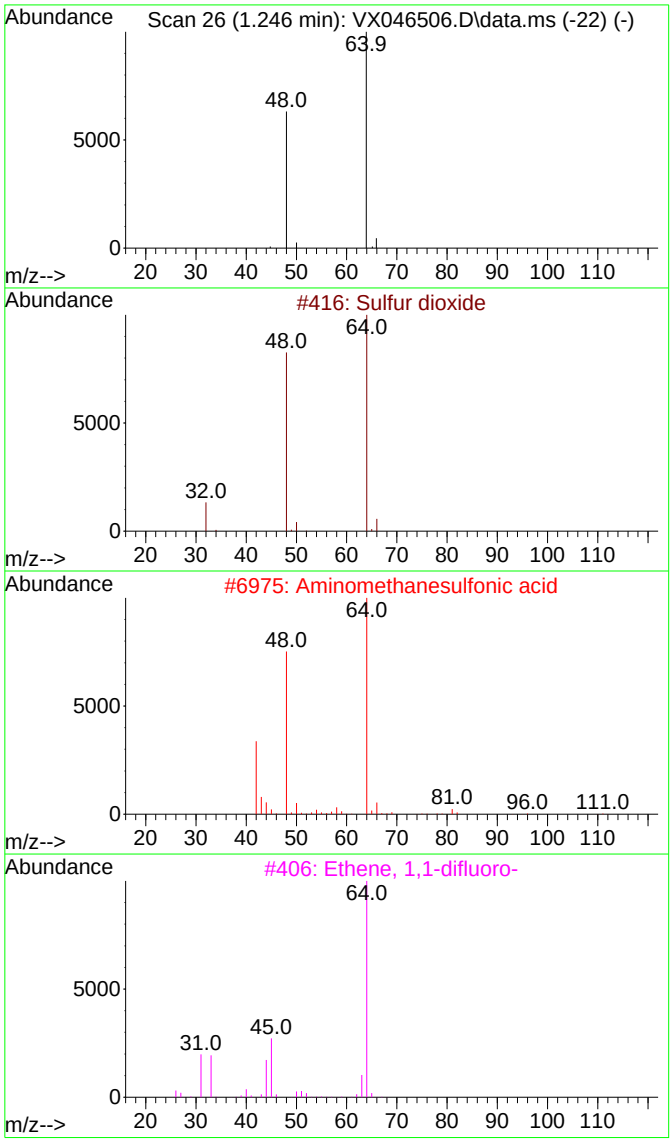
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TIC Integration Parameters: LSCINT.P

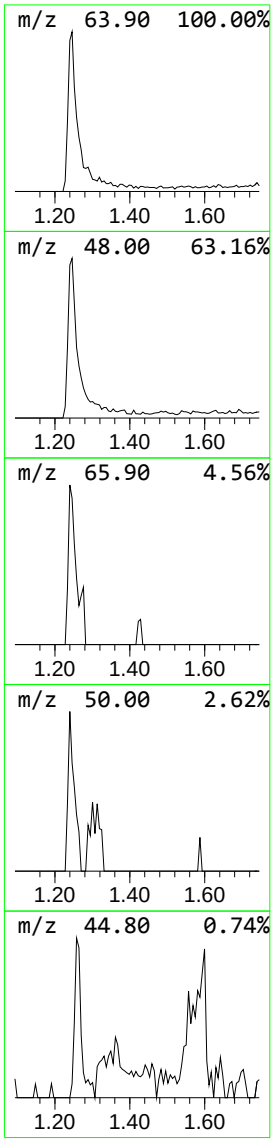
****

Peak Number 1 Sulfur dioxide Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
1.246	6.15 ug/l	24218	Pentafluorobenzene	5.550

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Sulfur dioxide	64	O2S	007446-09-5	74
2	Aminomethanesulfonic acid	111	CH5NO3S	013881-91-9	9
3	Ethene, 1,1-difluoro-	64	C2H2F2	000075-38-7	4
4	Ethene, 1,2-difluoro-	64	C2H2F2	001691-13-0	3
5	Ethyl Chloride	64	C2H5Cl	000075-00-3	3





Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX060425\
Data File : VX046506.D
Acq On : 04 Jun 2025 17:25
Operator : JC/MD
Sample : Q2198-05
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
B-202-GW01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260

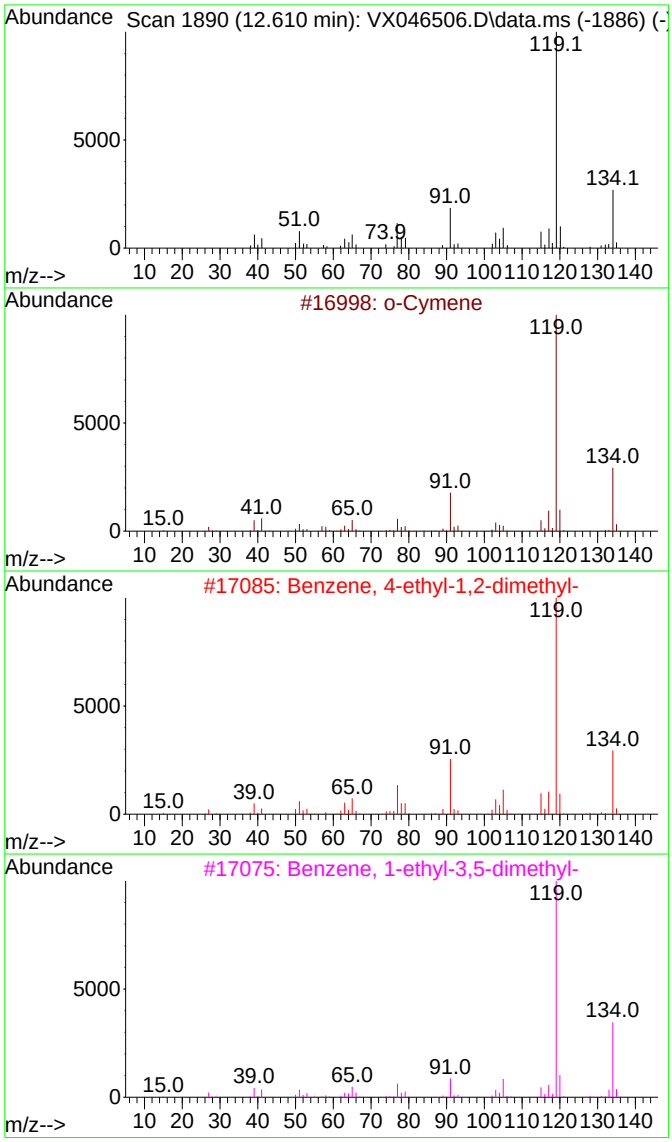
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

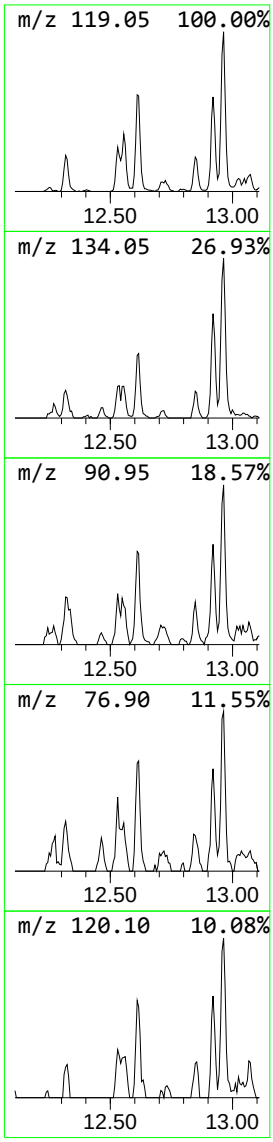
****

Peak Number 2 o-Cymene Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.610	5.57 ug/l	36951	1,4-Dichlorobenzene-d4	12.018

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	o-Cymene	134	C10H14	000527-84-4	94
2	Benzene, 4-ethyl-1,2-dimethyl-	134	C10H14	000934-80-5	93
3	Benzene, 1-ethyl-3,5-dimethyl-	134	C10H14	000934-74-7	91
4	Benzene, 1,2,3,4-tetramethyl-	134	C10H14	000488-23-3	91
5	Benzene, 1-ethyl-2,4-dimethyl-	134	C10H14	000874-41-9	91





Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX060425\
Data File : VX046506.D
Acq On : 04 Jun 2025 17:25
Operator : JC/MD
Sample : Q2198-05
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
B-202-GW01

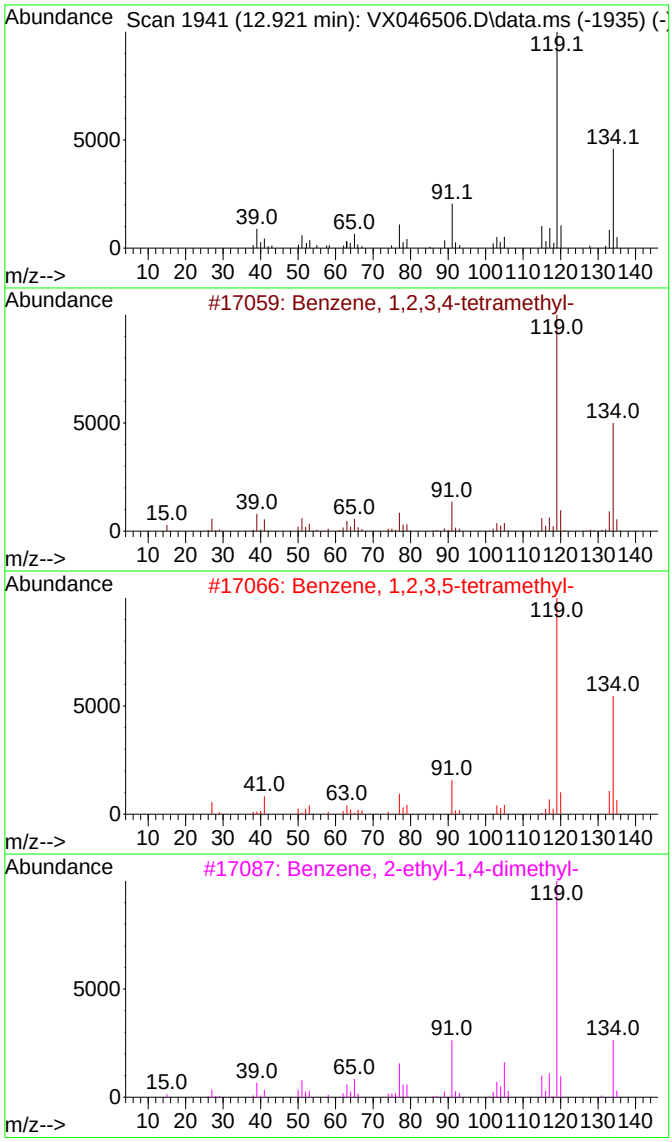
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260

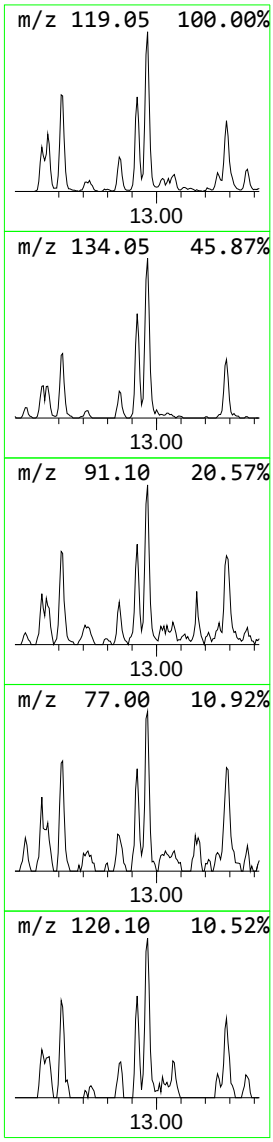
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 3 Benzene, 1,2,3,4-tetramethyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.921	5.54 ug/l	36764	1,4-Dichlorobenzene-d4	12.018

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1,2,3,4-tetramethyl-	134	C10H14	000488-23-3	94
2	Benzene, 1,2,3,5-tetramethyl-	134	C10H14	000527-53-7	94
3	Benzene, 2-ethyl-1,4-dimethyl-	134	C10H14	001758-88-9	94
4	Benzene, 1,2,4,5-tetramethyl-	134	C10H14	000095-93-2	94
5	Benzene, 1-ethyl-3,5-dimethyl-	134	C10H14	000934-74-7	93





Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX060425\
Data File : VX046506.D
Acq On : 04 Jun 2025 17:25
Operator : JC/MD
Sample : Q2198-05
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
B-202-GW01

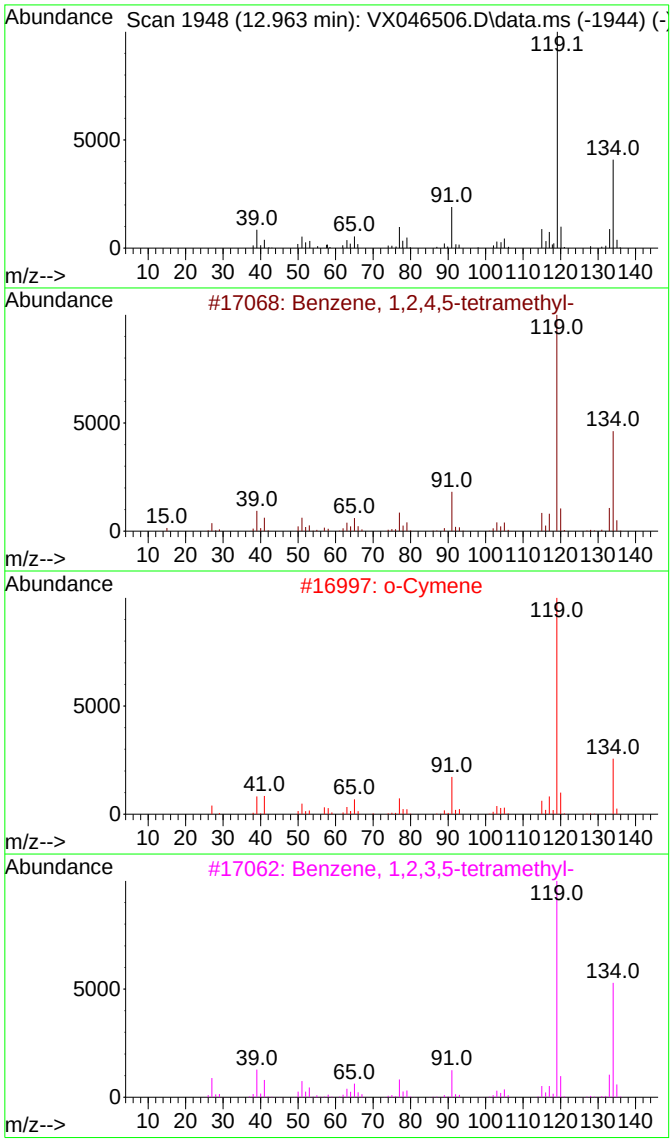
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Quant Title : SW846 8260

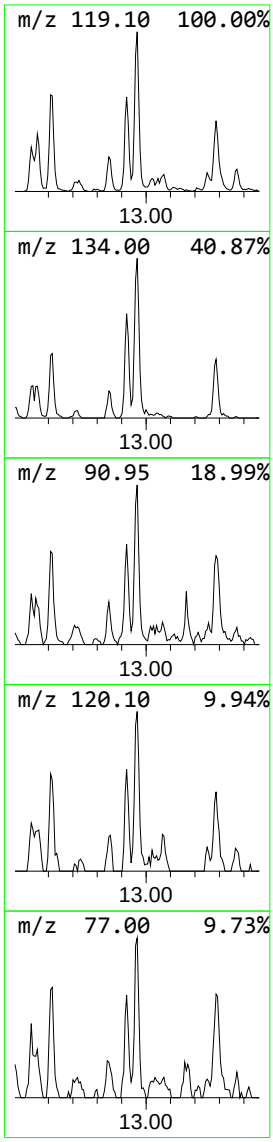
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 4 Benzene, 1,2,4,5-tetramethyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.963	9.29 ug/l	61618	1,4-Dichlorobenzene-d4	12.018

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1,2,4,5-tetramethyl-	134	C10H14	000095-93-2	95
2	o-Cymene	134	C10H14	000527-84-4	94
3	Benzene, 1,2,3,5-tetramethyl-	134	C10H14	000527-53-7	94
4	Benzene, 1,2,3,4-tetramethyl-	134	C10H14	000488-23-3	93
5	Benzene, 1-ethyl-2,4-dimethyl-	134	C10H14	000874-41-9	93





Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX060425\
Data File : VX046506.D
Acq On : 04 Jun 2025 17:25
Operator : JC/MD
Sample : Q2198-05
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
B-202-GW01

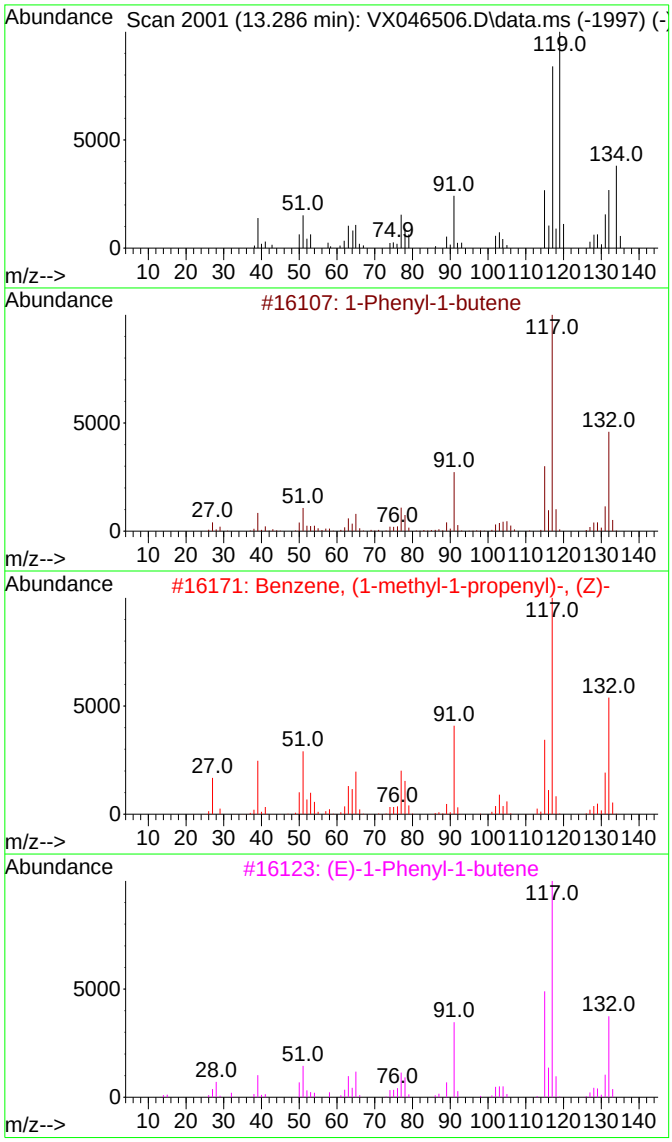
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260

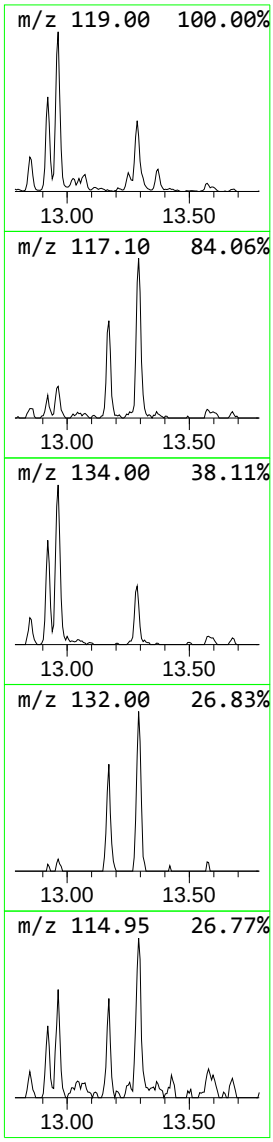
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 5 1-Phenyl-1-butene Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.286	8.94 ug/l	59341	1,4-Dichlorobenzene-d4	12.018

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Phenyl-1-butene	132	C10H12	000824-90-8	86
2	Benzene, (1-methyl-1-propenyl)-,...	132	C10H12	000767-99-7	64
3	(E)-1-Phenyl-1-butene	132	C10H12	001005-64-7	60
4	o-Cymene	134	C10H14	000527-84-4	55
5	Benzene, 1-methyl-2-(2-propenyl)-	132	C10H12	001587-04-8	50





Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX060425\
Data File : VX046506.D
Acq On : 04 Jun 2025 17:25
Operator : JC/MD
Sample : Q2198-05
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
B-202-GW01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Sulfur dioxide	1.246	6.2	ug/l	24218	1	5.550	196943	50.0
o-Cymene	12.610	5.6	ug/l	36951	4	12.018	331799	50.0
Benzene, 1,2,3,...	12.921	5.5	ug/l	36764	4	12.018	331799	50.0
Benzene, 1,2,4,...	12.963	9.3	ug/l	61618	4	12.018	331799	50.0
1-Phenyl-1-butene	13.286	8.9	ug/l	59341	4	12.018	331799	50.0

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX060425\
Data File : VX046490.D
Acq On : 04 Jun 2025 11:04
Operator : JC/MD
Sample : VX0604WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0604WBL01

Quant Time: Jun 05 01:39:03 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 2025
Response via : Initial Calibration

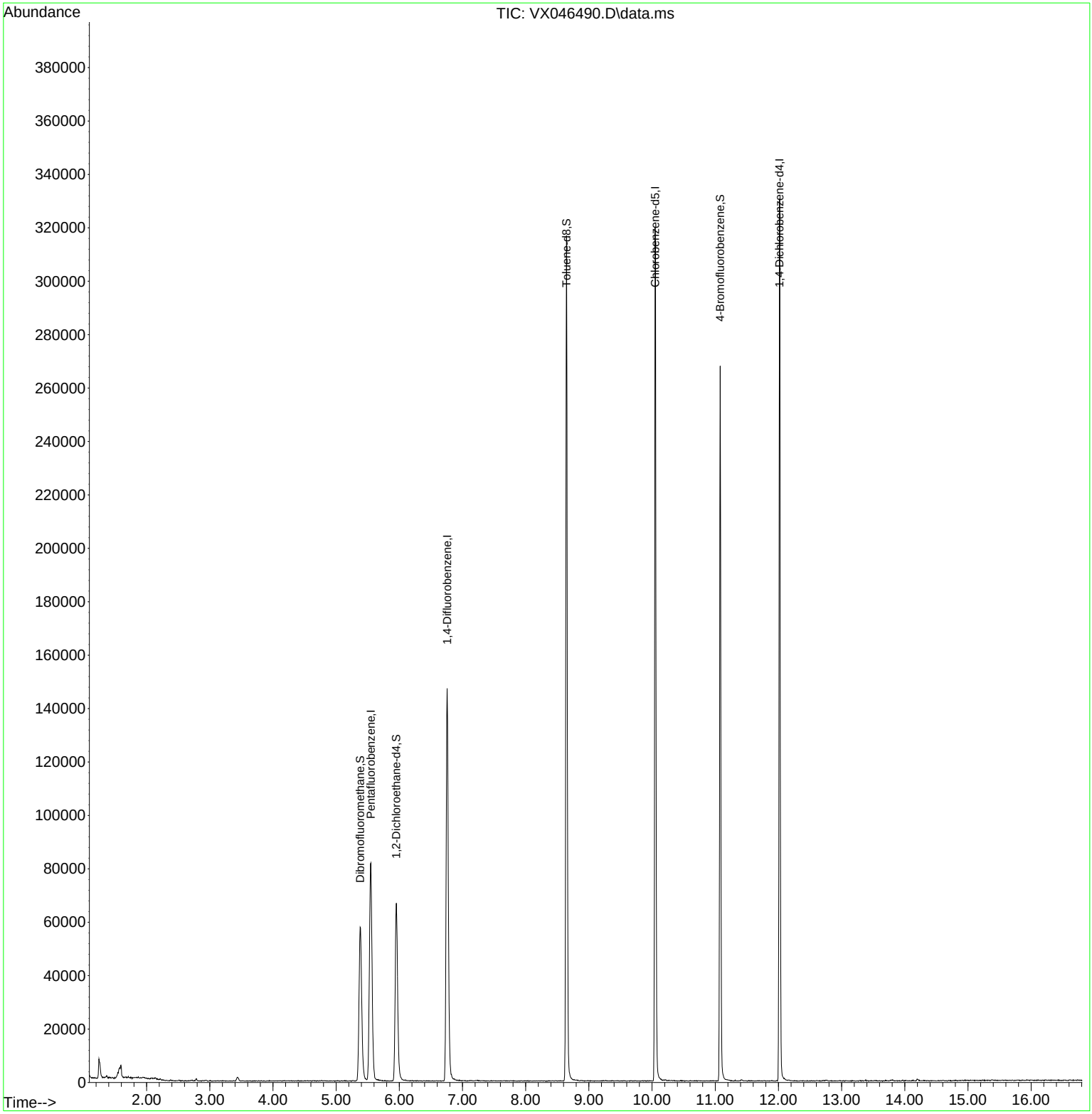
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.550	168	69580	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	139946	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	133992	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	59967	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	69212	53.355	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 106.720%			
35) Dibromofluoromethane	5.379	113	50780	50.389	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 100.780%			
50) Toluene-d8	8.647	98	175770	50.393	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 100.780%			
62) 4-Bromofluorobenzene	11.079	95	71016	53.079	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 106.160%			
Target Compounds						Qvalue

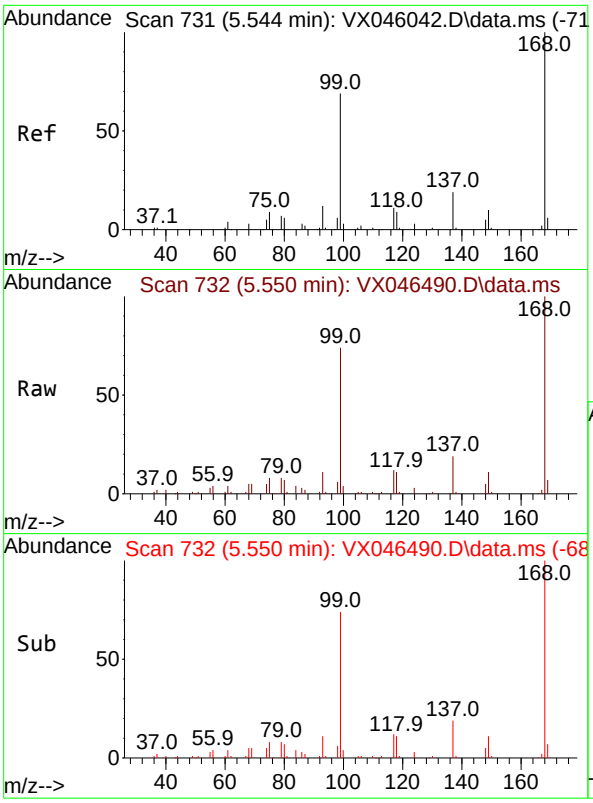
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX060425\
Data File : VX046490.D
Acq On : 04 Jun 2025 11:04
Operator : JC/MD
Sample : VX0604WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0604WBL01

Quant Time: Jun 05 01:39:03 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 2025
Response via : Initial Calibration



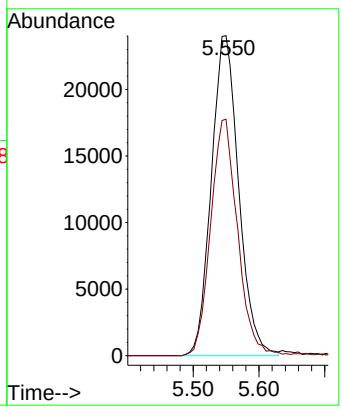


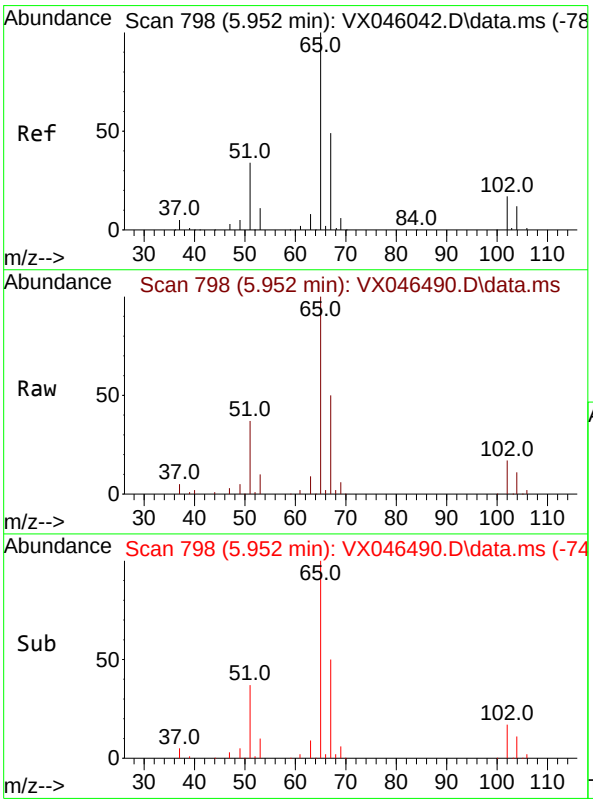
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX046490.D
Acq: 04 Jun 2025 11:04

Instrument :
MSVOA_X
ClientSampleId :
VX0604WBL01

Tgt Ion:168 Resp: 69580

Ion	Ratio	Lower	Upper
168	100		
99	73.9	54.9	82.3

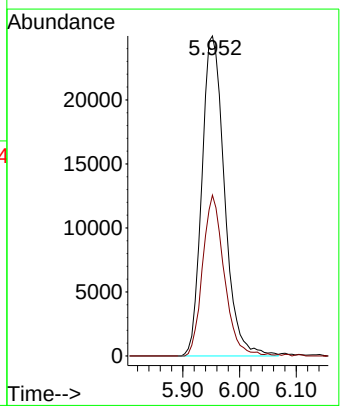


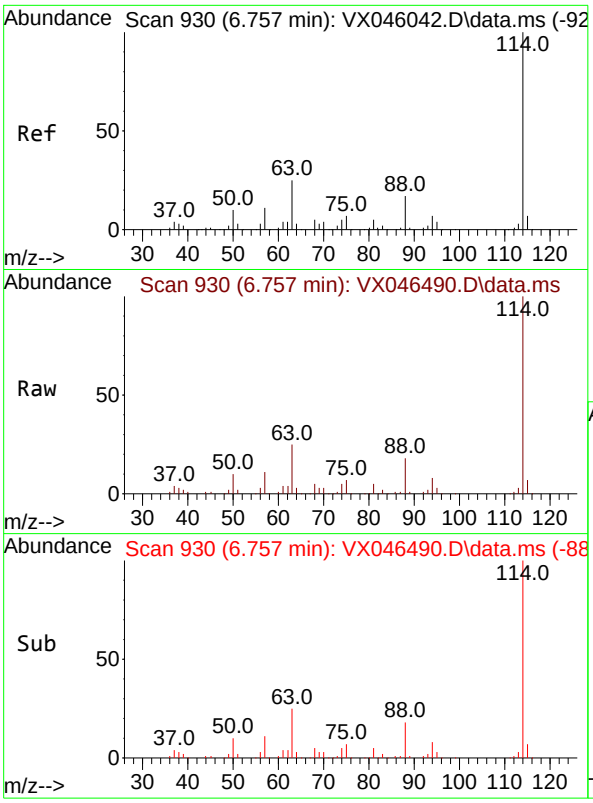


#33
1,2-Dichloroethane-d4
Concen: 53.355 ug/l
RT: 5.952 min Scan# 798
Delta R.T. -0.000 min
Lab File: VX046490.D
Acq: 04 Jun 2025 11:04

Tgt Ion: 65 Resp: 69212

Ion	Ratio	Lower	Upper
65	100		
67	48.1	0.0	99.0



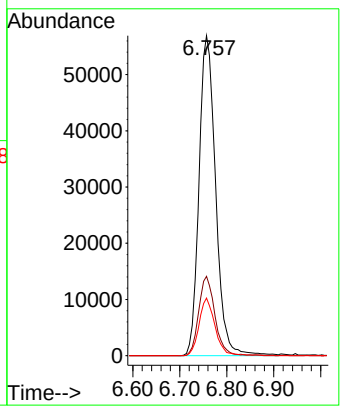


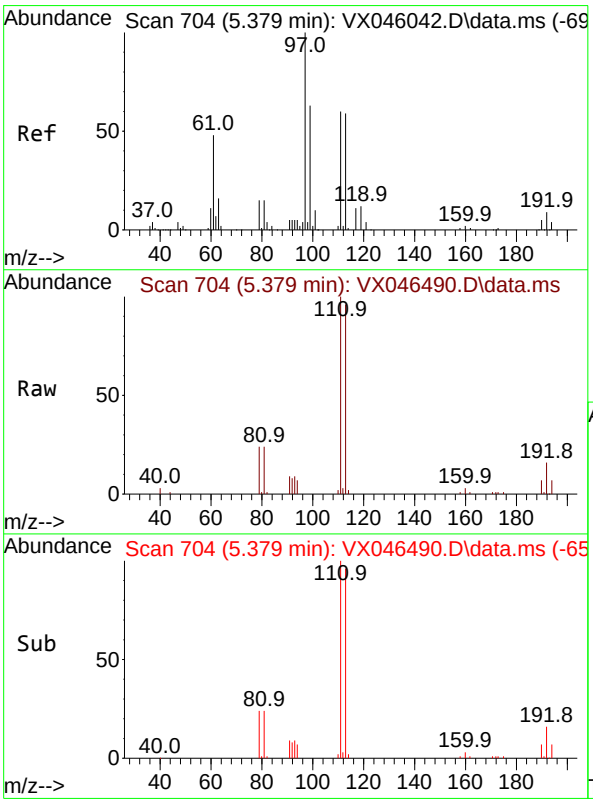
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 9
Delta R.T. -0.000 min
Lab File: VX046490.D
Acq: 04 Jun 2025 11:04

Instrument :
MSVOA_X
ClientSampleId :
VX0604WBL01

Tgt Ion:114 Resp: 139946

Ion	Ratio	Lower	Upper
114	100		
63	24.8	0.0	49.2
88	18.0	0.0	33.6

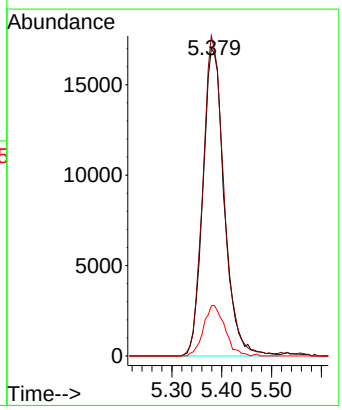


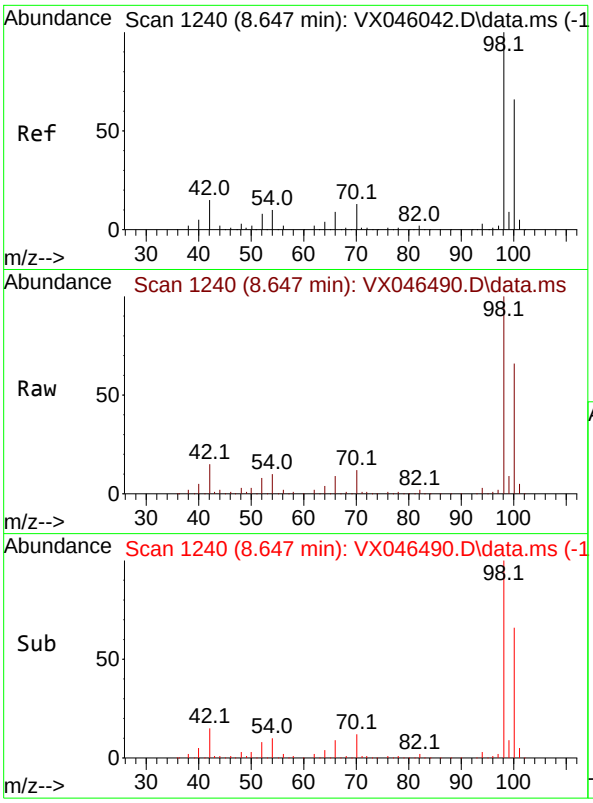


#35
Dibromofluoromethane
Concen: 50.389 ug/l
RT: 5.379 min Scan# 704
Delta R.T. -0.000 min
Lab File: VX046490.D
Acq: 04 Jun 2025 11:04

Tgt Ion:113 Resp: 50780

Ion	Ratio	Lower	Upper
113	100		
111	102.0	83.1	124.7
192	16.4	13.3	19.9



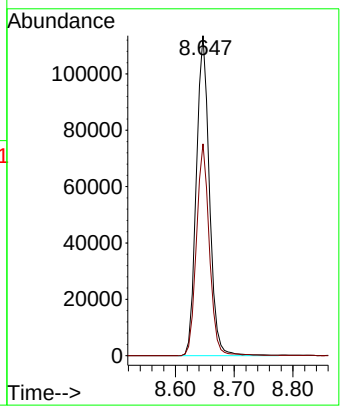


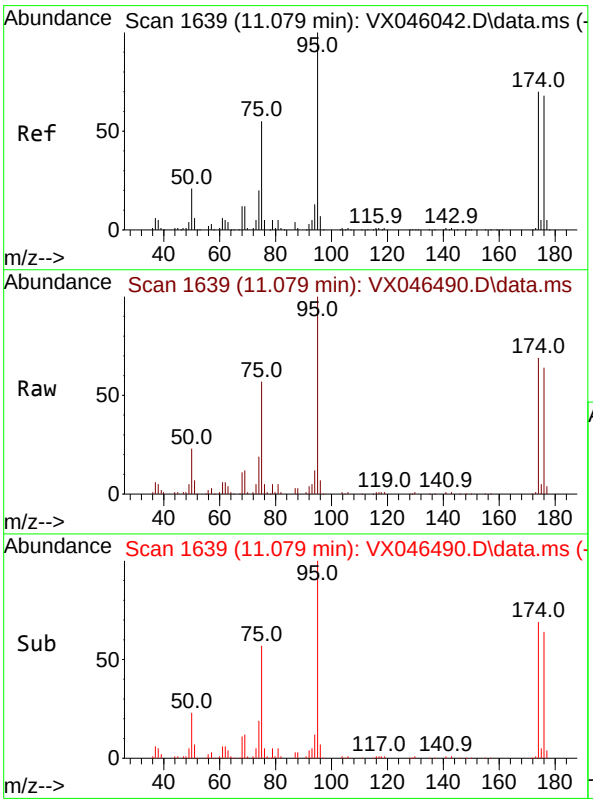
#50
Toluene-d8
Concen: 50.393 ug/l
RT: 8.647 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046490.D
Acq: 04 Jun 2025 11:04

Instrument :
MSVOA_X
ClientSampleId :
VX0604WBL01

Tgt Ion: 98 Resp: 175770

Ion	Ratio	Lower	Upper
98	100		
100	65.3	53.5	80.3

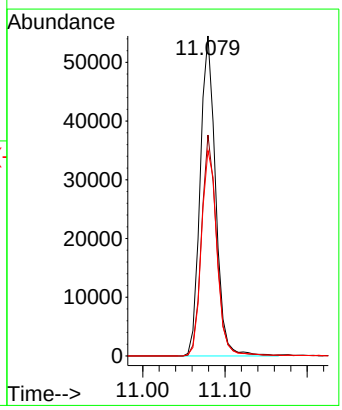


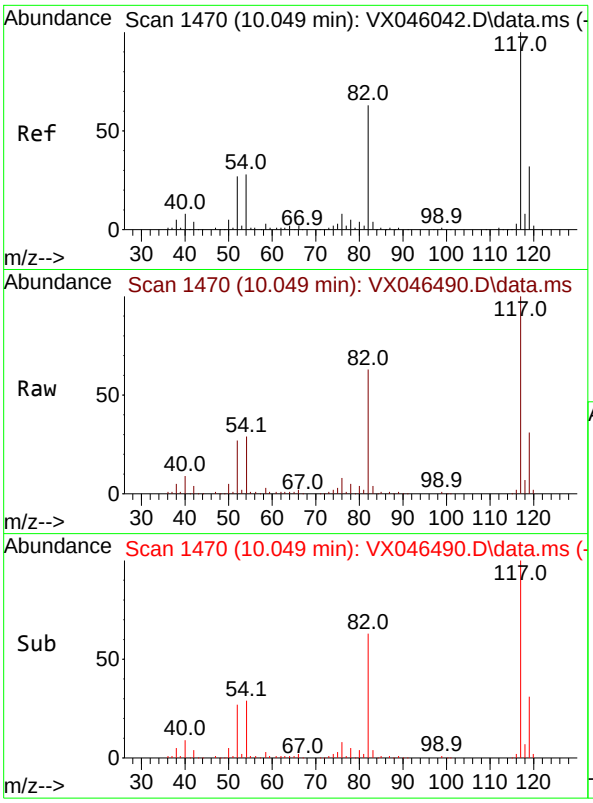


#62
4-Bromofluorobenzene
Concen: 53.079 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX046490.D
Acq: 04 Jun 2025 11:04

Tgt Ion: 95 Resp: 71016

Ion	Ratio	Lower	Upper
95	100		
174	67.4	0.0	135.8
176	65.5	0.0	131.4



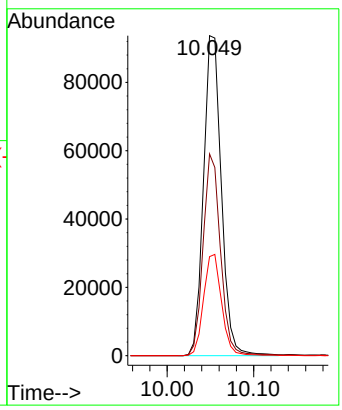


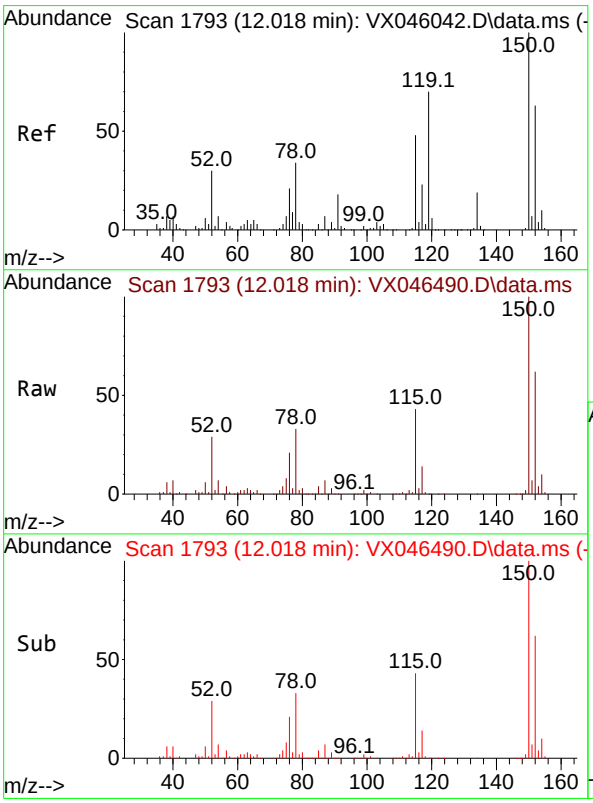
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX046490.D
Acq: 04 Jun 2025 11:04

Instrument :
MSVOA_X
ClientSampleId :
VX0604WBL01

Tgt Ion:117 Resp: 133992

Ion	Ratio	Lower	Upper
117	100		
82	63.0	50.6	76.0
119	31.0	25.8	38.6

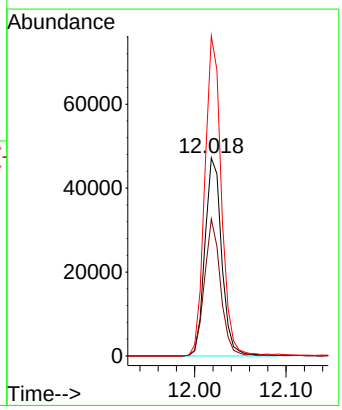




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. -0.000 min
Lab File: VX046490.D
Acq: 04 Jun 2025 11:04

Tgt Ion:152 Resp: 59967

Ion	Ratio	Lower	Upper
152	100		
115	66.8	46.9	140.7
150	160.7	0.0	351.0



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX060425\
Data File : VX046490.D
Acq On : 04 Jun 2025 11:04
Operator : JC/MD
Sample : VX0604WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0604WBL01

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Title : SW846 8260

Signal : TIC: VX046490.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.246	22	26	35	rBV2	7104	13176	2.66%	0.494%
2	1.575	69	80	81	rBV5	3966	9410	1.90%	0.353%
3	1.593	81	83	89	rVB6	4708	5720	1.16%	0.214%
4	5.379	692	704	721	rBV	57648	170884	34.55%	6.408%
5	5.550	721	732	746	rVV	81252	231356	46.78%	8.675%
6	5.952	788	798	814	rBV	66566	178179	36.03%	6.681%
7	6.757	921	930	946	rBV	146982	354352	71.64%	13.288%
8	8.647	1232	1240	1258	rBV	316565	494595	100.00%	18.547%
9	10.049	1465	1470	1489	rBV	319655	453128	91.62%	16.992%
10	11.079	1634	1639	1657	rBV	267666	346458	70.05%	12.992%
11	12.018	1788	1793	1804	rBV	330331	409522	82.80%	15.356%

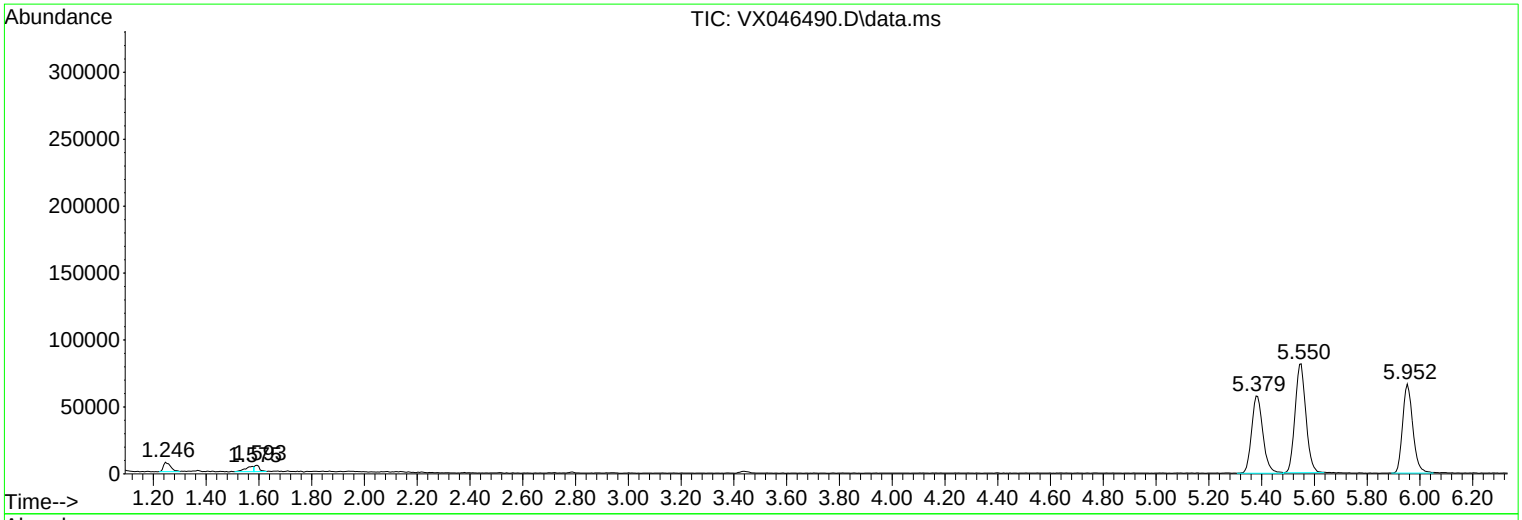
Sum of corrected areas: 2666780

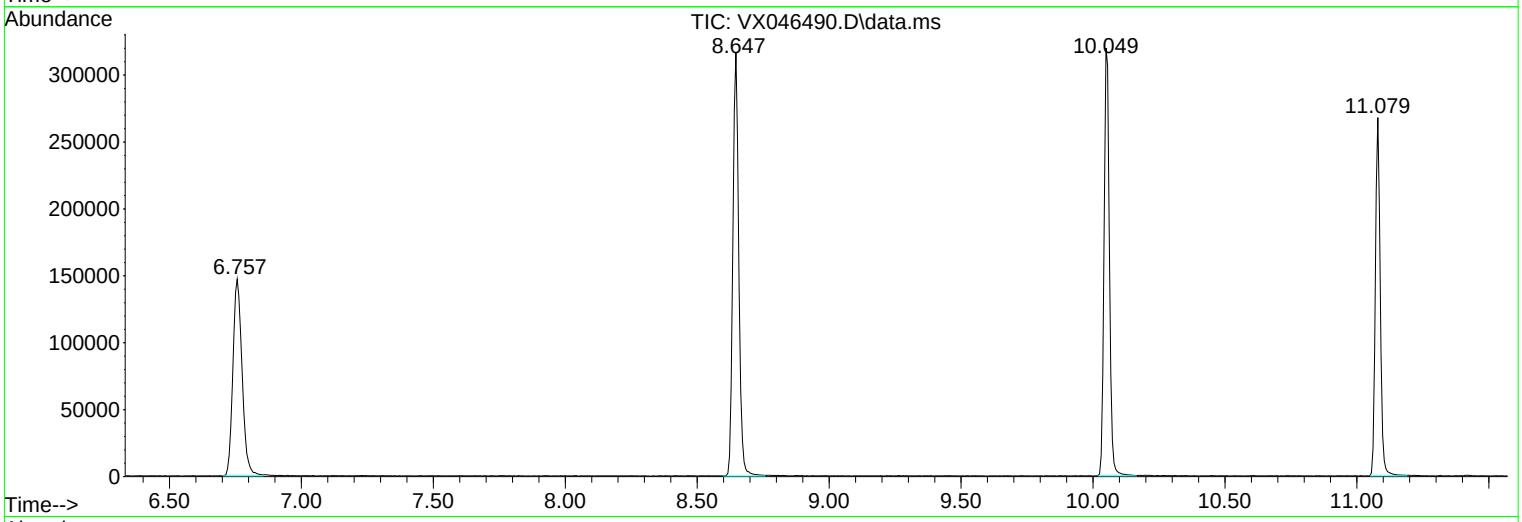
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX060425\
Data File : VX046490.D
Acq On : 04 Jun 2025 11:04
Operator : JC/MD
Sample : VX0604WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

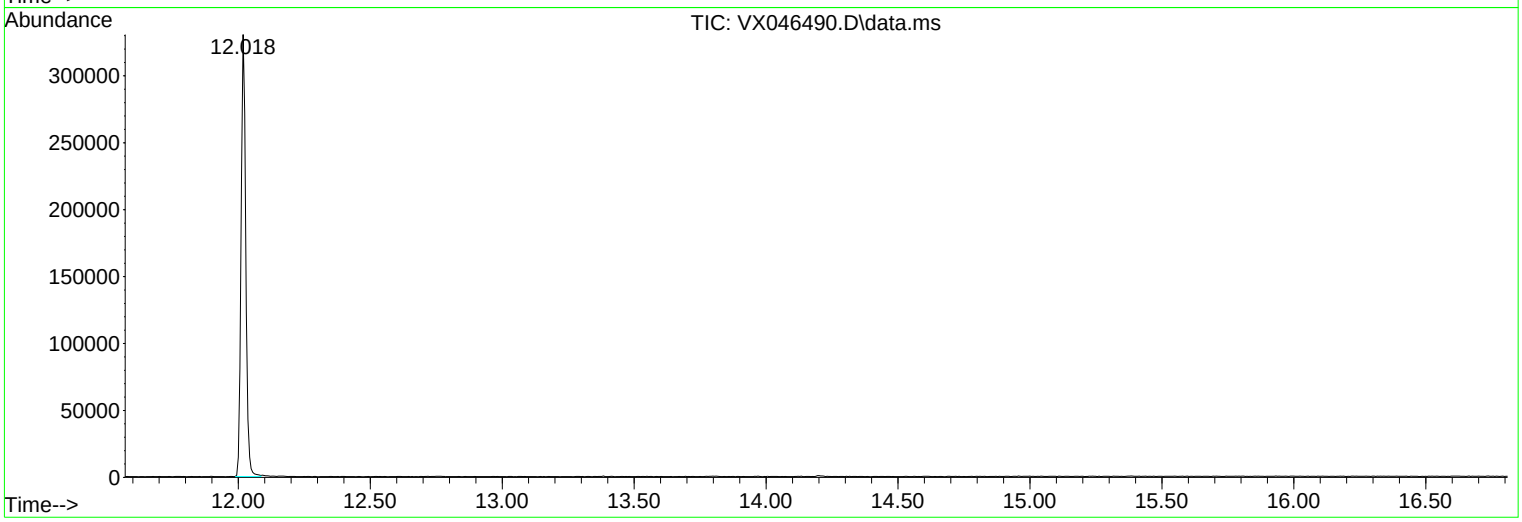
Instrument :
MSVOA_X
ClientSampleId :
VX0604WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P







Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX060425\
Data File : VX046490.D
Acq On : 04 Jun 2025 11:04
Operator : JC/MD
Sample : VX0604WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0604WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX060425\
Data File : VX046490.D
Acq On : 04 Jun 2025 11:04
Operator : JC/MD
Sample : VX0604WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0604WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY060425\
Data File : VY022539.D
Acq On : 04 Jun 2025 10:24
Operator : SY/MD
Sample : VY0604SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0604SBL01

Quant Time: Jun 05 04:09:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y060225S.M
Quant Title : SW846 8260
QLast Update : Tue Jun 03 03:22:04 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	271205	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	498185	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	390593	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	137326	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	159828	52.692	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 105.380%			
35) Dibromofluoromethane	7.634	113	150711	50.684	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 101.360%			
50) Toluene-d8	10.109	98	592665	49.327	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 98.660%			
62) 4-Bromofluorobenzene	12.408	95	149151	41.664	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 83.320%			

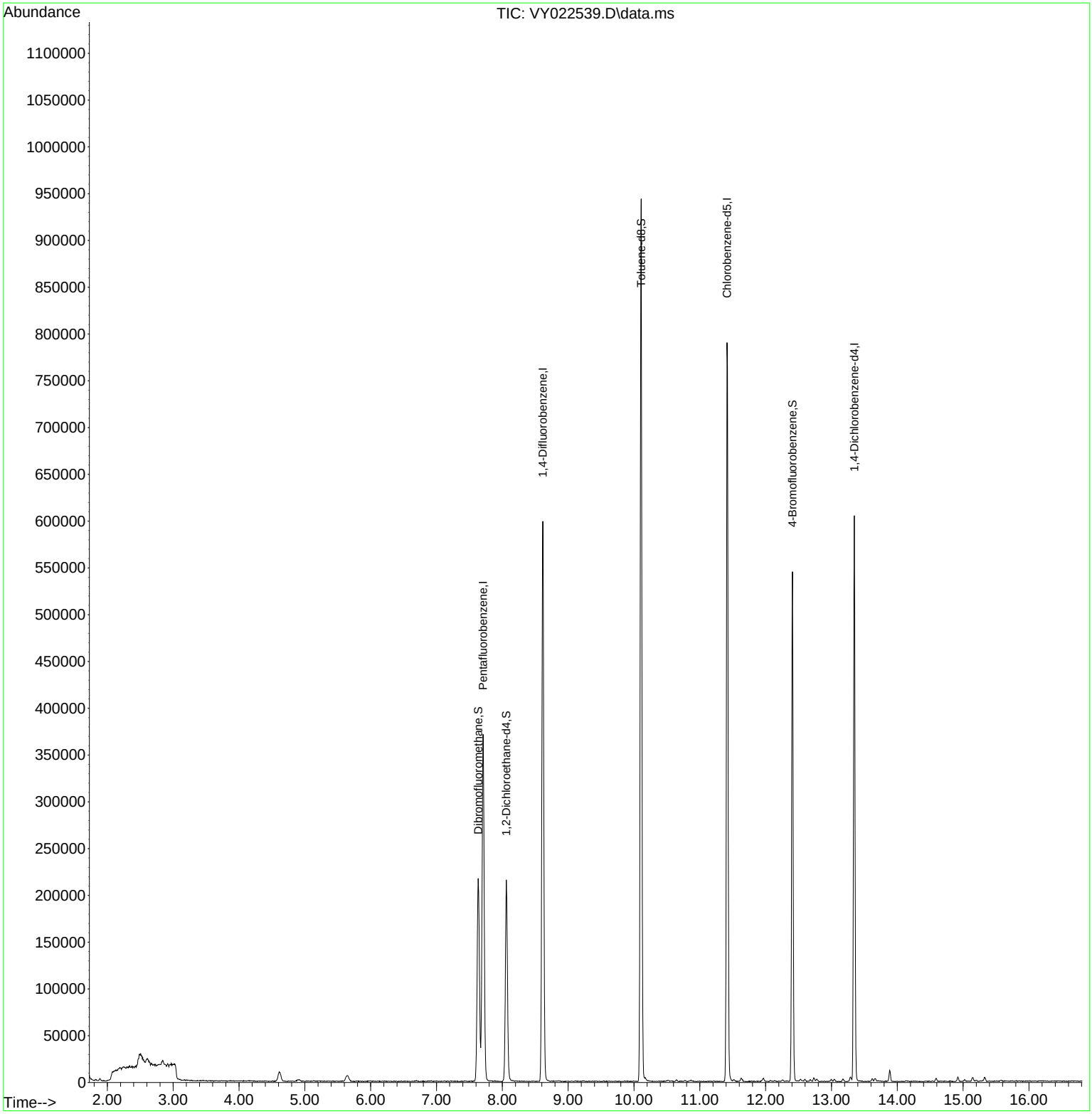
Target Compounds Qvalue

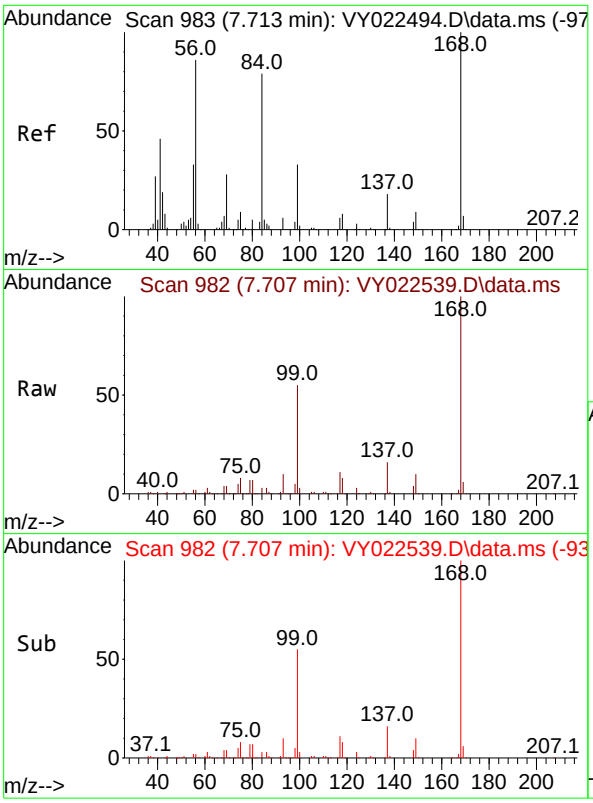
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY060425\
Data File : VY022539.D
Acq On : 04 Jun 2025 10:24
Operator : SY/MD
Sample : VY0604SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0604SBL01

Quant Time: Jun 05 04:09:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y060225S.M
Quant Title : SW846 8260
QLast Update : Tue Jun 03 03:22:04 2025
Response via : Initial Calibration



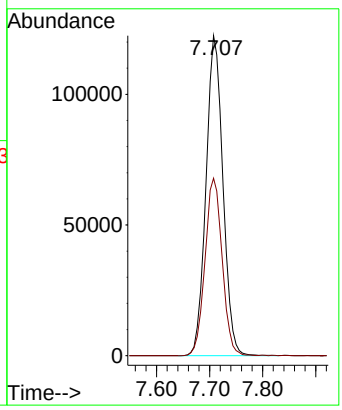


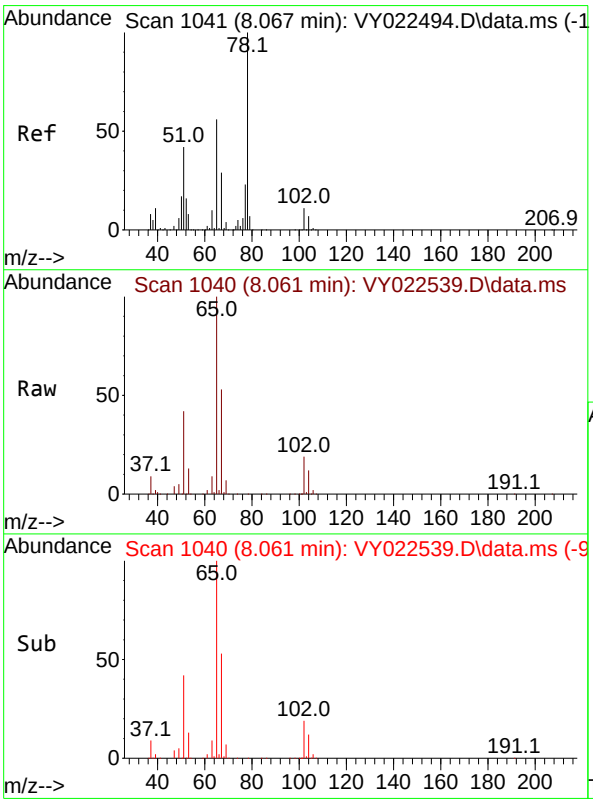
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. -0.006 min
Lab File: VY022539.D
Acq: 04 Jun 2025 10:24

Instrument :
MSVOA_Y
ClientSampleId :
VY0604SBL01

Tgt Ion:168 Resp: 271205

Ion	Ratio	Lower	Upper
168	100		
99	55.5	44.3	66.5

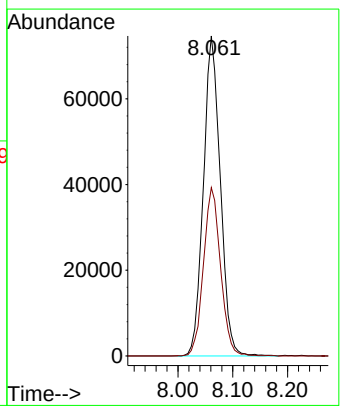


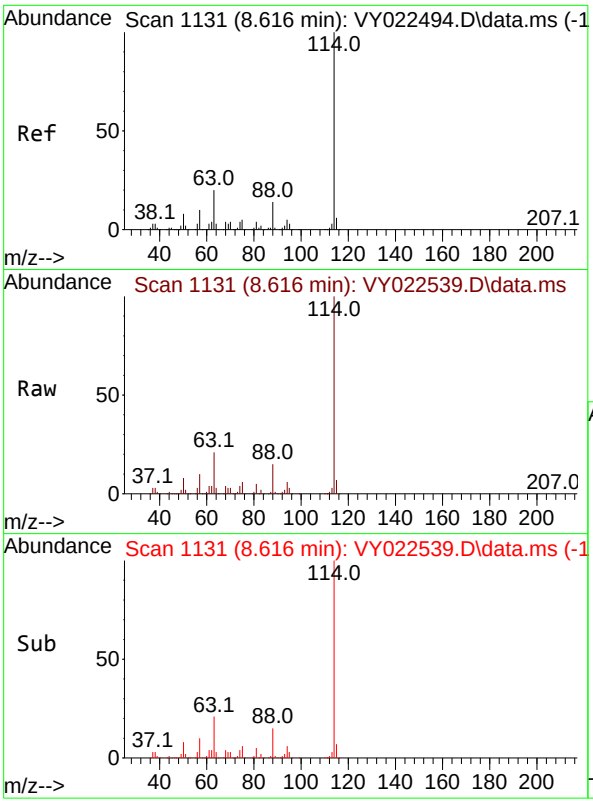


#33
1,2-Dichloroethane-d4
Concen: 52.692 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. -0.006 min
Lab File: VY022539.D
Acq: 04 Jun 2025 10:24

Tgt Ion: 65 Resp: 159828

Ion	Ratio	Lower	Upper
65	100		
67	53.1	0.0	103.4



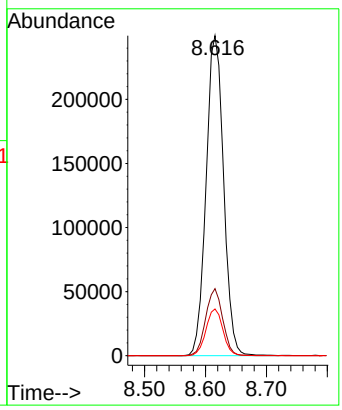


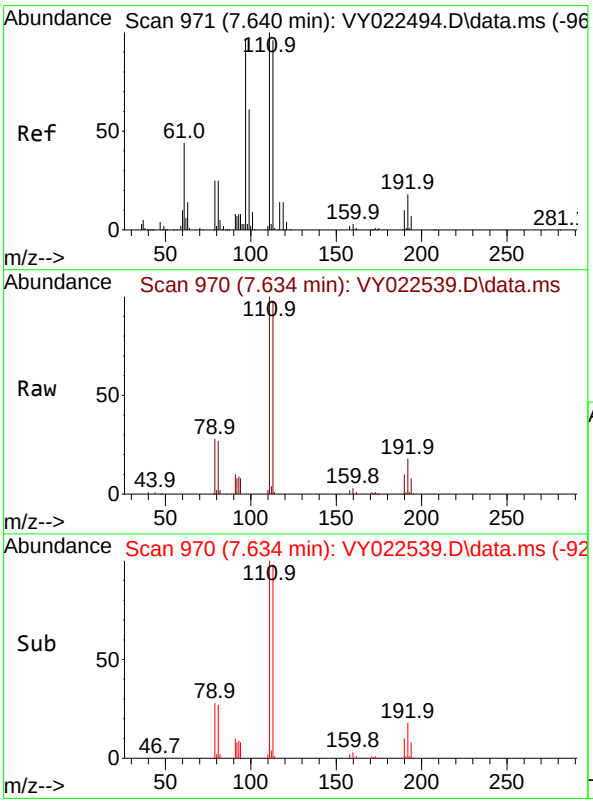
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 11
Delta R.T. -0.000 min
Lab File: VY022539.D
Acq: 04 Jun 2025 10:24

Instrument :
MSVOA_Y
ClientSampleId :
VY0604SBL01

Tgt Ion:114 Resp: 498185

Ion	Ratio	Lower	Upper
114	100		
63	20.9	0.0	40.8
88	14.6	0.0	27.8

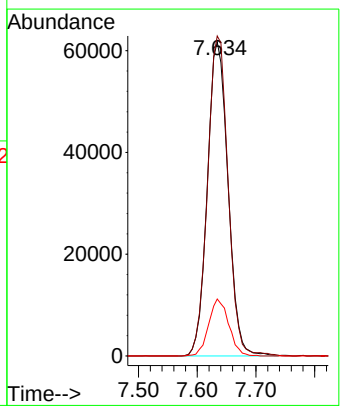


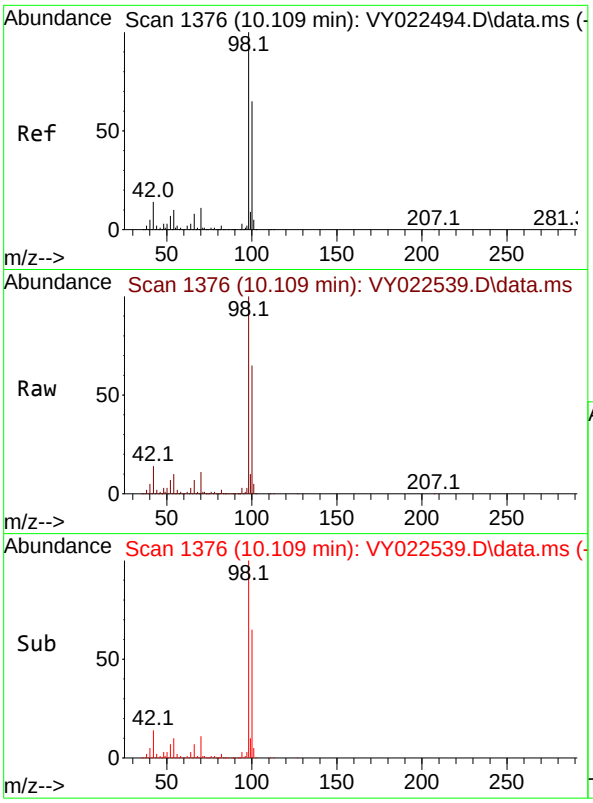


#35
Dibromofluoromethane
Concen: 50.684 ug/l
RT: 7.634 min Scan# 970
Delta R.T. -0.006 min
Lab File: VY022539.D
Acq: 04 Jun 2025 10:24

Tgt Ion:113 Resp: 150711

Ion	Ratio	Lower	Upper
113	100		
111	101.5	81.1	121.7
192	17.7	14.2	21.2



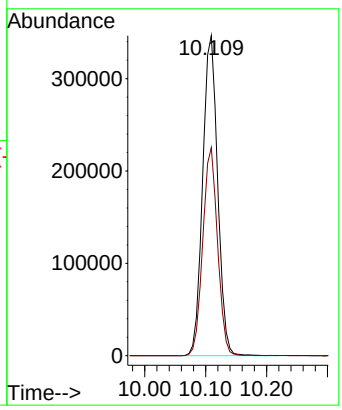


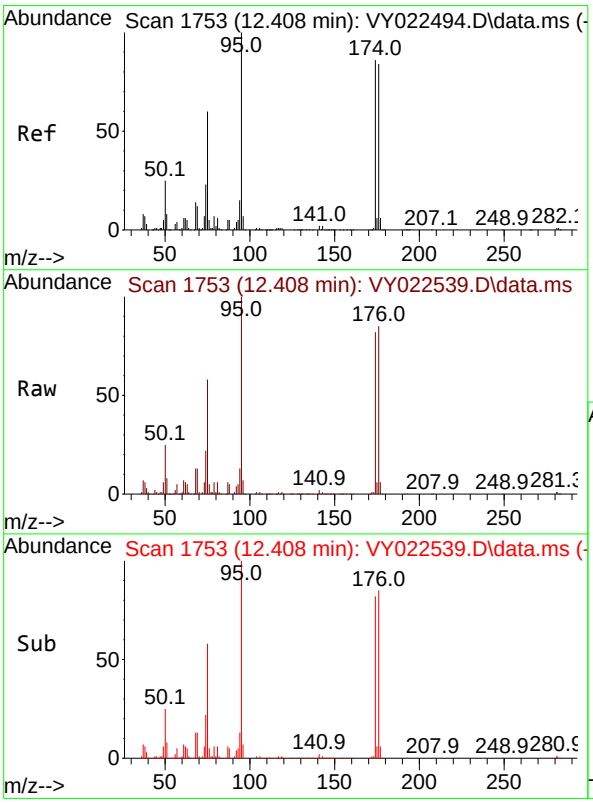
#50
Toluene-d8
Concen: 49.327 ug/l
RT: 10.109 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022539.D
Acq: 04 Jun 2025 10:24

Instrument :
MSVOA_Y
ClientSampleId :
VY0604SBL01

Tgt Ion: 98 Resp: 592665

Ion	Ratio	Lower	Upper
98	100		
100	64.0	51.4	77.0

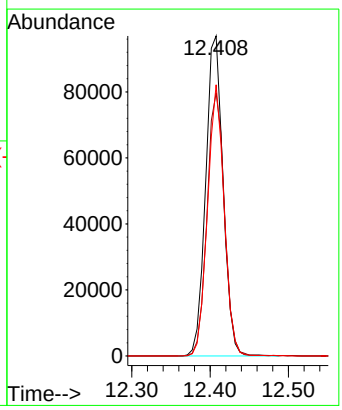


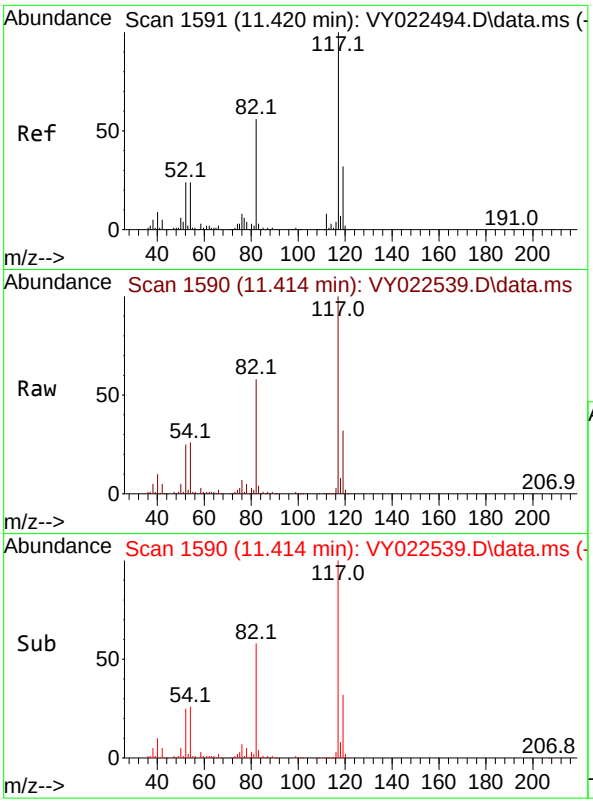


#62
4-Bromofluorobenzene
Concen: 41.664 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. -0.000 min
Lab File: VY022539.D
Acq: 04 Jun 2025 10:24

Tgt Ion: 95 Resp: 149151

Ion	Ratio	Lower	Upper
95	100		
174	82.8	0.0	170.0
176	80.6	0.0	166.2



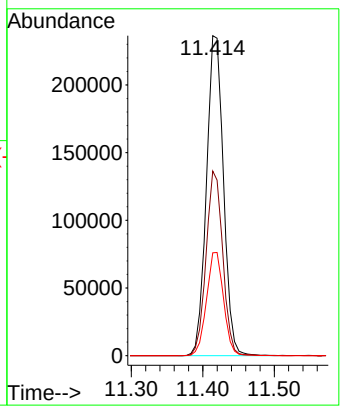


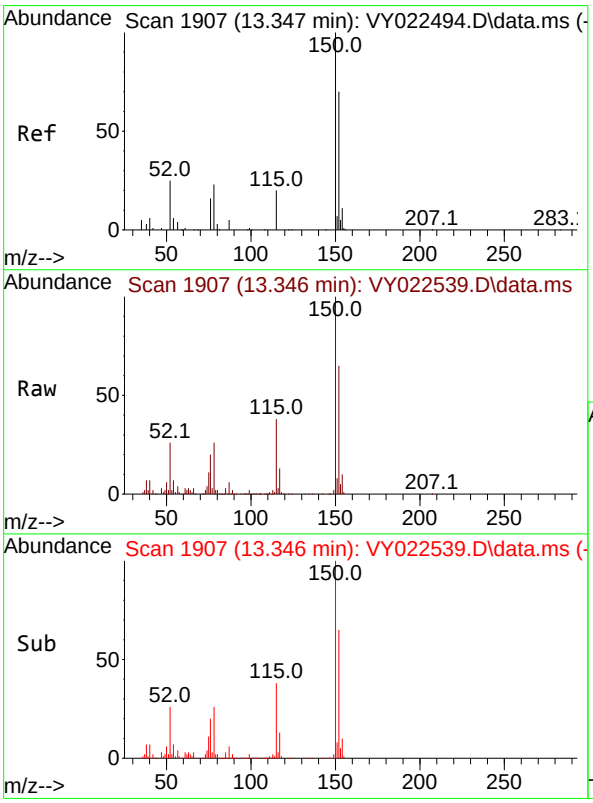
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY022539.D
Acq: 04 Jun 2025 10:24

Instrument :
MSVOA_Y
ClientSampleId :
VY0604SBL01

Tgt Ion:117 Resp: 390593

Ion	Ratio	Lower	Upper
117	100		
82	57.7	44.6	66.8
119	32.2	25.4	38.0

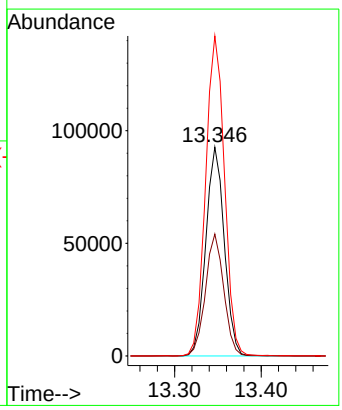




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VY022539.D
Acq: 04 Jun 2025 10:24

Tgt Ion:152 Resp: 137326

Ion	Ratio	Lower	Upper
152	100		
115	58.1	28.9	86.7
150	156.5	0.0	349.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY060425\
Data File : VY022539.D
Acq On : 04 Jun 2025 10:24
Operator : SY/MD
Sample : VY0604SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0604SBL01

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y060225S.M
Title : SW846 8260

Signal : TIC: VY022539.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.080	50	59	60	rBV3	8900	16705	1.03%	0.215%
2	4.610	464	474	486	rBV3	10253	32359	2.00%	0.416%
3	5.647	633	644	652	rBV6	6208	21172	1.31%	0.272%
4	7.634	959	970	976	rBV	216859	519690	32.09%	6.673%
5	7.707	976	982	995	rVB	370343	834319	51.51%	10.713%
6	8.061	1030	1040	1052	rBV	215799	474896	29.32%	6.098%
7	8.616	1122	1131	1150	rVB	598809	1189420	73.44%	15.273%
8	10.109	1367	1376	1385	rBV	943399	1619604	100.00%	20.797%
9	11.414	1583	1590	1603	rBV	789380	1299067	80.21%	16.681%
10	12.408	1745	1753	1764	rBV	544757	844373	52.13%	10.842%
11	13.346	1901	1907	1919	rVB	604325	917874	56.67%	11.786%
12	13.883	1990	1995	2001	rVB2	11753	18325	1.13%	0.235%

Sum of corrected areas: 7787804

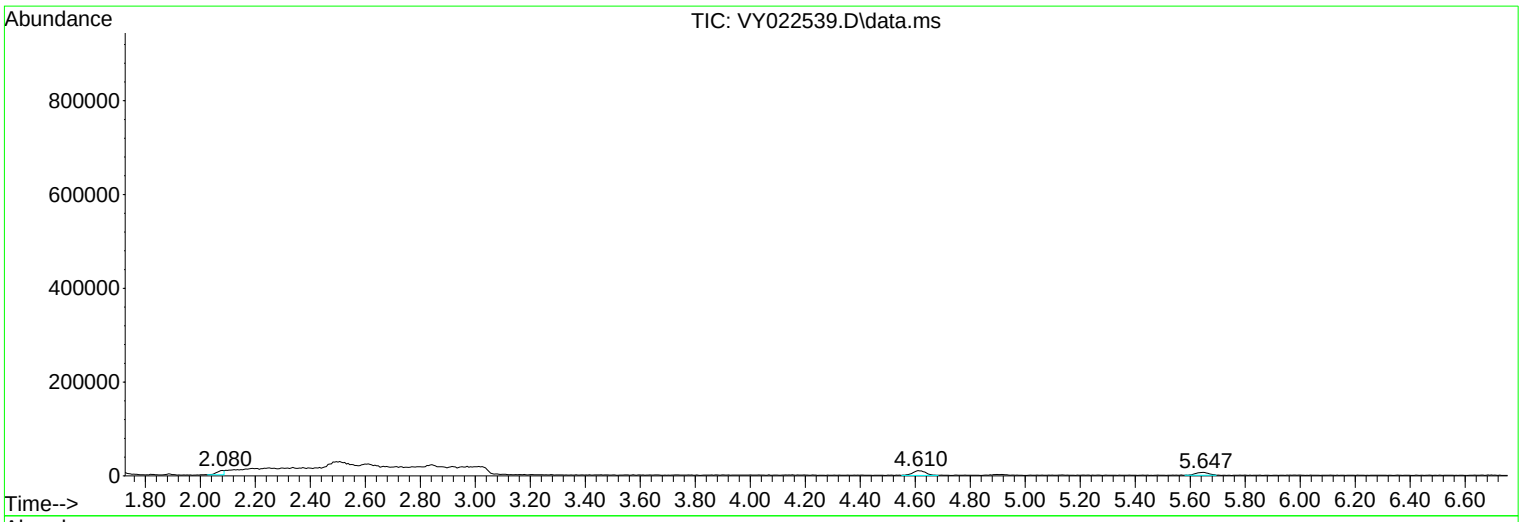
Sample Results: **VY022539.D**

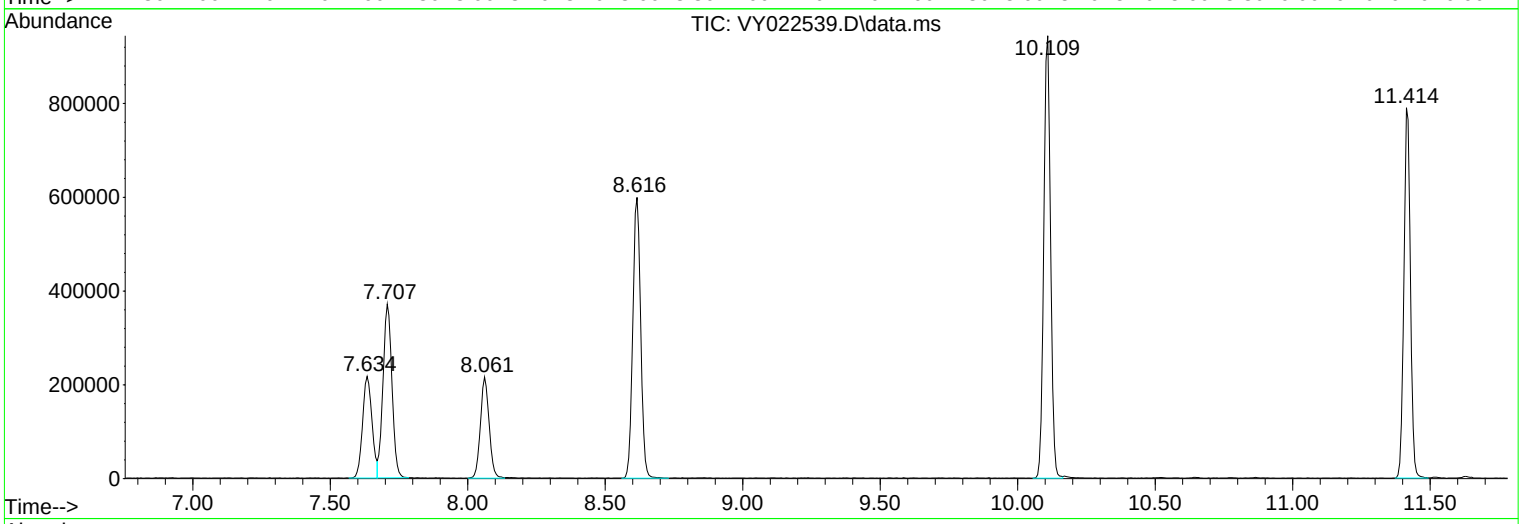
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY060425\
Data File : VY022539.D
Acq On : 04 Jun 2025 10:24
Operator : SY/MD
Sample : VY0604SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

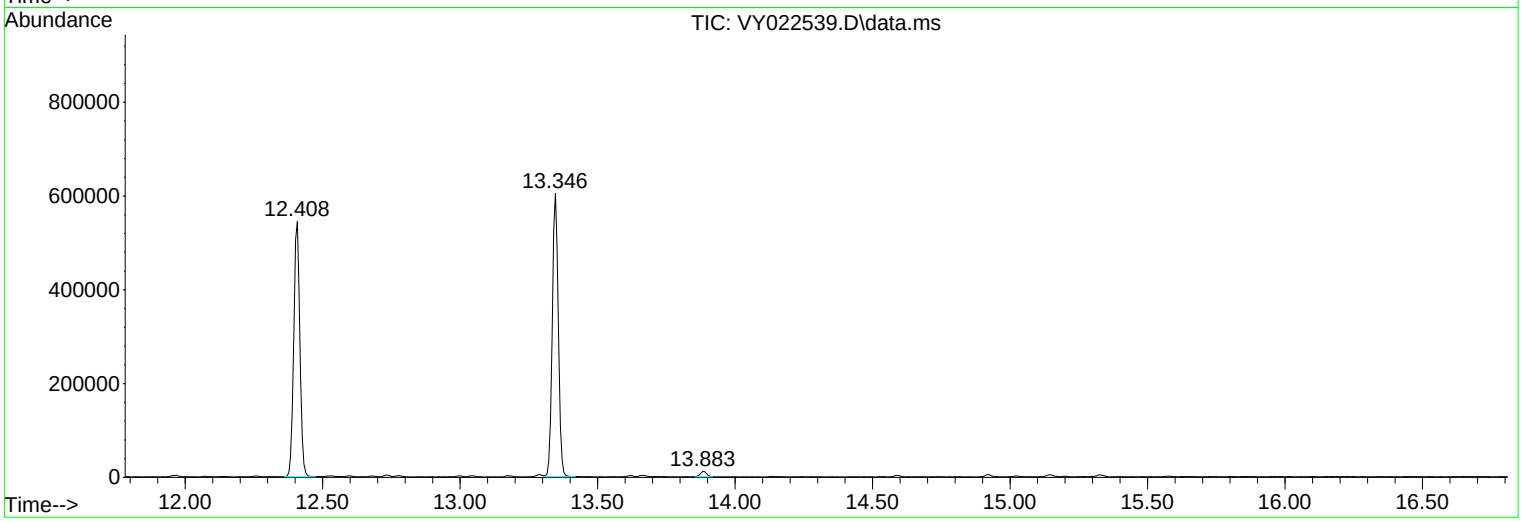
Instrument :
MSVOA_Y
ClientSampleId :
VY0604SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y060225S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P







Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY060425\
Data File : VY022539.D
Acq On : 04 Jun 2025 10:24
Operator : SY/MD
Sample : VY0604SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0604SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y060225S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY060425\
Data File : VY022539.D
Acq On : 04 Jun 2025 10:24
Operator : SY/MD
Sample : VY0604SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0604SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y060225S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	Internal Standard RT	Internal Standard Resp	Internal Standard Conc

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX060425\
Data File : VX046491.D
Acq On : 04 Jun 2025 11:27
Operator : JC/MD
Sample : VX0604WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 05 01:39:52 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX0604WBS01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 06/05/2025
Supervised By :Semsettin Yesilyurt 06/05/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	92897	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	164481	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	139452	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	63937	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	86820	50.130	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 100.260%			
35) Dibromofluoromethane	5.379	113	60723	51.267	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 102.540%			
50) Toluene-d8	8.647	98	193713	47.253	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 94.500%			
62) 4-Bromofluorobenzene	11.079	95	77214	49.102	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 98.200%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.167	85	22743	15.995	ug/l	99
3) Chloromethane	1.307	50	20855	15.125	ug/l	98
4) Vinyl Chloride	1.374	62	19920	15.523	ug/l	94
5) Bromomethane	1.599	94	9608	16.142	ug/l	100
6) Chloroethane	1.673	64	11730	17.122	ug/l	96
7) Trichlorofluoromethane	1.880	101	34089	17.974	ug/l	95
8) Diethyl Ether	2.130	74	11717	18.148	ug/l	99
9) 1,1,2-Trichlorotrifluo...	2.319	101	21471	18.294	ug/l	99
10) Methyl Iodide	2.447	142	20760	14.948	ug/l	99
11) Tert butyl alcohol	2.971	59	28971	119.170	ug/l	99
12) 1,1-Dichloroethene	2.313	96	18932	17.187	ug/l	97
13) Acrolein	2.233	56	29271	105.725	ug/l	98
14) Allyl chloride	2.660	41	40362	19.172	ug/l	96
15) Acrylonitrile	3.063	53	74090	106.582	ug/l	98
16) Acetone	2.380	43	73753	106.210	ug/l	99
17) Carbon Disulfide	2.508	76	33026	12.646	ug/l #	95
18) Methyl Acetate	2.703	43	44506	27.620	ug/l	99
19) Methyl tert-butyl Ether	3.111	73	79431	20.568	ug/l	99
20) Methylene Chloride	2.782	84	23740	17.840	ug/l	91
21) trans-1,2-Dichloroethene	3.087	96	19363	17.479	ug/l	95
22) Diisopropyl ether	3.758	45	83789	20.604	ug/l	90
23) Vinyl Acetate	3.721	43	346082	96.761	ug/l	99
24) 1,1-Dichloroethane	3.605	63	44360	19.585	ug/l	99
25) 2-Butanone	4.556	43	111365	110.466	ug/l	97
26) 2,2-Dichloropropane	4.471	77	34526	19.475	ug/l	99
27) cis-1,2-Dichloroethene	4.483	96	26144	19.605	ug/l	97
28) Bromochloromethane	4.898	49	23833	21.860	ug/l	97
29) Tetrahydrofuran	5.007	42	69831	110.541	ug/l	99
30) Chloroform	5.093	83	47227	20.005	ug/l	97
31) Cyclohexane	5.465	56	34657	16.791	ug/l	99
32) 1,1,1-Trichloroethane	5.373	97	39783	19.440	ug/l	100
36) 1,1-Dichloropropene	5.690	75	27602	17.344	ug/l	98
37) Ethyl Acetate	4.721	43	39738	20.211	ug/l	99
38) Carbon Tetrachloride	5.672	117	32904	18.402	ug/l	95
39) Methylcyclohexane	7.373	83	33061	16.137	ug/l	98
40) Benzene	6.031	78	86835	18.629	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX060425\
Data File : VX046491.D
Acq On : 04 Jun 2025 11:27
Operator : JC/MD
Sample : VX0604WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 05 01:39:52 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX0604WBS01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 06/05/2025
Supervised By :Semsettin Yesilyurt 06/05/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.928	41	23318	22.671	ug/l		98
42) 1,2-Dichloroethane	6.086	62	39852	19.809	ug/l		99
43) Isopropyl Acetate	6.342	43	63564	21.191	ug/l		99
44) Trichloroethene	7.123	130	20599	18.361	ug/l		97
45) 1,2-Dichloropropane	7.428	63	22961	19.810	ug/l		96
46) Dibromomethane	7.580	93	17290	18.913	ug/l		98
47) Bromodichloromethane	7.818	83	35372	19.645	ug/l		99
48) Methyl methacrylate	7.696	41	32412	21.158	ug/l		98
49) 1,4-Dioxane	7.659	88	13462	462.828	ug/l		98
51) 4-Methyl-2-Pentanone	8.574	43	215594	108.282	ug/l		100
52) Toluene	8.714	92	54715	19.143	ug/l		99
53) t-1,3-Dichloropropene	8.976	75	30645	19.148	ug/l		95
54) cis-1,3-Dichloropropene	8.366	75	34352	19.420	ug/l		97
55) 1,1,2-Trichloroethane	9.147	97	23114	20.509	ug/l		98
56) Ethyl methacrylate	9.116	69	37067	20.636	ug/l		97
57) 1,3-Dichloropropane	9.305	76	39627	19.578	ug/l		99
58) 2-Chloroethyl Vinyl ether	8.238	63	97808	106.806	ug/l		99
59) 2-Hexanone	9.427	43	163451	110.961	ug/l		100
60) Dibromochloromethane	9.519	129	25342	20.474	ug/l		98
61) 1,2-Dibromoethane	9.610	107	23528	20.086	ug/l		100
64) Tetrachloroethene	9.269	164	18715	18.968	ug/l		95
65) Chlorobenzene	10.080	112	59399	19.461	ug/l		99
66) 1,1,1,2-Tetrachloroethane	10.159	131	21063	20.209	ug/l		98
67) Ethyl Benzene	10.189	91	105678	19.642	ug/l		99
68) m/p-Xylenes	10.299	106	78322	39.802	ug/l		99
69) o-Xylene	10.640	106	39544	20.613	ug/l		99
70) Styrene	10.653	104	64399	20.492	ug/l		99
71) Bromoform	10.799	173	15687	20.047	ug/l	#	97
73) Isopropylbenzene	10.957	105	105573	21.209	ug/l		99
74) N-amyl acetate	10.842	43	53645	21.810	ug/l		99
75) 1,1,2,2-Tetrachloroethane	11.207	83	37218	21.336	ug/l		99
76) 1,2,3-Trichloropropane	11.238	75	32568m	21.162	ug/l		
77) Bromobenzene	11.195	156	23492	20.328	ug/l		99
78) n-propylbenzene	11.299	91	117360	20.277	ug/l		98
79) 2-Chlorotoluene	11.360	91	75768	20.296	ug/l		100
80) 1,3,5-Trimethylbenzene	11.451	105	85839	20.642	ug/l		99
81) trans-1,4-Dichloro-2-b...	11.018	75	9522	20.143	ug/l		99
82) 4-Chlorotoluene	11.451	91	83569	20.186	ug/l		98
83) tert-Butylbenzene	11.713	119	87673	20.930	ug/l		100
84) 1,2,4-Trimethylbenzene	11.750	105	86879	20.630	ug/l		100
85) sec-Butylbenzene	11.890	105	108045	21.008	ug/l		100
86) p-Isopropyltoluene	12.006	119	87255	20.553	ug/l		100
87) 1,3-Dichlorobenzene	11.969	146	42116	19.969	ug/l		98
88) 1,4-Dichlorobenzene	12.037	146	44193	20.518	ug/l		98
89) n-Butylbenzene	12.329	91	75030	20.149	ug/l		99
90) Hexachloroethane	12.536	117	14661	19.602	ug/l		96
91) 1,2-Dichlorobenzene	12.329	146	44415	20.986	ug/l		98
92) 1,2-Dibromo-3-Chloropr...	12.939	75	9196	23.797	ug/l		98
93) 1,2,4-Trichlorobenzene	13.585	180	25497	20.975	ug/l		97
94) Hexachlorobutadiene	13.719	225	10415	19.618	ug/l		96
95) Naphthalene	13.774	128	94780	21.259	ug/l		100
96) 1,2,3-Trichlorobenzene	13.957	180	25741	20.522	ug/l		99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX060425\
Data File : VX046491.D
Acq On : 04 Jun 2025 11:27
Operator : JC/MD
Sample : VX0604WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 05 01:39:52 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX0604WBS01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 06/05/2025
Supervised By :Semsettin Yesilyurt 06/05/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

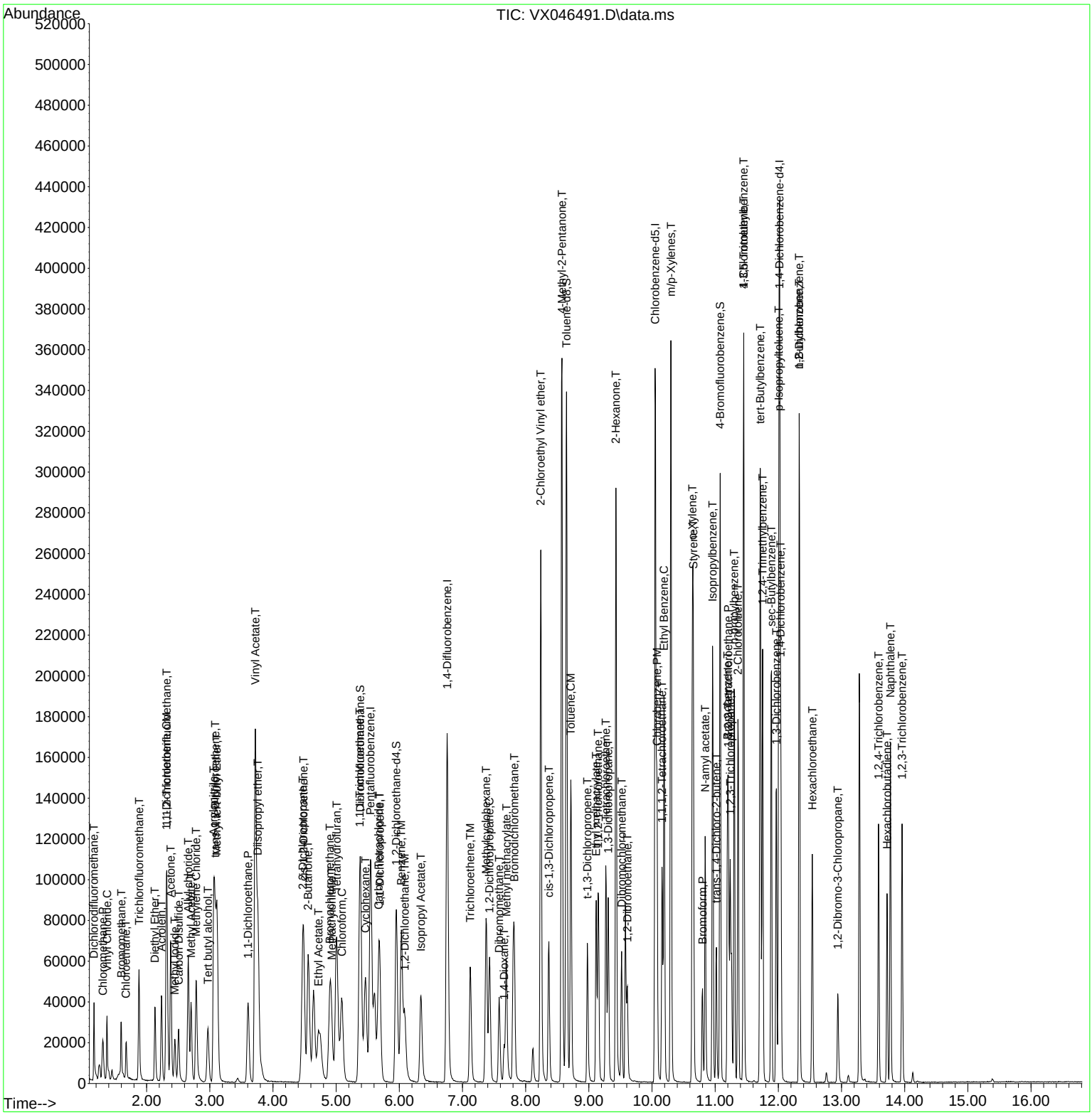
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX060425\
Data File : VX046491.D
Acq On : 04 Jun 2025 11:27
Operator : JC/MD
Sample : VX0604WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 05 01:39:52 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX0604WBS01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 06/05/2025
Supervised By :Semsettin Yesilyurt 06/05/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY060425\
Data File : VY022540.D
Acq On : 04 Jun 2025 10:54
Operator : SY/MD
Sample : VY0604SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 05 04:10:00 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y060225S.M
Quant Title : SW846 8260
QLast Update : Tue Jun 03 03:22:04 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY0604SBS01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 06/05/2025
Supervised By :Semsettin Yesilyurt 06/05/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	177182	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	307142	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	260223	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	119650	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	106897	53.943	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 107.880%			
35) Dibromofluoromethane	7.634	113	97744	53.317	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 106.640%			
50) Toluene-d8	10.103	98	395544	53.397	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 106.800%			
62) 4-Bromofluorobenzene	12.402	95	114746	51.990	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 103.980%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.867	85	35026	22.080	ug/l	90
3) Chloromethane	2.068	50	88146	18.809	ug/l	100
4) Vinyl Chloride	2.202	62	119787	22.034	ug/l	96
5) Bromomethane	2.592	94	110721	21.249	ug/l	98
6) Chloroethane	2.733	64	84104	22.539	ug/l	92
7) Trichlorofluoromethane	3.044	101	108660	23.544	ug/l	94
8) Diethyl Ether	3.452	74	22203	21.362	ug/l	97
9) 1,1,2-Trichlorotrifluo...	3.806	101	39953	20.554	ug/l	100
10) Methyl Iodide	4.001	142	37260	17.713	ug/l	98
11) Tert butyl alcohol	4.860	59	14189	100.248	ug/l #	91
12) 1,1-Dichloroethene	3.787	96	39181	21.087	ug/l	98
13) Acrolein	3.653	56	18621	105.565	ug/l	99
14) Allyl chloride	4.379	41	59207	20.298	ug/l	100
15) Acrylonitrile	5.055	53	44556	101.220	ug/l	98
16) Acetone	3.867	43	35077	87.158	ug/l	94
17) Carbon Disulfide	4.104	76	121952	20.501	ug/l	99
18) Methyl Acetate	4.379	43	23786	19.959	ug/l	99
19) Methyl tert-butyl Ether	5.110	73	105462	20.152	ug/l	100
20) Methylene Chloride	4.610	84	43768	19.146	ug/l	98
21) trans-1,2-Dichloroethene	5.110	96	42985	20.671	ug/l	95
22) Diisopropyl ether	6.019	45	135749	20.908	ug/l	98
23) Vinyl Acetate	5.958	43	382202	99.458	ug/l	99
24) 1,1-Dichloroethane	5.915	63	80929	21.158	ug/l	99
25) 2-Butanone	6.896	43	54351	93.626	ug/l	100
26) 2,2-Dichloropropane	6.884	77	68446	20.253	ug/l	100
27) cis-1,2-Dichloroethene	6.884	96	50930	21.189	ug/l	100
28) Bromochloromethane	7.244	49	34936	20.953	ug/l	99
29) Tetrahydrofuran	7.262	42	36518	97.534	ug/l	98
30) Chloroform	7.415	83	79864	21.080	ug/l	95
31) Cyclohexane	7.701	56	74481	19.559	ug/l	93
32) 1,1,1-Trichloroethane	7.610	97	71144	21.154	ug/l	99
36) 1,1-Dichloropropene	7.835	75	60956	20.487	ug/l	99
37) Ethyl Acetate	6.982	43	26561	20.018	ug/l	100
38) Carbon Tetrachloride	7.817	117	61082	20.012	ug/l	95
39) Methylcyclohexane	9.110	83	79839	19.967	ug/l	96
40) Benzene	8.079	78	182569	20.775	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY060425\
Data File : VY022540.D
Acq On : 04 Jun 2025 10:54
Operator : SY/MD
Sample : VY0604SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 05 04:10:00 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y060225S.M
Quant Title : SW846 8260
QLast Update : Tue Jun 03 03:22:04 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY0604SBS01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 06/05/2025
Supervised By :Semsettin Yesilyurt 06/05/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.238	41	18097m	23.350	ug/l		
42) 1,2-Dichloroethane	8.152	62	48113	20.051	ug/l		99
43) Isopropyl Acetate	8.195	43	54608	19.056	ug/l		99
44) Trichloroethene	8.866	130	43493	20.250	ug/l		100
45) 1,2-Dichloropropane	9.140	63	43797	21.087	ug/l		99
46) Dibromomethane	9.231	93	23454	20.073	ug/l		98
47) Bromodichloromethane	9.420	83	61994	20.924	ug/l		97
48) Methyl methacrylate	9.219	41	25682	19.095	ug/l		99
49) 1,4-Dioxane	9.231	88	5502	397.467	ug/l	#	94
51) 4-Methyl-2-Pentanone	10.000	43	133612	93.517	ug/l		98
52) Toluene	10.170	92	111969	20.274	ug/l		98
53) t-1,3-Dichloropropene	10.396	75	54358	19.581	ug/l		96
54) cis-1,3-Dichloropropene	9.853	75	65573	20.292	ug/l		96
55) 1,1,2-Trichloroethane	10.573	97	28750	19.296	ug/l		91
56) Ethyl methacrylate	10.439	69	41087	19.080	ug/l		99
57) 1,3-Dichloropropane	10.719	76	52232	19.779	ug/l		95
58) 2-Chloroethyl Vinyl ether	9.707	63	96419	98.618	ug/l		100
59) 2-Hexanone	10.762	43	87540	91.614	ug/l		100
60) Dibromochloromethane	10.908	129	37312	19.706	ug/l		98
61) 1,2-Dibromoethane	11.018	107	27846	20.505	ug/l		96
64) Tetrachloroethene	10.646	164	46715	20.869	ug/l		97
65) Chlorobenzene	11.438	112	117493	20.404	ug/l		98
66) 1,1,1,2-Tetrachloroethane	11.518	131	38244	19.715	ug/l		98
67) Ethyl Benzene	11.518	91	210828	19.739	ug/l		100
68) m/p-Xylenes	11.627	106	157542	38.910	ug/l		99
69) o-Xylene	11.950	106	75325	19.843	ug/l		99
70) Styrene	11.969	104	122002	19.443	ug/l		99
71) Bromoform	12.133	173	19189	18.589	ug/l	#	96
73) Isopropylbenzene	12.255	105	194422	19.792	ug/l		100
74) N-amyl acetate	12.066	43	46408	18.723	ug/l		99
75) 1,1,2,2-Tetrachloroethane	12.505	83	30021	18.621	ug/l		99
76) 1,2,3-Trichloropropane	12.554	75	27817m	20.322	ug/l		
77) Bromobenzene	12.530	156	41454	19.998	ug/l		98
78) n-propylbenzene	12.591	91	237604	19.804	ug/l		98
79) 2-Chlorotoluene	12.676	91	128467	20.202	ug/l		99
80) 1,3,5-Trimethylbenzene	12.737	105	154233	19.999	ug/l		100
81) trans-1,4-Dichloro-2-b...	12.304	75	10650	18.789	ug/l		98
82) 4-Chlorotoluene	12.773	91	129597	19.756	ug/l		98
83) tert-Butylbenzene	12.999	119	138927	20.071	ug/l		99
84) 1,2,4-Trimethylbenzene	13.042	105	154558	20.038	ug/l		100
85) sec-Butylbenzene	13.176	105	210444	19.851	ug/l		99
86) p-Isopropyltoluene	13.292	119	169354	19.381	ug/l		99
87) 1,3-Dichlorobenzene	13.286	146	83524	19.887	ug/l		99
88) 1,4-Dichlorobenzene	13.365	146	81311	19.960	ug/l		99
89) n-Butylbenzene	13.615	91	167479	20.202	ug/l		99
90) Hexachloroethane	13.877	117	33527	19.708	ug/l		100
91) 1,2-Dichlorobenzene	13.657	146	71253	19.982	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	14.267	75	4574	19.486	ug/l		94
93) 1,2,4-Trichlorobenzene	14.919	180	41052	21.108	ug/l		97
94) Hexachlorobutadiene	15.023	225	23044	21.468	ug/l		97
95) Naphthalene	15.145	128	73656	19.736	ug/l		98
96) 1,2,3-Trichlorobenzene	15.328	180	34247	20.547	ug/l		99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY060425\
Data File : VY022540.D
Acq On : 04 Jun 2025 10:54
Operator : SY/MD
Sample : VY0604SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 05 04:10:00 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y060225S.M
Quant Title : SW846 8260
QLast Update : Tue Jun 03 03:22:04 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY0604SBS01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 06/05/2025
Supervised By :Semsettin Yesilyurt 06/05/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

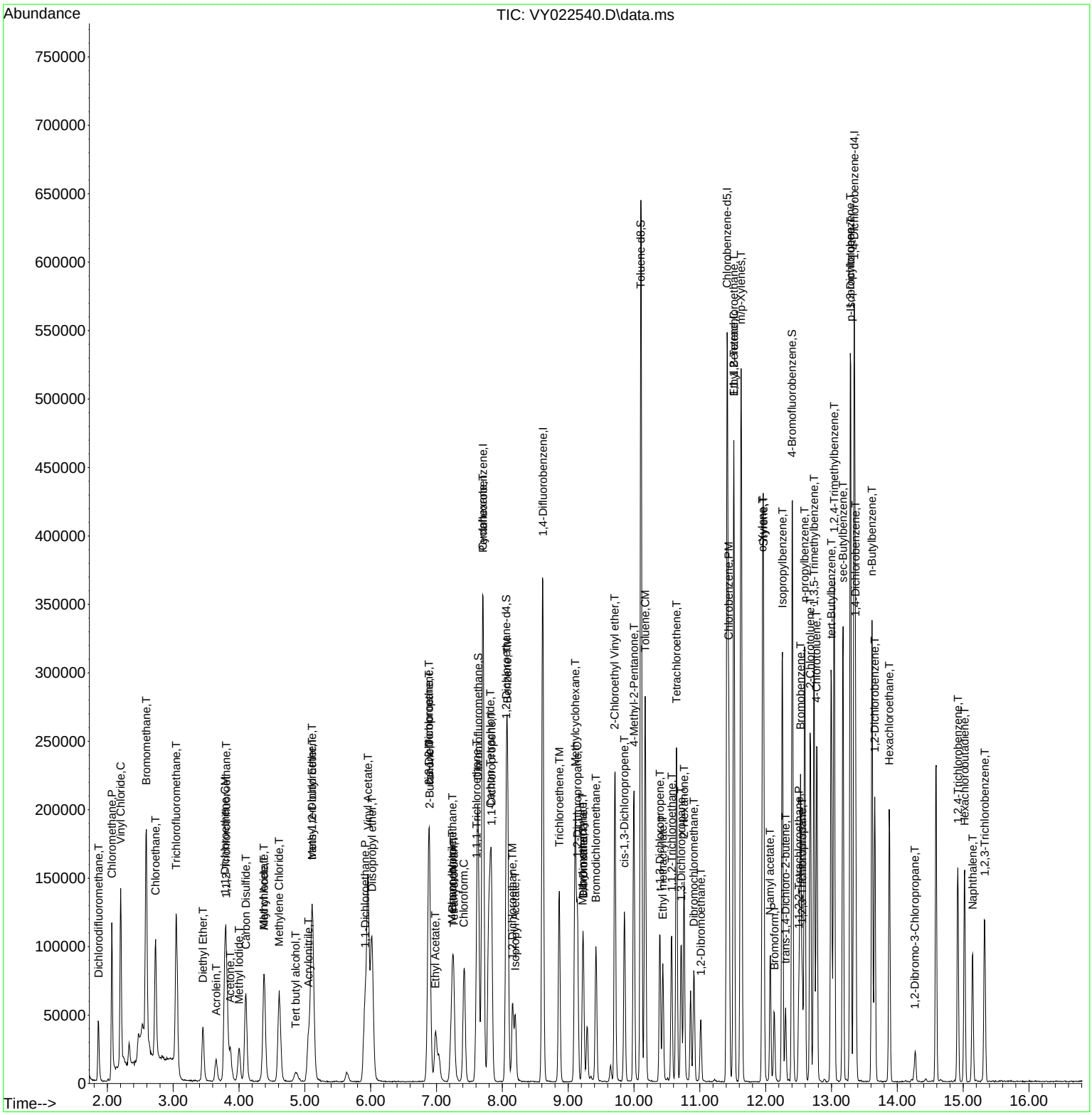
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY060425\
Data File : VY022540.D
Acq On : 04 Jun 2025 10:54
Operator : SY/MD
Sample : VY0604SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 05 04:10:00 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y060225S.M
Quant Title : SW846 8260
QLast Update : Tue Jun 03 03:22:04 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY0604SBS01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 06/05/2025
Supervised By :Semsettin Yesilyurt 06/05/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX060425\
Data File : VX046497.D
Acq On : 04 Jun 2025 13:52
Operator : JC/MD
Sample : VX0604WBSD01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 05 01:51:31 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX0604WBSD01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 06/05/2025
Supervised By :Semsettin Yesilyurt 06/05/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.550	168	84483	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	152834	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	133225	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	62838	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	81368	51.661	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 103.320%			
35) Dibromofluoromethane	5.385	113	57316	52.079	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 104.160%			
50) Toluene-d8	8.647	98	186769	49.031	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 98.060%			
62) 4-Bromofluorobenzene	11.079	95	75026	51.347	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 102.700%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	24632	19.049	ug/l	99
3) Chloromethane	1.307	50	23757	18.946	ug/l	97
4) Vinyl Chloride	1.374	62	21918	18.781	ug/l	98
5) Bromomethane	1.593	94	9220	17.033	ug/l	98
6) Chloroethane	1.672	64	15446	24.792	ug/l	94
7) Trichlorofluoromethane	1.880	101	35809	20.761	ug/l	97
8) Diethyl Ether	2.136	74	12725	21.673	ug/l	95
9) 1,1,2-Trichlorotrifluo...	2.319	101	21610	20.246	ug/l	97
10) Methyl Iodide	2.447	142	24073	19.060	ug/l	100
11) Tert butyl alcohol	2.971	59	27971	126.516	ug/l	99
12) 1,1-Dichloroethene	2.312	96	20333	20.297	ug/l	100
13) Acrolein	2.233	56	25349	100.678	ug/l	97
14) Allyl chloride	2.660	41	42621	22.262	ug/l	95
15) Acrylonitrile	3.062	53	73994	117.045	ug/l	99
16) Acetone	2.386	43	72770	115.231	ug/l	98
17) Carbon Disulfide	2.501	76	39956	16.824	ug/l	100
18) Methyl Acetate	2.703	43	45782	31.241	ug/l	99
19) Methyl tert-butyl Ether	3.117	73	82120	23.382	ug/l	100
20) Methylene Chloride	2.782	84	24899	20.575	ug/l	98
21) trans-1,2-Dichloroethene	3.087	96	20553	20.402	ug/l	98
22) Diisopropyl ether	3.763	45	85964	23.245	ug/l	98
23) Vinyl Acetate	3.721	43	352257	108.297	ug/l	100
24) 1,1-Dichloroethane	3.605	63	45805	22.237	ug/l	98
25) 2-Butanone	4.562	43	110519	120.545	ug/l	99
26) 2,2-Dichloropropane	4.471	77	32995	20.465	ug/l	99
27) cis-1,2-Dichloroethene	4.489	96	26678	21.998	ug/l	98
28) Bromochloromethane	4.897	49	22848	23.044	ug/l	98
29) Tetrahydrofuran	5.013	42	69743	121.397	ug/l	99
30) Chloroform	5.092	83	48458	22.570	ug/l	97
31) Cyclohexane	5.458	56	39649	21.123	ug/l	96
32) 1,1,1-Trichloroethane	5.379	97	41875	22.500	ug/l	97
36) 1,1-Dichloropropene	5.690	75	30800	20.829	ug/l	99
37) Ethyl Acetate	4.721	43	40135	21.968	ug/l	98
38) Carbon Tetrachloride	5.678	117	33893	20.399	ug/l	97
39) Methylcyclohexane	7.379	83	37949	19.934	ug/l	92
40) Benzene	6.031	78	92846	21.436	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX060425\
Data File : VX046497.D
Acq On : 04 Jun 2025 13:52
Operator : JC/MD
Sample : VX0604WBSD01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 05 01:51:31 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX0604WBSD01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 06/05/2025
Supervised By :Semsettin Yesilyurt 06/05/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.922	41	24996	26.155	ug/l		95
42) 1,2-Dichloroethane	6.086	62	40404	21.614	ug/l		99
43) Isopropyl Acetate	6.342	43	64639	23.192	ug/l		99
44) Trichloroethene	7.123	130	22185	21.281	ug/l		96
45) 1,2-Dichloropropane	7.427	63	23770	22.070	ug/l		98
46) Dibromomethane	7.580	93	18288	21.529	ug/l		99
47) Bromodichloromethane	7.818	83	36336	21.718	ug/l		99
48) Methyl methacrylate	7.696	41	33430	23.486	ug/l		99
49) 1,4-Dioxane	7.659	88	12861	475.862	ug/l		100
51) 4-Methyl-2-Pentanone	8.574	43	220370	119.115	ug/l		99
52) Toluene	8.714	92	57666	21.713	ug/l		98
53) t-1,3-Dichloropropene	8.976	75	30745	20.675	ug/l		99
54) cis-1,3-Dichloropropene	8.366	75	35234	21.437	ug/l		96
55) 1,1,2-Trichloroethane	9.153	97	23253	22.204	ug/l		96
56) Ethyl methacrylate	9.116	69	39616	23.736	ug/l		99
57) 1,3-Dichloropropane	9.305	76	41148	21.879	ug/l		99
58) 2-Chloroethyl Vinyl ether	8.238	63	98765	116.070	ug/l		99
59) 2-Hexanone	9.427	43	168301	122.961	ug/l		99
60) Dibromochloromethane	9.518	129	24794	21.558	ug/l		99
61) 1,2-Dibromoethane	9.610	107	23687	21.762	ug/l		96
64) Tetrachloroethene	9.269	164	19397	20.578	ug/l		94
65) Chlorobenzene	10.079	112	62199	21.331	ug/l		99
66) 1,1,1,2-Tetrachloroethane	10.159	131	21656	21.749	ug/l		99
67) Ethyl Benzene	10.195	91	113326	22.048	ug/l		99
68) m/p-Xylenes	10.299	106	80924	43.046	ug/l		94
69) o-Xylene	10.640	106	41048	22.397	ug/l		97
70) Styrene	10.652	104	67392	22.447	ug/l		97
71) Bromoform	10.799	173	15427	20.636	ug/l	#	98
73) Isopropylbenzene	10.963	105	110318	22.550	ug/l		100
74) N-amyl acetate	10.841	43	55422	22.926	ug/l		99
75) 1,1,2,2-Tetrachloroethane	11.213	83	38648	22.544	ug/l		99
76) 1,2,3-Trichloropropane	11.238	75	32723m	21.634	ug/l		
77) Bromobenzene	11.195	156	24841	21.872	ug/l		99
78) n-propylbenzene	11.305	91	124223	21.838	ug/l		99
79) 2-Chlorotoluene	11.360	91	78907	21.507	ug/l		99
80) 1,3,5-Trimethylbenzene	11.451	105	92894	22.729	ug/l		100
81) trans-1,4-Dichloro-2-b...	11.018	75	9297	20.011	ug/l		99
82) 4-Chlorotoluene	11.451	91	88804	21.826	ug/l		99
83) tert-Butylbenzene	11.713	119	92557	22.483	ug/l		99
84) 1,2,4-Trimethylbenzene	11.750	105	92688	22.395	ug/l		99
85) sec-Butylbenzene	11.890	105	111854	22.129	ug/l		99
86) p-Isopropyltoluene	12.006	119	93040	22.299	ug/l		100
87) 1,3-Dichlorobenzene	11.969	146	44995	21.707	ug/l		99
88) 1,4-Dichlorobenzene	12.036	146	44540	21.040	ug/l		98
89) n-Butylbenzene	12.329	91	79526	21.729	ug/l		98
90) Hexachloroethane	12.536	117	15772	21.457	ug/l		98
91) 1,2-Dichlorobenzene	12.335	146	46207	22.214	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	12.939	75	9047	23.821	ug/l		98
93) 1,2,4-Trichlorobenzene	13.585	180	25914	21.691	ug/l		99
94) Hexachlorobutadiene	13.725	225	11422	21.891	ug/l		100
95) Naphthalene	13.774	128	102748	23.449	ug/l		100
96) 1,2,3-Trichlorobenzene	13.957	180	26637	21.608	ug/l		99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX060425\
Data File : VX046497.D
Acq On : 04 Jun 2025 13:52
Operator : JC/MD
Sample : VX0604WBSD01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 05 01:51:31 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX0604WBSD01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 06/05/2025
Supervised By :Semsettin Yesilyurt 06/05/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

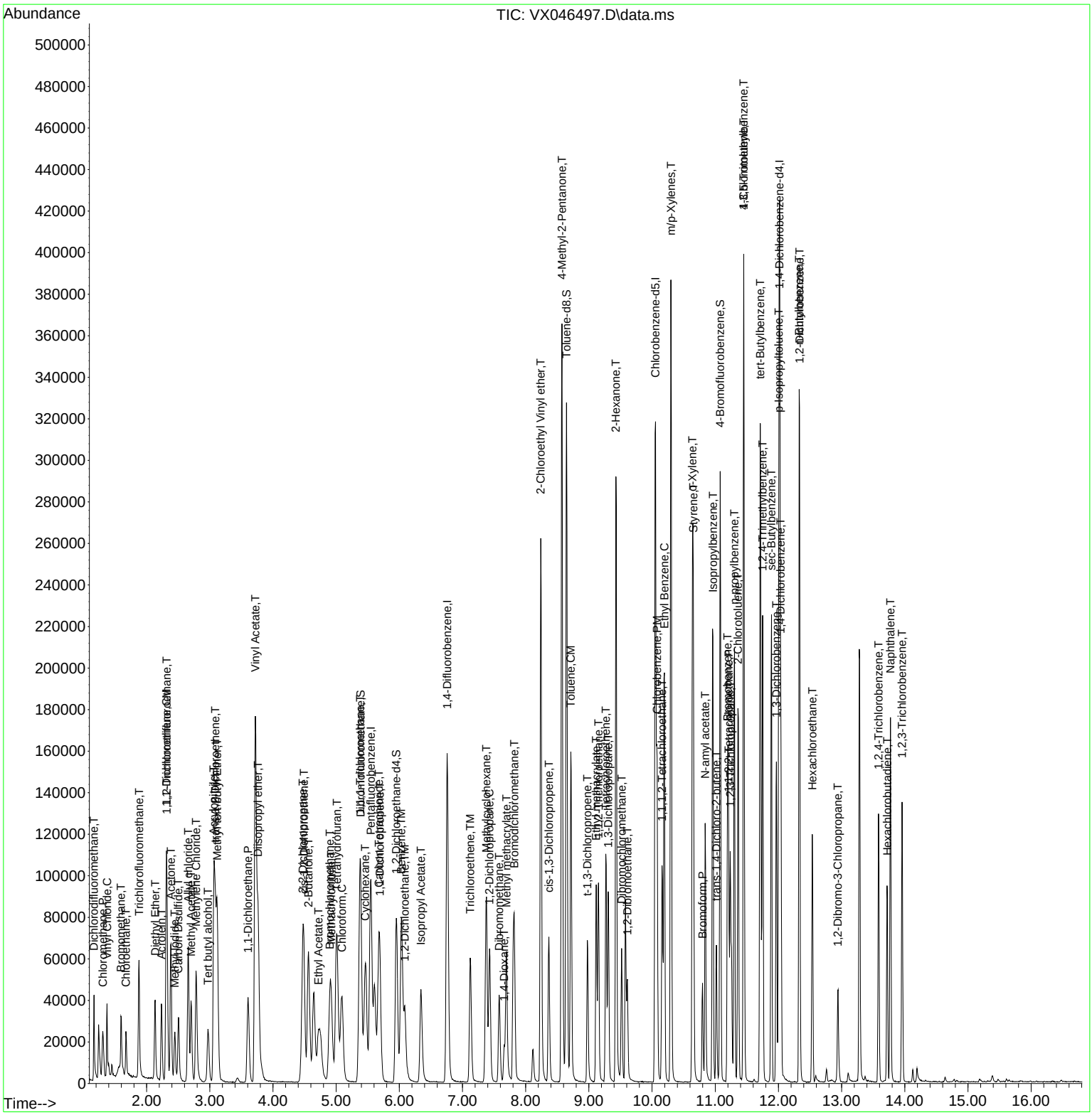
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX060425\
Data File : VX046497.D
Acq On : 04 Jun 2025 13:52
Operator : JC/MD
Sample : VX0604WBSD01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 05 01:51:31 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX0604WBSD01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 06/05/2025
Supervised By :Semsettin Yesilyurt 06/05/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY060425\
Data File : VY022541.D
Acq On : 04 Jun 2025 11:16
Operator : SY/MD
Sample : VY0604SBSD01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 05 04:10:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y060225S.M
Quant Title : SW846 8260
QLast Update : Tue Jun 03 03:22:04 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY0604SBSD01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 06/05/2025
Supervised By :Semsettin Yesilyurt 06/05/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	179220	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	309983	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	260030	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	119455	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	104473	52.120	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 104.240%			
35) Dibromofluoromethane	7.634	113	93335	50.445	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 100.900%			
50) Toluene-d8	10.103	98	376502	50.361	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 100.720%			
62) 4-Bromofluorobenzene	12.401	95	109073	48.967	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 97.940%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.867	85	35284	21.990	ug/l	95
3) Chloromethane	2.068	50	88525	18.675	ug/l	99
4) Vinyl Chloride	2.202	62	124287	22.601	ug/l	100
5) Bromomethane	2.586	94	115662	21.944	ug/l	95
6) Chloroethane	2.726	64	87250	23.116	ug/l	99
7) Trichlorofluoromethane	3.043	101	112317	24.059	ug/l	95
8) Diethyl Ether	3.452	74	22123	21.043	ug/l	99
9) 1,1,2-Trichlorotrifluo...	3.812	101	41480	21.097	ug/l	98
10) Methyl Iodide	4.001	142	41715	19.605	ug/l	99
11) Tert butyl alcohol	4.872	59	16173	112.966	ug/l #	88
12) 1,1-Dichloroethene	3.787	96	39705	21.126	ug/l	95
13) Acrolein	3.647	56	19881	111.427	ug/l	97
14) Allyl chloride	4.385	41	60883	20.635	ug/l	100
15) Acrylonitrile	5.055	53	48823	109.653	ug/l	98
16) Acetone	3.866	43	40457	99.383	ug/l	91
17) Carbon Disulfide	4.104	76	127027	21.111	ug/l	99
18) Methyl Acetate	4.385	43	26588	22.056	ug/l	96
19) Methyl tert-butyl Ether	5.116	73	114382	21.608	ug/l	97
20) Methylene Chloride	4.610	84	45844	19.826	ug/l	97
21) trans-1,2-Dichloroethene	5.110	96	45327	21.549	ug/l	93
22) Diisopropyl ether	6.018	45	139507	21.242	ug/l	98
23) Vinyl Acetate	5.958	43	415034	106.773	ug/l	98
24) 1,1-Dichloroethane	5.915	63	83510	21.585	ug/l	99
25) 2-Butanone	6.896	43	61284	104.368	ug/l	99
26) 2,2-Dichloropropane	6.884	77	69661	20.378	ug/l	99
27) cis-1,2-Dichloroethene	6.890	96	52045	21.407	ug/l	98
28) Bromochloromethane	7.244	49	34034	20.180	ug/l	98
29) Tetrahydrofuran	7.268	42	41613	109.878	ug/l	97
30) Chloroform	7.421	83	82942	21.644	ug/l	97
31) Cyclohexane	7.701	56	77602	20.147	ug/l	96
32) 1,1,1-Trichloroethane	7.616	97	72843	21.413	ug/l	99
36) 1,1-Dichloropropene	7.835	75	60454	20.132	ug/l	100
37) Ethyl Acetate	6.988	43	28333	21.157	ug/l	99
38) Carbon Tetrachloride	7.817	117	61931	20.104	ug/l	98
39) Methylcyclohexane	9.109	83	79347	19.662	ug/l	98
40) Benzene	8.079	78	185571	20.923	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY060425\
Data File : VY022541.D
Acq On : 04 Jun 2025 11:16
Operator : SY/MD
Sample : VY0604SBSD01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 05 04:10:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y060225S.M
Quant Title : SW846 8260
QLast Update : Tue Jun 03 03:22:04 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY0604SBSD01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 06/05/2025
Supervised By :Semsettin Yesilyurt 06/05/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.219	41	16324	20.869	ug/l		94
42) 1,2-Dichloroethane	8.158	62	50725	20.946	ug/l		99
43) Isopropyl Acetate	8.195	43	61020	21.098	ug/l		98
44) Trichloroethene	8.866	130	44269	20.422	ug/l		99
45) 1,2-Dichloropropane	9.140	63	44426	21.194	ug/l		98
46) Dibromomethane	9.231	93	24682	20.930	ug/l		100
47) Bromodichloromethane	9.420	83	62495	20.900	ug/l		94
48) Methyl methacrylate	9.219	41	28590	21.062	ug/l		100
49) 1,4-Dioxane	9.231	88	5823	416.801	ug/l		89
51) 4-Methyl-2-Pentanone	9.999	43	152107	105.486	ug/l		100
52) Toluene	10.170	92	114854	20.606	ug/l		99
53) t-1,3-Dichloropropene	10.396	75	56768	20.262	ug/l		99
54) cis-1,3-Dichloropropene	9.853	75	67799	20.789	ug/l		97
55) 1,1,2-Trichloroethane	10.573	97	31778	21.133	ug/l		95
56) Ethyl methacrylate	10.438	69	44603	20.523	ug/l		99
57) 1,3-Dichloropropane	10.719	76	57346	21.517	ug/l		100
58) 2-Chloroethyl Vinyl ether	9.713	63	103545	104.936	ug/l		99
59) 2-Hexanone	10.762	43	98699	102.345	ug/l		100
60) Dibromochloromethane	10.908	129	38348	20.068	ug/l		99
61) 1,2-Dibromoethane	11.011	107	28215	20.587	ug/l		99
64) Tetrachloroethene	10.646	164	49080	21.942	ug/l		98
65) Chlorobenzene	11.438	112	121009	21.030	ug/l		97
66) 1,1,1,2-Tetrachloroethane	11.518	131	38613	19.920	ug/l		97
67) Ethyl Benzene	11.518	91	215923	20.231	ug/l		100
68) m/p-Xylenes	11.627	106	163650	40.448	ug/l		100
69) o-Xylene	11.950	106	77044	20.311	ug/l		99
70) Styrene	11.969	104	127477	20.330	ug/l		99
71) Bromoform	12.127	173	20119	19.504	ug/l	#	96
73) Isopropylbenzene	12.255	105	198789	20.270	ug/l		99
74) N-amyl acetate	12.066	43	52528	21.227	ug/l		100
75) 1,1,2,2-Tetrachloroethane	12.505	83	34485	21.424	ug/l		96
76) 1,2,3-Trichloropropane	12.554	75	29720m	21.747	ug/l		
77) Bromobenzene	12.530	156	43188	20.868	ug/l		98
78) n-propylbenzene	12.590	91	245680	20.510	ug/l		99
79) 2-Chlorotoluene	12.676	91	134165	21.133	ug/l		100
80) 1,3,5-Trimethylbenzene	12.731	105	156441	20.318	ug/l		97
81) trans-1,4-Dichloro-2-b...	12.298	75	11467	20.263	ug/l		99
82) 4-Chlorotoluene	12.773	91	134743	20.574	ug/l		100
83) tert-Butylbenzene	12.993	119	145202	21.012	ug/l		98
84) 1,2,4-Trimethylbenzene	13.042	105	159935	20.768	ug/l		99
85) sec-Butylbenzene	13.170	105	213038	20.129	ug/l		100
86) p-Isopropyltoluene	13.292	119	173168	19.850	ug/l		100
87) 1,3-Dichlorobenzene	13.285	146	86314	20.585	ug/l		99
88) 1,4-Dichlorobenzene	13.365	146	85459	21.013	ug/l		99
89) n-Butylbenzene	13.615	91	171235	20.688	ug/l		99
90) Hexachloroethane	13.877	117	35034	20.628	ug/l		99
91) 1,2-Dichlorobenzene	13.657	146	75027	21.074	ug/l		98
92) 1,2-Dibromo-3-Chloropr...	14.273	75	5340	22.786	ug/l		96
93) 1,2,4-Trichlorobenzene	14.919	180	41161	21.199	ug/l		99
94) Hexachlorobutadiene	15.023	225	23069	21.526	ug/l		98
95) Naphthalene	15.139	128	81018	21.744	ug/l		100
96) 1,2,3-Trichlorobenzene	15.322	180	36181	21.743	ug/l		98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY060425\
Data File : VY022541.D
Acq On : 04 Jun 2025 11:16
Operator : SY/MD
Sample : VY0604SBSD01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 05 04:10:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y060225S.M
Quant Title : SW846 8260
QLast Update : Tue Jun 03 03:22:04 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY0604SBSD01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 06/05/2025
Supervised By :Semsettin Yesilyurt 06/05/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

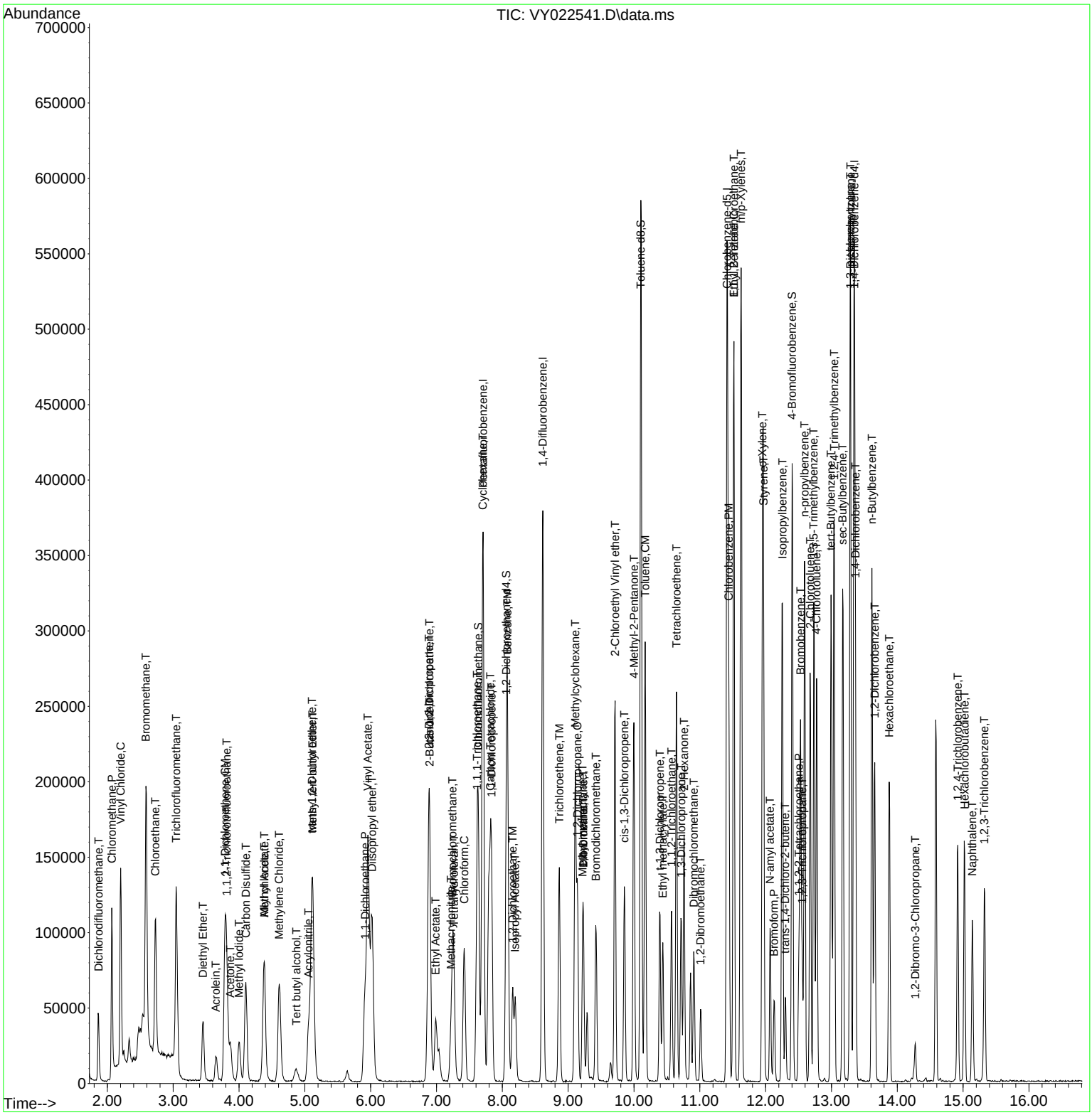
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY060425\
Data File : VY022541.D
Acq On : 04 Jun 2025 11:16
Operator : SY/MD
Sample : VY0604SBSD01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 05 04:10:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y060225S.M
Quant Title : SW846 8260
QLast Update : Tue Jun 03 03:22:04 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY0604SBSD01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 06/05/2025
Supervised By :Semsettin Yesilyurt 06/05/2025



284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

Manual Integration Report

Sequence:	VX050525	Instrument	MSVOA_x

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC020	VX046041.D	1,2,3-Trichloropropane	JOHN	5/6/2025 9:53:13 AM	MMDadoda	5/6/2025 12:42:46 PM	Peak Integrated by Software
VSTDICCC050	VX046042.D	1,2,3-Trichloropropane	JOHN	5/6/2025 9:53:18 AM	MMDadoda	5/6/2025 12:42:48 PM	Peak Integrated by Software
VSTDICC100	VX046043.D	1,2,3-Trichloropropane	JOHN	5/6/2025 9:53:22 AM	MMDadoda	5/6/2025 12:42:50 PM	Peak Integrated by Software
VSTDICC150	VX046044.D	1,2,3-Trichloropropane	JOHN	5/6/2025 9:53:27 AM	MMDadoda	5/6/2025 12:42:53 PM	Peak Integrated by Software
VSTDICC005	VX046046.D	1,2,3-Trichloropropane	JOHN	5/6/2025 9:53:32 AM	MMDadoda	5/6/2025 12:42:56 PM	Peak Integrated by Software
VSTDICC005	VX046046.D	Ethyl Acetate	JOHN	5/6/2025 9:53:32 AM	MMDadoda	5/6/2025 12:42:56 PM	Peak Integrated by Software
VSTDICC001	VX046047.D	1,2,3-Trichloropropane	JOHN	5/6/2025 9:53:38 AM	MMDadoda	5/6/2025 12:41:35 PM	Peak Integrated by Software
VSTDICC001	VX046047.D	1,4-Dichlorobenzene	JOHN	5/6/2025 9:53:38 AM	MMDadoda	5/6/2025 12:41:35 PM	Peak Integrated by Software
VSTDICC001	VX046047.D	Bromochloromethane	JOHN	5/6/2025 9:53:38 AM	MMDadoda	5/6/2025 12:41:35 PM	Peak Integrated by Software
VSTDICC001	VX046047.D	Ethyl Acetate	JOHN	5/6/2025 9:53:38 AM	MMDadoda	5/6/2025 12:41:35 PM	Peak Integrated by Software
VSTDICC001	VX046047.D	Methyl methacrylate	JOHN	5/6/2025 9:53:38 AM	MMDadoda	5/6/2025 12:41:35 PM	Peak Integrated by Software
VSTDICV050	VX046048.D	1,2,3-Trichloropropane	JOHN	5/6/2025 9:53:45 AM	MMDadoda	5/6/2025 12:41:37 PM	Peak Integrated by Software

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

Manual Integration Report

Sequence:	VX050525	Instrument	MSVOA_x

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

Manual Integration Report

Sequence:	VX060425	Instrument	MSVOA_x

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VX046488.D	1,2,3-Trichloropropane	MMDadoda	6/5/2025 4:44:18 PM	SAM	6/5/2025 4:47:19 PM	Peak Integrated by Software
VSTDCCC050	VX046488.D	Methacrylonitrile	MMDadoda	6/5/2025 4:44:18 PM	SAM	6/5/2025 4:47:19 PM	Peak Integrated by Software
VX0604WBS01	VX046491.D	1,2,3-Trichloropropane	MMDadoda	6/5/2025 4:44:20 PM	SAM	6/5/2025 4:47:20 PM	Peak Integrated by Software
VX0604WBSD01	VX046497.D	1,2,3-Trichloropropane	MMDadoda	6/5/2025 4:44:23 PM	SAM	6/5/2025 4:47:24 PM	Peak Integrated by Software
VSTDCCC050	VX046515.D	1,2,3-Trichloropropane	SAM	6/5/2025 4:47:29 PM	MMdadoda	6/6/2025 1:00:26 AM	Peak Integrated by Software

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

Manual Integration Report

Sequence:	vy060225	Instrument	MSVOA_y

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC005	VY022491.D	1,2,3-Trichloropropane	SAM	6/3/2025 8:26:25 AM	MMDadoda	6/3/2025 2:38:13 PM	Peak Integrated by Software
VSTDICC005	VY022491.D	1,4-Dioxane	SAM	6/3/2025 8:26:25 AM	MMDadoda	6/3/2025 2:38:13 PM	Peak Integrated by Software
VSTDICC005	VY022491.D	Ethyl Acetate	SAM	6/3/2025 8:26:25 AM	MMDadoda	6/3/2025 2:38:13 PM	Peak Integrated by Software
VSTDICC010	VY022492.D	1,2,3-Trichloropropane	SAM	6/3/2025 8:26:30 AM	MMDadoda	6/3/2025 2:38:15 PM	Peak Integrated by Software
VSTDICC010	VY022492.D	Dibromomethane	SAM	6/3/2025 8:26:30 AM	MMDadoda	6/3/2025 2:38:15 PM	Peak Integrated by Software
VSTDICC010	VY022492.D	Methacrylonitrile	SAM	6/3/2025 8:26:30 AM	MMDadoda	6/3/2025 2:38:15 PM	Peak Integrated by Software
VSTDICC020	VY022493.D	1,2,3-Trichloropropane	SAM	6/3/2025 8:28:00 AM	MMDadoda	6/3/2025 2:38:17 PM	Peak Integrated by Software
VSTDICCC050	VY022494.D	1,2,3-Trichloropropane	SAM	6/3/2025 8:28:05 AM	MMDadoda	6/3/2025 2:38:19 PM	Peak Integrated by Software
VSTDICC100	VY022495.D	1,2,3-Trichloropropane	SAM	6/3/2025 8:26:35 AM	MMDadoda	6/3/2025 2:38:20 PM	Peak Integrated by Software
VSTDICC100	VY022495.D	Methacrylonitrile	SAM	6/3/2025 8:26:35 AM	MMDadoda	6/3/2025 2:38:20 PM	Peak Integrated by Software
VSTDICC150	VY022496.D	1,2,3-Trichloropropane	SAM	6/3/2025 8:28:09 AM	MMDadoda	6/3/2025 2:38:22 PM	Peak Integrated by Software
VSTDICV050	VY022498.D	1,2,3-Trichloropropane	SAM	6/3/2025 8:26:42 AM	MMDadoda	6/3/2025 2:38:25 PM	Peak Integrated by Software
VSTDCCC050	VY022509.D	1,2,3-Trichloropropane	SAM	6/3/2025 8:27:00 AM	MMDadoda	6/3/2025 2:38:29 PM	Peak Integrated by Software

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

Manual Integration Report

Sequence:	vy060225	Instrument	MSVOA_y

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

Manual Integration Report

Sequence:	vy060425	Instrument	MSVOA_y

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VY022538.D	1,2,3-Trichloropropane	MMDadoda	6/5/2025 4:43:30 PM	SAM	6/5/2025 4:46:48 PM	Peak Integrated by Software
VSTDCCC050	VY022538.D	Methacrylonitrile	MMDadoda	6/5/2025 4:43:30 PM	SAM	6/5/2025 4:46:48 PM	Peak Integrated by Software
VY0604SBS01	VY022540.D	1,2,3-Trichloropropane	MMDadoda	6/5/2025 4:43:28 PM	SAM	6/5/2025 4:46:49 PM	Peak Integrated by Software
VY0604SBS01	VY022540.D	Methacrylonitrile	MMDadoda	6/5/2025 4:43:28 PM	SAM	6/5/2025 4:46:49 PM	Peak Integrated by Software
VY0604SBSD01	VY022541.D	1,2,3-Trichloropropane	MMDadoda	6/5/2025 4:43:27 PM	SAM	6/5/2025 4:46:51 PM	Peak Integrated by Software
VSTDCCC050	VY022558.D	1,2,3-Trichloropropane	MMDadoda	6/5/2025 4:43:22 PM	SAM	6/5/2025 4:46:55 PM	Peak Integrated by Software

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX050525

Review By	John Carlone	Review On	5/6/2025 9:53:58 AM		
Supervise By	Mahesh Dadoda	Supervise On	5/6/2025 12:43:00 PM		
SubDirectory	VX050525	HP Acquire Method		HP Processing Method	82X050525W.M

STD. NAME	STD REF.#
Tune/Reschk	VP133811
Initial Calibration Stds	VP133832,VP133833,VP133834,VP133835,VP133836,VP133837
CCC	
Internal Standard/PEM	
ICV/I.BLK	VP133838
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VX046038.D	05 May 2025 09:37	JC/MD	Ok
2	VSTDICC001	VX046039.D	05 May 2025 10:49	JC/MD	Not Ok
3	VSTDICC005	VX046040.D	05 May 2025 11:12	JC/MD	Not Ok
4	VSTDICC020	VX046041.D	05 May 2025 11:35	JC/MD	Ok,M
5	VSTDICCC050	VX046042.D	05 May 2025 11:58	JC/MD	Ok,M
6	VSTDICC100	VX046043.D	05 May 2025 12:21	JC/MD	Ok,M
7	VSTDICC150	VX046044.D	05 May 2025 12:45	JC/MD	Ok,M
8	IBLK	VX046045.D	05 May 2025 13:08	JC/MD	Ok
9	VSTDICC005	VX046046.D	05 May 2025 16:04	JC/MD	Ok,M
10	VSTDICC001	VX046047.D	05 May 2025 16:27	JC/MD	Ok,M
11	VSTDICV050	VX046048.D	05 May 2025 16:50	JC/MD	Ok,M

M : Manual Integration

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Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX060425

Review By	Mahesh Dadoda	Review On	6/5/2025 4:44:40 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	6/5/2025 4:48:33 PM		
SubDirectory	VX060425	HP Acquire Method		HP Processing Method	82X050525W.M

STD. NAME	STD REF.#
Tune/Reschk	VP134124
Initial Calibration Stds	
CCC	VP134125,VP134126
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VX046487.D	04 Jun 2025 09:43	JC/MD	Ok
2	VSTDCCC050	VX046488.D	04 Jun 2025 10:12	JC/MD	Ok,M
3	VX0604MBL01	VX046489.D	04 Jun 2025 10:40	JC/MD	Ok
4	VX0604WBL01	VX046490.D	04 Jun 2025 11:04	JC/MD	Ok
5	VX0604WBS01	VX046491.D	04 Jun 2025 11:27	JC/MD	Ok,M
6	Q2169-03DL	VX046492.D	04 Jun 2025 11:55	JC/MD	Ok
7	Q2168-08DL	VX046493.D	04 Jun 2025 12:18	JC/MD	Ok
8	Q2168-12DL	VX046494.D	04 Jun 2025 12:41	JC/MD	Ok
9	Q2169-01	VX046495.D	04 Jun 2025 13:05	JC/MD	Not Ok
10	Q2175-05	VX046496.D	04 Jun 2025 13:28	JC/MD	Ok
11	VX0604WBSD01	VX046497.D	04 Jun 2025 13:52	JC/MD	Ok,M
12	Q2200-01DL	VX046498.D	04 Jun 2025 14:15	JC/MD	Ok
13	Q2200-02	VX046499.D	04 Jun 2025 14:39	JC/MD	Ok
14	Q2200-05	VX046500.D	04 Jun 2025 15:02	JC/MD	Dilution
15	Q2175-06	VX046501.D	04 Jun 2025 15:26	JC/MD	Dilution
16	IBLK	VX046502.D	04 Jun 2025 15:50	JC/MD	Ok
17	IBLK	VX046503.D	04 Jun 2025 16:13	JC/MD	Ok
18	Q2200-03	VX046504.D	04 Jun 2025 16:37	JC/MD	Ok
19	Q2201-01	VX046505.D	04 Jun 2025 17:01	JC/MD	Ok
20	Q2198-05	VX046506.D	04 Jun 2025 17:25	JC/MD	Ok
21	IBLK	VX046507.D	04 Jun 2025 17:49	JC/MD	Ok

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Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX060425

Review By	Mahesh Dadoda	Review On	6/5/2025 4:44:40 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	6/5/2025 4:48:33 PM		
SubDirectory	VX060425	HP Acquire Method		HP Processing Method	82X050525W.M

STD. NAME	STD REF.#
Tune/Reschk	VP134124
Initial Calibration Stds	
CCC	VP134125,VP134126
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	Q2200-01	VX046508.D	04 Jun 2025 18:12	JC/MD	Dilution
23	Q2200-05DL	VX046509.D	04 Jun 2025 18:36	JC/MD	Ok
24	Q2200-06	VX046510.D	04 Jun 2025 19:00	JC/MD	Ok
25	Q2175-06DL	VX046511.D	04 Jun 2025 19:24	JC/MD	Ok,M
26	VX0604MBS01	VX046512.D	04 Jun 2025 19:47	JC/MD	Ok,M
27	Q2168-11ME	VX046513.D	04 Jun 2025 20:11	JC/MD	Dilution
28	Q2168-07ME	VX046514.D	04 Jun 2025 20:35	JC/MD	Ok
29	VSTDCCC050	VX046515.D	04 Jun 2025 20:59	JC/MD	Ok,M

M : Manual Integration

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Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY060225

Review By	Mahesh Dadoda	Review On	6/3/2025 2:38:36 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	6/3/2025 2:39:16 PM		
SubDirectory	VY060225	HP Acquire Method	MSVOA_Y	HP Processing Method	82Y060225S.M

STD. NAME	STD REF.#
Tune/Reschk	VP134084
Initial Calibration Stds	VP134085,VP134086,VP134087,VP134088,VP134089,VP134090
CCC	VP134092,VP134093
Internal Standard/PEM	VP133934
ICV/I.BLK	VP134091
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VY022488.D	02 Jun 2025 08:31	SY/MD	Ok
2	VSTDCCC050	VY022489.D	02 Jun 2025 09:08	SY/MD	Not Ok
3	VY0602SBL01	VY022490.D	02 Jun 2025 10:38	SY/MD	Not Ok
4	VSTDICC005	VY022491.D	02 Jun 2025 11:46	SY/MD	Ok,M
5	VSTDICC010	VY022492.D	02 Jun 2025 12:09	SY/MD	Ok,M
6	VSTDICC020	VY022493.D	02 Jun 2025 12:32	SY/MD	Ok,M
7	VSTDICCC050	VY022494.D	02 Jun 2025 12:54	SY/MD	Ok,M
8	VSTDICC100	VY022495.D	02 Jun 2025 13:17	SY/MD	Ok,M
9	VSTDICC150	VY022496.D	02 Jun 2025 13:39	SY/MD	Ok,M
10	VIBLK	VY022497.D	02 Jun 2025 14:03	SY/MD	Ok
11	VSTDICV050	VY022498.D	02 Jun 2025 14:59	SY/MD	Ok,M
12	VY0602SBL02	VY022499.D	02 Jun 2025 16:00	SY/MD	Ok
13	VY0602SBS01	VY022500.D	02 Jun 2025 16:24	SY/MD	Ok,M
14	VY0602SBSD01	VY022501.D	02 Jun 2025 16:47	SY/MD	Ok,M
15	Q2160-02	VY022502.D	02 Jun 2025 17:10	SY/MD	Ok
16	Q2152-01	VY022503.D	02 Jun 2025 17:34	SY/MD	Not Ok
17	Q2153-01RE	VY022504.D	02 Jun 2025 17:57	SY/MD	Confirms
18	Q2147-02	VY022505.D	02 Jun 2025 18:21	SY/MD	Not Ok
19	Q2150-02	VY022506.D	02 Jun 2025 18:44	SY/MD	Ok
20	Q2150-05RE	VY022507.D	02 Jun 2025 19:08	SY/MD	Confirms
21	Q2161-01	VY022508.D	02 Jun 2025 19:31	SY/MD	Ok

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Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY060225

Review By	Mahesh Dadoda	Review On	6/3/2025 2:38:36 PM				
Supervise By	Semsettin Yesilyurt	Supervise On	6/3/2025 2:39:16 PM				
SubDirectory	VY060225	HP Acquire Method	MSVOA_Y	HP Processing Method	82Y060225S.M		

STD. NAME	STD REF.#
Tune/Reschk	VP134084
Initial Calibration Stds	VP134085,VP134086,VP134087,VP134088,VP134089,VP134090
CCC	VP134092,VP134093
Internal Standard/PEM	VP133934
ICV/I.BLK	VP134091
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	VSTDCCC050	VY022509.D	02 Jun 2025 19:54	SY/MD	Ok,M

M : Manual Integration

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Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY060425

Review By	Mahesh Dadoda	Review On	6/5/2025 4:43:35 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	6/5/2025 4:47:03 PM		
SubDirectory	VY060425	HP Acquire Method	MSVOA_Y	HP Processing Method	82y060225s.m

STD. NAME	STD REF.#
Tune/Reschk	VP134109
Initial Calibration Stds	
CCC	VP134110,VP134111,MDL VP134112,VP134113
Internal Standard/PEM	VP133934
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VY022537.D	04 Jun 2025 08:48	SY/MD	Ok
2	VSTDCCC050	VY022538.D	04 Jun 2025 09:54	SY/MD	Ok,M
3	VY0604SBL01	VY022539.D	04 Jun 2025 10:24	SY/MD	Ok
4	VY0604SBS01	VY022540.D	04 Jun 2025 10:54	SY/MD	Ok,M
5	VY0604SBSD01	VY022541.D	04 Jun 2025 11:16	SY/MD	Ok,M
6	Q2126-03	VY022542.D	04 Jun 2025 11:53	SY/MD	Ok,M
7	Q2126-03	VY022543.D	04 Jun 2025 12:16	SY/MD	Ok,M
8	Q2168-03RE	VY022544.D	04 Jun 2025 12:39	SY/MD	Confirms
9	Q2182-01RE	VY022545.D	04 Jun 2025 13:03	SY/MD	Confirms
10	Q2195-01	VY022546.D	04 Jun 2025 13:26	SY/MD	ReRun
11	Q2194-01	VY022547.D	04 Jun 2025 13:50	SY/MD	Ok
12	Q2194-03	VY022548.D	04 Jun 2025 14:13	SY/MD	ReRun
13	Q2199-02	VY022549.D	04 Jun 2025 14:37	SY/MD	ReRun
14	Q2199-04	VY022550.D	04 Jun 2025 15:00	SY/MD	Not Ok
15	Q2199-06	VY022551.D	04 Jun 2025 15:24	SY/MD	Ok
16	Q2198-01	VY022552.D	04 Jun 2025 15:47	SY/MD	Ok
17	Q2198-03	VY022553.D	04 Jun 2025 16:11	SY/MD	Ok
18	Q2177-02	VY022554.D	04 Jun 2025 16:34	SY/MD	Ok
19	Q2177-04	VY022555.D	04 Jun 2025 16:58	SY/MD	Ok
20	Q2177-06	VY022556.D	04 Jun 2025 17:21	SY/MD	ReRun
21	VIBLK	VY022557.D	04 Jun 2025 17:45	SY/MD	Ok

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Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY060425

Review By	Mahesh Dadoda	Review On	6/5/2025 4:43:35 PM				
Supervise By	Semsettin Yesilyurt	Supervise On	6/5/2025 4:47:03 PM				
SubDirectory	VY060425	HP Acquire Method	MSVOA_Y	HP Processing Method	82y060225s.m		

STD. NAME	STD REF.#
Tune/Reschk	VP134109
Initial Calibration Stds	
CCC	VP134110,VP134111,MDL VP134112,VP134113
Internal Standard/PEM	VP133934
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	VSTDCCC050	VY022558.D	04 Jun 2025 18:30	SY/MD	Ok,M

M : Manual Integration

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Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX050525

Review By	John Carlone	Review On	5/6/2025 9:53:58 AM		
Supervise By	Mahesh Dadoda	Supervise On	5/6/2025 12:43:00 PM		
SubDirectory	VX050525	HP Acquire Method		HP Processing Method	82X050525W.M

STD. NAME	STD REF.#
Tune/Reschk	VP133811
Initial Calibration Stds	VP133832,VP133833,VP133834,VP133835,VP133836,VP133837
CCC	
Internal Standard/PEM	
ICV/I.BLK	VP133838
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VX046038.D	05 May 2025 09:37		JC/MD	Ok
2	VSTDICC001	VSTDICC001	VX046039.D	05 May 2025 10:49	Not used	JC/MD	Not Ok
3	VSTDICC005	VSTDICC005	VX046040.D	05 May 2025 11:12	Not used	JC/MD	Not Ok
4	VSTDICC020	VSTDICC020	VX046041.D	05 May 2025 11:35		JC/MD	Ok,M
5	VSTDICCC050	VSTDICCC050	VX046042.D	05 May 2025 11:58		JC/MD	Ok,M
6	VSTDICC100	VSTDICC100	VX046043.D	05 May 2025 12:21		JC/MD	Ok,M
7	VSTDICC150	VSTDICC150	VX046044.D	05 May 2025 12:45		JC/MD	Ok,M
8	IBLK	IBLK	VX046045.D	05 May 2025 13:08		JC/MD	Ok
9	VSTDICC005	VSTDICC005	VX046046.D	05 May 2025 16:04		JC/MD	Ok,M
10	VSTDICC001	VSTDICC001	VX046047.D	05 May 2025 16:27		JC/MD	Ok,M
11	VSTDICV050	ICVVX050525	VX046048.D	05 May 2025 16:50		JC/MD	Ok,M

M : Manual Integration

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Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX060425

Review By	Mahesh Dadoda	Review On	6/5/2025 4:44:40 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	6/5/2025 4:48:33 PM		
SubDirectory	VX060425	HP Acquire Method		HP Processing Method	82X050525W.M

STD. NAME	STD REF.#
Tune/Reschk	VP134124
Initial Calibration Stds	
CCC	VP134125,VP134126
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VX046487.D	04 Jun 2025 09:43		JC/MD	Ok
2	VSTDCCC050	VSTDCCC050	VX046488.D	04 Jun 2025 10:12	pH#Lot#V12668	JC/MD	Ok,M
3	VX0604MBL01	VX0604MBL01	VX046489.D	04 Jun 2025 10:40		JC/MD	Ok
4	VX0604WBL01	VX0604WBL01	VX046490.D	04 Jun 2025 11:04		JC/MD	Ok
5	VX0604WBS01	VX0604WBS01	VX046491.D	04 Jun 2025 11:27	BS failed low for comp. #17	JC/MD	Ok,M
6	Q2169-03DL	303-PPR-2DL	VX046492.D	04 Jun 2025 11:55	vial B pH<2	JC/MD	Ok
7	Q2168-08DL	B3DL	VX046493.D	04 Jun 2025 12:18	vial B pH#5.0	JC/MD	Ok
8	Q2168-12DL	C2DL	VX046494.D	04 Jun 2025 12:41	vial B pH#5.0	JC/MD	Ok
9	Q2169-01	303-PPR-1	VX046495.D	04 Jun 2025 13:05	vial B pH<2;not req	JC/MD	Not Ok
10	Q2175-05	52525-B	VX046496.D	04 Jun 2025 13:28	vial A pH<2 foamy sample	JC/MD	Ok
11	VX0604WBSD01	VX0604WBSD01	VX046497.D	04 Jun 2025 13:52		JC/MD	Ok,M
12	Q2200-01DL	RMW-02B-66-060325D	VX046498.D	04 Jun 2025 14:15	vial A pH<2	JC/MD	Ok
13	Q2200-02	RMW-03B-90-060325	VX046499.D	04 Jun 2025 14:39	vial A pH<2	JC/MD	Ok
14	Q2200-05	MW-11B-37.5-060325	VX046500.D	04 Jun 2025 15:02	vial A pH<2 Need 200X	JC/MD	Dilution
15	Q2175-06	EGR-LIQUID	VX046501.D	04 Jun 2025 15:26	vial A pH<2 Need 2000X	JC/MD	Dilution
16	IBLK	IBLK	VX046502.D	04 Jun 2025 15:50		JC/MD	Ok
17	IBLK	IBLK	VX046503.D	04 Jun 2025 16:13		JC/MD	Ok
18	Q2200-03	EB01-060325	VX046504.D	04 Jun 2025 16:37	vial A pH<2 EB	JC/MD	Ok

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Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX060425

Review By	Mahesh Dadoda	Review On	6/5/2025 4:44:40 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	6/5/2025 4:48:33 PM		
SubDirectory	VX060425	HP Acquire Method		HP Processing Method	82X050525W.M

STD. NAME	STD REF.#
Tune/Reschk	VP134124
Initial Calibration Stds	
CCC	VP134125,VP134126
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	Q2201-01	MW-01-6.5-060325	VX046505.D	04 Jun 2025 17:01	vial A pH<2	JC/MD	Ok
20	Q2198-05	B-202-GW01	VX046506.D	04 Jun 2025 17:25	vial A pH<2	JC/MD	Ok
21	IBLK	IBLK	VX046507.D	04 Jun 2025 17:49		JC/MD	Ok
22	Q2200-01	RMW-02B-66-060325	VX046508.D	04 Jun 2025 18:12	vial B pH<2 Need 100X	JC/MD	Dilution
23	Q2200-05DL	MW-11B-37.5-060325D	VX046509.D	04 Jun 2025 18:36	vial B pH<2	JC/MD	Ok
24	Q2200-06	TB-01-060325	VX046510.D	04 Jun 2025 19:00	vial A pH<2 TB	JC/MD	Ok
25	Q2175-06DL	EGR-LIQUIDDL	VX046511.D	04 Jun 2025 19:24	vial B pH<2	JC/MD	Ok,M
26	VX0604MBS01	VX0604MBS01	VX046512.D	04 Jun 2025 19:47		JC/MD	Ok,M
27	Q2168-11ME	C2ME	VX046513.D	04 Jun 2025 20:11	Need 5X	JC/MD	Dilution
28	Q2168-07ME	B3ME	VX046514.D	04 Jun 2025 20:35		JC/MD	Ok
29	VSTDCCC050	VSTDCCC050EC	VX046515.D	04 Jun 2025 20:59		JC/MD	Ok,M

M : Manual Integration

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Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY060225

Review By	Mahesh Dadoda	Review On	6/3/2025 2:38:36 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	6/3/2025 2:39:16 PM		
SubDirectory	VY060225	HP Acquire Method	MSVOA_Y	HP Processing Method	82Y060225S.M

STD. NAME	STD REF.#
Tune/Reschk	VP134084
Initial Calibration Stds	VP134085,VP134086,VP134087,VP134088,VP134089,VP134090
CCC	VP134092,VP134093
Internal Standard/PEM	VP133934
ICV/I.BLK	VP134091
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VY022488.D	02 Jun 2025 08:31		SY/MD	Ok
2	VSTDCCC050	VSTDCCC050	VY022489.D	02 Jun 2025 09:08	Need ICAL	SY/MD	Not Ok
3	VY0602SBL01	VY0602SBL01	VY022490.D	02 Jun 2025 10:38		SY/MD	Not Ok
4	VSTDICC005	VSTDICC005	VY022491.D	02 Jun 2025 11:46		SY/MD	Ok,M
5	VSTDICC010	VSTDICC010	VY022492.D	02 Jun 2025 12:09		SY/MD	Ok,M
6	VSTDICC020	VSTDICC020	VY022493.D	02 Jun 2025 12:32		SY/MD	Ok,M
7	VSTDICCC050	VSTDICCC050	VY022494.D	02 Jun 2025 12:54		SY/MD	Ok,M
8	VSTDICC100	VSTDICC100	VY022495.D	02 Jun 2025 13:17		SY/MD	Ok,M
9	VSTDICC150	VSTDICC150	VY022496.D	02 Jun 2025 13:39		SY/MD	Ok,M
10	VIBLK	VIBLK	VY022497.D	02 Jun 2025 14:03		SY/MD	Ok
11	VSTDICV050	ICVVY060225	VY022498.D	02 Jun 2025 14:59	Icv Fail For DOD For Com.# 18	SY/MD	Ok,M
12	VY0602SBL02	VY0602SBL02	VY022499.D	02 Jun 2025 16:00		SY/MD	Ok
13	VY0602SBS01	VY0602SBS01	VY022500.D	02 Jun 2025 16:24		SY/MD	Ok,M
14	VY0602SBSD01	VY0602SBSD01	VY022501.D	02 Jun 2025 16:47		SY/MD	Ok,M
15	Q2160-02	TP04-MHG-VOC	VY022502.D	02 Jun 2025 17:10	vial A	SY/MD	Ok
16	Q2152-01	OK-02-05292025	VY022503.D	02 Jun 2025 17:34	Not Purged,vial B	SY/MD	Not Ok
17	Q2153-01RE	TR-04-0592025RE	VY022504.D	02 Jun 2025 17:57	Surrogate Fail;Internal Standard Fail, vial B	SY/MD	Confirms

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Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY060225

Review By	Mahesh Dadoda	Review On	6/3/2025 2:38:36 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	6/3/2025 2:39:16 PM		
SubDirectory	VY060225	HP Acquire Method	MSVOA_Y	HP Processing Method	82Y060225S.M

STD. NAME	STD REF.#
Tune/Reschk	VP134084
Initial Calibration Stds	VP134085,VP134086,VP134087,VP134088,VP134089,VP134090
CCC	VP134092,VP134093
Internal Standard/PEM	VP133934
ICV/I.BLK	VP134091
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

18	Q2147-02	VOC	VY022505.D	02 Jun 2025 18:21	Not purge,vial B	SY/MD	Not Ok
19	Q2150-02	TP-42	VY022506.D	02 Jun 2025 18:44	vial B	SY/MD	Ok
20	Q2150-05RE	TP-47RE	VY022507.D	02 Jun 2025 19:08	Internal Standard Fail,vial B	SY/MD	Confirms
21	Q2161-01	B27-SOIL-SAMPLE	VY022508.D	02 Jun 2025 19:31	vial-B,Internal Standard Fail; Surrogate Fail	SY/MD	Ok
22	VSTDCCC050	VSTDCCC050EC	VY022509.D	02 Jun 2025 19:54		SY/MD	Ok,M

M : Manual Integration

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Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY060425

Review By	Mahesh Dadoda	Review On	6/5/2025 4:43:35 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	6/5/2025 4:47:03 PM		
SubDirectory	VY060425	HP Acquire Method	MSVOA_Y	HP Processing Method	82y060225s.m

STD. NAME	STD REF.#
Tune/Reschk	VP134109
Initial Calibration Stds	
CCC	VP134110,VP134111,MDL VP134112,VP134113
Internal Standard/PEM	VP133934
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VY022537.D	04 Jun 2025 08:48		SY/MD	Ok
2	VSTDCCC050	VSTDCCC050	VY022538.D	04 Jun 2025 09:54		SY/MD	Ok,M
3	VY0604SBL01	VY0604SBL01	VY022539.D	04 Jun 2025 10:24		SY/MD	Ok
4	VY0604SBS01	VY0604SBS01	VY022540.D	04 Jun 2025 10:54		SY/MD	Ok,M
5	VY0604SBSD01	VY0604SBSD01	VY022541.D	04 Jun 2025 11:16		SY/MD	Ok,M
6	Q2126-03	MDL-SOIL-03-QT2-202	VY022542.D	04 Jun 2025 11:53		SY/MD	Ok,M
7	Q2126-03	MDL-SOIL-03-QT2-202	VY022543.D	04 Jun 2025 12:16		SY/MD	Ok,M
8	Q2168-03RE	A3RE	VY022544.D	04 Jun 2025 12:39	vial-B Internal Standard Fail; Surrogate Fail	SY/MD	Confirms
9	Q2182-01RE	OR-03-06022025RE	VY022545.D	04 Jun 2025 13:03	vial-B Internal Standard Fail	SY/MD	Confirms
10	Q2195-01	OK-01-060325	VY022546.D	04 Jun 2025 13:26	vial-A Internal Standard Fail	SY/MD	ReRun
11	Q2194-01	COMP-12	VY022547.D	04 Jun 2025 13:50	vial-A	SY/MD	Ok
12	Q2194-03	COMP-13	VY022548.D	04 Jun 2025 14:13	vial-A Internal Standard Fail	SY/MD	ReRun
13	Q2199-02	ETGI-343	VY022549.D	04 Jun 2025 14:37	vial-A Internal Standard Fail	SY/MD	ReRun
14	Q2199-04	VNJ-231	VY022550.D	04 Jun 2025 15:00	vial-A Not purge	SY/MD	Not Ok
15	Q2199-06	72-11978	VY022551.D	04 Jun 2025 15:24	vial-A	SY/MD	Ok
16	Q2198-01	B-202-SB02	VY022552.D	04 Jun 2025 15:47	vial-A	SY/MD	Ok
17	Q2198-03	B-207-SB02	VY022553.D	04 Jun 2025 16:11	vial-A	SY/MD	Ok

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Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY060425

Review By	Mahesh Dadoda	Review On	6/5/2025 4:43:35 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	6/5/2025 4:47:03 PM		
SubDirectory	VY060425	HP Acquire Method	MSVOA_Y	HP Processing Method	82y060225s.m

STD. NAME	STD REF.#
Tune/Reschk	VP134109
Initial Calibration Stds	
CCC	VP134110,VP134111,MDL VP134112,VP134113
Internal Standard/PEM	VP133934
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

18	Q2177-02	B-187-SB01	VY022554.D	04 Jun 2025 16:34	vial-A	SY/MD	Ok
19	Q2177-04	B-187-SB02	VY022555.D	04 Jun 2025 16:58	vial-A	SY/MD	Ok
20	Q2177-06	B-202-SB01	VY022556.D	04 Jun 2025 17:21	vial-A Internal Standard Fail	SY/MD	ReRun
21	VIBLK	VIBLK	VY022557.D	04 Jun 2025 17:45		SY/MD	Ok
22	VSTDCCC050	VSTDCCC050EC	VY022558.D	04 Jun 2025 18:30		SY/MD	Ok,M

M : Manual Integration

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LAB CHRONICLE

OrderID:	Q2198	**OrderDate:**	6/3/2025 2:31:00 PM
Client:	Portal Partners Tri-Venture	**Project:**	Amtrak Sawtooth Bridges 2025
Contact:	Joseph Krupansky	**Location:**	N22,VOA Ref. #2 Soil,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2198-01	**B-202-SB02**	**SOIL**			**05/31/25**			**06/03/25**
			VOC-TCLVOA-10	8260D			06/04/25	
Q2198-02	**B-202-SB02**	**TCLP**			**05/31/25**			**06/03/25**
			TCLP VOA	8260D			06/09/25	
Q2198-03	**B-207-SB02**	**SOIL**			**06/01/25**			**06/03/25**
			VOC-TCLVOA-10	8260D			06/04/25	
Q2198-04	**B-207-SB02**	**TCLP**			**06/01/25**			**06/03/25**
			TCLP VOA	8260D			06/09/25	
Q2198-05	**B-202-GW01**	**Water**			**05/31/25**			**06/03/25**
			VOC-TCLVOA-10	8260-Low			06/04/25	

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Hit Summary Sheet
SW-846

SDG No.: Q2198

Client: Portal Partners Tri-Venture

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID:								

0

Total Voc :

Total Concentration:

SAMPLE DATA

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	05/31/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	06/03/25
Client Sample ID:	B-202-SB02	SDG No.:	Q2198
Lab Sample ID:	Q2198-02	Matrix:	TCLP
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	TCLP VOA
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :	SW5035		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN086905.D	1		06/09/25 15:08	VN060925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	0.26	U	0.26	5.00	ug/L
75-35-4	1,1-Dichloroethene	0.23	U	0.23	5.00	ug/L
78-93-3	2-Butanone	0.98	U	0.98	25.0	ug/L
56-23-5	Carbon Tetrachloride	0.25	U	0.25	5.00	ug/L
67-66-3	Chloroform	0.25	U	0.25	5.00	ug/L
71-43-2	Benzene	0.15	U	0.15	5.00	ug/L
107-06-2	1,2-Dichloroethane	0.22	U	0.22	5.00	ug/L
79-01-6	Trichloroethene	0.090	U	0.090	5.00	ug/L
127-18-4	Tetrachloroethene	0.23	U	0.23	5.00	ug/L
108-90-7	Chlorobenzene	0.12	U	0.12	5.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	42.4		70 (74) - 130 (125)	85%	SPK: 50
1868-53-7	Dibromofluoromethane	48.0		70 (75) - 130 (124)	96%	SPK: 50
2037-26-5	Toluene-d8	50.7		70 (86) - 130 (113)	101%	SPK: 50
460-00-4	4-Bromofluorobenzene	48.7		70 (77) - 130 (121)	97%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	429000	8.229			
540-36-3	1,4-Difluorobenzene	754000	9.106			
3114-55-4	Chlorobenzene-d5	652000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	315000	13.788			

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	06/01/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	06/03/25
Client Sample ID:	B-207-SB02	SDG No.:	Q2198
Lab Sample ID:	Q2198-04	Matrix:	TCLP
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	TCLP VOA
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :	SW5035		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN086906.D	1		06/09/25 15:30	VN060925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	0.26	U	0.26	5.00	ug/L
75-35-4	1,1-Dichloroethene	0.23	U	0.23	5.00	ug/L
78-93-3	2-Butanone	0.98	U	0.98	25.0	ug/L
56-23-5	Carbon Tetrachloride	0.25	U	0.25	5.00	ug/L
67-66-3	Chloroform	0.25	U	0.25	5.00	ug/L
71-43-2	Benzene	0.15	U	0.15	5.00	ug/L
107-06-2	1,2-Dichloroethane	0.22	U	0.22	5.00	ug/L
79-01-6	Trichloroethene	0.090	U	0.090	5.00	ug/L
127-18-4	Tetrachloroethene	0.23	U	0.23	5.00	ug/L
108-90-7	Chlorobenzene	0.12	U	0.12	5.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	43.6		70 (74) - 130 (125)	87%	SPK: 50
1868-53-7	Dibromofluoromethane	48.4		70 (75) - 130 (124)	97%	SPK: 50
2037-26-5	Toluene-d8	50.9		70 (86) - 130 (113)	102%	SPK: 50
460-00-4	4-Bromofluorobenzene	48.9		70 (77) - 130 (121)	98%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	420000	8.23			
540-36-3	1,4-Difluorobenzene	749000	9.106			
3114-55-4	Chlorobenzene-d5	650000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	318000	13.788			

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

QC SUMMARY

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Surrogate Summary

SDG No.: Q2198

Client: Portal Partners Tri-Venture

Analytical Method: SW8260D

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits Low	Limits High
Q2198-02	B-202-SB02	1,2-Dichloroethane-d4	50	42.4	85	70 (74)	130 (125)
		Dibromofluoromethane	50	48.0	96	70 (75)	130 (124)
		Toluene-d8	50	50.8	101	70 (86)	130 (113)
		4-Bromofluorobenzene	50	48.7	97	70 (77)	130 (121)
Q2198-04	B-207-SB02	1,2-Dichloroethane-d4	50	43.6	87	70 (74)	130 (125)
		Dibromofluoromethane	50	48.4	97	70 (75)	130 (124)
		Toluene-d8	50	50.9	102	70 (86)	130 (113)
		4-Bromofluorobenzene	50	48.9	98	70 (77)	130 (121)

( ) = LABORATORY INHOUSE LIMIT

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Surrogate Summary

SDG No.: Q2198

Client: Portal Partners Tri-Venture

Analytical Method: SW8260-Low

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits Low	Limits High
VN0609WBL01	VN0609WBL01	1,2-Dichloroethane-d4	50	42.8	86	70 (74)	130 (125)
		Dibromofluoromethane	50	48.1	96	70 (75)	130 (124)
		Toluene-d8	50	50.7	101	70 (86)	130 (113)
		4-Bromofluorobenzene	50	48.9	98	70 (77)	130 (121)
VN0609WBS01	VN0609WBS01	1,2-Dichloroethane-d4	50	56.6	113	70 (74)	130 (125)
		Dibromofluoromethane	50	58.6	117	70 (75)	130 (124)
		Toluene-d8	50	55.2	110	70 (86)	130 (113)
		4-Bromofluorobenzene	50	55.7	111	70 (77)	130 (121)
VN0609WBSD0	VN0609WBSD01	1,2-Dichloroethane-d4	50	44.5	89	70 (74)	130 (125)
		Dibromofluoromethane	50	50.5	101	70 (75)	130 (124)
		Toluene-d8	50	48.2	96	70 (86)	130 (113)
		4-Bromofluorobenzene	50	47.7	95	70 (77)	130 (121)

( ) = LABORATORY INHOUSE LIMIT

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2198

Client: Portal Partners Tri-Venture

Analytical Method: SW8260-Low **Datafile :** VN086893.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VN0609WBS01	Vinyl chloride	20	18.3	ug/L	92			70 (65)	130 (117)	
	1,1-Dichloroethene	20	20.1	ug/L	101			70 (74)	130 (110)	
	2-Butanone	100	100	ug/L	100			40 (65)	160 (122)	
	Carbon Tetrachloride	20	19.3	ug/L	97			70 (77)	130 (113)	
	Chloroform	20	20.0	ug/L	100			70 (79)	130 (113)	
	Benzene	20	20.2	ug/L	101			70 (82)	130 (109)	
	1,2-Dichloroethane	20	21.4	ug/L	107			70 (80)	130 (115)	
	Trichloroethene	20	20.9	ug/L	104			70 (77)	130 (113)	
	Tetrachloroethene	20	19.5	ug/L	98			70 (67)	130 (123)	
	Chlorobenzene	20	20.9	ug/L	104			70 (82)	130 (109)	

( ) = LABORATORY INHOUSE LIMIT

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2198

Client: Portal Partners Tri-Venture

Analytical Method: SW8260-Low **Datafile :** VN086902.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	Limits RPD
VN0609WBSD01	Vinyl chloride	20	18.2	ug/L	91	1		70 (65)	130 (117)	20 (20)
	1,1-Dichloroethene	20	19.5	ug/L	98	3		70 (74)	130 (110)	20 (20)
	2-Butanone	100	82.3	ug/L	82	20		40 (65)	160 (122)	20 (20)
	Carbon Tetrachloride	20	19.4	ug/L	97	0		70 (77)	130 (113)	20 (20)
	Chloroform	20	18.4	ug/L	92	8		70 (79)	130 (113)	20 (20)
	Benzene	20	19.0	ug/L	95	6		70 (82)	130 (109)	20 (20)
	1,2-Dichloroethane	20	18.8	ug/L	94	13		70 (80)	130 (115)	20 (20)
	Trichloroethene	20	20.4	ug/L	102	2		70 (77)	130 (113)	20 (20)
	Tetrachloroethene	20	19.2	ug/L	96	2		70 (67)	130 (123)	20 (20)
	Chlorobenzene	20	20.3	ug/L	102	2		70 (82)	130 (109)	20 (20)

( ) = LABORATORY INHOUSE LIMIT

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VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VN0609WBL01

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q2198 SAS No.: Q2198 SDG NO.: Q2198

Lab File ID: VN086890.D Lab Sample ID: VN0609WBL01

Date Analyzed: 06/09/2025 Time Analyzed: 09:33

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

Instrument ID: MSVOA_N

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VN0609WBS01	VN0609WBS01	VN086893.D	06/09/2025
VN0609WBSD01	VN0609WBSD01	VN086902.D	06/09/2025
B-202-SB02	Q2198-02	VN086905.D	06/09/2025
B-207-SB02	Q2198-04	VN086906.D	06/09/2025

COMMENTS:

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q2198 SAS No.: Q2198 SDG NO.: Q2198

Lab File ID: VN086861.D BFB Injection Date: 06/06/2025

Instrument ID: MSVOA_N BFB Injection Time: 07:59

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	17.3
75	30.0 - 60.0% of mass 95	48.1
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.4
173	Less than 2.0% of mass 174	0.7 (1) 1
174	50.0 - 100.0% of mass 95	66.6
175	5.0 - 9.0% of mass 174	4.7 (7.1) 1
176	95.0 - 101.0% of mass 174	65.3 (98.1) 1
177	5.0 - 9.0% of mass 176	4.4 (6.8) 2

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

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDICC001	VSTDICC001	VN086862.D	06/06/2025	12:44
VSTDICC005	VSTDICC005	VN086863.D	06/06/2025	13:17
VSTDICC020	VSTDICC020	VN086864.D	06/06/2025	13:40
VSTDICCC050	VSTDICCC050	VN086865.D	06/06/2025	14:03
VSTDICC100	VSTDICC100	VN086866.D	06/06/2025	14:26
VSTDICC150	VSTDICC150	VN086867.D	06/06/2025	14:49

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q2198 SAS No.: Q2198 SDG NO.: Q2198

Lab File ID: VN086887.D BFB Injection Date: 06/09/2025

Instrument ID: MSVOA_N BFB Injection Time: 08:04

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	15.3
75	30.0 - 60.0% of mass 95	46.4
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	0.4 (0.5) 1
174	50.0 - 100.0% of mass 95	73.5
175	5.0 - 9.0% of mass 174	5.7 (7.8) 1
176	95.0 - 101.0% of mass 174	70.4 (95.8) 1
177	5.0 - 9.0% of mass 176	4.9 (6.9) 2

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

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VN086888.D	06/09/2025	08:37
VN0609WBL01	VN0609WBL01	VN086890.D	06/09/2025	09:33
VN0609WBS01	VN0609WBS01	VN086893.D	06/09/2025	10:50
VN0609WBSD01	VN0609WBSD01	VN086902.D	06/09/2025	14:04
B-202-SB02	Q2198-02	VN086905.D	06/09/2025	15:08
B-207-SB02	Q2198-04	VN086906.D	06/09/2025	15:30

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q2198 SAS No.: Q2198 SDG NO.: Q2198

Lab File ID: VN086888.D Date Analyzed: 06/09/2025

Instrument ID: MSVOA_N Time Analyzed: 08:37

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	261450	8.23	451735	9.11	380922	11.87
UPPER LIMIT	522900	8.729	903470	9.606	761844	12.365
LOWER LIMIT	130725	7.729	225868	8.606	190461	11.365
EPA SAMPLE NO.						
B-202-SB02	429044	8.23	754017	9.11	651717	11.87
B-207-SB02	419597	8.23	749093	9.11	650156	11.87
VN0609WBL01	390256	8.23	684606	9.11	591728	11.87
VN0609WBS01	266986	8.23	481053	9.11	422488	11.87
VN0609WBSD01	261604	8.23	462540	9.11	392287	11.87

IS1 = Pentafluorobenzene
IS2 = 1,4-Difluorobenzene
IS3 = Chlorobenzene-d5

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

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q2198 SAS No.: Q2198 SDG NO.: Q2198

Lab File ID: VN086888.D Date Analyzed: 06/09/2025

Instrument ID: MSVOA_N Time Analyzed: 08:37

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

	IS4 AREA #	RT #				
12 HOUR STD	178512	13.788				
UPPER LIMIT	357024	14.288				
LOWER LIMIT	89256	13.288				
EPA SAMPLE NO.						
B-202-SB02	315202	13.79				
B-207-SB02	318394	13.79				
VN0609WBL01	288224	13.79				
VN0609WBS01	202169	13.79				
VN0609WBSD01	182953	13.79				

IS4 = 1,4-Dichlorobenzene-d4

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

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

QC SAMPLE DATA

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VN0609WBL01	SDG No.:	Q2198
Lab Sample ID:	VN0609WBL01	Matrix:	TCLP
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	TCLP VOA
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN086890.D	1		06/09/25 09:33	VN060925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	0.26	U	0.26	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.23	U	0.23	1.00	ug/L
78-93-3	2-Butanone	0.98	U	0.98	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.25	U	0.25	1.00	ug/L
67-66-3	Chloroform	0.25	U	0.25	1.00	ug/L
71-43-2	Benzene	0.15	U	0.15	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.22	U	0.22	1.00	ug/L
79-01-6	Trichloroethene	0.090	U	0.090	1.00	ug/L
127-18-4	Tetrachloroethene	0.23	U	0.23	1.00	ug/L
108-90-7	Chlorobenzene	0.12	U	0.12	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	42.8		70 (74) - 130 (125)	86%	SPK: 50
1868-53-7	Dibromofluoromethane	48.1		70 (75) - 130 (124)	96%	SPK: 50
2037-26-5	Toluene-d8	50.7		70 (86) - 130 (113)	101%	SPK: 50
460-00-4	4-Bromofluorobenzene	48.9		70 (77) - 130 (121)	98%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	390000	8.229			
540-36-3	1,4-Difluorobenzene	685000	9.106			
3114-55-4	Chlorobenzene-d5	592000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	288000	13.788			

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements
J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VN0609WBS01	SDG No.:	Q2198
Lab Sample ID:	VN0609WBS01	Matrix:	TCLP
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	TCLP VOA
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN086893.D	1		06/09/25 10:50	VN060925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	18.3		0.26	1.00	ug/L
75-35-4	1,1-Dichloroethene	20.1		0.23	1.00	ug/L
78-93-3	2-Butanone	100		0.98	5.00	ug/L
56-23-5	Carbon Tetrachloride	19.3		0.25	1.00	ug/L
67-66-3	Chloroform	20.0		0.25	1.00	ug/L
71-43-2	Benzene	20.2		0.15	1.00	ug/L
107-06-2	1,2-Dichloroethane	21.4		0.22	1.00	ug/L
79-01-6	Trichloroethene	20.9		0.090	1.00	ug/L
127-18-4	Tetrachloroethene	19.5		0.23	1.00	ug/L
108-90-7	Chlorobenzene	20.9		0.12	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	56.6		70 (74) - 130 (125)	113%	SPK: 50
1868-53-7	Dibromofluoromethane	58.6		70 (75) - 130 (124)	117%	SPK: 50
2037-26-5	Toluene-d8	55.2		70 (86) - 130 (113)	110%	SPK: 50
460-00-4	4-Bromofluorobenzene	55.7		70 (77) - 130 (121)	111%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	267000	8.23			
540-36-3	1,4-Difluorobenzene	481000	9.106			
3114-55-4	Chlorobenzene-d5	422000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	202000	13.788			

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VN0609WBSD01	SDG No.:	Q2198
Lab Sample ID:	VN0609WBSD01	Matrix:	TCLP
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	TCLP VOA
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN086902.D	1		06/09/25 14:04	VN060925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	18.2		0.26	1.00	ug/L
75-35-4	1,1-Dichloroethene	19.5		0.23	1.00	ug/L
78-93-3	2-Butanone	82.3		0.98	5.00	ug/L
56-23-5	Carbon Tetrachloride	19.4		0.25	1.00	ug/L
67-66-3	Chloroform	18.4		0.25	1.00	ug/L
71-43-2	Benzene	19.0		0.15	1.00	ug/L
107-06-2	1,2-Dichloroethane	18.8		0.22	1.00	ug/L
79-01-6	Trichloroethene	20.4		0.090	1.00	ug/L
127-18-4	Tetrachloroethene	19.2		0.23	1.00	ug/L
108-90-7	Chlorobenzene	20.3		0.12	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	44.4		70 (74) - 130 (125)	89%	SPK: 50
1868-53-7	Dibromofluoromethane	50.5		70 (75) - 130 (124)	101%	SPK: 50
2037-26-5	Toluene-d8	48.2		70 (86) - 130 (113)	96%	SPK: 50
460-00-4	4-Bromofluorobenzene	47.7		70 (77) - 130 (121)	95%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	262000	8.23			
540-36-3	1,4-Difluorobenzene	463000	9.106			
3114-55-4	Chlorobenzene-d5	392000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	183000	13.788			

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

CALIBRATION SUMMARY

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VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q2198 SAS No.: Q2198 SDG No.: Q2198

Instrument ID: MSVOA_N Calibration Date(s): 06/06/2025 06/06/2025

Heated Purge: (Y/N) N Calibration Time(s): 12:44 14:49

GC Column: RXI-624 ID: 0.25 (mm)

LAB FILE ID: RRF001 = VN086862.D RRF005 = VN086863.D RRF020 = VN086864.D
RRF050 = VN086865.D RRF100 = VN086866.D RRF150 = VN086867.D

COMPOUND	RRF001	RRF005	RRF020	RRF050	RRF100	RRF150	$\overline{RRF}$	% RSD
Vinyl Chloride	0.670	0.670	0.684	0.640	0.673	0.648	0.664	2.5
1,1-Dichloroethene	0.573	0.593	0.563	0.533	0.550	0.527	0.557	4.4
2-Butanone	0.604	0.598	0.604	0.551	0.573	0.533	0.577	5.2
Carbon Tetrachloride	0.453	0.449	0.434	0.409	0.435	0.421	0.433	3.9
Chloroform	1.235	1.152	1.145	1.061	1.085	1.030	1.118	6.7
Benzene	1.588	1.501	1.444	1.345	1.414	1.371	1.444	6.2
1,2-Dichloroethane	0.473	0.456	0.444	0.411	0.430	0.413	0.438	5.6
Trichloroethene	0.359	0.360	0.341	0.327	0.340	0.328	0.342	4.2
Tetrachloroethene	0.355	0.331	0.312	0.294	0.313	0.293	0.316	7.5
Chlorobenzene	1.233	1.135	1.107	1.023	1.089	1.030	1.103	7
1,2-Dichloroethane-d4		0.732	0.707	0.500	0.656	0.751	0.669	15.1
Dibromofluoromethane		0.303	0.310	0.219	0.298	0.351	0.296	16.2
Toluene-d8		1.245	1.203	0.861	1.178	1.377	1.173	16.2
4-Bromofluorobenzene		0.441	0.446	0.325	0.446	0.521	0.436	16.2

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

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VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q2198 SAS No.: Q2198 SDG No.: Q2198

Instrument ID: MSVOA_N Calibration Date/Time: 06/09/2025 08:37

Lab File ID: VN086888.D Init. Calib. Date(s): 06/06/2025 06/06/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 12:44 14:49

GC Column: RXI-624 ID: 0.25 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Vinyl Chloride	0.664	0.635		-4.37	20
1,1-Dichloroethene	0.557	0.556		-0.18	20
2-Butanone	0.577	0.476		-17.5	20
Carbon Tetrachloride	0.433	0.431		-0.46	20
Chloroform	1.118	1.055		-5.64	20
Benzene	1.444	1.423		-1.45	20
1,2-Dichloroethane	0.438	0.420		-4.11	20
Trichloroethene	0.342	0.352		2.92	20
Tetrachloroethene	0.316	0.318		0.63	20
Chlorobenzene	1.103	1.140	0.3	3.35	20
1,2-Dichloroethane-d4	0.669	0.579		-13.45	20
Dibromofluoromethane	0.296	0.295		-0.34	20
Toluene-d8	1.173	1.125		-4.09	20
4-Bromofluorobenzene	0.436	0.405		-7.11	20

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

SAMPLE RAW DATA

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060925\
Data File : VN086905.D
Acq On : 09 Jun 2025 15:08
Operator : JC\MD
Sample : Q2198-02
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
B-202-SB02

Quant Time: Jun 10 03:34:20 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

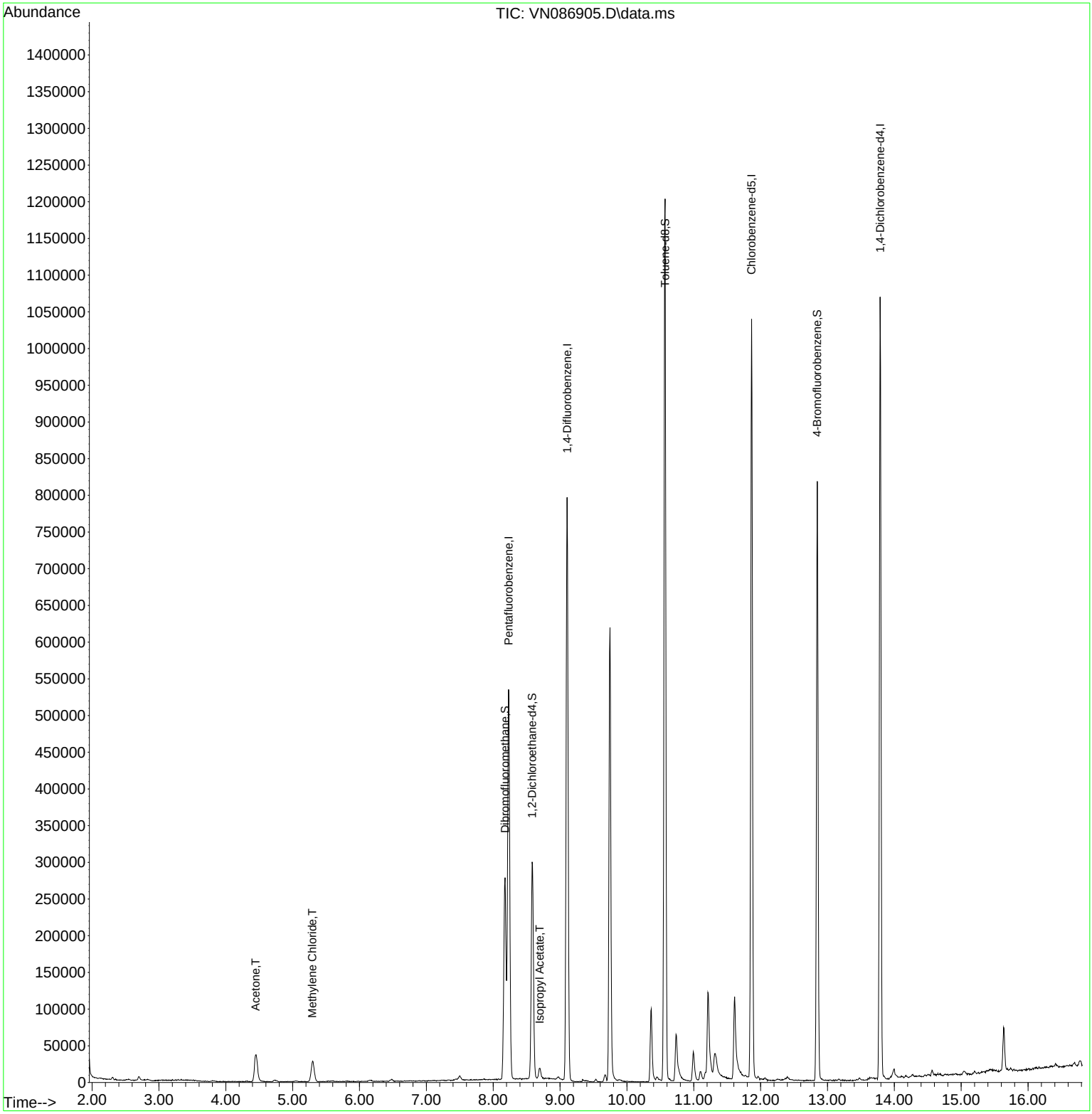
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.229	168	429044	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	754017	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	651717	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	315202	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.582	65	243428	42.376	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 84.760%			
35) Dibromofluoromethane	8.177	113	214624	48.031	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 96.060%			
50) Toluene-d8	10.570	98	897684	50.747	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 101.500%			
62) 4-Bromofluorobenzene	12.847	95	319909	48.676	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 97.360%			
Target Compounds						Qvalue
16) Acetone	4.447	43	75986	24.944	ug/l	97
20) Methylene Chloride	5.294	84	25077	4.397	ug/l	90
43) Isopropyl Acetate	8.694	43	17428	1.281	ug/l	97

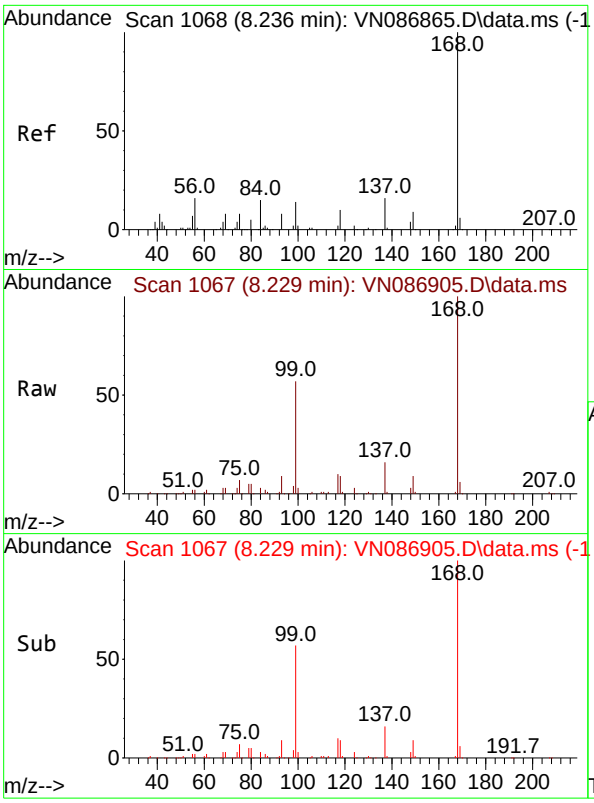
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060925\
Data File : VN086905.D
Acq On : 09 Jun 2025 15:08
Operator : JC\MD
Sample : Q2198-02
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
B-202-SB02

Quant Time: Jun 10 03:34:20 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration



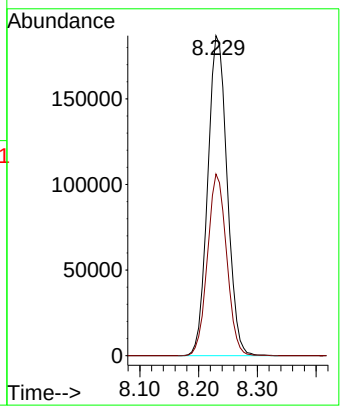


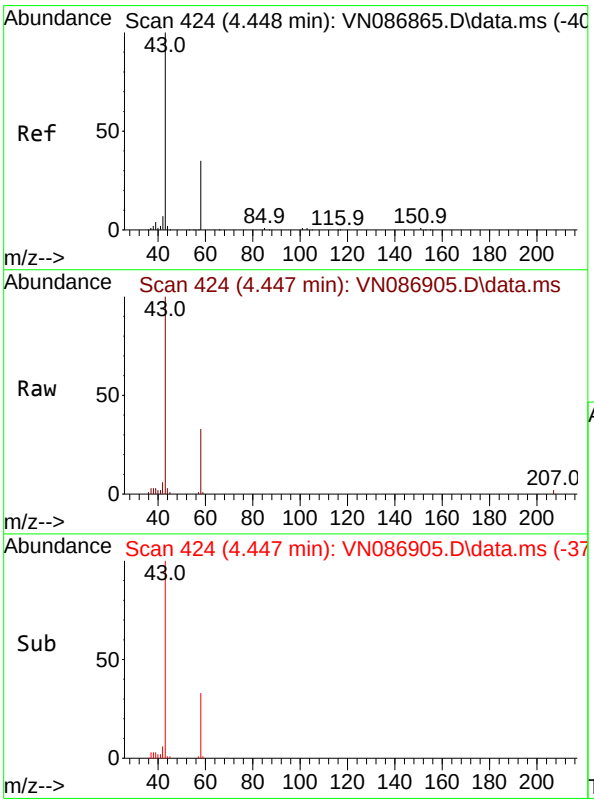
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.229 min Scan# 1
Delta R.T. -0.007 min
Lab File: VN086905.D
Acq: 09 Jun 2025 15:08

Instrument :
MSVOA_N
ClientSampleId :
B-202-SB02

Tgt Ion:168 Resp: 429044

Ion	Ratio	Lower	Upper
168	100		
99	56.7	49.1	73.7

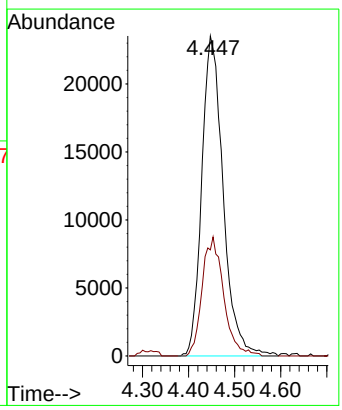


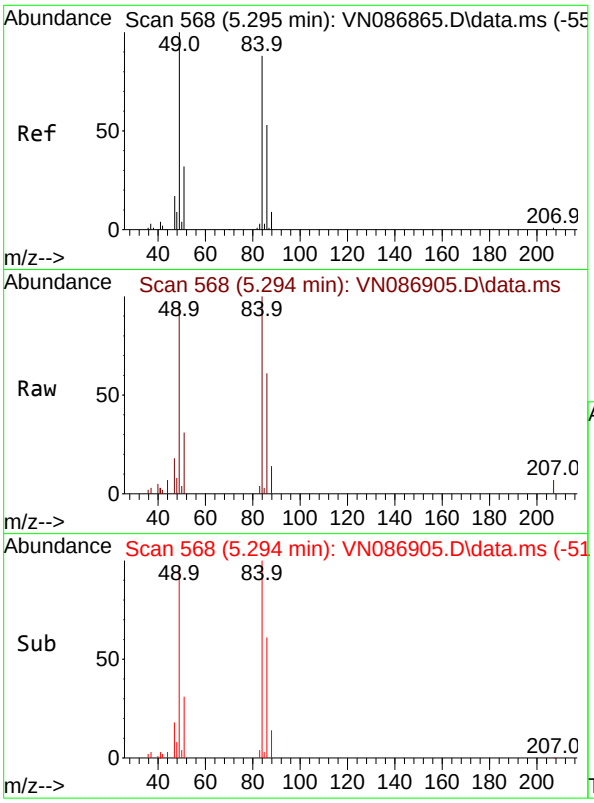


#16
Acetone
Concen: 24.944 ug/l
RT: 4.447 min Scan# 424
Delta R.T. -0.000 min
Lab File: VN086905.D
Acq: 09 Jun 2025 15:08

Tgt Ion: 43 Resp: 75986

Ion	Ratio	Lower	Upper
43	100		
58	33.1	28.0	42.0



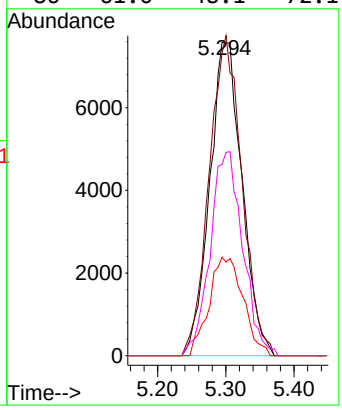


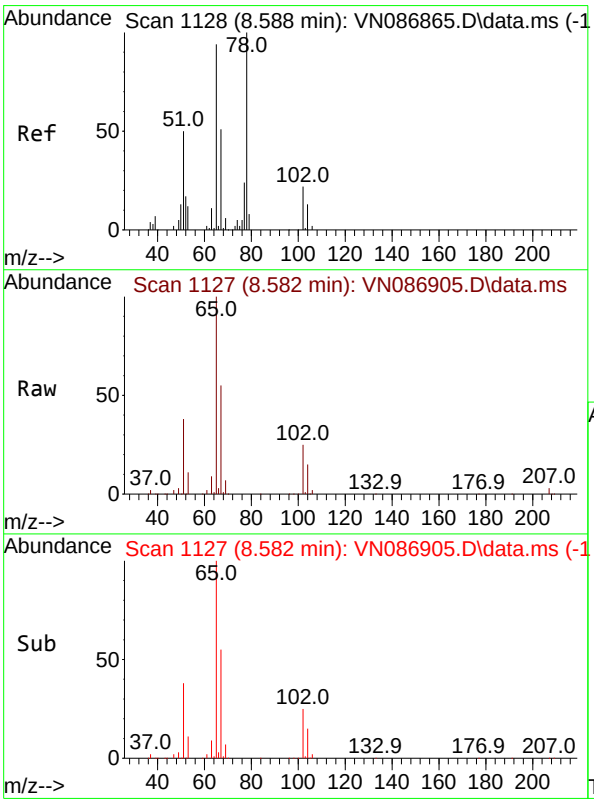
#20
Methylene Chloride
Concen: 4.397 ug/l
RT: 5.294 min Scan# 5
Delta R.T. -0.000 min
Lab File: VN086905.D
Acq: 09 Jun 2025 15:08

Instrument :
MSVOA_N
ClientSampleId :
B-202-SB02

Tgt Ion: 84 Resp: 25077

Ion	Ratio	Lower	Upper
84	100		
49	96.6	90.5	135.7
51	31.4	28.5	42.7
86	61.0	48.1	72.1

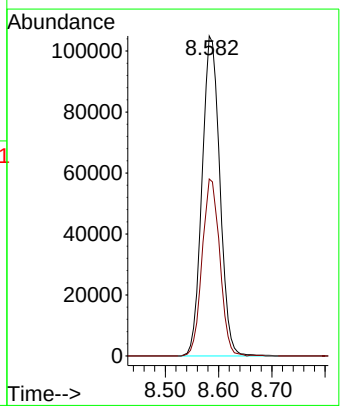


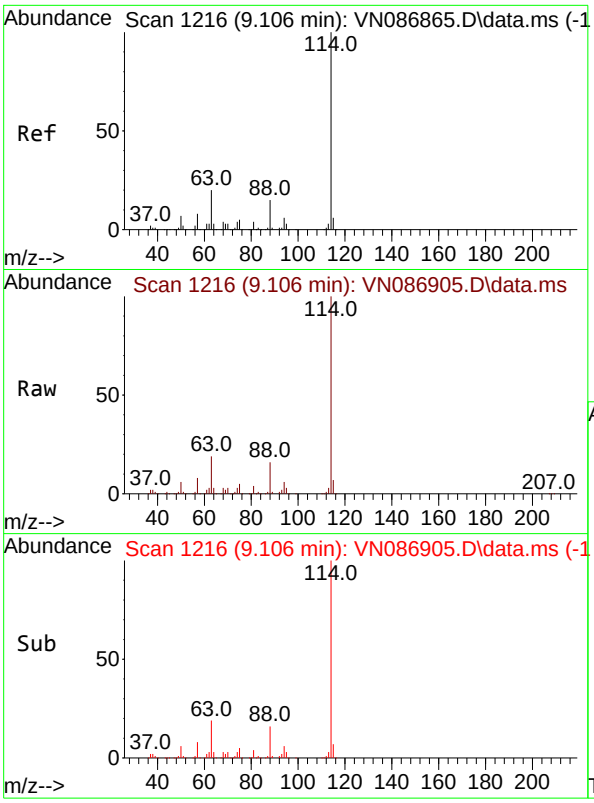


#33
1,2-Dichloroethane-d4
Concen: 42.376 ug/l
RT: 8.582 min Scan# 1127
Delta R.T. -0.006 min
Lab File: VN086905.D
Acq: 09 Jun 2025 15:08

Tgt Ion: 65 Resp: 243428

Ion	Ratio	Lower	Upper
65	100		
67	54.8	0.0	105.6



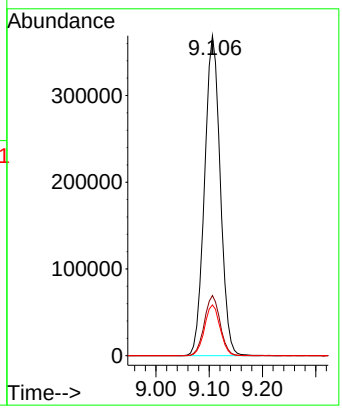


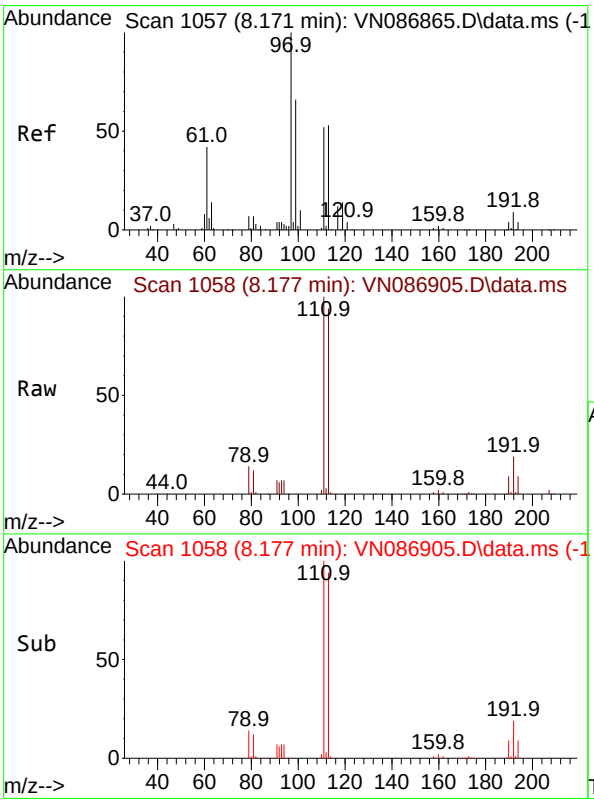
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.106 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086905.D
Acq: 09 Jun 2025 15:08

Instrument :
MSVOA_N
ClientSampleId :
B-202-SB02

Tgt Ion:114 Resp: 754017

Ion	Ratio	Lower	Upper
114	100		
63	18.8	0.0	39.6
88	15.9	0.0	30.2

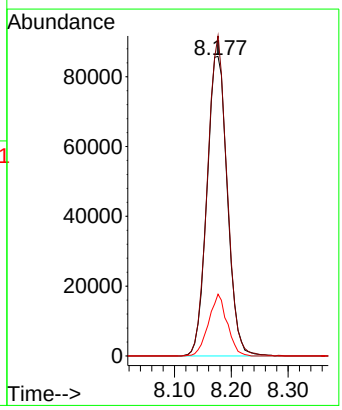


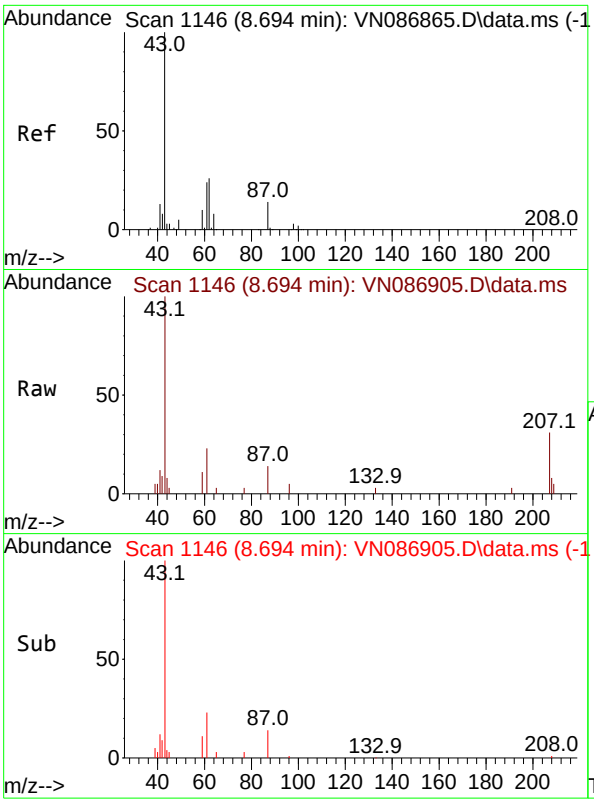


#35
Dibromofluoromethane
Concen: 48.031 ug/l
RT: 8.177 min Scan# 1058
Delta R.T. 0.006 min
Lab File: VN086905.D
Acq: 09 Jun 2025 15:08

Tgt Ion:113 Resp: 214624

Ion	Ratio	Lower	Upper
113	100		
111	102.0	84.2	126.2
192	18.8	14.2	21.4



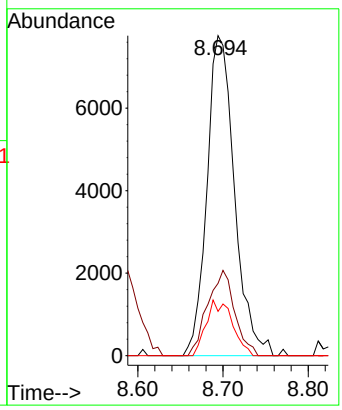


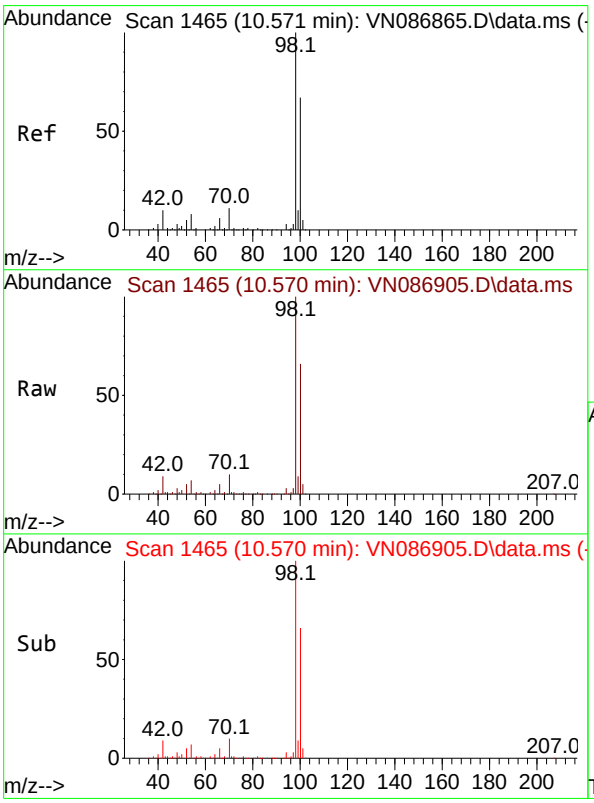
#43
Isopropyl Acetate
Concen: 1.281 ug/l
RT: 8.694 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN086905.D
Acq: 09 Jun 2025 15:08

Instrument :
MSVOA_N
ClientSampleId :
B-202-SB02

Tgt Ion: 43 Resp: 17428

Ion	Ratio	Lower	Upper
43	100		
61	26.2	22.1	33.1
87	16.4	11.8	17.6

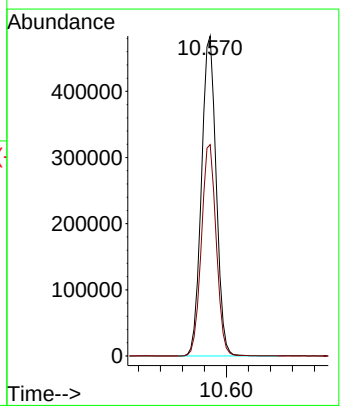


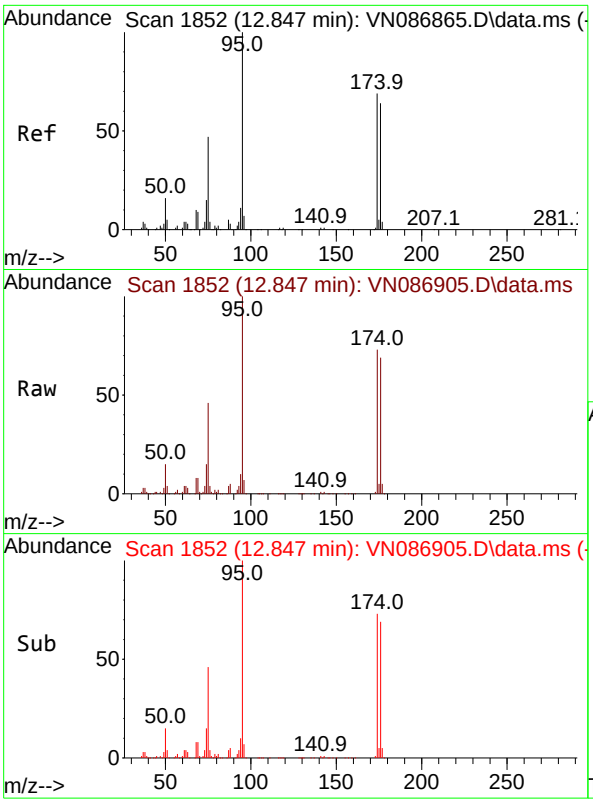


#50
Toluene-d8
Concen: 50.747 ug/l
RT: 10.570 min Scan# 1465
Delta R.T. -0.000 min
Lab File: VN086905.D
Acq: 09 Jun 2025 15:08

Tgt Ion: 98 Resp: 897684

Ion	Ratio	Lower	Upper
98	100		
100	66.6	53.4	80.0



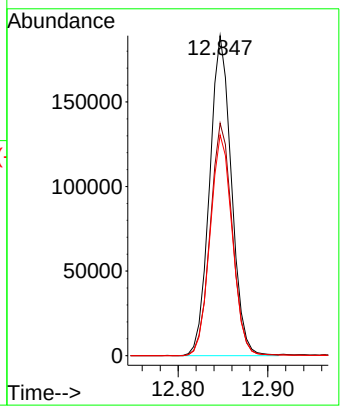


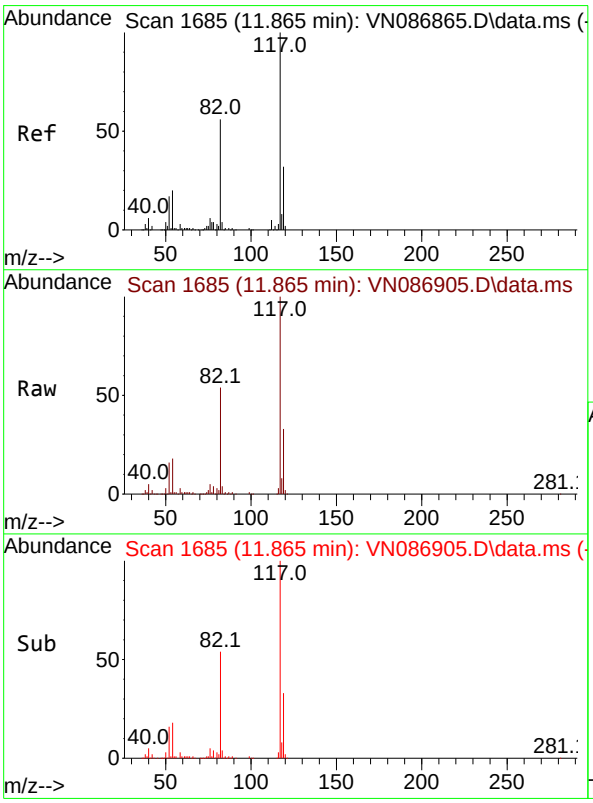
#62
4-Bromofluorobenzene
Concen: 48.676 ug/l
RT: 12.847 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086905.D
Acq: 09 Jun 2025 15:08

Instrument :
MSVOA_N
ClientSampleId :
B-202-SB02

Tgt Ion: 95 Resp: 319909

Ion	Ratio	Lower	Upper
95	100		
174	73.4	0.0	141.8
176	70.3	0.0	132.6

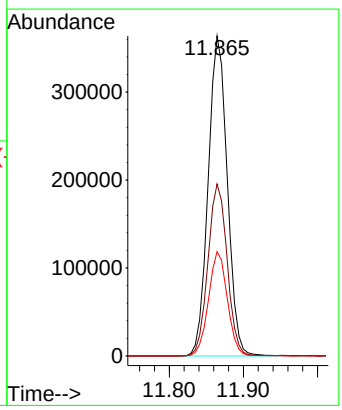


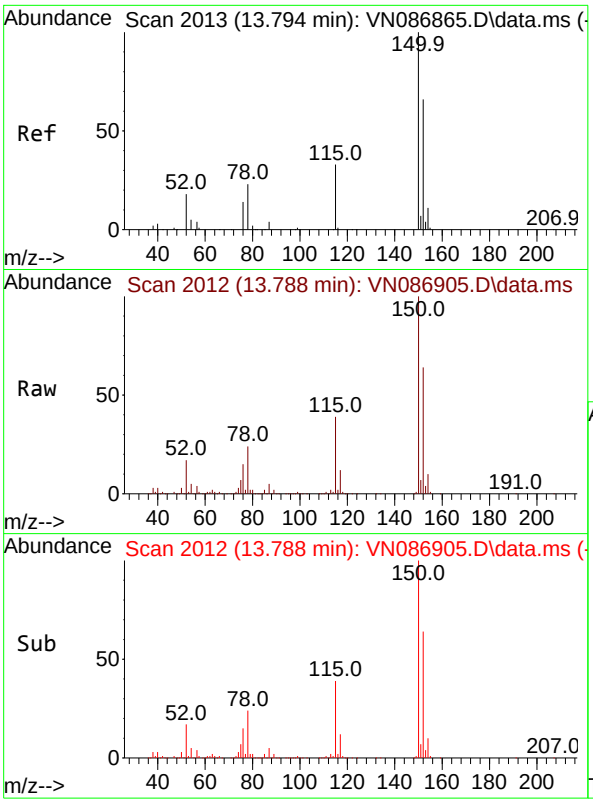


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VN086905.D
Acq: 09 Jun 2025 15:08

Tgt Ion:117 Resp: 651717

Ion	Ratio	Lower	Upper
117	100		
82	53.7	44.6	67.0
119	32.6	25.5	38.3



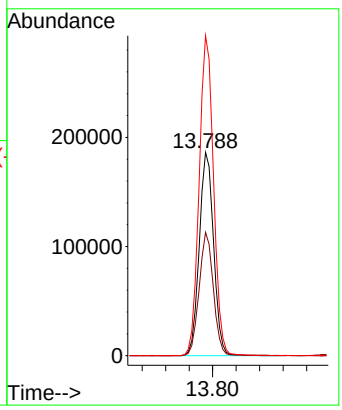


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2
Delta R.T. -0.006 min
Lab File: VN086905.D
Acq: 09 Jun 2025 15:08

Instrument :
MSVOA_N
ClientSampleId :
B-202-SB02

Tgt Ion:152 Resp: 315202

Ion	Ratio	Lower	Upper
152	100		
115	60.2	30.1	90.5
150	158.0	0.0	345.0



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060925\
Data File : VN086906.D
Acq On : 09 Jun 2025 15:30
Operator : JC\MD
Sample : Q2198-04
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
B-207-SB02

Quant Time: Jun 10 03:34:43 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

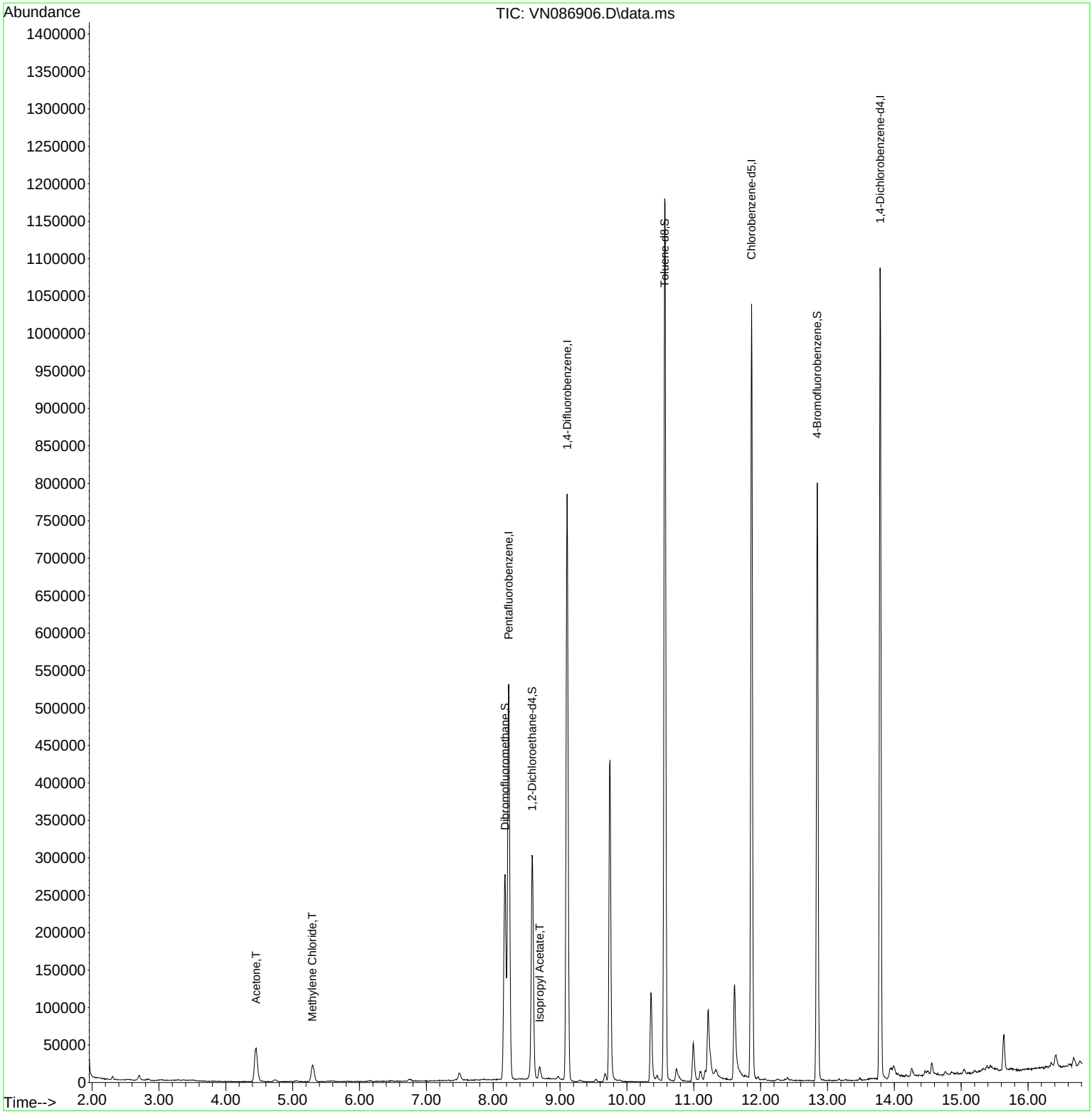
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.230	168	419597	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	749093	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	650156	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	318394	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.582	65	244735	43.563	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 87.120%			
35) Dibromofluoromethane	8.177	113	214980	48.427	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 96.860%			
50) Toluene-d8	10.565	98	894484	50.898	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 101.800%			
62) 4-Bromofluorobenzene	12.847	95	318978	48.854	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 97.700%			
Target Compounds						Qvalue
16) Acetone	4.453	43	90615	30.416	ug/l	100
20) Methylene Chloride	5.294	84	20133	3.610	ug/l #	89
43) Isopropyl Acetate	8.694	43	18250	1.350	ug/l	94

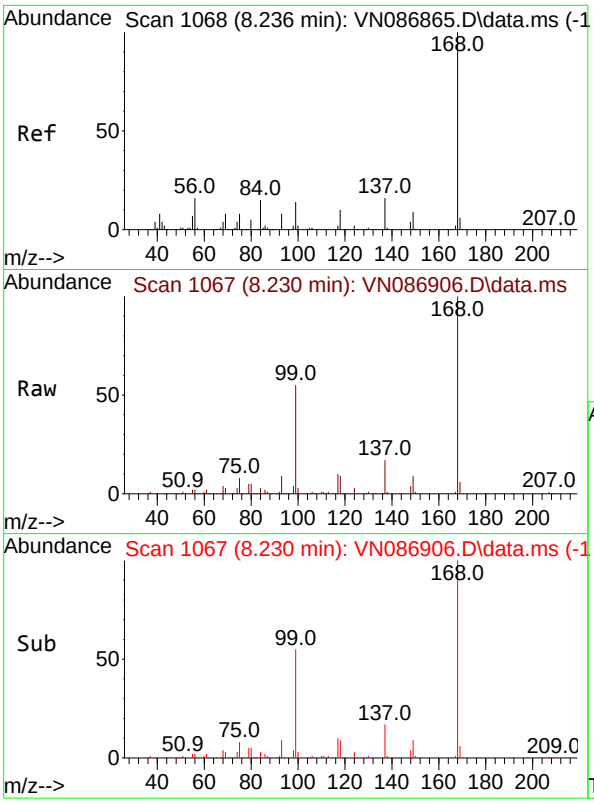
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060925\
Data File : VN086906.D
Acq On : 09 Jun 2025 15:30
Operator : JC\MD
Sample : Q2198-04
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
B-207-SB02

Quant Time: Jun 10 03:34:43 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration



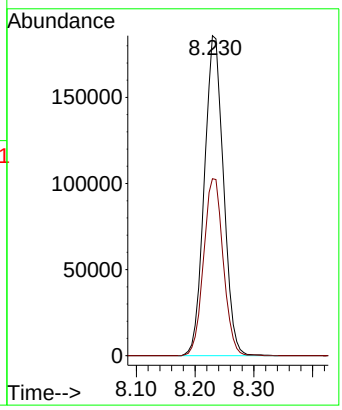


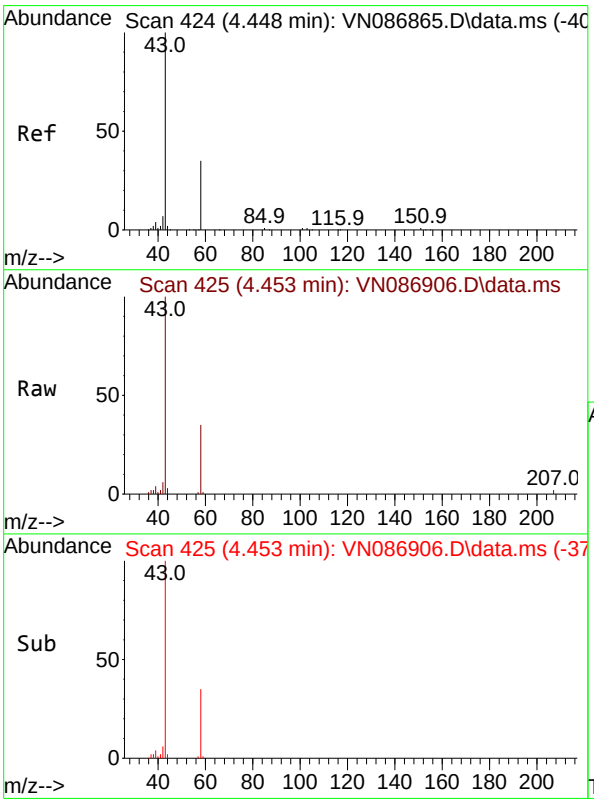
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN086906.D
Acq: 09 Jun 2025 15:30

Instrument :
MSVOA_N
ClientSampleId :
B-207-SB02

Tgt Ion:168 Resp: 419597

Ion	Ratio	Lower	Upper
168	100		
99	55.3	49.1	73.7

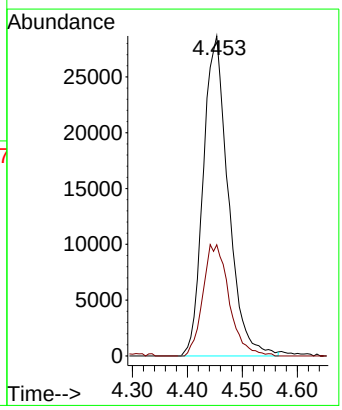


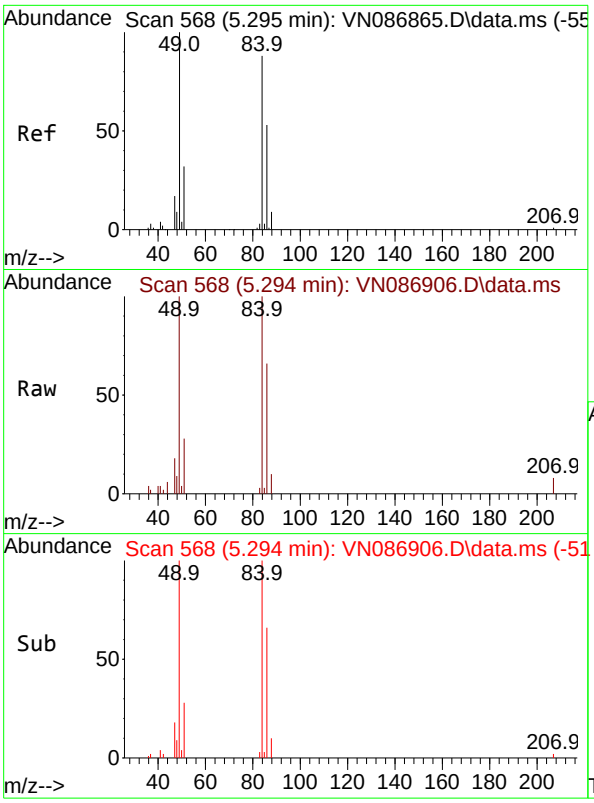


#16
Acetone
Concen: 30.416 ug/l
RT: 4.453 min Scan# 425
Delta R.T. 0.006 min
Lab File: VN086906.D
Acq: 09 Jun 2025 15:30

Tgt Ion: 43 Resp: 90615

Ion	Ratio	Lower	Upper
43	100		
58	34.8	28.0	42.0



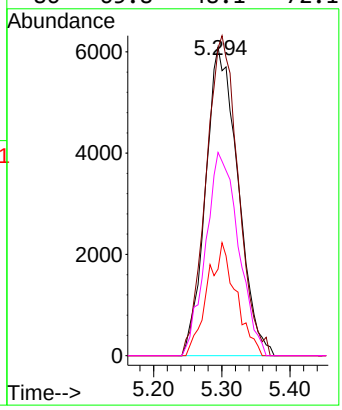


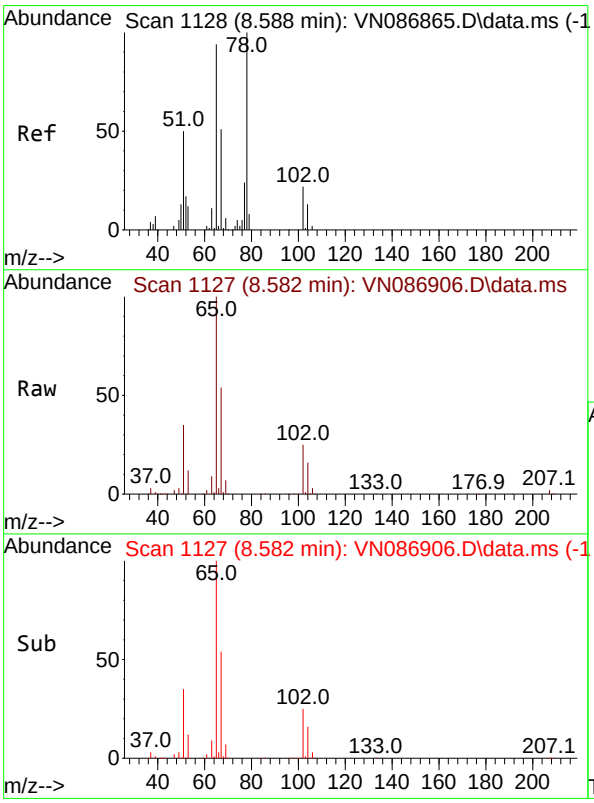
#20
Methylene Chloride
Concen: 3.610 ug/l
RT: 5.294 min Scan# 5
Delta R.T. -0.000 min
Lab File: VN086906.D
Acq: 09 Jun 2025 15:30

Instrument :
MSVOA_N
ClientSampleId :
B-207-SB02

Tgt Ion: 84 Resp: 20133

Ion	Ratio	Lower	Upper
84	100		
49	99.6	90.5	135.7
51	28.1	28.5	42.7#
86	65.8	48.1	72.1

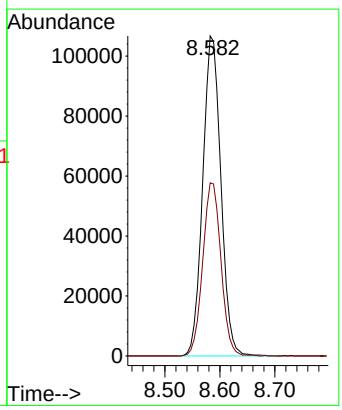


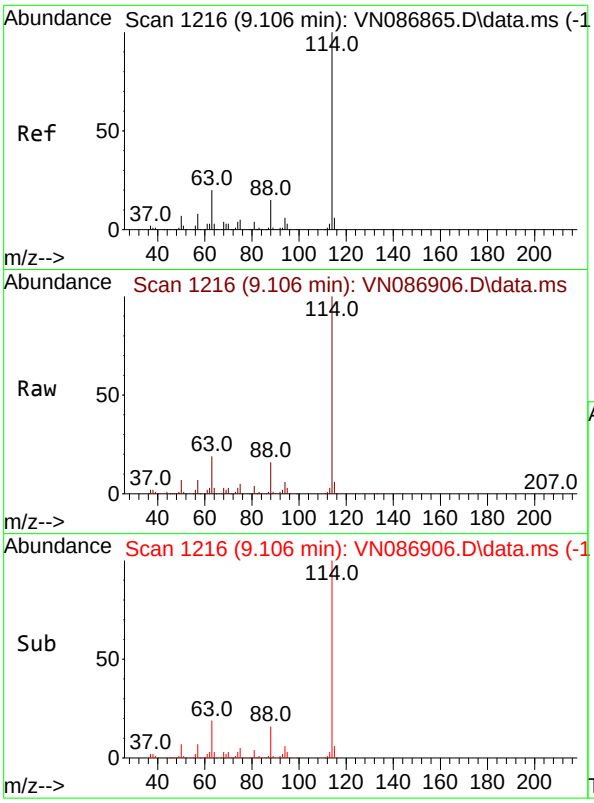


#33
1,2-Dichloroethane-d4
Concen: 43.563 ug/l
RT: 8.582 min Scan# 1127
Delta R.T. -0.006 min
Lab File: VN086906.D
Acq: 09 Jun 2025 15:30

Tgt Ion: 65 Resp: 244735

Ion	Ratio	Lower	Upper
65	100		
67	54.4	0.0	105.6



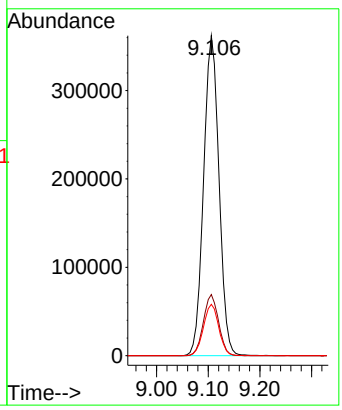


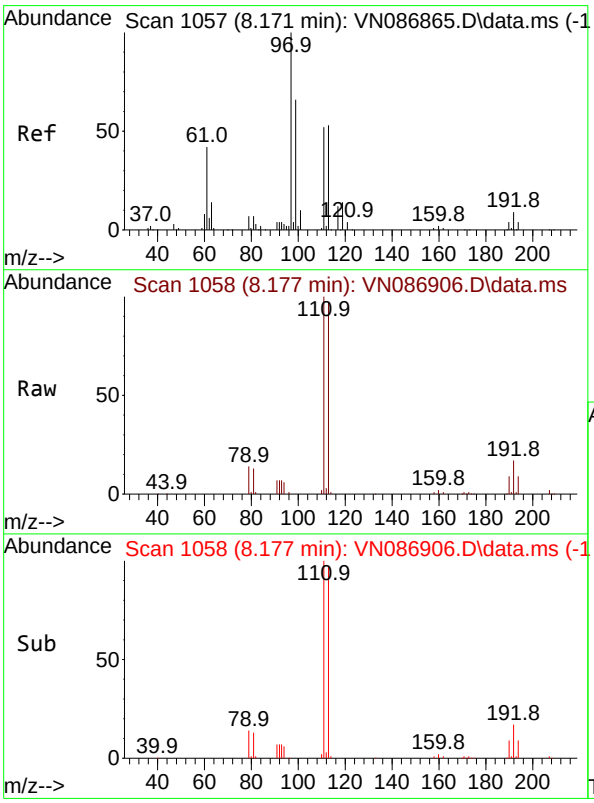
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.106 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086906.D
Acq: 09 Jun 2025 15:30

Instrument :
MSVOA_N
ClientSampleId :
B-207-SB02

Tgt Ion:114 Resp: 749093

Ion	Ratio	Lower	Upper
114	100		
63	19.1	0.0	39.6
88	16.0	0.0	30.2

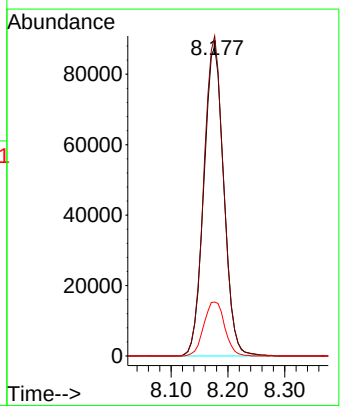


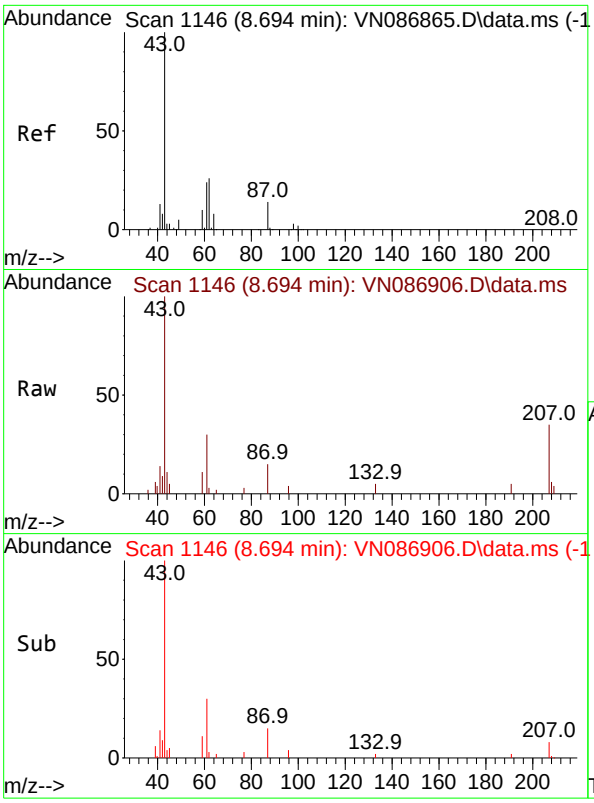


#35
Dibromofluoromethane
Concen: 48.427 ug/l
RT: 8.177 min Scan# 1058
Delta R.T. 0.006 min
Lab File: VN086906.D
Acq: 09 Jun 2025 15:30

Tgt Ion:113 Resp: 214980

Ion	Ratio	Lower	Upper
113	100		
111	101.7	84.2	126.2
192	18.2	14.2	21.4



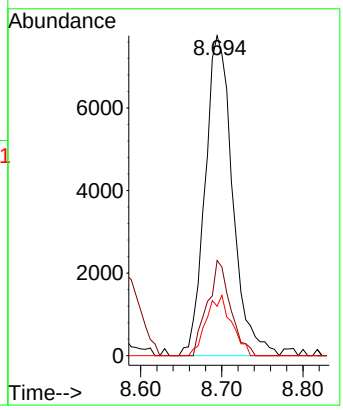


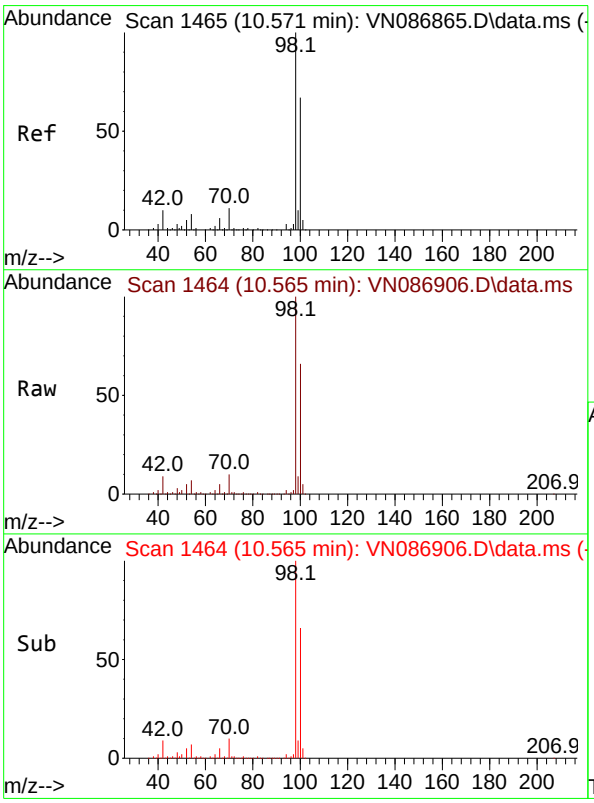
#43
Isopropyl Acetate
Concen: 1.350 ug/l
RT: 8.694 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN086906.D
Acq: 09 Jun 2025 15:30

Instrument :
MSVOA_N
ClientSampleId :
B-207-SB02

Tgt Ion: 43 Resp: 18250

Ion	Ratio	Lower	Upper
43	100		
61	24.9	22.1	33.1
87	17.2	11.8	17.6

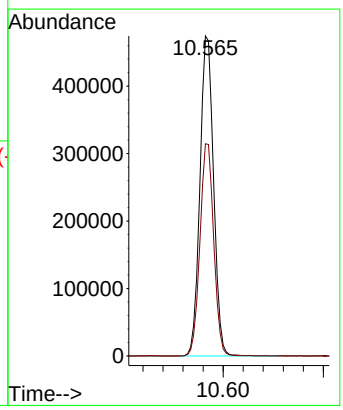




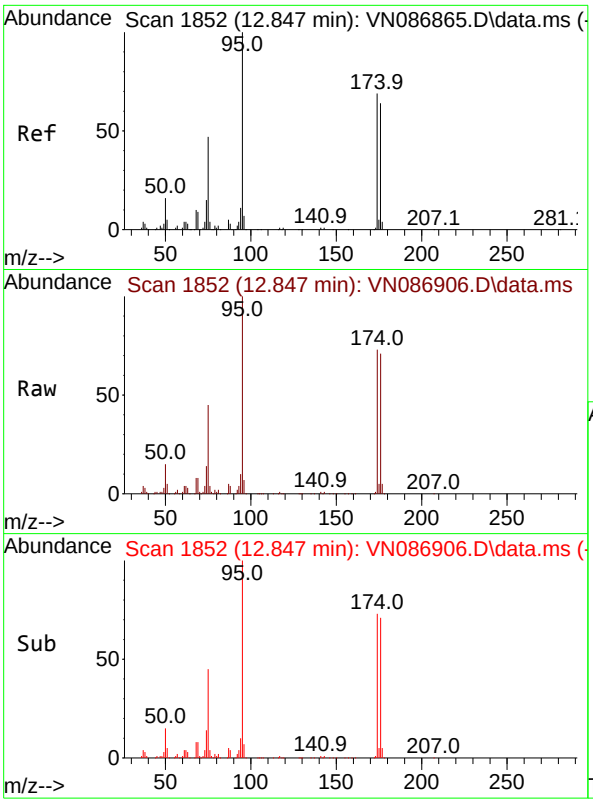
#50
Toluene-d8
Concen: 50.898 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.006 min
Lab File: VN086906.D
Acq: 09 Jun 2025 15:30

Tgt Ion: 98 Resp: 894484

Ion	Ratio	Lower	Upper
98	100		
100	67.0	53.4	80.0



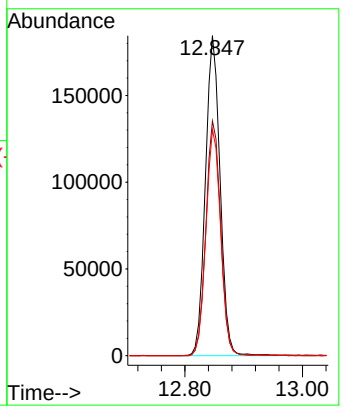
Instrument :
MSVOA_N
ClientSampleId :
B-207-SB02

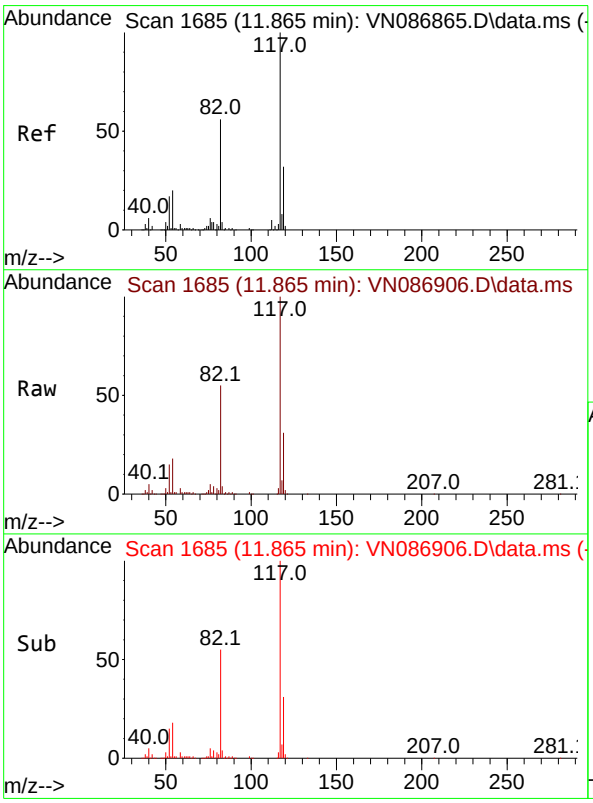


#62
4-Bromofluorobenzene
Concen: 48.854 ug/l
RT: 12.847 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086906.D
Acq: 09 Jun 2025 15:30

Tgt Ion: 95 Resp: 318978

Ion	Ratio	Lower	Upper
95	100		
174	73.8	0.0	141.8
176	71.0	0.0	132.6

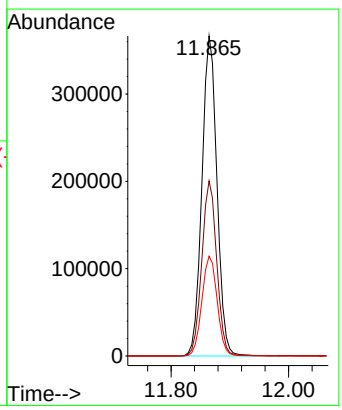


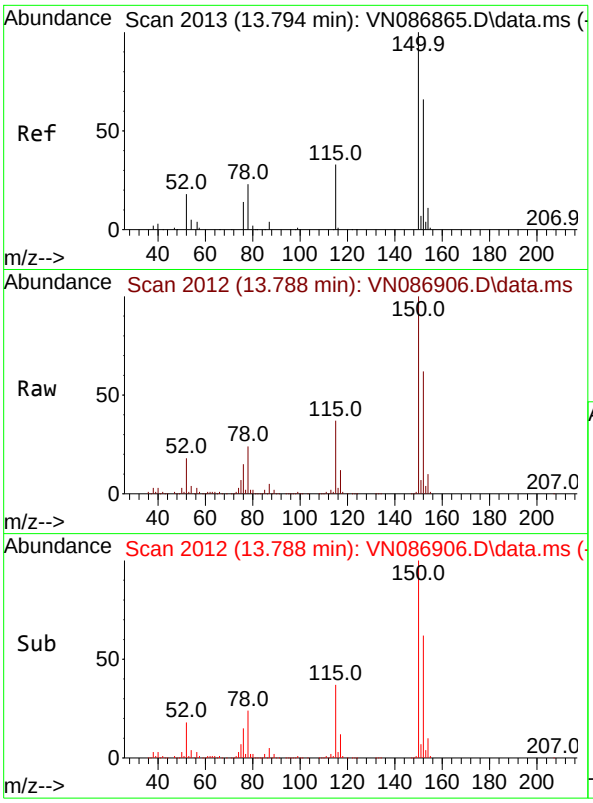


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VN086906.D
Acq: 09 Jun 2025 15:30

Tgt Ion:117 Resp: 650156

Ion	Ratio	Lower	Upper
117	100		
82	54.7	44.6	67.0
119	31.2	25.5	38.3



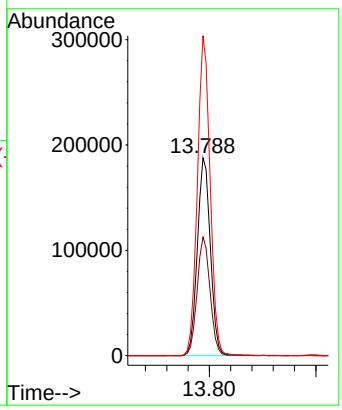


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2
Delta R.T. -0.006 min
Lab File: VN086906.D
Acq: 09 Jun 2025 15:30

Instrument :
MSVOA_N
ClientSampleId :
B-207-SB02

Tgt Ion:152 Resp: 318394

Ion	Ratio	Lower	Upper
152	100		
115	59.8	30.1	90.5
150	158.4	0.0	345.0



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060925\
Data File : VN086890.D
Acq On : 09 Jun 2025 09:33
Operator : JC\MD
Sample : VN0609WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0609WBL01

Quant Time: Jun 10 03:28:34 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.229	168	390256	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	684606	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	591728	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	288224	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	223703	42.813	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 85.620%			
35) Dibromofluoromethane	8.177	113	194994	48.062	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 96.120%			
50) Toluene-d8	10.565	98	814952	50.741	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 101.480%			
62) 4-Bromofluorobenzene	12.847	95	291875	48.913	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 97.820%			

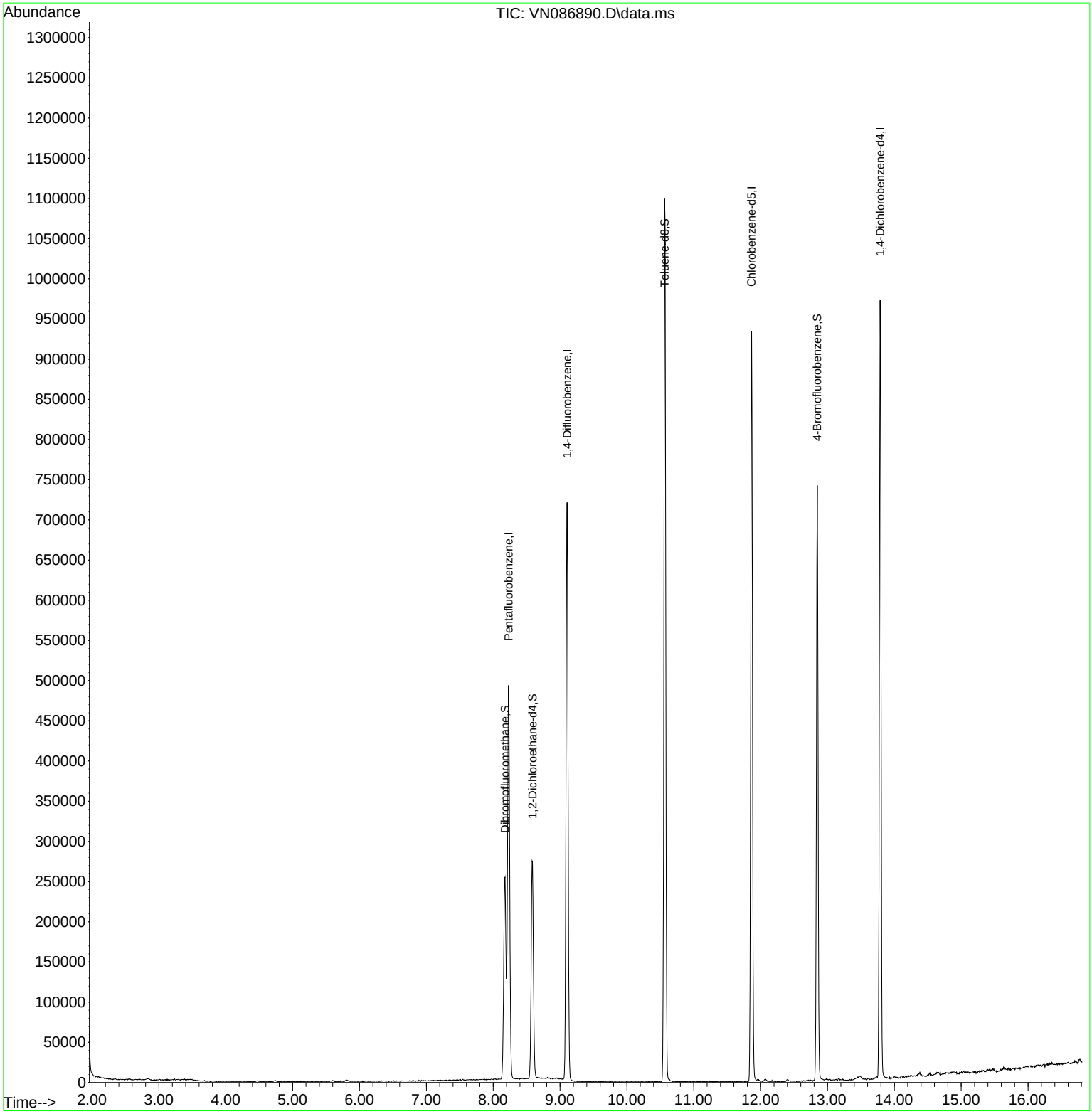
Target Compounds Qvalue

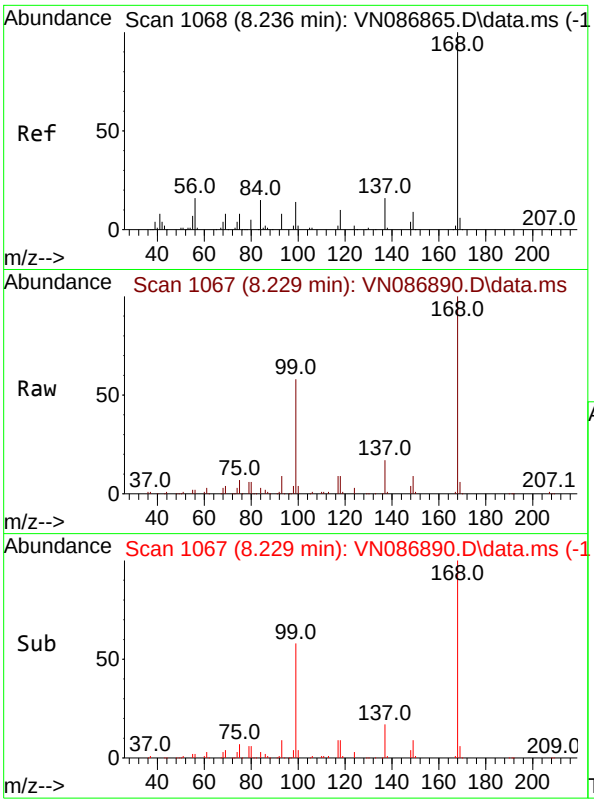
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060925\
Data File : VN086890.D
Acq On : 09 Jun 2025 09:33
Operator : JC\MD
Sample : VN0609WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0609WBL01

Quant Time: Jun 10 03:28:34 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration



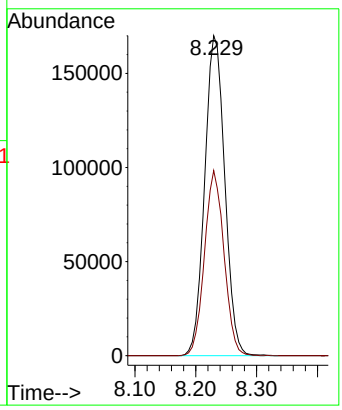


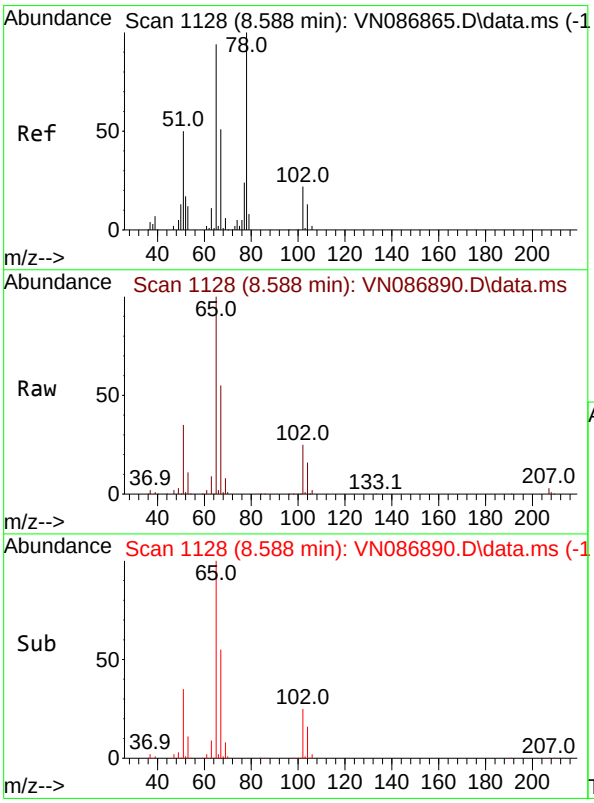
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.229 min Scan# 1
Delta R.T. -0.007 min
Lab File: VN086890.D
Acq: 09 Jun 2025 09:33

Instrument :
MSVOA_N
ClientSampleId :
VN0609WBL01

Tgt Ion:168 Resp: 390256

Ion	Ratio	Lower	Upper
168	100		
99	57.8	49.1	73.7

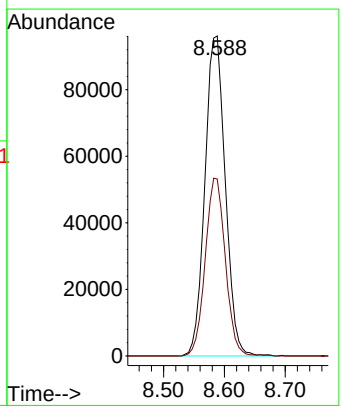


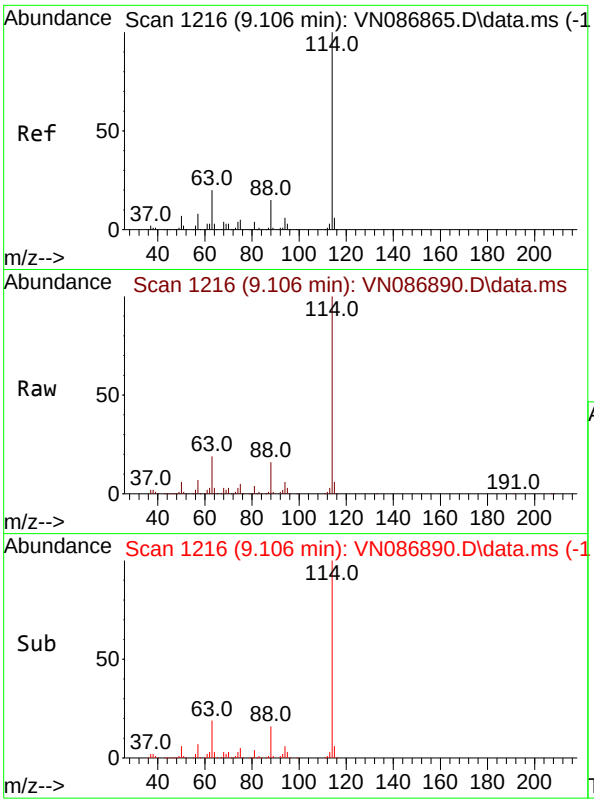


#33
1,2-Dichloroethane-d4
Concen: 42.813 ug/l
RT: 8.588 min Scan# 1128
Delta R.T. -0.000 min
Lab File: VN086890.D
Acq: 09 Jun 2025 09:33

Tgt Ion: 65 Resp: 223703

Ion	Ratio	Lower	Upper
65	100		
67	54.9	0.0	105.6



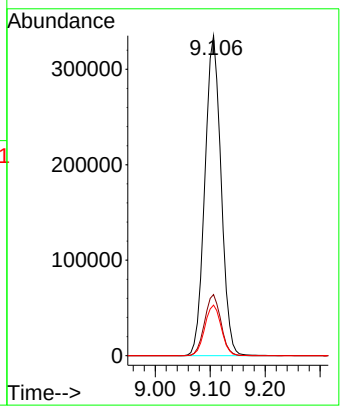


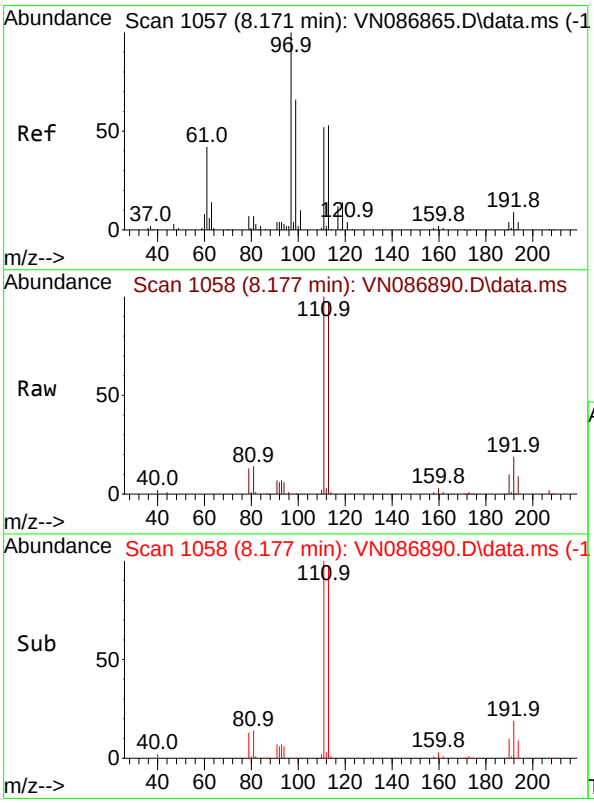
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.106 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086890.D
Acq: 09 Jun 2025 09:33

Instrument :
MSVOA_N
ClientSampleId :
VN0609WBL01

Tgt Ion:114 Resp: 684606

Ion	Ratio	Lower	Upper
114	100		
63	19.1	0.0	39.6
88	15.8	0.0	30.2

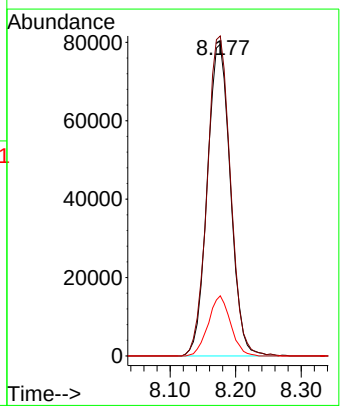


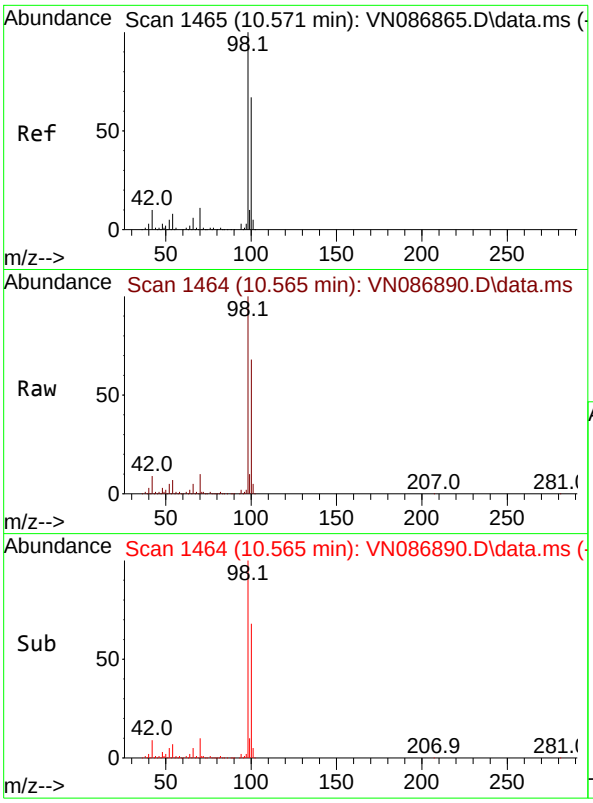


#35
Dibromofluoromethane
Concen: 48.062 ug/l
RT: 8.177 min Scan# 1058
Delta R.T. 0.006 min
Lab File: VN086890.D
Acq: 09 Jun 2025 09:33

Tgt Ion:113 Resp: 194994

Ion	Ratio	Lower	Upper
113	100		
111	103.2	84.2	126.2
192	18.5	14.2	21.4



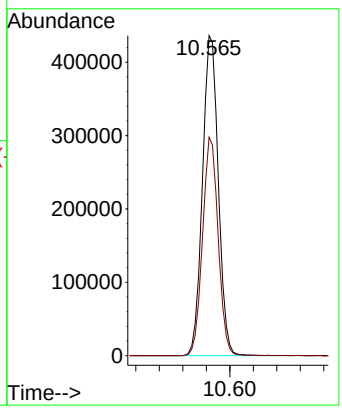


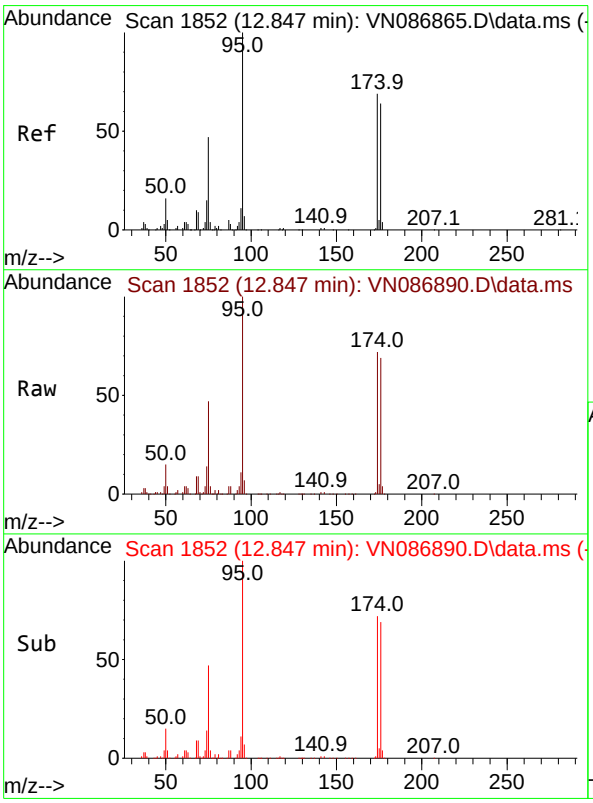
#50
Toluene-d8
Concen: 50.741 ug/l
RT: 10.565 min Scan# 14
Delta R.T. -0.006 min
Lab File: VN086890.D
Acq: 09 Jun 2025 09:33

Instrument :
MSVOA_N
ClientSampleId :
VN0609WBL01

Tgt Ion: 98 Resp: 814952

Ion	Ratio	Lower	Upper
98	100		
100	67.2	53.4	80.0

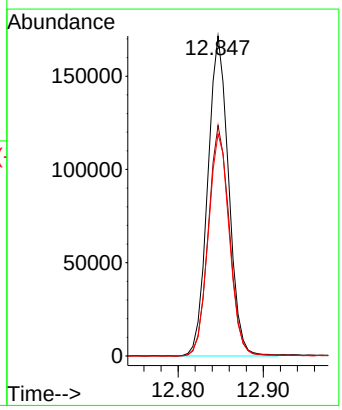


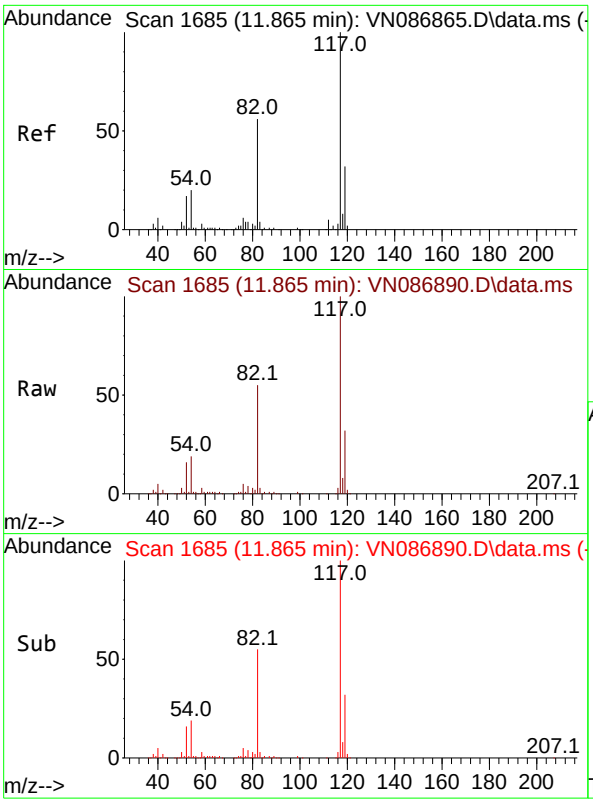


#62
4-Bromofluorobenzene
Concen: 48.913 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086890.D
Acq: 09 Jun 2025 09:33

Tgt Ion: 95 Resp: 291875

Ion	Ratio	Lower	Upper
95	100		
174	72.5	0.0	141.8
176	70.2	0.0	132.6



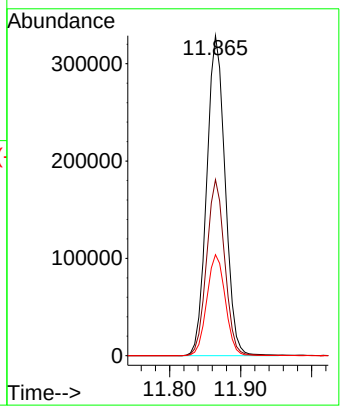


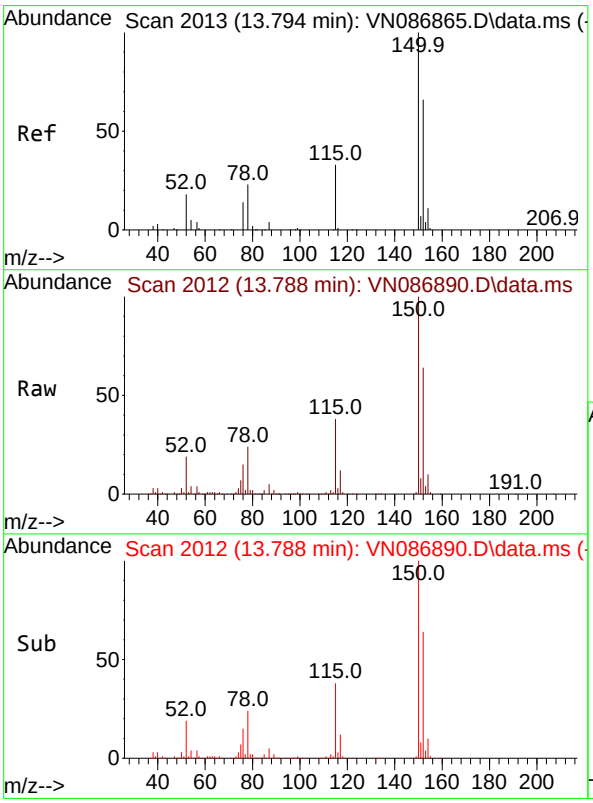
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086890.D
Acq: 09 Jun 2025 09:33

Instrument :
MSVOA_N
ClientSampleId :
VN0609WBL01

Tgt Ion:117 Resp: 591728

Ion	Ratio	Lower	Upper
117	100		
82	55.0	44.6	67.0
119	31.6	25.5	38.3

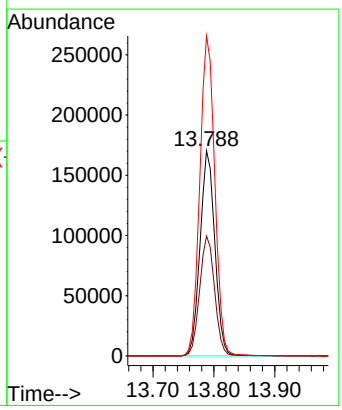




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. -0.006 min
Lab File: VN086890.D
Acq: 09 Jun 2025 09:33

Tgt Ion:152 Resp: 288224

Ion	Ratio	Lower	Upper
152	100		
115	59.1	30.1	90.5
150	158.0	0.0	345.0



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060925\
Data File : VN086893.D
Acq On : 09 Jun 2025 10:50
Operator : JC\MD
Sample : VN0609WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 09 13:27:30 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN0609WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 06/10/2025
Supervised By :Mahesh Dadoda 06/10/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.230	168	266986	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	481053	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	422488	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	202169	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.583	65	202389	56.618	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 113.240%			
35) Dibromofluoromethane	8.177	113	166951	58.562	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 117.120%			
50) Toluene-d8	10.565	98	622867	55.191	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 110.380%			
62) 4-Bromofluorobenzene	12.847	95	233615	55.716	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 111.440%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.154	85	51523	19.355	ug/l	100
3) Chloromethane	2.395	50	57302	16.670	ug/l	98
4) Vinyl Chloride	2.554	62	64913	18.306	ug/l	96
5) Bromomethane	2.995	94	41012	20.668	ug/l	100
6) Chloroethane	3.159	64	44644	19.491	ug/l	99
7) Trichlorofluoromethane	3.530	101	89135	19.239	ug/l	99
8) Diethyl Ether	3.983	74	46365	22.969	ug/l	92
9) 1,1,2-Trichlorotrifluo...	4.400	101	55767	19.159	ug/l	96
10) Methyl Iodide	4.612	142	67793	17.967	ug/l	95
11) Tert butyl alcohol	5.536	59	102670	105.851	ug/l	98
12) 1,1-Dichloroethene	4.365	96	59847	20.139	ug/l	93
13) Acrolein	4.200	56	29042	94.593	ug/l	99
14) Allyl chloride	5.048	41	88856	18.030	ug/l	97
15) Acrylonitrile	5.736	53	249150	109.898	ug/l	99
16) Acetone	4.448	43	186059	98.150	ug/l	99
17) Carbon Disulfide	4.736	76	147605	17.957	ug/l	99
18) Methyl Acetate	5.042	43	119428	21.619	ug/l	96
19) Methyl tert-butyl Ether	5.818	73	246789	22.937	ug/l	99
20) Methylene Chloride	5.295	84	72770	20.504	ug/l	95
21) trans-1,2-Dichloroethene	5.806	96	64982	19.655	ug/l	93
22) Diisopropyl ether	6.683	45	213617	20.563	ug/l	97
23) Vinyl Acetate	6.618	43	935448	106.579	ug/l	97
24) 1,1-Dichloroethane	6.583	63	118296	19.787	ug/l	98
25) 2-Butanone	7.489	43	315151	102.277	ug/l	98
26) 2,2-Dichloropropane	7.500	77	97539	20.974	ug/l	96
27) cis-1,2-Dichloroethene	7.500	96	83955	21.233	ug/l	96
28) Bromochloromethane	7.824	49	63228	21.510	ug/l	91
29) Tetrahydrofuran	7.847	42	210156	104.697	ug/l	94
30) Chloroform	7.977	83	119528	20.020	ug/l	100
31) Cyclohexane	8.265	56	99106	17.094	ug/l	89
32) 1,1,1-Trichloroethane	8.177	97	98672	19.432	ug/l	93
36) 1,1-Dichloropropene	8.377	75	82550	19.433	ug/l	99
37) Ethyl Acetate	7.571	43	118150	21.848	ug/l	98
38) Carbon Tetrachloride	8.365	117	80592	19.324	ug/l	96
39) Methylcyclohexane	9.606	83	99387	17.077	ug/l	96
40) Benzene	8.612	78	281242	20.246	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060925\
Data File : VN086893.D
Acq On : 09 Jun 2025 10:50
Operator : JC\MD
Sample : VN0609WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 09 13:27:30 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN0609WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 06/10/2025
Supervised By :Mahesh Dadoda 06/10/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.783	41	63106	20.779	ug/l		93
42) 1,2-Dichloroethane	8.677	62	89967	21.353	ug/l		98
43) Isopropyl Acetate	8.694	43	184375	21.243	ug/l		96
44) Trichloroethene	9.353	130	68709	20.860	ug/l		94
45) 1,2-Dichloropropane	9.624	63	70359	20.819	ug/l		97
46) Dibromomethane	9.712	93	50518	22.505	ug/l		97
47) Bromodichloromethane	9.888	83	97765	21.168	ug/l		94
48) Methyl methacrylate	9.682	41	82557	20.666	ug/l		94
49) 1,4-Dioxane	9.700	88	34752	478.183	ug/l	#	96
51) 4-Methyl-2-Pentanone	10.447	43	573654	109.788	ug/l		97
52) Toluene	10.629	92	186254	21.940	ug/l		100
53) t-1,3-Dichloropropene	10.841	75	116115	22.484	ug/l		95
54) cis-1,3-Dichloropropene	10.312	75	121569	22.000	ug/l		96
55) 1,1,2-Trichloroethane	11.018	97	74365	22.766	ug/l		95
56) Ethyl methacrylate	10.882	69	125687	24.158	ug/l		93
57) 1,3-Dichloropropane	11.165	76	125890	22.217	ug/l		100
58) 2-Chloroethyl Vinyl ether	10.159	63	349023	112.472	ug/l		97
59) 2-Hexanone	11.200	43	368271	109.420	ug/l		91
60) Dibromochloromethane	11.359	129	77533	22.781	ug/l		100
61) 1,2-Dibromoethane	11.471	107	76919	22.974	ug/l		98
64) Tetrachloroethene	11.106	164	52176	19.514	ug/l		97
65) Chlorobenzene	11.888	112	195119	20.940	ug/l		98
66) 1,1,1,2-Tetrachloroethane	11.959	131	65205	21.769	ug/l		98
67) Ethyl Benzene	11.965	91	317590	19.787	ug/l		99
68) m/p-Xylenes	12.071	106	251284	40.899	ug/l		97
69) o-Xylene	12.394	106	122737	20.858	ug/l		99
70) Styrene	12.412	104	213765	21.229	ug/l		99
71) Bromoform	12.582	173	52554	23.680	ug/l	#	99
73) Isopropylbenzene	12.694	105	293400	19.921	ug/l		99
74) N-amyl acetate	12.523	43	117821	22.893	ug/l		96
75) 1,1,2,2-Tetrachloroethane	12.935	83	116789	23.407	ug/l		100
76) 1,2,3-Trichloropropane	12.994	75	82055m	17.075	ug/l		
77) Bromobenzene	12.976	156	76143	22.543	ug/l		100
78) n-propylbenzene	13.035	91	346865	19.379	ug/l		99
79) 2-Chlorotoluene	13.123	91	216311	20.152	ug/l		96
80) 1,3,5-Trimethylbenzene	13.171	105	244158	20.079	ug/l		100
81) trans-1,4-Dichloro-2-b...	12.735	75	51065	24.461	ug/l		90
82) 4-Chlorotoluene	13.218	91	219687	20.227	ug/l		98
83) tert-Butylbenzene	13.435	119	221806	19.927	ug/l		97
84) 1,2,4-Trimethylbenzene	13.482	105	248941	20.416	ug/l		100
85) sec-Butylbenzene	13.612	105	303760	18.792	ug/l		99
86) p-Isopropyltoluene	13.729	119	259754	19.440	ug/l		98
87) 1,3-Dichlorobenzene	13.729	146	140762	21.181	ug/l		99
88) 1,4-Dichlorobenzene	13.812	146	143075	21.117	ug/l		100
89) n-Butylbenzene	14.053	91	235600	18.204	ug/l		99
90) Hexachloroethane	14.329	117	42184	18.625	ug/l		99
91) 1,2-Dichlorobenzene	14.106	146	136855	21.435	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	14.717	75	26513	22.219	ug/l		90
93) 1,2,4-Trichlorobenzene	15.388	180	79356	19.464	ug/l		99
94) Hexachlorobutadiene	15.494	225	27017	17.787	ug/l		99
95) Naphthalene	15.635	128	327594	21.587	ug/l		100
96) 1,2,3-Trichlorobenzene	15.835	180	77458	19.122	ug/l		100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060925\
Data File : VN086893.D
Acq On : 09 Jun 2025 10:50
Operator : JC\MD
Sample : VN0609WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 09 13:27:30 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN0609WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 06/10/2025
Supervised By :Mahesh Dadoda 06/10/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

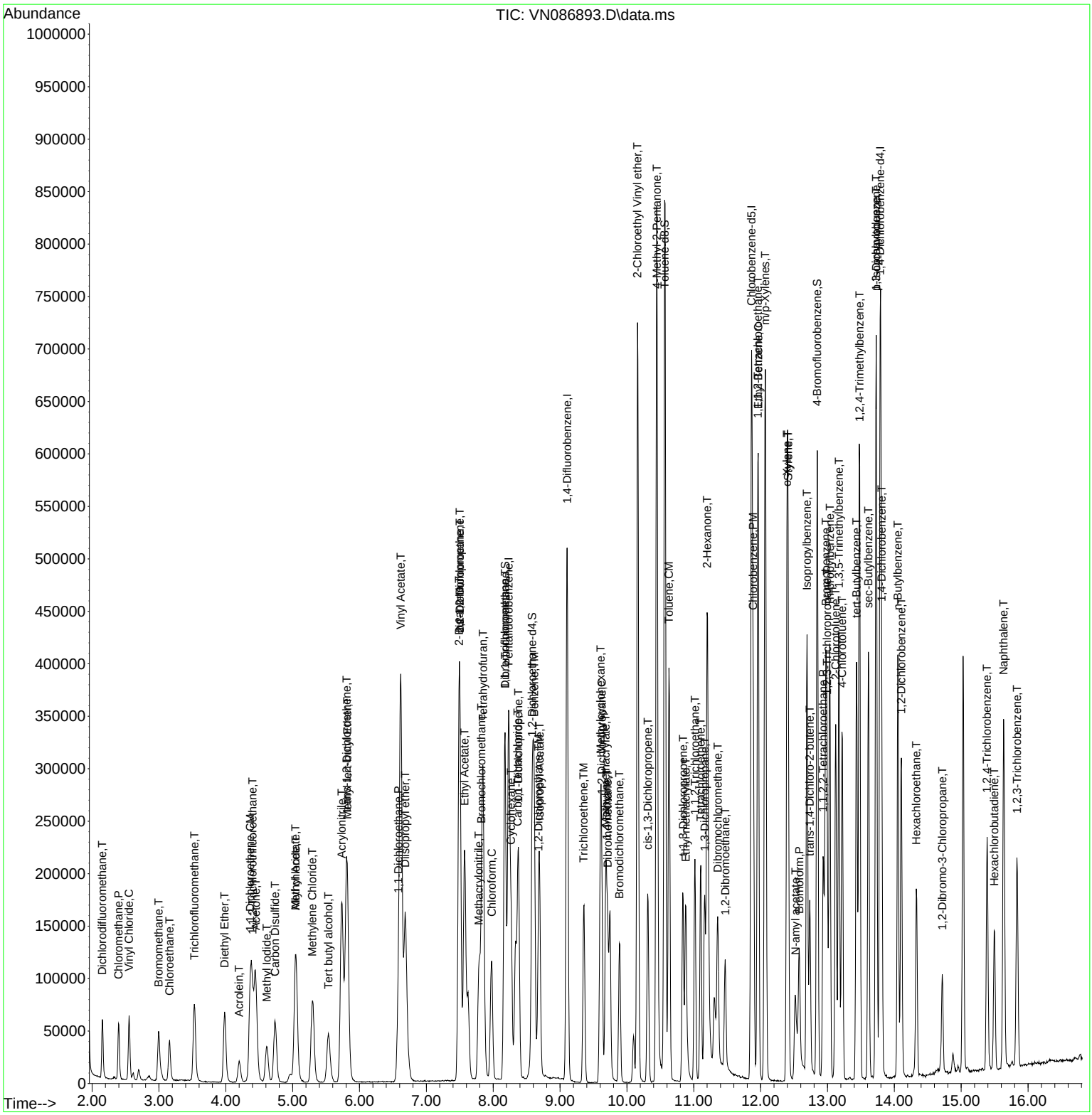
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Data File : VN086893.D
Acq On : 09 Jun 2025 10:50
Operator : JC\MD
Sample : VN0609WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 09 13:27:30 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN0609WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 06/10/2025
Supervised By :Mahesh Dadoda 06/10/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060925\
Data File : VN086902.D
Acq On : 09 Jun 2025 14:04
Operator : JC\MD
Sample : VN0609WBSD01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jun 10 03:32:26 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN0609WBSD01

Manual Integrations APPROVED

Reviewed By :John Carlone 06/10/2025
Supervised By :Mahesh Dadoda 06/10/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.230	168	261604	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	462540	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	392287	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	182953	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	155677	44.446	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 88.900%			
35) Dibromofluoromethane	8.177	113	138371	50.480	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 100.960%			
50) Toluene-d8	10.565	98	523398	48.233	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 96.460%			
62) 4-Bromofluorobenzene	12.847	95	192426	47.729	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 95.460%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.154	85	49965	19.156	ug/l	97
3) Chloromethane	2.401	50	52285	15.523	ug/l	97
4) Vinyl Chloride	2.554	62	63164	18.179	ug/l	98
5) Bromomethane	3.001	94	33037	16.991	ug/l	97
6) Chloroethane	3.159	64	40895	18.222	ug/l	96
7) Trichlorofluoromethane	3.536	101	86708	19.101	ug/l	94
8) Diethyl Ether	3.983	74	39083	19.760	ug/l	89
9) 1,1,2-Trichlorotrifluo...	4.406	101	51965	18.220	ug/l	97
10) Methyl Iodide	4.618	142	46201	12.496	ug/l	99
11) Tert butyl alcohol	5.536	59	79160	83.292	ug/l	100
12) 1,1-Dichloroethene	4.365	96	56740	19.487	ug/l	93
13) Acrolein	4.206	56	25830	85.862	ug/l	96
14) Allyl chloride	5.048	41	79237	16.409	ug/l	95
15) Acrylonitrile	5.736	53	194819	87.701	ug/l	100
16) Acetone	4.448	43	142818	76.889	ug/l	98
17) Carbon Disulfide	4.742	76	140783	17.480	ug/l	98
18) Methyl Acetate	5.048	43	91360	16.878	ug/l	96
19) Methyl tert-butyl Ether	5.818	73	202158	19.175	ug/l	99
20) Methylene Chloride	5.300	84	62323	17.922	ug/l	94
21) trans-1,2-Dichloroethene	5.806	96	60645	18.720	ug/l	92
22) Diisopropyl ether	6.683	45	179323	17.617	ug/l	94
23) Vinyl Acetate	6.618	43	758661	88.215	ug/l	97
24) 1,1-Dichloroethane	6.583	63	107933	18.425	ug/l	98
25) 2-Butanone	7.494	43	248457	82.292	ug/l	95
26) 2,2-Dichloropropane	7.500	77	85897	18.851	ug/l	96
27) cis-1,2-Dichloroethene	7.500	96	73368	18.937	ug/l	96
28) Bromochloromethane	7.824	49	47379	16.450	ug/l	87
29) Tetrahydrofuran	7.853	42	163380	83.068	ug/l	93
30) Chloroform	7.977	83	107556	18.386	ug/l	99
31) Cyclohexane	8.271	56	90403	15.914	ug/l	94
32) 1,1,1-Trichloroethane	8.177	97	92483	18.588	ug/l	93
36) 1,1-Dichloropropene	8.377	75	78110	19.123	ug/l	99
37) Ethyl Acetate	7.571	43	93294	17.942	ug/l	98
38) Carbon Tetrachloride	8.371	117	77600	19.351	ug/l	99
39) Methylcyclohexane	9.606	83	91033	16.268	ug/l	96
40) Benzene	8.612	78	254036	19.020	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060925\
Data File : VN086902.D
Acq On : 09 Jun 2025 14:04
Operator : JC\MD
Sample : VN0609WBSD01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jun 10 03:32:26 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN0609WBSD01

Manual Integrations APPROVED

Reviewed By :John Carlone 06/10/2025
Supervised By :Mahesh Dadoda 06/10/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.789	41	52205	17.877	ug/l		95
42) 1,2-Dichloroethane	8.677	62	75987	18.757	ug/l		98
43) Isopropyl Acetate	8.694	43	146007	17.495	ug/l		95
44) Trichloroethene	9.359	130	64635	20.408	ug/l		96
45) 1,2-Dichloropropane	9.624	63	60591	18.646	ug/l		100
46) Dibromomethane	9.712	93	43406	20.111	ug/l		96
47) Bromodichloromethane	9.894	83	85075	19.158	ug/l		100
48) Methyl methacrylate	9.682	41	66751	17.378	ug/l		96
49) 1,4-Dioxane	9.700	88	25844	369.843	ug/l	#	96
51) 4-Methyl-2-Pentanone	10.447	43	448816	89.334	ug/l		96
52) Toluene	10.630	92	161571	19.794	ug/l		99
53) t-1,3-Dichloropropene	10.835	75	98270	19.790	ug/l		95
54) cis-1,3-Dichloropropene	10.318	75	104098	19.593	ug/l		95
55) 1,1,2-Trichloroethane	11.018	97	61721	19.651	ug/l		97
56) Ethyl methacrylate	10.882	69	100979	20.185	ug/l		93
57) 1,3-Dichloropropane	11.165	76	105036	19.278	ug/l		97
58) 2-Chloroethyl Vinyl ether	10.159	63	239383	80.228	ug/l		96
59) 2-Hexanone	11.206	43	279871	86.483	ug/l		91
60) Dibromochloromethane	11.359	129	66878	20.437	ug/l		99
61) 1,2-Dibromoethane	11.471	107	64475	20.028	ug/l		99
64) Tetrachloroethene	11.106	164	47676	19.204	ug/l		96
65) Chlorobenzene	11.894	112	175411	20.274	ug/l		99
66) 1,1,1,2-Tetrachloroethane	11.959	131	58317	20.968	ug/l		97
67) Ethyl Benzene	11.965	91	290096	19.466	ug/l		99
68) m/p-Xylenes	12.071	106	226281	39.665	ug/l		98
69) o-Xylene	12.394	106	109915	20.117	ug/l		97
70) Styrene	12.412	104	187888	20.096	ug/l		99
71) Bromoform	12.576	173	44372	21.533	ug/l	#	100
73) Isopropylbenzene	12.694	105	266966	20.030	ug/l		99
74) N-amyl acetate	12.524	43	86229	18.514	ug/l	#	90
75) 1,1,2,2-Tetrachloroethane	12.935	83	96951	21.472	ug/l		100
76) 1,2,3-Trichloropropane	12.994	75	94554m	21.742	ug/l		
77) Bromobenzene	12.982	156	67800	22.181	ug/l		93
78) n-propylbenzene	13.035	91	314811	19.436	ug/l		99
79) 2-Chlorotoluene	13.123	91	189034	19.460	ug/l		96
80) 1,3,5-Trimethylbenzene	13.171	105	220034	19.996	ug/l		99
81) trans-1,4-Dichloro-2-b...	12.735	75	41191	21.803	ug/l		92
82) 4-Chlorotoluene	13.218	91	196983	20.042	ug/l		99
83) tert-Butylbenzene	13.435	119	192556	19.116	ug/l		99
84) 1,2,4-Trimethylbenzene	13.482	105	220449	19.978	ug/l		99
85) sec-Butylbenzene	13.612	105	274677	18.777	ug/l		98
86) p-Isopropyltoluene	13.729	119	231742	19.165	ug/l		99
87) 1,3-Dichlorobenzene	13.729	146	124137	20.642	ug/l		99
88) 1,4-Dichlorobenzene	13.812	146	126650	20.656	ug/l		100
89) n-Butylbenzene	14.053	91	207489	17.715	ug/l		98
90) Hexachloroethane	14.329	117	39127	19.090	ug/l		99
91) 1,2-Dichlorobenzene	14.106	146	121942	21.105	ug/l		100
92) 1,2-Dibromo-3-Chloropr...	14.717	75	21661	20.059	ug/l		92
93) 1,2,4-Trichlorobenzene	15.388	180	70202	19.028	ug/l		100
94) Hexachlorobutadiene	15.500	225	24178	17.589	ug/l		96
95) Naphthalene	15.635	128	379545	27.638	ug/l		100
96) 1,2,3-Trichlorobenzene	15.835	180	65394	17.840	ug/l		99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060925\
Data File : VN086902.D
Acq On : 09 Jun 2025 14:04
Operator : JC\MD
Sample : VN0609WBSD01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jun 10 03:32:26 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN0609WBSD01

Manual Integrations APPROVED

Reviewed By :John Carlone 06/10/2025
Supervised By :Mahesh Dadoda 06/10/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

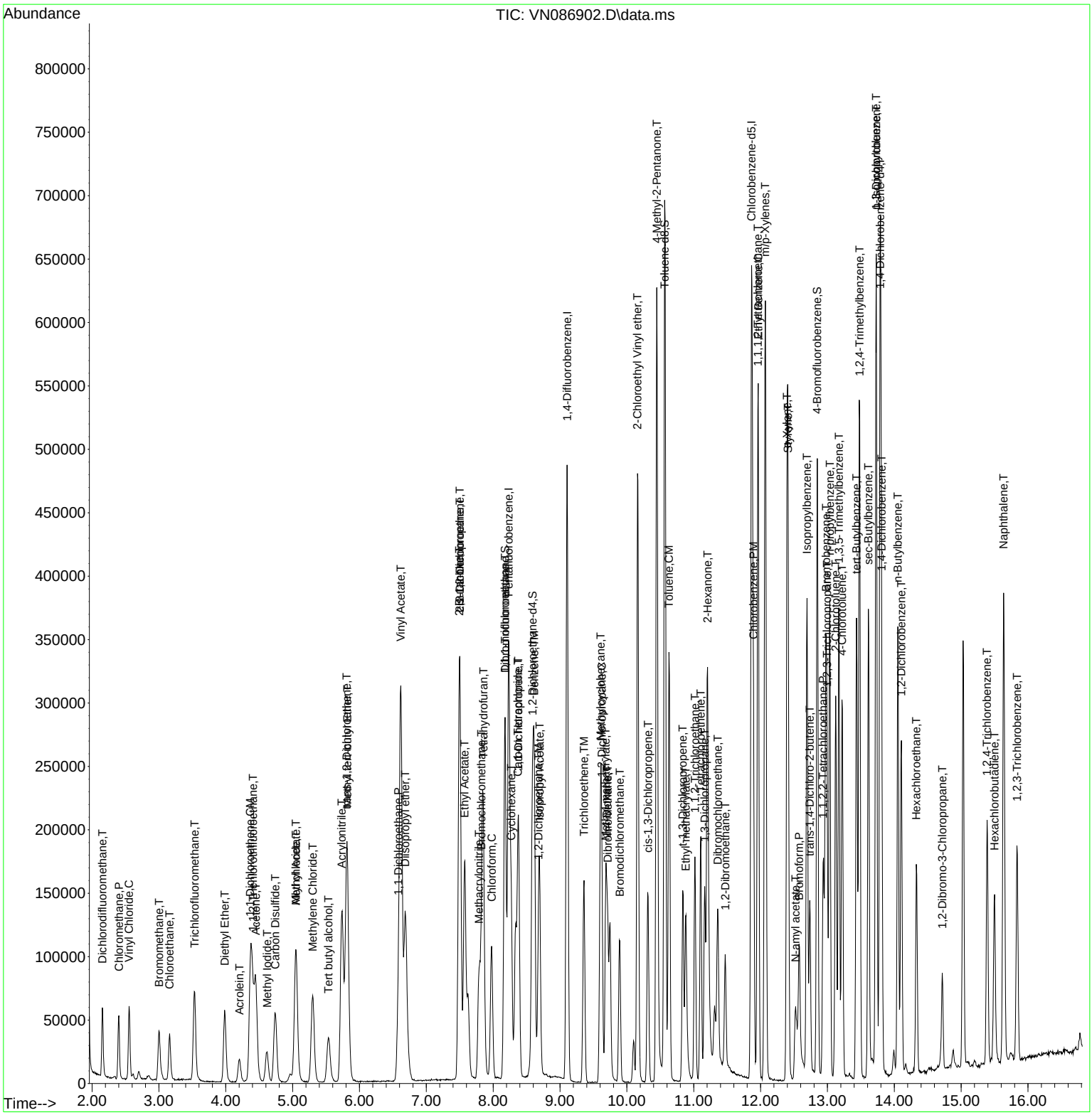
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060925\
Data File : VN086902.D
Acq On : 09 Jun 2025 14:04
Operator : JC\MD
Sample : VN0609WBSD01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jun 10 03:32:26 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN0609WBSD01

Manual Integrations APPROVED

Reviewed By :John Carlone 06/10/2025
Supervised By :Mahesh Dadoda 06/10/2025



284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

Manual Integration Report

Sequence:	vn060625	Instrument	MSVOA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC001	VN086862.D	1,1,2-Trichlorotrifluoroethane	JOHN	6/9/2025 8:02:09 AM	MMDadoda	6/9/2025 1:13:18 PM	Peak Integrated by Software
VSTDICC001	VN086862.D	1,2,3-Trichloropropane	JOHN	6/9/2025 8:02:09 AM	MMDadoda	6/9/2025 1:13:18 PM	Peak Integrated by Software
VSTDICC001	VN086862.D	1,4-Dichlorobenzene	JOHN	6/9/2025 8:02:09 AM	MMDadoda	6/9/2025 1:13:18 PM	Peak Integrated by Software
VSTDICC001	VN086862.D	2-Hexanone	JOHN	6/9/2025 8:02:09 AM	MMDadoda	6/9/2025 1:13:18 PM	Peak Integrated by Software
VSTDICC001	VN086862.D	N-amyl acetate	JOHN	6/9/2025 8:02:09 AM	MMDadoda	6/9/2025 1:13:18 PM	Peak Integrated by Software
VSTDICC005	VN086863.D	1,2,3-Trichloropropane	JOHN	6/9/2025 8:02:13 AM	MMDadoda	6/9/2025 1:13:19 PM	Peak Integrated by Software
VSTDICC005	VN086863.D	N-amyl acetate	JOHN	6/9/2025 8:02:13 AM	MMDadoda	6/9/2025 1:13:19 PM	Peak Integrated by Software
VSTDICC020	VN086864.D	1,2,3-Trichloropropane	JOHN	6/9/2025 8:02:19 AM	MMDadoda	6/9/2025 1:13:21 PM	Peak Integrated by Software
VSTDICCC050	VN086865.D	1,2,3-Trichloropropane	JOHN	6/9/2025 8:02:25 AM	MMDadoda	6/9/2025 1:13:23 PM	Peak Integrated by Software
VSTDICC100	VN086866.D	1,2,3-Trichloropropane	JOHN	6/9/2025 8:02:29 AM	MMDadoda	6/9/2025 1:13:28 PM	Peak Integrated by Software
VSTDICC150	VN086867.D	1,2,3-Trichloropropane	JOHN	6/9/2025 8:02:34 AM	MMDadoda	6/9/2025 1:13:30 PM	Peak Integrated by Software
VSTDICV050	VN086869.D	1,2,3-Trichloropropane	JOHN	6/9/2025 8:02:38 AM	MMDadoda	6/9/2025 1:13:34 PM	Peak Integrated by Software
VSTDCCC050	VN086886.D	1,2,3-Trichloropropane	JOHN	6/9/2025 8:02:55 AM	MMDadoda	6/9/2025 1:13:44 PM	Peak Integrated by Software

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Manual Integration Report

Sequence:	vn060625	Instrument	MSVOA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

Manual Integration Report

Sequence:	vn060925	Instrument	MSVOA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VN086888.D	1,2,3-Trichloropropane	JOHN	6/10/2025 9:00:41 AM	MMDadoda	6/10/2025 2:25:05 PM	Peak Integrated by Software
VN0609WBS01	VN086893.D	1,2,3-Trichloropropane	JOHN	6/10/2025 9:00:50 AM	MMDadoda	6/10/2025 2:25:08 PM	Peak Integrated by Software
VN0609WBSD01	VN086902.D	1,2,3-Trichloropropane	JOHN	6/10/2025 9:01:04 AM	MMDadoda	6/10/2025 2:25:12 PM	Peak Integrated by Software
VSTDCCC050	VN086911.D	1,2,3-Trichloropropane	JOHN	6/10/2025 9:03:16 AM	MMDadoda	6/10/2025 2:25:13 PM	Peak Integrated by Software

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Fax : 908 789 8922

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN060625

Review By	John Carlone	Review On	6/9/2025 8:08:23 AM		
Supervise By	Mahesh Dadoda	Supervise On	6/9/2025 1:13:51 PM		
SubDirectory	VN060625	HP Acquire Method		HP Processing Method	82N060625W.M

STD. NAME	STD REF.#
Tune/Reschk	VP134155
Initial Calibration Stds	VP134242,VP134243,VP134244,VP134245,VP134246,VP134247
CCC	VP134156
Internal Standard/PEM	
ICV/I.BLK	VP134248
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VN086861.D	06 Jun 2025 07:59	JC\MD	Ok
2	VSTDICC001	VN086862.D	06 Jun 2025 12:44	JC\MD	Ok,M
3	VSTDICC005	VN086863.D	06 Jun 2025 13:17	JC\MD	Ok,M
4	VSTDICC020	VN086864.D	06 Jun 2025 13:40	JC\MD	Ok,M
5	VSTDICCC050	VN086865.D	06 Jun 2025 14:03	JC\MD	Ok,M
6	VSTDICC100	VN086866.D	06 Jun 2025 14:26	JC\MD	Ok,M
7	VSTDICC150	VN086867.D	06 Jun 2025 14:49	JC\MD	Ok,M
8	IBLK	VN086868.D	06 Jun 2025 15:12	JC\MD	Ok
9	VSTDICV050	VN086869.D	06 Jun 2025 15:54	JC\MD	Ok,M
10	VN0606WBL01	VN086870.D	06 Jun 2025 16:47	JC\MD	Ok
11	VN0606WBL02	VN086871.D	06 Jun 2025 17:10	JC\MD	Ok
12	VN0606WBS01	VN086872.D	06 Jun 2025 17:33	JC\MD	Ok,M
13	VN0606WBSD01	VN086873.D	06 Jun 2025 17:56	JC\MD	Ok,M
14	Q2254-01	VN086874.D	06 Jun 2025 18:19	JC\MD	Not Ok
15	Q2237-02	VN086875.D	06 Jun 2025 18:42	JC\MD	Ok
16	Q2216-02	VN086876.D	06 Jun 2025 19:05	JC\MD	Ok
17	Q2216-03	VN086877.D	06 Jun 2025 19:28	JC\MD	Ok
18	Q2216-04	VN086878.D	06 Jun 2025 19:51	JC\MD	Ok
19	Q2216-05	VN086879.D	06 Jun 2025 20:13	JC\MD	Not Ok
20	Q2216-06	VN086880.D	06 Jun 2025 20:36	JC\MD	Not Ok
21	Q2206-04	VN086881.D	06 Jun 2025 20:59	JC\MD	Not Ok

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Fax : 908 789 8922

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN060625

Review By	John Carlone	Review On	6/9/2025 8:08:23 AM		
Supervise By	Mahesh Dadoda	Supervise On	6/9/2025 1:13:51 PM		
SubDirectory	VN060625	HP Acquire Method		HP Processing Method	82N060625W.M

STD. NAME	STD REF.#
Tune/Reschk	VP134155
Initial Calibration Stds	VP134242,VP134243,VP134244,VP134245,VP134246,VP134247
CCC	VP134156
Internal Standard/PEM	
ICV/I.BLK	VP134248
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	Q2242-04	VN086882.D	06 Jun 2025 21:21	JC\MD	Not Ok
23	Q2192-01	VN086883.D	06 Jun 2025 21:44	JC\MD	Not Ok
24	Q2198-02	VN086884.D	06 Jun 2025 22:07	JC\MD	Not Ok
25	Q2198-04	VN086885.D	06 Jun 2025 22:29	JC\MD	Not Ok
26	VSTDCCC050	VN086886.D	06 Jun 2025 22:52	JC\MD	Not Ok

M : Manual Integration

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN060925

Review By	John Carlone	Review On	6/10/2025 9:06:37 AM		
Supervise By	Mahesh Dadoda	Supervise On	6/10/2025 2:26:32 PM		
SubDirectory	VN060925	HP Acquire Method		HP Processing Method	82N060625W.M

STD. NAME	STD REF.#
Tune/Reschk	VP134162
Initial Calibration Stds	
CCC	VP134163,VP134164
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VN086887.D	09 Jun 2025 08:04	JC\MD	Ok
2	VSTDCCC050	VN086888.D	09 Jun 2025 08:37	JC\MD	Ok,M
3	VN0609MBL01	VN086889.D	09 Jun 2025 09:12	JC\MD	Ok
4	VN0609WBL01	VN086890.D	09 Jun 2025 09:33	JC\MD	Ok
5	VN0609MBS01	VN086891.D	09 Jun 2025 09:55	JC\MD	Ok,M
6	Q2216-01	VN086892.D	09 Jun 2025 10:29	JC\MD	Dilution
7	VN0609WBS01	VN086893.D	09 Jun 2025 10:50	JC\MD	Ok,M
8	Q2254-01	VN086894.D	09 Jun 2025 11:12	JC\MD	Ok
9	Q2216-05	VN086895.D	09 Jun 2025 11:33	JC\MD	Ok
10	Q2216-06	VN086896.D	09 Jun 2025 11:55	JC\MD	Ok,M
11	Q2236-01	VN086897.D	09 Jun 2025 12:16	JC\MD	Ok
12	Q2236-05RE	VN086898.D	09 Jun 2025 12:38	JC\MD	Confirms
13	Q2236-09	VN086899.D	09 Jun 2025 12:59	JC\MD	Ok
14	Q2236-17RE	VN086900.D	09 Jun 2025 13:21	JC\MD	Confirms
15	Q2216-01DL	VN086901.D	09 Jun 2025 13:42	JC\MD	Ok
16	VN0609WBSD01	VN086902.D	09 Jun 2025 14:04	JC\MD	Ok,M
17	Q2192-01	VN086903.D	09 Jun 2025 14:25	JC\MD	Ok
18	Q2242-04	VN086904.D	09 Jun 2025 14:47	JC\MD	Ok
19	Q2198-02	VN086905.D	09 Jun 2025 15:08	JC\MD	Ok
20	Q2198-04	VN086906.D	09 Jun 2025 15:30	JC\MD	Ok
21	Q2206-04	VN086907.D	09 Jun 2025 15:51	JC\MD	Ok

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Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN060925

Review By	John Carlone	Review On	6/10/2025 9:06:37 AM		
Supervise By	Mahesh Dadoda	Supervise On	6/10/2025 2:26:32 PM		
SubDirectory	VN060925	HP Acquire Method		HP Processing Method	82N060625W.M

STD. NAME	STD REF.#
Tune/Reschk	VP134162
Initial Calibration Stds	
CCC	VP134163,VP134164
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	Q2226-04	VN086908.D	09 Jun 2025 16:13	JC\MD	Ok
23	Q2228-04	VN086909.D	09 Jun 2025 16:34	JC\MD	Ok
24	Q2235-01	VN086910.D	09 Jun 2025 16:55	JC\MD	Ok
25	VSTDCCC050	VN086911.D	09 Jun 2025 17:17	JC\MD	Ok,M

M : Manual Integration

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Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN060625

Review By	John Carlone	Review On	6/9/2025 8:08:23 AM		
Supervise By	Mahesh Dadoda	Supervise On	6/9/2025 1:13:51 PM		
SubDirectory	VN060625	HP Acquire Method		HP Processing Method	82N060625W.M

STD. NAME	STD REF.#
Tune/Reschk	VP134155
Initial Calibration Stds	VP134242,VP134243,VP134244,VP134245,VP134246,VP134247
CCC	VP134156
Internal Standard/PEM	
ICV/I.BLK	VP134248
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VN086861.D	06 Jun 2025 07:59		JC\MD	Ok
2	VSTDICC001	VSTDICC001	VN086862.D	06 Jun 2025 12:44	Method failed for com.#13	JC\MD	Ok,M
3	VSTDICC005	VSTDICC005	VN086863.D	06 Jun 2025 13:17		JC\MD	Ok,M
4	VSTDICC020	VSTDICC020	VN086864.D	06 Jun 2025 13:40		JC\MD	Ok,M
5	VSTDICCC050	VSTDICCC050	VN086865.D	06 Jun 2025 14:03		JC\MD	Ok,M
6	VSTDICC100	VSTDICC100	VN086866.D	06 Jun 2025 14:26		JC\MD	Ok,M
7	VSTDICC150	VSTDICC150	VN086867.D	06 Jun 2025 14:49		JC\MD	Ok,M
8	IBLK	IBLK	VN086868.D	06 Jun 2025 15:12		JC\MD	Ok
9	VSTDICV050	ICVVN060625	VN086869.D	06 Jun 2025 15:54		JC\MD	Ok,M
10	VN0606WBL01	VN0606WBL01	VN086870.D	06 Jun 2025 16:47		JC\MD	Ok
11	VN0606WBL02	VN0606WBL02	VN086871.D	06 Jun 2025 17:10		JC\MD	Ok
12	VN0606WBS01	VN0606WBS01	VN086872.D	06 Jun 2025 17:33		JC\MD	Ok,M
13	VN0606WBSD01	VN0606WBSD01	VN086873.D	06 Jun 2025 17:56		JC\MD	Ok,M
14	Q2254-01	BP-VPB-182-GW-810-8	VN086874.D	06 Jun 2025 18:19	vial A pH<2 endccc out of tune	JC\MD	Not Ok
15	Q2237-02	TW-WTS-10	VN086875.D	06 Jun 2025 18:42	vial A pH<2	JC\MD	Ok
16	Q2216-02	3887	VN086876.D	06 Jun 2025 19:05	vial A pH<2	JC\MD	Ok
17	Q2216-03	3888	VN086877.D	06 Jun 2025 19:28	vial A pH<2	JC\MD	Ok
18	Q2216-04	3864	VN086878.D	06 Jun 2025 19:51	vial A pH<2	JC\MD	Ok

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Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN060625

Review By	John Carlone	Review On	6/9/2025 8:08:23 AM		
Supervise By	Mahesh Dadoda	Supervise On	6/9/2025 1:13:51 PM		
SubDirectory	VN060625	HP Acquire Method		HP Processing Method	82N060625W.M

STD. NAME	STD REF.#
Tune/Reschk	VP134155
Initial Calibration Stds	VP134242,VP134243,VP134244,VP134245,VP134246,VP134247
CCC	VP134156
Internal Standard/PEM	
ICV/I.BLK	VP134248
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	Q2216-05	3865	VN086879.D	06 Jun 2025 20:13	vial A pH<2 Out of Tune	JC\MD	Not Ok
20	Q2216-06	3851	VN086880.D	06 Jun 2025 20:36	vial A pH<2 Out of Tune	JC\MD	Not Ok
21	Q2206-04	TP-1	VN086881.D	06 Jun 2025 20:59	vial A pH<2 Out of Tune	JC\MD	Not Ok
22	Q2242-04	TP09-MHJ	VN086882.D	06 Jun 2025 21:21	vial A pH<2 Out of Tune	JC\MD	Not Ok
23	Q2192-01	SB-1	VN086883.D	06 Jun 2025 21:44	vial A pH<2 Out of Tune	JC\MD	Not Ok
24	Q2198-02	B-202-SB02	VN086884.D	06 Jun 2025 22:07	vial A pH<2 Out of Tune	JC\MD	Not Ok
25	Q2198-04	B-207-SB02	VN086885.D	06 Jun 2025 22:29	vial A pH<2 Out of Tune	JC\MD	Not Ok
26	VSTDCCC050	VSTDCCC050EC	VN086886.D	06 Jun 2025 22:52	Out of Tune	JC\MD	Not Ok

M : Manual Integration

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Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN060925

Review By	John Carlone	Review On	6/10/2025 9:06:37 AM		
Supervise By	Mahesh Dadoda	Supervise On	6/10/2025 2:26:32 PM		
SubDirectory	VN060925	HP Acquire Method		HP Processing Method	82N060625W.M

STD. NAME	STD REF.#
Tune/Reschk	VP134162
Initial Calibration Stds	
CCC	VP134163,VP134164
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VN086887.D	09 Jun 2025 08:04		JC\MD	Ok
2	VSTDCCC050	VSTDCCC050	VN086888.D	09 Jun 2025 08:37	pH#Lot#V12668	JC\MD	Ok,M
3	VN0609MBL01	VN0609MBL01	VN086889.D	09 Jun 2025 09:12		JC\MD	Ok
4	VN0609WBL01	VN0609WBL01	VN086890.D	09 Jun 2025 09:33		JC\MD	Ok
5	VN0609MBS01	VN0609MBS01	VN086891.D	09 Jun 2025 09:55		JC\MD	Ok,M
6	Q2216-01	3898	VN086892.D	09 Jun 2025 10:29	need 10X	JC\MD	Dilution
7	VN0609WBS01	VN0609WBS01	VN086893.D	09 Jun 2025 10:50		JC\MD	Ok,M
8	Q2254-01	BP-VPB-182-GW-810-8	VN086894.D	09 Jun 2025 11:12	vial B pH<2	JC\MD	Ok
9	Q2216-05	3865	VN086895.D	09 Jun 2025 11:33	vial B pH<2	JC\MD	Ok
10	Q2216-06	3851	VN086896.D	09 Jun 2025 11:55	vial B pH<2	JC\MD	Ok,M
11	Q2236-01	WC-A4-05A-G	VN086897.D	09 Jun 2025 12:16	vial B pH#5.0	JC\MD	Ok
12	Q2236-05RE	WC-A2-04-GRE	VN086898.D	09 Jun 2025 12:38	vial B pH#5.0 Surrogate Fail	JC\MD	Confirms
13	Q2236-09	WC-A2-05-G	VN086899.D	09 Jun 2025 12:59	vial B pH#5.0	JC\MD	Ok
14	Q2236-17RE	WC-A2-07-GRE	VN086900.D	09 Jun 2025 13:21	vial B pH#5.0 Surrogate Fail	JC\MD	Confirms
15	Q2216-01DL	3898DL	VN086901.D	09 Jun 2025 13:42		JC\MD	Ok
16	VN0609WBSD01	VN0609WBSD01	VN086902.D	09 Jun 2025 14:04		JC\MD	Ok,M
17	Q2192-01	SB-1	VN086903.D	09 Jun 2025 14:25	vial B pH#5.0	JC\MD	Ok
18	Q2242-04	TP09-MHJ	VN086904.D	09 Jun 2025 14:47	vial B pH#5.0	JC\MD	Ok

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Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN060925

Review By	John Carlone	Review On	6/10/2025 9:06:37 AM		
Supervise By	Mahesh Dadoda	Supervise On	6/10/2025 2:26:32 PM		
SubDirectory	VN060925	HP Acquire Method		HP Processing Method	82N060625W.M

STD. NAME	STD REF.#
Tune/Reschk	VP134162
Initial Calibration Stds	
CCC	VP134163,VP134164
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	Q2198-02	B-202-SB02	VN086905.D	09 Jun 2025 15:08	vial B pH#5.0	JC\MD	Ok
20	Q2198-04	B-207-SB02	VN086906.D	09 Jun 2025 15:30	vial B pH#5.0	JC\MD	Ok
21	Q2206-04	TP-1	VN086907.D	09 Jun 2025 15:51	vial B pH#5.0	JC\MD	Ok
22	Q2226-04	TP06-MHI-WC	VN086908.D	09 Jun 2025 16:13	vial B pH#5.0	JC\MD	Ok
23	Q2228-04	TP08-MHI-WC	VN086909.D	09 Jun 2025 16:34	vial B pH#5.0	JC\MD	Ok
24	Q2235-01	WC-A2-08-G	VN086910.D	09 Jun 2025 16:55	vial B pH#5.0	JC\MD	Ok
25	VSTDCCC050	VSTDCCC050EC	VN086911.D	09 Jun 2025 17:17		JC\MD	Ok,M

M : Manual Integration

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LAB CHRONICLE

OrderID:	Q2198	**OrderDate:**	6/3/2025 2:31:00 PM
Client:	Portal Partners Tri-Venture	**Project:**	Amtrak Sawtooth Bridges 2025
Contact:	Joseph Krupansky	**Location:**	N22,VOA Ref. #2 Soil,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2198-02	**B-202-SB02**	**TCLP**			**05/31/25**			**06/03/25**
			TCLP VOA	8260D			06/09/25	
Q2198-04	**B-207-SB02**	**TCLP**			**06/01/25**			**06/03/25**
			TCLP VOA	8260D			06/09/25	

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TCLP EXTRACTION LOGPAGE

PB168272

SOP ID : M1311-TCLP-16

SDG No : N/A

Weigh By : JP

Balance ID : WC SC-7

pH Meter ID : WC PH METER-1

Extraction By : JP

Filter By : JP

Pippete ID : WC

Tumbler ID : ZHE-1 / ZHE-2

TCLP Filter ID : 50223706

Start Prep Date : 06/04/2025 **Time :** 15:00

End Prep Date : 06/05/2025 **Time :** 09:20

Combination Ratio : 20

ZHE Cleaning Batch : JB N/A

Initial Room Temperature: 24 °C

Final Room Temperature: 22 °C

TCLP Technician Signature : JB

Supervisor By : JZ

Standared Name	MLS USED	STD REF. # FROM LOG
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Chemical Used	ML/SAMPLE U	Lot Number
TCLP-FLUID-1	N/A	WP112795
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
40ml VOA Vials	430992	N/A

Extraction Conformance/Non-Conformance Comments:

ALL ZHE samples are extracted and given as vial A & B. Leak checked after 10 minutes of tumbling. TUMBLER ZHE-1/ ZHE-2 checked,30 rpm.

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
06/05/25 11:30	JB 1 CCA A0cm	S.Y IVDC Lab
	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

TCLP EXTRACTION LOGPAGE

PB168272

Sample ID	ClientID	ZHE Vessel ID	Sample Wt (g)	Volume Extraction Fluid #1 (mL)	Multi phasic	Phase Miscible	Phases Combined	Final Leachate PH	Metals Leachate Adj. PH	Prep Pos
PB168272TB	LEB272	16	N/A	500	N/A	N/A	N/A	4.94	N/A	ZHE-2
Q2192-01	SB-1	01	25.02	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
Q2194-02	COMP-12	02	25.03	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
Q2194-04	COMP-13	03	25.02	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
Q2198-02	B-202-SB02	04	25.03	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
Q2198-04	~~B-207-SB01~~ B-207-SB02	05	25.02	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
Q2206-04	TP-1	06	25.02	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
Q2207-09	BU-703-COMP-01 6613.25	07	25.03	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
Q2207-18	BU-703-COMP-02	08	25.02	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
Q2207-27	BU-703-COMP-03	09	25.03	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
Q2207-36	BU-703-COMP-04	10	25.02	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
Q2207-45	BU-703-COMP-05	11	25.03	500	N/A	N/A	N/A	N/A	N/A	ZHE-2
Q2208-09	BU-703-COMP-06	12	25.02	500	N/A	N/A	N/A	N/A	N/A	ZHE-2
Q2208-18	BU-703-COMP-07	13	25.03	500	N/A	N/A	N/A	N/A	N/A	ZHE-2
Q2208-27	BU-703-COMP-08	14	25.02	500	N/A	N/A	N/A	N/A	N/A	ZHE-2
Q2208-36	BU-703-COMP-09	15	25.01	500	N/A	N/A	N/A	N/A	N/A	ZHE-2

SampleID	ClientID	Sample Weight (g)	Filter Weight (g)	Filtrate (mL)	Filter + Solid (After 100°C)	% solids	% Dry Solids
PB168272TB	LEB272	N/A	N/A	N/A	N/A	N/A	N/A
Q2192-01	SB-1	N/A	N/A	N/A	N/A	100	N/A
Q2194-02	COMP-12	N/A	N/A	N/A	N/A	100	N/A
Q2194-04	COMP-13	N/A	N/A	N/A	N/A	100	N/A
Q2198-02	B-202-SB02	N/A	N/A	N/A	N/A	100	N/A
Q2198-04	~~B-207-SB01~~ B-207-SB02	N/A	N/A	N/A	N/A	100	N/A
Q2206-04	TP-1 TP	N/A	N/A	N/A	N/A	100	N/A
Q2207-09	BU-703-COMP-01	N/A	N/A	N/A	N/A	100	N/A
Q2207-18	BU-703-COMP-02 06/13/25	N/A	N/A	N/A	N/A	100	N/A
Q2207-27	BU-703-COMP-03	N/A	N/A	N/A	N/A	100	N/A
Q2207-36	BU-703-COMP-04	N/A	N/A	N/A	N/A	100	N/A
Q2207-45	BU-703-COMP-05	N/A	N/A	N/A	N/A	100	N/A
Q2208-09	BU-703-COMP-06	N/A	N/A	N/A	N/A	100	N/A
Q2208-18	BU-703-COMP-07	N/A	N/A	N/A	N/A	100	N/A
Q2208-27	BU-703-COMP-08	N/A	N/A	N/A	N/A	100	N/A
Q2208-36	BU-703-COMP-09	N/A	N/A	N/A	N/A	100	N/A

WORKLIST(Hardcopy Internal Chain)

WorkList Name : TCLP ZHE Q2198 **WorkList ID :** 189915 **Department :** TCLP Extraction **Date :** 06-04-2025 09:51:47

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2192-01	SB-1	Solid	TCLP ZHE Extraction	Cool 4 deg C	PSEG03	N31	06/03/2025	1311 ZHE
Q2194-02	COMP-12	Solid	TCLP ZHE Extraction	Cool 4 deg C	PSEG03	L31	06/03/2025	1311 ZHE
Q2194-04	COMP-13	Solid	TCLP ZHE Extraction	Cool 4 deg C	PSEG03	L31	06/03/2025	1311 ZHE
Q2198-02	B-202-SB02	Solid	TCLP ZHE Extraction	Cool 4 deg C	PORT06	N22	05/31/2025	1311 ZHE
Q2198-04	~~B-207-SB01~~ B-207-SB02	Solid	TCLP ZHE Extraction	Cool 4 deg C	PORT06	N22	06/01/2025	1311 ZHE
Q2206-04	TP-1	Solid	TCLP ZHE Extraction	Cool 4 deg C	PSEG03	N31	06/04/2025	1311 ZHE
Q2207-09	BU-703-COMP-01	Solid	TCLP ZHE Extraction	Cool 4 deg C	PSEG03	N31	06/02/2025	1311 ZHE
Q2207-18	BU-703-COMP-02	Solid	TCLP ZHE Extraction	Cool 4 deg C	PSEG03	N31	06/02/2025	1311 ZHE
Q2207-27	BU-703-COMP-03	Solid	TCLP ZHE Extraction	Cool 4 deg C	PSEG03	N31	06/02/2025	1311 ZHE
Q2207-36	BU-703-COMP-04	Solid	TCLP ZHE Extraction	Cool 4 deg C	PSEG03	N31	06/02/2025	1311 ZHE
Q2207-45	BU-703-COMP-05	Solid	TCLP ZHE Extraction	Cool 4 deg C	PSEG03	N31	06/02/2025	1311 ZHE
Q2208-09	BU-703-COMP-06	Solid	TCLP ZHE Extraction	Cool 4 deg C	PSEG03	N31	06/02/2025	1311 ZHE
Q2208-18	BU-703-COMP-07	Solid	TCLP ZHE Extraction	Cool 4 deg C	PSEG03	N31	06/02/2025	1311 ZHE
Q2208-27	BU-703-COMP-08	Solid	TCLP ZHE Extraction	Cool 4 deg C	PSEG03	N31	06/02/2025	1311 ZHE
Q2208-36	BU-703-COMP-09	Solid	TCLP ZHE Extraction	Cool 4 deg C	PSEG03	N31	06/02/2025	1311 ZHE

Date/Time 06/04/25 12:00
Raw Sample Received by:
Raw Sample Relinquished by:

Date/Time 06/04/25 17:30
Raw Sample Received by:
Raw Sample Relinquished by:

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Hit Summary Sheet
SW-846

SDG No.: Q2198

Client: Portal Partners Tri-Venture

Sample ID	Client ID	Matrix	Parameter		Concentration	C	MDL	RDL	Units
Client ID :	**B-202-SB02**								
Q2198-01	B-202-SB02	SOIL	Phenanthrene		170.000	J	29	240	ug/Kg
Q2198-01	B-202-SB02	SOIL	Fluoranthene		180.000	J	41.7	240	ug/Kg
Q2198-01	B-202-SB02	SOIL	Pyrene		130.000	J	50	240	ug/Kg
			Total Svoc :		**480.00**				
Q2198-01	B-202-SB02	SOIL	2-Pentanone, 4-hydroxy-4-methyl	*	300.000	AB	0	0	ug/Kg
Q2198-01	B-202-SB02	SOIL	Benzophenone	*	430.000	J	0	0	ug/Kg
Q2198-01	B-202-SB02	SOIL	n-Hexadecanoic acid	*	140.000	J	0	0	ug/Kg
Q2198-01	B-202-SB02	SOIL	Trifluoroacetoxy hexadecane	*	170.000	J	0	0	ug/Kg
			Total Tics :		**1,040.00**				
			Total Concentration:		**1,520.00**				
Client ID :	**B-207-SB02**								
Q2198-03	B-207-SB02	SOIL	Phenanthrene		340.000		40	330	ug/Kg
Q2198-03	B-207-SB02	SOIL	Fluoranthene		400.000		57.4	330	ug/Kg
Q2198-03	B-207-SB02	SOIL	Pyrene		320.000	J	68.9	330	ug/Kg
Q2198-03	B-207-SB02	SOIL	Benzo(a)anthracene		140.000	J	44	330	ug/Kg
Q2198-03	B-207-SB02	SOIL	Chrysene		140.000	J	38.1	330	ug/Kg
Q2198-03	B-207-SB02	SOIL	Benzo(b)fluoranthene		160.000	J	36.4	330	ug/Kg
Q2198-03	B-207-SB02	SOIL	Benzo(a)pyrene		130.000	J	56.5	330	ug/Kg
			Total Svoc :		**1,630.00**				
Q2198-03	B-207-SB02	SOIL	1H-3a,7-Methanoazulene, 2,3,4,7,	*	140.000	J	0	0	ug/Kg
Q2198-03	B-207-SB02	SOIL	2-Pentanone, 4-hydroxy-4-methyl	*	290.000	AB	0	0	ug/Kg
Q2198-03	B-207-SB02	SOIL	2-Phenanthrenol, 4b,5,6,7,8,8a,9,1	*	460.000	J	0	0	ug/Kg
Q2198-03	B-207-SB02	SOIL	4,4-Bis(tetrahydrothiopyran)	*	490.000	J	0	0	ug/Kg
Q2198-03	B-207-SB02	SOIL	n-Hexadecanoic acid	*	330.000	J	0	0	ug/Kg
Q2198-03	B-207-SB02	SOIL	Benzophenone	*	640.000	J	0	0	ug/Kg
Q2198-03	B-207-SB02	SOIL	Cyclohexadecane	*	500.000	J	0	0	ug/Kg
			Total Tics :		**2,850.00**				
			Total Concentration:		**4,480.00**				
Client ID :	**B-202-GW01**								
Q2198-05	B-202-GW01	WATER	1-Heneicosanol	*	12.700	J	0	0	ug/L
Q2198-05	B-202-GW01	WATER	2-Pentanone, 4-hydroxy-4-methyl	*	5.300	AB	0	0	ug/L
Q2198-05	B-202-GW01	WATER	2-Tridecanone	*	7.400	J	0	0	ug/L
Q2198-05	B-202-GW01	WATER	Benzophenone	*	7.000	J	0	0	ug/L
Q2198-05	B-202-GW01	WATER	Methanone, (1-hydroxycyclohexy	*	2.100	J	0	0	ug/L
Q2198-05	B-202-GW01	WATER	n-Hexadecanoic acid	*	12.900	J	0	0	ug/L
Q2198-05	B-202-GW01	WATER	Octadecanoic acid	*	3.400	J	0	0	ug/L
Q2198-05	B-202-GW01	WATER	unknown17.404	*	2.400	J	0	0	ug/L

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Hit Summary Sheet
SW-846

SDG No.: Q2198

Client: Portal Partners Tri-Venture

Sample ID	Client ID	Parameter	Concentration	C	MDL	RDL	Units
		Total Tics :	**53.20**				
		Total Concentration:	**53.20**				

SAMPLE DATA

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	05/31/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	06/03/25
Client Sample ID:	B-202-SB02	SDG No.:	Q2198
Lab Sample ID:	Q2198-01	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	71.9
Sample Wt/Vol:	30.05 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142651.D	1	06/05/25 09:40	06/06/25 17:31	PB168300

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	220	U	220	460	ug/Kg
108-95-2	Phenol	30.7	U	30.7	240	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	33.7	U	33.7	240	ug/Kg
95-57-8	2-Chlorophenol	33.9	U	33.9	240	ug/Kg
95-48-7	2-Methylphenol	41.5	U	41.5	240	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	52.1	U	52.1	240	ug/Kg
98-86-2	Acetophenone	41.0	U	41.0	240	ug/Kg
65794-96-9	3+4-Methylphenols	57.1	U	57.1	460	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	65.8	U	65.8	110	ug/Kg
67-72-1	Hexachloroethane	24.4	U	24.4	240	ug/Kg
98-95-3	Nitrobenzene	25.4	U	25.4	240	ug/Kg
78-59-1	Isophorone	45.5	U	45.5	240	ug/Kg
88-75-5	2-Nitrophenol	80.8	U	80.8	240	ug/Kg
105-67-9	2,4-Dimethylphenol	90.0	U	90.0	240	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	42.8	U	42.8	240	ug/Kg
120-83-2	2,4-Dichlorophenol	39.3	U	39.3	240	ug/Kg
91-20-3	Naphthalene	31.5	U	31.5	240	ug/Kg
106-47-8	4-Chloroaniline	49.2	UQ	49.2	240	ug/Kg
87-68-3	Hexachlorobutadiene	35.1	U	35.1	240	ug/Kg
105-60-2	Caprolactam	72.3	U	72.3	460	ug/Kg
59-50-7	4-Chloro-3-methylphenol	39.9	U	39.9	240	ug/Kg
91-57-6	2-Methylnaphthalene	35.5	U	35.5	240	ug/Kg
77-47-4	Hexachlorocyclopentadiene	160	U	160	460	ug/Kg
88-06-2	2,4,6-Trichlorophenol	27.5	U	27.5	240	ug/Kg
95-95-4	2,4,5-Trichlorophenol	40.4	U	40.4	240	ug/Kg
92-52-4	1,1-Biphenyl	30.3	U	30.3	240	ug/Kg
91-58-7	2-Chloronaphthalene	31.2	U	31.2	240	ug/Kg
88-74-4	2-Nitroaniline	66.8	U	66.8	240	ug/Kg
131-11-3	Dimethylphthalate	37.6	U	37.6	240	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	05/31/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	06/03/25
Client Sample ID:	B-202-SB02	SDG No.:	Q2198
Lab Sample ID:	Q2198-01	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	71.9
Sample Wt/Vol:	30.05 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142651.D	1	06/05/25 09:40	06/06/25 17:31	PB168300

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	40.1	U	40.1	240	ug/Kg
606-20-2	2,6-Dinitrotoluene	46.7	U	46.7	240	ug/Kg
99-09-2	3-Nitroaniline	63.9	U	63.9	240	ug/Kg
83-32-9	Acenaphthene	29.6	U	29.6	240	ug/Kg
51-28-5	2,4-Dinitrophenol	320	U	320	460	ug/Kg
100-02-7	4-Nitrophenol	150	U	150	460	ug/Kg
132-64-9	Dibenzofuran	31.5	U	31.5	240	ug/Kg
121-14-2	2,4-Dinitrotoluene	69.6	U	69.6	240	ug/Kg
84-66-2	Diethylphthalate	39.3	U	39.3	240	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	37.1	U	37.1	240	ug/Kg
86-73-7	Fluorene	35.1	U	35.1	240	ug/Kg
100-01-6	4-Nitroaniline	89.1	U	89.1	240	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	140	U	140	460	ug/Kg
86-30-6	n-Nitrosodiphenylamine	45.7	U	45.7	240	ug/Kg
101-55-3	4-Bromophenyl-phenylether	38.6	U	38.6	240	ug/Kg
118-74-1	Hexachlorobenzene	35.1	U	35.1	240	ug/Kg
1912-24-9	Atrazine	47.2	U	47.2	240	ug/Kg
87-86-5	Pentachlorophenol	71.2	U	71.2	460	ug/Kg
85-01-8	Phenanthrene	170	J	29.0	240	ug/Kg
120-12-7	Anthracene	46.2	U	46.2	240	ug/Kg
86-74-8	Carbazole	43.3	U	43.3	240	ug/Kg
84-74-2	Di-n-butylphthalate	66.5	U	66.5	240	ug/Kg
206-44-0	Fluoranthene	180	J	41.7	240	ug/Kg
129-00-0	Pyrene	130	J	50.0	240	ug/Kg
85-68-7	Butylbenzylphthalate	99.1	U	99.1	240	ug/Kg
91-94-1	3,3-Dichlorobenzidine	51.0	U	51.0	460	ug/Kg
56-55-3	Benzo(a)anthracene	31.9	U	31.9	240	ug/Kg
218-01-9	Chrysene	27.6	U	27.6	240	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	82.2	U	82.2	240	ug/Kg
117-84-0	Di-n-octyl phthalate	120	U	120	460	ug/Kg
205-99-2	Benzo(b)fluoranthene	26.4	U	26.4	240	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	05/31/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	06/03/25
Client Sample ID:	B-202-SB02	SDG No.:	Q2198
Lab Sample ID:	Q2198-01	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	71.9
Sample Wt/Vol:	30.05 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142651.D	1	06/05/25 09:40	06/06/25 17:31	PB168300

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	31.1	U	31.1	240	ug/Kg
50-32-8	Benzo(a)pyrene	41.0	U	41.0	240	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	40.4	U	40.4	240	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	38.0	U	38.0	240	ug/Kg
191-24-2	Benzo(g,h,i)perylene	35.7	U	35.7	240	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	35.5	U	35.5	240	ug/Kg
123-91-1	1,4-Dioxane	62.8	U	62.8	240	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	38.0	U	38.0	240	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	79.0		30 (18) - 130 (112)	53%	SPK: 150
13127-88-3	Phenol-d6	80.5		30 (15) - 130 (107)	54%	SPK: 150
4165-60-0	Nitrobenzene-d5	48.2		30 (18) - 130 (107)	48%	SPK: 100
321-60-8	2-Fluorobiphenyl	49.5		30 (20) - 130 (109)	50%	SPK: 100
118-79-6	2,4,6-Tribromophenol	72.6		30 (10) - 130 (116)	48%	SPK: 150
1718-51-0	Terphenyl-d14	39.0		30 (10) - 130 (105)	39%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	123000	6.893			
1146-65-2	Naphthalene-d8	477000	8.175			
15067-26-2	Acenaphthene-d10	249000	9.934			
1517-22-2	Phenanthrene-d10	372000	11.422			
1719-03-5	Chrysene-d12	223000	14.063			
1520-96-3	Perylene-d12	272000	15.557			
TENTATIVE IDENTIFIED COMPOUNDS						
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	300	AB		5.11	ug/Kg
000119-61-9	Benzophenone	430	J		10.6	ug/Kg
000057-10-3	n-Hexadecanoic acid	140	J		11.9	ug/Kg
006222-03-3	Trifluoroacetoxy hexadecane	170	J		13.9	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	05/31/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	06/03/25
Client Sample ID:	B-202-SB02	SDG No.:	Q2198
Lab Sample ID:	Q2198-01	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	71.9
Sample Wt/Vol:	30.05 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142651.D	1	06/05/25 09:40	06/06/25 17:31	PB168300

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	06/01/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	06/03/25
Client Sample ID:	B-207-SB02	SDG No.:	Q2198
Lab Sample ID:	Q2198-03	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	52.1
Sample Wt/Vol:	30.09 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP024919.D	1	06/05/25 09:40	06/11/25 19:49	PB168300

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	300	U	300	630	ug/Kg
108-95-2	Phenol	42.3	U	42.3	330	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	46.5	U	46.5	330	ug/Kg
95-57-8	2-Chlorophenol	46.7	U	46.7	330	ug/Kg
95-48-7	2-Methylphenol	57.2	U	57.2	330	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	71.8	U	71.8	330	ug/Kg
98-86-2	Acetophenone	56.5	U	56.5	330	ug/Kg
65794-96-9	3+4-Methylphenols	78.7	U	78.7	630	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	90.7	U	90.7	150	ug/Kg
67-72-1	Hexachloroethane	33.7	U	33.7	330	ug/Kg
98-95-3	Nitrobenzene	35.0	U	35.0	330	ug/Kg
78-59-1	Isophorone	62.8	U	62.8	330	ug/Kg
88-75-5	2-Nitrophenol	110	U	110	330	ug/Kg
105-67-9	2,4-Dimethylphenol	120	U	120	330	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	58.9	U	58.9	330	ug/Kg
120-83-2	2,4-Dichlorophenol	54.2	U	54.2	330	ug/Kg
91-20-3	Naphthalene	43.4	U	43.4	330	ug/Kg
106-47-8	4-Chloroaniline	67.7	UQ	67.7	330	ug/Kg
87-68-3	Hexachlorobutadiene	48.4	U	48.4	330	ug/Kg
105-60-2	Caprolactam	99.7	U	99.7	630	ug/Kg
59-50-7	4-Chloro-3-methylphenol	54.9	U	54.9	330	ug/Kg
91-57-6	2-Methylnaphthalene	49.0	U	49.0	330	ug/Kg
77-47-4	Hexachlorocyclopentadiene	220	U	220	630	ug/Kg
88-06-2	2,4,6-Trichlorophenol	37.9	U	37.9	330	ug/Kg
95-95-4	2,4,5-Trichlorophenol	55.7	U	55.7	330	ug/Kg
92-52-4	1,1-Biphenyl	41.7	U	41.7	330	ug/Kg
91-58-7	2-Chloronaphthalene	43.1	U	43.1	330	ug/Kg
88-74-4	2-Nitroaniline	92.0	U	92.0	330	ug/Kg
131-11-3	Dimethylphthalate	51.9	U	51.9	330	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	06/01/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	06/03/25
Client Sample ID:	B-207-SB02	SDG No.:	Q2198
Lab Sample ID:	Q2198-03	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	52.1
Sample Wt/Vol:	30.09 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP024919.D	1	06/05/25 09:40	06/11/25 19:49	PB168300

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	55.3	U	55.3	330	ug/Kg
606-20-2	2,6-Dinitrotoluene	64.3	U	64.3	330	ug/Kg
99-09-2	3-Nitroaniline	88.0	U	88.0	330	ug/Kg
83-32-9	Acenaphthene	40.8	U	40.8	330	ug/Kg
51-28-5	2,4-Dinitrophenol	440	U	440	630	ug/Kg
100-02-7	4-Nitrophenol	200	U	200	630	ug/Kg
132-64-9	Dibenzofuran	43.4	U	43.4	330	ug/Kg
121-14-2	2,4-Dinitrotoluene	95.9	U	95.9	330	ug/Kg
84-66-2	Diethylphthalate	54.2	U	54.2	330	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	51.1	U	51.1	330	ug/Kg
86-73-7	Fluorene	48.4	U	48.4	330	ug/Kg
100-01-6	4-Nitroaniline	120	U	120	330	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	200	U	200	630	ug/Kg
86-30-6	n-Nitrosodiphenylamine	63.0	U	63.0	330	ug/Kg
101-55-3	4-Bromophenyl-phenylether	53.2	U	53.2	330	ug/Kg
118-74-1	Hexachlorobenzene	48.4	U	48.4	330	ug/Kg
1912-24-9	Atrazine	65.1	U	65.1	330	ug/Kg
87-86-5	Pentachlorophenol	98.2	U	98.2	630	ug/Kg
85-01-8	Phenanthrene	340		40.0	330	ug/Kg
120-12-7	Anthracene	63.7	U	63.7	330	ug/Kg
86-74-8	Carbazole	59.7	U	59.7	330	ug/Kg
84-74-2	Di-n-butylphthalate	91.7	U	91.7	330	ug/Kg
206-44-0	Fluoranthene	400		57.4	330	ug/Kg
129-00-0	Pyrene	320	J	68.9	330	ug/Kg
85-68-7	Butylbenzylphthalate	140	U	140	330	ug/Kg
91-94-1	3,3-Dichlorobenzidine	70.2	U	70.2	630	ug/Kg
56-55-3	Benzo(a)anthracene	140	J	44.0	330	ug/Kg
218-01-9	Chrysene	140	J	38.1	330	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	110	U	110	330	ug/Kg
117-84-0	Di-n-octyl phthalate	170	U	170	630	ug/Kg
205-99-2	Benzo(b)fluoranthene	160	J	36.4	330	ug/Kg

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Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	06/01/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	06/03/25
Client Sample ID:	B-207-SB02	SDG No.:	Q2198
Lab Sample ID:	Q2198-03	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	52.1
Sample Wt/Vol:	30.09 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP024919.D	1	06/05/25 09:40	06/11/25 19:49	PB168300

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	42.9	U	42.9	330	ug/Kg
50-32-8	Benzo(a)pyrene	130	J	56.5	330	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	55.7	U	55.7	330	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	52.4	U	52.4	330	ug/Kg
191-24-2	Benzo(g,h,i)perylene	49.2	U	49.2	330	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	49.0	U	49.0	330	ug/Kg
123-91-1	1,4-Dioxane	86.5	U	86.5	330	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	52.4	U	52.4	330	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	72.5		30 (18) - 130 (112)	48%	SPK: 150
13127-88-3	Phenol-d6	71.4		30 (15) - 130 (107)	48%	SPK: 150
4165-60-0	Nitrobenzene-d5	44.3		30 (18) - 130 (107)	44%	SPK: 100
321-60-8	2-Fluorobiphenyl	40.0		30 (20) - 130 (109)	40%	SPK: 100
118-79-6	2,4,6-Tribromophenol	80.7		30 (10) - 130 (116)	54%	SPK: 150
1718-51-0	Terphenyl-d14	33.0		30 (10) - 130 (105)	33%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	281000	7.608			
1146-65-2	Naphthalene-d8	1090000	10.384			
15067-26-2	Acenaphthene-d10	644000	14.26			
1517-22-2	Phenanthrene-d10	1240000	17.06			
1719-03-5	Chrysene-d12	1500000	21.495			
1520-96-3	Perylene-d12	1860000	24.766			
TENTATIVE IDENTIFIED COMPOUNDS						
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	290	AB		4.77	ug/Kg
000469-61-4	1H-3a,7-Methanoazulene, 2,3,4,7,8,	140	J		13.6	ug/Kg
000119-61-9	Benzophenone	640	J		15.6	ug/Kg
000057-10-3	n-Hexadecanoic acid	330	J		18.0	ug/Kg
000511-15-9	2-Phenanthrenol, 4b,5,6,7,8,8a,9,1	460	J		20.5	ug/Kg
116196-83-9	4,4-Bis(tetrahydrothiopyran)	490	J		20.5	ug/Kg
000295-65-8	Cyclohexadecane	500	J		21.2	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	06/01/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	06/03/25
Client Sample ID:	B-207-SB02	SDG No.:	Q2198
Lab Sample ID:	Q2198-03	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	52.1
Sample Wt/Vol:	30.09 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP024919.D	1	06/05/25 09:40	06/11/25 19:49	PB168300

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	05/31/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	06/03/25
Client Sample ID:	B-202-GW01	SDG No.:	Q2198
Lab Sample ID:	Q2198-05	Matrix:	Water
Analytical Method:	8270E	% Solid:	0
Sample Wt/Vol:	990 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142653.D	1	06/04/25 11:45	06/06/25 18:31	PB168285

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	3.90	U	3.90	10.1	ug/L
108-95-2	Phenol	0.92	U	0.92	5.10	ug/L
111-44-4	bis(2-Chloroethyl)ether	0.82	U	0.82	5.10	ug/L
95-57-8	2-Chlorophenol	0.59	U	0.59	5.10	ug/L
95-48-7	2-Methylphenol	1.10	U	1.10	5.10	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	1.30	U	1.30	5.10	ug/L
98-86-2	Acetophenone	0.75	U	0.75	5.10	ug/L
65794-96-9	3+4-Methylphenols	1.10	U	1.10	10.1	ug/L
621-64-7	n-Nitroso-di-n-propylamine	1.40	U	1.40	2.50	ug/L
67-72-1	Hexachloroethane	0.66	U	0.66	5.10	ug/L
98-95-3	Nitrobenzene	0.77	U	0.77	5.10	ug/L
78-59-1	Isophorone	0.76	U	0.76	5.10	ug/L
88-75-5	2-Nitrophenol	1.80	U	1.80	5.10	ug/L
105-67-9	2,4-Dimethylphenol	1.90	U	1.90	5.10	ug/L
111-91-1	bis(2-Chloroethoxy)methane	0.69	U	0.69	5.10	ug/L
120-83-2	2,4-Dichlorophenol	0.53	U	0.53	5.10	ug/L
91-20-3	Naphthalene	0.51	U	0.51	5.10	ug/L
106-47-8	4-Chloroaniline	0.85	UQ	0.85	5.10	ug/L
87-68-3	Hexachlorobutadiene	0.55	U	0.55	5.10	ug/L
105-60-2	Caprolactam	1.10	U	1.10	10.1	ug/L
59-50-7	4-Chloro-3-methylphenol	0.60	U	0.60	5.10	ug/L
91-57-6	2-Methylnaphthalene	0.57	U	0.57	5.10	ug/L
77-47-4	Hexachlorocyclopentadiene	3.70	U	3.70	10.1	ug/L
88-06-2	2,4,6-Trichlorophenol	0.52	U	0.52	5.10	ug/L
95-95-4	2,4,5-Trichlorophenol	0.63	U	0.63	5.10	ug/L
92-52-4	1,1-Biphenyl	0.54	U	0.54	5.10	ug/L
91-58-7	2-Chloronaphthalene	0.62	U	0.62	5.10	ug/L
88-74-4	2-Nitroaniline	1.30	U	1.30	5.10	ug/L
131-11-3	Dimethylphthalate	0.62	U	0.62	5.10	ug/L

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	05/31/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	06/03/25
Client Sample ID:	B-202-GW01	SDG No.:	Q2198
Lab Sample ID:	Q2198-05	Matrix:	Water
Analytical Method:	8270E	% Solid:	0
Sample Wt/Vol:	990 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142653.D	1	06/04/25 11:45	06/06/25 18:31	PB168285

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
208-96-8	Acenaphthylene	0.76	U	0.76	5.10	ug/L
606-20-2	2,6-Dinitrotoluene	0.93	U	0.93	5.10	ug/L
99-09-2	3-Nitroaniline	1.10	UQ	1.10	5.10	ug/L
83-32-9	Acenaphthene	0.56	U	0.56	5.10	ug/L
51-28-5	2,4-Dinitrophenol	6.00	U	6.00	10.1	ug/L
100-02-7	4-Nitrophenol	2.40	U	2.40	10.1	ug/L
132-64-9	Dibenzofuran	0.62	U	0.62	5.10	ug/L
121-14-2	2,4-Dinitrotoluene	1.20	U	1.20	5.10	ug/L
84-66-2	Diethylphthalate	0.70	U	0.70	5.10	ug/L
7005-72-3	4-Chlorophenyl-phenylether	0.69	U	0.69	5.10	ug/L
86-73-7	Fluorene	0.64	U	0.64	5.10	ug/L
100-01-6	4-Nitroaniline	1.50	U	1.50	5.10	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	2.90	U	2.90	10.1	ug/L
86-30-6	n-Nitrosodiphenylamine	0.59	U	0.59	5.10	ug/L
101-55-3	4-Bromophenyl-phenylether	0.40	U	0.40	5.10	ug/L
118-74-1	Hexachlorobenzene	0.53	U	0.53	5.10	ug/L
1912-24-9	Atrazine	1.00	U	1.00	5.10	ug/L
87-86-5	Pentachlorophenol	1.60	U	1.60	10.1	ug/L
85-01-8	Phenanthrene	0.51	U	0.51	5.10	ug/L
120-12-7	Anthracene	0.62	U	0.62	5.10	ug/L
86-74-8	Carbazole	0.73	U	0.73	5.10	ug/L
84-74-2	Di-n-butylphthalate	1.20	U	1.20	5.10	ug/L
206-44-0	Fluoranthene	0.83	U	0.83	5.10	ug/L
129-00-0	Pyrene	0.51	U	0.51	5.10	ug/L
85-68-7	Butylbenzylphthalate	1.90	U	1.90	5.10	ug/L
91-94-1	3,3-Dichlorobenzidine	0.94	UQ	0.94	10.1	ug/L
56-55-3	Benzo(a)anthracene	0.45	U	0.45	5.10	ug/L
218-01-9	Chrysene	0.44	U	0.44	5.10	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	1.60	U	1.60	5.10	ug/L
117-84-0	Di-n-octyl phthalate	2.40	U	2.40	10.1	ug/L
205-99-2	Benzo(b)fluoranthene	0.49	U	0.49	5.10	ug/L

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	05/31/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	06/03/25
Client Sample ID:	B-202-GW01	SDG No.:	Q2198
Lab Sample ID:	Q2198-05	Matrix:	Water
Analytical Method:	8270E	% Solid:	0
Sample Wt/Vol:	990 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142653.D	1	06/04/25 11:45	06/06/25 18:31	PB168285

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
207-08-9	Benzo(k)fluoranthene	0.48	U	0.48	5.10	ug/L
50-32-8	Benzo(a)pyrene	0.56	U	0.56	5.10	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.60	U	0.60	5.10	ug/L
53-70-3	Dibenzo(a,h)anthracene	0.68	U	0.68	5.10	ug/L
191-24-2	Benzo(g,h,i)perylene	0.70	U	0.70	5.10	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	0.53	U	0.53	5.10	ug/L
123-91-1	1,4-Dioxane	1.00	U	1.00	5.10	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	0.73	U	0.73	5.10	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	61.0		15 (23) - 110 (138)	41%	SPK: 150
13127-88-3	Phenol-d6	43.3		15 (10) - 110 (134)	29%	SPK: 150
4165-60-0	Nitrobenzene-d5	63.6		30 (67) - 130 (132)	64%	SPK: 100
321-60-8	2-Fluorobiphenyl	62.6		30 (52) - 130 (132)	63%	SPK: 100
118-79-6	2,4,6-Tribromophenol	92.1		15 (44) - 110 (137)	61%	SPK: 150
1718-51-0	Terphenyl-d14	50.3		30 (42) - 130 (152)	50%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	128000	6.892			
1146-65-2	Naphthalene-d8	474000	8.175			
15067-26-2	Acenaphthene-d10	251000	9.933			
1517-22-2	Phenanthrene-d10	369000	11.422			
1719-03-5	Chrysene-d12	238000	14.063			
1520-96-3	Perylene-d12	278000	15.562			
TENTATIVE IDENTIFIED COMPOUNDS						
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	5.30	AB		5.10	ug/L
000119-61-9	Benzophenone	7.00	J		10.6	ug/L
000947-19-3	Methanone, (1-hydroxycyclohexyl)ph	2.10	J		11.0	ug/L
000057-10-3	n-Hexadecanoic acid	12.9	J		11.9	ug/L
000057-11-4	Octadecanoic acid	3.40	J		12.7	ug/L
015594-90-8	1-Heneicosanol	12.7	J		13.9	ug/L
000593-08-8	2-Tridecanone	7.40	J		14.7	ug/L

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	05/31/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	06/03/25
Client Sample ID:	B-202-GW01	SDG No.:	Q2198
Lab Sample ID:	Q2198-05	Matrix:	Water
Analytical Method:	8270E	% Solid:	0
Sample Wt/Vol:	990 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142653.D	1	06/04/25 11:45	06/06/25 18:31	PB168285

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
	unknown17.404	2.40	J		17.4	ug/L

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

QC SUMMARY

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Surrogate Summary

SW-846

SDG No.: Q2198

Client: Portal Partners Tri-Venture

Analytical Method: 8270E

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
PB168285BL	PB168285BL	2-Fluorophenol	150	125	83		15 (23)	110 (138)
		Phenol-d6	150	124	83		15 (10)	110 (134)
		Nitrobenzene-d5	100	78.6	79		30 (67)	130 (132)
		2-Fluorobiphenyl	100	75.2	75		30 (52)	130 (132)
		2,4,6-Tribromophenol	150	122	82		15 (44)	110 (137)
		Terphenyl-d14	100	78.1	78		30 (42)	130 (152)
PB168285BS	PB168285BS	2-Fluorophenol	150	126	84		15 (23)	110 (138)
		Phenol-d6	150	127	85		15 (10)	110 (134)
		Nitrobenzene-d5	100	77.8	78		30 (67)	130 (132)
		2-Fluorobiphenyl	100	76.2	76		30 (52)	130 (132)
		2,4,6-Tribromophenol	150	129	86		15 (44)	110 (137)
		Terphenyl-d14	100	81.8	82		30 (42)	130 (152)
PB168285BSD	PB168285BSD	2-Fluorophenol	150	125	83		15 (23)	110 (138)
		Phenol-d6	150	127	84		15 (10)	110 (134)
		Nitrobenzene-d5	100	79.4	79		30 (67)	130 (132)
		2-Fluorobiphenyl	100	77.6	78		30 (52)	130 (132)
		2,4,6-Tribromophenol	150	129	86		15 (44)	110 (137)
		Terphenyl-d14	100	79.2	79		30 (42)	130 (152)
Q2198-05	B-202-GW01	2-Fluorophenol	150	61.0	41		15 (23)	110 (138)
		Phenol-d6	150	43.3	29		15 (10)	110 (134)
		Nitrobenzene-d5	100	63.6	64		30 (67)	130 (132)
		2-Fluorobiphenyl	100	62.6	63		30 (52)	130 (132)
		2,4,6-Tribromophenol	150	92.1	61		15 (44)	110 (137)
		Terphenyl-d14	100	50.3	50		30 (42)	130 (152)

( ) = LABORATORY INHOUSE LIMIT

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Surrogate Summary

SW-846

SDG No.: Q2198

Client: Portal Partners Tri-Venture

Analytical Method: 8270E

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
PB168300BL	PB168300BL	2-Fluorophenol	150	134	89		30 (18)	130 (112)
		Phenol-d6	150	125	84		30 (15)	130 (107)
		Nitrobenzene-d5	100	79.1	79		30 (18)	130 (107)
		2-Fluorobiphenyl	100	76.6	77		30 (20)	130 (109)
		2,4,6-Tribromophenol	150	140	93		30 (10)	130 (116)
		Terphenyl-d14	100	79.1	79		30 (10)	130 (105)
PB168300BS	PB168300BS	2-Fluorophenol	150	130	87		30 (18)	130 (112)
		Phenol-d6	150	125	83		30 (15)	130 (107)
		Nitrobenzene-d5	100	75.1	75		30 (18)	130 (107)
		2-Fluorobiphenyl	100	75.5	76		30 (20)	130 (109)
		2,4,6-Tribromophenol	150	138	92		30 (10)	130 (116)
		Terphenyl-d14	100	81.4	81		30 (10)	130 (105)
Q2198-01	B-202-SB02	2-Fluorophenol	150	79.0	53		30 (18)	130 (112)
		Phenol-d6	150	80.5	54		30 (15)	130 (107)
		Nitrobenzene-d5	100	48.2	48		30 (18)	130 (107)
		2-Fluorobiphenyl	100	49.5	50		30 (20)	130 (109)
		2,4,6-Tribromophenol	150	72.6	48		30 (10)	130 (116)
		Terphenyl-d14	100	39.0	39		30 (10)	130 (105)
Q2198-03	B-207-SB02	2-Fluorophenol	150	72.5	48		30 (18)	130 (112)
		Phenol-d6	150	71.4	48		30 (15)	130 (107)
		Nitrobenzene-d5	100	44.3	44		30 (18)	130 (107)
		2-Fluorobiphenyl	100	40.0	40		30 (20)	130 (109)
		2,4,6-Tribromophenol	150	80.7	54		30 (10)	130 (116)
		Terphenyl-d14	100	33.0	33		30 (10)	130 (105)
Q2207-37MS	BU-703-COMP-05MS	2-Fluorophenol	150	71.5	48		30 (18)	130 (112)
		Phenol-d6	150	81.3	54		30 (15)	130 (107)
		Nitrobenzene-d5	100	40.9	41		30 (18)	130 (107)
		2-Fluorobiphenyl	100	36.2	36		30 (20)	130 (109)
		2,4,6-Tribromophenol	150	76.7	51		30 (10)	130 (116)
		Terphenyl-d14	100	37.9	38		30 (10)	130 (105)
Q2207-37MSD	BU-703-COMP-05MSD	2-Fluorophenol	150	74.9	50		30 (18)	130 (112)
		Phenol-d6	150	85.4	57		30 (15)	130 (107)
		Nitrobenzene-d5	100	41.4	41		30 (18)	130 (107)
		2-Fluorobiphenyl	100	37.5	38		30 (20)	130 (109)
		2,4,6-Tribromophenol	150	83.1	55		30 (10)	130 (116)
		Terphenyl-d14	100	43.4	43		30 (10)	130 (105)

( ) = LABORATORY INHOUSE LIMIT

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q2198

Client: Portal Partners Tri-Venture

Analytical Method: SW8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Lab Sample ID: Q2207-37MS		**Client Sample ID: BU-703-COMP-05MS**						**DataFile: BF142644.D**			
Benzaldehyde	1300	0	860	ug/Kg	66				20 (10)	160 (171)	
Phenol	1300	0	1100	ug/Kg	85				20 (51)	160 (122)	
bis(2-Chloroethyl)ether	1300	0	1100	ug/Kg	85				70 (54)	130 (125)	
2-Chlorophenol	1300	0	1100	ug/Kg	85				70 (51)	130 (121)	
2-Methylphenol	1300	0	1000	ug/Kg	77				70 (47)	130 (125)	
2,2-oxybis(1-Chloropropane)	1300	0	1100	ug/Kg	85				70 (46)	130 (119)	
Acetophenone	1300	0	1100	ug/Kg	85				70 (55)	130 (128)	
3+4-Methylphenols	1300	0	990	ug/Kg	76				20 (49)	160 (125)	
N-Nitroso-di-n-propylamine	1300	0	970	ug/Kg	75				70 (59)	130 (119)	
Hexachloroethane	1300	0	1100	ug/Kg	85				20 (51)	160 (116)	
Nitrobenzene	1300	0	1100	ug/Kg	85				70 (47)	130 (124)	
Isophorone	1300	0	1000	ug/Kg	77				70 (49)	130 (127)	
2-Nitrophenol	1300	0	1200	ug/Kg	92				70 (43)	130 (131)	
2,4-Dimethylphenol	1300	0	1100	ug/Kg	85				70 (63)	130 (151)	
bis(2-Chloroethoxy)methane	1300	0	1100	ug/Kg	85				70 (51)	130 (119)	
2,4-Dichlorophenol	1300	0	1100	ug/Kg	85				70 (50)	130 (122)	
Naphthalene	1300	0	1100	ug/Kg	85				70 (51)	130 (121)	
4-Chloroaniline	1300	0	700	ug/Kg	54	*			70 (10)	130 (100)	
Hexachlorobutadiene	1300	0	1100	ug/Kg	85				70 (44)	130 (126)	
Caprolactam	1300	0	1100	ug/Kg	85				20 (51)	160 (134)	
4-Chloro-3-methylphenol	1300	0	1000	ug/Kg	77				70 (57)	130 (132)	
2-Methylnaphthalene	1300	0	1100	ug/Kg	85				70 (59)	130 (123)	
Hexachlorocyclopentadiene	2700	0	2100	ug/Kg	78				20 (10)	160 (175)	
2,4,6-Trichlorophenol	1300	0	1100	ug/Kg	85				70 (33)	130 (141)	
2,4,5-Trichlorophenol	1300	0	1100	ug/Kg	85				70 (38)	130 (135)	
1,1-Biphenyl	1300	0	1100	ug/Kg	85				70 (55)	130 (131)	
2-Chloronaphthalene	1300	0	1100	ug/Kg	85				70 (48)	130 (124)	
2-Nitroaniline	1300	0	1100	ug/Kg	85				70 (47)	130 (134)	
Dimethylphthalate	1300	0	1000	ug/Kg	77				70 (54)	130 (120)	
Acenaphthylene	1300	0	1100	ug/Kg	85				70 (57)	130 (125)	
2,6-Dinitrotoluene	1300	0	1100	ug/Kg	85				70 (48)	130 (127)	
3-Nitroaniline	1300	0	750	ug/Kg	58	*			70 (10)	130 (112)	
Acenaphthene	1300	0	1200	ug/Kg	92				70 (70)	130 (121)	
2,4-Dinitrophenol	2700	0	2200	ug/Kg	81				20 (10)	160 (155)	
4-Nitrophenol	2700	0	2100	ug/Kg	78				20 (10)	160 (175)	
Dibenzofuran	1300	0	1100	ug/Kg	85				70 (52)	130 (114)	
2,4-Dinitrotoluene	1300	0	1100	ug/Kg	85				70 (41)	130 (140)	
Diethylphthalate	1300	0	1000	ug/Kg	77				70 (51)	130 (119)	
4-Chlorophenyl-phenylether	1300	0	1000	ug/Kg	77				70 (48)	130 (122)	
Fluorene	1300	0	1000	ug/Kg	77				70 (53)	130 (118)	
4-Nitroaniline	1300	0	1000	ug/Kg	77				70 (29)	130 (140)	
4,6-Dinitro-2-methylphenol	1300	0	1200	ug/Kg	92				70 (10)	130 (160)	
N-Nitrosodiphenylamine	1300	0	1100	ug/Kg	85				70 (73)	130 (118)	
4-Bromophenyl-phenylether	1300	0	1100	ug/Kg	85				70 (65)	130 (121)	
Hexachlorobenzene	1300	0	1100	ug/Kg	85				70 (67)	130 (118)	
Atrazine	1300	0	1200	ug/Kg	92				70 (45)	130 (175)	

( ) = LABORATORY INHOUSE LIMIT

Alliance TECHNICAL GROUP
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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q2198

Client: Portal Partners Tri-Venture

Analytical Method: SW8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Pentachlorophenol	2700	0	2100	ug/Kg	78				20 (13)	160 (153)	
Phenanthrene	1300	0	1100	ug/Kg	85				70 (52)	130 (128)	
Anthracene	1300	0	1100	ug/Kg	85				70 (62)	130 (124)	
Carbazole	1300	0	1100	ug/Kg	85				70 (59)	130 (119)	
Di-n-butylphthalate	1300	0	1100	ug/Kg	85				70 (55)	130 (125)	
Fluoranthene	1300	0	1100	ug/Kg	85				70 (44)	130 (125)	
Pyrene	1300	0	860	ug/Kg	66	*			70 (37)	130 (122)	
Butylbenzylphthalate	1300	0	1200	ug/Kg	92				70 (44)	130 (135)	
3,3-Dichlorobenzidine	1300	0	730	ug/Kg	56	*			70 (15)	130 (112)	
Benzo(a)anthracene	1300	0	1100	ug/Kg	85				70 (53)	130 (119)	
Chrysene	1300	0	1100	ug/Kg	85				70 (57)	130 (121)	
bis(2-Ethylhexyl)phthalate	1300	0	1200	ug/Kg	92				70 (42)	130 (169)	
Di-n-octyl phthalate	1300	0	1200	ug/Kg	92				70 (51)	130 (156)	
Benzo(b)fluoranthene	1300	0	1100	ug/Kg	85				70 (52)	130 (117)	
Benzo(k)fluoranthene	1300	0	1000	ug/Kg	77				70 (57)	130 (134)	
Benzo(a)pyrene	1300	0	1100	ug/Kg	85				70 (70)	130 (142)	
Indeno(1,2,3-cd)pyrene	1300	0	980	ug/Kg	75				70 (40)	130 (129)	
Dibenz(a,h)anthracene	1300	0	980	ug/Kg	75				70 (43)	130 (123)	
Benzo(g,h,i)perylene	1300	0	940	ug/Kg	72				70 (24)	130 (125)	
1,2,4,5-Tetrachlorobenzene	1300	0	1200	ug/Kg	92				70 (52)	130 (134)	
1,4-Dioxane	1300	0	1100	ug/Kg	85				20 (46)	160 (112)	
2,3,4,6-Tetrachlorophenol	1300	0	1000	ug/Kg	77				70 (24)	130 (146)	

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q2198

Client: Portal Partners Tri-Venture

Analytical Method: SW8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Lab Sample ID: Q2207-37MSD		**Client Sample ID:** BU-703-COMP-05MSD						**DataFile:** BF142645.D			
Benzaldehyde	1300	0	910	ug/Kg	70		6		20 (10)	160 (171)	30 (20)
Phenol	1300	0	1100	ug/Kg	85		0		20 (51)	160 (122)	30 (20)
bis(2-Chloroethyl)ether	1300	0	1100	ug/Kg	85		0		70 (54)	130 (125)	30 (20)
2-Chlorophenol	1300	0	1100	ug/Kg	85		0		70 (51)	130 (121)	30 (20)
2-Methylphenol	1300	0	1100	ug/Kg	85		10		70 (47)	130 (125)	30 (20)
2,2-oxybis(1-Chloropropane)	1300	0	1100	ug/Kg	85		0		70 (46)	130 (119)	30 (20)
Acetophenone	1300	0	1100	ug/Kg	85		0		70 (55)	130 (128)	30 (20)
3+4-Methylphenols	1300	0	1000	ug/Kg	77		1		20 (49)	160 (125)	30 (20)
N-Nitroso-di-n-propylamine	1300	0	1000	ug/Kg	77		3		70 (59)	130 (119)	30 (20)
Hexachloroethane	1300	0	1100	ug/Kg	85		0		20 (51)	160 (116)	30 (20)
Nitrobenzene	1300	0	1100	ug/Kg	85		0		70 (47)	130 (124)	30 (20)
Isophorone	1300	0	1100	ug/Kg	85		10		70 (49)	130 (127)	30 (20)
2-Nitrophenol	1300	0	1200	ug/Kg	92		0		70 (43)	130 (131)	30 (20)
2,4-Dimethylphenol	1300	0	1100	ug/Kg	85		0		70 (63)	130 (151)	30 (20)
bis(2-Chloroethoxy)methane	1300	0	1100	ug/Kg	85		0		70 (51)	130 (119)	30 (20)
2,4-Dichlorophenol	1300	0	1100	ug/Kg	85		0		70 (50)	130 (122)	30 (20)
Naphthalene	1300	0	1100	ug/Kg	85		0		70 (51)	130 (121)	30 (20)
4-Chloroaniline	1300	0	690	ug/Kg	53	*	2		70 (10)	130 (100)	30 (20)
Hexachlorobutadiene	1300	0	1100	ug/Kg	85		0		70 (44)	130 (126)	30 (20)
Caprolactam	1300	0	1200	ug/Kg	92		8		20 (51)	160 (134)	30 (20)
4-Chloro-3-methylphenol	1300	0	1100	ug/Kg	85		10		70 (57)	130 (132)	30 (20)
2-Methylnaphthalene	1300	0	1100	ug/Kg	85		0		70 (59)	130 (123)	30 (20)
Hexachlorocyclopentadiene	2700	0	2200	ug/Kg	81		4		20 (10)	160 (175)	30 (20)
2,4,6-Trichlorophenol	1300	0	1100	ug/Kg	85		0		70 (33)	130 (141)	30 (20)
2,4,5-Trichlorophenol	1300	0	1200	ug/Kg	92		8		70 (38)	130 (135)	30 (20)
1,1-Biphenyl	1300	0	1200	ug/Kg	92		8		70 (55)	130 (131)	30 (20)
2-Chloronaphthalene	1300	0	1200	ug/Kg	92		8		70 (48)	130 (124)	30 (20)
2-Nitroaniline	1300	0	1100	ug/Kg	85		0		70 (47)	130 (134)	30 (20)
Dimethylphthalate	1300	0	1100	ug/Kg	85		10		70 (54)	130 (120)	30 (20)
Acenaphthylene	1300	0	1100	ug/Kg	85		0		70 (57)	130 (125)	30 (20)
2,6-Dinitrotoluene	1300	0	1100	ug/Kg	85		0		70 (48)	130 (127)	30 (20)
3-Nitroaniline	1300	0	780	ug/Kg	60	*	3		70 (10)	130 (112)	30 (20)
Acenaphthene	1300	0	1200	ug/Kg	92		0		70 (70)	130 (121)	30 (20)
2,4-Dinitrophenol	2700	0	2300	ug/Kg	85		5		20 (10)	160 (155)	30 (20)
4-Nitrophenol	2700	0	2200	ug/Kg	81		4		20 (10)	160 (175)	30 (20)
Dibenzofuran	1300	0	1100	ug/Kg	85		0		70 (52)	130 (114)	30 (20)
2,4-Dinitrotoluene	1300	0	1200	ug/Kg	92		8		70 (41)	130 (140)	30 (20)
Diethylphthalate	1300	0	1100	ug/Kg	85		10		70 (51)	130 (119)	30 (20)
4-Chlorophenyl-phenylether	1300	0	1100	ug/Kg	85		10		70 (48)	130 (122)	30 (20)
Fluorene	1300	0	1100	ug/Kg	85		10		70 (53)	130 (118)	30 (20)
4-Nitroaniline	1300	0	1100	ug/Kg	85		10		70 (29)	130 (140)	30 (20)
4,6-Dinitro-2-methylphenol	1300	0	1300	ug/Kg	100		8		70 (10)	130 (160)	30 (20)
N-Nitrosodiphenylamine	1300	0	1200	ug/Kg	92		8		70 (73)	130 (118)	30 (20)
4-Bromophenyl-phenylether	1300	0	1200	ug/Kg	92		8		70 (65)	130 (121)	30 (20)
Hexachlorobenzene	1300	0	1200	ug/Kg	92		8		70 (67)	130 (118)	30 (20)
Atrazine	1300	0	1300	ug/Kg	100		8		70 (45)	130 (175)	30 (20)

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q2198

Client: Portal Partners Tri-Venture

Analytical Method: SW8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	Limits RPD
Pentachlorophenol	2700	0	2200	ug/Kg	81		4		20 (13)	160 (153)	30 (20)
Phenanthrene	1300	0	1100	ug/Kg	85		0		70 (52)	130 (128)	30 (20)
Anthracene	1300	0	1100	ug/Kg	85		0		70 (62)	130 (124)	30 (20)
Carbazole	1300	0	1200	ug/Kg	92		8		70 (59)	130 (119)	30 (20)
Di-n-butylphthalate	1300	0	1200	ug/Kg	92		8		70 (55)	130 (125)	30 (20)
Fluoranthene	1300	0	1100	ug/Kg	85		0		70 (44)	130 (125)	30 (20)
Pyrene	1300	0	970	ug/Kg	75		13		70 (37)	130 (122)	30 (20)
Butylbenzylphthalate	1300	0	1300	ug/Kg	100		8		70 (44)	130 (135)	30 (20)
3,3-Dichlorobenzidine	1300	0	760	ug/Kg	58	*	4		70 (15)	130 (112)	30 (20)
Benzo(a)anthracene	1300	0	1100	ug/Kg	85		0		70 (53)	130 (119)	30 (20)
Chrysene	1300	0	1200	ug/Kg	92		8		70 (57)	130 (121)	30 (20)
bis(2-Ethylhexyl)phthalate	1300	0	1300	ug/Kg	100		8		70 (42)	130 (169)	30 (20)
Di-n-octyl phthalate	1300	0	1200	ug/Kg	92		0		70 (51)	130 (156)	30 (20)
Benzo(b)fluoranthene	1300	0	1200	ug/Kg	92		8		70 (52)	130 (117)	30 (20)
Benzo(k)fluoranthene	1300	0	1100	ug/Kg	85		10		70 (57)	130 (134)	30 (20)
Benzo(a)pyrene	1300	0	1200	ug/Kg	92		8		70 (70)	130 (142)	30 (20)
Indeno(1,2,3-cd)pyrene	1300	0	1000	ug/Kg	77		3		70 (40)	130 (129)	30 (20)
Dibenz(a,h)anthracene	1300	0	1000	ug/Kg	77		3		70 (43)	130 (123)	30 (20)
Benzo(g,h,i)perylene	1300	0	990	ug/Kg	76		5		70 (24)	130 (125)	30 (20)
1,2,4,5-Tetrachlorobenzene	1300	0	1200	ug/Kg	92		0		70 (52)	130 (134)	30 (20)
1,4-Dioxane	1300	0	1100	ug/Kg	85		0		20 (46)	160 (112)	30 (20)
2,3,4,6-Tetrachlorophenol	1300	0	1100	ug/Kg	85		10		70 (24)	130 (146)	30 (20)

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2198

Client: Portal Partners Tri-Venture

Analytical Method: 8270E **DataFile:** BF142727.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	Limits RPD
PB168285BS	Benzaldehyde	50	32.2	ug/L	64				20 (10)	160 (162)	
	Phenol	50	44.1	ug/L	88				20 (66)	160 (118)	
	bis(2-Chloroethyl)ether	50	44.2	ug/L	88				70 (62)	130 (103)	
	2-Chlorophenol	50	45.9	ug/L	92				70 (70)	130 (117)	
	2-Methylphenol	50	45.4	ug/L	91				70 (69)	130 (109)	
	2,2-oxybis(1-Chloropropane)	50	43.1	ug/L	86				70 (65)	130 (100)	
	Acetophenone	50	44.3	ug/L	89				70 (60)	130 (104)	
	3+4-Methylphenols	50	45.6	ug/L	91				20 (67)	160 (106)	
	N-Nitroso-di-n-propylamine	50	43.7	ug/L	87				70 (57)	130 (107)	
	Hexachloroethane	50	43.4	ug/L	87				20 (76)	160 (118)	
	Nitrobenzene	50	44.6	ug/L	89				70 (58)	130 (106)	
	Isophorone	50	43.8	ug/L	88				70 (61)	130 (102)	
	2-Nitrophenol	50	46.1	ug/L	92				70 (70)	130 (115)	
	2,4-Dimethylphenol	50	45.3	ug/L	91				70 (42)	130 (142)	
	bis(2-Chloroethoxy)methane	50	44.3	ug/L	89				70 (58)	130 (109)	
	2,4-Dichlorophenol	50	45.4	ug/L	91				70 (66)	130 (115)	
	Naphthalene	50	43.8	ug/L	88				70 (64)	130 (107)	
	4-Chloroaniline	50	14.3	ug/L	29		*		70 (10)	130 (85)	
	Hexachlorobutadiene	50	43.1	ug/L	86				70 (69)	130 (101)	
	Caprolactam	50	50.0	ug/L	100				20 (58)	160 (128)	
	4-Chloro-3-methylphenol	50	44.9	ug/L	90				70 (65)	130 (114)	
	2-Methylnaphthalene	50	43.3	ug/L	87				70 (64)	130 (107)	
	Hexachlorocyclopentadiene	100	90.6	ug/L	91				20 (36)	160 (160)	
	2,4,6-Trichlorophenol	50	46.7	ug/L	93				70 (61)	130 (110)	
	2,4,5-Trichlorophenol	50	44.9	ug/L	90				70 (70)	130 (106)	
	1,1-Biphenyl	50	44.3	ug/L	89				70 (72)	130 (98)	
	2-Chloronaphthalene	50	44.3	ug/L	89				70 (59)	130 (106)	
	2-Nitroaniline	50	45.3	ug/L	91				70 (73)	130 (114)	
	Dimethylphthalate	50	45.8	ug/L	92				70 (64)	130 (103)	
	Acenaphthylene	50	44.7	ug/L	89				70 (79)	130 (103)	
	2,6-Dinitrotoluene	50	46.3	ug/L	93				70 (64)	130 (110)	
	3-Nitroaniline	50	26.2	ug/L	52		*		70 (28)	130 (100)	
	Acenaphthene	50	50.3	ug/L	101				70 (59)	130 (113)	
	2,4-Dinitrophenol	100	110	ug/L	110				20 (36)	160 (166)	
	4-Nitrophenol	100	98.9	ug/L	99				20 (45)	160 (147)	
	Dibenzofuran	50	44.4	ug/L	89				70 (65)	130 (106)	
	2,4-Dinitrotoluene	50	48.0	ug/L	96				70 (60)	130 (115)	
	Diethylphthalate	50	46.4	ug/L	93				70 (63)	130 (105)	
	4-Chlorophenyl-phenylether	50	44.1	ug/L	88				70 (61)	130 (104)	
	Fluorene	50	43.9	ug/L	88				70 (64)	130 (107)	
	4-Nitroaniline	50	47.5	ug/L	95				70 (55)	130 (125)	
	4,6-Dinitro-2-methylphenol	50	48.0	ug/L	96				70 (62)	130 (132)	
	N-Nitrosodiphenylamine	50	44.4	ug/L	89				70 (61)	130 (109)	
	4-Bromophenyl-phenylether	50	43.9	ug/L	88				70 (73)	130 (103)	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2198

Client: Portal Partners Tri-Venture

Analytical Method: 8270E **DataFile:** BF142727.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	Limits RPD
PB168285BS	Hexachlorobenzene	50	44.1	ug/L	88				70 (73)	130 (106)	
	Atrazine	50	50.6	ug/L	101				70 (76)	130 (120)	
	Pentachlorophenol	100	93.6	ug/L	94				20 (47)	160 (114)	
	Phenanthrene	50	44.5	ug/L	89				70 (62)	130 (109)	
	Anthracene	50	44.2	ug/L	88				70 (65)	130 (110)	
	Carbazole	50	45.7	ug/L	91				70 (62)	130 (106)	
	Di-n-butylphthalate	50	49.3	ug/L	99				70 (64)	130 (106)	
	Fluoranthene	50	45.7	ug/L	91				70 (64)	130 (110)	
	Pyrene	50	46.5	ug/L	93				70 (71)	130 (103)	
	Butylbenzylphthalate	50	50.4	ug/L	101				70 (61)	130 (105)	
	3,3-Dichlorobenzidine	50	21.6	ug/L	43		*		70 (43)	130 (108)	
	Benzo(a)anthracene	50	45.7	ug/L	91				70 (62)	130 (107)	
	Chrysene	50	46.7	ug/L	93				70 (61)	130 (108)	
	bis(2-Ethylhexyl)phthalate	50	46.3	ug/L	93				70 (59)	130 (110)	
	Di-n-octyl phthalate	50	44.5	ug/L	89				70 (52)	130 (139)	
	Benzo(b)fluoranthene	50	48.8	ug/L	98				70 (77)	130 (113)	
	Benzo(k)fluoranthene	50	44.1	ug/L	88				70 (77)	130 (105)	
	Benzo(a)pyrene	50	46.7	ug/L	93				70 (72)	130 (131)	
	Indeno(1,2,3-cd)pyrene	50	45.0	ug/L	90				70 (72)	130 (105)	
	Dibenz(a,h)anthracene	50	45.1	ug/L	90				70 (78)	130 (115)	
	Benzo(g,h,i)perylene	50	44.1	ug/L	88				70 (75)	130 (118)	
	1,2,4,5-Tetrachlorobenzene	50	44.7	ug/L	89				70 (72)	130 (101)	
	1,4-Dioxane	50	36.8	ug/L	74				20 (38)	160 (125)	
	2,3,4,6-Tetrachlorophenol	50	46.1	ug/L	92				70 (63)	130 (116)	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2198

Client: Portal Partners Tri-Venture

Analytical Method: 8270E **DataFile:** BF142728.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	Limits RPD
PB168285BSD	Benzaldehyde	50	31.8	ug/L	64	1			20 (10)	160 (162)	20 (20)
	Phenol	50	44.2	ug/L	88	0			20 (66)	160 (118)	20 (20)
	bis(2-Chloroethyl)ether	50	44.3	ug/L	89	0			70 (62)	130 (103)	20 (20)
	2-Chlorophenol	50	45.8	ug/L	92	0			70 (70)	130 (117)	20 (20)
	2-Methylphenol	50	46.2	ug/L	92	2			70 (69)	130 (109)	20 (20)
	2,2-oxybis(1-Chloropropane)	50	42.8	ug/L	86	1			70 (65)	130 (100)	20 (20)
	Acetophenone	50	45.1	ug/L	90	2			70 (60)	130 (104)	20 (20)
	3+4-Methylphenols	50	46.1	ug/L	92	1			20 (67)	160 (106)	20 (20)
	N-Nitroso-di-n-propylamine	50	43.6	ug/L	87	0			70 (57)	130 (107)	20 (20)
	Hexachloroethane	50	43.1	ug/L	86	1			20 (76)	160 (118)	20 (20)
	Nitrobenzene	50	45.4	ug/L	91	2			70 (58)	130 (106)	20 (20)
	Isophorone	50	44.8	ug/L	90	2			70 (61)	130 (102)	20 (20)
	2-Nitrophenol	50	46.5	ug/L	93	1			70 (70)	130 (115)	20 (20)
	2,4-Dimethylphenol	50	46.3	ug/L	93	2			70 (42)	130 (142)	20 (20)
	bis(2-Chloroethoxy)methane	50	45.2	ug/L	90	2			70 (58)	130 (109)	20 (20)
	2,4-Dichlorophenol	50	47.1	ug/L	94	4			70 (66)	130 (115)	20 (20)
	Naphthalene	50	44.8	ug/L	90	2			70 (64)	130 (107)	20 (20)
	4-Chloroaniline	50	14.4	ug/L	29	1	*		70 (10)	130 (85)	20 (20)
	Hexachlorobutadiene	50	43.9	ug/L	88	2			70 (69)	130 (101)	20 (20)
	Caprolactam	50	49.9	ug/L	100	0			20 (58)	160 (128)	20 (20)
	4-Chloro-3-methylphenol	50	45.8	ug/L	92	2			70 (65)	130 (114)	20 (20)
	2-Methylnaphthalene	50	44.9	ug/L	90	4			70 (64)	130 (107)	20 (20)
	Hexachlorocyclopentadiene	100	94.2	ug/L	94	4			20 (36)	160 (160)	20 (20)
	2,4,6-Trichlorophenol	50	47.2	ug/L	94	1			70 (61)	130 (110)	20 (20)
	2,4,5-Trichlorophenol	50	45.9	ug/L	92	2			70 (70)	130 (106)	20 (20)
	1,1-Biphenyl	50	45.0	ug/L	90	2			70 (72)	130 (98)	20 (20)
	2-Chloronaphthalene	50	45.3	ug/L	91	2			70 (59)	130 (106)	20 (20)
	2-Nitroaniline	50	45.4	ug/L	91	0			70 (73)	130 (114)	20 (20)
	Dimethylphthalate	50	46.6	ug/L	93	2			70 (64)	130 (103)	20 (20)
	Acenaphthylene	50	45.4	ug/L	91	2			70 (79)	130 (103)	20 (20)
	2,6-Dinitrotoluene	50	46.1	ug/L	92	0			70 (64)	130 (110)	20 (20)
	3-Nitroaniline	50	25.6	ug/L	51	2	*		70 (28)	130 (100)	20 (20)
	Acenaphthene	50	49.9	ug/L	100	1			70 (59)	130 (113)	20 (20)
	2,4-Dinitrophenol	100	110	ug/L	110	0			20 (36)	160 (166)	20 (20)
	4-Nitrophenol	100	96.9	ug/L	97	2			20 (45)	160 (147)	20 (20)
	Dibenzofuran	50	44.7	ug/L	89	1			70 (65)	130 (106)	20 (20)
	2,4-Dinitrotoluene	50	47.6	ug/L	95	1			70 (60)	130 (115)	20 (20)
	Diethylphthalate	50	46.6	ug/L	93	0			70 (63)	130 (105)	20 (20)
	4-Chlorophenyl-phenylether	50	45.1	ug/L	90	2			70 (61)	130 (104)	20 (20)
	Fluorene	50	44.7	ug/L	89	2			70 (64)	130 (107)	20 (20)
	4-Nitroaniline	50	46.6	ug/L	93	2			70 (55)	130 (125)	20 (20)
	4,6-Dinitro-2-methylphenol	50	48.8	ug/L	98	2			70 (62)	130 (132)	20 (20)
	N-Nitrosodiphenylamine	50	45.1	ug/L	90	2			70 (61)	130 (109)	20 (20)
	4-Bromophenyl-phenylether	50	45.2	ug/L	90	3			70 (73)	130 (103)	20 (20)

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2198

Client: Portal Partners Tri-Venture

Analytical Method: 8270E **DataFile:** BF142728.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	Limits RPD
PB168285BSD	Hexachlorobenzene	50	44.6	ug/L	89	1			70 (73)	130 (106)	20 (20)
	Atrazine	50	49.8	ug/L	100	2			70 (76)	130 (120)	20 (20)
	Pentachlorophenol	100	92.4	ug/L	92	1			20 (47)	160 (114)	20 (20)
	Phenanthrene	50	44.9	ug/L	90	1			70 (62)	130 (109)	20 (20)
	Anthracene	50	44.9	ug/L	90	2			70 (65)	130 (110)	20 (20)
	Carbazole	50	46.0	ug/L	92	1			70 (62)	130 (106)	20 (20)
	Di-n-butylphthalate	50	47.9	ug/L	96	3			70 (64)	130 (106)	20 (20)
	Fluoranthene	50	44.9	ug/L	90	2			70 (64)	130 (110)	20 (20)
	Pyrene	50	45.6	ug/L	91	2			70 (71)	130 (103)	20 (20)
	Butylbenzylphthalate	50	50.3	ug/L	101	0			70 (61)	130 (105)	20 (20)
	3,3-Dichlorobenzidine	50	22.2	ug/L	44	3	*		70 (43)	130 (108)	20 (20)
	Benzo(a)anthracene	50	47.6	ug/L	95	4			70 (62)	130 (107)	20 (20)
	Chrysene	50	44.8	ug/L	90	4			70 (61)	130 (108)	20 (20)
	bis(2-Ethylhexyl)phthalate	50	48.5	ug/L	97	5			70 (59)	130 (110)	20 (20)
	Di-n-octyl phthalate	50	47.1	ug/L	94	6			70 (52)	130 (139)	20 (20)
	Benzo(b)fluoranthene	50	46.5	ug/L	93	5			70 (77)	130 (113)	20 (20)
	Benzo(k)fluoranthene	50	47.3	ug/L	95	7			70 (77)	130 (105)	20 (20)
	Benzo(a)pyrene	50	47.5	ug/L	95	2			70 (72)	130 (131)	20 (20)
	Indeno(1,2,3-cd)pyrene	50	46.3	ug/L	93	3			70 (72)	130 (105)	20 (20)
	Dibenz(a,h)anthracene	50	46.6	ug/L	93	3			70 (78)	130 (115)	20 (20)
	Benzo(g,h,i)perylene	50	45.6	ug/L	91	3			70 (75)	130 (118)	20 (20)
	1,2,4,5-Tetrachlorobenzene	50	44.7	ug/L	89	0			70 (72)	130 (101)	20 (20)
	1,4-Dioxane	50	36.5	ug/L	73	1			20 (38)	160 (125)	20 (20)
	2,3,4,6-Tetrachlorophenol	50	46.0	ug/L	92	0			70 (63)	130 (116)	20 (20)

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2198

Client: Portal Partners Tri-Venture

Analytical Method: 8270E **DataFile:** BP024907.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	Limits RPD
PB168300BS	Benzaldehyde	1700	1100	ug/Kg	65				20 (10)	160 (133)	
	Phenol	1700	1500	ug/Kg	88				20 (62)	160 (112)	
	bis(2-Chloroethyl)ether	1700	1400	ug/Kg	82				70 (60)	130 (101)	
	2-Chlorophenol	1700	1500	ug/Kg	88				70 (65)	130 (112)	
	2-Methylphenol	1700	1400	ug/Kg	82				70 (61)	130 (108)	
	2,2-oxybis(1-Chloropropane)	1700	1300	ug/Kg	76				70 (51)	130 (100)	
	Acetophenone	1700	1400	ug/Kg	82				70 (66)	130 (98)	
	3+4-Methylphenols	1700	1400	ug/Kg	82				20 (58)	160 (111)	
	N-Nitroso-di-n-propylamine	1700	1300	ug/Kg	76				70 (63)	130 (95)	
	Hexachloroethane	1700	1300	ug/Kg	76				20 (72)	160 (108)	
	Nitrobenzene	1700	1400	ug/Kg	82				70 (57)	130 (101)	
	Isophorone	1700	1400	ug/Kg	82				70 (59)	130 (99)	
	2-Nitrophenol	1700	1500	ug/Kg	88				70 (61)	130 (111)	
	2,4-Dimethylphenol	1700	1500	ug/Kg	88				70 (46)	130 (141)	
	bis(2-Chloroethoxy)methane	1700	1400	ug/Kg	82				70 (66)	130 (97)	
	2,4-Dichlorophenol	1700	1600	ug/Kg	94				70 (62)	130 (107)	
	Naphthalene	1700	1400	ug/Kg	82				70 (62)	130 (100)	
	4-Chloroaniline	1700	1100	ug/Kg	65		*		70 (16)	130 (100)	
	Hexachlorobutadiene	1700	1500	ug/Kg	88				70 (53)	130 (98)	
	Caprolactam	1700	1400	ug/Kg	82				20 (67)	160 (110)	
	4-Chloro-3-methylphenol	1700	1500	ug/Kg	88				70 (58)	130 (112)	
	2-Methylnaphthalene	1700	1400	ug/Kg	82				70 (60)	130 (104)	
	Hexachlorocyclopentadiene	3300	2900	ug/Kg	88				20 (45)	160 (165)	
	2,4,6-Trichlorophenol	1700	1600	ug/Kg	94				70 (59)	130 (102)	
	2,4,5-Trichlorophenol	1700	1600	ug/Kg	94				70 (61)	130 (98)	
	1,1-Biphenyl	1700	1400	ug/Kg	82				70 (57)	130 (103)	
	2-Chloronaphthalene	1700	1400	ug/Kg	82				70 (58)	130 (99)	
	2-Nitroaniline	1700	1500	ug/Kg	88				70 (66)	130 (101)	
	Dimethylphthalate	1700	1400	ug/Kg	82				70 (61)	130 (99)	
	Acenaphthylene	1700	1400	ug/Kg	82				70 (63)	130 (101)	
	2,6-Dinitrotoluene	1700	1500	ug/Kg	88				70 (61)	130 (104)	
	3-Nitroaniline	1700	1200	ug/Kg	71				70 (28)	130 (100)	
	Acenaphthene	1700	1400	ug/Kg	82				70 (57)	130 (104)	
	2,4-Dinitrophenol	3300	2900	ug/Kg	88				20 (37)	160 (128)	
	4-Nitrophenol	3300	2800	ug/Kg	85				20 (48)	160 (119)	
	Dibenzofuran	1700	1400	ug/Kg	82				70 (63)	130 (99)	
	2,4-Dinitrotoluene	1700	1500	ug/Kg	88				70 (60)	130 (106)	
	Diethylphthalate	1700	1500	ug/Kg	88				70 (60)	130 (101)	
	4-Chlorophenyl-phenylether	1700	1500	ug/Kg	88				70 (58)	130 (98)	
	Fluorene	1700	1400	ug/Kg	82				70 (61)	130 (101)	
	4-Nitroaniline	1700	1600	ug/Kg	94				70 (64)	130 (103)	
	4,6-Dinitro-2-methylphenol	1700	1500	ug/Kg	88				70 (76)	130 (113)	
	N-Nitrosodiphenylamine	1700	1500	ug/Kg	88				70 (71)	130 (99)	
	4-Bromophenyl-phenylether	1700	1500	ug/Kg	88				70 (66)	130 (102)	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2198

Client: Portal Partners Tri-Venture

Analytical Method: 8270E **DataFile:** BP024907.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	Limits RPD
PB168300BS	Hexachlorobenzene	1700	1500	ug/Kg	88				70 (64)	130 (98)	
	Atrazine	1700	1500	ug/Kg	88				70 (47)	130 (152)	
	Pentachlorophenol	3300	3600	ug/Kg	109				20 (67)	160 (105)	
	Phenanthrene	1700	1500	ug/Kg	88				70 (59)	130 (103)	
	Anthracene	1700	1400	ug/Kg	82				70 (61)	130 (105)	
	Carbazole	1700	1500	ug/Kg	88				70 (61)	130 (99)	
	Di-n-butylphthalate	1700	1600	ug/Kg	94				70 (58)	130 (104)	
	Fluoranthene	1700	1500	ug/Kg	88				70 (57)	130 (107)	
	Pyrene	1700	1500	ug/Kg	88				70 (59)	130 (103)	
	Butylbenzylphthalate	1700	1600	ug/Kg	94				70 (55)	130 (103)	
	3,3-Dichlorobenzidine	1700	1200	ug/Kg	71				70 (42)	130 (91)	
	Benzo(a)anthracene	1700	1500	ug/Kg	88				70 (60)	130 (102)	
	Chrysene	1700	1500	ug/Kg	88				70 (59)	130 (101)	
	bis(2-Ethylhexyl)phthalate	1700	1600	ug/Kg	94				70 (54)	130 (135)	
	Di-n-octyl phthalate	1700	1600	ug/Kg	94				70 (52)	130 (137)	
	Benzo(b)fluoranthene	1700	1600	ug/Kg	94				70 (62)	130 (109)	
	Benzo(k)fluoranthene	1700	1500	ug/Kg	88				70 (62)	130 (109)	
	Benzo(a)pyrene	1700	1500	ug/Kg	88				70 (63)	130 (103)	
	Indeno(1,2,3-cd)pyrene	1700	1500	ug/Kg	88				70 (63)	130 (101)	
	Dibenz(a,h)anthracene	1700	1600	ug/Kg	94				70 (61)	130 (112)	
	Benzo(g,h,i)perylene	1700	1500	ug/Kg	88				70 (70)	130 (108)	
	1,2,4,5-Tetrachlorobenzene	1700	1500	ug/Kg	88				70 (53)	130 (101)	
	1,4-Dioxane	1700	1000	ug/Kg	59				20 (50)	160 (96)	
	2,3,4,6-Tetrachlorophenol	1700	1600	ug/Kg	94				70 (59)	130 (108)	

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4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB168285BL

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q2198 SAS No.: Q2198 SDG NO.: Q2198

Lab File ID: BF142626.D Lab Sample ID: PB168285BL

Instrument ID: BNA_F Date Extracted: 06/04/2025

Matrix: (soil/water) Water Date Analyzed: 06/05/2025

Level: (low/med) LOW Time Analyzed: 11:04

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
B-202-GW01	Q2198-05	BF142653.D	06/06/2025
PB168285BS	PB168285BS	BF142727.D	06/11/2025
PB168285BSD	PB168285BSD	BF142728.D	06/11/2025

COMMENTS:

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4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB168300BL

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q2198 SAS No.: Q2198 SDG NO.: Q2198

Lab File ID: BP024906.D Lab Sample ID: PB168300BL

Instrument ID: BNA_P Date Extracted: 06/05/2025

Matrix: (soil/water) SOIL Date Analyzed: 06/11/2025

Level: (low/med) LOW Time Analyzed: 10:50

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB168300BS	PB168300BS	BP024907.D	06/11/2025
B-207-SB02	Q2198-03	BP024919.D	06/11/2025
B-202-SB02	Q2198-01	BF142651.D	06/06/2025
BU-703-COMP-05MS	Q2207-37MS	BF142644.D	06/06/2025
BU-703-COMP-05MSD	Q2207-37MSD	BF142645.D	06/06/2025

COMMENTS:

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM SAS No.: Q2198 SDG NO.: Q2198

Lab File ID: BF142465.D DFTPP Injection Date: 05/20/2025

Instrument ID: BNA_F DFTPP Injection Time: 11:13

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	36.8
68	Less than 2.0% of mass 69	0.5 (1.9) 1
69	Mass 69 relative abundance	33.1
70	Less than 2.0% of mass 69	0.1 (0.5) 1
127	10.0 - 80.0% of mass 198	44.9
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.6
275	10.0 - 60.0% of mass 198	29.9
365	Greater than 1% of mass 198	4.2
441	Present, but less than mass 443	19.9
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	19 (19) 2

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

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDICC2.5	SSTDICC2.5	BF142467.D	05/20/2025	12:10
SSTDICC005	SSTDICC005	BF142468.D	05/20/2025	12:38
SSTDICC010	SSTDICC010	BF142469.D	05/20/2025	13:07
SSTDICC020	SSTDICC020	BF142470.D	05/20/2025	13:36
SSTDICCC040	SSTDICCC040	BF142471.D	05/20/2025	14:05
SSTDICC050	SSTDICC050	BF142472.D	05/20/2025	14:34
SSTDICC060	SSTDICC060	BF142473.D	05/20/2025	15:03
SSTDICC080	SSTDICC080	BF142474.D	05/20/2025	15:31

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM SAS No.: Q2198 SDG NO.: Q2198

Lab File ID: BF142624.D DFTPP Injection Date: 06/05/2025

Instrument ID: BNA_F DFTPP Injection Time: 09:07

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	38.0
68	Less than 2.0% of mass 69	0.5 (1.8) 1
69	Mass 69 relative abundance	33.2
70	Less than 2.0% of mass 69	0.2 (0.6) 1
127	10.0 - 80.0% of mass 198	45.4
197	Less than 2.0% of mass 198	0.5
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.8
275	10.0 - 60.0% of mass 198	27.9
365	Greater than 1% of mass 198	3.5
441	Present, but less than mass 443	17.5
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	19.6 (19.6) 2

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

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC040	SSTDCCC040	BF142625.D	06/05/2025	09:37
PB168285BL	PB168285BL	BF142626.D	06/05/2025	11:04

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM SAS No.: Q2198 SDG NO.: Q2198

Lab File ID: BF142639.D DFTPP Injection Date: 06/06/2025

Instrument ID: BNA_F DFTPP Injection Time: 11:01

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	37.0
68	Less than 2.0% of mass 69	0.5 (1.8) 1
69	Mass 69 relative abundance	32.3
70	Less than 2.0% of mass 69	0.2 (0.6) 1
127	10.0 - 80.0% of mass 198	45.2
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.6
275	10.0 - 60.0% of mass 198	28.0
365	Greater than 1% of mass 198	3.6
441	Present, but less than mass 443	17.0
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	18.9 (18.9) 2

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

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC040	SSTDCCC040	BF142640.D	06/06/2025	11:36
BU-703-COMP-05MS	Q2207-37MS	BF142644.D	06/06/2025	13:54
BU-703-COMP-05MSD	Q2207-37MSD	BF142645.D	06/06/2025	14:25
B-202-SB02	Q2198-01	BF142651.D	06/06/2025	17:31
B-202-GW01	Q2198-05	BF142653.D	06/06/2025	18:31

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SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM SAS No.: Q2198 SDG NO.: Q2198

Lab File ID: BF142710.D DFTPP Injection Date: 06/10/2025

Instrument ID: BNA_F DFTPP Injection Time: 15:42

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	36.0
68	Less than 2.0% of mass 69	0.5 (1.7) 1
69	Mass 69 relative abundance	33.2
70	Less than 2.0% of mass 69	0.1 (0.2) 1
127	10.0 - 80.0% of mass 198	45.7
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.8
275	10.0 - 60.0% of mass 198	28.7
365	Greater than 1% of mass 198	3.9
441	Present, but less than mass 443	18.0
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	19 (19) 2

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

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDICC2.5	SSTDICC2.5	BF142712.D	06/10/2025	16:54
SSTDICC005	SSTDICC005	BF142713.D	06/10/2025	17:24
SSTDICC010	SSTDICC010	BF142714.D	06/10/2025	17:53
SSTDICC020	SSTDICC020	BF142715.D	06/10/2025	18:22
SSTDICCC040	SSTDICCC040	BF142716.D	06/10/2025	18:52
SSTDICC050	SSTDICC050	BF142717.D	06/10/2025	19:21
SSTDICC060	SSTDICC060	BF142718.D	06/10/2025	19:50
SSTDICC080	SSTDICC080	BF142719.D	06/10/2025	20:19

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SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM SAS No.: Q2198 SDG NO.: Q2198

Lab File ID: BF142722.D DFTPP Injection Date: 06/11/2025

Instrument ID: BNA_F DFTPP Injection Time: 08:56

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	37.2
68	Less than 2.0% of mass 69	0.6 (1.9) 1
69	Mass 69 relative abundance	34.1
70	Less than 2.0% of mass 69	0.1 (0.4) 1
127	10.0 - 80.0% of mass 198	47.9
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.6
275	10.0 - 60.0% of mass 198	27.9
365	Greater than 1% of mass 198	3.7
441	Present, but less than mass 443	17.6
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	18.6 (18.6) 2

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

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC040	SSTDCCC040	BF142723.D	06/11/2025	09:24
PB168285BS	PB168285BS	BF142727.D	06/11/2025	11:21
PB168285BSD	PB168285BSD	BF142728.D	06/11/2025	11:50

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM SAS No.: Q2198 SDG NO.: Q2198

Lab File ID: BP024859.D DFTPP Injection Date: 06/06/2025

Instrument ID: BNA_P DFTPP Injection Time: 09:49

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	32.2
68	Less than 2.0% of mass 69	0.7 (1.9) 1
69	Mass 69 relative abundance	36.9
70	Less than 2.0% of mass 69	0.2 (0.6) 1
127	10.0 - 80.0% of mass 198	47.9
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.6
275	10.0 - 60.0% of mass 198	31.2
365	Greater than 1% of mass 198	4.6
441	Present, but less than mass 443	13.1
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	16.1 (19.2) 2

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

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDICC2.5	SSTDICC2.5	BP024860.D	06/06/2025	10:30
SSTDICC005	SSTDICC005	BP024861.D	06/06/2025	11:11
SSTDICC010	SSTDICC010	BP024862.D	06/06/2025	11:52
SSTDICC020	SSTDICC020	BP024863.D	06/06/2025	12:33
SSTDICCC040	SSTDICCC040	BP024864.D	06/06/2025	13:14
SSTDICC050	SSTDICC050	BP024865.D	06/06/2025	13:56
SSTDICC060	SSTDICC060	BP024866.D	06/06/2025	14:37
SSTDICC080	SSTDICC080	BP024867.D	06/06/2025	15:18

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM SAS No.: Q2198 SDG NO.: Q2198

Lab File ID: BP024904.D DFTPP Injection Date: 06/11/2025

Instrument ID: BNA_P DFTPP Injection Time: 09:29

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	29.9
68	Less than 2.0% of mass 69	0.6 (1.8) 1
69	Mass 69 relative abundance	34.6
70	Less than 2.0% of mass 69	0.2 (0.5) 1
127	10.0 - 80.0% of mass 198	45.8
197	Less than 2.0% of mass 198	0.2
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.7
275	10.0 - 60.0% of mass 198	30.8
365	Greater than 1% of mass 198	4.4
441	Present, but less than mass 443	13.2
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	16.1 (19.1) 2

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

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC040	SSTDCCC040	BP024905.D	06/11/2025	10:09
PB168300BL	PB168300BL	BP024906.D	06/11/2025	10:50
PB168300BS	PB168300BS	BP024907.D	06/11/2025	11:31
B-207-SB02	Q2198-03	BP024919.D	06/11/2025	19:49

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q2198 SAS No.: Q2198 SDG NO.: Q2198

EPA Sample No.: SSTDCCC040 Date Analyzed: 06/05/2025

Lab File ID: BF142625.D Time Analyzed: 09:37

Instrument ID: BNA_F GC Column: DB-UI ID: 0.18 (mm)

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	122240	6.898	479356	8.18	254347	9.94
	UPPER LIMIT	244480	7.398	958712	8.681	508694	10.439
	LOWER LIMIT	61120	6.398	239678	7.681	127174	9.439
	EPA SAMPLE NO.						
01	PB168285BL	122182	6.89	466755	8.18	253840	9.93

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

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 UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q2198 SAS No.: Q2198 SDG NO.: Q2198

EPA Sample No.: SSTDCCC040 Date Analyzed: 06/05/2025

Lab File ID: BF142625.D Time Analyzed: 09:37

Instrument ID: BNA_F GC Column: DB-UI ID: 0.18 (mm)

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	415186	11.427	211462	14.068	258069	15.562
	UPPER LIMIT	830372	11.927	422924	14.568	516138	16.062
	LOWER LIMIT	207593	10.927	105731	13.568	129035	15.062
	EPA SAMPLE NO.						
01	PB168285BL	433273	11.42	225137	14.07	234045	15.56

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

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 UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q2198 SAS No.: Q2198 SDG NO.: Q2198

EPA Sample No.: SSTDCCC040 Date Analyzed: 06/06/2025

Lab File ID: BF142640.D Time Analyzed: 11:36

Instrument ID: BNA_F GC Column: DB-UI ID: 0.18 (mm)

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	126582	6.893	487381	8.18	254808	9.94
	UPPER LIMIT	253164	7.393	974762	8.681	509616	10.439
	LOWER LIMIT	63291	6.393	243691	7.681	127404	9.439
	EPA SAMPLE NO.						
01	BU-703-COMP-05MS	117558	6.89	431241	8.18	216176	9.93
02	BU-703-COMP-05MSD	121107	6.89	452734	8.18	227605	9.94
03	B-202-SB02	123234	6.89	476509	8.18	248989	9.93
04	B-202-GW01	128178	6.89	474023	8.18	251177	9.93

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

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 UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q2198 SAS No.: Q2198 SDG NO.: Q2198

EPA Sample No.: SSTDCCC040 Date Analyzed: 06/06/2025

Lab File ID: BF142640.D Time Analyzed: 11:36

Instrument ID: BNA_F GC Column: DB-UI ID: 0.18 (mm)

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	375492	11.428	207998	14.069	270482	15.563
	UPPER LIMIT	750984	11.928	415996	14.569	540964	16.063
	LOWER LIMIT	187746	10.928	103999	13.569	135241	15.063
	EPA SAMPLE NO.						
01	BU-703-COMP-05MS	319672	11.42	220105	14.07	274187	15.56
02	BU-703-COMP-05MSD	350996	11.43	216229	14.07	267697	15.56
03	B-202-SB02	371551	11.42	222853	14.06	271822	15.56
04	B-202-GW01	369246	11.42	237734	14.06	277909	15.56

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

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 UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q2198 SAS No.: Q2198 SDG NO.: Q2198

EPA Sample No.: SSTDCCC040 Date Analyzed: 06/11/2025

Lab File ID: BF142723.D Time Analyzed: 09:24

Instrument ID: BNA_F GC Column: DB-UI ID: 0.18 (mm)

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	78219	6.892	306828	8.18	172169	9.94
	UPPER LIMIT	156438	7.392	613656	8.681	344338	10.439
	LOWER LIMIT	39109.5	6.392	153414	7.681	86084.5	9.439
	EPA SAMPLE NO.						
01	PB168285BS	75631	6.89	294551	8.18	162704	9.93
02	PB168285BSD	79958	6.89	304653	8.18	167586	9.94

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

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 UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q2198 SAS No.: Q2198 SDG NO.: Q2198

EPA Sample No.: SSTDCCC040 Date Analyzed: 06/11/2025

Lab File ID: BF142723.D Time Analyzed: 09:24

Instrument ID: BNA_F GC Column: DB-UI ID: 0.18 (mm)

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	291189	11.427	151467	14.068	144700	15.562
	UPPER LIMIT	582378	11.927	302934	14.568	289400	16.062
	LOWER LIMIT	145595	10.927	75733.5	13.568	72350	15.062
	EPA SAMPLE NO.						
01	PB168285BS	278222	11.43	147780	14.07	156697	15.56
02	PB168285BSD	281985	11.43	148975	14.07	159540	15.56

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

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 UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q2198 SAS No.: Q2198 SDG NO.: Q2198

EPA Sample No.: SSTDCCC040 Date Analyzed: 06/11/2025

Lab File ID: BP024905.D Time Analyzed: 10:09

Instrument ID: BNA_P GC Column: ZB-GR ID: 0.25 (mm)

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	246136	7.607	989564	10.38	627529	14.25
	UPPER LIMIT	492272	8.107	1979130	10.878	1255060	14.754
	LOWER LIMIT	123068	7.107	494782	9.878	313765	13.754
	EPA SAMPLE NO.						
01	PB168300BL	253698	7.61	948256	10.38	596004	14.25
02	PB168300BS	284260	7.61	1118810	10.38	705062	14.25
03	B-207-SB02	281069	7.61	1088540	10.38	644187	14.26

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

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 UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q2198 SAS No.: Q2198 SDG NO.: Q2198

EPA Sample No.: SSTDCCC040 Date Analyzed: 06/11/2025

Lab File ID: BP024905.D Time Analyzed: 10:09

Instrument ID: BNA_P GC Column: ZB-GR ID: 0.25 (mm)

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	1260450	17.06	1315010	21.501	1616000	24.765
	UPPER LIMIT	2520900	17.56	2630020	22.001	3232000	25.265
	LOWER LIMIT	630225	16.56	657505	21.001	808000	24.265
	EPA SAMPLE NO.						
01	PB168300BL	1216140	17.07	1397580	21.49	1605440	24.75
02	PB168300BS	1346680	17.06	1423480	21.49	1633280	24.75
03	B-207-SB02	1235780	17.06	1500250	21.50	1863840	24.77

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

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 UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

QC SAMPLE DATA

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB168285BL	SDG No.:	Q2198
Lab Sample ID:	PB168285BL	Matrix:	Water
Analytical Method:	8270E	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142626.D	1	06/04/25 11:45	06/05/25 11:04	PB168285

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	3.90	U	3.90	10.0	ug/L
108-95-2	Phenol	0.91	U	0.91	5.00	ug/L
111-44-4	bis(2-Chloroethyl)ether	0.81	U	0.81	5.00	ug/L
95-57-8	2-Chlorophenol	0.58	U	0.58	5.00	ug/L
95-48-7	2-Methylphenol	1.10	U	1.10	5.00	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	1.30	U	1.30	5.00	ug/L
98-86-2	Acetophenone	0.74	U	0.74	5.00	ug/L
65794-96-9	3+4-Methylphenols	1.10	U	1.10	10.0	ug/L
621-64-7	n-Nitroso-di-n-propylamine	1.40	U	1.40	2.50	ug/L
67-72-1	Hexachloroethane	0.65	U	0.65	5.00	ug/L
98-95-3	Nitrobenzene	0.76	U	0.76	5.00	ug/L
78-59-1	Isophorone	0.75	U	0.75	5.00	ug/L
88-75-5	2-Nitrophenol	1.80	U	1.80	5.00	ug/L
105-67-9	2,4-Dimethylphenol	1.90	U	1.90	5.00	ug/L
111-91-1	bis(2-Chloroethoxy)methane	0.68	U	0.68	5.00	ug/L
120-83-2	2,4-Dichlorophenol	0.52	U	0.52	5.00	ug/L
91-20-3	Naphthalene	0.50	U	0.50	5.00	ug/L
106-47-8	4-Chloroaniline	0.84	U	0.84	5.00	ug/L
87-68-3	Hexachlorobutadiene	0.54	U	0.54	5.00	ug/L
105-60-2	Caprolactam	1.10	U	1.10	10.0	ug/L
59-50-7	4-Chloro-3-methylphenol	0.59	U	0.59	5.00	ug/L
91-57-6	2-Methylnaphthalene	0.56	U	0.56	5.00	ug/L
77-47-4	Hexachlorocyclopentadiene	3.60	U	3.60	10.0	ug/L
88-06-2	2,4,6-Trichlorophenol	0.51	U	0.51	5.00	ug/L
95-95-4	2,4,5-Trichlorophenol	0.62	U	0.62	5.00	ug/L
92-52-4	1,1-Biphenyl	0.53	U	0.53	5.00	ug/L
91-58-7	2-Chloronaphthalene	0.61	U	0.61	5.00	ug/L
88-74-4	2-Nitroaniline	1.30	U	1.30	5.00	ug/L
131-11-3	Dimethylphthalate	0.61	U	0.61	5.00	ug/L

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB168285BL	SDG No.:	Q2198
Lab Sample ID:	PB168285BL	Matrix:	Water
Analytical Method:	8270E	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142626.D	1	06/04/25 11:45	06/05/25 11:04	PB168285

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
208-96-8	Acenaphthylene	0.75	U	0.75	5.00	ug/L
606-20-2	2,6-Dinitrotoluene	0.92	U	0.92	5.00	ug/L
99-09-2	3-Nitroaniline	1.10	U	1.10	5.00	ug/L
83-32-9	Acenaphthene	0.55	U	0.55	5.00	ug/L
51-28-5	2,4-Dinitrophenol	6.00	U	6.00	10.0	ug/L
100-02-7	4-Nitrophenol	2.40	U	2.40	10.0	ug/L
132-64-9	Dibenzofuran	0.61	U	0.61	5.00	ug/L
121-14-2	2,4-Dinitrotoluene	1.20	U	1.20	5.00	ug/L
84-66-2	Diethylphthalate	0.69	U	0.69	5.00	ug/L
7005-72-3	4-Chlorophenyl-phenylether	0.68	U	0.68	5.00	ug/L
86-73-7	Fluorene	0.63	U	0.63	5.00	ug/L
100-01-6	4-Nitroaniline	1.50	U	1.50	5.00	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	2.90	U	2.90	10.0	ug/L
86-30-6	n-Nitrosodiphenylamine	0.58	U	0.58	5.00	ug/L
101-55-3	4-Bromophenyl-phenylether	0.40	U	0.40	5.00	ug/L
118-74-1	Hexachlorobenzene	0.52	U	0.52	5.00	ug/L
1912-24-9	Atrazine	1.00	U	1.00	5.00	ug/L
87-86-5	Pentachlorophenol	1.60	U	1.60	10.0	ug/L
85-01-8	Phenanthrene	0.50	U	0.50	5.00	ug/L
120-12-7	Anthracene	0.61	U	0.61	5.00	ug/L
86-74-8	Carbazole	0.72	U	0.72	5.00	ug/L
84-74-2	Di-n-butylphthalate	1.20	U	1.20	5.00	ug/L
206-44-0	Fluoranthene	0.82	U	0.82	5.00	ug/L
129-00-0	Pyrene	0.50	U	0.50	5.00	ug/L
85-68-7	Butylbenzylphthalate	1.90	U	1.90	5.00	ug/L
91-94-1	3,3-Dichlorobenzidine	0.93	U	0.93	10.0	ug/L
56-55-3	Benzo(a)anthracene	0.45	U	0.45	5.00	ug/L
218-01-9	Chrysene	0.44	U	0.44	5.00	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	1.60	U	1.60	5.00	ug/L
117-84-0	Di-n-octyl phthalate	2.30	U	2.30	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	0.49	U	0.49	5.00	ug/L

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB168285BL	SDG No.:	Q2198
Lab Sample ID:	PB168285BL	Matrix:	Water
Analytical Method:	8270E	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142626.D	1	06/04/25 11:45	06/05/25 11:04	PB168285

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
207-08-9	Benzo(k)fluoranthene	0.48	U	0.48	5.00	ug/L
50-32-8	Benzo(a)pyrene	0.55	U	0.55	5.00	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.59	U	0.59	5.00	ug/L
53-70-3	Dibenzo(a,h)anthracene	0.67	U	0.67	5.00	ug/L
191-24-2	Benzo(g,h,i)perylene	0.69	U	0.69	5.00	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	0.52	U	0.52	5.00	ug/L
123-91-1	1,4-Dioxane	1.00	U	1.00	5.00	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	0.72	U	0.72	5.00	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	125		15 (23) - 110 (138)	83%	SPK: 150
13127-88-3	Phenol-d6	124		15 (10) - 110 (134)	83%	SPK: 150
4165-60-0	Nitrobenzene-d5	78.6		30 (67) - 130 (132)	79%	SPK: 100
321-60-8	2-Fluorobiphenyl	75.2		30 (52) - 130 (132)	75%	SPK: 100
118-79-6	2,4,6-Tribromophenol	122		15 (44) - 110 (137)	82%	SPK: 150
1718-51-0	Terphenyl-d14	78.1		30 (42) - 130 (152)	78%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	122000	6.892			
1146-65-2	Naphthalene-d8	467000	8.181			
15067-26-2	Acenaphthene-d10	254000	9.933			
1517-22-2	Phenanthrene-d10	433000	11.421			
1719-03-5	Chrysene-d12	225000	14.068			
1520-96-3	Perylene-d12	234000	15.562			
TENTATIVE IDENTIFIED COMPOUNDS						
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	9.90	A		5.13	ug/L

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB168285BL	SDG No.:	Q2198
Lab Sample ID:	PB168285BL	Matrix:	Water
Analytical Method:	8270E	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142626.D	1	06/04/25 11:45	06/05/25 11:04	PB168285

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB168300BL	SDG No.:	Q2198
Lab Sample ID:	PB168300BL	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	100
Sample Wt/Vol:	30.01 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP024906.D	1	06/05/25 09:40	06/11/25 10:50	PB168300

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	160	U	160	330	ug/Kg
108-95-2	Phenol	22.1	U	22.1	170	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	24.3	U	24.3	170	ug/Kg
95-57-8	2-Chlorophenol	24.4	U	24.4	170	ug/Kg
95-48-7	2-Methylphenol	29.9	U	29.9	170	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	37.5	U	37.5	170	ug/Kg
98-86-2	Acetophenone	29.5	U	29.5	170	ug/Kg
65794-96-9	3+4-Methylphenols	41.1	U	41.1	330	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	47.4	U	47.4	80.0	ug/Kg
67-72-1	Hexachloroethane	17.6	U	17.6	170	ug/Kg
98-95-3	Nitrobenzene	18.3	U	18.3	170	ug/Kg
78-59-1	Isophorone	32.8	U	32.8	170	ug/Kg
88-75-5	2-Nitrophenol	58.2	U	58.2	170	ug/Kg
105-67-9	2,4-Dimethylphenol	64.8	U	64.8	170	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	30.8	U	30.8	170	ug/Kg
120-83-2	2,4-Dichlorophenol	28.3	U	28.3	170	ug/Kg
91-20-3	Naphthalene	22.7	U	22.7	170	ug/Kg
106-47-8	4-Chloroaniline	35.4	U	35.4	170	ug/Kg
87-68-3	Hexachlorobutadiene	25.3	U	25.3	170	ug/Kg
105-60-2	Caprolactam	52.1	U	52.1	330	ug/Kg
59-50-7	4-Chloro-3-methylphenol	28.7	U	28.7	170	ug/Kg
91-57-6	2-Methylnaphthalene	25.6	U	25.6	170	ug/Kg
77-47-4	Hexachlorocyclopentadiene	120	U	120	330	ug/Kg
88-06-2	2,4,6-Trichlorophenol	19.8	U	19.8	170	ug/Kg
95-95-4	2,4,5-Trichlorophenol	29.1	U	29.1	170	ug/Kg
92-52-4	1,1-Biphenyl	21.8	U	21.8	170	ug/Kg
91-58-7	2-Chloronaphthalene	22.5	U	22.5	170	ug/Kg
88-74-4	2-Nitroaniline	48.1	U	48.1	170	ug/Kg
131-11-3	Dimethylphthalate	27.1	U	27.1	170	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB168300BL	SDG No.:	Q2198
Lab Sample ID:	PB168300BL	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	100
Sample Wt/Vol:	30.01 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP024906.D	1	06/05/25 09:40	06/11/25 10:50	PB168300

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	28.9	U	28.9	170	ug/Kg
606-20-2	2,6-Dinitrotoluene	33.6	U	33.6	170	ug/Kg
99-09-2	3-Nitroaniline	46.0	U	46.0	170	ug/Kg
83-32-9	Acenaphthene	21.3	U	21.3	170	ug/Kg
51-28-5	2,4-Dinitrophenol	230	U	230	330	ug/Kg
100-02-7	4-Nitrophenol	110	U	110	330	ug/Kg
132-64-9	Dibenzofuran	22.7	U	22.7	170	ug/Kg
121-14-2	2,4-Dinitrotoluene	50.1	U	50.1	170	ug/Kg
84-66-2	Diethylphthalate	28.3	U	28.3	170	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	26.7	U	26.7	170	ug/Kg
86-73-7	Fluorene	25.3	U	25.3	170	ug/Kg
100-01-6	4-Nitroaniline	64.2	U	64.2	170	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	100	U	100	330	ug/Kg
86-30-6	n-Nitrosodiphenylamine	32.9	U	32.9	170	ug/Kg
101-55-3	4-Bromophenyl-phenylether	27.8	U	27.8	170	ug/Kg
118-74-1	Hexachlorobenzene	25.3	U	25.3	170	ug/Kg
1912-24-9	Atrazine	34.0	U	34.0	170	ug/Kg
87-86-5	Pentachlorophenol	51.3	U	51.3	330	ug/Kg
85-01-8	Phenanthrene	20.9	U	20.9	170	ug/Kg
120-12-7	Anthracene	33.3	U	33.3	170	ug/Kg
86-74-8	Carbazole	31.2	U	31.2	170	ug/Kg
84-74-2	Di-n-butylphthalate	47.9	U	47.9	170	ug/Kg
206-44-0	Fluoranthene	30.0	U	30.0	170	ug/Kg
129-00-0	Pyrene	36.0	U	36.0	170	ug/Kg
85-68-7	Butylbenzylphthalate	71.4	U	71.4	170	ug/Kg
91-94-1	3,3-Dichlorobenzidine	36.7	U	36.7	330	ug/Kg
56-55-3	Benzo(a)anthracene	23.0	U	23.0	170	ug/Kg
218-01-9	Chrysene	19.9	U	19.9	170	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	59.2	U	59.2	170	ug/Kg
117-84-0	Di-n-octyl phthalate	86.8	U	86.8	330	ug/Kg
205-99-2	Benzo(b)fluoranthene	19.0	U	19.0	170	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB168300BL	SDG No.:	Q2198
Lab Sample ID:	PB168300BL	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	100
Sample Wt/Vol:	30.01 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP024906.D	1	06/05/25 09:40	06/11/25 10:50	PB168300

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	22.4	U	22.4	170	ug/Kg
50-32-8	Benzo(a)pyrene	29.5	U	29.5	170	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	29.1	U	29.1	170	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	27.4	U	27.4	170	ug/Kg
191-24-2	Benzo(g,h,i)perylene	25.7	U	25.7	170	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	25.6	U	25.6	170	ug/Kg
123-91-1	1,4-Dioxane	45.2	U	45.2	170	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	27.4	U	27.4	170	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	134		30 (18) - 130 (112)	89%	SPK: 150
13127-88-3	Phenol-d6	125		30 (15) - 130 (107)	84%	SPK: 150
4165-60-0	Nitrobenzene-d5	79.1		30 (18) - 130 (107)	79%	SPK: 100
321-60-8	2-Fluorobiphenyl	76.6		30 (20) - 130 (109)	77%	SPK: 100
118-79-6	2,4,6-Tribromophenol	140		30 (10) - 130 (116)	93%	SPK: 150
1718-51-0	Terphenyl-d14	79.1		30 (10) - 130 (105)	79%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	254000	7.614			
1146-65-2	Naphthalene-d8	948000	10.384			
15067-26-2	Acenaphthene-d10	596000	14.254			
1517-22-2	Phenanthrene-d10	1220000	17.066			
1719-03-5	Chrysene-d12	1400000	21.489			
1520-96-3	Perylene-d12	1610000	24.748			
TENTATIVE IDENTIFIED COMPOUNDS						
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	250	A		4.77	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture			Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025			Date Received:	
Client Sample ID:	PB168300BL			SDG No.:	Q2198
Lab Sample ID:	PB168300BL			Matrix:	SOIL
Analytical Method:	8270E			% Solid:	100
Sample Wt/Vol:	30.01	Units:	g	Final Vol:	1000 uL
Soil Aliquot Vol:			uL	Test:	SVOC-TCL BNA -20
Extraction Type :			Decanted : N	Level :	LOW
Injection Volume :			GPC Factor : 1.0	GPC Cleanup : N	PH :
Prep Method :	SW3541				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP024906.D	1	06/05/25 09:40	06/11/25 10:50	PB168300

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB168285BS	SDG No.:	Q2198
Lab Sample ID:	PB168285BS	Matrix:	Water
Analytical Method:	8270E	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142727.D	1	06/04/25 11:45	06/11/25 11:21	PB168285

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	32.2		3.90	10.0	ug/L
108-95-2	Phenol	44.1		0.91	5.00	ug/L
111-44-4	bis(2-Chloroethyl)ether	44.2		0.81	5.00	ug/L
95-57-8	2-Chlorophenol	45.9		0.58	5.00	ug/L
95-48-7	2-Methylphenol	45.4		1.10	5.00	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	43.1		1.30	5.00	ug/L
98-86-2	Acetophenone	44.3		0.74	5.00	ug/L
65794-96-9	3+4-Methylphenols	45.6		1.10	10.0	ug/L
621-64-7	n-Nitroso-di-n-propylamine	43.7		1.40	2.50	ug/L
67-72-1	Hexachloroethane	43.4		0.65	5.00	ug/L
98-95-3	Nitrobenzene	44.6		0.76	5.00	ug/L
78-59-1	Isophorone	43.8		0.75	5.00	ug/L
88-75-5	2-Nitrophenol	46.1		1.80	5.00	ug/L
105-67-9	2,4-Dimethylphenol	45.3		1.90	5.00	ug/L
111-91-1	bis(2-Chloroethoxy)methane	44.3		0.68	5.00	ug/L
120-83-2	2,4-Dichlorophenol	45.4		0.52	5.00	ug/L
91-20-3	Naphthalene	43.8		0.50	5.00	ug/L
106-47-8	4-Chloroaniline	14.3		0.84	5.00	ug/L
87-68-3	Hexachlorobutadiene	43.1		0.54	5.00	ug/L
105-60-2	Caprolactam	50.0		1.10	10.0	ug/L
59-50-7	4-Chloro-3-methylphenol	44.9		0.59	5.00	ug/L
91-57-6	2-Methylnaphthalene	43.3		0.56	5.00	ug/L
77-47-4	Hexachlorocyclopentadiene	90.6	E	3.60	10.0	ug/L
88-06-2	2,4,6-Trichlorophenol	46.7		0.51	5.00	ug/L
95-95-4	2,4,5-Trichlorophenol	44.9		0.62	5.00	ug/L
92-52-4	1,1-Biphenyl	44.3		0.53	5.00	ug/L
91-58-7	2-Chloronaphthalene	44.3		0.61	5.00	ug/L
88-74-4	2-Nitroaniline	45.3		1.30	5.00	ug/L
131-11-3	Dimethylphthalate	45.8		0.61	5.00	ug/L

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB168285BS	SDG No.:	Q2198
Lab Sample ID:	PB168285BS	Matrix:	Water
Analytical Method:	8270E	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142727.D	1	06/04/25 11:45	06/11/25 11:21	PB168285

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
208-96-8	Acenaphthylene	44.7		0.75	5.00	ug/L
606-20-2	2,6-Dinitrotoluene	46.3		0.92	5.00	ug/L
99-09-2	3-Nitroaniline	26.2		1.10	5.00	ug/L
83-32-9	Acenaphthene	50.3		0.55	5.00	ug/L
51-28-5	2,4-Dinitrophenol	110	E	6.00	10.0	ug/L
100-02-7	4-Nitrophenol	98.9	E	2.40	10.0	ug/L
132-64-9	Dibenzofuran	44.4		0.61	5.00	ug/L
121-14-2	2,4-Dinitrotoluene	48.0		1.20	5.00	ug/L
84-66-2	Diethylphthalate	46.4		0.69	5.00	ug/L
7005-72-3	4-Chlorophenyl-phenylether	44.1		0.68	5.00	ug/L
86-73-7	Fluorene	43.9		0.63	5.00	ug/L
100-01-6	4-Nitroaniline	47.5		1.50	5.00	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	48.0		2.90	10.0	ug/L
86-30-6	n-Nitrosodiphenylamine	44.4		0.58	5.00	ug/L
101-55-3	4-Bromophenyl-phenylether	43.9		0.40	5.00	ug/L
118-74-1	Hexachlorobenzene	44.1		0.52	5.00	ug/L
1912-24-9	Atrazine	50.6		1.00	5.00	ug/L
87-86-5	Pentachlorophenol	93.6	E	1.60	10.0	ug/L
85-01-8	Phenanthrene	44.5		0.50	5.00	ug/L
120-12-7	Anthracene	44.2		0.61	5.00	ug/L
86-74-8	Carbazole	45.7		0.72	5.00	ug/L
84-74-2	Di-n-butylphthalate	49.3		1.20	5.00	ug/L
206-44-0	Fluoranthene	45.7		0.82	5.00	ug/L
129-00-0	Pyrene	46.5		0.50	5.00	ug/L
85-68-7	Butylbenzylphthalate	50.4		1.90	5.00	ug/L
91-94-1	3,3-Dichlorobenzidine	21.6		0.93	10.0	ug/L
56-55-3	Benzo(a)anthracene	45.7		0.45	5.00	ug/L
218-01-9	Chrysene	46.7		0.44	5.00	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	46.3		1.60	5.00	ug/L
117-84-0	Di-n-octyl phthalate	44.5		2.30	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	48.8		0.49	5.00	ug/L

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB168285BS	SDG No.:	Q2198
Lab Sample ID:	PB168285BS	Matrix:	Water
Analytical Method:	8270E	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142727.D	1	06/04/25 11:45	06/11/25 11:21	PB168285

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
207-08-9	Benzo(k)fluoranthene	44.1		0.48	5.00	ug/L
50-32-8	Benzo(a)pyrene	46.7		0.55	5.00	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	45.0		0.59	5.00	ug/L
53-70-3	Dibenzo(a,h)anthracene	45.1		0.67	5.00	ug/L
191-24-2	Benzo(g,h,i)perylene	44.1		0.69	5.00	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	44.7		0.52	5.00	ug/L
123-91-1	1,4-Dioxane	36.8		1.00	5.00	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	46.1		0.72	5.00	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	126		15 (23) - 110 (138)	84%	SPK: 150
13127-88-3	Phenol-d6	127		15 (10) - 110 (134)	85%	SPK: 150
4165-60-0	Nitrobenzene-d5	77.8		30 (67) - 130 (132)	78%	SPK: 100
321-60-8	2-Fluorobiphenyl	76.2		30 (52) - 130 (132)	76%	SPK: 100
118-79-6	2,4,6-Tribromophenol	129		15 (44) - 110 (137)	86%	SPK: 150
1718-51-0	Terphenyl-d14	81.8		30 (42) - 130 (152)	82%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	75600	6.892			
1146-65-2	Naphthalene-d8	295000	8.175			
15067-26-2	Acenaphthene-d10	163000	9.933			
1517-22-2	Phenanthrene-d10	278000	11.427			
1719-03-5	Chrysene-d12	148000	14.068			
1520-96-3	Perylene-d12	157000	15.562			

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements
J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB168300BS	SDG No.:	Q2198
Lab Sample ID:	PB168300BS	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	100
Sample Wt/Vol:	30.02 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP024907.D	1	06/05/25 09:40	06/11/25 11:31	PB168300

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	1100		160	330	ug/Kg
108-95-2	Phenol	1500		22.1	170	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	1400		24.3	170	ug/Kg
95-57-8	2-Chlorophenol	1500		24.4	170	ug/Kg
95-48-7	2-Methylphenol	1400		29.9	170	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	1300		37.5	170	ug/Kg
98-86-2	Acetophenone	1400		29.5	170	ug/Kg
65794-96-9	3+4-Methylphenols	1400		41.1	330	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	1300		47.4	79.9	ug/Kg
67-72-1	Hexachloroethane	1300		17.6	170	ug/Kg
98-95-3	Nitrobenzene	1400		18.3	170	ug/Kg
78-59-1	Isophorone	1400		32.8	170	ug/Kg
88-75-5	2-Nitrophenol	1500		58.2	170	ug/Kg
105-67-9	2,4-Dimethylphenol	1500		64.8	170	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	1400		30.8	170	ug/Kg
120-83-2	2,4-Dichlorophenol	1600		28.3	170	ug/Kg
91-20-3	Naphthalene	1400		22.7	170	ug/Kg
106-47-8	4-Chloroaniline	1100		35.4	170	ug/Kg
87-68-3	Hexachlorobutadiene	1500		25.3	170	ug/Kg
105-60-2	Caprolactam	1400		52.1	330	ug/Kg
59-50-7	4-Chloro-3-methylphenol	1500		28.7	170	ug/Kg
91-57-6	2-Methylnaphthalene	1400		25.6	170	ug/Kg
77-47-4	Hexachlorocyclopentadiene	2900	E	120	330	ug/Kg
88-06-2	2,4,6-Trichlorophenol	1600		19.8	170	ug/Kg
95-95-4	2,4,5-Trichlorophenol	1600		29.1	170	ug/Kg
92-52-4	1,1-Biphenyl	1400		21.8	170	ug/Kg
91-58-7	2-Chloronaphthalene	1400		22.5	170	ug/Kg
88-74-4	2-Nitroaniline	1500		48.1	170	ug/Kg
131-11-3	Dimethylphthalate	1400		27.1	170	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB168300BS	SDG No.:	Q2198
Lab Sample ID:	PB168300BS	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	100
Sample Wt/Vol:	30.02 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP024907.D	1	06/05/25 09:40	06/11/25 11:31	PB168300

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	1400		28.9	170	ug/Kg
606-20-2	2,6-Dinitrotoluene	1500		33.6	170	ug/Kg
99-09-2	3-Nitroaniline	1200		46.0	170	ug/Kg
83-32-9	Acenaphthene	1400		21.3	170	ug/Kg
51-28-5	2,4-Dinitrophenol	2900	E	230	330	ug/Kg
100-02-7	4-Nitrophenol	2800	E	110	330	ug/Kg
132-64-9	Dibenzofuran	1400		22.7	170	ug/Kg
121-14-2	2,4-Dinitrotoluene	1500		50.1	170	ug/Kg
84-66-2	Diethylphthalate	1500		28.3	170	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	1500		26.7	170	ug/Kg
86-73-7	Fluorene	1400		25.3	170	ug/Kg
100-01-6	4-Nitroaniline	1600		64.2	170	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	1500		100	330	ug/Kg
86-30-6	n-Nitrosodiphenylamine	1500		32.9	170	ug/Kg
101-55-3	4-Bromophenyl-phenylether	1500		27.8	170	ug/Kg
118-74-1	Hexachlorobenzene	1500		25.3	170	ug/Kg
1912-24-9	Atrazine	1500		34.0	170	ug/Kg
87-86-5	Pentachlorophenol	3600	E	51.3	330	ug/Kg
85-01-8	Phenanthrene	1500		20.9	170	ug/Kg
120-12-7	Anthracene	1400		33.3	170	ug/Kg
86-74-8	Carbazole	1500		31.2	170	ug/Kg
84-74-2	Di-n-butylphthalate	1600		47.9	170	ug/Kg
206-44-0	Fluoranthene	1500		30.0	170	ug/Kg
129-00-0	Pyrene	1500		36.0	170	ug/Kg
85-68-7	Butylbenzylphthalate	1600		71.4	170	ug/Kg
91-94-1	3,3-Dichlorobenzidine	1200		36.7	330	ug/Kg
56-55-3	Benzo(a)anthracene	1500		23.0	170	ug/Kg
218-01-9	Chrysene	1500		19.9	170	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	1600		59.2	170	ug/Kg
117-84-0	Di-n-octyl phthalate	1600		86.7	330	ug/Kg
205-99-2	Benzo(b)fluoranthene	1600		19.0	170	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB168300BS	SDG No.:	Q2198
Lab Sample ID:	PB168300BS	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	100
Sample Wt/Vol:	30.02 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP024907.D	1	06/05/25 09:40	06/11/25 11:31	PB168300

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	1500		22.4	170	ug/Kg
50-32-8	Benzo(a)pyrene	1500		29.5	170	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	1500		29.1	170	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	1600		27.4	170	ug/Kg
191-24-2	Benzo(g,h,i)perylene	1500		25.7	170	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	1500		25.6	170	ug/Kg
123-91-1	1,4-Dioxane	1000		45.2	170	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	1600		27.4	170	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	130		30 (18) - 130 (112)	87%	SPK: 150
13127-88-3	Phenol-d6	125		30 (15) - 130 (107)	83%	SPK: 150
4165-60-0	Nitrobenzene-d5	75.1		30 (18) - 130 (107)	75%	SPK: 100
321-60-8	2-Fluorobiphenyl	75.5		30 (20) - 130 (109)	76%	SPK: 100
118-79-6	2,4,6-Tribromophenol	138		30 (10) - 130 (116)	92%	SPK: 150
1718-51-0	Terphenyl-d14	81.4		30 (10) - 130 (105)	81%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	284000	7.607			
1146-65-2	Naphthalene-d8	1120000	10.384			
15067-26-2	Acenaphthene-d10	705000	14.254			
1517-22-2	Phenanthrene-d10	1350000	17.06			
1719-03-5	Chrysene-d12	1420000	21.489			
1520-96-3	Perylene-d12	1630000	24.748			

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements
J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB168285BSD	SDG No.:	Q2198
Lab Sample ID:	PB168285BSD	Matrix:	Water
Analytical Method:	8270E	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142728.D	1	06/04/25 11:45	06/11/25 11:50	PB168285

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	31.8		3.90	10.0	ug/L
108-95-2	Phenol	44.2		0.91	5.00	ug/L
111-44-4	bis(2-Chloroethyl)ether	44.3		0.81	5.00	ug/L
95-57-8	2-Chlorophenol	45.8		0.58	5.00	ug/L
95-48-7	2-Methylphenol	46.2		1.10	5.00	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	42.8		1.30	5.00	ug/L
98-86-2	Acetophenone	45.1		0.74	5.00	ug/L
65794-96-9	3+4-Methylphenols	46.1		1.10	10.0	ug/L
621-64-7	n-Nitroso-di-n-propylamine	43.6		1.40	2.50	ug/L
67-72-1	Hexachloroethane	43.1		0.65	5.00	ug/L
98-95-3	Nitrobenzene	45.4		0.76	5.00	ug/L
78-59-1	Isophorone	44.8		0.75	5.00	ug/L
88-75-5	2-Nitrophenol	46.5		1.80	5.00	ug/L
105-67-9	2,4-Dimethylphenol	46.3		1.90	5.00	ug/L
111-91-1	bis(2-Chloroethoxy)methane	45.2		0.68	5.00	ug/L
120-83-2	2,4-Dichlorophenol	47.1		0.52	5.00	ug/L
91-20-3	Naphthalene	44.8		0.50	5.00	ug/L
106-47-8	4-Chloroaniline	14.4		0.84	5.00	ug/L
87-68-3	Hexachlorobutadiene	43.9		0.54	5.00	ug/L
105-60-2	Caprolactam	49.9		1.10	10.0	ug/L
59-50-7	4-Chloro-3-methylphenol	45.8		0.59	5.00	ug/L
91-57-6	2-Methylnaphthalene	44.9		0.56	5.00	ug/L
77-47-4	Hexachlorocyclopentadiene	94.2	E	3.60	10.0	ug/L
88-06-2	2,4,6-Trichlorophenol	47.2		0.51	5.00	ug/L
95-95-4	2,4,5-Trichlorophenol	45.9		0.62	5.00	ug/L
92-52-4	1,1-Biphenyl	45.0		0.53	5.00	ug/L
91-58-7	2-Chloronaphthalene	45.3		0.61	5.00	ug/L
88-74-4	2-Nitroaniline	45.4		1.30	5.00	ug/L
131-11-3	Dimethylphthalate	46.6		0.61	5.00	ug/L

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB168285BSD	SDG No.:	Q2198
Lab Sample ID:	PB168285BSD	Matrix:	Water
Analytical Method:	8270E	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142728.D	1	06/04/25 11:45	06/11/25 11:50	PB168285

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
208-96-8	Acenaphthylene	45.4		0.75	5.00	ug/L
606-20-2	2,6-Dinitrotoluene	46.1		0.92	5.00	ug/L
99-09-2	3-Nitroaniline	25.6		1.10	5.00	ug/L
83-32-9	Acenaphthene	49.9		0.55	5.00	ug/L
51-28-5	2,4-Dinitrophenol	110	E	6.00	10.0	ug/L
100-02-7	4-Nitrophenol	96.9	E	2.40	10.0	ug/L
132-64-9	Dibenzofuran	44.7		0.61	5.00	ug/L
121-14-2	2,4-Dinitrotoluene	47.6		1.20	5.00	ug/L
84-66-2	Diethylphthalate	46.6		0.69	5.00	ug/L
7005-72-3	4-Chlorophenyl-phenylether	45.1		0.68	5.00	ug/L
86-73-7	Fluorene	44.7		0.63	5.00	ug/L
100-01-6	4-Nitroaniline	46.6		1.50	5.00	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	48.8		2.90	10.0	ug/L
86-30-6	n-Nitrosodiphenylamine	45.1		0.58	5.00	ug/L
101-55-3	4-Bromophenyl-phenylether	45.2		0.40	5.00	ug/L
118-74-1	Hexachlorobenzene	44.6		0.52	5.00	ug/L
1912-24-9	Atrazine	49.8		1.00	5.00	ug/L
87-86-5	Pentachlorophenol	92.4	E	1.60	10.0	ug/L
85-01-8	Phenanthrene	44.9		0.50	5.00	ug/L
120-12-7	Anthracene	44.9		0.61	5.00	ug/L
86-74-8	Carbazole	46.0		0.72	5.00	ug/L
84-74-2	Di-n-butylphthalate	47.9		1.20	5.00	ug/L
206-44-0	Fluoranthene	44.9		0.82	5.00	ug/L
129-00-0	Pyrene	45.6		0.50	5.00	ug/L
85-68-7	Butylbenzylphthalate	50.3		1.90	5.00	ug/L
91-94-1	3,3-Dichlorobenzidine	22.2		0.93	10.0	ug/L
56-55-3	Benzo(a)anthracene	47.6		0.45	5.00	ug/L
218-01-9	Chrysene	44.8		0.44	5.00	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	48.5		1.60	5.00	ug/L
117-84-0	Di-n-octyl phthalate	47.1		2.30	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	46.5		0.49	5.00	ug/L

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB168285BSD	SDG No.:	Q2198
Lab Sample ID:	PB168285BSD	Matrix:	Water
Analytical Method:	8270E	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142728.D	1	06/04/25 11:45	06/11/25 11:50	PB168285

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
207-08-9	Benzo(k)fluoranthene	47.3		0.48	5.00	ug/L
50-32-8	Benzo(a)pyrene	47.5		0.55	5.00	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	46.3		0.59	5.00	ug/L
53-70-3	Dibenzo(a,h)anthracene	46.6		0.67	5.00	ug/L
191-24-2	Benzo(g,h,i)perylene	45.6		0.69	5.00	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	44.7		0.52	5.00	ug/L
123-91-1	1,4-Dioxane	36.5		1.00	5.00	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	46.0		0.72	5.00	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	125		15 (23) - 110 (138)	83%	SPK: 150
13127-88-3	Phenol-d6	127		15 (10) - 110 (134)	84%	SPK: 150
4165-60-0	Nitrobenzene-d5	79.4		30 (67) - 130 (132)	79%	SPK: 100
321-60-8	2-Fluorobiphenyl	77.6		30 (52) - 130 (132)	78%	SPK: 100
118-79-6	2,4,6-Tribromophenol	129		15 (44) - 110 (137)	86%	SPK: 150
1718-51-0	Terphenyl-d14	79.2		30 (42) - 130 (152)	79%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	80000	6.893			
1146-65-2	Naphthalene-d8	305000	8.181			
15067-26-2	Acenaphthene-d10	168000	9.939			
1517-22-2	Phenanthrene-d10	282000	11.428			
1719-03-5	Chrysene-d12	149000	14.069			
1520-96-3	Perylene-d12	160000	15.563			

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	06/02/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	06/04/25
Client Sample ID:	BU-703-COMP-05MS	SDG No.:	Q2198
Lab Sample ID:	Q2207-37MS	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	74
Sample Wt/Vol:	50.07 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142644.D	1	06/05/25 09:40	06/06/25 13:54	PB168300

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	860		130	270	ug/Kg
108-95-2	Phenol	1100		17.9	140	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	1100		19.7	140	ug/Kg
95-57-8	2-Chlorophenol	1100		19.8	140	ug/Kg
95-48-7	2-Methylphenol	1000		24.2	140	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	1100		30.4	140	ug/Kg
98-86-2	Acetophenone	1100		23.9	140	ug/Kg
65794-96-9	3+4-Methylphenols	990		33.3	270	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	970		38.4	64.8	ug/Kg
67-72-1	Hexachloroethane	1100		14.3	140	ug/Kg
98-95-3	Nitrobenzene	1100		14.8	140	ug/Kg
78-59-1	Isophorone	1000		26.6	140	ug/Kg
88-75-5	2-Nitrophenol	1200		47.1	140	ug/Kg
105-67-9	2,4-Dimethylphenol	1100		52.5	140	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	1100		24.9	140	ug/Kg
120-83-2	2,4-Dichlorophenol	1100		22.9	140	ug/Kg
91-20-3	Naphthalene	1100		18.4	140	ug/Kg
106-47-8	4-Chloroaniline	700		28.7	140	ug/Kg
87-68-3	Hexachlorobutadiene	1100		20.5	140	ug/Kg
105-60-2	Caprolactam	1100		42.2	270	ug/Kg
59-50-7	4-Chloro-3-methylphenol	1000		23.2	140	ug/Kg
91-57-6	2-Methylnaphthalene	1100		20.7	140	ug/Kg
77-47-4	Hexachlorocyclopentadiene	2100		93.9	270	ug/Kg
88-06-2	2,4,6-Trichlorophenol	1100		16.0	140	ug/Kg
95-95-4	2,4,5-Trichlorophenol	1100		23.6	140	ug/Kg
92-52-4	1,1-Biphenyl	1100		17.7	140	ug/Kg
91-58-7	2-Chloronaphthalene	1100		18.2	140	ug/Kg
88-74-4	2-Nitroaniline	1100		38.9	140	ug/Kg
131-11-3	Dimethylphthalate	1000		21.9	140	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	06/02/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	06/04/25
Client Sample ID:	BU-703-COMP-05MS	SDG No.:	Q2198
Lab Sample ID:	Q2207-37MS	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	74
Sample Wt/Vol:	50.07 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142644.D	1	06/05/25 09:40	06/06/25 13:54	PB168300

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	1100		23.4	140	ug/Kg
606-20-2	2,6-Dinitrotoluene	1100		27.2	140	ug/Kg
99-09-2	3-Nitroaniline	750		37.2	140	ug/Kg
83-32-9	Acenaphthene	1200		17.2	140	ug/Kg
51-28-5	2,4-Dinitrophenol	2200		190	270	ug/Kg
100-02-7	4-Nitrophenol	2100		86.6	270	ug/Kg
132-64-9	Dibenzofuran	1100		18.4	140	ug/Kg
121-14-2	2,4-Dinitrotoluene	1100		40.6	140	ug/Kg
84-66-2	Diethylphthalate	1000		22.9	140	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	1000		21.6	140	ug/Kg
86-73-7	Fluorene	1000		20.5	140	ug/Kg
100-01-6	4-Nitroaniline	1000		52.0	140	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	1200		83.4	270	ug/Kg
86-30-6	n-Nitrosodiphenylamine	1100		26.6	140	ug/Kg
101-55-3	4-Bromophenyl-phenylether	1100		22.5	140	ug/Kg
118-74-1	Hexachlorobenzene	1100		20.5	140	ug/Kg
1912-24-9	Atrazine	1200		27.5	140	ug/Kg
87-86-5	Pentachlorophenol	2100		41.5	270	ug/Kg
85-01-8	Phenanthrene	1100		16.9	140	ug/Kg
120-12-7	Anthracene	1100		27.0	140	ug/Kg
86-74-8	Carbazole	1100		25.3	140	ug/Kg
84-74-2	Di-n-butylphthalate	1100		38.8	140	ug/Kg
206-44-0	Fluoranthene	1100		24.3	140	ug/Kg
129-00-0	Pyrene	860		29.1	140	ug/Kg
85-68-7	Butylbenzylphthalate	1200		57.8	140	ug/Kg
91-94-1	3,3-Dichlorobenzidine	730		29.7	270	ug/Kg
56-55-3	Benzo(a)anthracene	1100		18.6	140	ug/Kg
218-01-9	Chrysene	1100		16.1	140	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	1200		47.9	140	ug/Kg
117-84-0	Di-n-octyl phthalate	1200		70.3	270	ug/Kg
205-99-2	Benzo(b)fluoranthene	1100		15.4	140	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	06/02/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	06/04/25
Client Sample ID:	BU-703-COMP-05MS	SDG No.:	Q2198
Lab Sample ID:	Q2207-37MS	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	74
Sample Wt/Vol:	50.07 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142644.D	1	06/05/25 09:40	06/06/25 13:54	PB168300

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	1000		18.1	140	ug/Kg
50-32-8	Benzo(a)pyrene	1100		23.9	140	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	980		23.6	140	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	980		22.2	140	ug/Kg
191-24-2	Benzo(g,h,i)perylene	940		20.8	140	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	1200		20.7	140	ug/Kg
123-91-1	1,4-Dioxane	1100		36.6	140	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	1000		22.2	140	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	71.5		30 (18) - 130 (112)	48%	SPK: 150
13127-88-3	Phenol-d6	81.3		30 (15) - 130 (107)	54%	SPK: 150
4165-60-0	Nitrobenzene-d5	40.9		30 (18) - 130 (107)	41%	SPK: 100
321-60-8	2-Fluorobiphenyl	36.2		30 (20) - 130 (109)	36%	SPK: 100
118-79-6	2,4,6-Tribromophenol	76.7		30 (10) - 130 (116)	51%	SPK: 150
1718-51-0	Terphenyl-d14	37.9		30 (10) - 130 (105)	38%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	118000	6.893			
1146-65-2	Naphthalene-d8	431000	8.181			
15067-26-2	Acenaphthene-d10	216000	9.934			
1517-22-2	Phenanthrene-d10	320000	11.422			
1719-03-5	Chrysene-d12	220000	14.069			
1520-96-3	Perylene-d12	274000	15.563			

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements
J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	06/02/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	06/04/25
Client Sample ID:	BU-703-COMP-05MSD	SDG No.:	Q2198
Lab Sample ID:	Q2207-37MSD	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	74
Sample Wt/Vol:	50.06 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142645.D	1	06/05/25 09:40	06/06/25 14:25	PB168300

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	910		130	270	ug/Kg
108-95-2	Phenol	1100		17.9	140	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	1100		19.7	140	ug/Kg
95-57-8	2-Chlorophenol	1100		19.8	140	ug/Kg
95-48-7	2-Methylphenol	1100		24.2	140	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	1100		30.4	140	ug/Kg
98-86-2	Acetophenone	1100		23.9	140	ug/Kg
65794-96-9	3+4-Methylphenols	1000		33.3	270	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	1000		38.4	64.8	ug/Kg
67-72-1	Hexachloroethane	1100		14.3	140	ug/Kg
98-95-3	Nitrobenzene	1100		14.8	140	ug/Kg
78-59-1	Isophorone	1100		26.6	140	ug/Kg
88-75-5	2-Nitrophenol	1200		47.1	140	ug/Kg
105-67-9	2,4-Dimethylphenol	1100		52.5	140	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	1100		24.9	140	ug/Kg
120-83-2	2,4-Dichlorophenol	1100		22.9	140	ug/Kg
91-20-3	Naphthalene	1100		18.4	140	ug/Kg
106-47-8	4-Chloroaniline	690		28.7	140	ug/Kg
87-68-3	Hexachlorobutadiene	1100		20.5	140	ug/Kg
105-60-2	Caprolactam	1200		42.2	270	ug/Kg
59-50-7	4-Chloro-3-methylphenol	1100		23.2	140	ug/Kg
91-57-6	2-Methylnaphthalene	1100		20.7	140	ug/Kg
77-47-4	Hexachlorocyclopentadiene	2200	E	93.9	270	ug/Kg
88-06-2	2,4,6-Trichlorophenol	1100		16.0	140	ug/Kg
95-95-4	2,4,5-Trichlorophenol	1200		23.6	140	ug/Kg
92-52-4	1,1-Biphenyl	1200		17.7	140	ug/Kg
91-58-7	2-Chloronaphthalene	1200		18.2	140	ug/Kg
88-74-4	2-Nitroaniline	1100		39.0	140	ug/Kg
131-11-3	Dimethylphthalate	1100		21.9	140	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	06/02/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	06/04/25
Client Sample ID:	BU-703-COMP-05MSD	SDG No.:	Q2198
Lab Sample ID:	Q2207-37MSD	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	74
Sample Wt/Vol:	50.06 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142645.D	1	06/05/25 09:40	06/06/25 14:25	PB168300

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	1100		23.4	140	ug/Kg
606-20-2	2,6-Dinitrotoluene	1100		27.2	140	ug/Kg
99-09-2	3-Nitroaniline	780		37.3	140	ug/Kg
83-32-9	Acenaphthene	1200		17.2	140	ug/Kg
51-28-5	2,4-Dinitrophenol	2300	E	190	270	ug/Kg
100-02-7	4-Nitrophenol	2200	E	86.7	270	ug/Kg
132-64-9	Dibenzofuran	1100		18.4	140	ug/Kg
121-14-2	2,4-Dinitrotoluene	1200		40.6	140	ug/Kg
84-66-2	Diethylphthalate	1100		22.9	140	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	1100		21.6	140	ug/Kg
86-73-7	Fluorene	1100		20.5	140	ug/Kg
100-01-6	4-Nitroaniline	1100		52.0	140	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	1300		83.4	270	ug/Kg
86-30-6	n-Nitrosodiphenylamine	1200		26.6	140	ug/Kg
101-55-3	4-Bromophenyl-phenylether	1200		22.5	140	ug/Kg
118-74-1	Hexachlorobenzene	1200		20.5	140	ug/Kg
1912-24-9	Atrazine	1300		27.5	140	ug/Kg
87-86-5	Pentachlorophenol	2200		41.5	270	ug/Kg
85-01-8	Phenanthrene	1100		16.9	140	ug/Kg
120-12-7	Anthracene	1100		27.0	140	ug/Kg
86-74-8	Carbazole	1200		25.3	140	ug/Kg
84-74-2	Di-n-butylphthalate	1200		38.8	140	ug/Kg
206-44-0	Fluoranthene	1100		24.3	140	ug/Kg
129-00-0	Pyrene	970		29.2	140	ug/Kg
85-68-7	Butylbenzylphthalate	1300		57.8	140	ug/Kg
91-94-1	3,3-Dichlorobenzidine	760		29.7	270	ug/Kg
56-55-3	Benzo(a)anthracene	1100		18.6	140	ug/Kg
218-01-9	Chrysene	1200		16.1	140	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	1300		47.9	140	ug/Kg
117-84-0	Di-n-octyl phthalate	1200		70.3	270	ug/Kg
205-99-2	Benzo(b)fluoranthene	1200		15.4	140	ug/Kg

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	06/02/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	06/04/25
Client Sample ID:	BU-703-COMP-05MSD	SDG No.:	Q2198
Lab Sample ID:	Q2207-37MSD	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	74
Sample Wt/Vol:	50.06 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142645.D	1	06/05/25 09:40	06/06/25 14:25	PB168300

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	1100		18.1	140	ug/Kg
50-32-8	Benzo(a)pyrene	1200		23.9	140	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	1000		23.6	140	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	1000		22.2	140	ug/Kg
191-24-2	Benzo(g,h,i)perylene	990		20.8	140	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	1200		20.7	140	ug/Kg
123-91-1	1,4-Dioxane	1100		36.6	140	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	1100		22.2	140	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	74.9		30 (18) - 130 (112)	50%	SPK: 150
13127-88-3	Phenol-d6	85.4		30 (15) - 130 (107)	57%	SPK: 150
4165-60-0	Nitrobenzene-d5	41.4		30 (18) - 130 (107)	41%	SPK: 100
321-60-8	2-Fluorobiphenyl	37.5		30 (20) - 130 (109)	38%	SPK: 100
118-79-6	2,4,6-Tribromophenol	83.1		30 (10) - 130 (116)	55%	SPK: 150
1718-51-0	Terphenyl-d14	43.4		30 (10) - 130 (105)	43%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	121000	6.892			
1146-65-2	Naphthalene-d8	453000	8.181			
15067-26-2	Acenaphthene-d10	228000	9.939			
1517-22-2	Phenanthrene-d10	351000	11.427			
1719-03-5	Chrysene-d12	216000	14.068			
1520-96-3	Perylene-d12	268000	15.562			

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements
J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

CALIBRATION SUMMARY

Response Factor Report BNA_F

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF052025.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Tue May 20 16:26:47 2025
Response Via : Initial Calibration

Calibration Files
2.5 =BF142467.D 5 =BF142468.D 10 =BF142469.D 20 =BF142470.D 40 =BF142471.D 50 =BF142472.D 60 =BF142473.D 80 =BF1424
74.D

		Compound	2.5	5	10	20	40	50	60	80	Avg	%RSD
1)	I	1,4-Dichlorobenzen...	----------ISTD----------									
2)		1,4-Dioxane		0.493	0.460	0.474	0.458	0.500	0.486	0.456	0.475	3.79
3)		Pyridine		1.237	1.150	1.212	1.170	1.273	1.234	1.190	1.210	3.52
4)		n-Nitrosodimet...		0.612	0.593	0.627	0.619	0.673	0.652	0.621	0.628	4.21
5)	S	2-Fluorophenol		1.264	1.214	1.225	1.125	1.220	1.164	1.098	1.187	5.03
6)		Aniline		2.044	1.889	1.963	1.844	1.993	1.910	1.808	1.921	4.35
7)	S	Phenol-d6		1.530	1.449	1.459	1.367	1.467	1.403	1.328	1.429	4.77
8)		2-Chlorophenol		1.345	1.293	1.315	1.252	1.338	1.285	1.223	1.293	3.44
9)		Benzaldehyde		1.035	0.975	0.969	0.817	0.872	0.758	0.591	0.859	17.81
10)	C	Phenol		1.716	1.621	1.646	1.530	1.657	1.597	1.487	1.608	4.85
11)		bis(2-Chloroet...		1.202	1.155	1.168	1.108	1.209	1.156	1.105	1.157	3.52
12)		1,3-Dichlorobe...		1.562	1.470	1.473	1.389	1.482	1.407	1.317	1.443	5.48
13)	C	1,4-Dichlorobe...		1.540	1.476	1.491	1.407	1.495	1.430	1.335	1.453	4.70
14)		1,2-Dichlorobe...		1.495	1.405	1.436	1.327	1.432	1.357	1.284	1.391	5.20
15)		Benzyl Alcohol		1.059	1.024	1.058	1.021	1.131	1.073	1.026	1.056	3.69
16)		2,2'-oxybis(1-...		2.082	1.978	1.983	1.868	2.011	1.898	1.786	1.944	5.11
17)		2-Methylphenol		1.040	0.992	1.026	0.976	1.053	1.015	0.965	1.010	3.27
18)		Hexachloroethane		0.533	0.503	0.523	0.489	0.529	0.497	0.477	0.507	4.23
19)	P	n-Nitroso-di-n...	0.923	0.941	0.880	0.900	0.843	0.912	0.866	0.819	0.886	4.69
20)		3+4-Methylphenols		1.412	1.319	1.337	1.246	1.337	1.250	1.149	1.293	6.59
21)	I	Naphthalene-d8	----------ISTD----------									
22)		Acetophenone		0.480	0.453	0.459	0.429	0.452	0.428	0.399	0.443	5.98
23)	S	Nitrobenzene-d5		0.376	0.365	0.379	0.356	0.382	0.363	0.347	0.367	3.51
24)		Nitrobenzene		0.338	0.328	0.338	0.323	0.343	0.331	0.316	0.331	2.94
25)		Isophorone		0.636	0.615	0.620	0.593	0.638	0.607	0.585	0.613	3.26
26)	C	2-Nitrophenol		0.167	0.170	0.180	0.175	0.190	0.182	0.173	0.177	4.44
27)		2,4-Dimethylph...		0.315	0.315	0.318	0.303	0.325	0.312	0.295	0.312	3.22
28)		bis(2-Chloroet...		0.406	0.394	0.394	0.364	0.391	0.375	0.358	0.383	4.63
29)	C	2,4-Dichloroph...		0.288	0.282	0.290	0.276	0.300	0.283	0.266	0.283	3.74
30)		1,2,4-Trichlor...		0.325	0.313	0.317	0.295	0.320	0.300	0.284	0.308	4.89
31)		Naphthalene		1.061	1.021	1.020	0.941	1.007	0.953	0.891	0.985	5.94
32)		Benzoic acid			0.153	0.176	0.188	0.211	0.209	0.201	0.190	11.73
33)		4-Chloroaniline		0.424	0.409	0.416	0.389	0.415	0.397	0.343	0.399	6.87
34)	C	Hexachlorobuta...		0.203	0.192	0.197	0.187	0.198	0.192	0.176	0.192	4.52
35)		Caprolactam		0.081	0.076	0.083	0.079	0.085	0.078	0.076	0.080	4.29
36)	C	4-Chloro-3-met...		0.304	0.290	0.299	0.282	0.301	0.287	0.271	0.291	4.02
37)		2-Methylnaphth...		0.679	0.638	0.646	0.590	0.631	0.598	0.556	0.620	6.62
38)		1-Methylnaphth...		0.703	0.668	0.672	0.615	0.650	0.611	0.566	0.641	7.19

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF052025.M

39)	I	Acenaphthene-d10	----------ISTD----------								
40)		1,2,4,5-Tetrac...	0.592	0.580	0.588	0.552	0.592	0.573	0.544	0.574	3.39
41)	P	Hexachlorocycl...	0.318	0.350	0.383	0.393	0.430	0.425	0.411	0.387	10.57
42)	S	2,4,6-Tribromo...	0.230	0.225	0.234	0.211	0.233	0.218	0.202	0.222	5.39
43)	C	2,4,6-Trichlor...	0.387	0.373	0.406	0.371	0.406	0.388	0.379	0.387	3.69
44)		2,4,5-Trichlor...	0.410	0.411	0.416	0.395	0.437	0.408	0.381	0.408	4.27
45)	S	2-Fluorobiphenyl	1.726	1.619	1.558	1.387	1.480	1.396	1.268	1.490	10.46
46)		1,1'-Biphenyl	1.672	1.605	1.595	1.480	1.595	1.507	1.408	1.552	5.82
47)		2-Chloronaphth...	1.218	1.170	1.177	1.094	1.183	1.122	1.061	1.146	4.84
48)		2-Nitroaniline	0.333	0.318	0.338	0.324	0.354	0.332	0.320	0.331	3.72
49)		Acenaphthylene	2.064	1.982	2.027	1.851	1.998	1.885	1.745	1.936	5.85
50)		Dimethylphthalate	1.441	1.340	1.367	1.255	1.366	1.256	1.211	1.320	6.16
51)		2,6-Dinitrotol...	0.290	0.283	0.289	0.280	0.302	0.281	0.268	0.285	3.74
52)	C	Acenaphthene	1.259	1.222	1.227	1.120	1.223	1.146	1.077	1.182	5.72
53)		3-Nitroaniline	0.320	0.309	0.327	0.299	0.330	0.305	0.287	0.311	5.02
54)	P	2,4-Dinitrophenol		0.110	0.137	0.149	0.169	0.160	0.158	0.147	14.36
55)		Dibenzofuran	1.886	1.766	1.768	1.606	1.736	1.635	1.509	1.701	7.38
56)	P	4-Nitrophenol	0.221	0.217	0.242	0.227	0.252	0.229	0.220	0.230	5.57
57)		2,4-Dinitrotol...	0.372	0.367	0.387	0.364	0.398	0.372	0.344	0.372	4.62
58)		Fluorene	1.477	1.399	1.372	1.231	1.343	1.238	1.140	1.314	8.85
59)		2,3,4,6-Tetrac...	0.347	0.336	0.360	0.333	0.361	0.333	0.317	0.341	4.71
60)		Diethylphthalate	1.422	1.310	1.359	1.231	1.343	1.218	1.140	1.289	7.51
61)		4-Chlorophenyl...	0.724	0.678	0.676	0.609	0.653	0.612	0.566	0.646	8.25
62)		4-Nitroaniline	0.303	0.283	0.303	0.277	0.294	0.265	0.251	0.282	6.95
63)		Azobenzene	1.239	1.194	1.188	1.107	1.197	1.123	1.055	1.158	5.55
64)	I	Phenanthrene-d10	----------ISTD----------								
65)		4,6-Dinitro-2-...	0.086	0.094	0.110	0.115	0.129	0.125	0.123	0.112	14.72
66)	c	n-Nitrosodiphe...	0.712	0.682	0.696	0.649	0.697	0.694	0.660	0.684	3.30
67)		4-Bromophenyl-...	0.240	0.235	0.239	0.222	0.246	0.243	0.230	0.236	3.45
68)		Hexachlorobenzene	0.265	0.267	0.263	0.251	0.273	0.262	0.250	0.262	3.19
69)		Atrazine	0.184	0.174	0.186	0.178	0.196	0.181	0.174	0.182	4.29
70)	C	Pentachlorophenol	0.130	0.135	0.149	0.147	0.162	0.157	0.154	0.148	7.88
71)		Phenanthrene	1.196	1.094	1.100	1.012	1.085	1.033	0.964	1.069	7.00
72)		Anthracene	1.191	1.132	1.124	1.036	1.110	1.048	0.996	1.091	6.15
73)		Carbazole	1.030	0.968	0.982	0.889	0.950	0.877	0.832	0.933	7.39
74)		Di-n-butylphth...	1.108	1.039	1.083	0.976	1.059	0.974	0.908	1.021	6.95
75)	C	Fluoranthene	1.177	1.081	1.052	0.938	0.997	0.901	0.846	0.999	11.41
76)	I	Chrysene-d12	----------ISTD----------								
77)		Benzidine	0.670	0.782	0.903	0.797	0.805	0.698	0.556	0.744	15.12
78)		Pyrene	1.929	1.967	2.066	1.859	1.959	1.773	1.507	1.866	9.79
79)	S	Terphenyl-d14	1.624	1.582	1.660	1.423	1.492	1.337	1.126	1.464	12.80
80)		Butylbenzylpht...	0.462	0.453	0.525	0.526	0.575	0.550	0.517	0.516	8.54
81)		Benzo(a)anthra...	1.424	1.287	1.403	1.278	1.391	1.327	1.238	1.336	5.36
82)		3,3'-Dichlorob...	0.360	0.364	0.402	0.407	0.444	0.442	0.417	0.405	8.30
83)		Chrysene	1.222	1.204	1.193	1.145	1.255	1.223	1.158	1.200	3.20
84)		Bis(2-ethylhex...	0.510	0.548	0.618	0.673	0.765	0.778	0.727	0.660	15.91
85)	c	Di-n-octyl pht...		0.958	1.108	1.266	1.432	1.542	1.437	1.290	17.30

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF052025.M

86)	I	Perylene-d12	----------ISTD----------							
87)		Indeno(1,2,3-c...	1.421	1.495	1.583	1.448	1.583	1.546	1.434	1.501	4.64
88)		Benzo(b)fluora...	1.317	1.105	1.293	1.126	1.209	1.122	1.114	1.184	7.62
89)		Benzo(k)fluora...	1.191	1.166	1.032	1.042	1.178	1.128	1.023	1.109	6.68
90)	C	Benzo(a)pyrene	1.154	1.081	1.114	1.081	1.185	1.133	1.062	1.116	4.00
91)		Dibenzo(a,h)an...	1.152	1.228	1.275	1.184	1.290	1.245	1.149	1.218	4.67
92)		Benzo(g,h,i)pe...	1.154	1.220	1.270	1.180	1.299	1.245	1.158	1.218	4.64

(#) = Out of Range

Response Factor Report BNA_F

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF061125.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Wed Jun 11 05:56:09 2025
Response Via : Initial Calibration

Calibration Files
2.5 =BF142712.D 5.0 =BF142713.D 10 =BF142714.D 20 =BF142715.D 40 =BF142716.D 50 =BF142717.D 60 =BF142718.D 80 =BF1427
19.D

		Compound	2.5	5.0	10	20	40	50	60	80	Avg	%RSD
1)	I	1,4-Dichlorobenzen...	----------	ISTD	----------							
2)		1,4-Dioxane		0.499	0.448	0.472	0.455	0.481	0.460	0.439	0.465	4.40
3)		Pyridine		1.172	1.129	1.159	1.160	1.222	1.193	1.122	1.165	3.00
4)		n-Nitrosodimet...			0.558	0.590	0.591	0.633	0.617	0.588	0.596	4.36
5)	S	2-Fluorophenol		1.238	1.170	1.199	1.161	1.220	1.156	1.075	1.174	4.55
6)		Aniline		1.866	1.788	1.894	1.848	1.955	1.861	1.736	1.850	3.83
7)	S	Phenol-d6		1.434	1.339	1.400	1.376	1.446	1.377	1.302	1.382	3.67
8)		2-Chlorophenol		1.288	1.254	1.300	1.290	1.347	1.286	1.219	1.283	3.09
9)		Benzaldehyde			0.943	0.950	0.839	0.839	0.708		0.856	11.52
10)	C	Phenol		1.550	1.503	1.577	1.522	1.607	1.547	1.446	1.536	3.42
11)		bis(2-Chloroet...		1.222	1.118	1.149	1.130	1.202	1.131	1.079	1.147	4.29
12)		1,3-Dichlorobe...		1.557	1.483	1.504	1.451	1.513	1.411	1.333	1.465	5.08
13)	C	1,4-Dichlorobe...		1.596	1.483	1.519	1.454	1.528	1.431	1.349	1.480	5.34
14)		1,2-Dichlorobe...		1.554	1.418	1.444	1.401	1.457	1.375	1.282	1.419	5.83
15)		Benzyl Alcohol			0.970	1.049	1.059	1.121	1.061	1.007	1.045	4.95
16)		2,2'-oxybis(1-...		1.957	1.812	1.840	1.806	1.875	1.746	1.609	1.806	6.03
17)		2-Methylphenol		0.978	0.950	0.995	0.992	1.043	0.995	0.933	0.984	3.61
18)		Hexachloroethane		0.562	0.521	0.545	0.524	0.552	0.522	0.488	0.530	4.69
19)	P	n-Nitroso-di-n...	0.885	0.912	0.870	0.886	0.878	0.921	0.863	0.823	0.880	3.43
20)		3+4-Methylphenols			1.261	1.285	1.246	1.299	1.218	1.134	1.240	4.80
21)	I	Naphthalene-d8	----------	ISTD	----------							
22)		Acetophenone		0.475	0.451	0.458	0.435	0.454	0.433	0.408	0.445	4.79
23)	S	Nitrobenzene-d5		0.381	0.363	0.369	0.358	0.378	0.363	0.346	0.365	3.24
24)		Nitrobenzene		0.338	0.313	0.326	0.320	0.335	0.327	0.312	0.324	3.10
25)		Isophorone		0.657	0.621	0.628	0.603	0.630	0.606	0.585	0.619	3.77
26)	C	2-Nitrophenol		0.172	0.174	0.183	0.181	0.192	0.187	0.178	0.181	3.92
27)		2,4-Dimethylph...		0.318	0.303	0.311	0.304	0.321	0.308	0.292	0.308	3.14
28)		bis(2-Chloroet...		0.408	0.381	0.392	0.377	0.397	0.378	0.356	0.384	4.31
29)	C	2,4-Dichloroph...		0.284	0.281	0.292	0.280	0.300	0.285	0.269	0.284	3.51
30)		1,2,4-Trichlor...		0.337	0.313	0.322	0.306	0.322	0.307	0.294	0.314	4.42
31)		Naphthalene		1.065	0.997	1.021	0.972	1.008	0.958	0.903	0.989	5.20
32)		Benzoic acid			0.137	0.162	0.174	0.192	0.190	0.186	0.174	12.16
33)		4-Chloroaniline		0.429	0.389	0.399	0.399	0.408	0.386	0.370	0.397	4.68
34)	C	Hexachlorobuta...		0.210	0.204	0.206	0.197	0.205	0.196	0.184	0.200	4.41
35)		Caprolactam			0.077	0.079	0.075	0.079	0.077	0.074	0.077	2.82
36)	C	4-Chloro-3-met...		0.317	0.299	0.303	0.289	0.301	0.287	0.273	0.296	4.76
37)		2-Methylnaphth...		0.674	0.649	0.641	0.618	0.636	0.599	0.565	0.626	5.72
38)		1-Methylnaphth...		0.727	0.666	0.669	0.629	0.650	0.619	0.580	0.649	7.16

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF061125.M

39)	I	Acenaphthene-d10	----------ISTD----------								
40)		1,2,4,5-Tetrac...	0.585	0.592	0.589	0.568	0.618	0.570	0.531	0.579	4.64
41)	P	Hexachlorocycl...		0.297	0.348	0.375	0.414	0.400	0.396	0.372	11.64
42)	S	2,4,6-Tribromo...	0.236	0.223	0.224	0.213	0.226	0.210	0.202	0.219	5.28
43)	C	2,4,6-Trichlor...	0.349	0.373	0.383	0.373	0.405	0.380	0.359	0.375	4.79
44)		2,4,5-Trichlor...	0.404	0.404	0.413	0.400	0.431	0.399	0.383	0.405	3.61
45)	S	2-Fluorobiphenyl	1.690	1.610	1.569	1.444	1.535	1.402	1.289	1.505	9.04
46)		1,1'-Biphenyl	1.630	1.617	1.587	1.506	1.622	1.500	1.409	1.553	5.39
47)		2-Chloronaphth...	1.190	1.172	1.178	1.117	1.197	1.108	1.047	1.144	4.82
48)		2-Nitroaniline	0.320	0.321	0.333	0.323	0.345	0.325	0.311	0.325	3.38
49)		Acenaphthylene	2.053	1.986	2.003	1.881	1.991	1.847	1.744	1.929	5.65
50)		Dimethylphthalate	1.444	1.368	1.359	1.291	1.379	1.273	1.234	1.336	5.42
51)		2,6-Dinitrotol...	0.307	0.283	0.295	0.285	0.299	0.283	0.268	0.289	4.49
52)	C	Acenaphthene	1.266	1.222	1.224	1.170	1.237	1.155	1.099	1.196	4.80
53)		3-Nitroaniline	0.334	0.313	0.316	0.307	0.322	0.304	0.295	0.313	4.08
54)	P	2,4-Dinitrophenol		0.123	0.154	0.157	0.176	0.170	0.169	0.158	12.18
55)		Dibenzofuran	1.855	1.777	1.783	1.643	1.741	1.607	1.517	1.703	6.93
56)	P	4-Nitrophenol		0.203	0.219	0.210	0.222	0.212	0.208	0.212	3.42
57)		2,4-Dinitrotol...	0.396	0.383	0.399	0.377	0.396	0.372	0.348	0.382	4.73
58)		Fluorene	1.547	1.429	1.397	1.279	1.357	1.240	1.167	1.345	9.49
59)		2,3,4,6-Tetrac...	0.364	0.339	0.357	0.327	0.354	0.332	0.311	0.340	5.58
60)		Diethylphthalate	1.508	1.392	1.372	1.256	1.332	1.246	1.164	1.324	8.55
61)		4-Chlorophenyl...	0.748	0.692	0.680	0.633	0.663	0.610	0.571	0.657	8.84
62)		4-Nitroaniline	0.297	0.281	0.294	0.270	0.283	0.275	0.261	0.280	4.58
63)		Azobenzene	1.290	1.186	1.178	1.115	1.187	1.094	1.045	1.157	6.89
64)	I	Phenanthrene-d10	----------ISTD----------								
65)		4,6-Dinitro-2-...		0.104	0.123	0.125	0.137	0.133	0.129	0.125	9.17
66)	c	n-Nitrosodiphe...	0.710	0.679	0.693	0.672	0.722	0.685	0.651	0.687	3.45
67)		4-Bromophenyl-...	0.240	0.229	0.238	0.231	0.252	0.236	0.227	0.236	3.52
68)		Hexachlorobenzene	0.270	0.261	0.263	0.255	0.275	0.260	0.251	0.262	3.17
69)		Atrazine	0.185	0.174	0.188	0.179	0.191	0.188	0.178	0.183	3.33
70)	C	Pentachlorophenol		0.118	0.133	0.139	0.148	0.144	0.142	0.137	7.80
71)		Phenanthrene	1.165	1.100	1.094	1.036	1.091	1.035	0.978	1.071	5.61
72)		Anthracene	1.203	1.145	1.140	1.064	1.132	1.072	1.004	1.108	5.96
73)		Carbazole	1.003	0.960	0.968	0.898	0.931	0.903	0.832	0.928	6.07
74)		Di-n-butylphth...	1.105	1.048	1.072	1.005	1.053	1.017	0.953	1.036	4.76
75)	C	Fluoranthene	1.184	1.083	1.081	0.965	0.988	0.953	0.878	1.019	10.08
76)	I	Chrysene-d12	----------ISTD----------								
77)		Benzidine		0.711	0.772	0.799	0.754	0.684	0.553	0.712	12.40
78)		Pyrene	2.014	1.918	1.928	1.883	1.878	1.753	1.635	1.859	6.75
79)	S	Terphenyl-d14	1.609	1.562	1.556	1.462	1.430	1.327	1.247	1.456	9.11
80)		Butylbenzylpht...	0.435	0.486	0.526	0.581	0.626	0.605	0.588	0.550	12.67
81)		Benzo(a)anthra...	1.367	1.273	1.284	1.350	1.400	1.340	1.263	1.325	3.94
82)		3,3'-Dichlorob...		0.370	0.403	0.442	0.473	0.459	0.418	0.427	8.88
83)		Chrysene	1.298	1.208	1.245	1.172	1.250	1.222	1.170	1.224	3.72
84)		Bis(2-ethylhex...	0.616	0.709	0.756	0.895	0.977	0.926	0.896	0.825	16.02
85)	c	Di-n-octyl pht...		1.284	1.385	1.677	1.816	1.680	1.654	1.582	12.84

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF061125.M

86)	I	Perylene-d12	----------ISTD----------							
87)		Indeno(1,2,3-c...	1.438	1.406	1.458	1.498	1.602	1.514	1.460	1.482	4.31
88)		Benzo(b)fluora...	1.256	1.094	1.112	1.162	1.230	1.251	1.139	1.178	5.71
89)		Benzo(k)fluora...	1.236	1.178	1.245	1.076	1.189	1.035	1.039	1.143	7.94
90)	C	Benzo(a)pyrene	1.164	1.085	1.122	1.104	1.184	1.111	1.068	1.120	3.70
91)		Dibenzo(a,h)an...	1.134	1.176	1.214	1.236	1.318	1.222	1.172	1.210	4.87
92)		Benzo(g,h,i)pe...	1.201	1.164	1.178	1.216	1.295	1.207	1.163	1.203	3.77

(#) = Out of Range

Response Factor Report MSBNA_P

Method Path : Z:\svoasrv\HPCHEM1\BNA_P\Methods\
Method File : 8270E-BP060625.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Fri Jun 06 16:20:27 2025
Response Via : Initial Calibration

Calibration Files
2.5 =BP024860.D 5 =BP024861.D 10 =BP024862.D 20 =BP024863.D 40 =BP024864.D 50 =BP024865.D 60 =BP024866.D 80 =BP0248
67.D

		Compound	2.5	5	10	20	40	50	60	80	Avg	%RSD
1)	I	1,4-Dichlorobenzen...	----------ISTD----------									
2)		1,4-Dioxane		0.564	0.529	0.524	0.495	0.546	0.515	0.517	0.527	4.21
3)		Pyridine		1.151	1.183	1.265	1.226	1.370	1.367	1.315	1.268	6.84
4)		n-Nitrosodimet...			0.478	0.509	0.502	0.542	0.554	0.525	0.518	5.36
5)	S	2-Fluorophenol		1.127	1.139	1.207	1.163	1.283	1.253	1.215	1.198	4.85
6)		Aniline		1.917	1.892	2.016	1.978	2.145	2.182	2.031	2.023	5.37
7)	S	Phenol-d6		1.507	1.528	1.588	1.545	1.676	1.689	1.564	1.585	4.49
8)		2-Chlorophenol		1.336	1.290	1.346	1.314	1.453	1.422	1.348	1.358	4.29
9)		Benzaldehyde			1.038	1.071	0.873	0.985	0.869	0.646	0.914	16.98
10)	C	Phenol		1.560	1.564	1.616	1.587	1.725	1.759	1.629	1.634	4.78
11)		bis(2-Chloroet...		1.222	1.277	1.334	1.234	1.363	1.322	1.246	1.285	4.26
12)		1,3-Dichlorobe...		1.570	1.515	1.537	1.425	1.571	1.519	1.471	1.515	3.49
13)	C	1,4-Dichlorobe...		1.596	1.507	1.535	1.439	1.604	1.534	1.488	1.529	3.82
14)		1,2-Dichlorobe...		1.529	1.637	1.488	1.401	1.540	1.492	1.422	1.501	5.25
15)		Benzyl Alcohol			1.137	1.185	1.170	1.289	1.309	1.211	1.217	5.63
16)		2,2'-oxybis(1-...		1.748	1.732	1.722	1.583	1.751	1.667	1.574	1.682	4.54
17)		2-Methylphenol		1.053	1.149	1.138	1.106	1.210	1.211	1.121	1.141	4.94
18)		Hexachloroethane		0.591	0.565	0.581	0.545	0.611	0.574	0.562	0.576	3.73
19)	P	n-Nitroso-di-n...	0.984	1.101	1.105	1.107	1.043	1.141	1.113	1.029	1.078	4.93
20)		3+4-Methylphenols			1.507	1.548	1.493	1.631	1.648	1.515	1.557	4.29
21)	I	Naphthalene-d8	----------ISTD----------									
22)		Acetophenone		0.506	0.521	0.511	0.491	0.535	0.510	0.463	0.505	4.58
23)	S	Nitrobenzene-d5		0.407	0.397	0.423	0.404	0.444	0.423	0.383	0.412	4.89
24)		Nitrobenzene		0.366	0.351	0.375	0.360	0.392	0.376	0.339	0.366	4.81
25)		Isophorone		0.704	0.678	0.724	0.694	0.764	0.726	0.704	0.713	3.91
26)	C	2-Nitrophenol		0.154	0.157	0.178	0.180	0.201	0.195	0.198	0.180	10.62
27)		2,4-Dimethylph...		0.294	0.286	0.310	0.303	0.331	0.320	0.318	0.309	5.12
28)		bis(2-Chloroet...		0.414	0.408	0.438	0.414	0.465	0.423	0.416	0.426	4.70
29)	C	2,4-Dichloroph...		0.246	0.272	0.300	0.292	0.327	0.313	0.323	0.296	9.81
30)		1,2,4-Trichlor...		0.335	0.319	0.335	0.317	0.352	0.330	0.351	0.334	4.16
31)		Naphthalene		1.071	1.022	1.044	0.989	1.079	1.035	0.935	1.025	4.86
32)		Benzoic acid			0.159	0.181	0.204	0.230	0.235	0.243	0.209	16.01
33)		4-Chloroaniline		0.397	0.401	0.435	0.426	0.471	0.463	0.414	0.429	6.72
34)	C	Hexachlorobuta...		0.203	0.199	0.208	0.194	0.218	0.198	0.189	0.201	4.76
35)		Caprolactam			0.098	0.109	0.110	0.118	0.116	0.104	0.109	6.91
36)	C	4-Chloro-3-met...		0.312	0.322	0.351	0.341	0.374	0.363	0.329	0.342	6.58
37)		2-Methylnaphth...		0.659	0.638	0.659	0.633	0.696	0.664	0.602	0.650	4.54
38)		1-Methylnaphth...		0.720	0.680	0.718	0.671	0.741	0.693	0.643	0.695	4.86

Method Path : Z:\svoasrv\HPCHEM1\BNA_P\Methods\
Method File : 8270E-BP060625.M

39)	I	Acenaphthene-d10	----------ISTD----------								
40)		1,2,4,5-Tetrac...	0.568	0.561	0.568	0.538	0.601	0.574	0.562	0.568	3.31
41)	P	Hexachlorocycl...		0.259	0.315	0.337	0.404	0.369	0.394	0.346	15.74
42)	S	2,4,6-Tribromo...	0.256	0.264	0.279	0.267	0.298	0.286	0.285	0.277	5.26
43)	C	2,4,6-Trichlor...	0.342	0.352	0.386	0.375	0.411	0.404	0.396	0.381	6.86
44)		2,4,5-Trichlor...	0.349	0.379	0.414	0.405	0.448	0.436	0.426	0.408	8.44
45)	S	2-Fluorobiphenyl	1.542	1.507	1.517	1.390	1.563	1.464	1.409	1.485	4.44
46)		1,1'-Biphenyl	1.477	1.456	1.485	1.386	1.509	1.458	1.403	1.453	3.05
47)		2-Chloronaphth...	1.123	1.104	1.135	1.069	1.171	1.136	1.081	1.117	3.16
48)		2-Nitroaniline	0.289	0.324	0.344	0.346	0.371	0.374	0.355	0.343	8.59
49)		Acenaphthylene	1.880	1.851	1.892	1.768	1.939	1.904	1.805	1.863	3.19
50)		Dimethylphthalate	1.515	1.450	1.501	1.400	1.550	1.473	1.438	1.475	3.45
51)		2,6-Dinitrotol...	0.299	0.301	0.326	0.312	0.339	0.333	0.317	0.318	4.86
52)	C	Acenaphthene	1.106	1.064	1.090	1.020	1.087	1.069	1.036	1.067	2.86
53)		3-Nitroaniline	0.263	0.292	0.337	0.338	0.367	0.364	0.349	0.330	11.74
54)	P	2,4-Dinitrophenol		0.117	0.155	0.179	0.203	0.208	0.205	0.178	20.23
55)		Dibenzofuran	1.815	1.721	1.756	1.627	1.757	1.702	1.615	1.713	4.22
56)	P	4-Nitrophenol		0.142	0.213	0.248	0.276	0.281	0.275	0.239	22.62
57)		2,4-Dinitrotol...	0.390	0.416	0.457	0.437	0.487	0.470	0.458	0.445	7.45
58)		Fluorene	1.437	1.394	1.420	1.304	1.434	1.370	1.329	1.384	3.77
59)		2,3,4,6-Tetrac...	0.343	0.350	0.360	0.354	0.395	0.381	0.370	0.365	5.04
60)		Diethylphthalate	1.501	1.474	1.487	1.393	1.545	1.444	1.449	1.470	3.27
61)		4-Chlorophenyl...	0.711	0.668	0.689	0.637	0.709	0.665	0.658	0.677	4.06
62)		4-Nitroaniline	0.239	0.235	0.307	0.311	0.336	0.333	0.334	0.299	14.69
63)		Azobenzene	1.346	1.334	1.394	1.300	1.425	1.335	1.307	1.349	3.37
64)	I	Phenanthrene-d10	----------ISTD----------								
65)		4,6-Dinitro-2-...		0.102	0.125	0.130	0.147	0.143	0.142	0.131	12.78
66)	c	n-Nitrosodiphe...	0.627	0.608	0.633	0.597	0.659	0.622	0.594	0.620	3.68
67)		4-Bromophenyl-...	0.224	0.215	0.226	0.213	0.246	0.229	0.226	0.226	4.83
68)		Hexachlorobenzene	0.278	0.268	0.272	0.260	0.290	0.275	0.272	0.274	3.31
69)		Atrazine	0.213	0.212	0.231	0.217	0.244	0.228	0.228	0.225	5.16
70)	C	Pentachlorophenol		0.105	0.131	0.139	0.162	0.153	0.159	0.142	15.21
71)		Phenanthrene	1.158	1.108	1.110	1.056	1.161	1.102	1.041	1.105	4.12
72)		Anthracene	1.129	1.093	1.137	1.072	1.188	1.133	1.083	1.119	3.58
73)		Carbazole	1.023	1.013	1.057	0.998	1.112	1.052	1.007	1.038	3.83
74)		Di-n-butylphth...	1.178	1.245	1.326	1.272	1.421	1.273	1.284	1.285	5.81
75)	C	Fluoranthene	1.300	1.287	1.307	1.223	1.344	1.268	1.238	1.281	3.25
76)	I	Chrysene-d12	----------ISTD----------								
77)		Benzidine		0.512	0.669	0.653	0.690	0.663	0.529	0.619	12.54
78)		Pyrene	1.307	1.195	1.261	1.184	1.322	1.272	1.206	1.249	4.41
79)	S	Terphenyl-d14	1.178	1.073	1.146	1.089	1.164	1.120	1.039	1.116	4.57
80)		Butylbenzylpht...	0.508	0.529	0.581	0.561	0.641	0.596	0.589	0.572	7.74
81)		Benzo(a)anthra...	1.312	1.234	1.288	1.219	1.347	1.310	1.243	1.279	3.73
82)		3,3'-Dichlorob...		0.468	0.513	0.493	0.542	0.531	0.501	0.508	5.29
83)		Chrysene	1.252	1.174	1.229	1.144	1.279	1.238	1.168	1.212	4.13
84)		Bis(2-ethylhex...	0.715	0.780	0.846	0.797	0.921	0.831	0.850	0.820	7.87
85)	c	Di-n-octyl pht...		1.320	1.438	1.384	1.587	1.470	1.473	1.445	6.25

Method Path : Z:\svoasrv\HPCHEM1\BNA_P\Methods\
Method File : 8270E-BP060625.M

86)	I	Perylene-d12	----------ISTD----------							
87)		Indeno(1,2,3-c...	1.427	1.402	1.469	1.412	1.559	1.510	1.436	1.459	3.92
88)		Benzo(b)fluora...	1.103	1.104	1.133	1.127	1.232	1.180	1.133	1.145	4.06
89)		Benzo(k)fluora...	1.165	1.144	1.180	1.106	1.259	1.158	1.144	1.165	4.05
90)	C	Benzo(a)pyrene	1.096	1.069	1.127	1.070	1.214	1.136	1.113	1.118	4.46
91)		Dibenzo(a,h)an...	1.151	1.143	1.202	1.143	1.279	1.224	1.172	1.188	4.25
92)		Benzo(g,h,i)pe...	1.172	1.127	1.183	1.136	1.261	1.214	1.157	1.179	3.95

(#) = Out of Range

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q2198 SAS No.: Q2198 SDG No.: Q2198

Instrument ID: BNA_F Calibration Date/Time: 06/05/2025 09:37

Lab File ID: BF142625.D Init. Calib. Date(s): 05/20/2025 05/20/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 12:10 15:31

GC Column: DB-UI ID: 0.18 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.187	1.156		-2.6	
Benzaldehyde	0.859	0.797		-7.2	
Phenol-d6	1.429	1.381		-3.4	
Phenol	1.608	1.568		-2.5	20.0
bis(2-Chloroethyl)ether	1.157	1.130		-2.3	
2-Chlorophenol	1.293	1.266		-2.1	
2-Methylphenol	1.010	0.977		-3.3	
2,2-oxybis(1-Chloropropane)	1.944	1.876		-3.5	
Acetophenone	0.443	0.410		-7.4	
3+4-Methylphenols	1.293	1.213		-6.2	
n-Nitroso-di-n-propylamine	0.886	0.819	0.050	-7.6	
Nitrobenzene-d5	0.367	0.346		-5.7	
Hexachloroethane	0.507	0.492		-3.0	
Nitrobenzene	0.331	0.312		-5.7	
Isophorone	0.613	0.566		-7.7	
2-Nitrophenol	0.177	0.174		-1.7	20.0
2,4-Dimethylphenol	0.312	0.301		-3.5	
bis(2-Chloroethoxy)methane	0.383	0.362		-5.5	
2,4-Dichlorophenol	0.283	0.271		-4.2	20.0
Naphthalene	0.985	0.923		-6.3	
4-Chloroaniline	0.399	0.383		-4.0	
Hexachlorobutadiene	0.192	0.176		-8.3	20.0
Caprolactam	0.080	0.076		-5.0	
4-Chloro-3-methylphenol	0.291	0.267		-8.2	20.0
2-Methylnaphthalene	0.620	0.579		-6.6	
Hexachlorocyclopentadiene	0.387	0.335	0.050	-13.4	
2,4,6-Trichlorophenol	0.387	0.374		-3.4	20.0
2-Fluorobiphenyl	1.490	1.337		-10.3	
2,4,5-Trichlorophenol	0.408	0.388		-4.9	
1,1-Biphenyl	1.552	1.449		-6.6	
2-Chloronaphthalene	1.146	1.076		-6.1	
2-Nitroaniline	0.331	0.320		-3.3	
Dimethylphthalate	1.320	1.228		-7.0	
Acenaphthylene	1.936	1.816		-6.2	
2,6-Dinitrotoluene	0.285	0.273		-4.2	
3-Nitroaniline	0.311	0.300		-3.5	
Acenaphthene	1.182	1.097		-7.2	20.0
2,4-Dinitrophenol	0.147	0.132	0.050	-10.2	
4-Nitrophenol	0.230	0.203	0.050	-11.7	

Form VII SV-1

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SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q2198 SAS No.: Q2198 SDG No.: Q2198

Instrument ID: BNA_F Calibration Date/Time: 06/05/2025 09:37

Lab File ID: BF142625.D Init. Calib. Date(s): 05/20/2025 05/20/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 12:10 15:31

GC Column: DB-UI ID: 0.18 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Dibenzofuran	1.701	1.577		-7.3	
2,4-Dinitrotoluene	0.372	0.363		-2.4	
Diethylphthalate	1.289	1.178		-8.6	
4-Chlorophenyl-phenylether	0.646	0.598		-7.4	
Fluorene	1.314	1.218		-7.3	
4-Nitroaniline	0.282	0.267		-5.3	
4,6-Dinitro-2-methylphenol	0.112	0.112		0.0	
n-Nitrosodiphenylamine	0.684	0.646		-5.6	20.0
2,4,6-Tribromophenol	0.222	0.204		-8.1	
4-Bromophenyl-phenylether	0.236	0.225		-4.7	
Hexachlorobenzene	0.262	0.250		-4.6	
Atrazine	0.182	0.167		-8.2	
Pentachlorophenol	0.148	0.131		-11.5	20.0
Phenanthrene	1.069	0.989		-7.5	
Anthracene	1.091	1.031		-5.5	
Carbazole	0.933	0.860		-7.8	
Di-n-butylphthalate	1.021	0.896		-12.2	
Fluoranthene	0.999	0.904		-9.5	20.0
Pyrene	1.866	1.715		-8.1	
Terphenyl-d14	1.464	1.276		-12.8	
Butylbenzylphthalate	0.516	0.506		-1.9	
3,3-Dichlorobenzidine	0.405	0.454		12.1	
Benzo(a)anthracene	1.336	1.249		-6.5	
Chrysene	1.200	1.151		-4.1	
Bis(2-ethylhexyl)phthalate	0.660	0.753		14.1	
Di-n-octyl phthalate	1.290	1.450		12.4	20.0
Benzo(b)fluoranthene	1.184	1.181		-0.3	
Benzo(k)fluoranthene	1.109	0.934		-15.8	
Benzo(a)pyrene	1.116	1.056		-5.4	20.0
Indeno(1,2,3-cd)pyrene	1.501	1.303		-13.2	
Dibenzo(a,h)anthracene	1.218	1.058		-13.1	
Benzo(g,h,i)perylene	1.218	1.053		-13.5	
1,2,4,5-Tetrachlorobenzene	0.574	0.549		-4.4	
1,4-Dioxane	0.475	0.480		1.1	20.0
2,3,4,6-Tetrachlorophenol	0.341	0.322		-5.6	

All other compounds must meet a minimum RRF of 0.010.

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SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q2198 SAS No.: Q2198 SDG No.: Q2198

Instrument ID: BNA_F Calibration Date/Time: 06/06/2025 11:36

Lab File ID: BF142640.D Init. Calib. Date(s): 05/20/2025 05/20/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 12:10 15:31

GC Column: DB-UI ID: 0.18 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.187	1.121		-5.6	
Benzaldehyde	0.859	0.766		-10.8	
Phenol-d6	1.429	1.356		-5.1	
Phenol	1.608	1.531		-4.8	20.0
bis(2-Chloroethyl)ether	1.157	1.138		-1.6	
2-Chlorophenol	1.293	1.241		-4.0	
2-Methylphenol	1.010	0.964		-4.6	
2,2-oxybis(1-Chloropropane)	1.944	1.880		-3.3	
Acetophenone	0.443	0.410		-7.4	
3+4-Methylphenols	1.293	1.177		-9.0	
n-Nitroso-di-n-propylamine	0.886	0.812	0.050	-8.4	
Nitrobenzene-d5	0.367	0.343		-6.5	
Hexachloroethane	0.507	0.489		-3.5	
Nitrobenzene	0.331	0.311		-6.0	
Isophorone	0.613	0.566		-7.7	
2-Nitrophenol	0.177	0.174		-1.7	20.0
2,4-Dimethylphenol	0.312	0.292		-6.4	
bis(2-Chloroethoxy)methane	0.383	0.361		-5.7	
2,4-Dichlorophenol	0.283	0.273		-3.5	20.0
Naphthalene	0.985	0.926		-6.0	
4-Chloroaniline	0.399	0.381		-4.5	
Hexachlorobutadiene	0.192	0.181		-5.7	20.0
Caprolactam	0.080	0.071		-11.3	
4-Chloro-3-methylphenol	0.291	0.262		-10.0	20.0
2-Methylnaphthalene	0.620	0.577		-6.9	
Hexachlorocyclopentadiene	0.387	0.355	0.050	-8.3	
2,4,6-Trichlorophenol	0.387	0.375		-3.1	20.0
2-Fluorobiphenyl	1.490	1.353		-9.2	
2,4,5-Trichlorophenol	0.408	0.381		-6.6	
1,1-Biphenyl	1.552	1.469		-5.3	
2-Chloronaphthalene	1.146	1.112		-3.0	
2-Nitroaniline	0.331	0.307		-7.3	
Dimethylphthalate	1.320	1.176		-10.9	
Acenaphthylene	1.936	1.812		-6.4	
2,6-Dinitrotoluene	0.285	0.258		-9.5	
3-Nitroaniline	0.311	0.273		-12.2	
Acenaphthene	1.182	1.087		-8.0	20.0
2,4-Dinitrophenol	0.147	0.127	0.050	-13.6	
4-Nitrophenol	0.230	0.182	0.050	-20.9	

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SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q2198 SAS No.: Q2198 SDG No.: Q2198

Instrument ID: BNA_F Calibration Date/Time: 06/06/2025 11:36

Lab File ID: BF142640.D Init. Calib. Date(s): 05/20/2025 05/20/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 12:10 15:31

GC Column: DB-UI ID: 0.18 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Dibenzofuran	1.701	1.563		-8.1	
2,4-Dinitrotoluene	0.372	0.330		-11.3	
Diethylphthalate	1.289	1.095		-15.1	
4-Chlorophenyl-phenylether	0.646	0.584		-9.6	
Fluorene	1.314	1.186		-9.7	
4-Nitroaniline	0.282	0.233		-17.4	
4,6-Dinitro-2-methylphenol	0.112	0.113		0.9	
n-Nitrosodiphenylamine	0.684	0.680		-0.6	20.0
2,4,6-Tribromophenol	0.222	0.192		-13.5	
4-Bromophenyl-phenylether	0.236	0.239		1.3	
Hexachlorobenzene	0.262	0.263		0.4	
Atrazine	0.182	0.168		-7.7	
Pentachlorophenol	0.148	0.135		-8.8	20.0
Phenanthrene	1.069	1.013		-5.2	
Anthracene	1.091	1.048		-3.9	
Carbazole	0.933	0.847		-9.2	
Di-n-butylphthalate	1.021	0.903		-11.6	
Fluoranthene	0.999	0.880		-11.9	20.0
Pyrene	1.866	1.563		-16.2	
Terphenyl-d14	1.464	1.196		-18.3	
Butylbenzylphthalate	0.516	0.527		2.1	
3,3-Dichlorobenzidine	0.405	0.465		14.8	
Benzo(a)anthracene	1.336	1.219		-8.8	
Chrysene	1.200	1.183		-1.4	
Bis(2-ethylhexyl)phthalate	0.660	0.831		25.9	
Di-n-octyl phthalate	1.290	1.594		23.6	20.0
Benzo(b)fluoranthene	1.184	1.106		-6.6	
Benzo(k)fluoranthene	1.109	0.999		-9.9	
Benzo(a)pyrene	1.116	1.052		-5.7	20.0
Indeno(1,2,3-cd)pyrene	1.501	1.380		-8.1	
Dibenzo(a,h)anthracene	1.218	1.119		-8.1	
Benzo(g,h,i)perylene	1.218	1.111		-8.8	
1,2,4,5-Tetrachlorobenzene	0.574	0.558		-2.8	
1,4-Dioxane	0.475	0.477		0.4	20.0
2,3,4,6-Tetrachlorophenol	0.341	0.306		-10.3	

All other compounds must meet a minimum RRF of 0.010.

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SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q2198 SAS No.: Q2198 SDG No.: Q2198

Instrument ID: BNA_F Calibration Date/Time: 06/11/2025 09:24

Lab File ID: BF142723.D Init. Calib. Date(s): 06/10/2025 06/10/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 16:54 20:19

GC Column: DB-UI ID: 0.18 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.174	1.141		-2.8	
Benzaldehyde	0.856	0.818		-4.4	
Phenol-d6	1.382	1.367		-1.1	
Phenol	1.536	1.528		-0.5	20.0
bis(2-Chloroethyl)ether	1.147	1.136		-1.0	
2-Chlorophenol	1.283	1.259		-1.9	
2-Methylphenol	0.984	0.985		0.1	
2,2-oxybis(1-Chloropropane)	1.806	1.799		-0.4	
Acetophenone	0.445	0.431		-3.1	
3+4-Methylphenols	1.240	1.242		0.2	
n-Nitroso-di-n-propylamine	0.880	0.889	0.050	1.0	
Nitrobenzene-d5	0.365	0.358		-1.9	
Hexachloroethane	0.530	0.508		-4.2	
Nitrobenzene	0.324	0.320		-1.2	
Isophorone	0.619	0.614		-0.8	
2-Nitrophenol	0.181	0.182		0.6	20.0
2,4-Dimethylphenol	0.308	0.305		-1.0	
bis(2-Chloroethoxy)methane	0.384	0.380		-1.0	
2,4-Dichlorophenol	0.284	0.284		0.0	20.0
Naphthalene	0.989	0.976		-1.3	
4-Chloroaniline	0.397	0.399		0.5	
Hexachlorobutadiene	0.200	0.197		-1.5	20.0
Caprolactam	0.077	0.080		3.9	
4-Chloro-3-methylphenol	0.296	0.295		-0.3	20.0
2-Methylnaphthalene	0.626	0.619		-1.1	
Hexachlorocyclopentadiene	0.372	0.369	0.050	-0.8	
2,4,6-Trichlorophenol	0.375	0.381		1.6	20.0
2-Fluorobiphenyl	1.505	1.452		-3.5	
2,4,5-Trichlorophenol	0.405	0.395		-2.5	
1,1-Biphenyl	1.553	1.516		-2.4	
2-Chloronaphthalene	1.144	1.134		-0.9	
2-Nitroaniline	0.325	0.326		0.3	
Dimethylphthalate	1.336	1.325		-0.8	
Acenaphthylene	1.929	1.891		-2.0	
2,6-Dinitrotoluene	0.289	0.285		-1.4	
3-Nitroaniline	0.313	0.309		-1.3	
Acenaphthene	1.196	1.172		-2.0	20.0
2,4-Dinitrophenol	0.158	0.159	0.050	0.6	
4-Nitrophenol	0.212	0.215	0.050	1.4	

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SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q2198 SAS No.: Q2198 SDG No.: Q2198

Instrument ID: BNA_F Calibration Date/Time: 06/11/2025 09:24

Lab File ID: BF142723.D Init. Calib. Date(s): 06/10/2025 06/10/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 16:54 20:19

GC Column: DB-UI ID: 0.18 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Dibenzofuran	1.703	1.673		-1.8	
2,4-Dinitrotoluene	0.382	0.392		2.6	
Diethylphthalate	1.324	1.318		-0.5	
4-Chlorophenyl-phenylether	0.657	0.651		-0.9	
Fluorene	1.345	1.301		-3.3	
4-Nitroaniline	0.280	0.290		3.6	
4,6-Dinitro-2-methylphenol	0.125	0.125		0.0	
n-Nitrosodiphenylamine	0.687	0.667		-2.9	20.0
2,4,6-Tribromophenol	0.219	0.218		-0.5	
4-Bromophenyl-phenylether	0.236	0.233		-1.3	
Hexachlorobenzene	0.262	0.255		-2.7	
Atrazine	0.183	0.192		4.9	
Pentachlorophenol	0.137	0.138		0.7	20.0
Phenanthrene	1.071	1.043		-2.6	
Anthracene	1.108	1.070		-3.4	
Carbazole	0.928	0.921		-0.8	
Di-n-butylphthalate	1.036	1.101		6.3	
Fluoranthene	1.019	1.017		-0.2	20.0
Pyrene	1.859	1.904		2.4	
Terphenyl-d14	1.456	1.502		3.2	
Butylbenzylphthalate	0.550	0.589		7.1	
3,3-Dichlorobenzidine	0.427	0.407		-4.7	
Benzo(a)anthracene	1.325	1.330		0.4	
Chrysene	1.224	1.168		-4.6	
Bis(2-ethylhexyl)phthalate	0.825	0.821		-0.5	
Di-n-octyl phthalate	1.582	1.500		-5.2	20.0
Benzo(b)fluoranthene	1.178	1.192		1.2	
Benzo(k)fluoranthene	1.143	1.132		-1.0	
Benzo(a)pyrene	1.120	1.112		-0.7	20.0
Indeno(1,2,3-cd)pyrene	1.482	1.501		1.3	
Dibenzo(a,h)anthracene	1.210	1.240		2.5	
Benzo(g,h,i)perylene	1.203	1.196		-0.6	
1,2,4,5-Tetrachlorobenzene	0.579	0.567		-2.1	
1,4-Dioxane	0.465	0.450		-3.2	20.0
2,3,4,6-Tetrachlorophenol	0.340	0.335		-1.5	

All other compounds must meet a minimum RRF of 0.010.

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SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q2198 SAS No.: Q2198 SDG No.: Q2198

Instrument ID: BNA_P Calibration Date/Time: 06/11/2025 10:09

Lab File ID: BP024905.D Init. Calib. Date(s): 06/06/2025 06/06/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 10:30 15:18

GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.198	1.226		2.3	
Benzaldehyde	0.914	0.937		2.5	
Phenol-d6	1.585	1.563		-1.4	
Phenol	1.634	1.618		-1.0	20.0
bis(2-Chloroethyl)ether	1.285	1.265		-1.6	
2-Chlorophenol	1.358	1.365		0.5	
2-Methylphenol	1.141	1.112		-2.5	
2,2-oxybis(1-Chloropropane)	1.682	1.580		-6.1	
Acetophenone	0.505	0.502		-0.6	
3+4-Methylphenols	1.557	1.486		-4.6	
n-Nitroso-di-n-propylamine	1.078	1.023	0.050	-5.1	
Nitrobenzene-d5	0.412	0.408		-1.0	
Hexachloroethane	0.576	0.549		-4.7	
Nitrobenzene	0.366	0.359		-1.9	
Isophorone	0.713	0.698		-2.1	
2-Nitrophenol	0.180	0.190		5.6	20.0
2,4-Dimethylphenol	0.309	0.313		1.3	
bis(2-Chloroethoxy)methane	0.426	0.416		-2.3	
2,4-Dichlorophenol	0.296	0.307		3.7	20.0
Naphthalene	1.025	1.019		-0.6	
4-Chloroaniline	0.429	0.431		0.5	
Hexachlorobutadiene	0.201	0.207		3.0	20.0
Caprolactam	0.109	0.111		1.8	
4-Chloro-3-methylphenol	0.342	0.342		0.0	20.0
2-Methylnaphthalene	0.650	0.650		0.0	
Hexachlorocyclopentadiene	0.346	0.317	0.050	-8.4	
2,4,6-Trichlorophenol	0.381	0.394		3.4	20.0
2-Fluorobiphenyl	1.485	1.486		0.1	
2,4,5-Trichlorophenol	0.408	0.432		5.9	
1,1-Biphenyl	1.453	1.472		1.3	
2-Chloronaphthalene	1.117	1.114		-0.3	
2-Nitroaniline	0.343	0.347		1.2	
Dimethylphthalate	1.475	1.466		-0.6	
Acenaphthylene	1.863	1.851		-0.6	
2,6-Dinitrotoluene	0.318	0.317		-0.3	
3-Nitroaniline	0.330	0.352		6.7	
Acenaphthene	1.067	1.048		-1.8	20.0
2,4-Dinitrophenol	0.178	0.185	0.050	3.9	
4-Nitrophenol	0.239	0.237	0.050	-0.8	

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SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q2198 SAS No.: Q2198 SDG No.: Q2198

Instrument ID: BNA_P Calibration Date/Time: 06/11/2025 10:09

Lab File ID: BP024905.D Init. Calib. Date(s): 06/06/2025 06/06/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 10:30 15:18

GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Dibenzofuran	1.713	1.692		-1.2	
2,4-Dinitrotoluene	0.445	0.460		3.4	
Diethylphthalate	1.470	1.506		2.4	
4-Chlorophenyl-phenylether	0.677	0.684		1.0	
Fluorene	1.384	1.387		0.2	
4-Nitroaniline	0.299	0.338		13.0	
4,6-Dinitro-2-methylphenol	0.131	0.133		1.5	
n-Nitrosodiphenylamine	0.620	0.603		-2.7	20.0
2,4,6-Tribromophenol	0.277	0.297		7.2	
4-Bromophenyl-phenylether	0.226	0.229		1.3	
Hexachlorobenzene	0.274	0.274		0.0	
Atrazine	0.225	0.226		0.4	
Pentachlorophenol	0.142	0.157		10.6	20.0
Phenanthrene	1.105	1.060		-4.1	
Anthracene	1.119	1.107		-1.1	
Carbazole	1.038	1.030		-0.8	
Di-n-butylphthalate	1.285	1.322		2.9	
Fluoranthene	1.281	1.260		-1.6	20.0
Pyrene	1.249	1.242		-0.6	
Terphenyl-d14	1.116	1.127		1.0	
Butylbenzylphthalate	0.572	0.609		6.5	
3,3-Dichlorobenzidine	0.508	0.535		5.3	
Benzo(a)anthracene	1.279	1.276		-0.2	
Chrysene	1.212	1.188		-2.0	
Bis(2-ethylhexyl)phthalate	0.820	0.891		8.7	
Di-n-octyl phthalate	1.445	1.536		6.3	20.0
Benzo(b)fluoranthene	1.145	1.113		-2.8	
Benzo(k)fluoranthene	1.165	1.124		-3.5	
Benzo(a)pyrene	1.118	1.098		-1.8	20.0
Indeno(1,2,3-cd)pyrene	1.459	1.454		-0.3	
Dibenzo(a,h)anthracene	1.188	1.198		0.8	
Benzo(g,h,i)perylene	1.179	1.152		-2.3	
1,2,4,5-Tetrachlorobenzene	0.568	0.573		0.9	
1,4-Dioxane	0.527	0.507		-3.8	20.0
2,3,4,6-Tetrachlorophenol	0.365	0.375		2.7	

All other compounds must meet a minimum RRF of 0.010.

SAMPLE RAW DATA

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF060625\
Data File : BF142651.D
Acq On : 06 Jun 2025 17:31
Operator : RC/JU
Sample : Q2198-01
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-202-SB02

Quant Time: Jun 06 22:55:55 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 20 16:26:47 2025
Response via : Initial Calibration

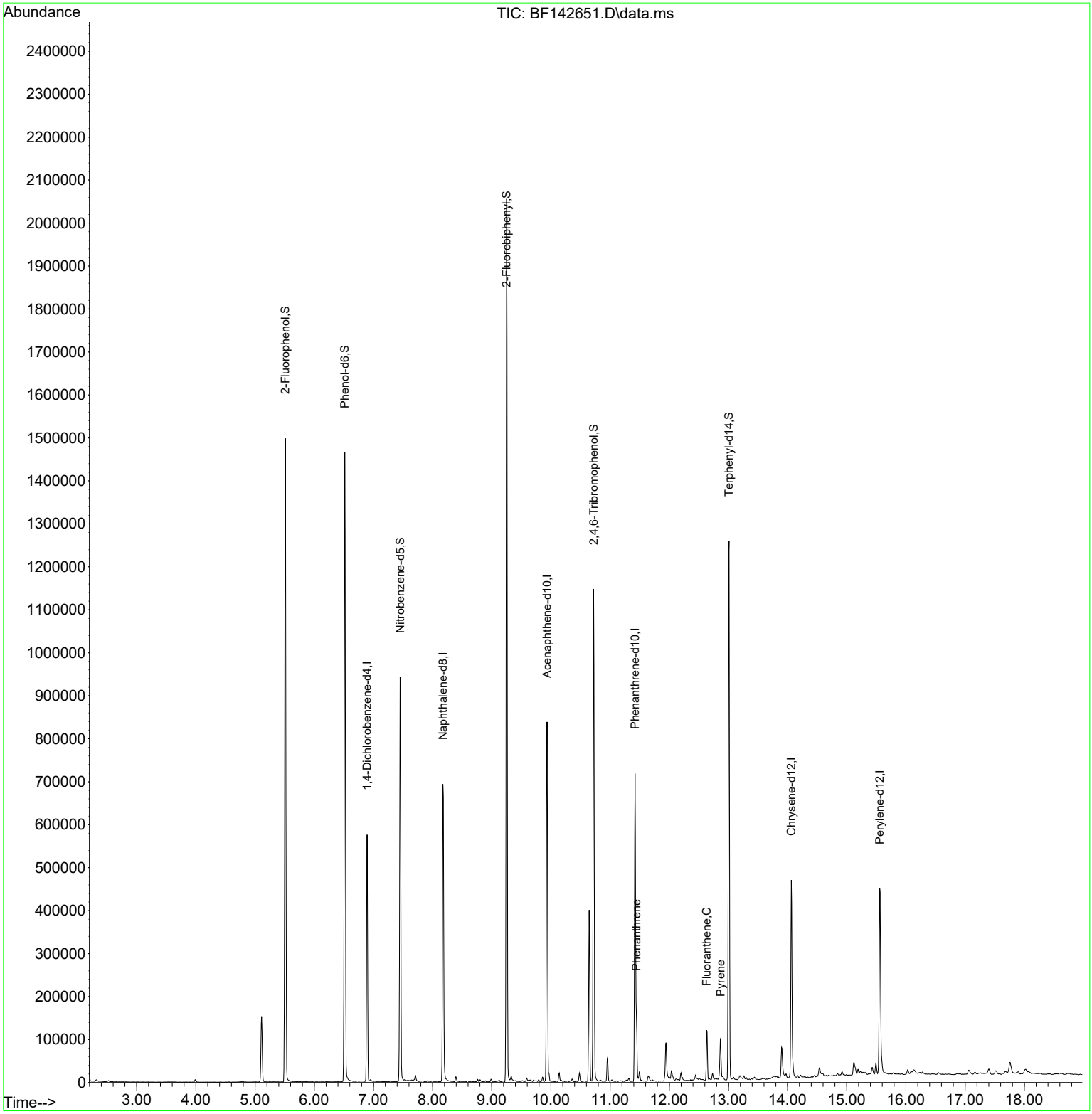
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.893	152	123234	20.000	ng	-0.01
21) Naphthalene-d8	8.175	136	476509	20.000	ng	-0.01
39) Acenaphthene-d10	9.934	164	248989	20.000	ng	-0.01
64) Phenanthrene-d10	11.422	188	371551	20.000	ng	-0.01
76) Chrysene-d12	14.063	240	222853	20.000	ng	-0.01
86) Perylene-d12	15.557	264	271822	20.000	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.510	112	578127	79.037	ng	0.00
7) Phenol-d6	6.516	99	708871	80.507	ng	-0.02
23) Nitrobenzene-d5	7.451	82	421343	48.216	ng	-0.02
42) 2,4,6-Tribromophenol	10.722	330	200544	72.570	ng	-0.02
45) 2-Fluorobiphenyl	9.251	172	918643	49.508	ng	-0.02
79) Terphenyl-d14	13.010	244	635932	38.996	ng	0.00
Target Compounds						Qvalue
71) Phenanthrene	11.445	178	73270	3.690	ng	99
75) Fluoranthene	12.633	202	72115	3.887	ng	98
78) Pyrene	12.869	202	57879	2.784	ng	99

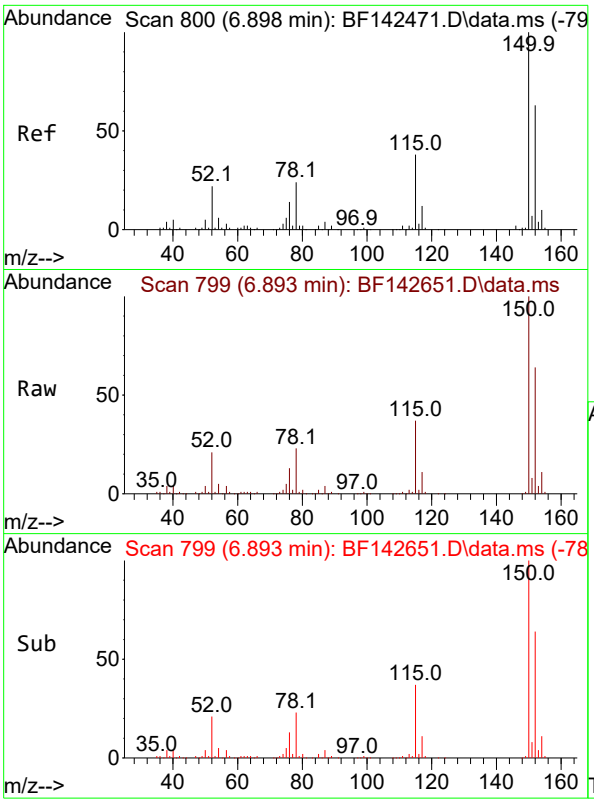
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF060625\
Data File : BF142651.D
Acq On : 06 Jun 2025 17:31
Operator : RC/JU
Sample : Q2198-01
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-202-SB02

Quant Time: Jun 06 22:55:55 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 20 16:26:47 2025
Response via : Initial Calibration



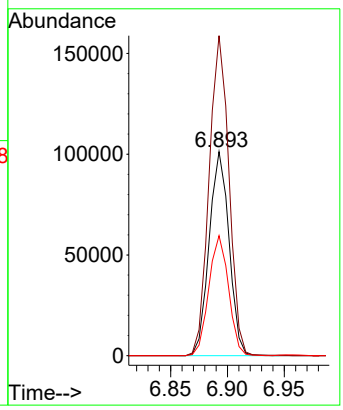


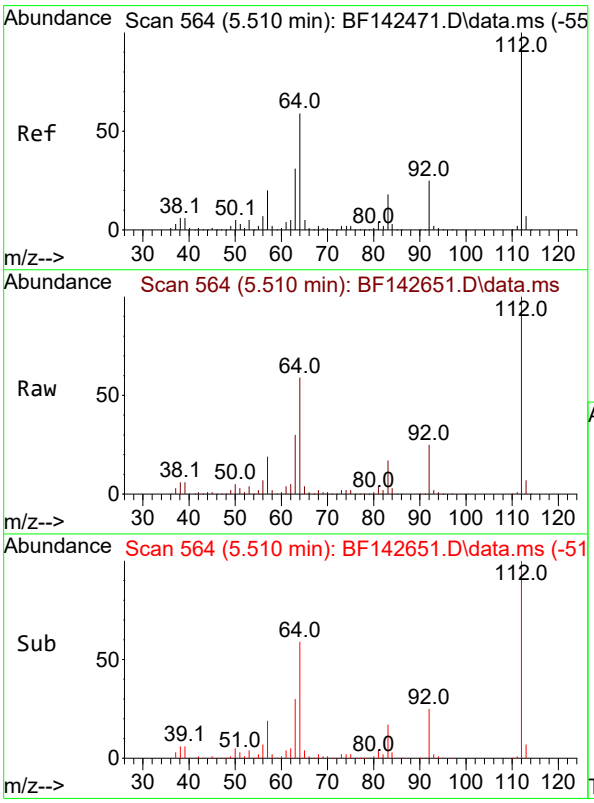
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.893 min Scan# 7
Delta R.T. -0.011 min
Lab File: BF142651.D
Acq: 06 Jun 2025 17:31

Instrument :
BNA_F
ClientSampleId :
B-202-SB02

Tgt Ion:152 Resp: 123234

Ion	Ratio	Lower	Upper
152	100		
150	156.9	128.2	192.4
115	58.8	48.3	72.5

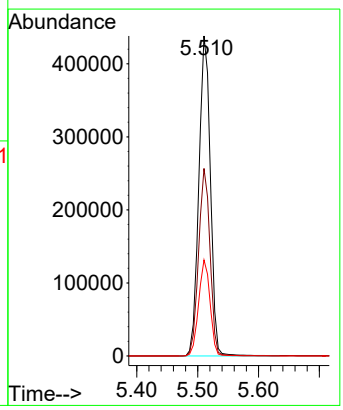


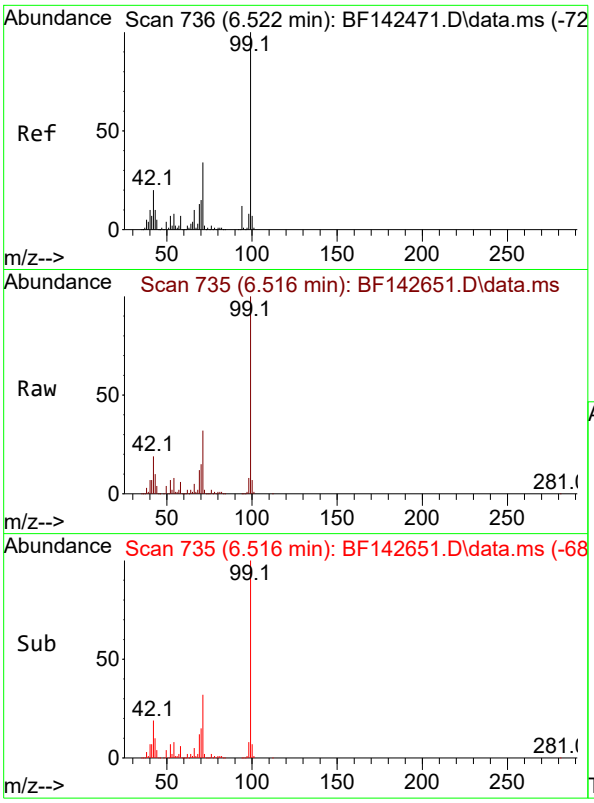


#5
2-Fluorophenol
Concen: 79.037 ng
RT: 5.510 min Scan# 564
Delta R.T. -0.006 min
Lab File: BF142651.D
Acq: 06 Jun 2025 17:31

Tgt Ion:112 Resp: 578127

Ion	Ratio	Lower	Upper
112	100		
64	58.6	47.5	71.3
63	30.0	24.9	37.3



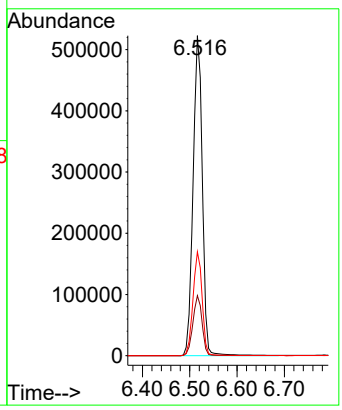


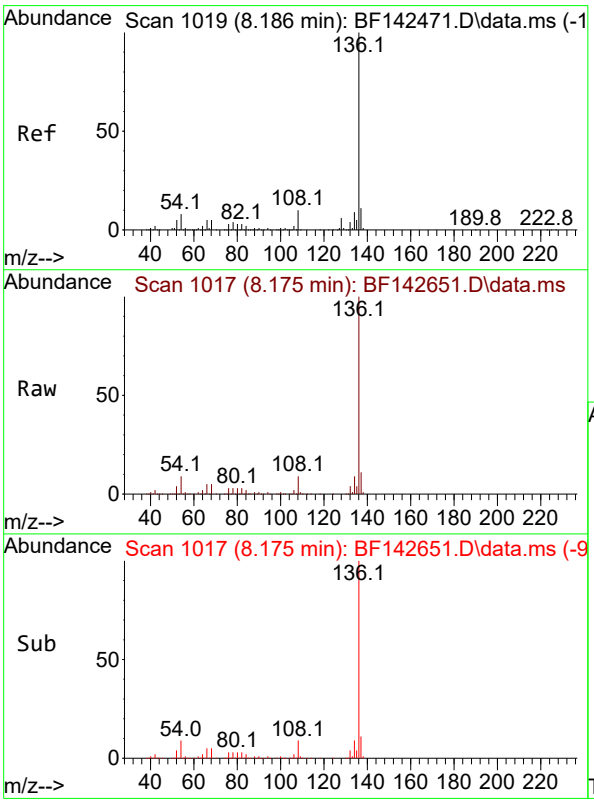
#7
Phenol-d6
Concen: 80.507 ng
RT: 6.516 min Scan# 7
Delta R.T. -0.017 min
Lab File: BF142651.D
Acq: 06 Jun 2025 17:31

Instrument :
BNA_F
ClientSampleId :
B-202-SB02

Tgt Ion: 99 Resp: 708871

Ion	Ratio	Lower	Upper
99	100		
42	18.8	16.2	24.2
71	32.5	27.3	40.9

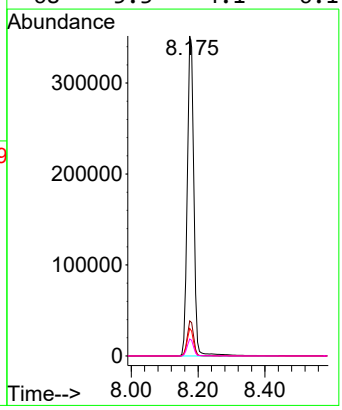


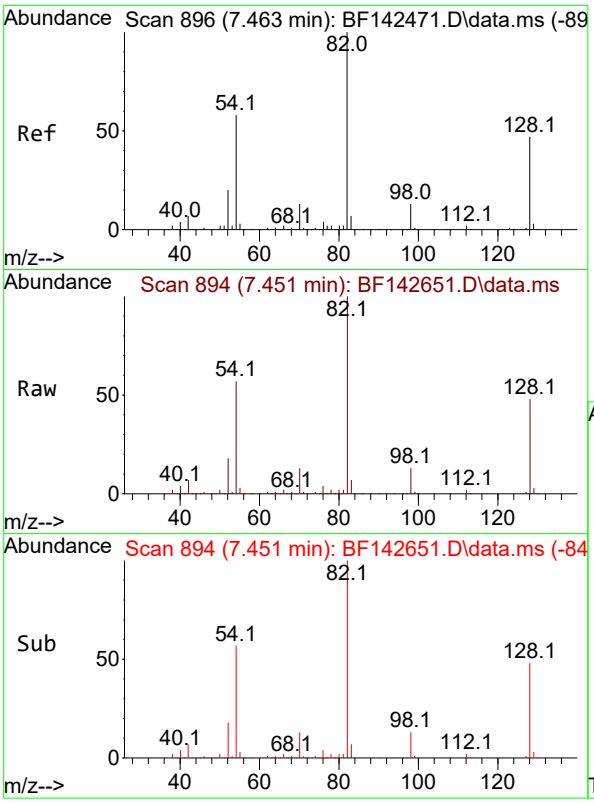


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.175 min Scan# 1017
Delta R.T. -0.012 min
Lab File: BF142651.D
Acq: 06 Jun 2025 17:31

Tgt Ion:136 Resp: 476509

Ion	Ratio	Lower	Upper
136	100		
137	10.9	8.6	13.0
54	8.6	6.6	10.0
68	5.3	4.1	6.1



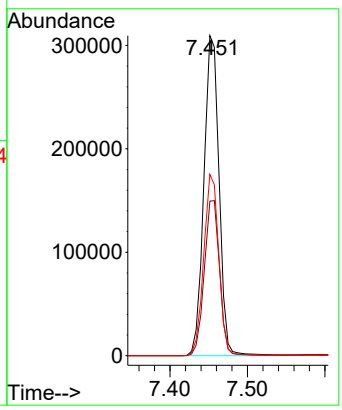


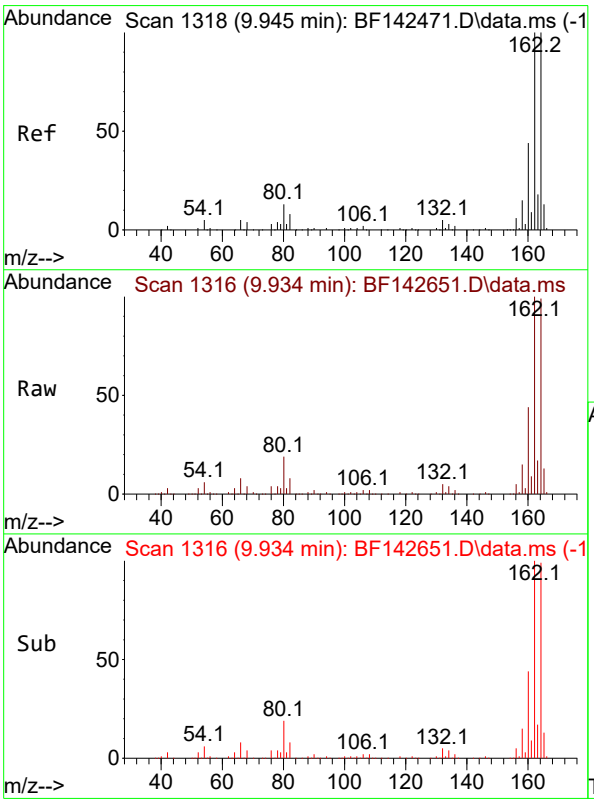
#23
Nitrobenzene-d5
Concen: 48.216 ng
RT: 7.451 min Scan# 8
Delta R.T. -0.023 min
Lab File: BF142651.D
Acq: 06 Jun 2025 17:31

Instrument :
BNA_F
ClientSampleId :
B-202-SB02

Tgt Ion: 82 Resp: 421343

Ion	Ratio	Lower	Upper
82	100		
128	48.3	37.4	56.2
54	56.6	46.6	70.0

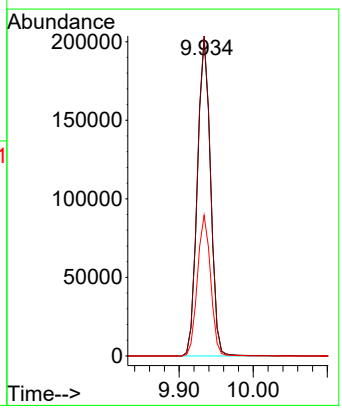


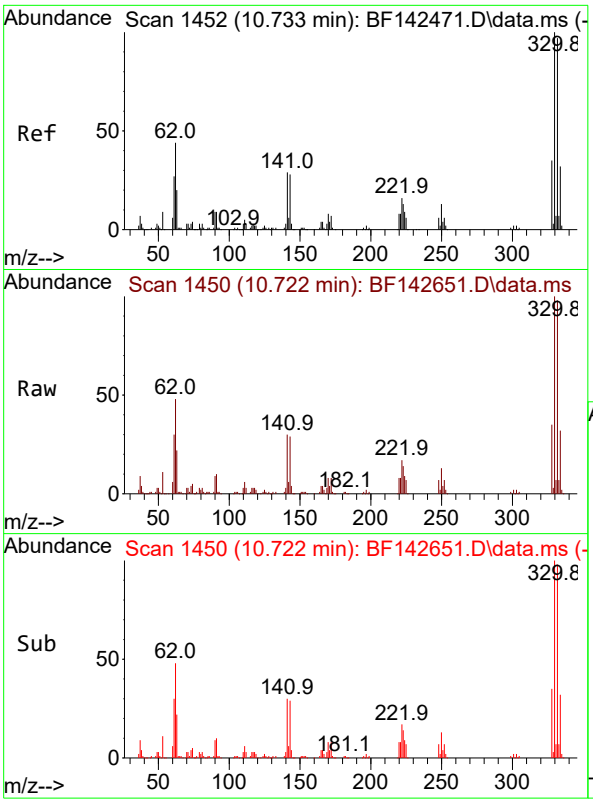


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.934 min Scan# 1316
Delta R.T. -0.012 min
Lab File: BF142651.D
Acq: 06 Jun 2025 17:31

Tgt Ion:164 Resp: 248989

Ion	Ratio	Lower	Upper
164	100		
162	100.9	80.2	120.4
160	44.3	35.6	53.4



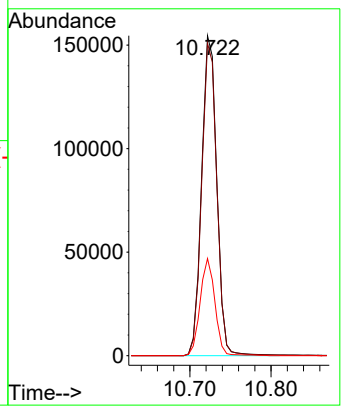


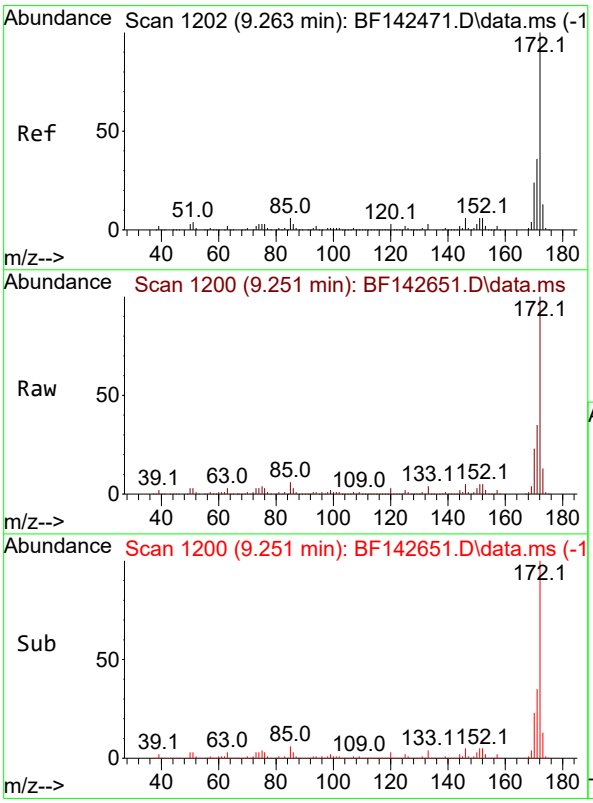
#42
2,4,6-Tribromophenol
Concen: 72.570 ng
RT: 10.722 min Scan# 14
Delta R.T. -0.017 min
Lab File: BF142651.D
Acq: 06 Jun 2025 17:31

Instrument :
BNA_F
ClientSampleId :
B-202-SB02

Tgt Ion:330 Resp: 200544

Ion	Ratio	Lower	Upper
330	100		
332	97.7	77.6	116.4
141	29.7	24.6	36.8

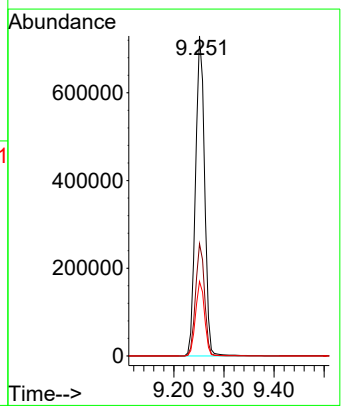


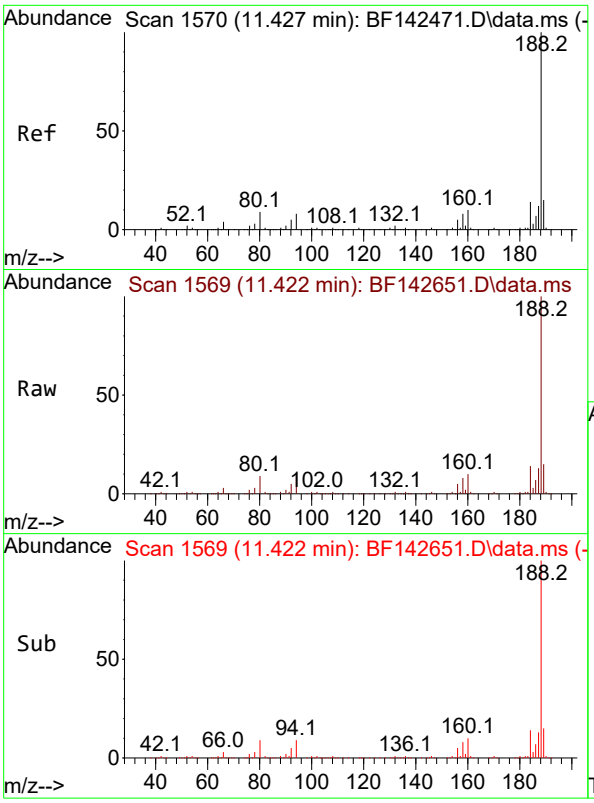


#45
2-Fluorobiphenyl
Concen: 49.508 ng
RT: 9.251 min Scan# 1200
Delta R.T. -0.017 min
Lab File: BF142651.D
Acq: 06 Jun 2025 17:31

Tgt Ion:172 Resp: 918643

Ion	Ratio	Lower	Upper
172	100		
171	35.0	28.6	42.8
170	23.2	18.9	28.3



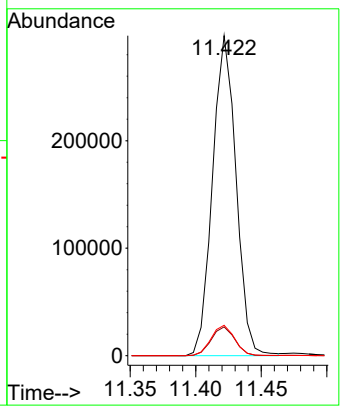


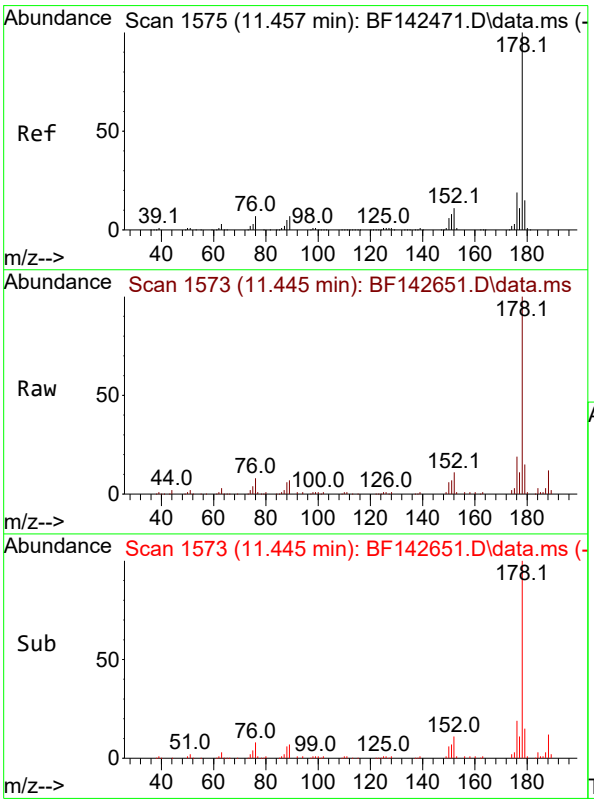
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.422 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF142651.D
Acq: 06 Jun 2025 17:31

Instrument :
BNA_F
ClientSampleId :
B-202-SB02

Tgt Ion:188 Resp: 371551

Ion	Ratio	Lower	Upper
188	100		
94	9.0	6.6	10.0
80	9.5	7.4	11.0

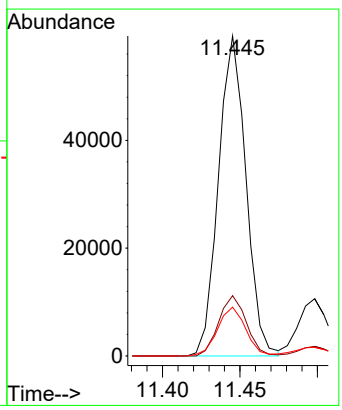


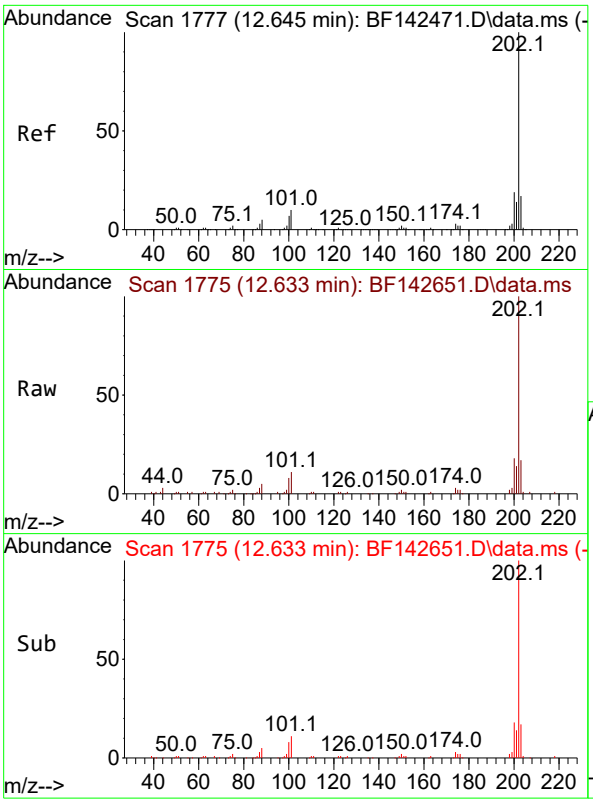


#71
Phenanthrene
Concen: 3.690 ng
RT: 11.445 min Scan# 1573
Delta R.T. -0.012 min
Lab File: BF142651.D
Acq: 06 Jun 2025 17:31

Tgt Ion:178 Resp: 73270

Ion	Ratio	Lower	Upper
178	100		
176	18.8	15.4	23.0
179	15.3	12.3	18.5



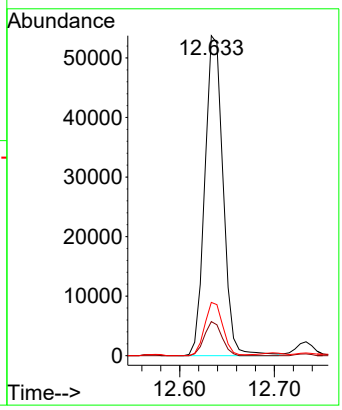


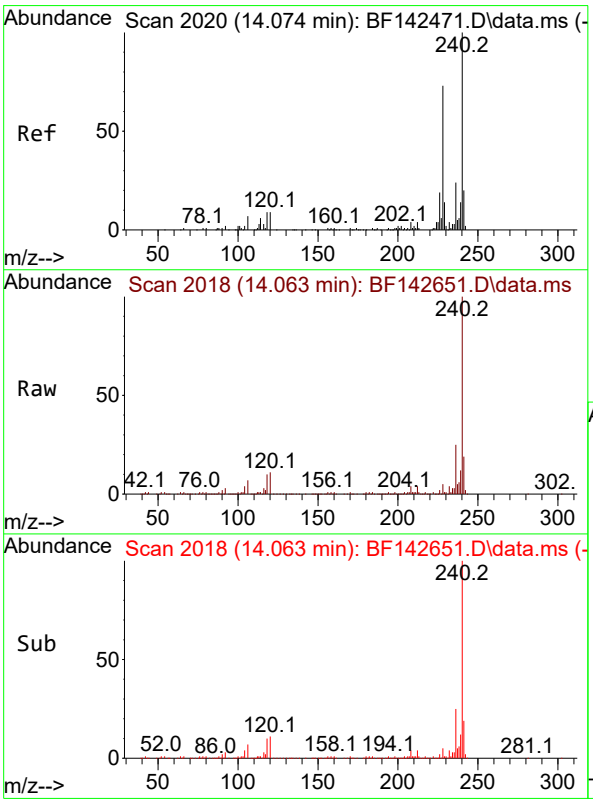
#75
Fluoranthene
Concen: 3.887 ng
RT: 12.633 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF142651.D
Acq: 06 Jun 2025 17:31

Instrument :
BNA_F
ClientSampleId :
B-202-SB02

Tgt Ion:202 Resp: 72115

Ion	Ratio	Lower	Upper
202	100		
101	10.7	0.0	29.6
203	16.7	0.0	37.2

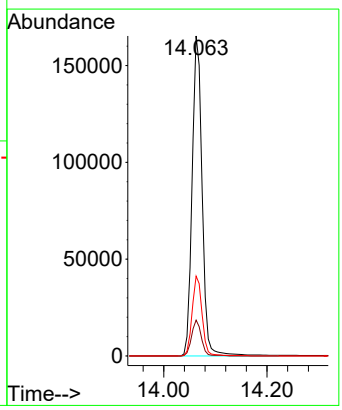


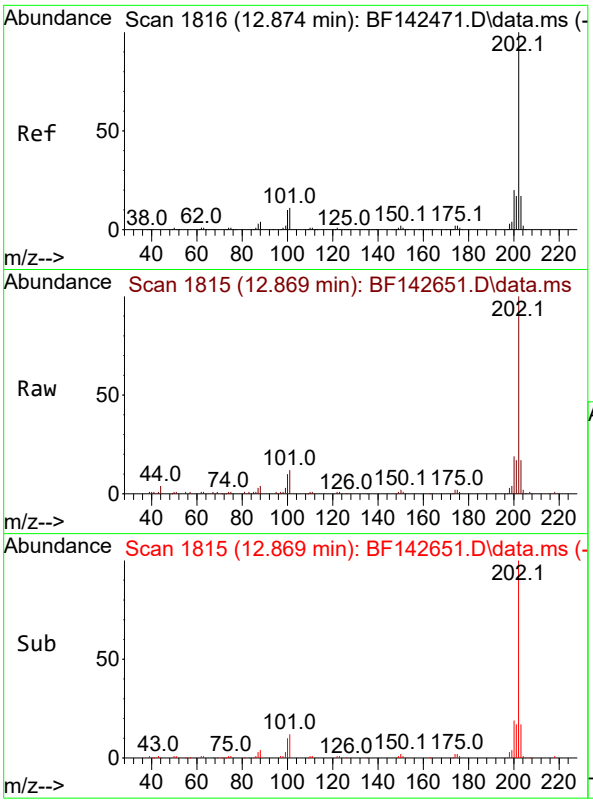


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.063 min Scan# 2018
Delta R.T. -0.012 min
Lab File: BF142651.D
Acq: 06 Jun 2025 17:31

Tgt Ion:240 Resp: 222853

Ion	Ratio	Lower	Upper
240	100		
120	11.2	7.5	11.3
236	25.0	19.6	29.4



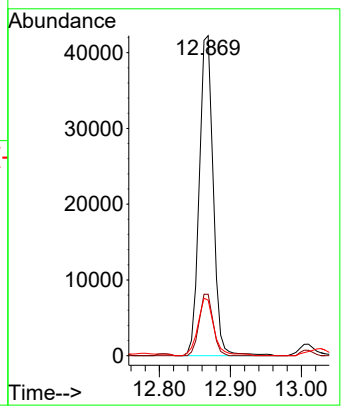


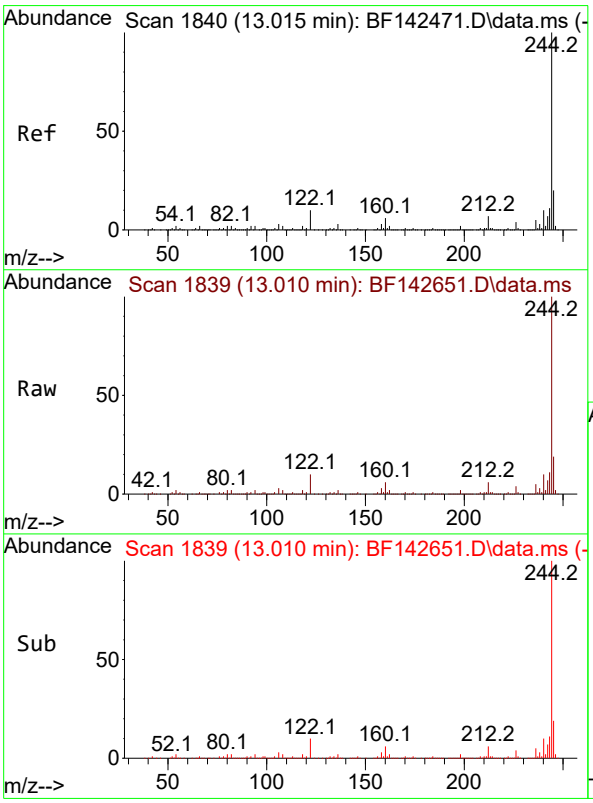
#78
Pyrene
Concen: 2.784 ng
RT: 12.869 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF142651.D
Acq: 06 Jun 2025 17:31

Instrument :
BNA_F
ClientSampleId :
B-202-SB02

Tgt Ion:202 Resp: 57879

Ion	Ratio	Lower	Upper
202	100		
200	19.2	16.1	24.1
203	17.4	13.9	20.9

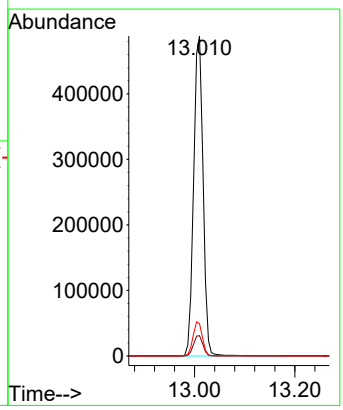


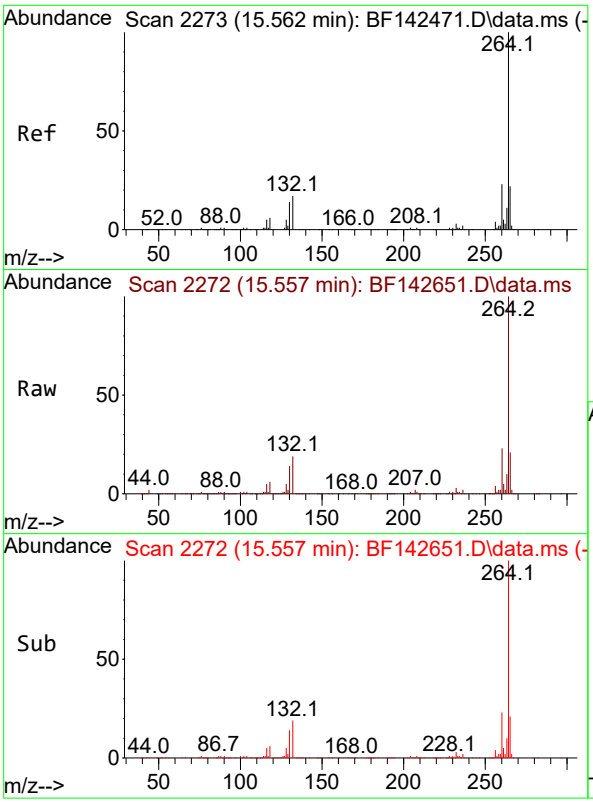


#79
Terphenyl-d14
Concen: 38.996 ng
RT: 13.010 min Scan# 1839
Delta R.T. -0.006 min
Lab File: BF142651.D
Acq: 06 Jun 2025 17:31

Tgt Ion:244 Resp: 635932

Ion	Ratio	Lower	Upper
244	100		
212	6.4	5.3	7.9
122	10.1	8.2	12.2



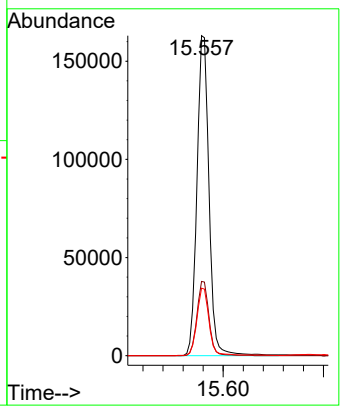


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.557 min Scan# 2
Delta R.T. -0.012 min
Lab File: BF142651.D
Acq: 06 Jun 2025 17:31

Instrument :
BNA_F
ClientSampleId :
B-202-SB02

Tgt Ion:264 Resp: 271822

Ion	Ratio	Lower	Upper
264	100		
260	23.2	18.6	28.0
265	21.1	17.7	26.5



Sample Results: **BF142651.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF060625\
Data File : BF142651.D
Acq On : 06 Jun 2025 17:31
Operator : RC/JU
Sample : Q2198-01
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-202-SB02

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF142651.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	5.110	487	496	508	rBV	152775	224761	8.82%	1.271%
2	5.510	558	564	584	rBV	1497750	1964082	77.08%	11.105%
3	6.516	729	735	750	rBV	1463678	1983504	77.84%	11.214%
4	6.893	794	799	804	rBV	573678	696432	27.33%	3.937%
5	7.451	888	894	905	rBV	941690	1284786	50.42%	7.264%
6	7.710	932	938	947	rVB2	13766	25530	1.00%	0.144%
7	8.175	1011	1017	1030	rBV	691666	938822	36.84%	5.308%
8	9.251	1194	1200	1205	rBV	2054739	2548207	100.00%	14.407%
9	9.934	1308	1316	1321	rBV	837024	1044588	40.99%	5.906%
10	10.645	1432	1437	1445	rBV	398504	488731	19.18%	2.763%
11	10.722	1445	1450	1464	rVB	1145302	1461111	57.34%	8.261%
12	10.957	1485	1490	1496	rBV	55028	69019	2.71%	0.390%
13	11.422	1564	1569	1578	rBV2	716409	1068619	41.94%	6.042%
14	11.498	1578	1582	1586	rVB	20290	27621	1.08%	0.156%
15	11.945	1650	1658	1665	rBV2	89342	157932	6.20%	0.893%
16	12.039	1670	1674	1684	rVB2	22327	42439	1.67%	0.240%
17	12.633	1770	1775	1781	rBV	116403	154694	6.07%	0.875%
18	12.863	1808	1814	1819	rBV	92250	136460	5.36%	0.772%
19	13.010	1833	1839	1847	rBV	1252855	1643794	64.51%	9.294%
20	13.898	1985	1990	2000	rBV	69793	122162	4.79%	0.691%
21	14.063	2012	2018	2032	rVB	459038	655334	25.72%	3.705%
22	14.539	2092	2099	2104	rBV4	21333	47360	1.86%	0.268%
23	15.121	2193	2198	2206	rBV	29163	66940	2.63%	0.378%
24	15.492	2257	2261	2266	rBV	24263	35803	1.41%	0.202%
25	15.557	2266	2272	2287	rBV	430481	741792	29.11%	4.194%
26	17.762	2641	2647	2655	rVB10	24095	56664	2.22%	0.320%

Sum of corrected areas: 17687187

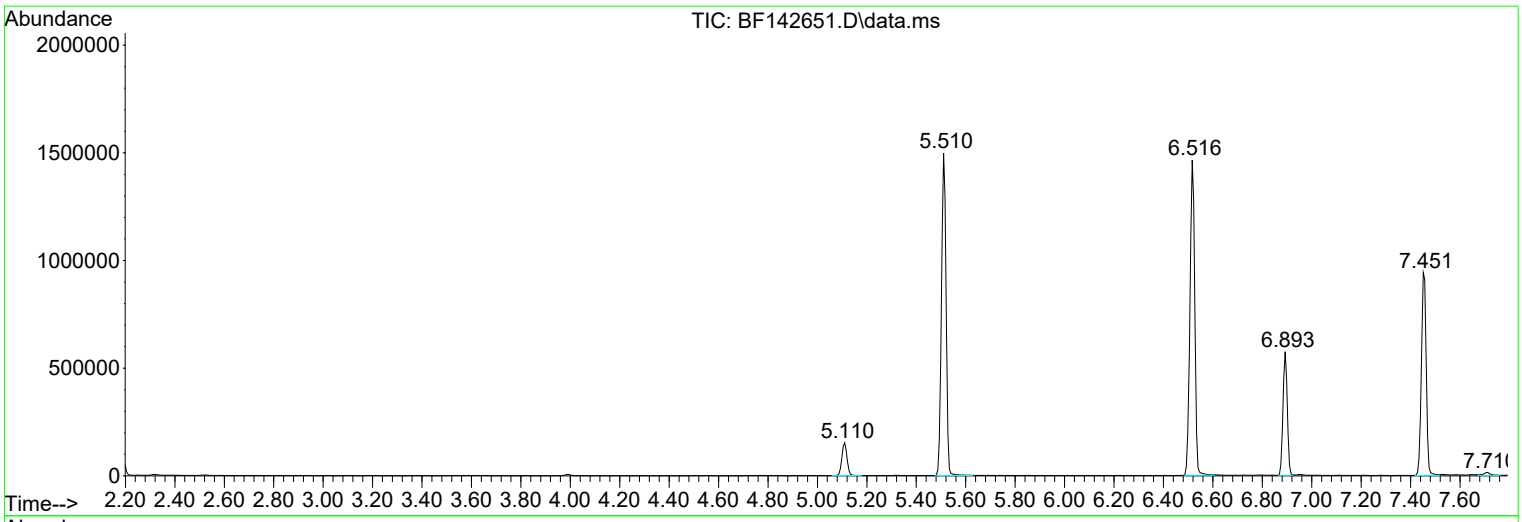
Sample Results: **BF142651.D**

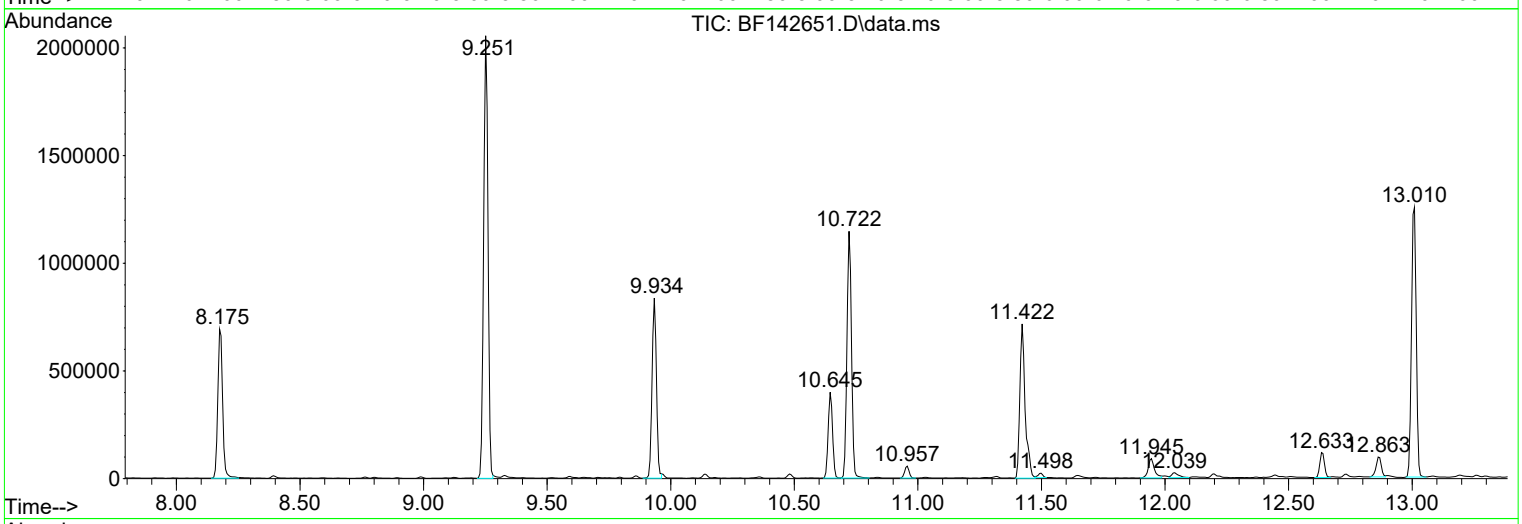
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Acq On : 06 Jun 2025 17:31
Operator : RC/JU
Sample : Q2198-01
Misc :
ALS Vial : 13 Sample Multiplier: 1

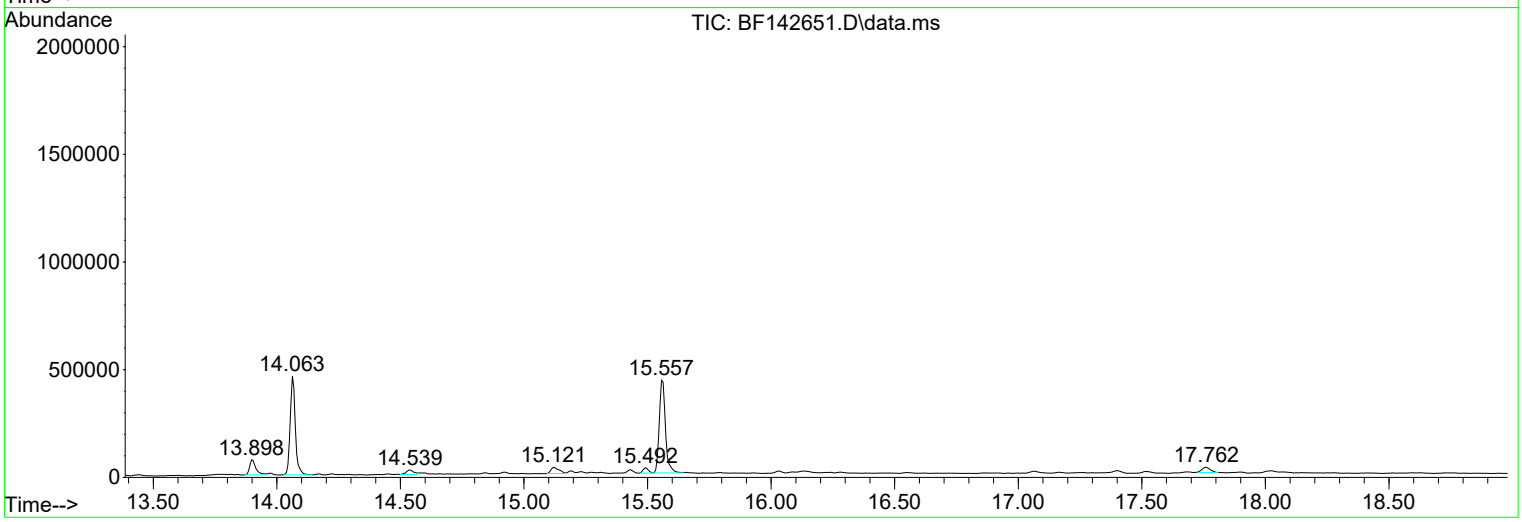
Instrument :
BNA_F
ClientSampleId :
B-202-SB02

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P







Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF060625\
Data File : BF142651.D
Acq On : 06 Jun 2025 17:31
Operator : RC/JU
Sample : Q2198-01
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-202-SB02

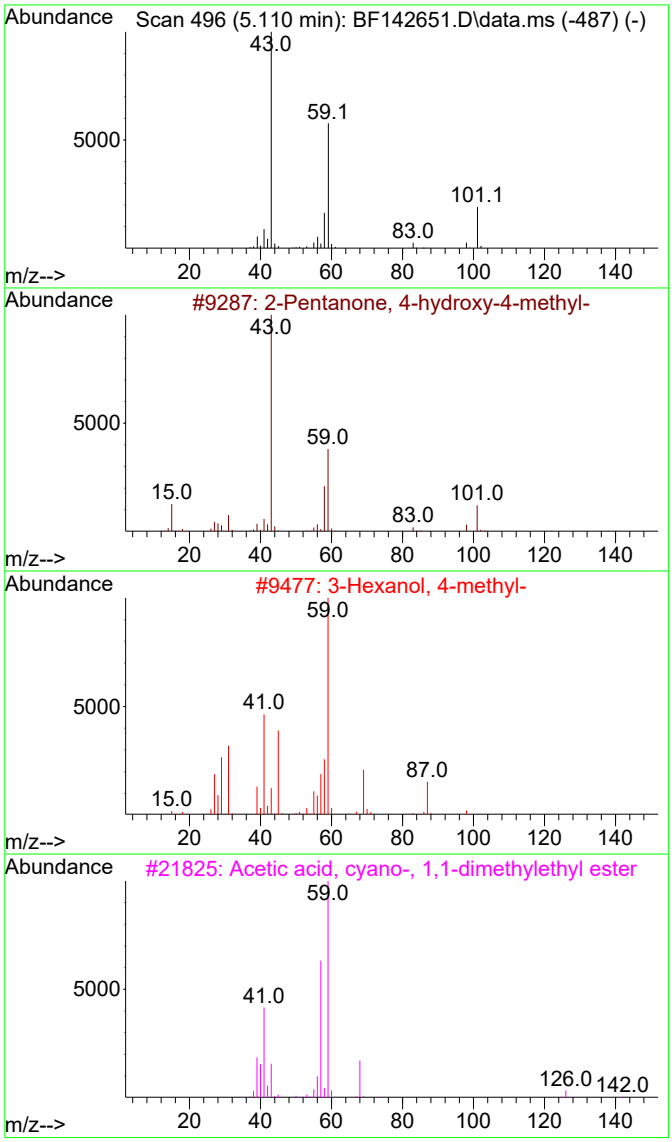
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

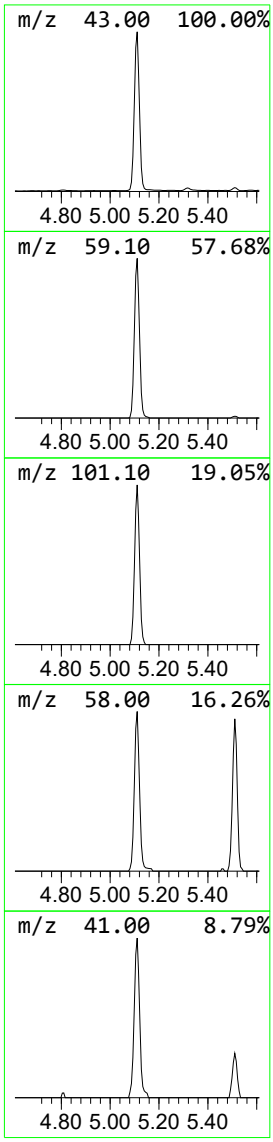
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 1 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.110	6.45 ng	224761	1,4-Dichlorobenzene-d4	6.893

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	72
2	3-Hexanol, 4-methyl-	116	C7H16O	000615-29-2	28
3	Acetic acid, cyano-, 1,1-dimethy...	141	C7H11NO2	001116-98-9	23
4	1-Propen-2-ol, acetate	100	C5H8O2	000108-22-5	10
5	Morpholine, 4-methyl-	101	C5H11NO	000109-02-4	9





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF060625\
Data File : BF142651.D
Acq On : 06 Jun 2025 17:31
Operator : RC/JU
Sample : Q2198-01
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-202-SB02

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

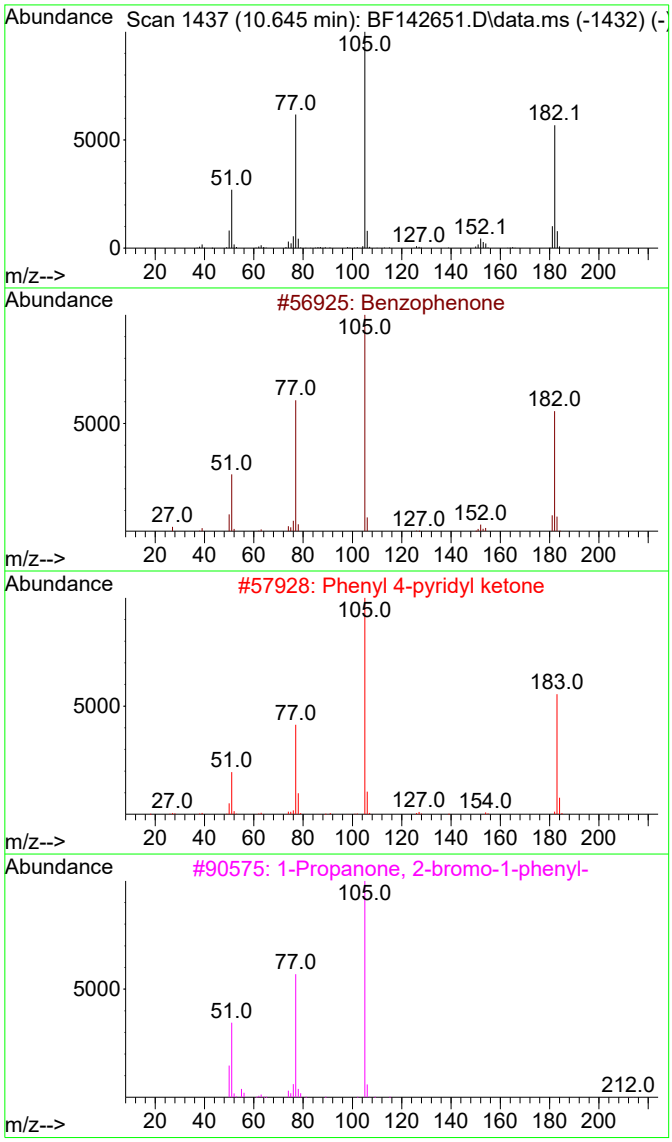
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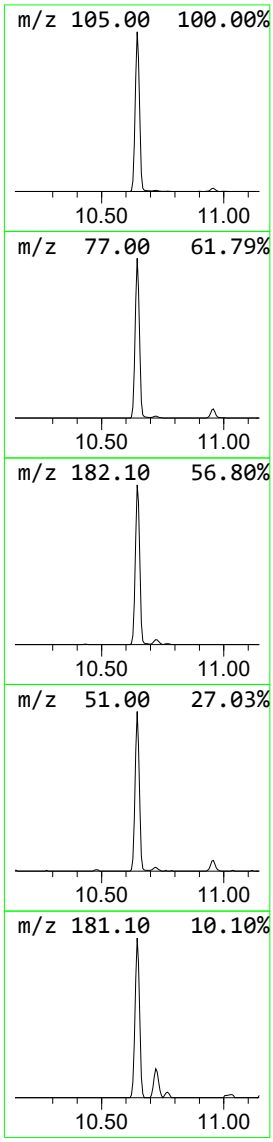
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Peak Number 2 Benzophenone Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.645	9.36 ng	488731	Acenaphthene-d10	9.934

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzophenone	182	C13H10O	000119-61-9	96
2	Phenyl 4-pyridyl ketone	183	C12H9NO	014548-46-0	47
3	1-Propanone, 2-bromo-1-phenyl-	212	C9H9BrO	002114-00-3	47
4	1-Propanone, 3-chloro-1-phenyl-	168	C9H9ClO	000936-59-4	47
5	2-(2-Oxo-2-phenyl-ethyl)-malonon...	184	C11H8N2O	1000296-76-9	47





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF060625\
Data File : BF142651.D
Acq On : 06 Jun 2025 17:31
Operator : RC/JU
Sample : Q2198-01
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-202-SB02

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

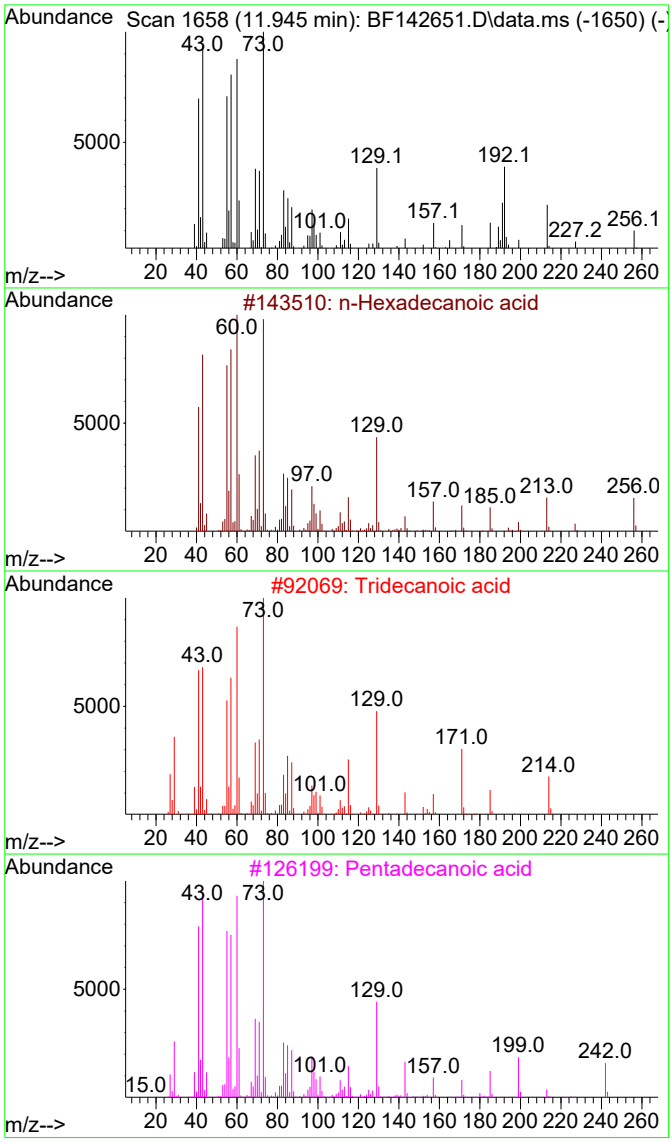
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TIC Integration Parameters: LSCINT.P

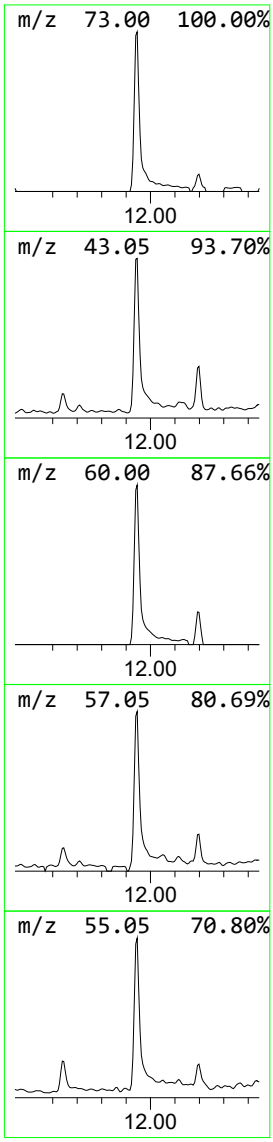
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Peak Number 3 n-Hexadecanoic acid Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.945	2.96 ng	157932	Phenanthrene-d10	11.422

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	99
2	Tridecanoic acid	214	C13H26O2	000638-53-9	96
3	Pentadecanoic acid	242	C15H30O2	001002-84-2	70
4	Tetradecanoic acid	228	C14H28O2	000544-63-8	62
5	n-Decanoic acid	172	C10H20O2	000334-48-5	60





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF060625\
Data File : BF142651.D
Acq On : 06 Jun 2025 17:31
Operator : RC/JU
Sample : Q2198-01
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-202-SB02

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

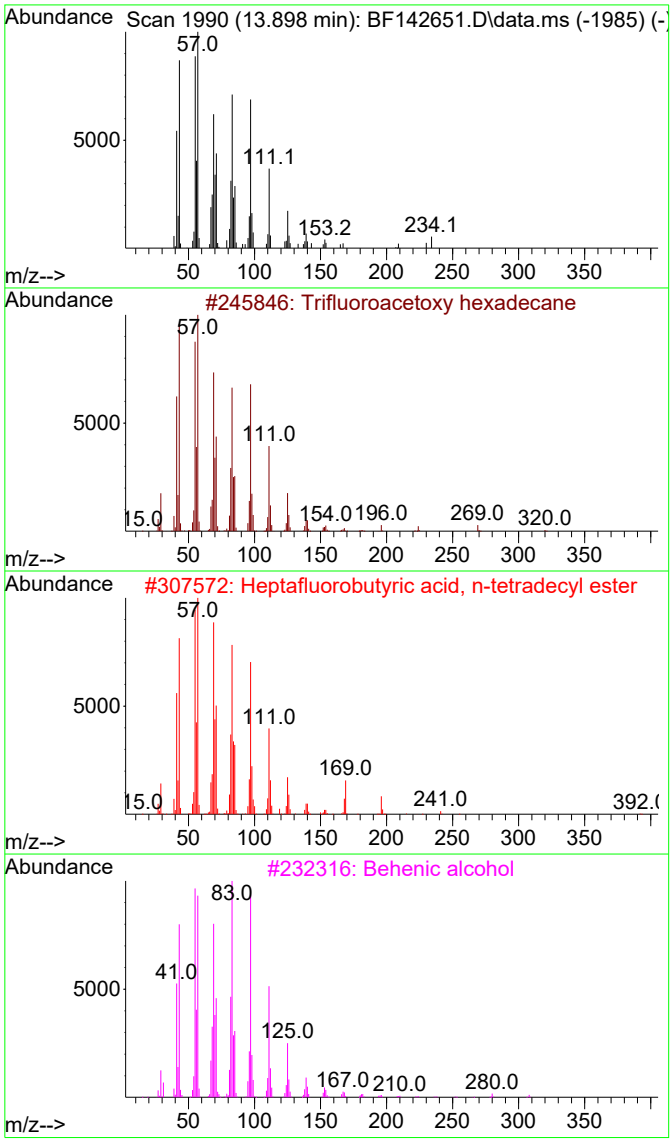
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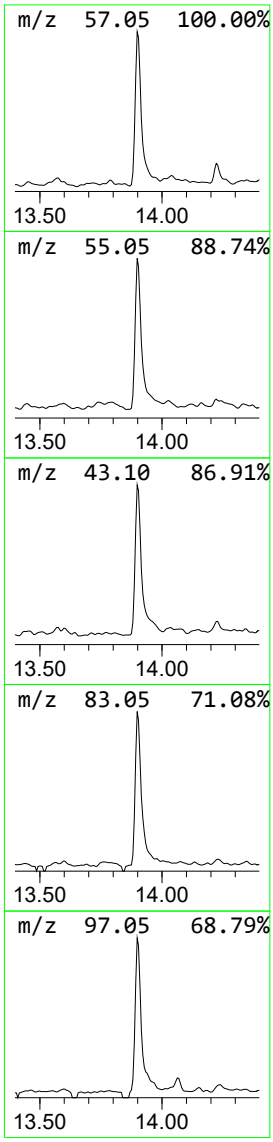
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Peak Number 4 Trifluoroacetoxy hexadecane Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.898	3.73 ng	122162	Chrysene-d12	14.063

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Trifluoroacetoxy hexadecane	338	C18H33F3O2	006222-03-3	94
2	Heptafluorobutyric acid, n-tetra...	410	C18H29F7O2	007365-36-8	94
3	Behenic alcohol	326	C22H46O	000661-19-8	94
4	1-Docosene	308	C22H44	001599-67-3	91
5	n-Tetracosanol-1	354	C24H50O	000506-51-4	91





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF060625\
Data File : BF142651.D
Acq On : 06 Jun 2025 17:31
Operator : RC/JU
Sample : Q2198-01
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-202-SB02

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
2-Pentanone, 4-...	5.110	6.5	ng	224761	1	6.893	696432	20.0
Benzophenone	10.645	9.4	ng	488731	3	9.934	1044590	20.0
n-Hexadecanoic ...	11.945	3.0	ng	157932	4	11.422	1068620	20.0
Trifluoroacetox...	13.898	3.7	ng	122162	5	14.063	655334	20.0

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP061125\
Data File : BP024919.D
Acq On : 11 Jun 2025 19:49
Operator : RC/JU
Sample : Q2198-03
Misc :
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jun 12 01:58:49 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP060625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 06 16:20:27 2025
Response via : Initial Calibration

Instrument :
BNA_P
ClientSampleId :
B-207-SB02

Manual Integrations APPROVED
Reviewed By :Anahy Claudio 06/12/2025
Supervised By :mohammad ahmed 06/13/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.608	152	281069	20.000	ng		0.00
21) Naphthalene-d8	10.384	136	1088538	20.000	ng		0.00
39) Acenaphthene-d10	14.260	164	644187	20.000	ng		0.01
64) Phenanthrene-d10	17.060	188	1235783	20.000	ng		0.00
76) Chrysene-d12	21.495	240	1500245	20.000	ng		0.01
86) Perylene-d12	24.766	264	1863840	20.000	ng		0.05
System Monitoring Compounds							
5) 2-Fluorophenol	5.237	112	1221377	72.535	ng		0.00
7) Phenol-d6	6.814	99	1591048	71.414	ng		0.00
23) Nitrobenzene-d5	8.761	82	991818	44.275	ng		0.00
42) 2,4,6-Tribromophenol	15.778	330	718770	80.704	ng		0.00
45) 2-Fluorobiphenyl	12.854	172	1910609	39.955	ng		0.00
79) Terphenyl-d14	19.789	244	2764041	33.020	ng		0.00
Target Compounds							Qvalue
71) Phenanthrene	17.101	178	365458	5.351	ng		99
75) Fluoranthene	19.189	202	501767	6.339	ng		100
78) Pyrene	19.572	202	474694	5.065	ng		99
81) Benzo(a)anthracene	21.477	228	213141	2.221	ng		97
83) Chrysene	21.542	228	193206m	2.125	ng		
88) Benzo(b)fluoranthene	23.730	252	269531	2.527	ng	#	92
90) Benzo(a)pyrene	24.601	252	215935	2.073	ng	#	91

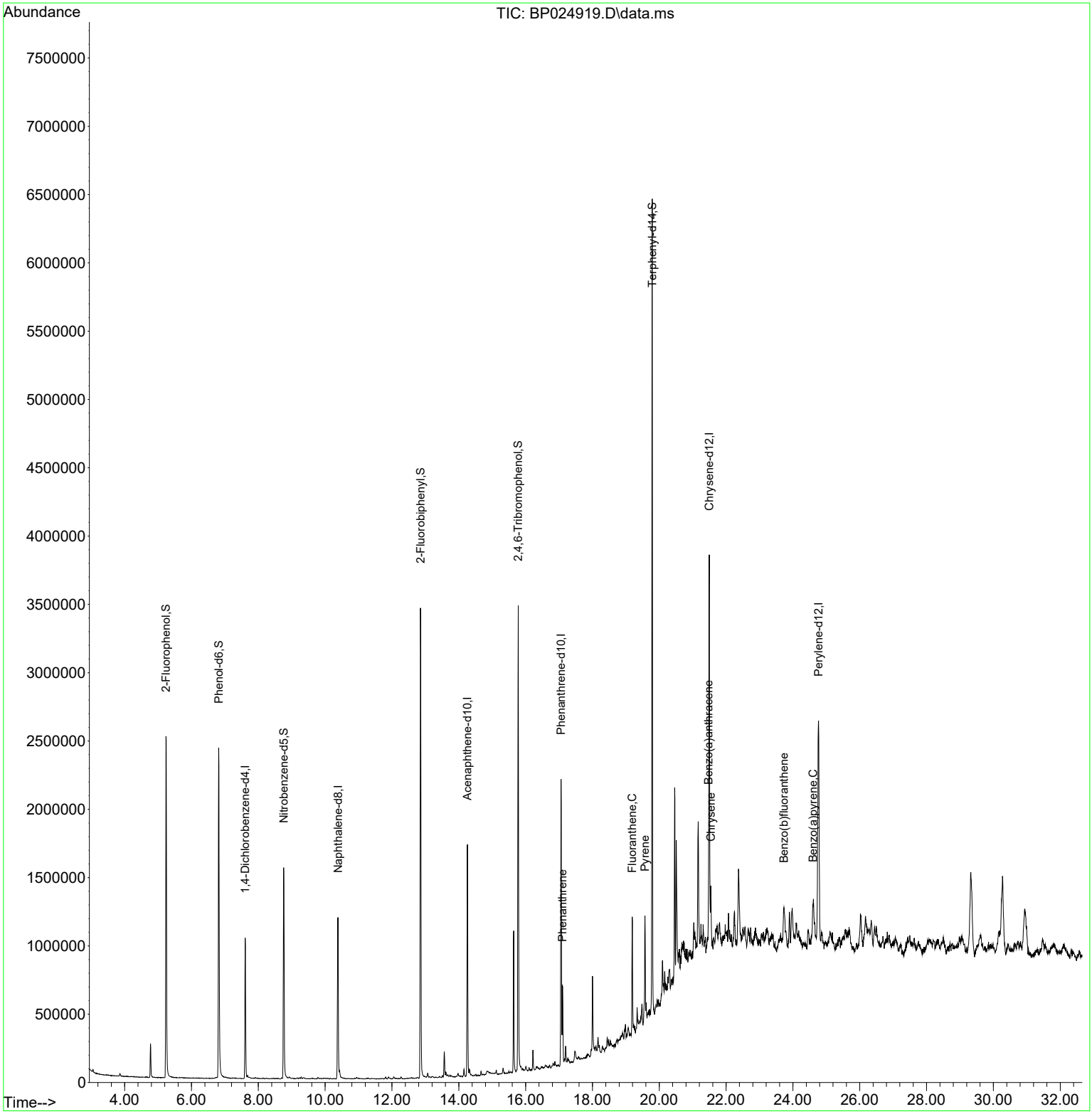
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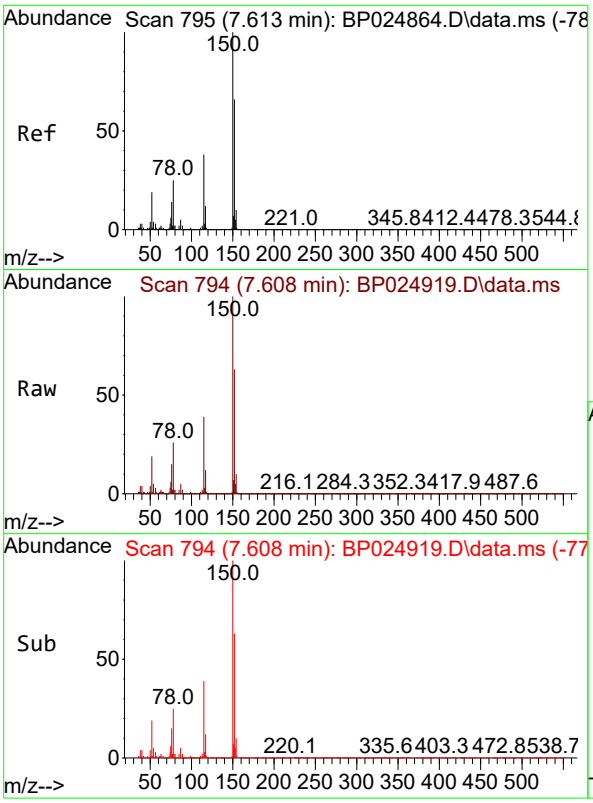
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Operator : RC/JU
Sample : Q2198-03
Misc :
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jun 12 01:58:49 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP060625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 06 16:20:27 2025
Response via : Initial Calibration

Instrument :
BNA_P
ClientSampleId :
B-207-SB02

Manual Integrations APPROVED
Reviewed By :Anahy Claudio 06/12/2025
Supervised By :mohammad ahmed 06/13/2025

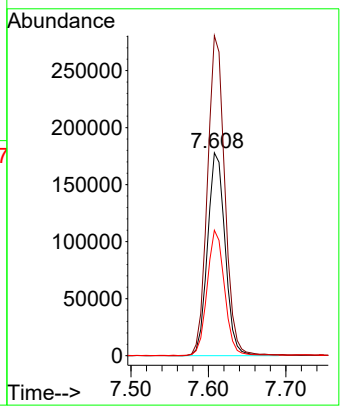




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.608 min Scan# 7
Delta R.T. -0.005 min
Lab File: BP024919.D
Acq: 11 Jun 2025 19:49

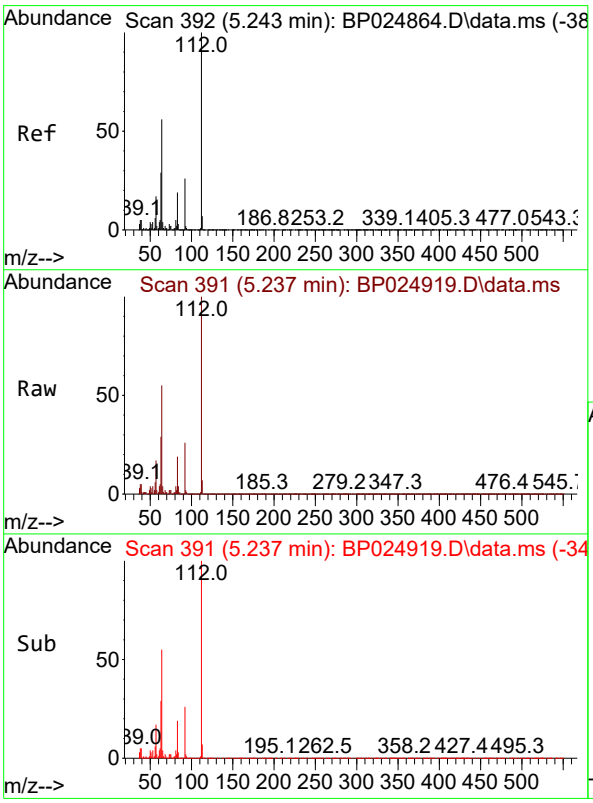
Tgt Ion:152 Resp: 28106

Ion	Ratio	Lower	Upper
152	100		
150	157.7	122.1	183.1
115	61.8	46.4	69.6



Instrument :
BNA_P
ClientSampleId :
B-207-SB02

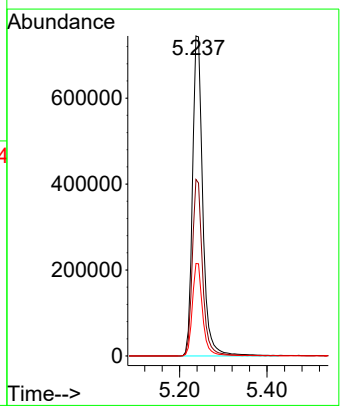
Manual Integrations APPROVED
Reviewed By :Anahy Claudio 06/12/2025
Supervised By :mohammad ahmed 06/13/2025

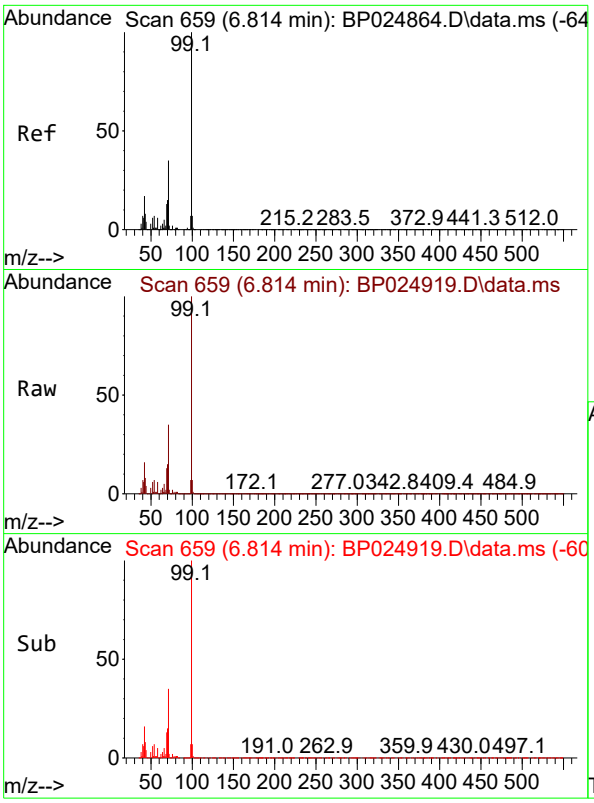


#5
2-Fluorophenol
Concen: 72.535 ng
RT: 5.237 min Scan# 391
Delta R.T. -0.006 min
Lab File: BP024919.D
Acq: 11 Jun 2025 19:49

Tgt Ion:112 Resp: 1221377

Ion	Ratio	Lower	Upper
112	100		
64	55.1	44.7	67.1
63	28.9	23.5	35.3

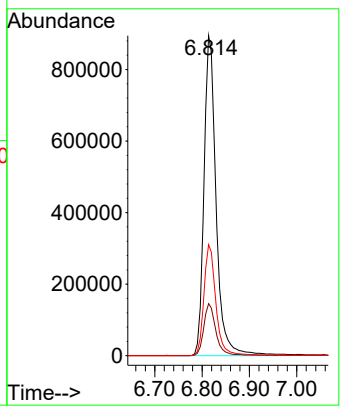




#7
Phenol-d6
Concen: 71.414 ng
RT: 6.814 min Scan# 6
Delta R.T. 0.000 min
Lab File: BP024919.D
Acq: 11 Jun 2025 19:49

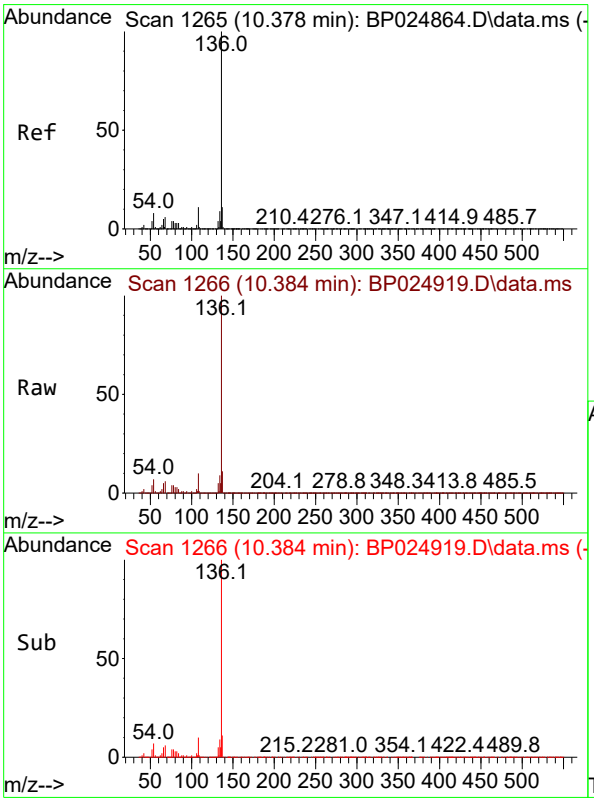
Tgt Ion: 99 Resp: 159104

Ion	Ratio	Lower	Upper
99	100		
42	16.3	13.4	20.2
71	34.7	27.6	41.4



Instrument :
BNA_P
ClientSampleId :
B-207-SB02

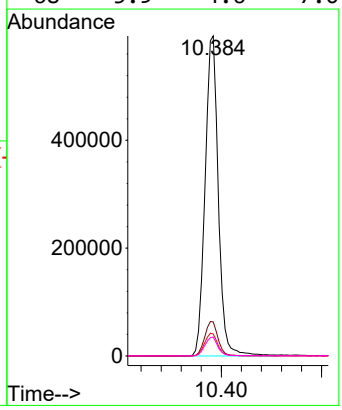
Manual Integrations APPROVED
Reviewed By :Anahy Claudio 06/12/2025
Supervised By :mohammad ahmed 06/13/2025

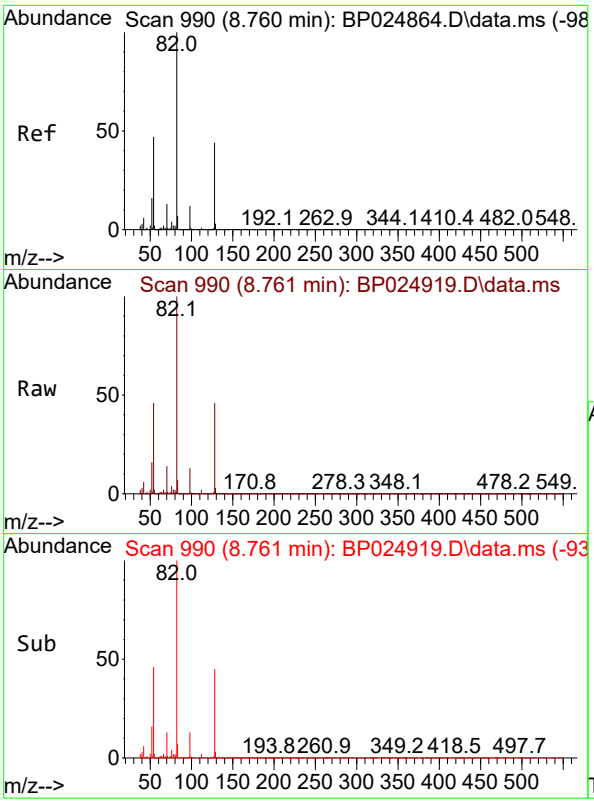


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.384 min Scan# 1266
Delta R.T. 0.006 min
Lab File: BP024919.D
Acq: 11 Jun 2025 19:49

Tgt Ion:136 Resp: 1088538

Ion	Ratio	Lower	Upper
136	100		
137	10.7	8.9	13.3
54	6.8	6.1	9.1
68	5.9	4.6	7.0





#23
Nitrobenzene-d5
Concen: 44.275 ng
RT: 8.761 min Scan# 9
Delta R.T. 0.000 min
Lab File: BP024919.D
Acq: 11 Jun 2025 19:49

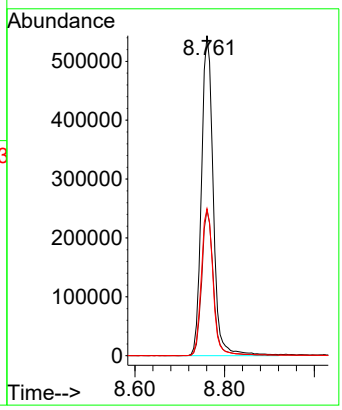
Tgt Ion: 82 Resp: 99181

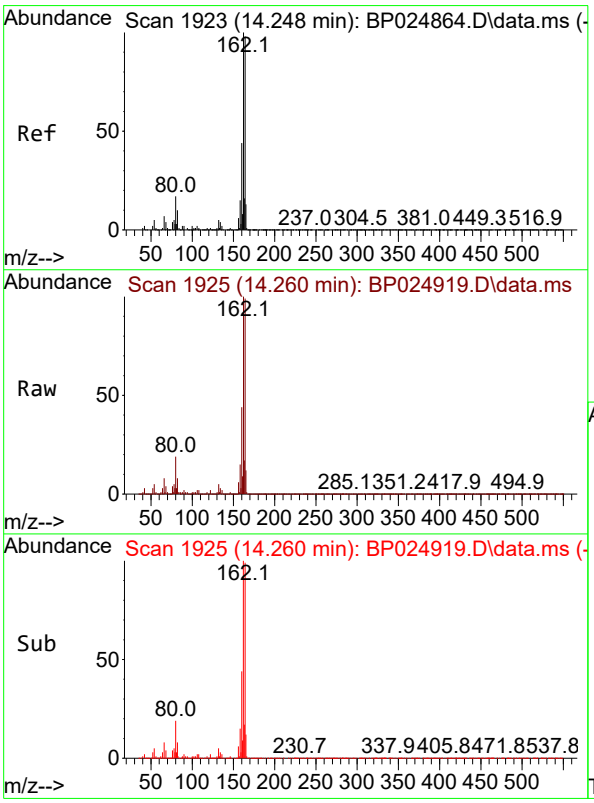
Ion	Ratio	Lower	Upper
82	100		
128	45.5	35.3	52.9
54	45.9	37.4	56.0

Instrument :
BNA_P
ClientSampleId :
B-207-SB02

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio 06/12/2025
Supervised By :mohammad ahmed 06/13/2025

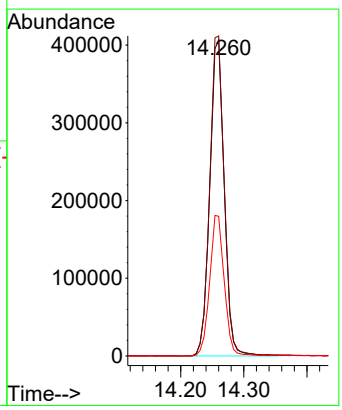


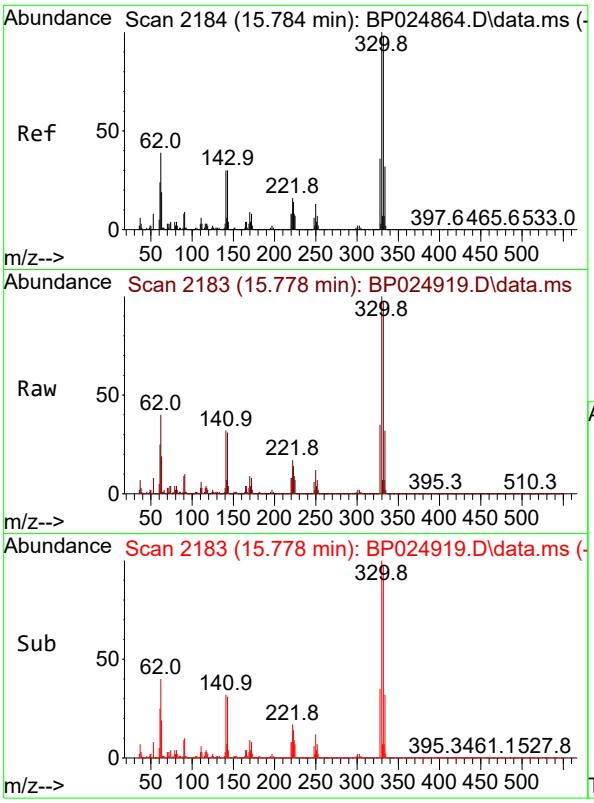


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.260 min Scan# 1925
Delta R.T. 0.012 min
Lab File: BP024919.D
Acq: 11 Jun 2025 19:49

Tgt Ion:164 Resp: 644187

Ion	Ratio	Lower	Upper
164	100		
162	101.3	81.6	122.4
160	44.2	36.2	54.2

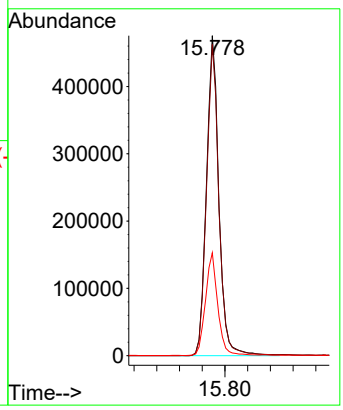




#42
2,4,6-Tribromophenol
Concen: 80.704 ng
RT: 15.778 min Scan# 2
Delta R.T. -0.006 min
Lab File: BP024919.D
Acq: 11 Jun 2025 19:49

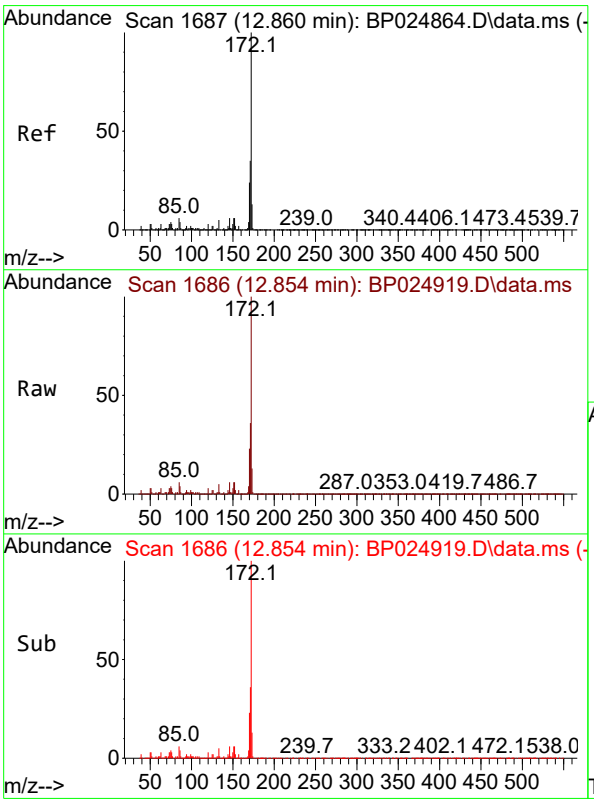
Tgt Ion:330 Resp: 71877

Ion	Ratio	Lower	Upper
330	100		
332	96.9	77.7	116.5
141	31.9	26.4	39.6



Instrument :
BNA_P
ClientSampleId :
B-207-SB02

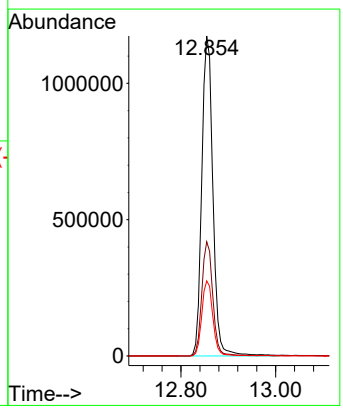
Manual Integrations
APPROVED
Reviewed By :Anahy Claudio 06/12/2025
Supervised By :mohammad ahmed 06/13/2025

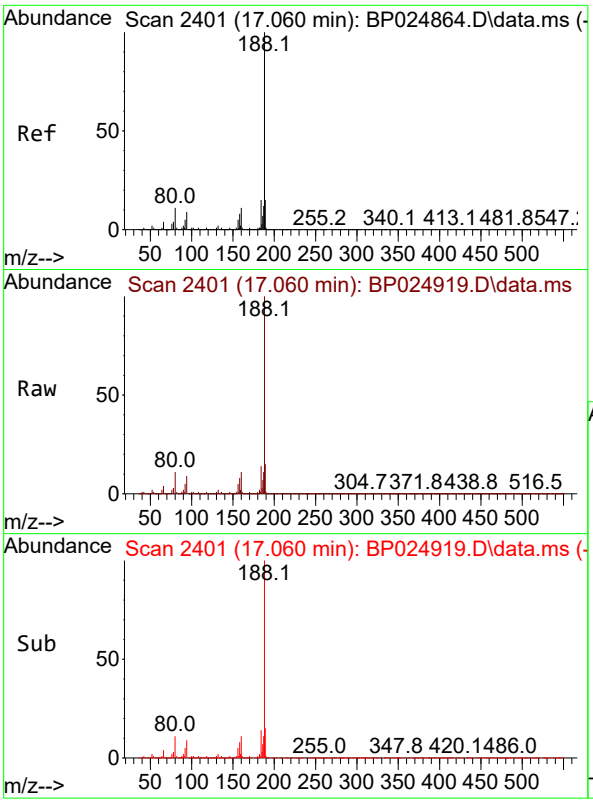


#45
2-Fluorobiphenyl
Concen: 39.955 ng
RT: 12.854 min Scan# 1686
Delta R.T. -0.006 min
Lab File: BP024919.D
Acq: 11 Jun 2025 19:49

Tgt Ion:172 Resp: 1910609

Ion	Ratio	Lower	Upper
172	100		
171	35.7	28.3	42.5
170	23.5	19.0	28.4

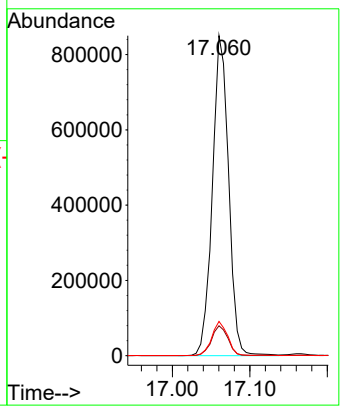




#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.060 min Scan# 24
Delta R.T. 0.000 min
Lab File: BP024919.D
Acq: 11 Jun 2025 19:49

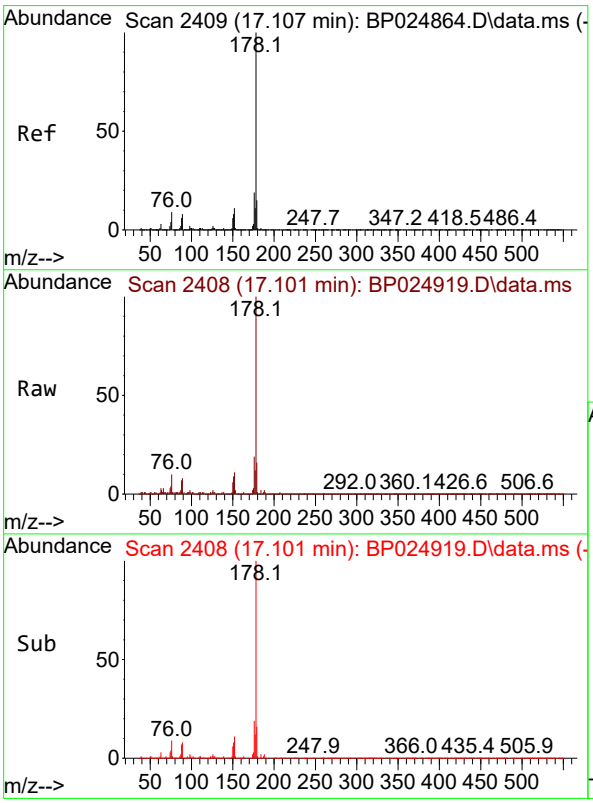
Tgt Ion:188 Resp: 123578

Ion	Ratio	Lower	Upper
188	100		
94	9.3	7.3	10.9
80	10.7	8.5	12.7



Instrument :
BNA_P
ClientSampleId :
B-207-SB02

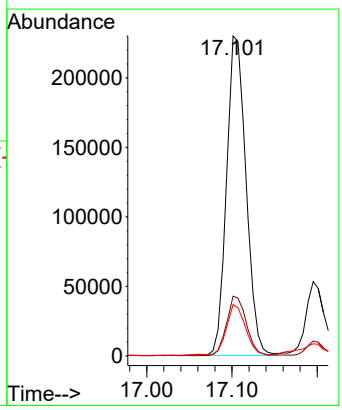
Manual Integrations APPROVED
Reviewed By :Anahy Claudio 06/12/2025
Supervised By :mohammad ahmed 06/13/2025

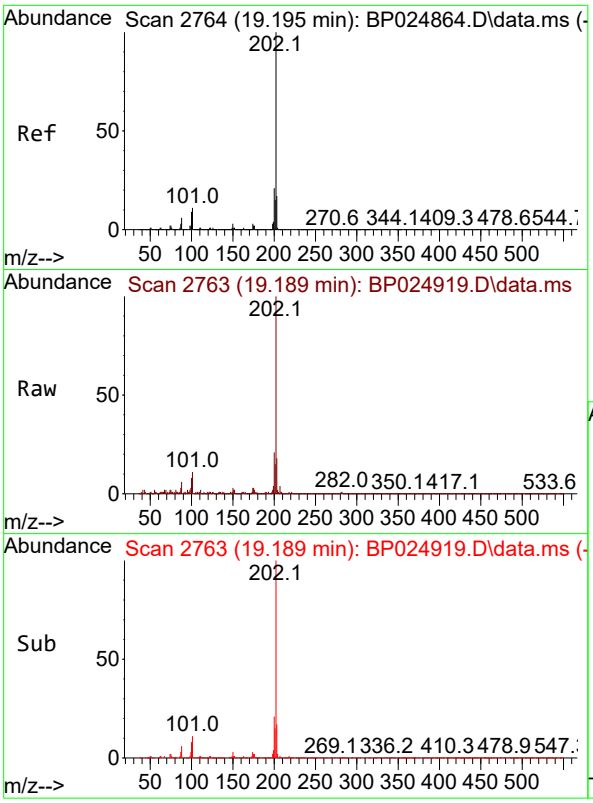


#71
Phenanthrene
Concen: 5.351 ng
RT: 17.101 min Scan# 2408
Delta R.T. -0.006 min
Lab File: BP024919.D
Acq: 11 Jun 2025 19:49

Tgt Ion:178 Resp: 365458

Ion	Ratio	Lower	Upper
178	100		
176	18.7	15.3	22.9
179	16.0	12.1	18.1





#75
Fluoranthene
Concen: 6.339 ng
RT: 19.189 min Scan# 2
Delta R.T. -0.006 min
Lab File: BP024919.D
Acq: 11 Jun 2025 19:49

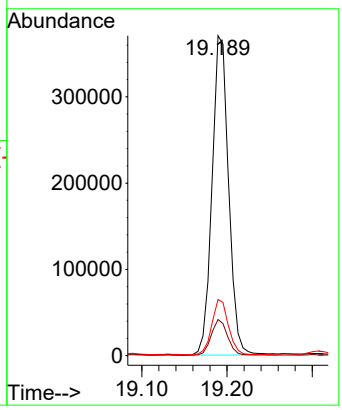
Tgt Ion:202 Resp: 50176

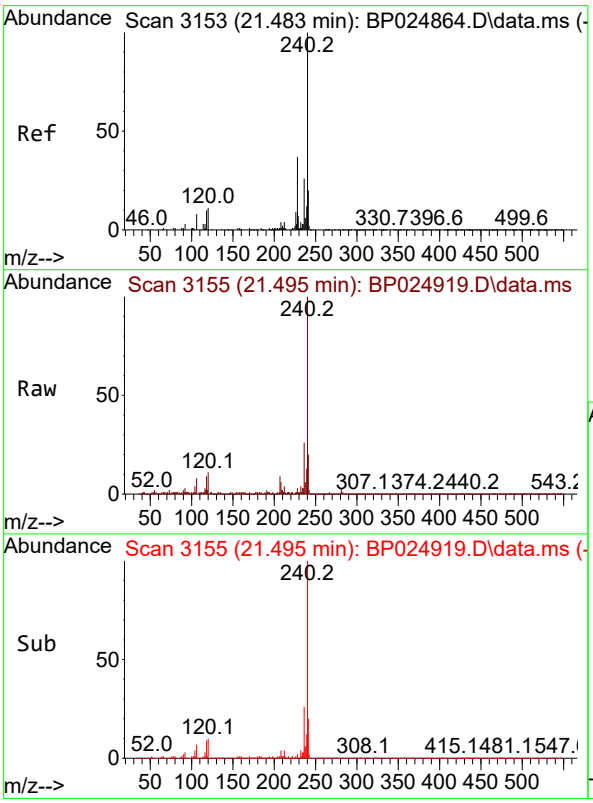
Ion	Ratio	Lower	Upper
202	100		
101	11.3	0.0	31.4
203	17.5	0.0	37.5

Instrument :
BNA_P
ClientSampleId :
B-207-SB02

Manual Integrations
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Reviewed By :Anahy Claudio 06/12/2025
Supervised By :mohammad ahmed 06/13/2025

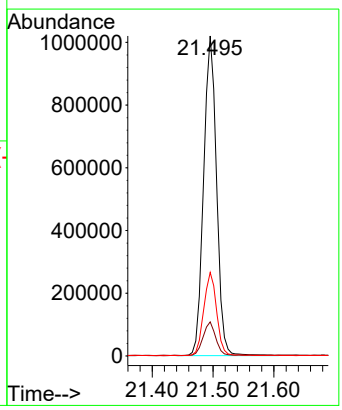


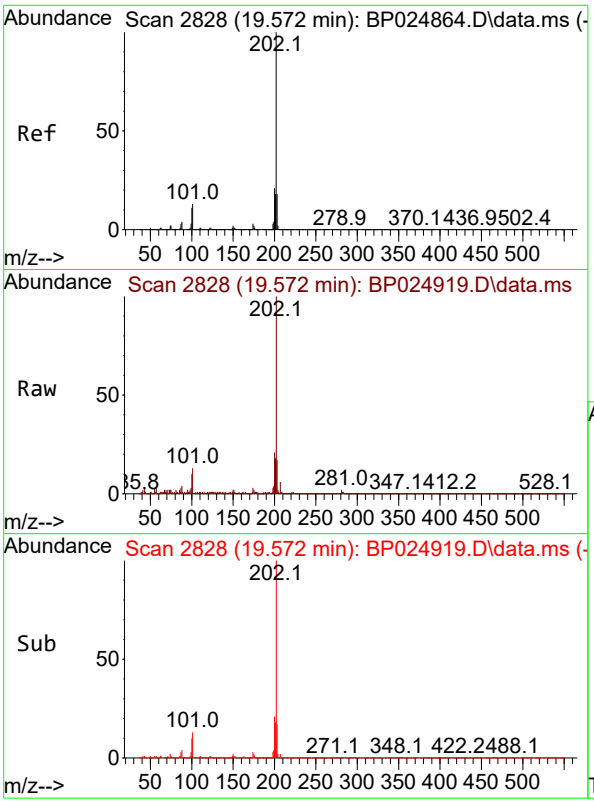


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.495 min Scan# 3155
Delta R.T. 0.012 min
Lab File: BP024919.D
Acq: 11 Jun 2025 19:49

Tgt Ion:240 Resp: 1500245

Ion	Ratio	Lower	Upper
240	100		
120	10.7	8.9	13.3
236	26.1	20.9	31.3

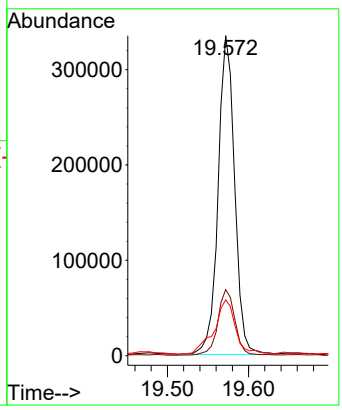




#78
Pyrene
Concen: 5.065 ng
RT: 19.572 min Scan# 2
Delta R.T. 0.000 min
Lab File: BP024919.D
Acq: 11 Jun 2025 19:49

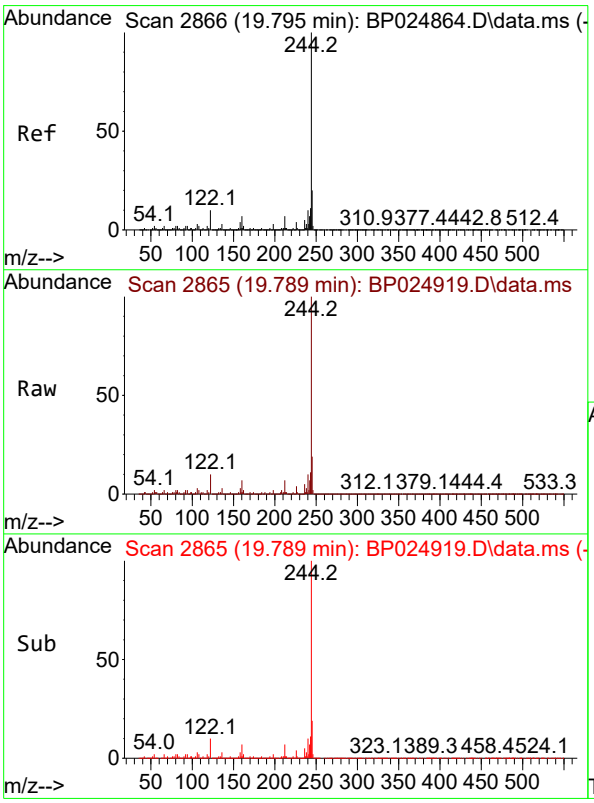
Tgt Ion:202 Resp: 47469

Ion	Ratio	Lower	Upper
202	100		
200	20.7	17.1	25.7
203	17.4	14.0	21.0



Instrument :
BNA_P
ClientSampleId :
B-207-SB02

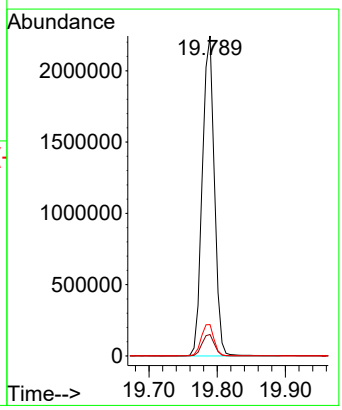
Manual Integrations
APPROVED
Reviewed By :Anahy Claudio 06/12/2025
Supervised By :mohammad ahmed 06/13/2025

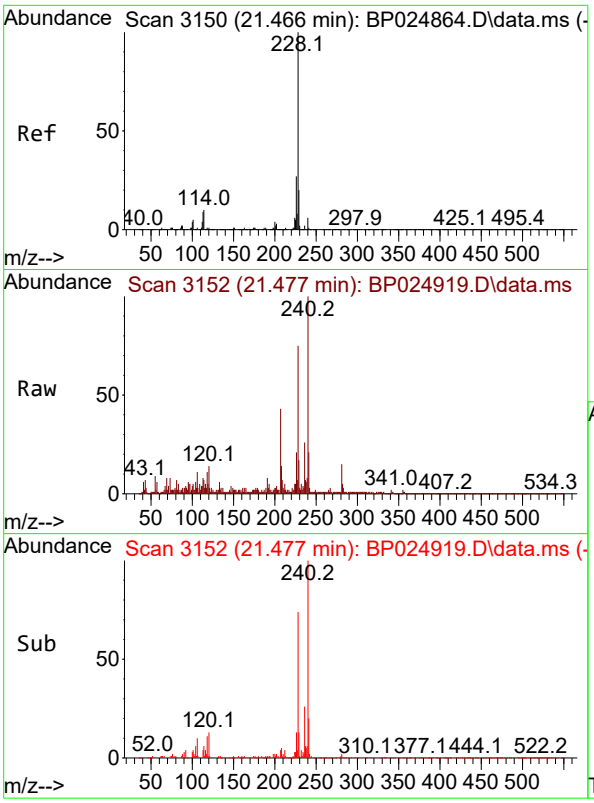


#79
Terphenyl-d14
Concen: 33.020 ng
RT: 19.789 min Scan# 2865
Delta R.T. -0.006 min
Lab File: BP024919.D
Acq: 11 Jun 2025 19:49

Tgt Ion:244 Resp: 2764041

Ion	Ratio	Lower	Upper
244	100		
212	6.7	5.6	8.4
122	9.8	7.7	11.5

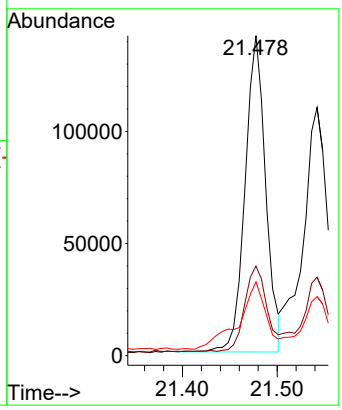




#81
Benzo(a)anthracene
Concen: 2.221 ng
RT: 21.477 min Scan# 3
Delta R.T. 0.012 min
Lab File: BP024919.D
Acq: 11 Jun 2025 19:49

Tgt Ion:228 Resp: 21314

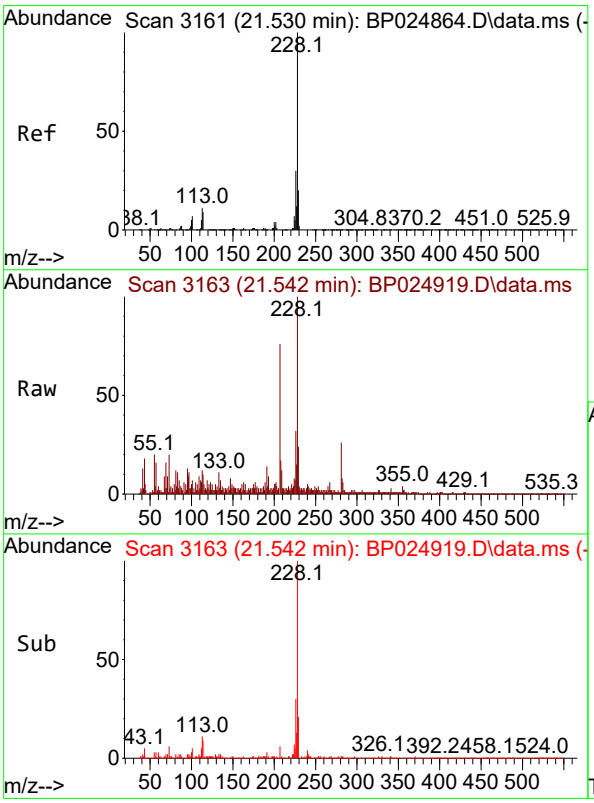
Ion	Ratio	Lower	Upper
228	100		
226	28.0	22.1	33.1
229	23.1	15.9	23.9



Instrument :
BNA_P
ClientSampleId :
B-207-SB02

Manual Integrations APPROVED

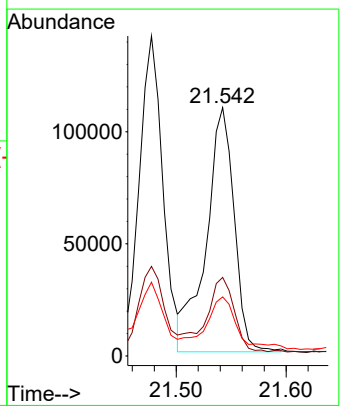
Reviewed By :Anahy Claudio 06/12/2025
Supervised By :mohammad ahmed 06/13/2025

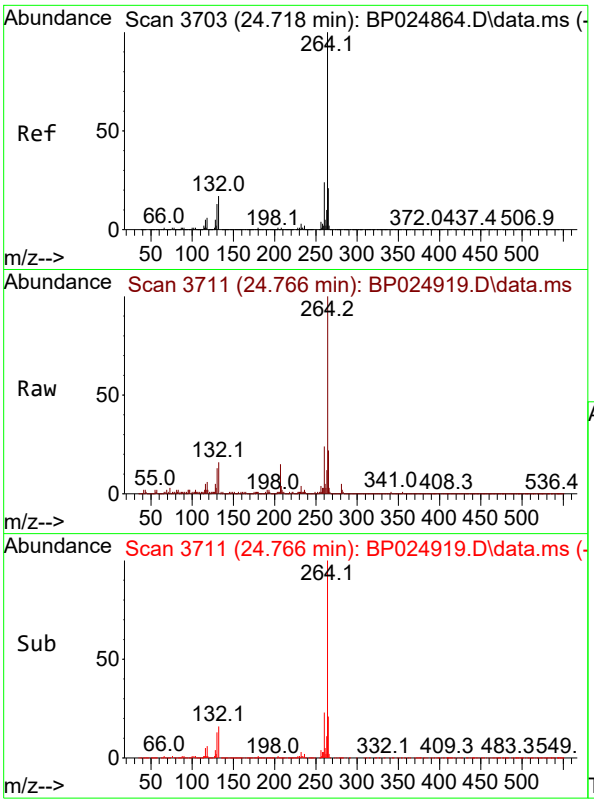


#83
Chrysene
Concen: 2.125 ng m
RT: 21.542 min Scan# 3163
Delta R.T. 0.012 min
Lab File: BP024919.D
Acq: 11 Jun 2025 19:49

Tgt Ion:228 Resp: 193206

Ion	Ratio	Lower	Upper
228	100		
226	31.7	23.8	35.6
229	23.8	15.6	23.4#

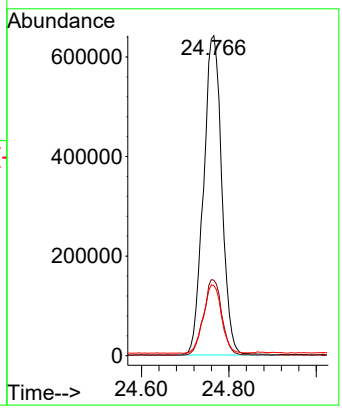




#86
Perylene-d12
Concen: 20.000 ng
RT: 24.766 min Scan# 3
Delta R.T. 0.047 min
Lab File: BP024919.D
Acq: 11 Jun 2025 19:49

Tgt Ion:264 Resp: 186384

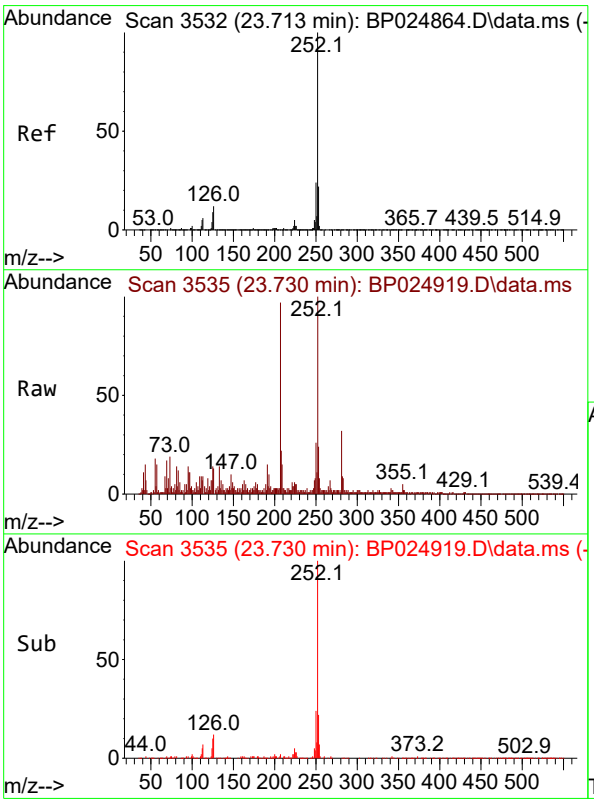
Ion	Ratio	Lower	Upper
264	100		
260	23.6	19.0	28.4
265	21.9	17.4	26.0



Instrument :
BNA_P
ClientSampleId :
B-207-SB02

Manual Integrations
APPROVED

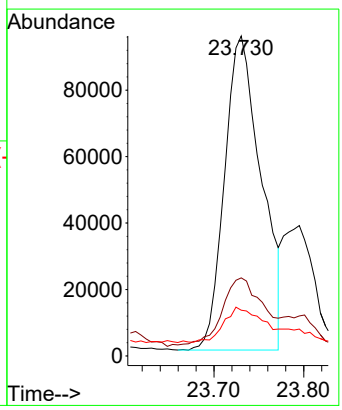
Reviewed By :Anahy Claudio 06/12/2025
Supervised By :mohammad ahmed 06/13/2025

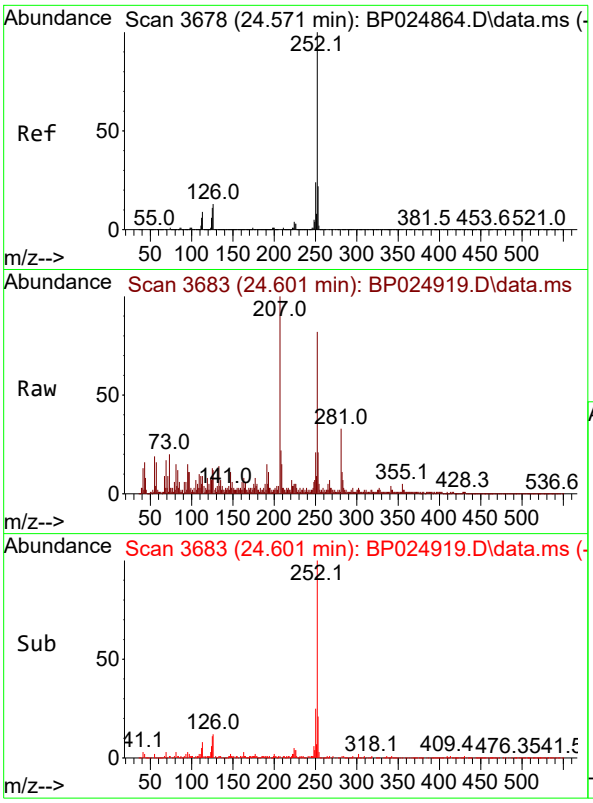


#88
Benzo(b)fluoranthene
Concen: 2.527 ng
RT: 23.730 min Scan# 3535
Delta R.T. 0.018 min
Lab File: BP024919.D
Acq: 11 Jun 2025 19:49

Tgt Ion:252 Resp: 269531

Ion	Ratio	Lower	Upper
252	100		
253	24.4	17.6	26.4
125	14.3	7.1	10.7#

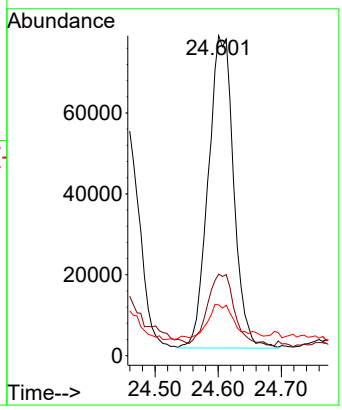




#90
Benzo(a)pyrene
Concen: 2.073 ng
RT: 24.601 min Scan# 3
Delta R.T. 0.029 min
Lab File: BP024919.D
Acq: 11 Jun 2025 19:49

Tgt Ion:252 Resp: 21593

Ion	Ratio	Lower	Upper
252	100		
253	25.5	17.5	26.3
125	15.8	8.8	13.2



Instrument :
BNA_P
ClientSampleId :
B-207-SB02

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio 06/12/2025
Supervised By :mohammad ahmed 06/13/2025

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP061125\
Data File : BP024919.D
Acq On : 11 Jun 2025 19:49
Operator : RC/JU
Sample : Q2198-03
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
B-207-SB02

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP060625.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BP024919.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.773	307	312	323	rBV	246955	360563	4.79%	0.605%
2	5.237	385	391	416	rBV	2497062	4074918	54.16%	6.838%
3	6.814	652	659	680	rBV	2413022	4327467	57.51%	7.261%
4	7.608	787	794	803	rBV	1030314	1613151	21.44%	2.707%
5	8.761	983	990	1009	rBV	1543696	2799282	37.20%	4.697%
6	10.384	1257	1266	1272	rBV	1182798	2168354	28.82%	3.638%
7	12.854	1679	1686	1703	rBV	3443221	5512556	73.26%	9.250%
8	13.566	1801	1807	1812	rBV	186942	307578	4.09%	0.516%
9	14.260	1917	1925	1932	rBV	1695758	2725957	36.23%	4.574%
10	15.643	2154	2160	2171	rBV	1036721	1358517	18.05%	2.280%
11	15.778	2176	2183	2194	rBV	3398336	5089720	67.64%	8.541%
12	16.219	2253	2258	2267	rBV	149065	213303	2.83%	0.358%
13	17.060	2395	2401	2405	rBV	2097879	3067884	40.77%	5.148%
14	17.101	2405	2408	2415	rVB	560057	910273	12.10%	1.527%
15	17.195	2421	2424	2431	rVB	117262	167682	2.23%	0.281%
16	17.472	2468	2471	2483	rVB3	57078	136840	1.82%	0.230%
17	18.001	2557	2561	2569	rBV2	541630	790162	10.50%	1.326%
18	18.166	2586	2589	2593	rVB2	74381	88616	1.18%	0.149%
19	18.442	2633	2636	2640	rBV4	59605	84900	1.13%	0.142%
20	19.189	2759	2763	2768	rBV	852960	1176188	15.63%	1.974%
21	19.336	2785	2788	2791	rBV	151977	194678	2.59%	0.327%
22	19.572	2824	2828	2832	rVB	694992	856352	11.38%	1.437%
23	19.789	2860	2865	2873	rVB	5941321	7524373	100.00%	12.626%
24	20.095	2914	2917	2922	rBV2	216011	292938	3.89%	0.492%
25	20.160	2926	2928	2932	rBV3	145110	167393	2.22%	0.281%
26	20.460	2975	2979	2983	rBV	1304732	1532756	20.37%	2.572%
27	20.507	2983	2987	2997	rBV3	914993	1617561	21.50%	2.714%
28	21.166	3094	3099	3106	rVB2	893471	1657910	22.03%	2.782%
29	21.495	3149	3155	3160	rBV	2739840	4249614	56.48%	7.131%
30	24.766	3703	3711	3721	rVB	1608372	4527508	60.17%	7.597%

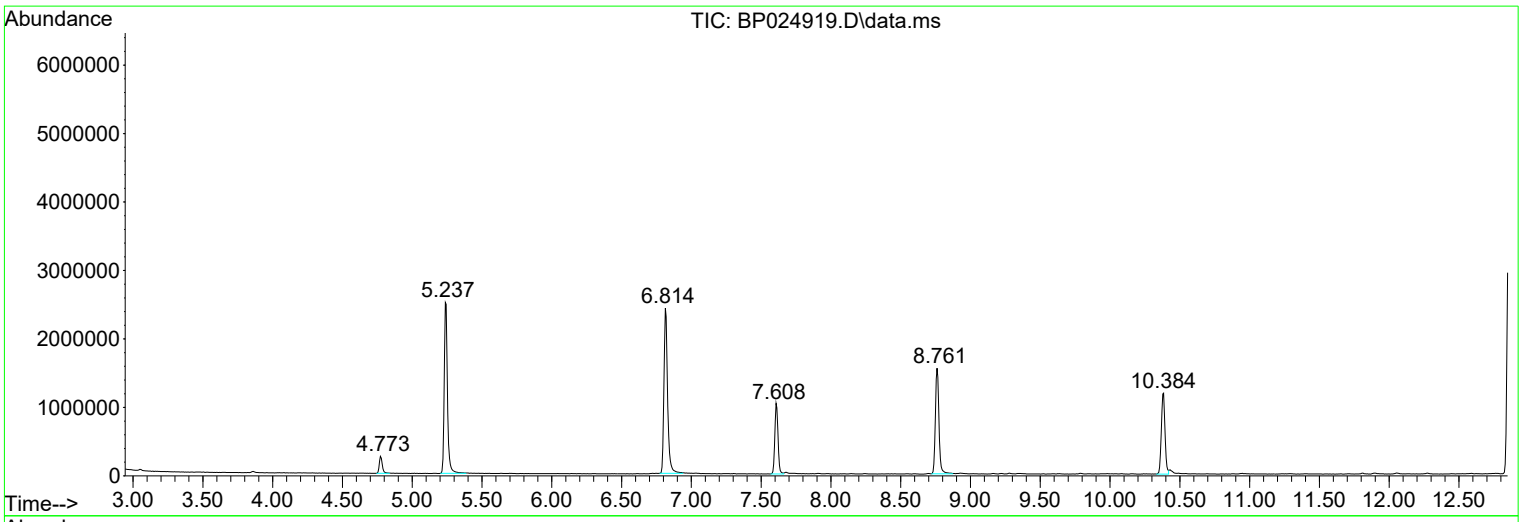
Sum of corrected areas: 59594994

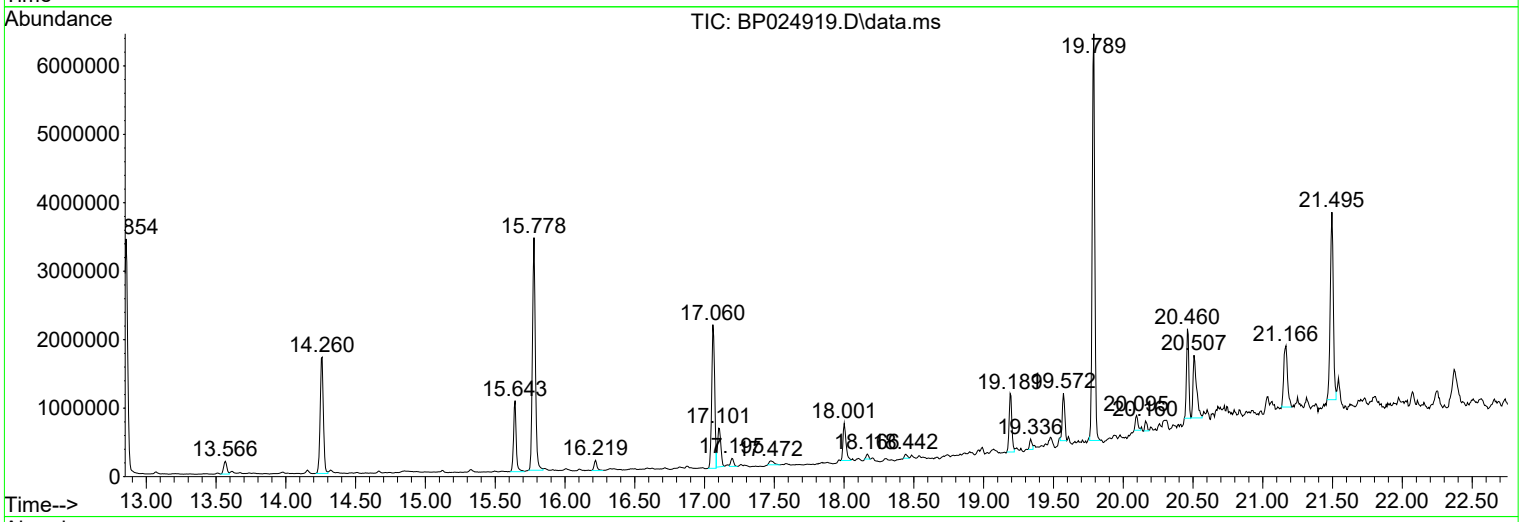
Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP061125\
Data File : BP024919.D
Acq On : 11 Jun 2025 19:49
Operator : RC/JU
Sample : Q2198-03
Misc :
ALS Vial : 16 Sample Multiplier: 1

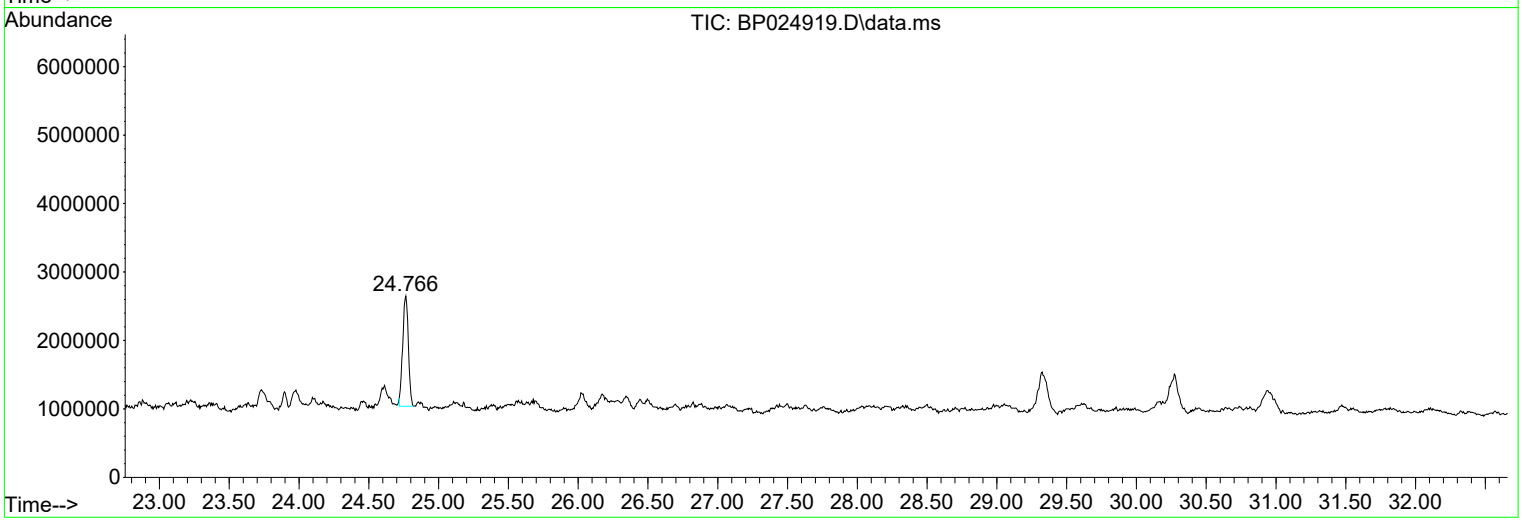
Instrument :
BNA_P
ClientSampleId :
B-207-SB02

Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP060625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P







Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP061125\
Data File : BP024919.D
Acq On : 11 Jun 2025 19:49
Operator : RC/JU
Sample : Q2198-03
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
B-207-SB02

Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP060625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

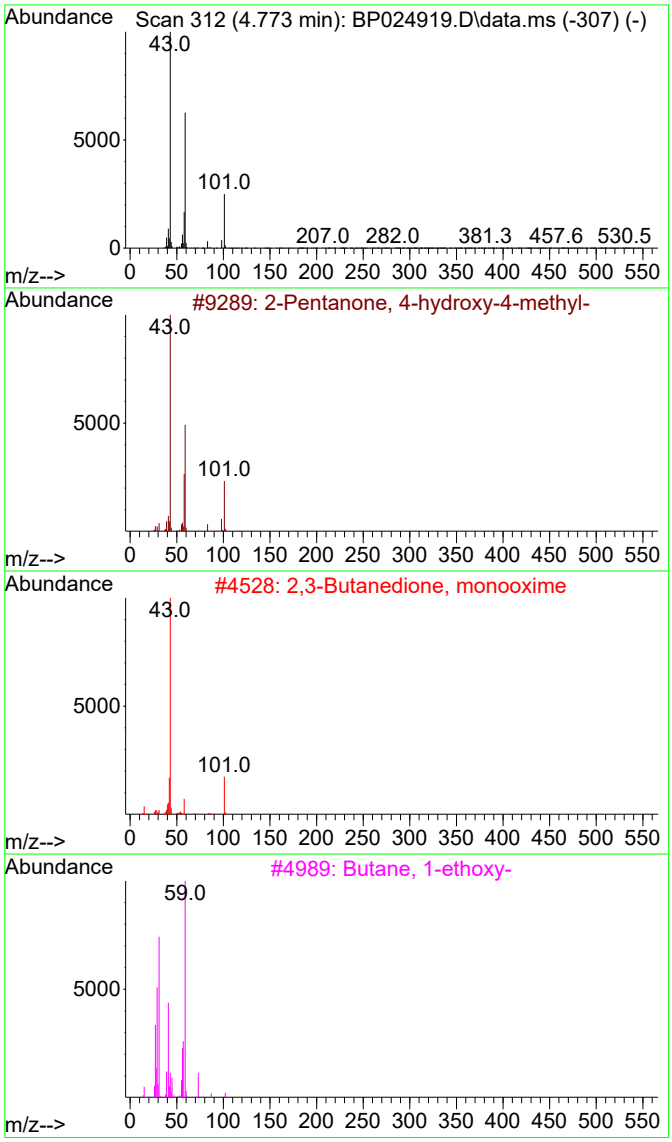
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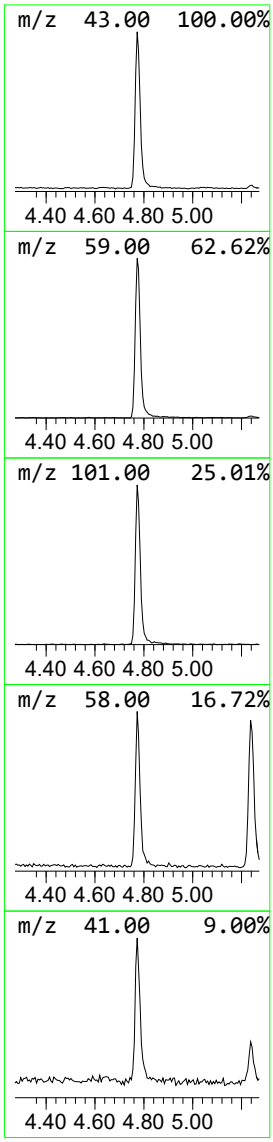
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Peak Number 1 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.773	4.47 ng	360563	1,4-Dichlorobenzene-d4	7.608

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	64
2	2,3-Butanedione, monooxime	101	C4H7NO2	000057-71-6	9
3	Butane, 1-ethoxy-	102	C6H14O	000628-81-9	9
4	Morpholine, 4-methyl-	101	C5H11NO	000109-02-4	9
5	Thiocyanic acid, propyl ester	101	C4H7NS	004251-16-5	9





Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP061125\
Data File : BP024919.D
Acq On : 11 Jun 2025 19:49
Operator : RC/JU
Sample : Q2198-03
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
B-207-SB02

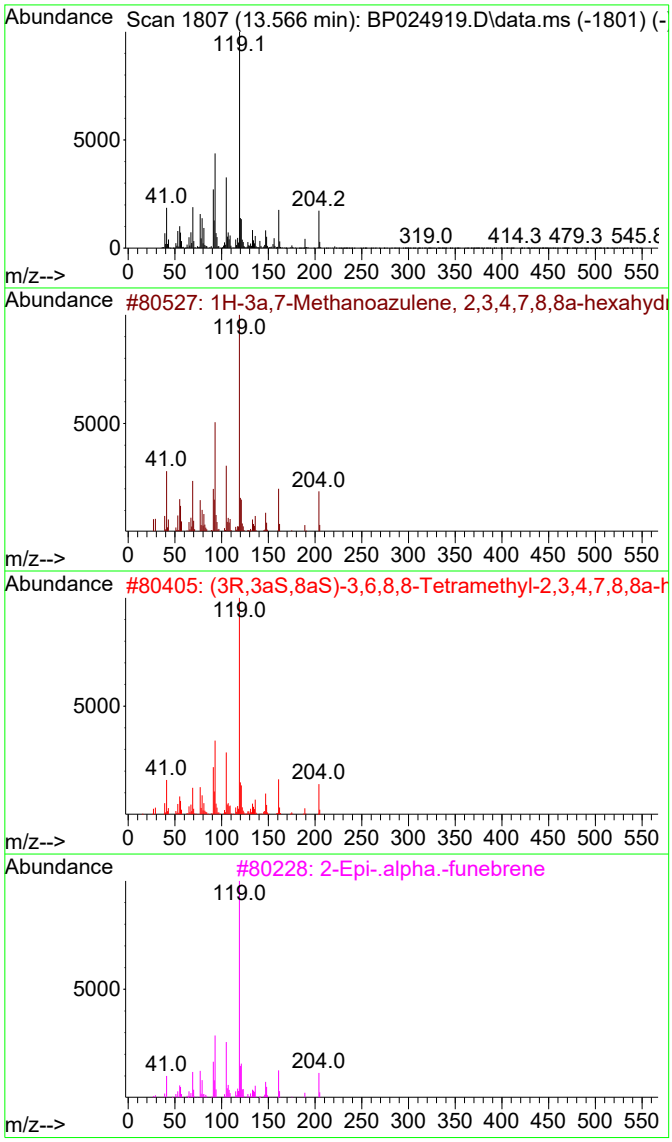
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

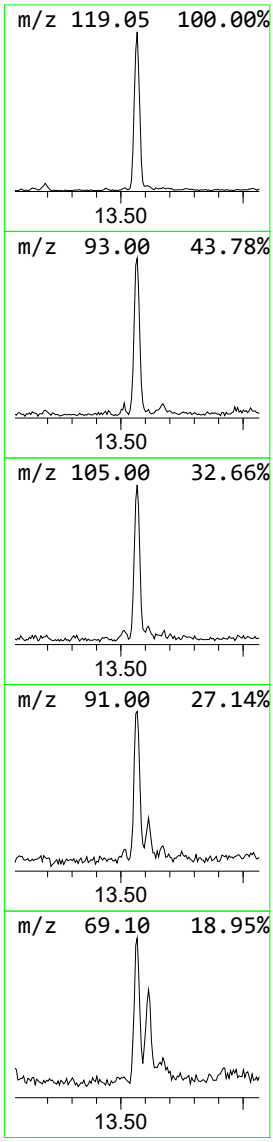
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 2 1H-3a,7-Methanoazulene, 2,3... Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.566	2.26 ng	307578	Acenaphthene-d10	14.260

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1H-3a,7-Methanoazulene, 2,3,4,7,...	204	C15H24	000469-61-4	99
2	(3R,3aS,8aS)-3,6,8,8-Tetramethyl...	204	C15H24	022567-43-7	98
3	2-Epi-.alpha.-funebrene	204	C15H24	065354-33-8	96
4	3,5,5,9-Tetramethyl-4a,5,6,7,8,9...	204	C15H24	1000412-94-8	89
5	trans-.alpha.-Bergamotene	204	C15H24	013474-59-4	87





Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP061125\
Data File : BP024919.D
Acq On : 11 Jun 2025 19:49
Operator : RC/JU
Sample : Q2198-03
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
B-207-SB02

Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP060625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

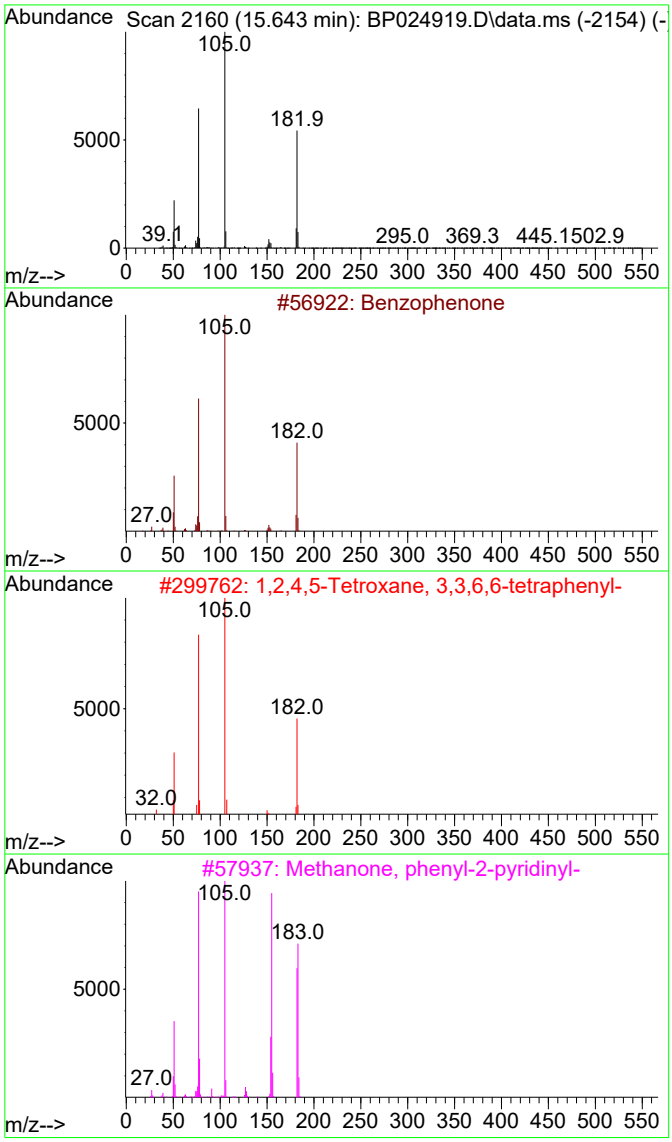
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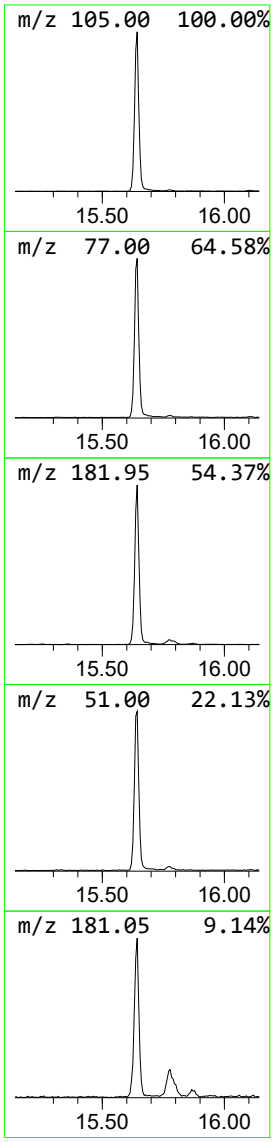
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Peak Number 3 Benzophenone Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.643	9.97 ng	1358520	Acenaphthene-d10	14.260

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzophenone	182	C13H10O	000119-61-9	97
2	1,2,4,5-Tetroxane, 3,3,6,6-tetra...	396	C26H20O4	016204-36-7	64
3	Methanone, phenyl-2-pyridinyl-	183	C12H9NO	000091-02-1	45
4	Benzenamine, N-(3-pyridinylmethy...	182	C12H10N2	029722-97-2	42
5	1,2,4-Trioxolane, 3,3,5-triphenyl-	304	C20H16O3	023246-12-0	40





Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP061125\
Data File : BP024919.D
Acq On : 11 Jun 2025 19:49
Operator : RC/JU
Sample : Q2198-03
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
B-207-SB02

Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP060625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

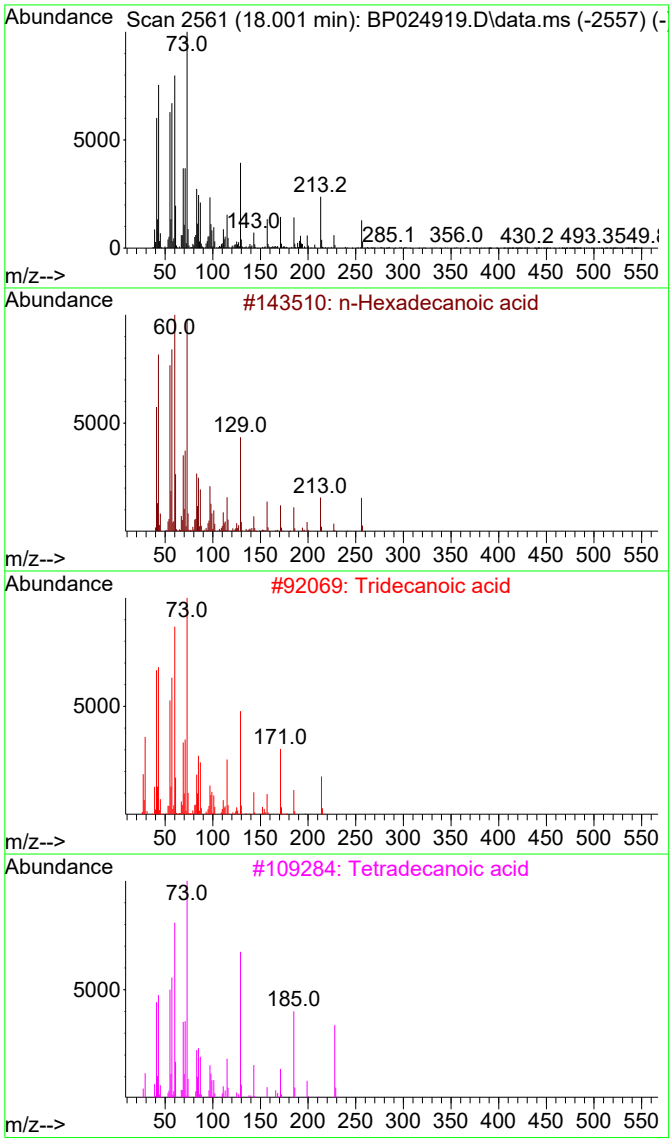
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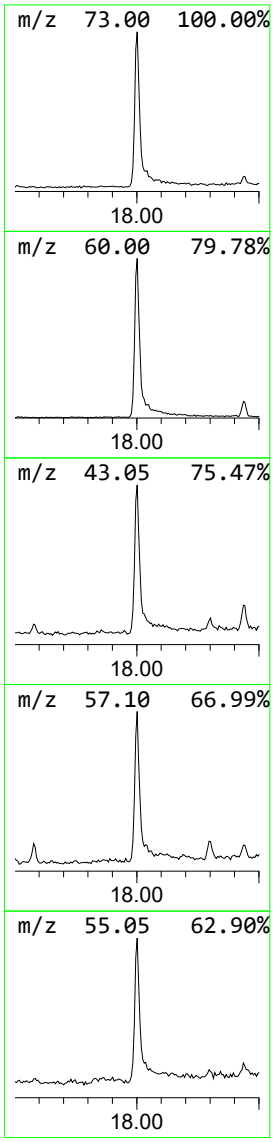
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Peak Number 4 n-Hexadecanoic acid Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.001	5.15 ng	790162	Phenanthrene-d10	17.060

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	99
2	Tridecanoic acid	214	C13H26O2	000638-53-9	94
3	Tetradecanoic acid	228	C14H28O2	000544-63-8	94
4	Octadecanoic acid	284	C18H36O2	000057-11-4	81
5	Pentadecanoic acid	242	C15H30O2	001002-84-2	81





Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP061125\
Data File : BP024919.D
Acq On : 11 Jun 2025 19:49
Operator : RC/JU
Sample : Q2198-03
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
B-207-SB02

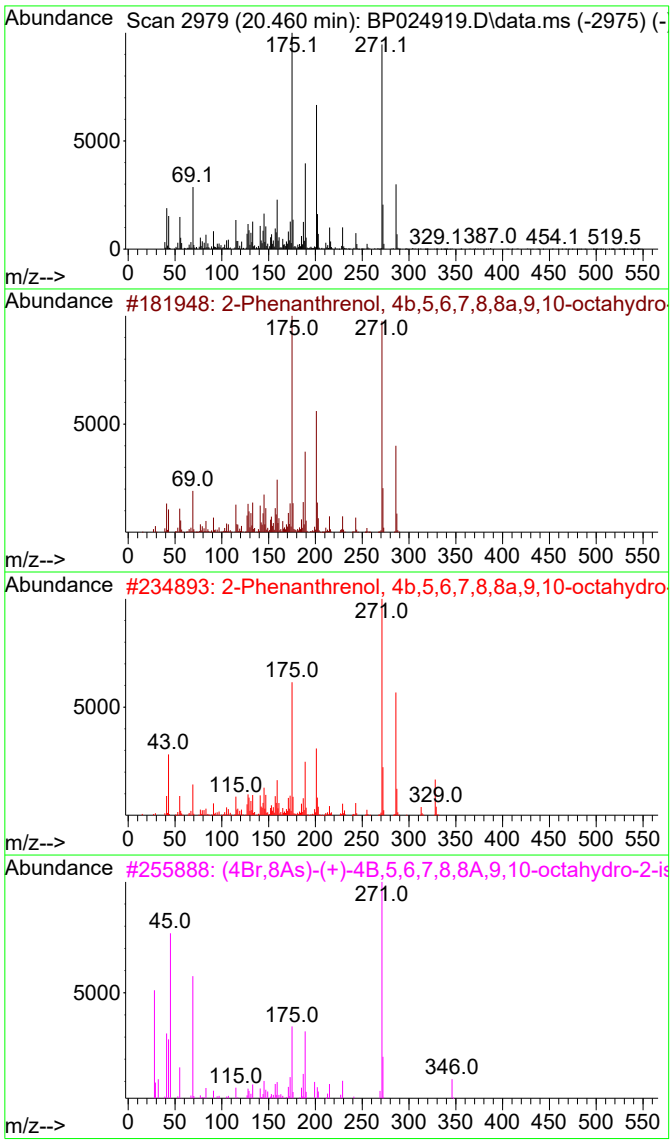
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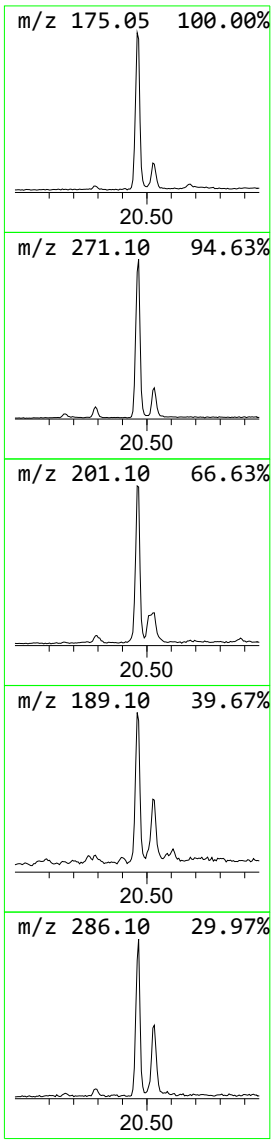
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 5 2-Phenanthrenol, 4b,5,6,7,8... Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.460	7.21 ng	1532760	Chrysene-d12	21.495

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Phenanthrenol, 4b,5,6,7,8,8a,9...	286	C20H30O	000511-15-9	99
2	2-Phenanthrenol, 4b,5,6,7,8,8a,9...	328	C22H32O2	015340-82-6	90
3	(4Br,8As)-(+)-4B,5,6,7,8,8A,9,10...	346	C22H34O3	1000426-72-2	46
4	13-Isopropylpodocarpen-12-ol-20-al	300	C20H28O2	024035-37-8	43
5	Pisiferol	302	C20H30O2	024035-36-7	35





Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP061125\
Data File : BP024919.D
Acq On : 11 Jun 2025 19:49
Operator : RC/JU
Sample : Q2198-03
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
B-207-SB02

Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP060625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

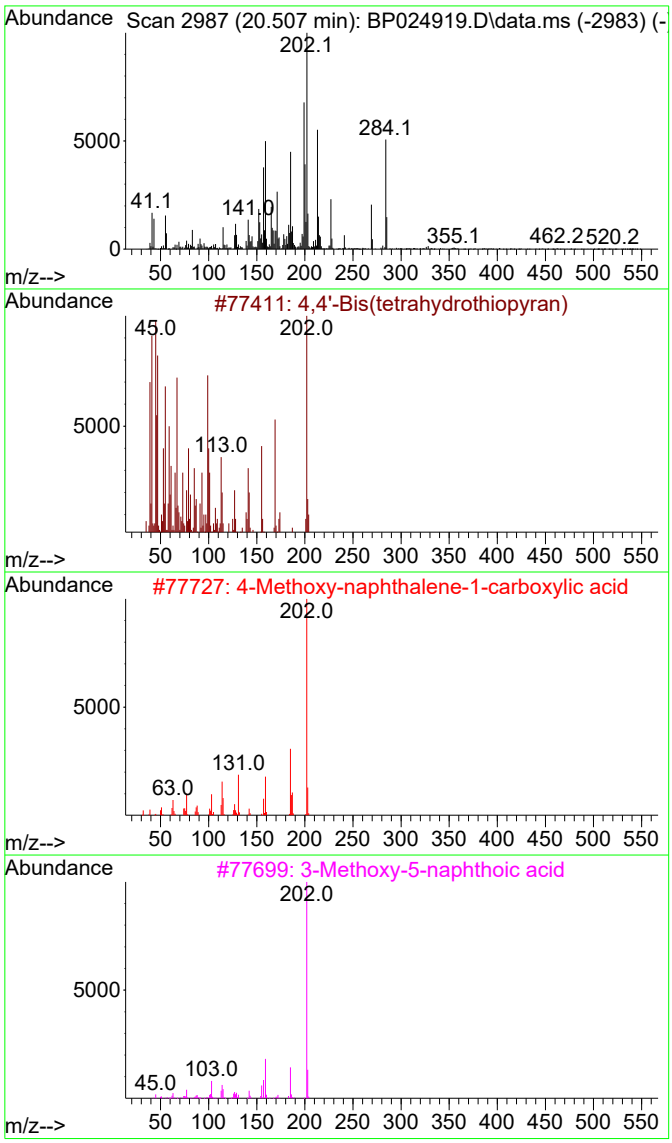
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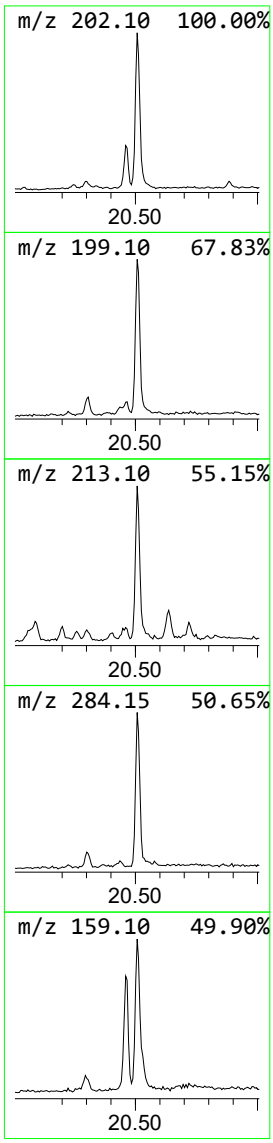
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Peak Number 6 4,4'-Bis(tetrahydrothiopyran) Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.507	7.61 ng	1617560	Chrysene-d12	21.495

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4,4'-Bis(tetrahydrothiopyran)	202	C10H18S2	116196-83-9	91
2	4-Methoxy-naphthalene-1-carboxyl...	202	C12H10O3	1000317-85-4	22
3	3-Methoxy-5-naphthoic acid	202	C12H10O3	007498-58-0	22
4	5-Hydroxy-3-methyl-1-phenylpyraz...	202	C11H10N2O2	060484-29-9	20
5	1-Naphthalenecarboxylic acid, 2-...	202	C12H10O3	000947-62-6	18





Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP061125\
Data File : BP024919.D
Acq On : 11 Jun 2025 19:49
Operator : RC/JU
Sample : Q2198-03
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
B-207-SB02

Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP060625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

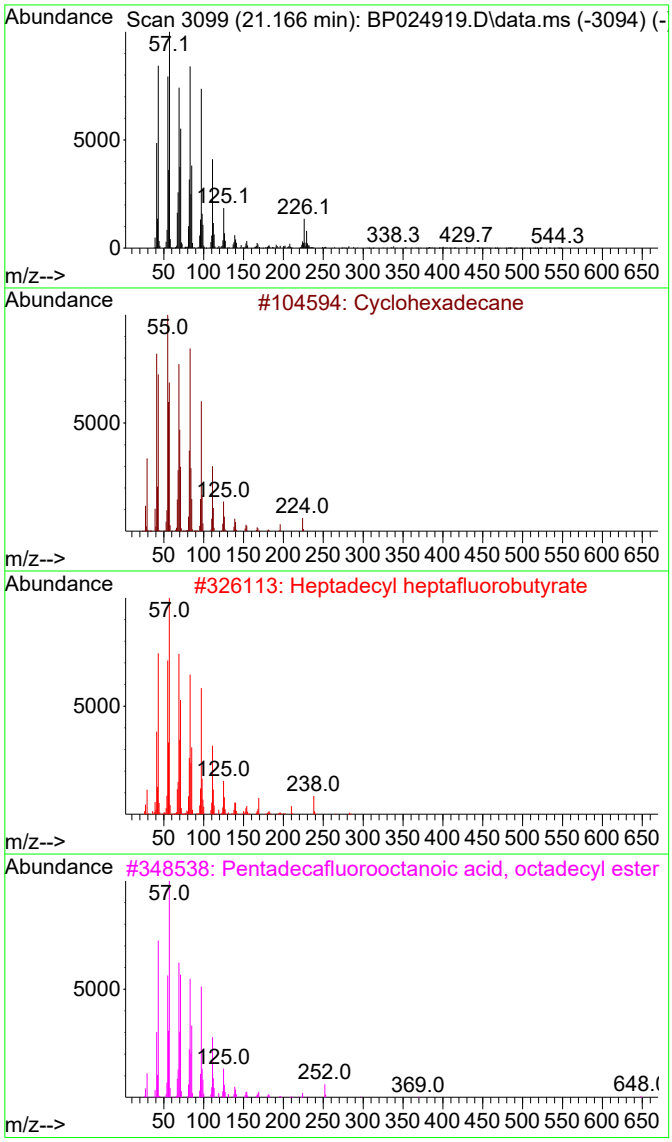
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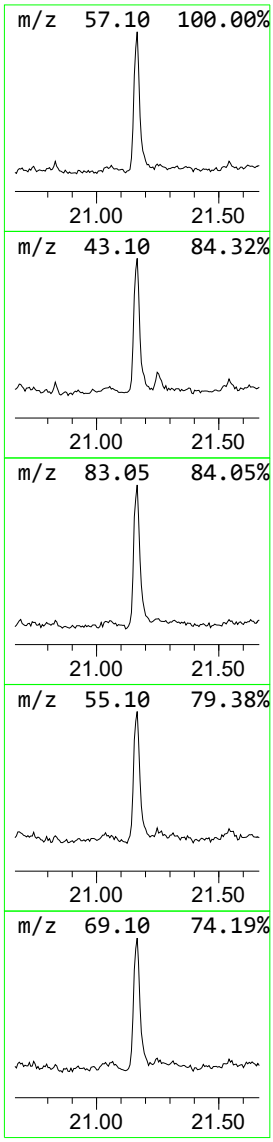
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Peak Number 7 Cyclohexadecane Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.166	7.80 ng	1657910	Chrysene-d12	21.495

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexadecane	224	C16H32	000295-65-8	94
2	Heptadecyl heptafluorobutyrate	452	C21H35F7O2	959085-66-6	94
3	Pentadecafluorooctanoic acid, oc...	666	C26H37F15O2	1000406-04-8	93
4	1-Hexacosene	364	C26H52	018835-33-1	93
5	Heptacos-1-ene	378	C27H54	015306-27-1	91





Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP061125\
Data File : BP024919.D
Acq On : 11 Jun 2025 19:49
Operator : RC/JU
Sample : Q2198-03
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
B-207-SB02

Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP060625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
2-Pentanone, 4-...	4.773	4.5	ng	360563	1	7.608	1613150	20.0
1H-3a,7-Methano...	13.566	2.3	ng	307578	3	14.260	2725960	20.0
Benzophenone	15.643	10.0	ng	1358520	3	14.260	2725960	20.0
n-Hexadecanoic ...	18.001	5.2	ng	790162	4	17.060	3067880	20.0
2-Phenanthrenol...	20.460	7.2	ng	1532760	5	21.495	4249610	20.0
4,4'-Bis(tetrah...	20.507	7.6	ng	1617560	5	21.495	4249610	20.0
Cyclohexadecane	21.166	7.8	ng	1657910	5	21.495	4249610	20.0

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF060625\
Data File : BF142653.D
Acq On : 06 Jun 2025 18:31
Operator : RC/JU
Sample : Q2198-05
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-202-GW01

Quant Time: Jun 06 22:56:27 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 20 16:26:47 2025
Response via : Initial Calibration

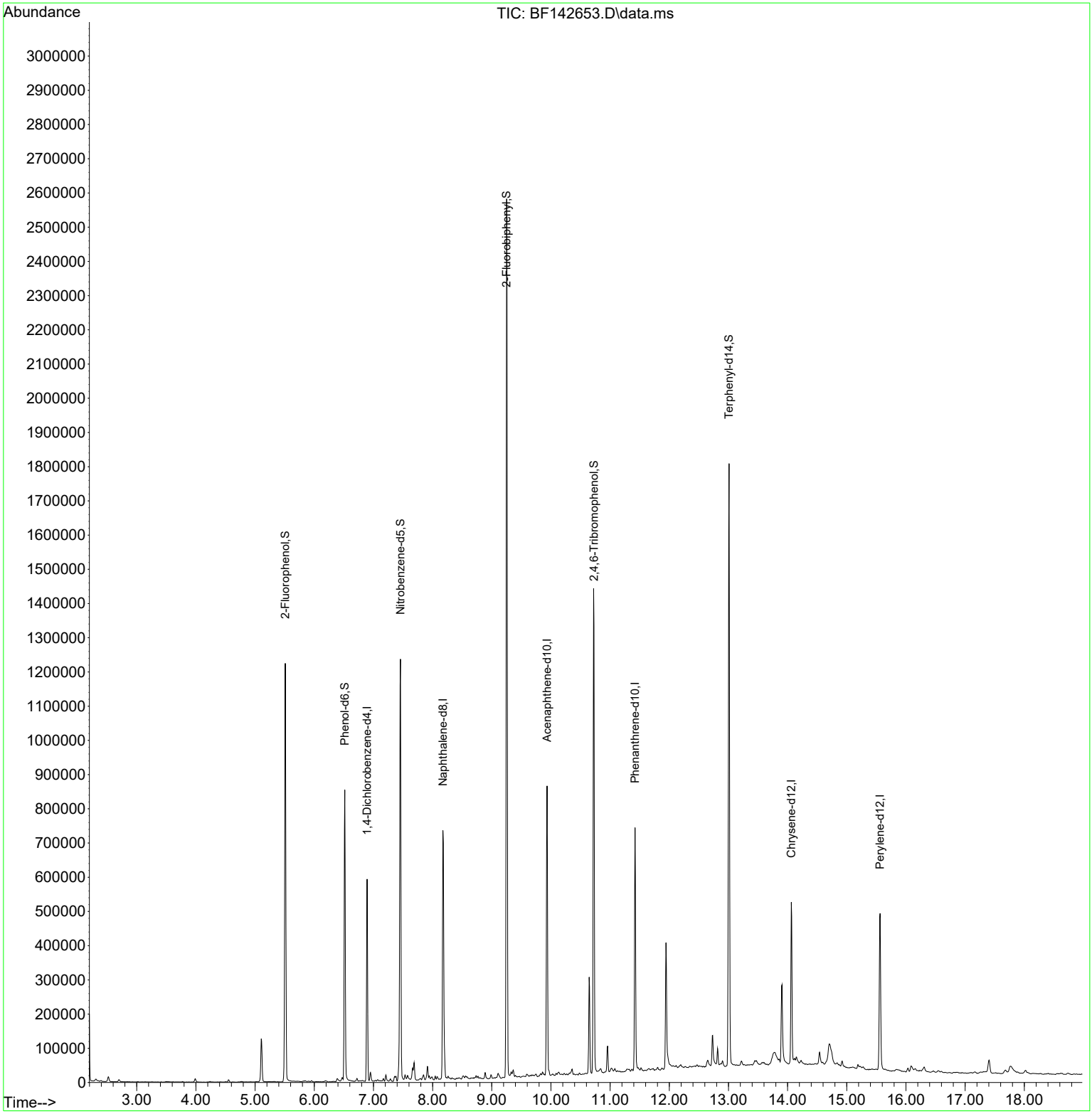
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.892	152	128178	20.000	ng	-0.01
21) Naphthalene-d8	8.175	136	474023	20.000	ng	-0.01
39) Acenaphthene-d10	9.933	164	251177	20.000	ng	-0.01
64) Phenanthrene-d10	11.422	188	369246	20.000	ng	-0.01
76) Chrysene-d12	14.063	240	237734	20.000	ng	#-0.01
86) Perylene-d12	15.562	264	277909	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.510	112	463907	60.975	ng	0.00
7) Phenol-d6	6.516	99	396110	43.251	ng	-0.02
23) Nitrobenzene-d5	7.457	82	552796	63.590	ng	-0.02
42) 2,4,6-Tribromophenol	10.727	330	256731	92.093	ng	-0.01
45) 2-Fluorobiphenyl	9.251	172	1172336	62.630	ng	-0.02
79) Terphenyl-d14	13.010	244	875765	50.341	ng	0.00
Target Compounds						Qvalue

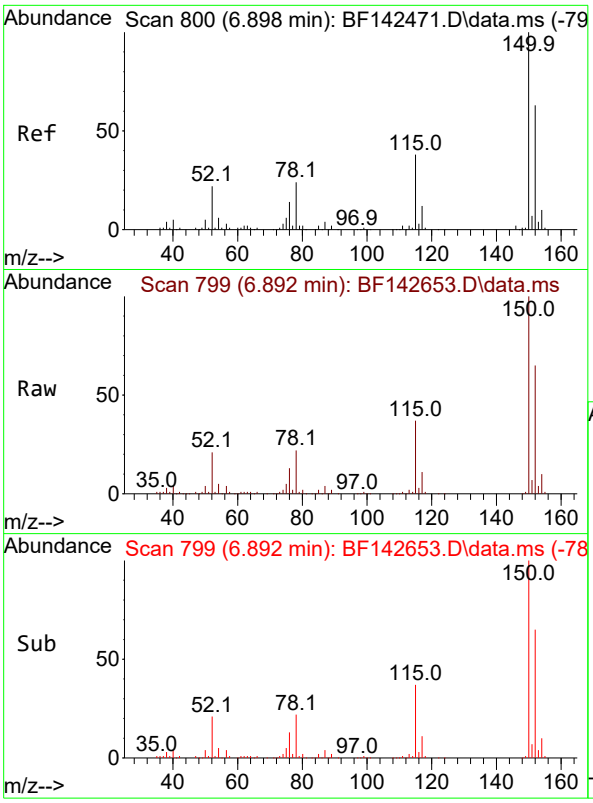
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Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF060625\
Data File : BF142653.D
Acq On : 06 Jun 2025 18:31
Operator : RC/JU
Sample : Q2198-05
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-202-GW01

Quant Time: Jun 06 22:56:27 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 20 16:26:47 2025
Response via : Initial Calibration



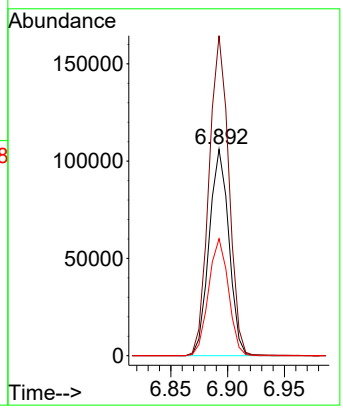


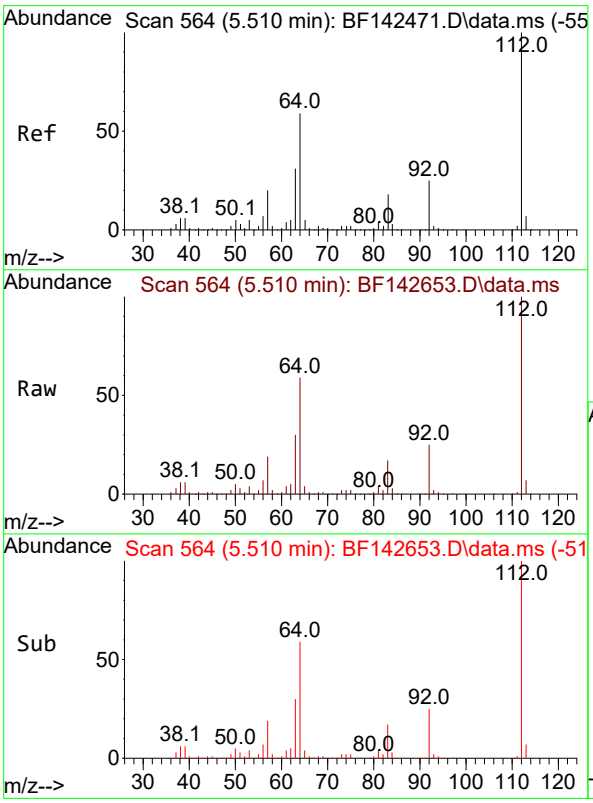
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.892 min Scan# 7
Delta R.T. -0.012 min
Lab File: BF142653.D
Acq: 06 Jun 2025 18:31

Instrument :
BNA_F
ClientSampleId :
B-202-GW01

Tgt Ion:152 Resp: 128178

Ion	Ratio	Lower	Upper
152	100		
150	155.0	128.2	192.4
115	56.7	48.3	72.5

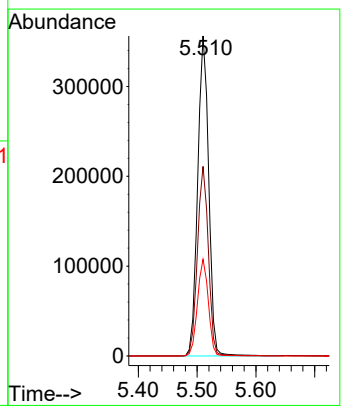


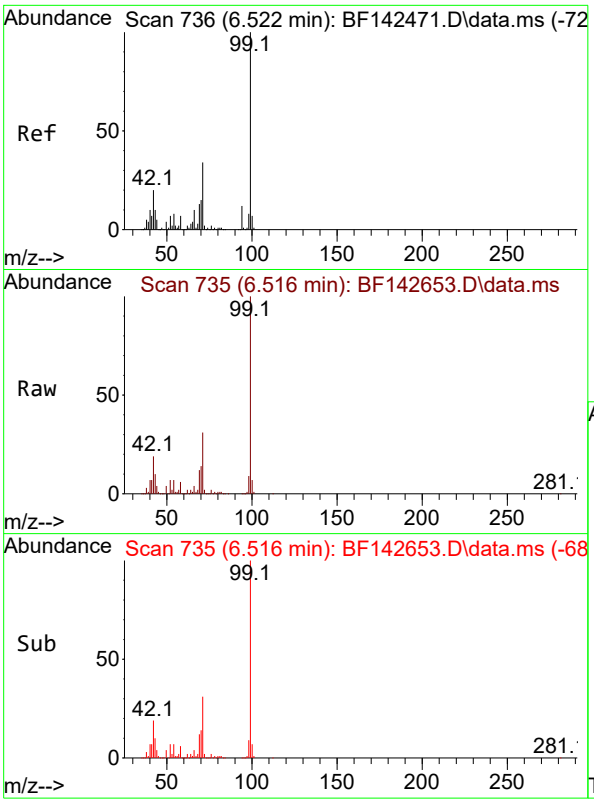


#5
2-Fluorophenol
Concen: 60.975 ng
RT: 5.510 min Scan# 564
Delta R.T. -0.006 min
Lab File: BF142653.D
Acq: 06 Jun 2025 18:31

Tgt Ion:112 Resp: 463907

Ion	Ratio	Lower	Upper
112	100		
64	59.2	47.5	71.3
63	30.2	24.9	37.3



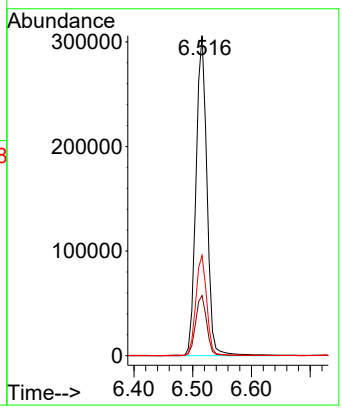


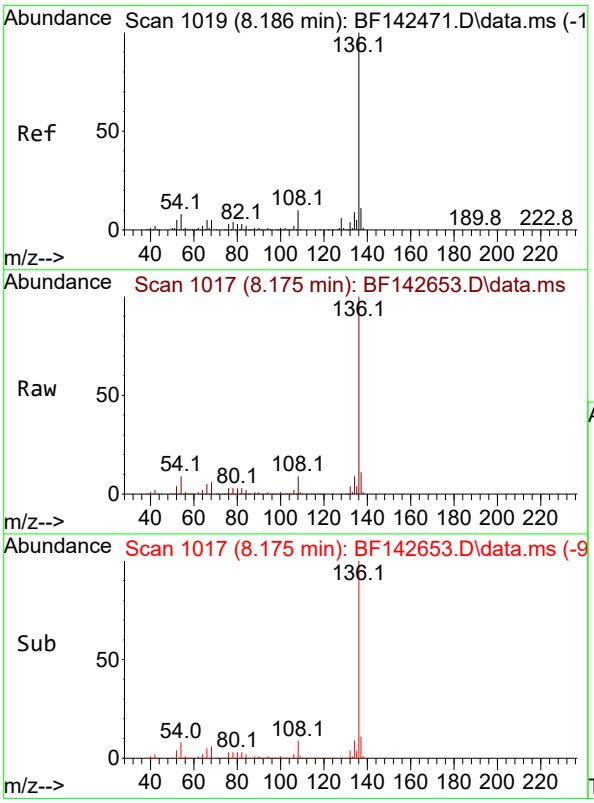
#7
Phenol-d6
Concen: 43.251 ng
RT: 6.516 min Scan# 7
Delta R.T. -0.018 min
Lab File: BF142653.D
Acq: 06 Jun 2025 18:31

Instrument :
BNA_F
ClientSampleId :
B-202-GW01

Tgt Ion: 99 Resp: 396110

Ion	Ratio	Lower	Upper
99	100		
42	18.8	16.2	24.2
71	31.3	27.3	40.9

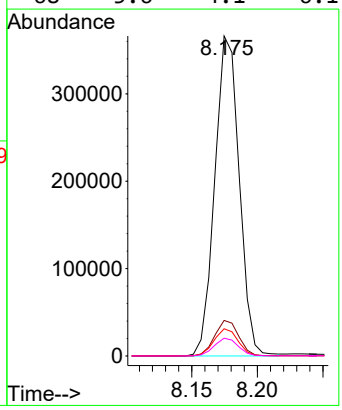


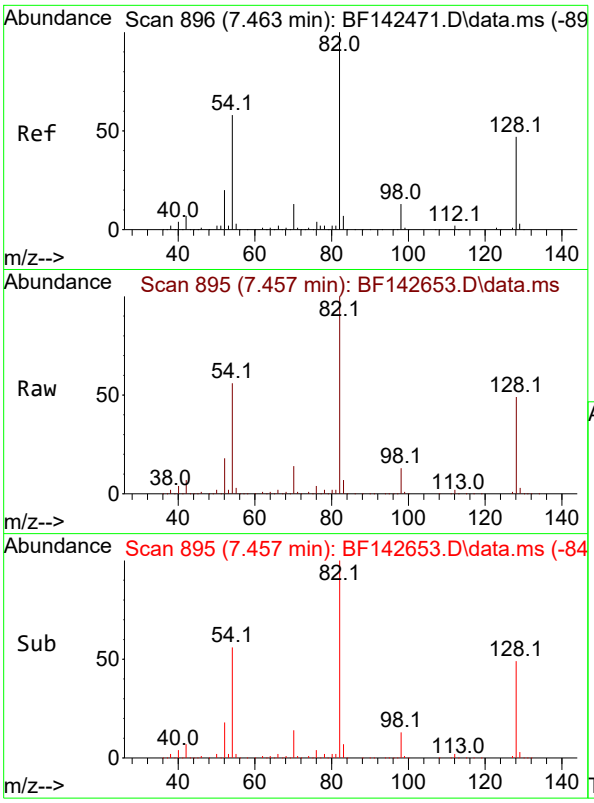


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.175 min Scan# 1017
Delta R.T. -0.012 min
Lab File: BF142653.D
Acq: 06 Jun 2025 18:31

Tgt Ion:136 Resp: 474023

Ion	Ratio	Lower	Upper
136	100		
137	11.1	8.6	13.0
54	8.5	6.6	10.0
68	5.6	4.1	6.1



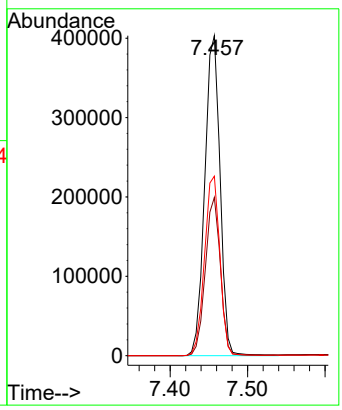


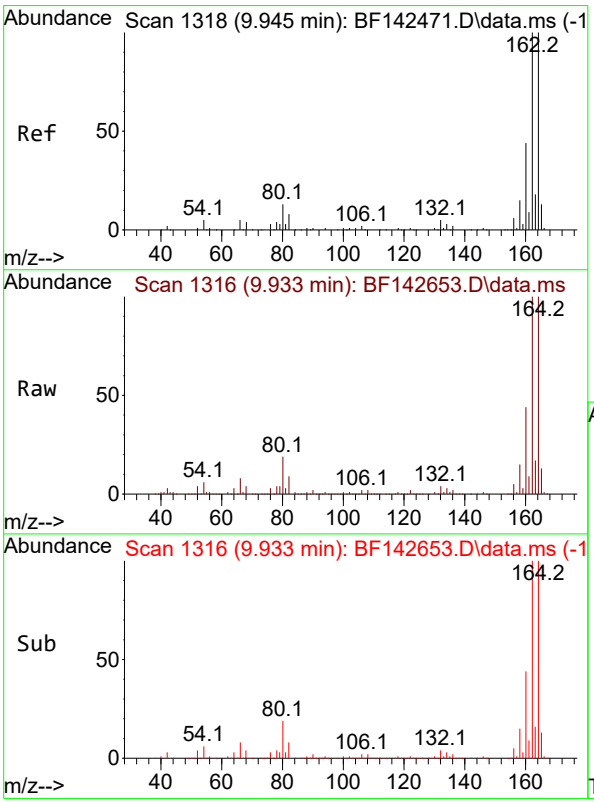
#23
Nitrobenzene-d5
Concen: 63.590 ng
RT: 7.457 min Scan# 8
Delta R.T. -0.018 min
Lab File: BF142653.D
Acq: 06 Jun 2025 18:31

Instrument :
BNA_F
ClientSampleId :
B-202-GW01

Tgt Ion: 82 Resp: 552796

Ion	Ratio	Lower	Upper
82	100		
128	49.5	37.4	56.2
54	56.1	46.6	70.0

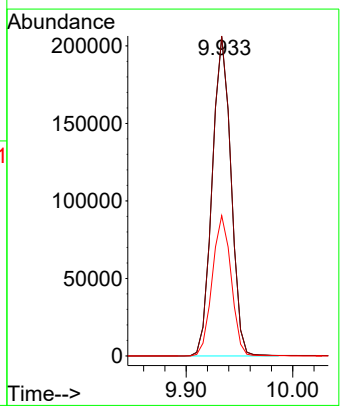


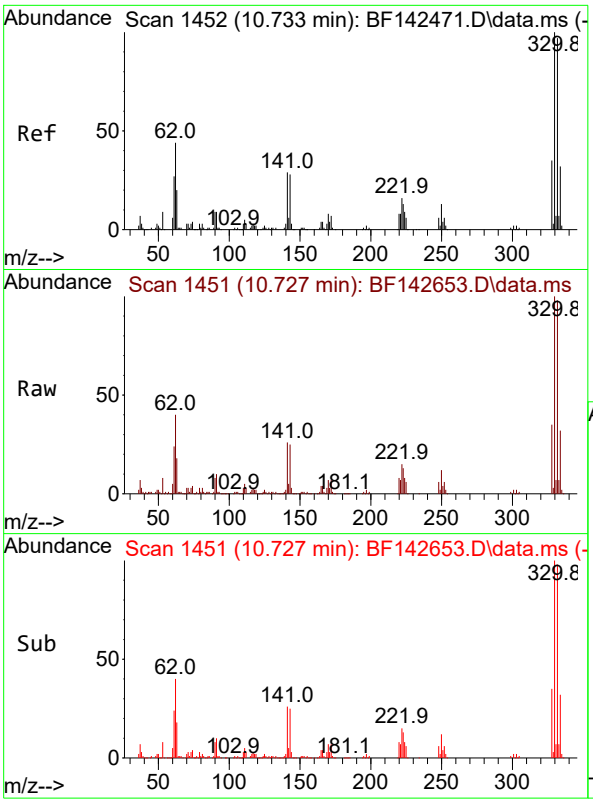


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.933 min Scan# 1316
Delta R.T. -0.012 min
Lab File: BF142653.D
Acq: 06 Jun 2025 18:31

Tgt Ion:164 Resp: 251177

Ion	Ratio	Lower	Upper
164	100		
162	100.5	80.2	120.4
160	44.1	35.6	53.4



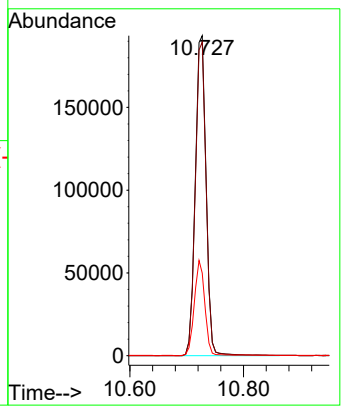


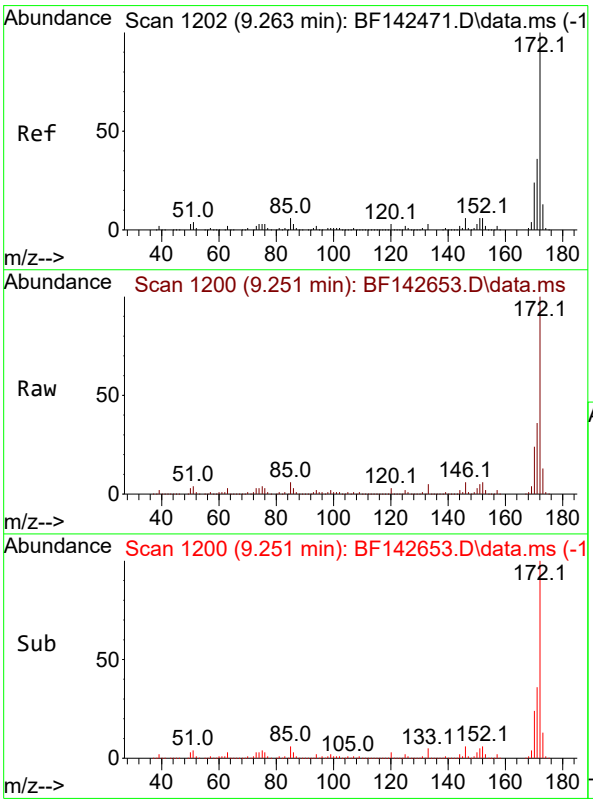
#42
2,4,6-Tribromophenol
Concen: 92.093 ng
RT: 10.727 min Scan# 14
Delta R.T. -0.012 min
Lab File: BF142653.D
Acq: 06 Jun 2025 18:31

Instrument :
BNA_F
ClientSampleId :
B-202-GW01

Tgt Ion:330 Resp: 256731

Ion	Ratio	Lower	Upper
330	100		
332	97.6	77.6	116.4
141	29.0	24.6	36.8

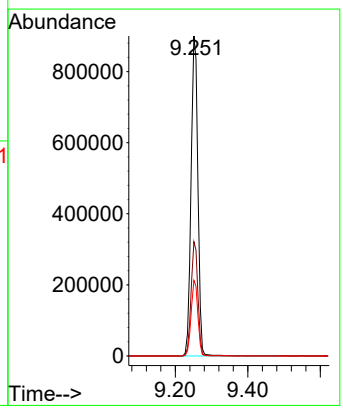


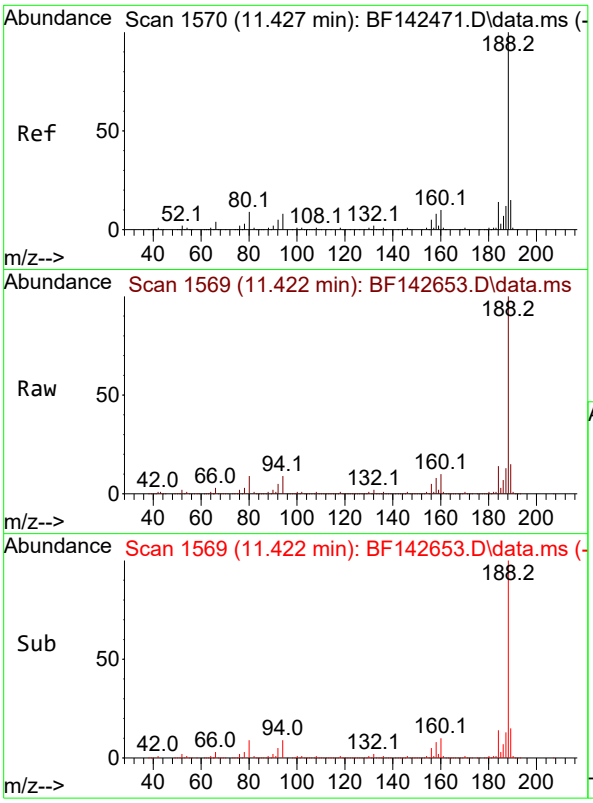


#45
2-Fluorobiphenyl
Concen: 62.630 ng
RT: 9.251 min Scan# 1200
Delta R.T. -0.018 min
Lab File: BF142653.D
Acq: 06 Jun 2025 18:31

Tgt Ion:172 Resp: 1172336

Ion	Ratio	Lower	Upper
172	100		
171	35.7	28.6	42.8
170	23.6	18.9	28.3



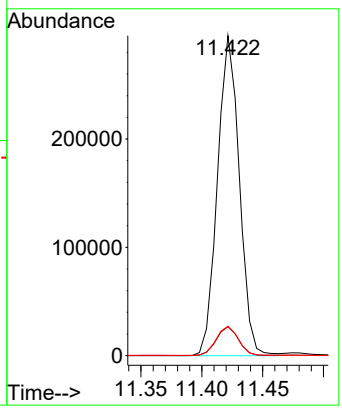


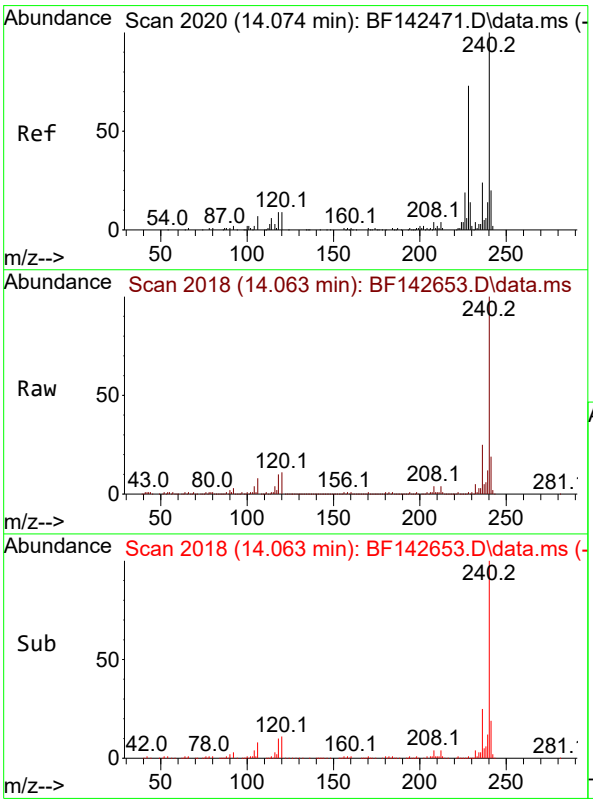
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.422 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF142653.D
Acq: 06 Jun 2025 18:31

Instrument :
BNA_F
ClientSampleId :
B-202-GW01

Tgt Ion:188 Resp: 369246

Ion	Ratio	Lower	Upper
188	100		
94	9.1	6.6	10.0
80	9.2	7.4	11.0

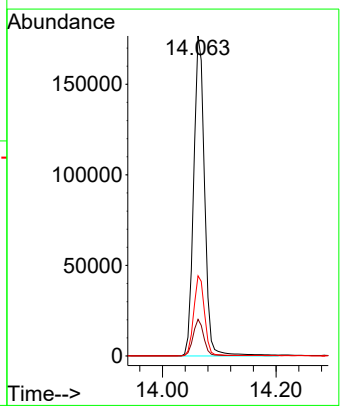


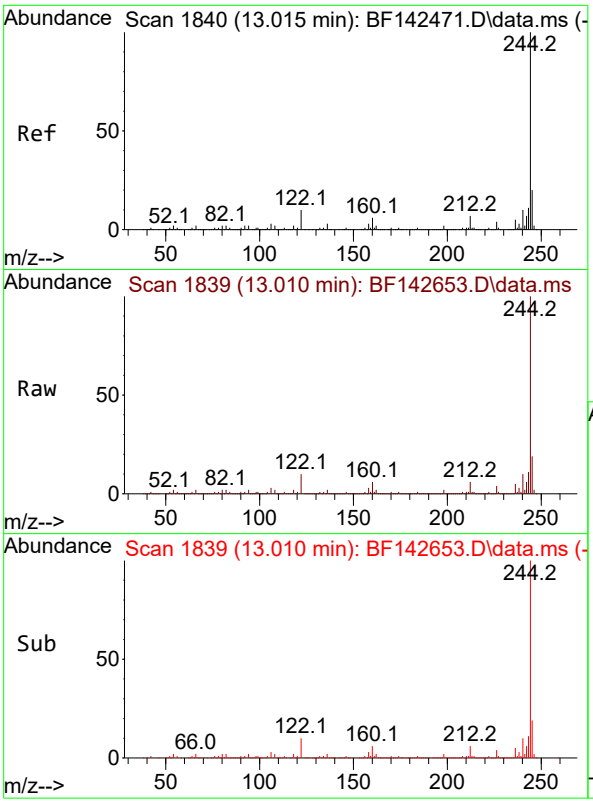


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.063 min Scan# 2018
Delta R.T. -0.012 min
Lab File: BF142653.D
Acq: 06 Jun 2025 18:31

Tgt Ion:240 Resp: 237734

Ion	Ratio	Lower	Upper
240	100		
120	11.4	7.5	11.3#
236	25.1	19.6	29.4



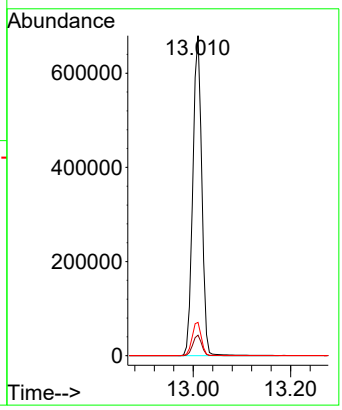


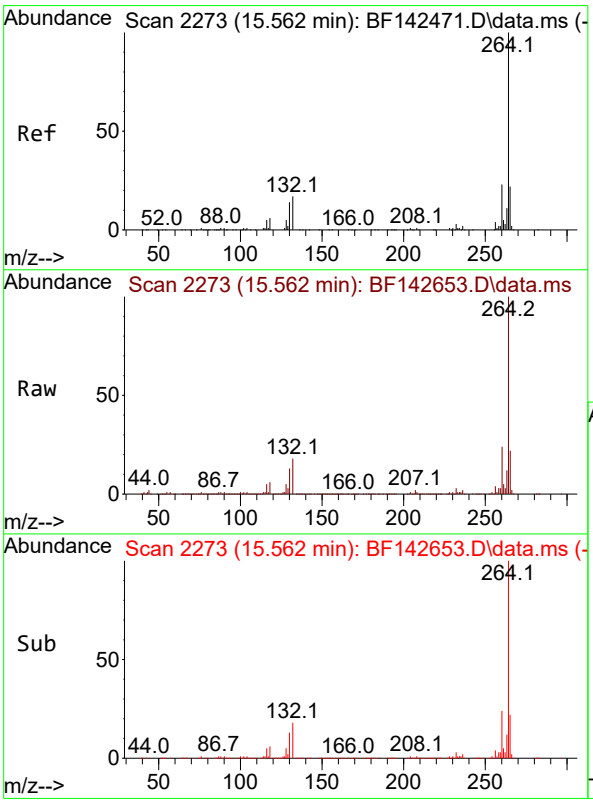
#79
Terphenyl-d14
Concen: 50.341 ng
RT: 13.010 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF142653.D
Acq: 06 Jun 2025 18:31

Instrument :
BNA_F
ClientSampleId :
B-202-GW01

Tgt Ion:244 Resp: 875765

Ion	Ratio	Lower	Upper
244	100		
212	6.4	5.3	7.9
122	10.4	8.2	12.2

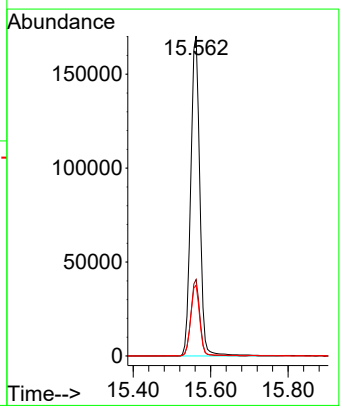




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.562 min Scan# 2273
Delta R.T. -0.006 min
Lab File: BF142653.D
Acq: 06 Jun 2025 18:31

Tgt Ion:264 Resp: 277909

Ion	Ratio	Lower	Upper
264	100		
260	23.9	18.6	28.0
265	22.1	17.7	26.5



Sample Results: **BF142653.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF060625\
Data File : BF142653.D
Acq On : 06 Jun 2025 18:31
Operator : RC/JU
Sample : Q2198-05
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-202-GW01

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF142653.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	5.104	487	495	509	rBV	125824	189099	5.75%	0.976%
2	5.510	556	564	569	rBV	1223331	1589526	48.31%	8.203%
3	6.516	730	735	747	rVB	848923	1093184	33.22%	5.641%
4	6.892	794	799	804	rBV	590862	717647	21.81%	3.703%
5	6.951	804	809	815	rVB	25353	35396	1.08%	0.183%
6	7.457	885	895	900	rBV	1233105	1728822	52.54%	8.922%
7	7.663	924	930	932	rBV2	32935	51927	1.58%	0.268%
8	7.686	932	934	942	rVB	51537	59811	1.82%	0.309%
9	7.910	966	972	976	rBV2	38895	61477	1.87%	0.317%
10	8.175	1012	1017	1025	rBV	724431	1028314	31.25%	5.307%
11	9.251	1194	1200	1205	rBV	2568163	3290518	100.00%	16.981%
12	9.933	1311	1316	1321	rBV	844791	1041731	31.66%	5.376%
13	10.645	1432	1437	1444	rBV	281633	358707	10.90%	1.851%
14	10.722	1445	1450	1459	rBV	1416282	1854344	56.35%	9.570%
15	10.957	1486	1490	1495	rVB	75420	92136	2.80%	0.475%
16	11.422	1564	1569	1576	rBV	708719	902365	27.42%	4.657%
17	11.945	1653	1658	1676	rBV	367636	575918	17.50%	2.972%
18	12.733	1787	1792	1802	rBV	88060	151823	4.61%	0.783%
19	12.816	1803	1806	1811	rVB	47724	58615	1.78%	0.302%
20	13.010	1833	1839	1852	rBV	1759914	2324588	70.65%	11.996%
21	13.904	1986	1991	2010	rVB	231262	390797	11.88%	2.017%
22	14.063	2013	2018	2024	rBV	469183	623712	18.95%	3.219%
23	14.539	2095	2099	2106	rVB	30874	50916	1.55%	0.263%
24	14.704	2122	2127	2144	rVB6	58508	228044	6.93%	1.177%
25	15.562	2266	2273	2286	rBV	456776	750222	22.80%	3.872%
26	16.086	2358	2362	2370	rBV6	15045	38387	1.17%	0.198%
27	17.403	2580	2586	2597	rVB3	38603	89528	2.72%	0.462%

Sum of corrected areas: 19377554

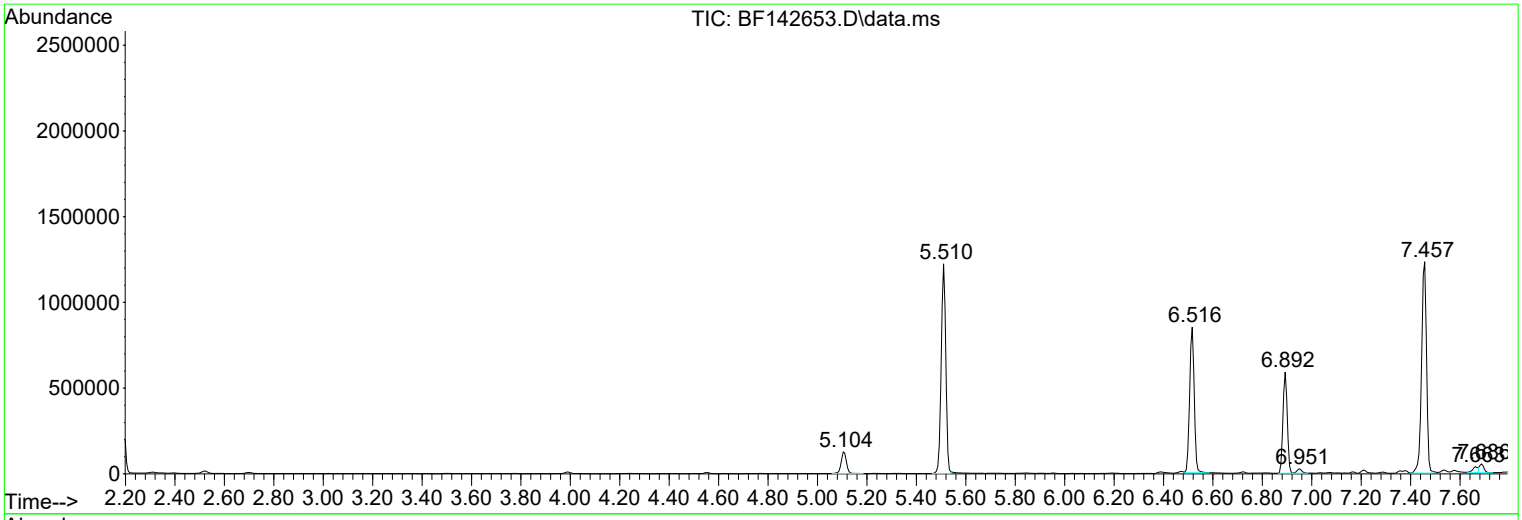
Sample Results: **BF142653.D**

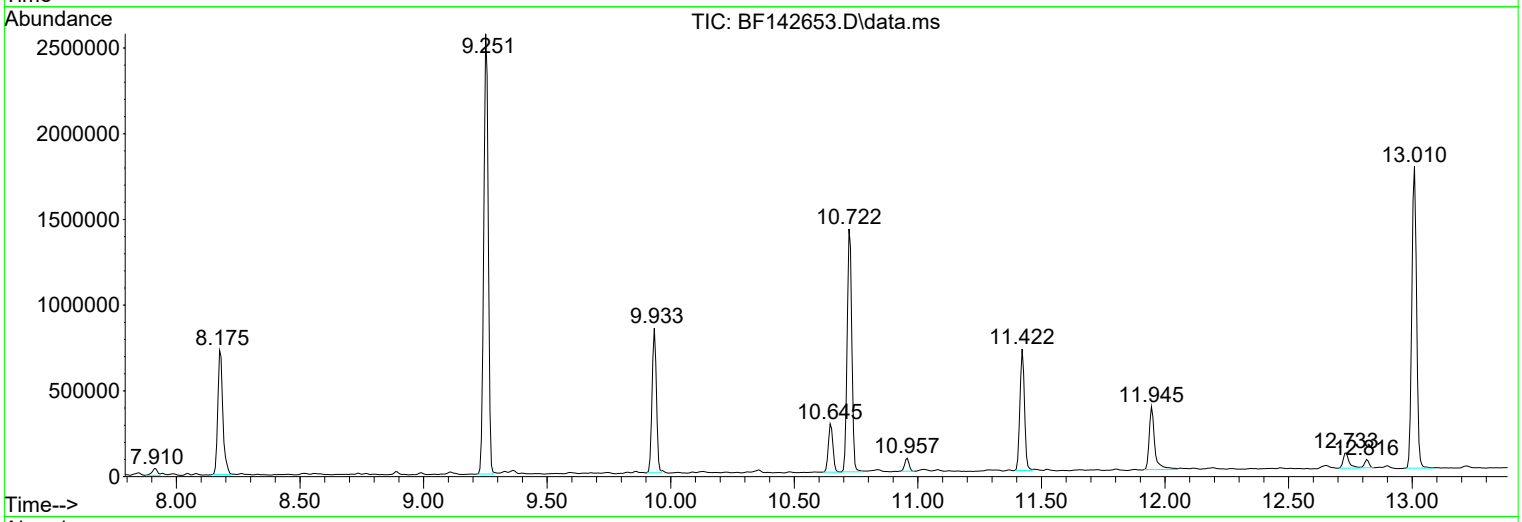
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Data File : BF142653.D
Acq On : 06 Jun 2025 18:31
Operator : RC/JU
Sample : Q2198-05
Misc :
ALS Vial : 15 Sample Multiplier: 1

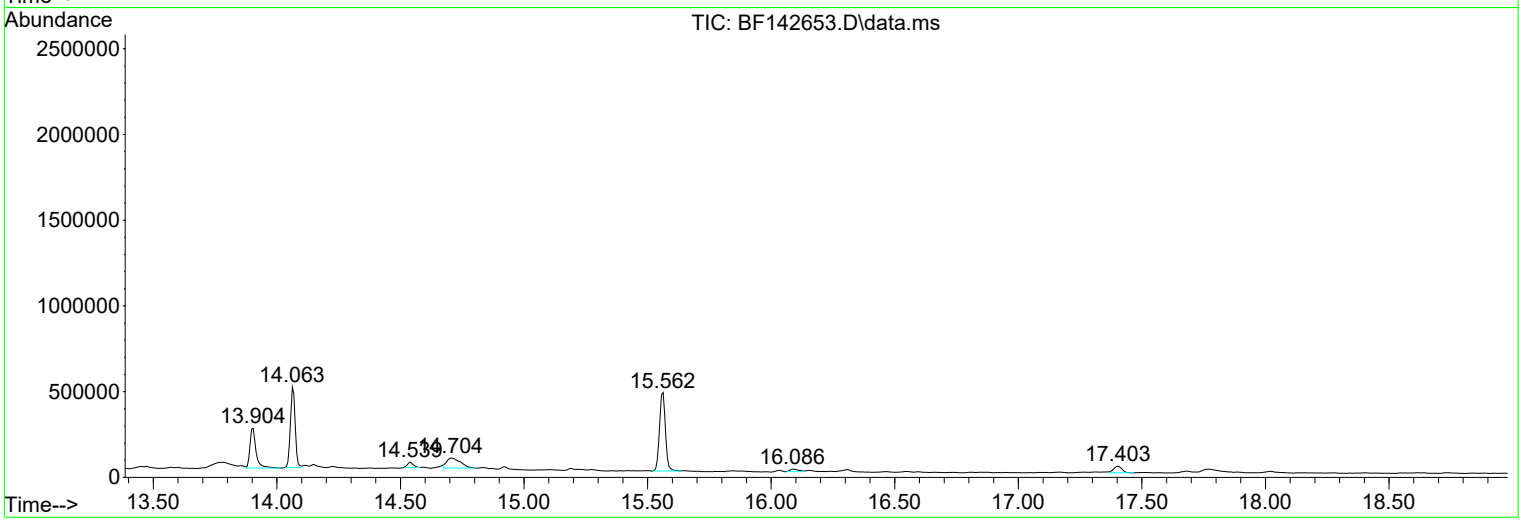
Instrument :
BNA_F
ClientSampleId :
B-202-GW01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P







Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF060625\
Data File : BF142653.D
Acq On : 06 Jun 2025 18:31
Operator : RC/JU
Sample : Q2198-05
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-202-GW01

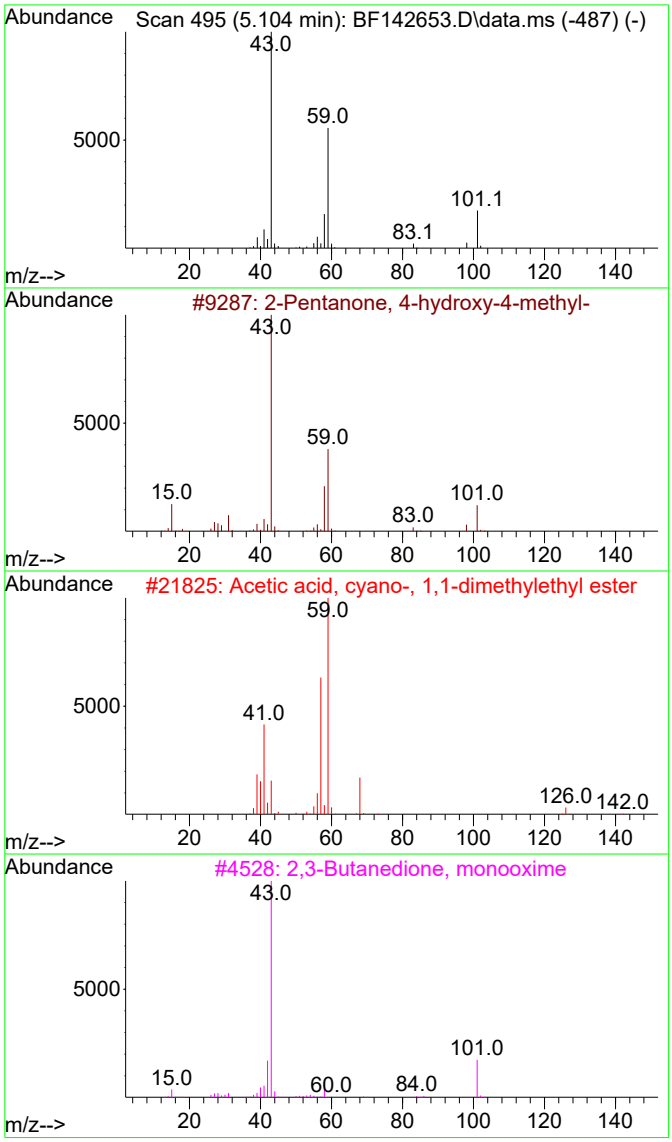
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

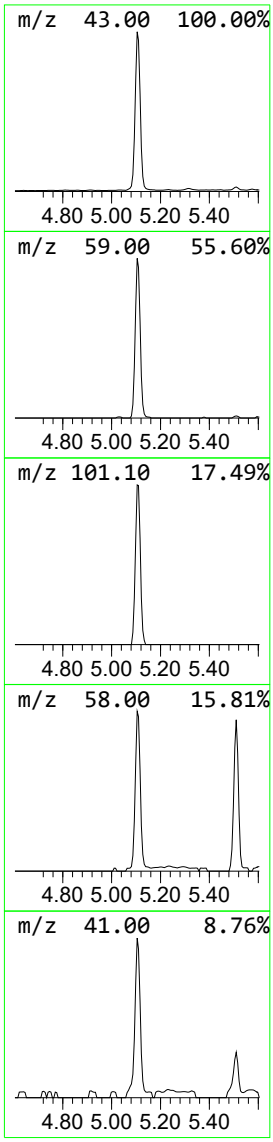
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 1 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.104	5.27 ng	189099	1,4-Dichlorobenzene-d4	6.892

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	59
2	Acetic acid, cyano-, 1,1-dimethy...	141	C7H11NO2	001116-98-9	37
3	2,3-Butanedione, monooxime	101	C4H7NO2	000057-71-6	16
4	1-Propen-2-ol, acetate	100	C5H8O2	000108-22-5	12
5	Morpholine, 4-methyl-	101	C5H11NO	000109-02-4	9





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF060625\
Data File : BF142653.D
Acq On : 06 Jun 2025 18:31
Operator : RC/JU
Sample : Q2198-05
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-202-GW01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

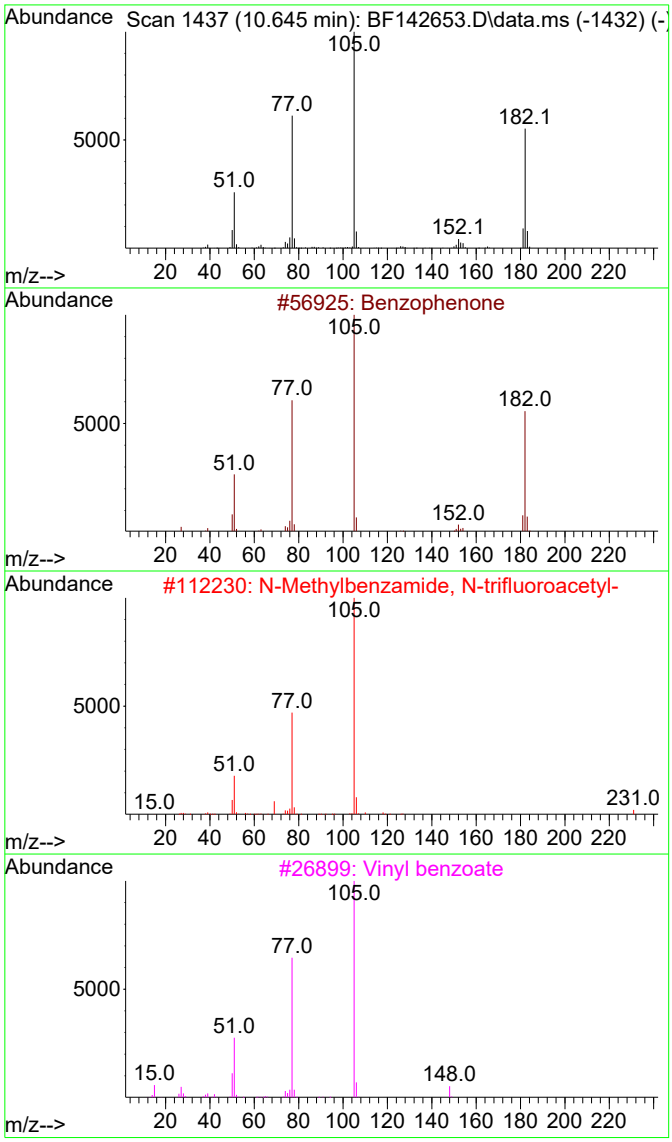
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TIC Integration Parameters: LSCINT.P

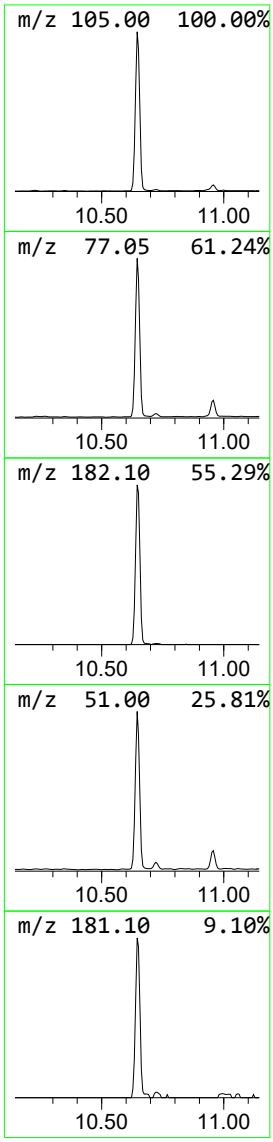
****

Peak Number 2 Benzophenone Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.645	6.89 ng	358707	Acenaphthene-d10	9.933

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzophenone	182	C13H10O	000119-61-9	96
2	N-Methylbenzamide, N-trifluoroac...	231	C10H8F3NO2	1000446-91-5	47
3	Vinyl benzoate	148	C9H8O2	000769-78-8	47
4	Benzenebutanoic acid, .gamma.-oxo-	178	C10H10O3	002051-95-8	47
5	2-(2-Oxo-2-phenyl-ethyl)-malonon...	184	C11H8N2O	1000296-76-9	47





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF060625\
Data File : BF142653.D
Acq On : 06 Jun 2025 18:31
Operator : RC/JU
Sample : Q2198-05
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-202-GW01

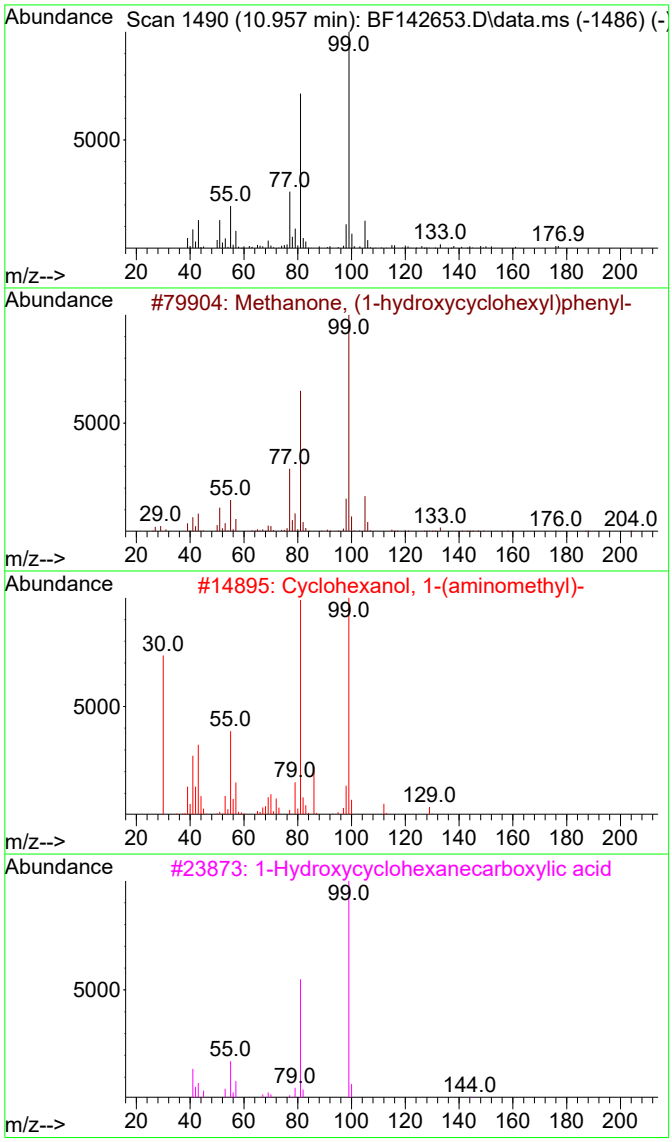
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

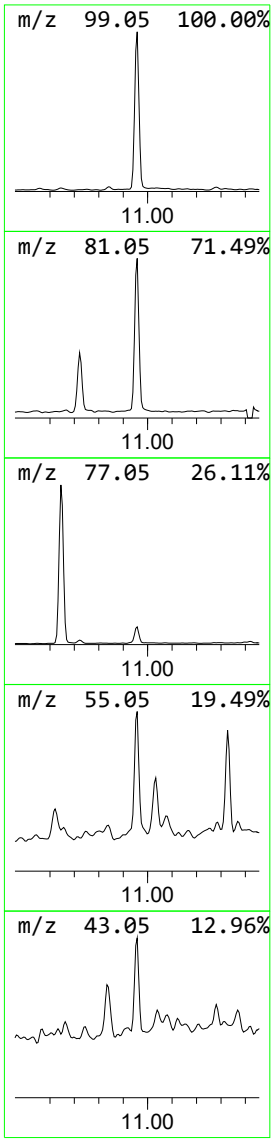
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 3 Methanone, (1-hydroxycycloh... Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.957	2.04 ng	92136	Phenanthrene-d10	11.422

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Methanone, (1-hydroxycyclohexyl)...	204	C13H16O2	000947-19-3	90
2	Cyclohexanol, 1-(aminomethyl)-	129	C7H15NO	004000-72-0	53
3	1-Hydroxycyclohexanecarboxylic acid	144	C7H12O3	001123-28-0	52
4	3,5-Diamino-1,2,4-triazole	99	C2H5N5	001455-77-2	38
5	3-Methylcyclohexyl methylphospho...	194	C8H16FO2P	113548-86-0	38





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF060625\
Data File : BF142653.D
Acq On : 06 Jun 2025 18:31
Operator : RC/JU
Sample : Q2198-05
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-202-GW01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

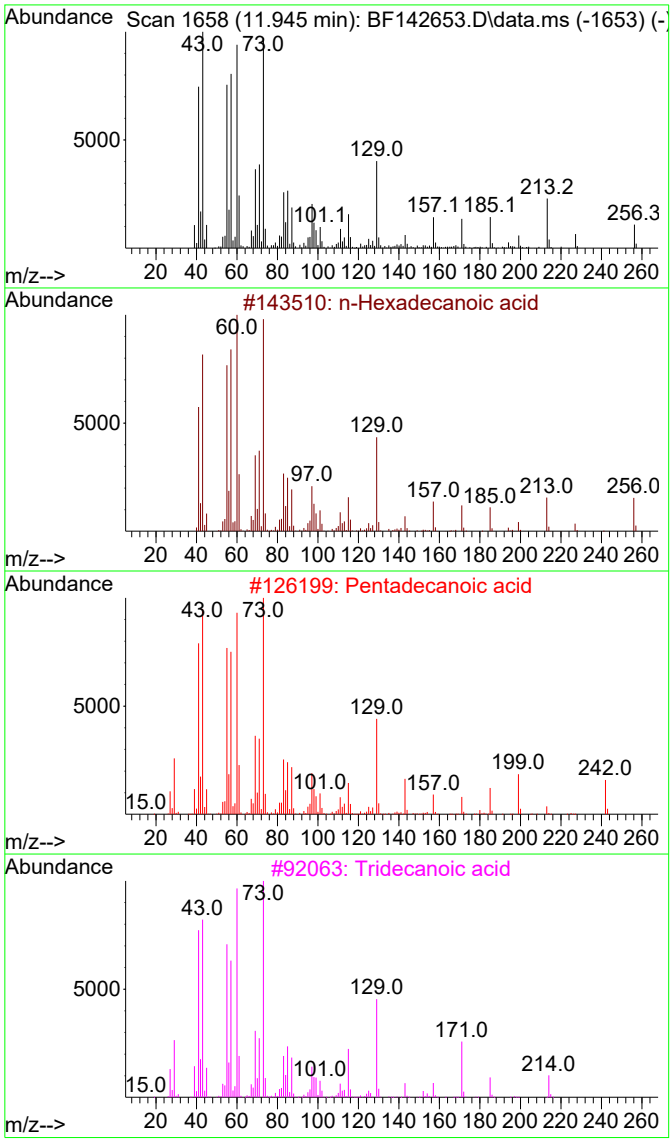
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

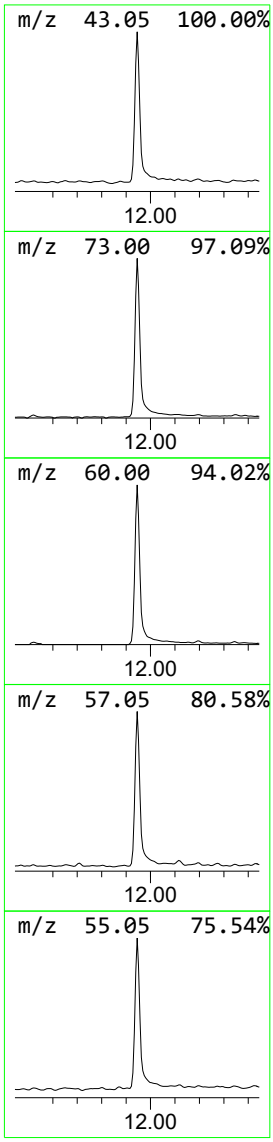
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Peak Number 4 n-Hexadecanoic acid Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.945	12.76 ng	575918	Phenanthrene-d10	11.422

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	99
2	Pentadecanoic acid	242	C15H30O2	001002-84-2	91
3	Tridecanoic acid	214	C13H26O2	000638-53-9	89
4	Tetradecanoic acid	228	C14H28O2	000544-63-8	83
5	n-Decanoic acid	172	C10H20O2	000334-48-5	70





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF060625\
Data File : BF142653.D
Acq On : 06 Jun 2025 18:31
Operator : RC/JU
Sample : Q2198-05
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-202-GW01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

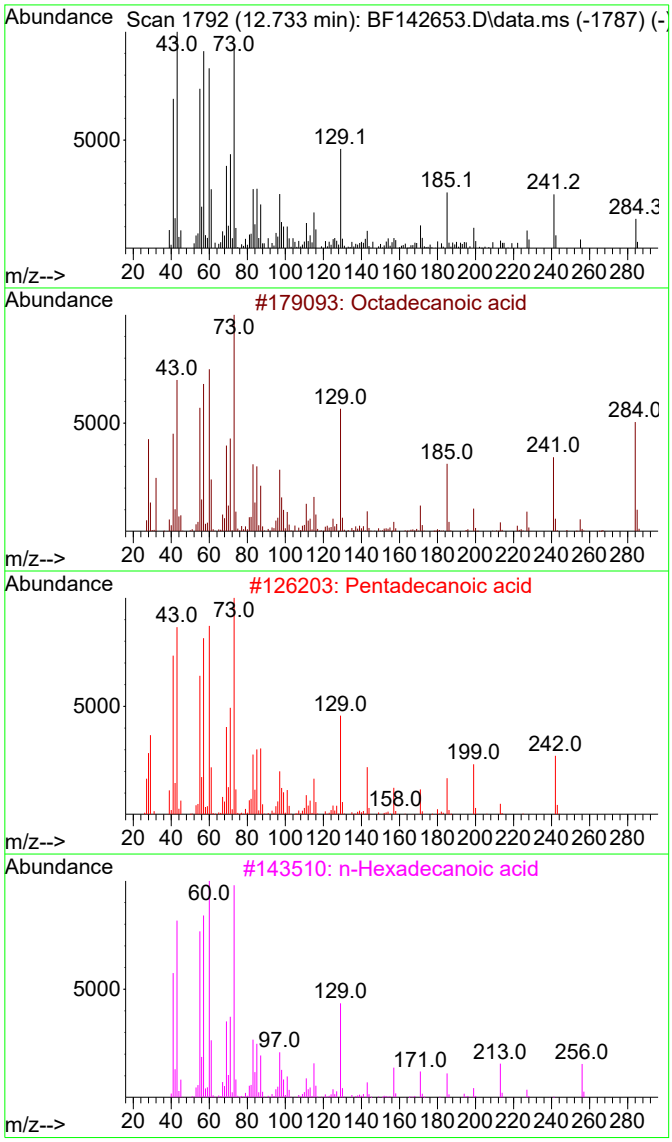
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TIC Integration Parameters: LSCINT.P

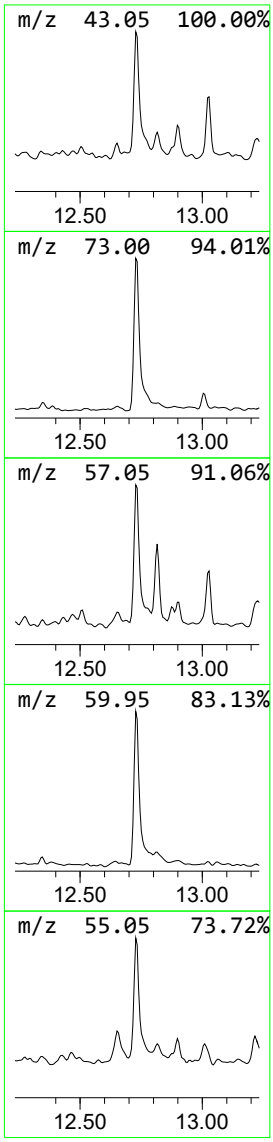
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Peak Number 5 Octadecanoic acid Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.733	3.37 ng	151823	Phenanthrene-d10	11.422

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octadecanoic acid	284	C18H36O2	000057-11-4	99
2	Pentadecanoic acid	242	C15H30O2	001002-84-2	89
3	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	87
4	Tetradecanoic acid	228	C14H28O2	000544-63-8	83
5	Tridecanoic acid	214	C13H26O2	000638-53-9	76





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF060625\
Data File : BF142653.D
Acq On : 06 Jun 2025 18:31
Operator : RC/JU
Sample : Q2198-05
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-202-GW01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

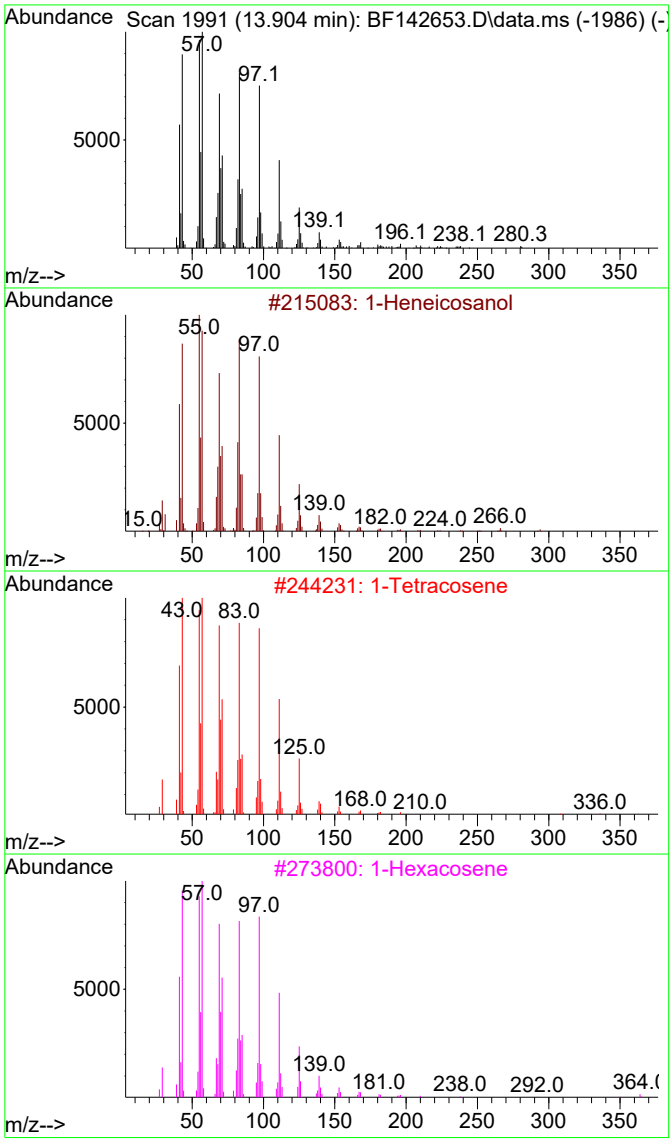
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TIC Integration Parameters: LSCINT.P

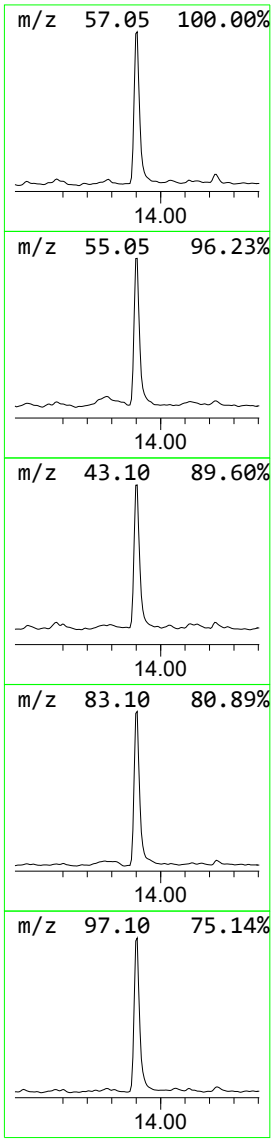
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Peak Number 6 1-Heneicosanol Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.904	12.53 ng	390797	Chrysene-d12	14.063

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Heneicosanol	312	C21H44O	015594-90-8	95
2	1-Tetracosene	336	C24H48	010192-32-2	95
3	1-Hexacosene	364	C26H52	018835-33-1	95
4	Heptafluorobutyric acid, n-tetra...	410	C18H29F7O2	007365-36-8	94
5	Pentafluoropropionic acid, penta...	374	C18H31F5O2	959092-08-1	94





```
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF060625\
Data File : BF142653.D
Acq On    : 06 Jun 2025  18:31
Operator  : RC/JU
Sample    : Q2198-05
Misc      :
ALS Vial  : 15   Sample Multiplier: 1

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title  : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library   : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P
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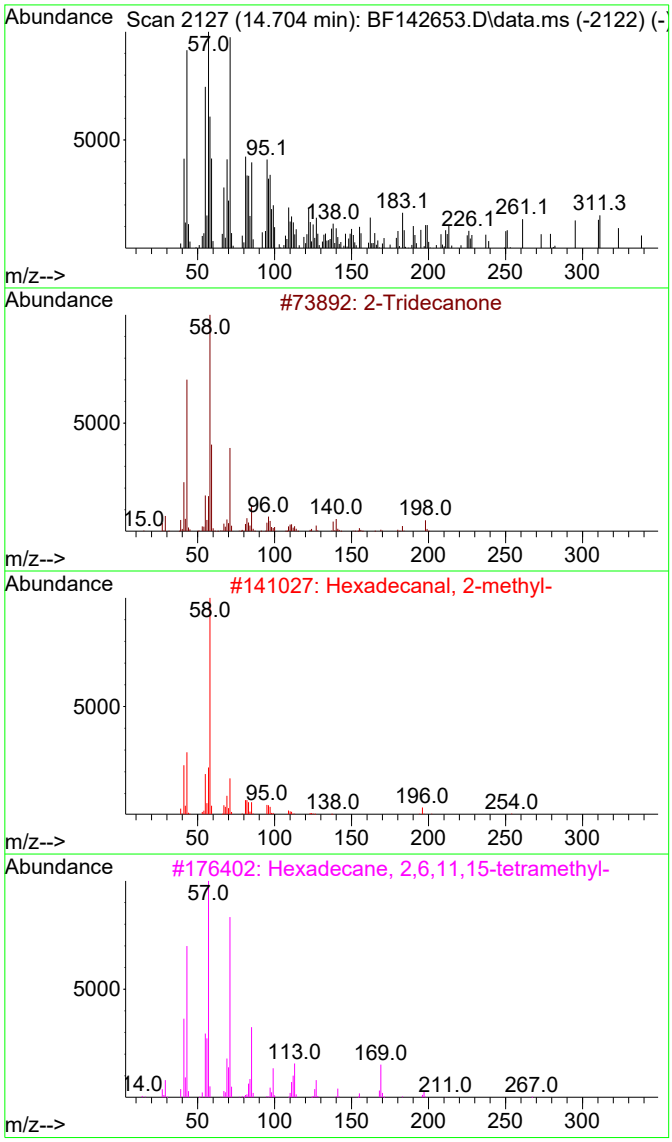
Instrument :
BNA_F
ClientSampleId :
B-202-GW01

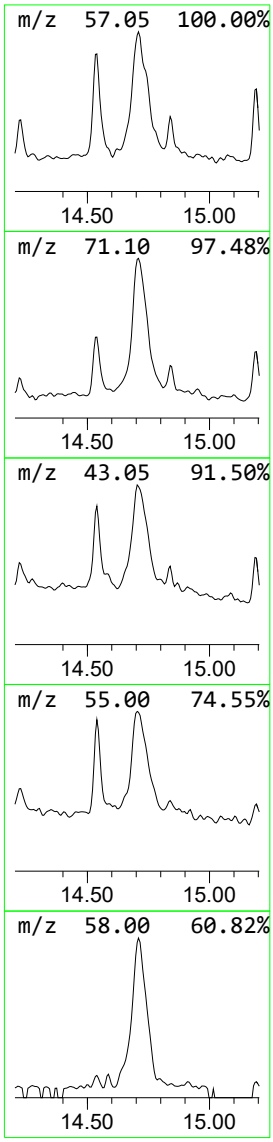
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Peak Number 7 2-Tridecanone Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.704	7.31 ng	228044	Chrysene-d12	14.063

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Tridecanone	198	C13H26O	000593-08-8	70
2	Hexadecanal, 2-methyl-	254	C17H34O	055019-46-0	38
3	Hexadecane, 2,6,11,15-tetramethyl-	282	C20H42	000504-44-9	38
4	Docosane	310	C22H46	000629-97-0	30
5	Citronellol	156	C10H20O	000106-22-9	25





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF060625\
Data File : BF142653.D
Acq On : 06 Jun 2025 18:31
Operator : RC/JU
Sample : Q2198-05
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-202-GW01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

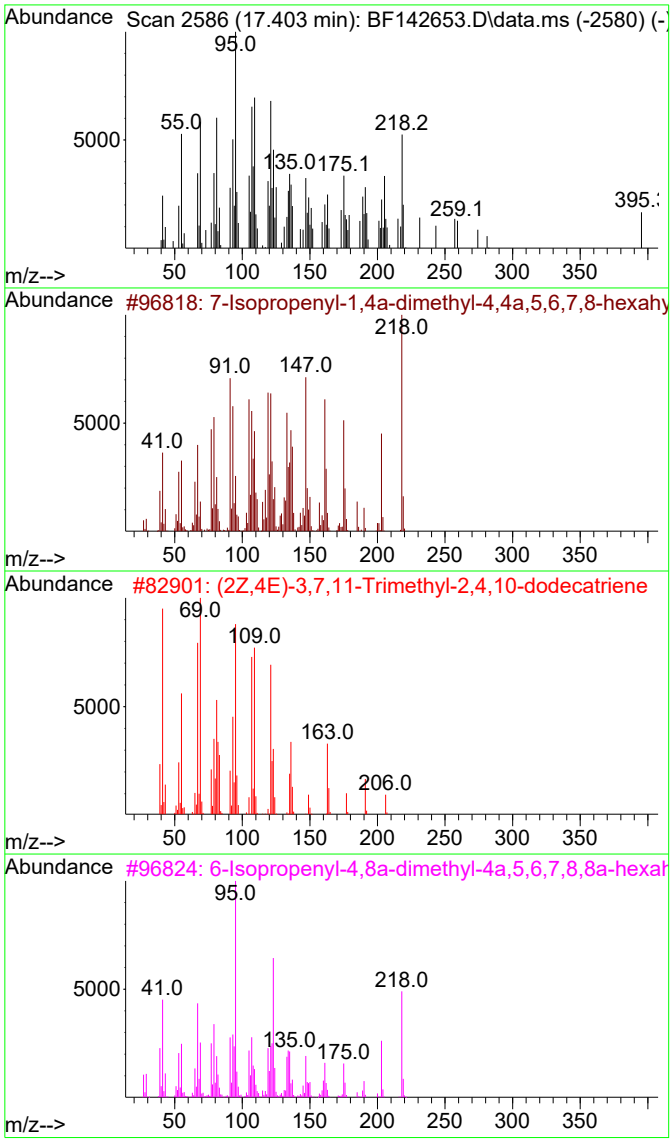
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

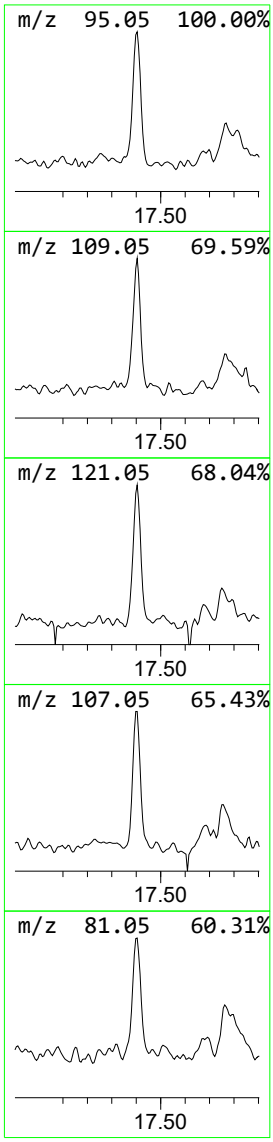
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Peak Number 8 unknown17.404 Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.404	2.39 ng	89528	Perylene-d12	15.562

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	7-Isopropenyl-1,4a-dimethyl-4,4a...	218	C15H22O	000473-08-5	49
2	(2Z,4E)-3,7,11-Trimethyl-2,4,10-...	206	C15H26	172549-29-0	49
3	6-Isopropenyl-4,8a-dimethyl-4a,5...	218	C15H22O	086917-79-5	47
4	Sesquirosefuran	218	C15H22O	039007-93-7	45
5	1,8-Nonadiene, 2,7-dimethyl-5-(1...	192	C14H24	068702-20-5	43





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF060625\
Data File : BF142653.D
Acq On : 06 Jun 2025 18:31
Operator : RC/JU
Sample : Q2198-05
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-202-GW01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
2-Pentanone, 4-...	5.104	5.3	ng	189099	1	6.892	717647	20.0
Benzophenone	10.645	6.9	ng	358707	3	9.933	1041730	20.0
Methanone, (1-h...	10.957	2.0	ng	92136	4	11.422	902365	20.0
n-Hexadecanoic ...	11.945	12.8	ng	575918	4	11.422	902365	20.0
Octadecanoic acid	12.733	3.4	ng	151823	4	11.422	902365	20.0
1-Heneicosanol	13.904	12.5	ng	390797	5	14.063	623712	20.0
2-Tridecanone	14.704	7.3	ng	228044	5	14.063	623712	20.0
unknown17.404	17.404	2.4	ng	89528	6	15.562	750222	20.0

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF060525\
Data File : BF142626.D
Acq On : 05 Jun 2025 11:04
Operator : RC/JU
Sample : PB168285BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB168285BL

Quant Time: Jun 05 11:35:10 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 20 16:26:47 2025
Response via : Initial Calibration

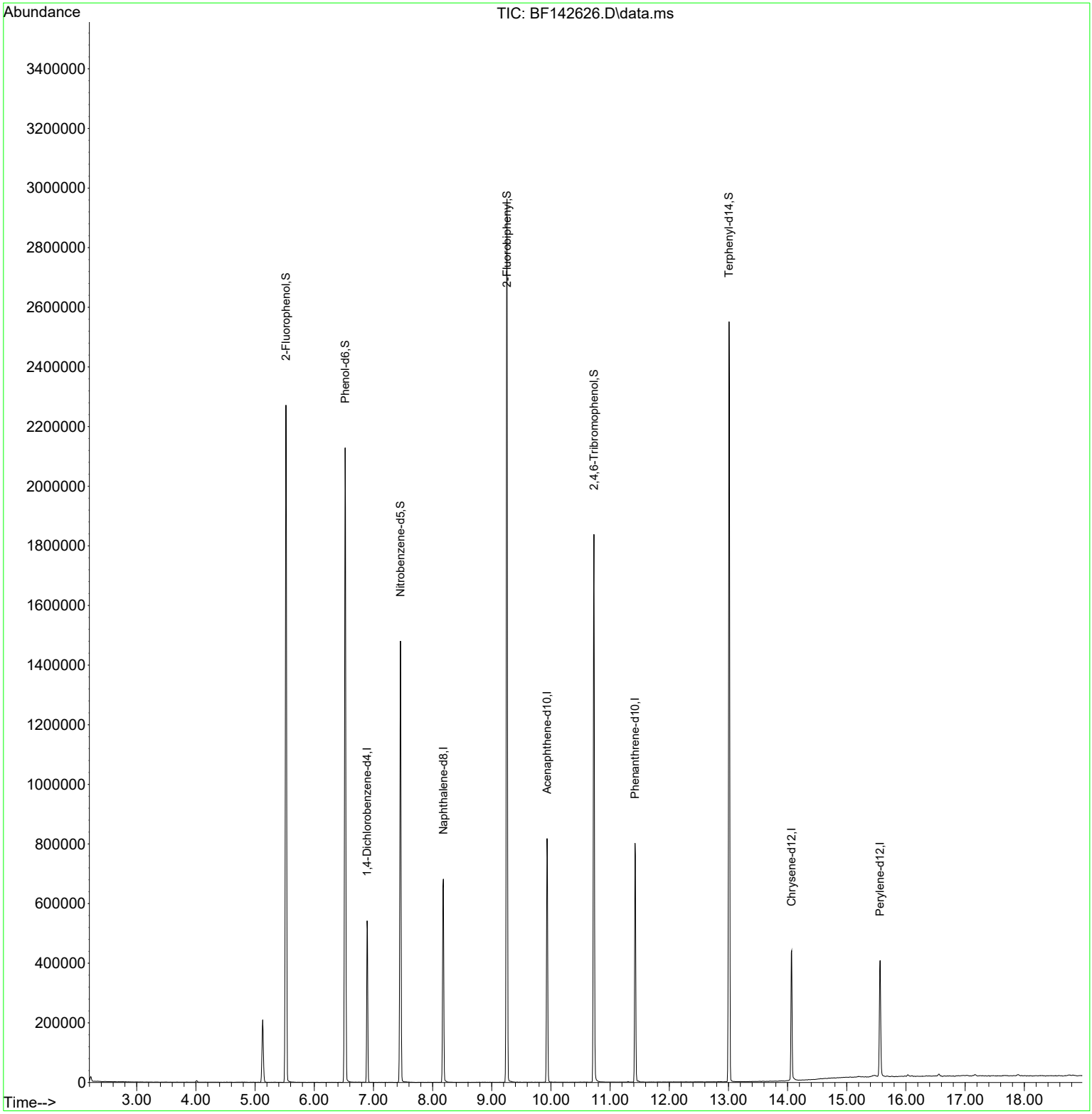
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.892	152	122182	20.000	ng	-0.01
21) Naphthalene-d8	8.181	136	466755	20.000	ng	0.00
39) Acenaphthene-d10	9.933	164	253840	20.000	ng	-0.01
64) Phenanthrene-d10	11.421	188	433273	20.000	ng	-0.01
76) Chrysene-d12	14.068	240	225137	20.000	ng	0.00
86) Perylene-d12	15.562	264	234045	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.522	112	907955	125.197	ng	0.00
7) Phenol-d6	6.522	99	1081644	123.901	ng	-0.01
23) Nitrobenzene-d5	7.457	82	672397	78.553	ng	-0.02
42) 2,4,6-Tribromophenol	10.727	330	344627	122.325	ng	-0.01
45) 2-Fluorobiphenyl	9.257	172	1422364	75.190	ng	-0.01
79) Terphenyl-d14	13.010	244	1286910	78.113	ng	0.00
Target Compounds						Qvalue

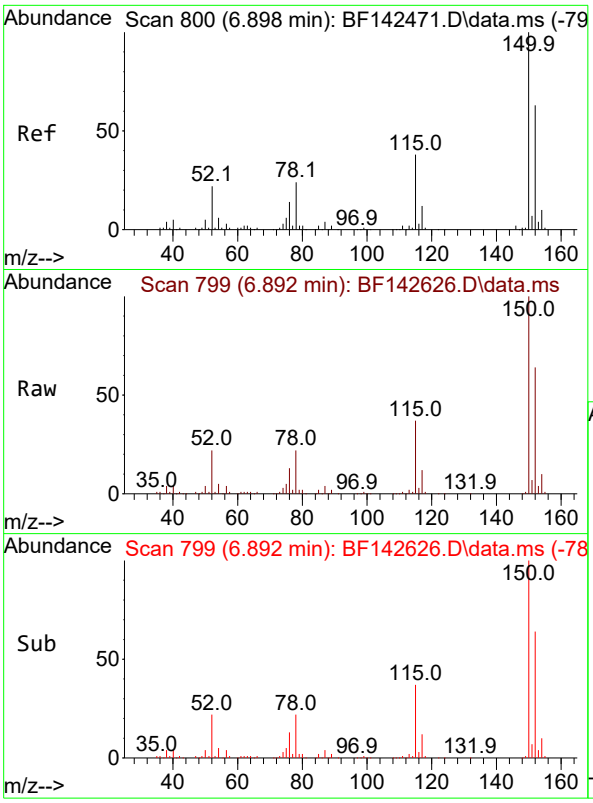
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF060525\
Data File : BF142626.D
Acq On : 05 Jun 2025 11:04
Operator : RC/JU
Sample : PB168285BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB168285BL

Quant Time: Jun 05 11:35:10 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 20 16:26:47 2025
Response via : Initial Calibration



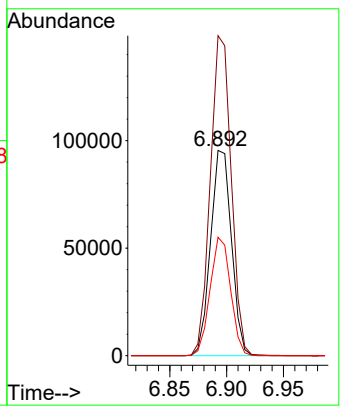


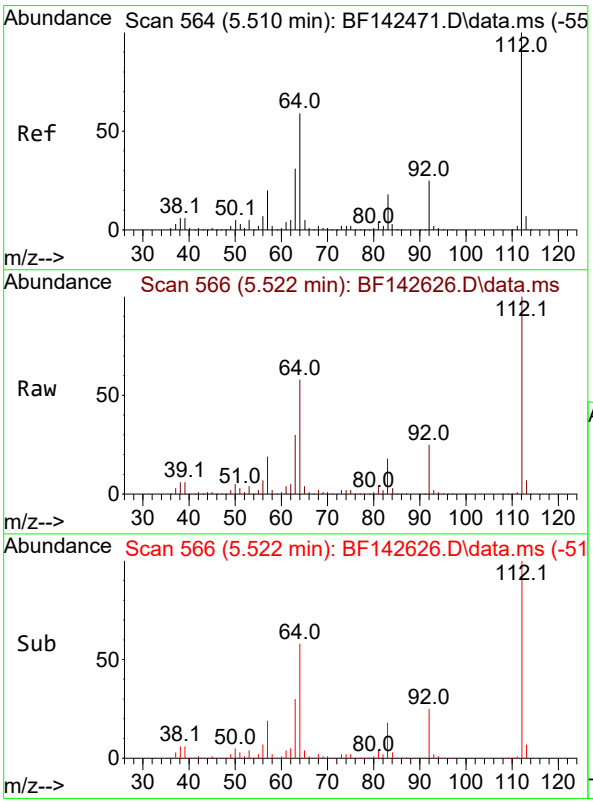
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.892 min Scan# 7
Delta R.T. -0.012 min
Lab File: BF142626.D
Acq: 05 Jun 2025 11:04

Instrument :
BNA_F
ClientSampleId :
PB168285BL

Tgt Ion:152 Resp: 122182

Ion	Ratio	Lower	Upper
152	100		
150	155.9	128.2	192.4
115	57.7	48.3	72.5

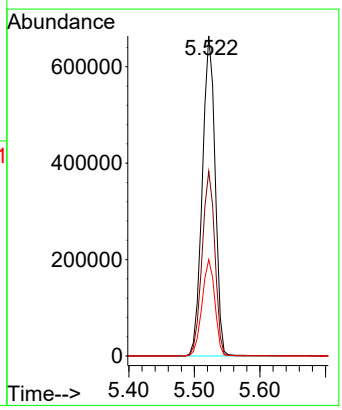


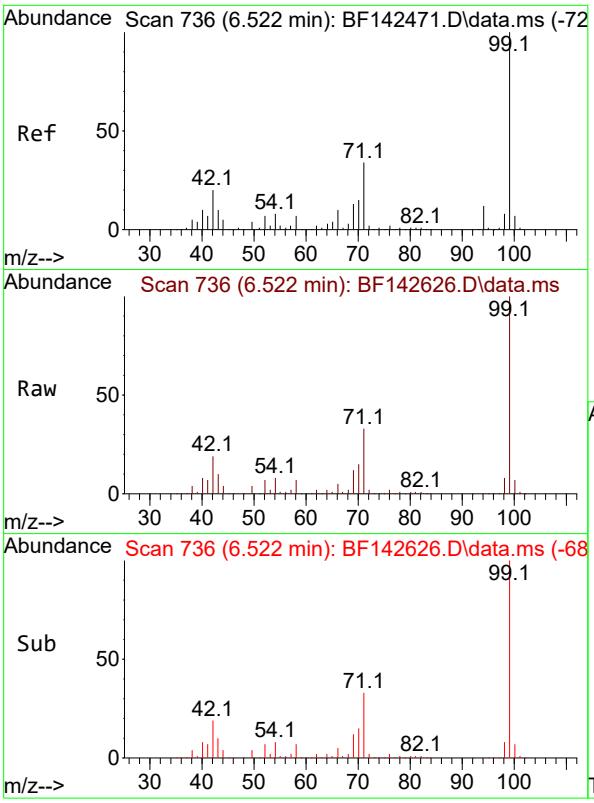


#5
2-Fluorophenol
Concen: 125.197 ng
RT: 5.522 min Scan# 566
Delta R.T. 0.006 min
Lab File: BF142626.D
Acq: 05 Jun 2025 11:04

Tgt Ion:112 Resp: 907955

Ion	Ratio	Lower	Upper
112	100		
64	57.7	47.5	71.3
63	30.1	24.9	37.3



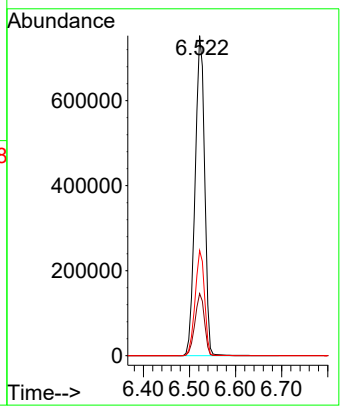


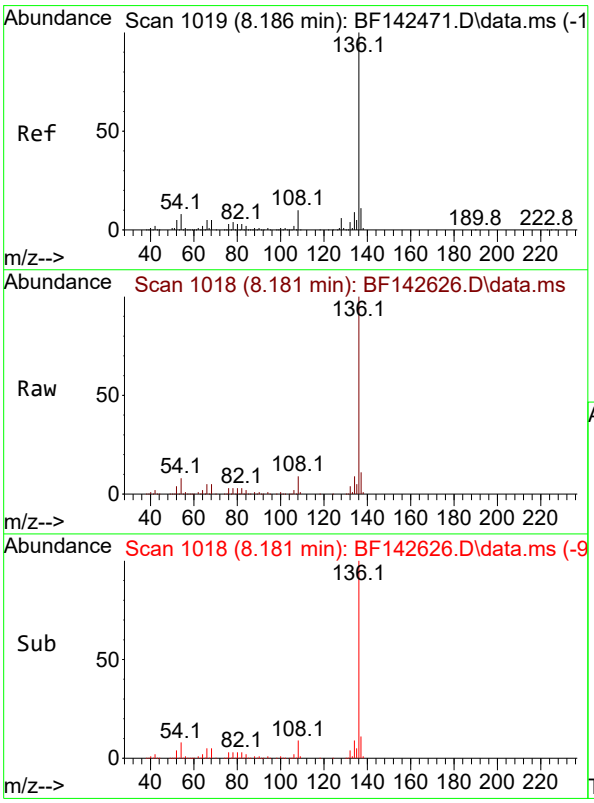
#7
Phenol-d6
Concen: 123.901 ng
RT: 6.522 min Scan# 7
Delta R.T. -0.012 min
Lab File: BF142626.D
Acq: 05 Jun 2025 11:04

Instrument :
BNA_F
ClientSampleId :
PB168285BL

Tgt Ion: 99 Resp: 1081644

Ion	Ratio	Lower	Upper
99	100		
42	19.4	16.2	24.2
71	32.9	27.3	40.9

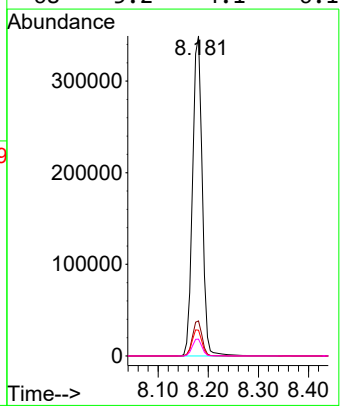


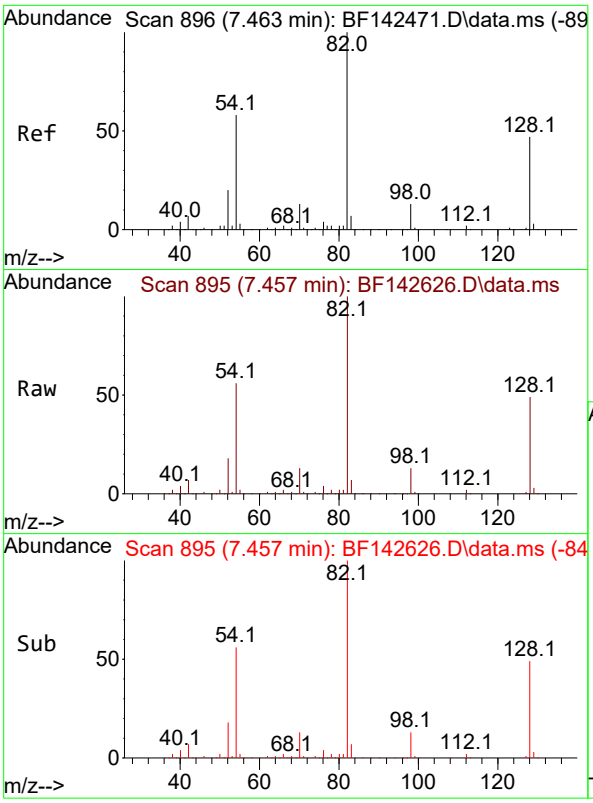


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.181 min Scan# 1018
Delta R.T. -0.006 min
Lab File: BF142626.D
Acq: 05 Jun 2025 11:04

Tgt Ion:136 Resp: 466755

Ion	Ratio	Lower	Upper
136	100		
137	11.0	8.6	13.0
54	8.1	6.6	10.0
68	5.2	4.1	6.1



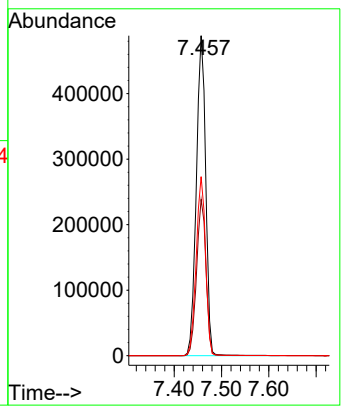


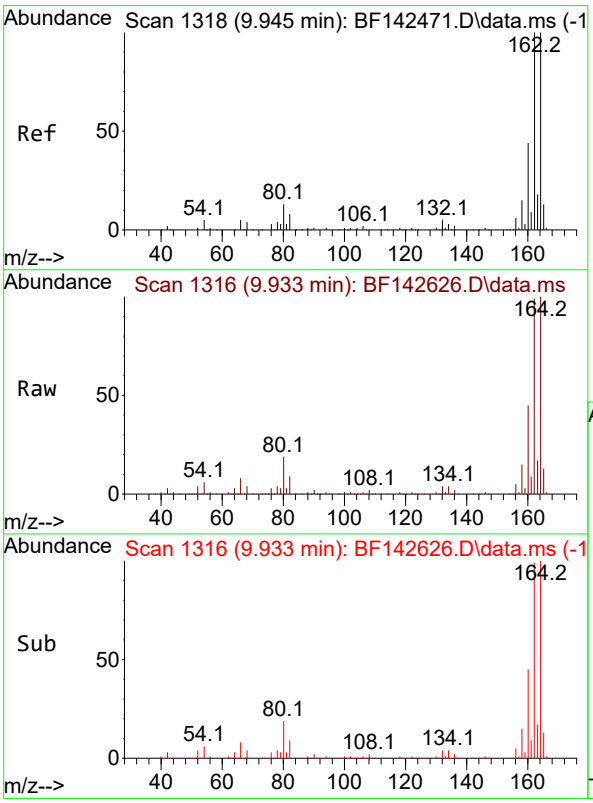
#23
Nitrobenzene-d5
Concen: 78.553 ng
RT: 7.457 min Scan# 8
Delta R.T. -0.018 min
Lab File: BF142626.D
Acq: 05 Jun 2025 11:04

Instrument :
BNA_F
ClientSampleId :
PB168285BL

Tgt Ion: 82 Resp: 672397

Ion	Ratio	Lower	Upper
82	100		
128	48.9	37.4	56.2
54	55.9	46.6	70.0

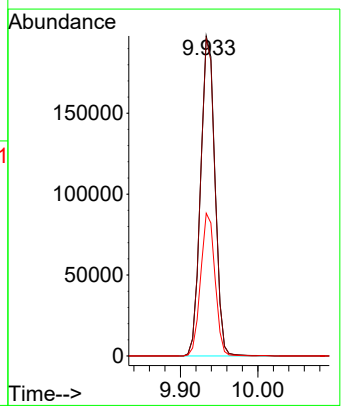


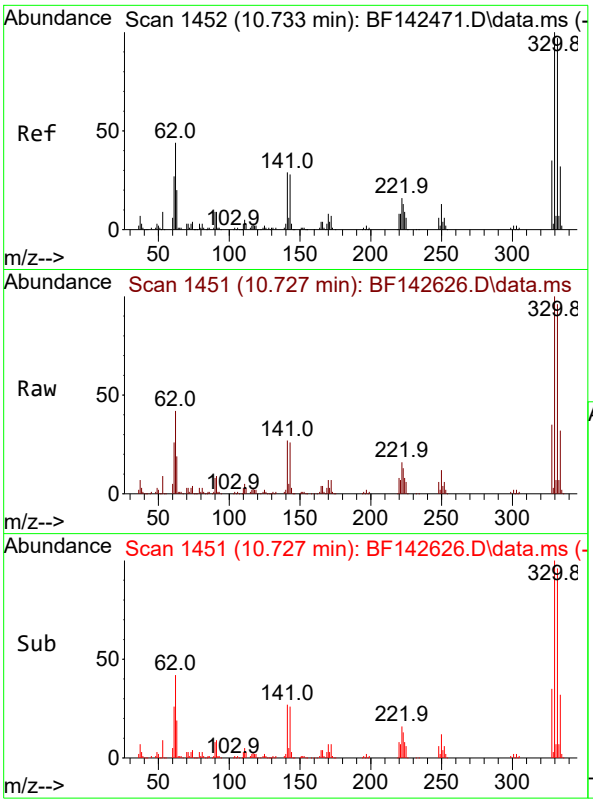


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.933 min Scan# 1316
Delta R.T. -0.012 min
Lab File: BF142626.D
Acq: 05 Jun 2025 11:04

Tgt Ion:164 Resp: 253840

Ion	Ratio	Lower	Upper
164	100		
162	99.2	80.2	120.4
160	44.6	35.6	53.4



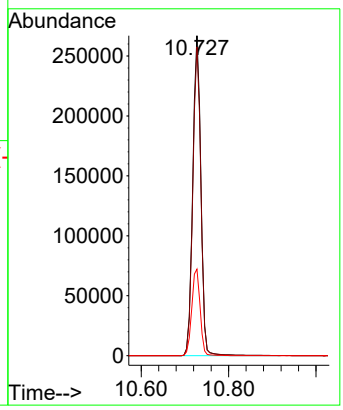


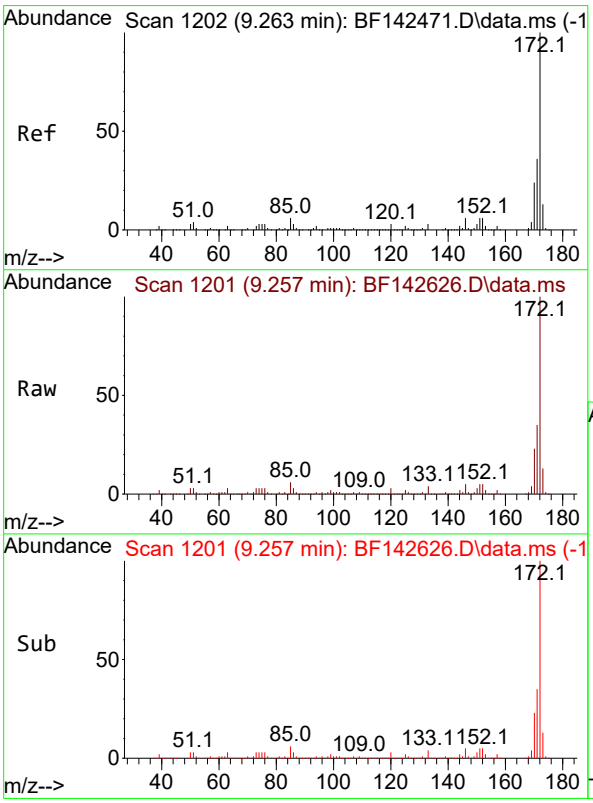
#42
2,4,6-Tribromophenol
Concen: 122.325 ng
RT: 10.727 min Scan# 14
Delta R.T. -0.012 min
Lab File: BF142626.D
Acq: 05 Jun 2025 11:04

Instrument :
BNA_F
ClientSampleId :
PB168285BL

Tgt Ion:330 Resp: 344627

Ion	Ratio	Lower	Upper
330	100		
332	96.1	77.6	116.4
141	27.9	24.6	36.8

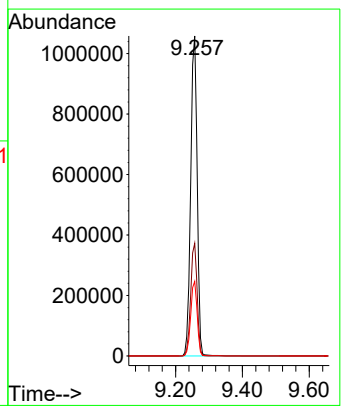


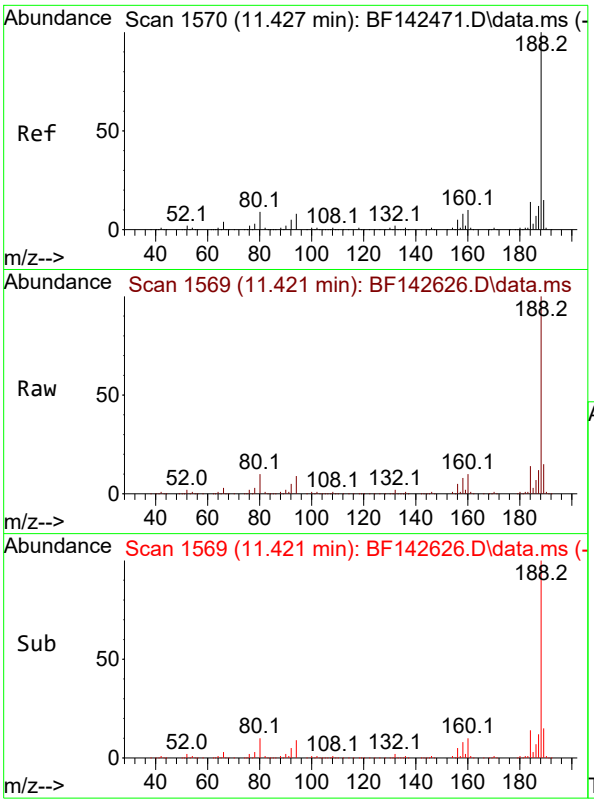


#45
2-Fluorobiphenyl
Concen: 75.190 ng
RT: 9.257 min Scan# 1201
Delta R.T. -0.012 min
Lab File: BF142626.D
Acq: 05 Jun 2025 11:04

Tgt Ion:172 Resp: 1422364

Ion	Ratio	Lower	Upper
172	100		
171	35.2	28.6	42.8
170	23.3	18.9	28.3



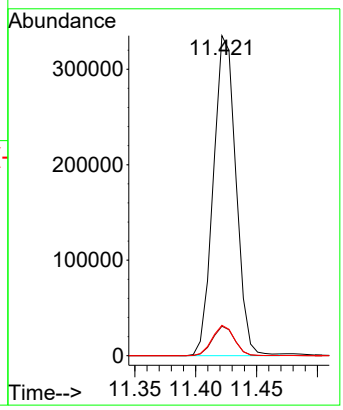


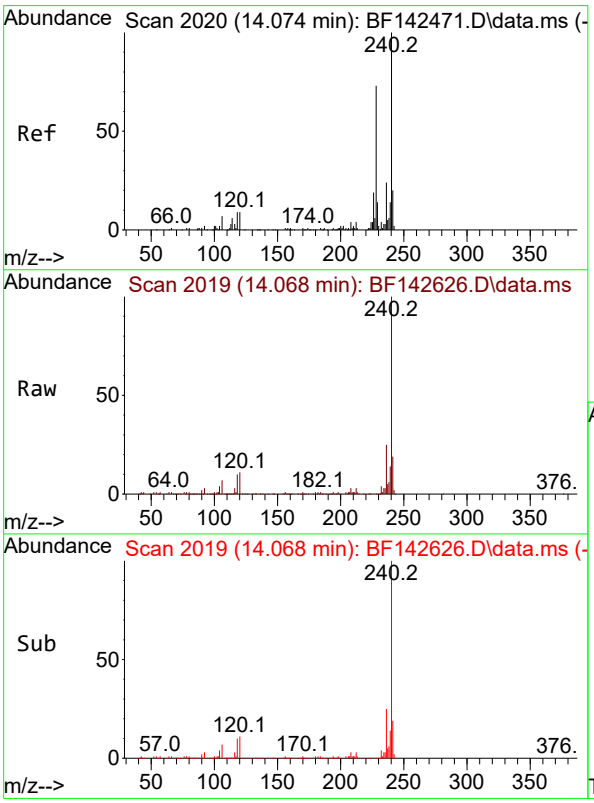
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.421 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF142626.D
Acq: 05 Jun 2025 11:04

Instrument :
BNA_F
ClientSampleId :
PB168285BL

Tgt Ion:188 Resp: 433273

Ion	Ratio	Lower	Upper
188	100		
94	9.2	6.6	10.0
80	9.5	7.4	11.0

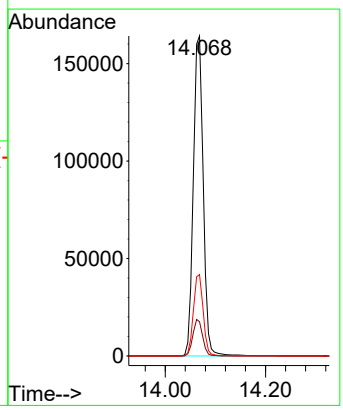


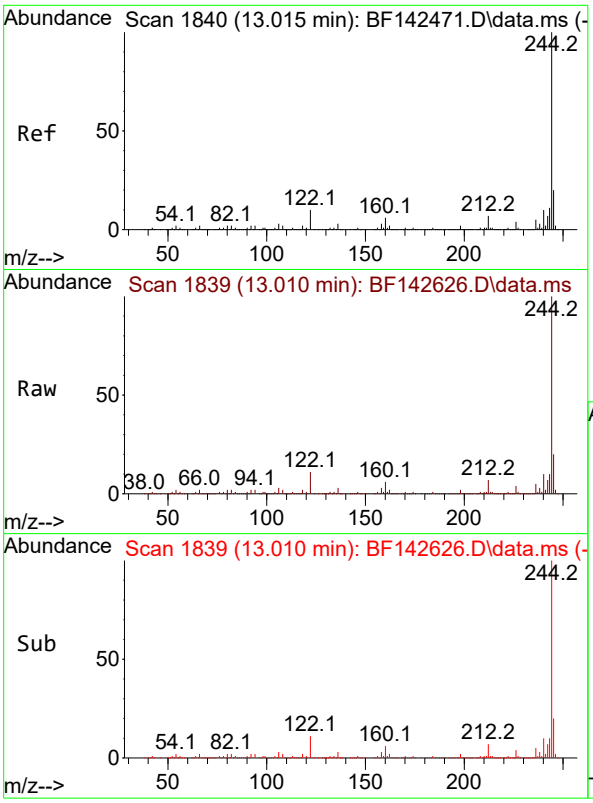


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.068 min Scan# 2019
Delta R.T. -0.006 min
Lab File: BF142626.D
Acq: 05 Jun 2025 11:04

Tgt Ion:240 Resp: 225137

Ion	Ratio	Lower	Upper
240	100		
120	10.7	7.5	11.3
236	25.5	19.6	29.4



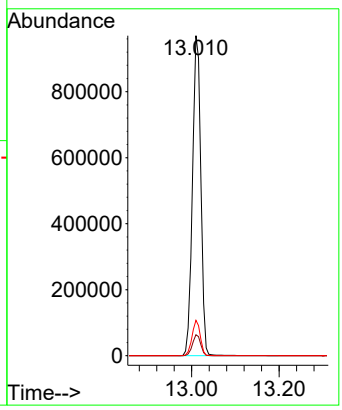


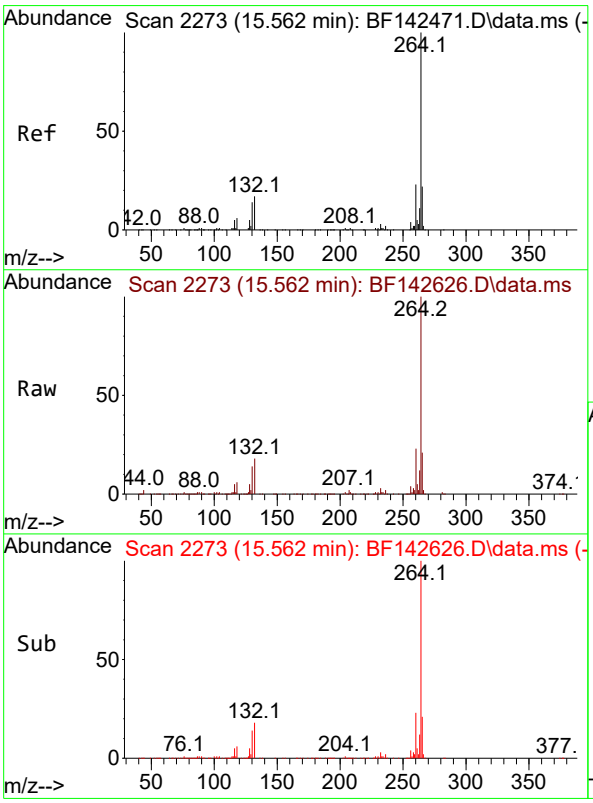
#79
Terphenyl-d14
Concen: 78.113 ng
RT: 13.010 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF142626.D
Acq: 05 Jun 2025 11:04

Instrument :
BNA_F
ClientSampleId :
PB168285BL

Tgt Ion:244 Resp: 1286910

Ion	Ratio	Lower	Upper
244	100		
212	6.6	5.3	7.9
122	11.0	8.2	12.2

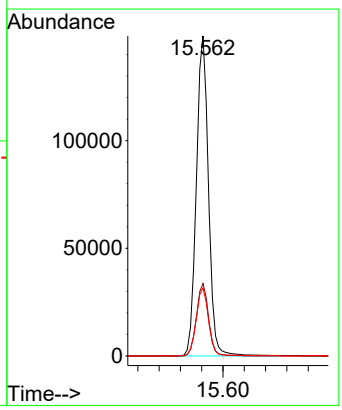




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.562 min Scan# 2273
Delta R.T. -0.006 min
Lab File: BF142626.D
Acq: 05 Jun 2025 11:04

Tgt Ion:264 Resp: 234045

Ion	Ratio	Lower	Upper
264	100		
260	22.7	18.6	28.0
265	21.2	17.7	26.5



Sample Results: **BF142626.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF060525\
Data File : BF142626.D
Acq On : 05 Jun 2025 11:04
Operator : RC/JU
Sample : PB168285BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB168285BL

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF142626.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	5.128	492	499	509	rBV	209595	338476	8.53%	1.465%
2	5.522	559	566	571	rBV	2271570	3086845	77.83%	13.358%
3	6.522	729	736	741	rBV	2128452	3043429	76.74%	13.170%
4	6.892	794	799	805	rBV	541774	681009	17.17%	2.947%
5	7.457	888	895	900	rBV	1480052	2025064	51.06%	8.764%
6	8.181	1012	1018	1033	rBV	681820	907366	22.88%	3.927%
7	9.257	1194	1201	1206	rBV	2963129	3965900	100.00%	17.163%
8	9.933	1311	1316	1327	rBV	817428	1042216	26.28%	4.510%
9	10.727	1445	1451	1471	rBV	1837266	2414649	60.89%	10.449%
10	11.421	1564	1569	1577	rBV	800851	1030686	25.99%	4.460%
11	13.010	1833	1839	1844	rBV	2549333	3343061	84.30%	14.467%
12	14.068	2011	2019	2033	rBV	434578	611688	15.42%	2.647%
13	15.562	2267	2273	2288	rVB	389081	617537	15.57%	2.672%

Sum of corrected areas: 23107926

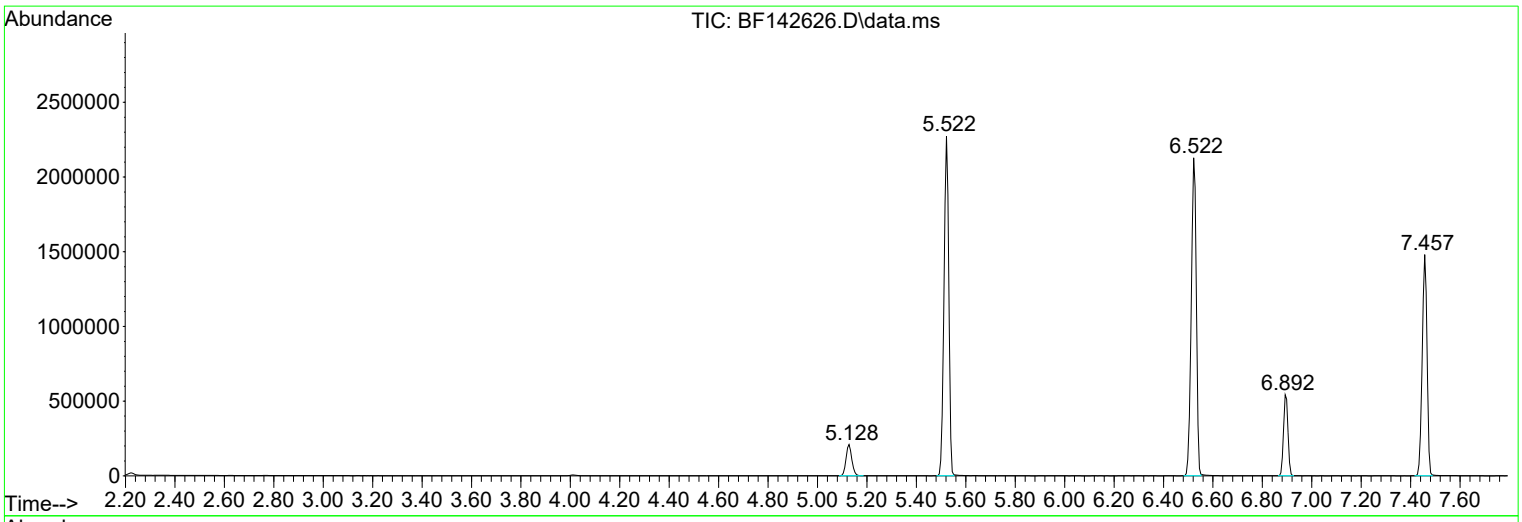
Sample Results: **BF142626.D**

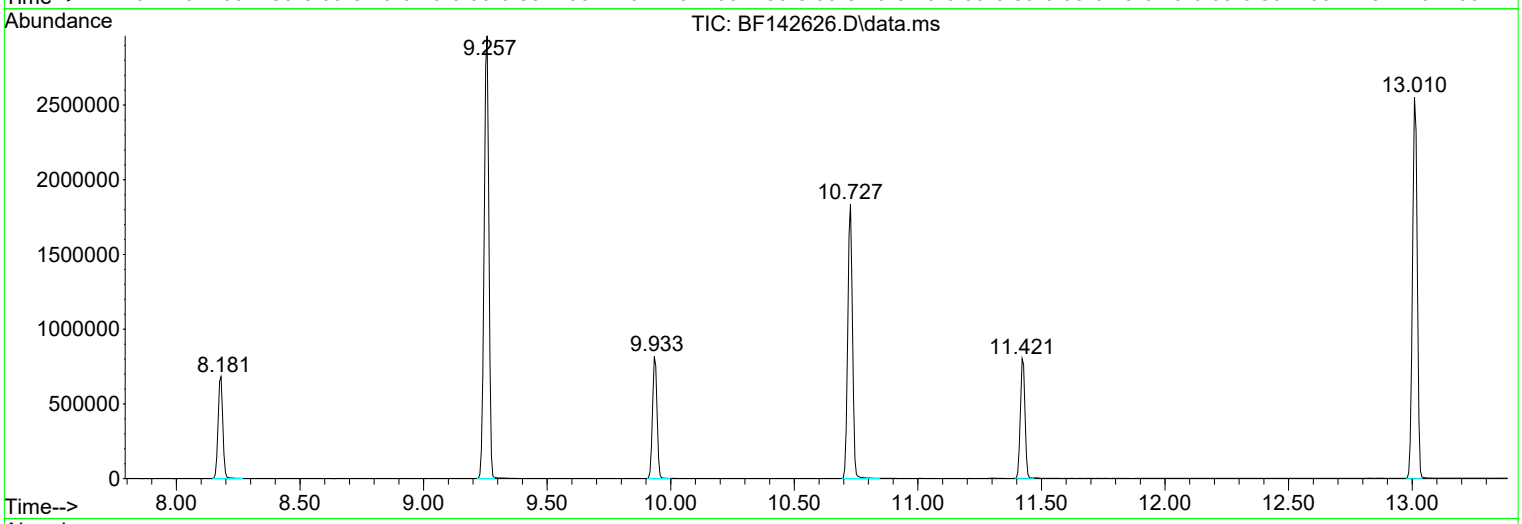
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF060525\
Data File : BF142626.D
Acq On : 05 Jun 2025 11:04
Operator : RC/JU
Sample : PB168285BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

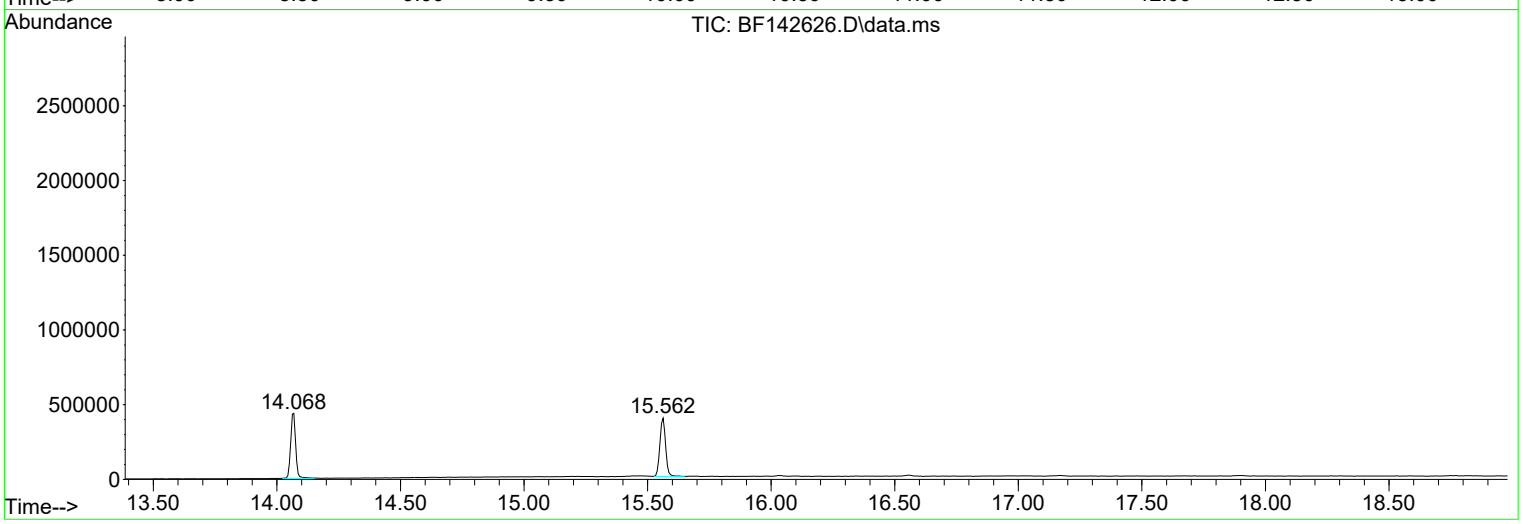
Instrument :
BNA_F
ClientSampleId :
PB168285BL

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P







Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF060525\
Data File : BF142626.D
Acq On : 05 Jun 2025 11:04
Operator : RC/JU
Sample : PB168285BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB168285BL

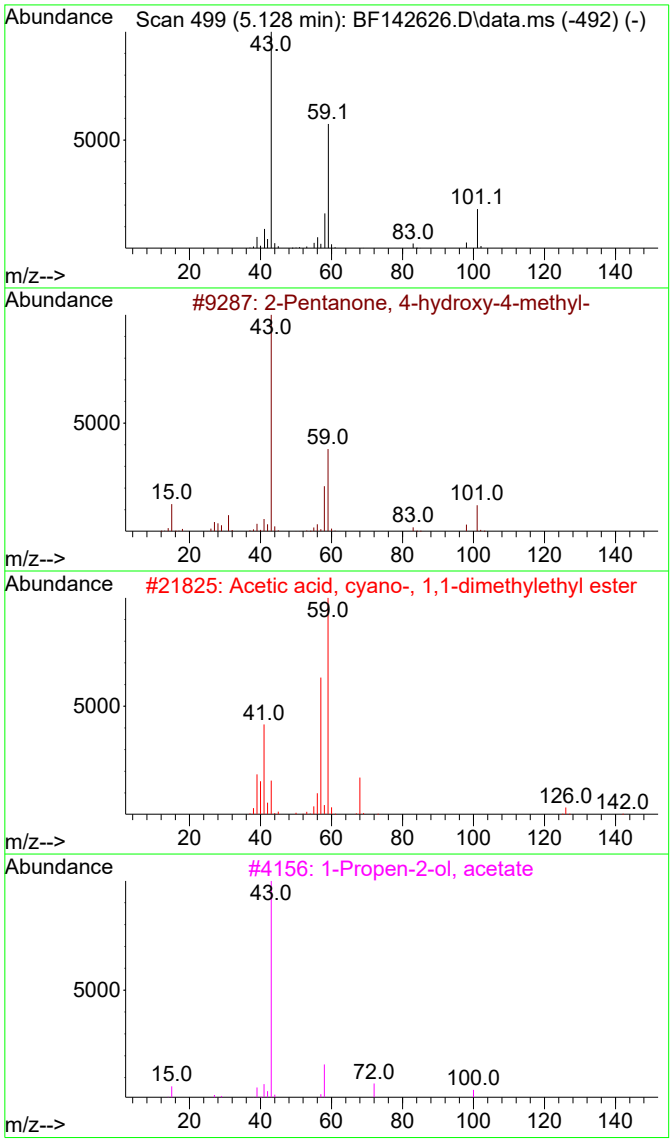
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

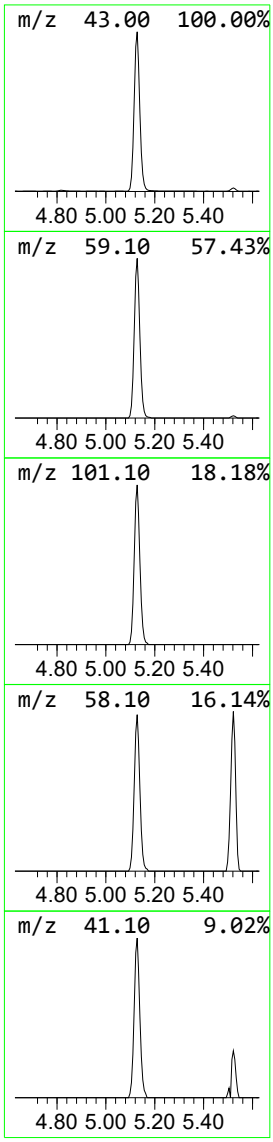
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 1 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.128	9.94 ng	338476	1,4-Dichlorobenzene-d4	6.892

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	59
2	Acetic acid, cyano-, 1,1-dimethy...	141	C7H11NO2	001116-98-9	25
3	1-Propen-2-ol, acetate	100	C5H8O2	000108-22-5	12
4	Morpholine, 4-methyl-	101	C5H11NO	000109-02-4	9
5	2,3-Butanedione, monooxime	101	C4H7NO2	000057-71-6	9





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF060525\
Data File : BF142626.D
Acq On : 05 Jun 2025 11:04
Operator : RC/JU
Sample : PB168285BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB168285BL

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
2-Pentanone, 4-...	5.128	9.9	ng	338476	1	6.892	681009	20.0

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP061125\
Data File : BP024906.D
Acq On : 11 Jun 2025 10:50
Operator : RC/JU
Sample : PB168300BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
PB168300BL

Quant Time: Jun 11 11:13:07 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP060625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 06 16:20:27 2025
Response via : Initial Calibration

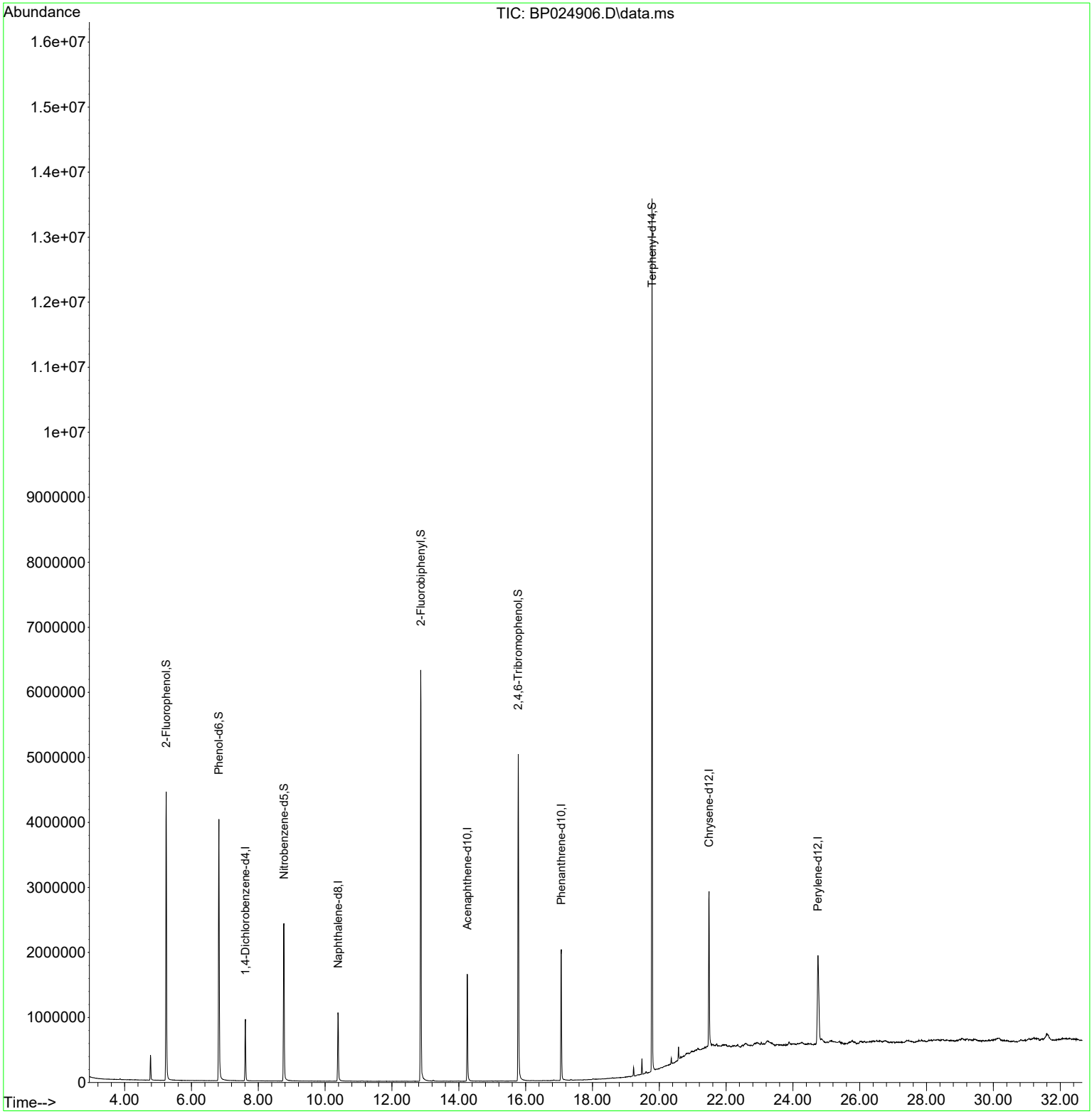
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.614	152	253698	20.000	ng	0.00
21) Naphthalene-d8	10.384	136	948256	20.000	ng	0.00
39) Acenaphthene-d10	14.254	164	596004	20.000	ng	0.00
64) Phenanthrene-d10	17.066	188	1216143	20.000	ng	0.00
76) Chrysene-d12	21.489	240	1397582	20.000	ng	0.00
86) Perylene-d12	24.748	264	1605439	20.000	ng	0.03
System Monitoring Compounds						
5) 2-Fluorophenol	5.243	112	2039524	134.190	ng	0.00
7) Phenol-d6	6.819	99	2520708	125.349	ng	0.00
23) Nitrobenzene-d5	8.766	82	1544165	79.130	ng	0.00
42) 2,4,6-Tribromophenol	15.778	330	1154951	140.163	ng	0.00
45) 2-Fluorobiphenyl	12.860	172	3390280	76.629	ng	0.00
79) Terphenyl-d14	19.783	244	6166701	79.081	ng	-0.01
Target Compounds						Qvalue

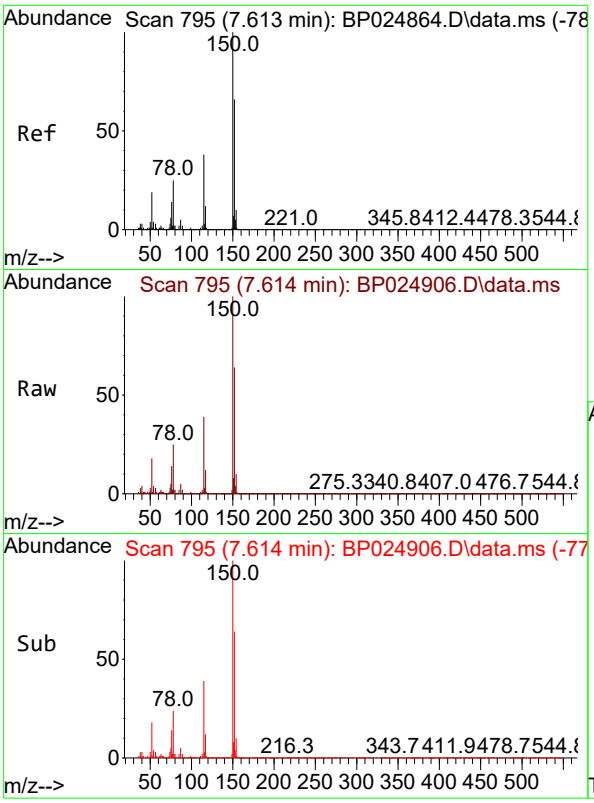
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP061125\
Data File : BP024906.D
Acq On : 11 Jun 2025 10:50
Operator : RC/JU
Sample : PB168300BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
PB168300BL

Quant Time: Jun 11 11:13:07 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP060625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 06 16:20:27 2025
Response via : Initial Calibration



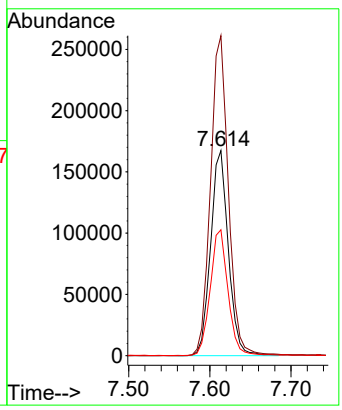


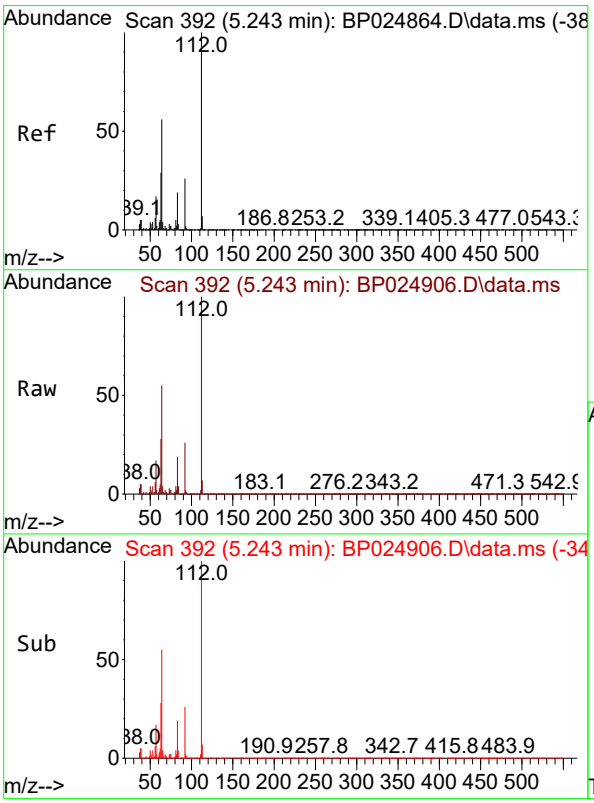
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.614 min Scan# 7
Delta R.T. 0.001 min
Lab File: BP024906.D
Acq: 11 Jun 2025 10:50

Instrument :
BNA_P
ClientSampleId :
PB168300BL

Tgt Ion:152 Resp: 253698

Ion	Ratio	Lower	Upper
152	100		
150	155.9	122.1	183.1
115	61.4	46.4	69.6

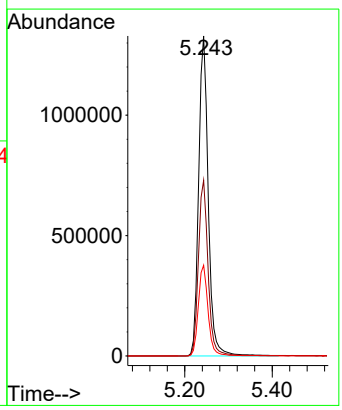


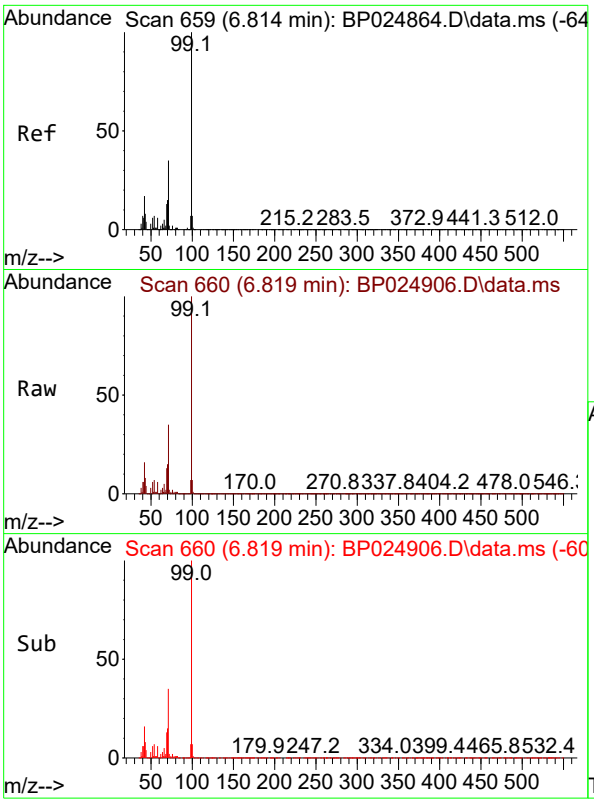


#5
2-Fluorophenol
Concen: 134.190 ng
RT: 5.243 min Scan# 392
Delta R.T. 0.000 min
Lab File: BP024906.D
Acq: 11 Jun 2025 10:50

Tgt Ion:112 Resp: 2039524

Ion	Ratio	Lower	Upper
112	100		
64	54.9	44.7	67.1
63	28.4	23.5	35.3



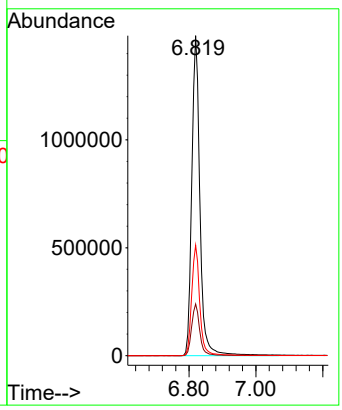


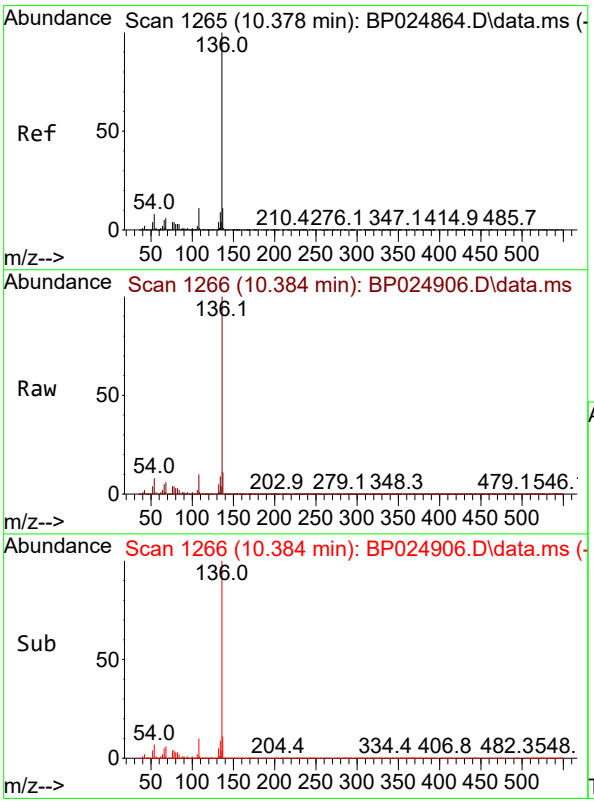
#7
Phenol-d6
Concen: 125.349 ng
RT: 6.819 min Scan# 6
Delta R.T. 0.006 min
Lab File: BP024906.D
Acq: 11 Jun 2025 10:50

Instrument :
BNA_P
ClientSampleId :
PB168300BL

Tgt Ion: 99 Resp: 2520708

Ion	Ratio	Lower	Upper
99	100		
42	16.2	13.4	20.2
71	34.5	27.6	41.4

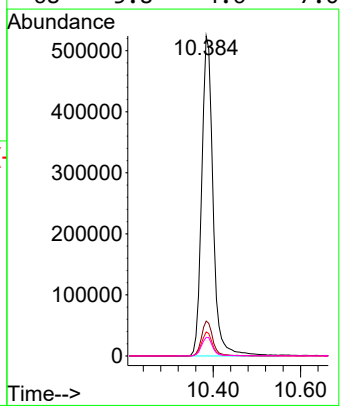


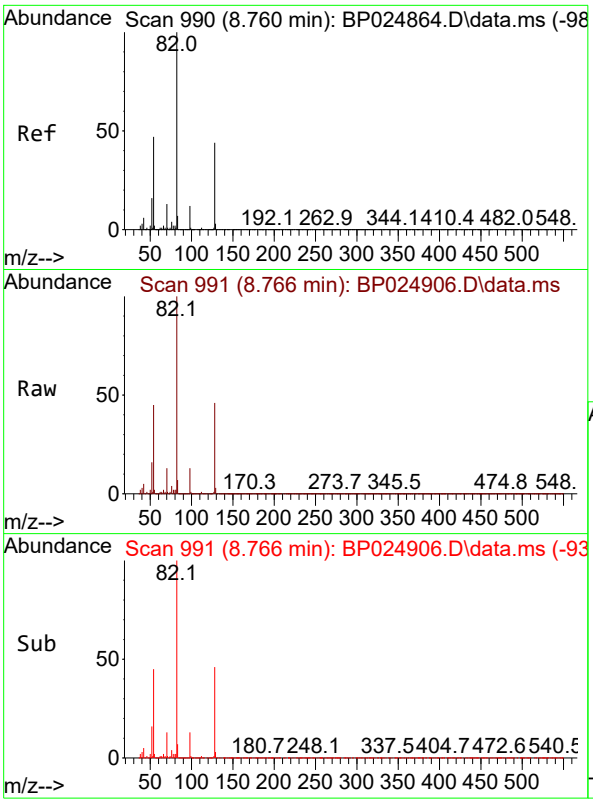


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.384 min Scan# 1266
Delta R.T. 0.006 min
Lab File: BP024906.D
Acq: 11 Jun 2025 10:50

Tgt Ion:136 Resp: 948256

Ion	Ratio	Lower	Upper
136	100		
137	10.9	8.9	13.3
54	7.5	6.1	9.1
68	5.8	4.6	7.0



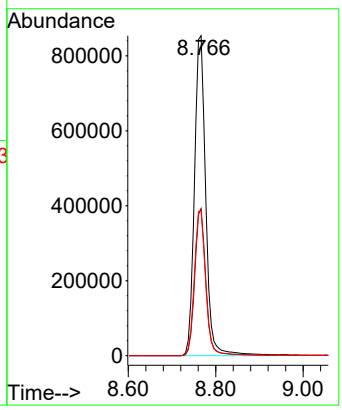


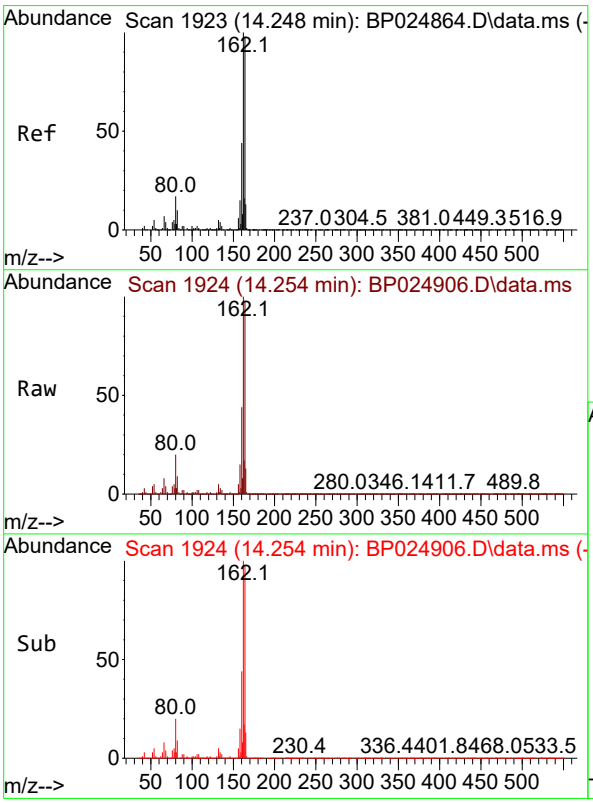
#23
Nitrobenzene-d5
Concen: 79.130 ng
RT: 8.766 min Scan# 9
Delta R.T. 0.006 min
Lab File: BP024906.D
Acq: 11 Jun 2025 10:50

Instrument :
BNA_P
ClientSampleId :
PB168300BL

Tgt Ion: 82 Resp: 1544165

Ion	Ratio	Lower	Upper
82	100		
128	46.0	35.3	52.9
54	45.5	37.4	56.0

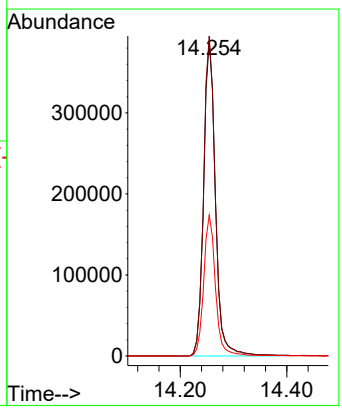


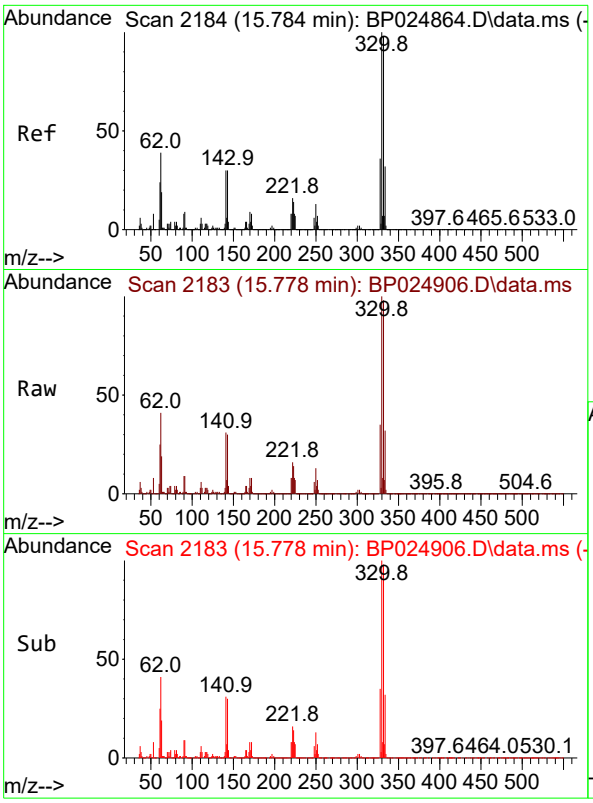


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.254 min Scan# 1924
Delta R.T. 0.006 min
Lab File: BP024906.D
Acq: 11 Jun 2025 10:50

Tgt Ion:164 Resp: 596004

Ion	Ratio	Lower	Upper
164	100		
162	101.7	81.6	122.4
160	44.7	36.2	54.2



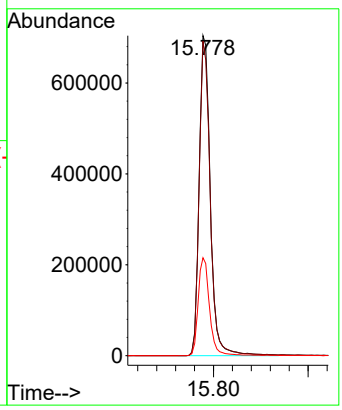


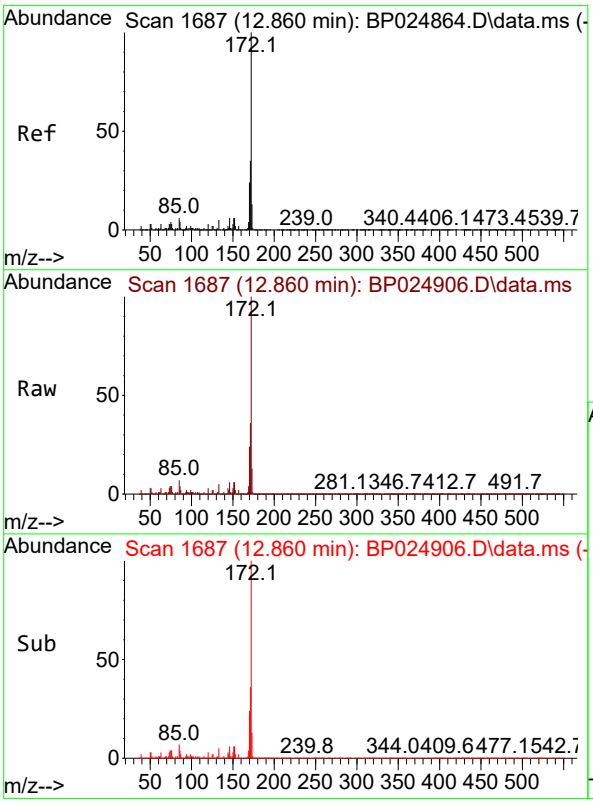
#42
2,4,6-Tribromophenol
Concen: 140.163 ng
RT: 15.778 min Scan# 2
Delta R.T. -0.006 min
Lab File: BP024906.D
Acq: 11 Jun 2025 10:50

Instrument :
BNA_P
ClientSampleId :
PB168300BL

Tgt Ion:330 Resp: 1154951

Ion	Ratio	Lower	Upper
330	100		
332	97.2	77.7	116.5
141	31.0	26.4	39.6

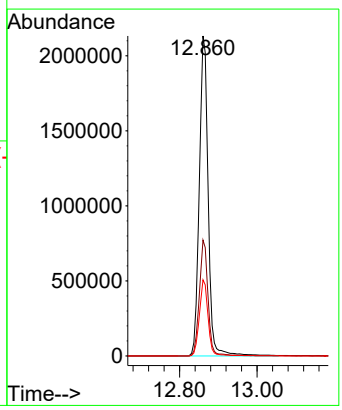


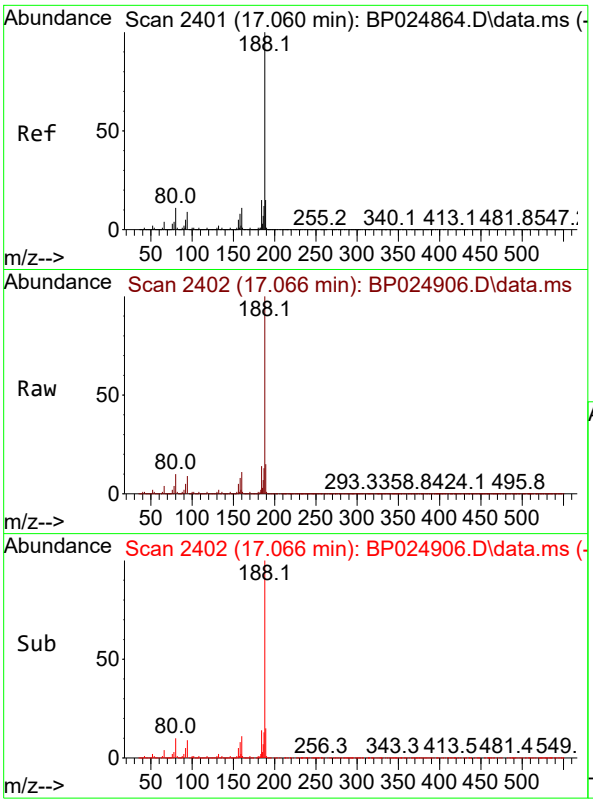


#45
2-Fluorobiphenyl
Concen: 76.629 ng
RT: 12.860 min Scan# 1687
Delta R.T. 0.000 min
Lab File: BP024906.D
Acq: 11 Jun 2025 10:50

Tgt Ion:172 Resp: 3390280

Ion	Ratio	Lower	Upper
172	100		
171	36.2	28.3	42.5
170	23.8	19.0	28.4



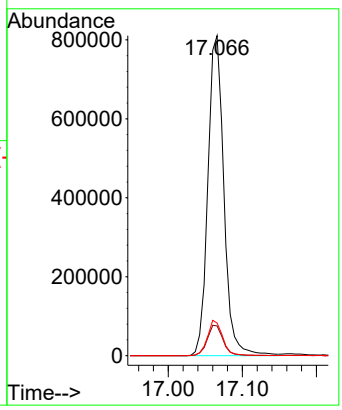


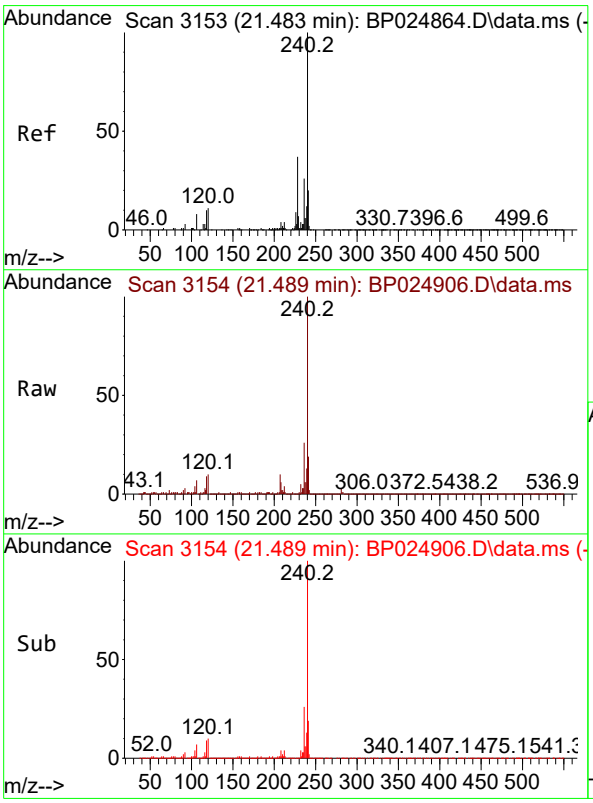
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.066 min Scan# 24
Delta R.T. 0.006 min
Lab File: BP024906.D
Acq: 11 Jun 2025 10:50

Instrument :
BNA_P
ClientSampleId :
PB168300BL

Tgt Ion:188 Resp: 1216143

Ion	Ratio	Lower	Upper
188	100		
94	9.3	7.3	10.9
80	10.2	8.5	12.7

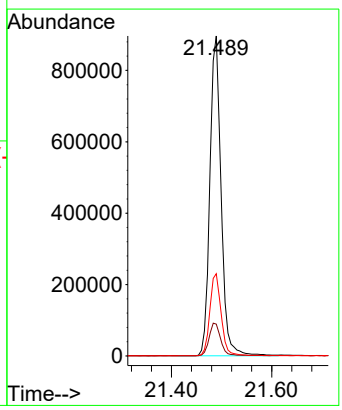


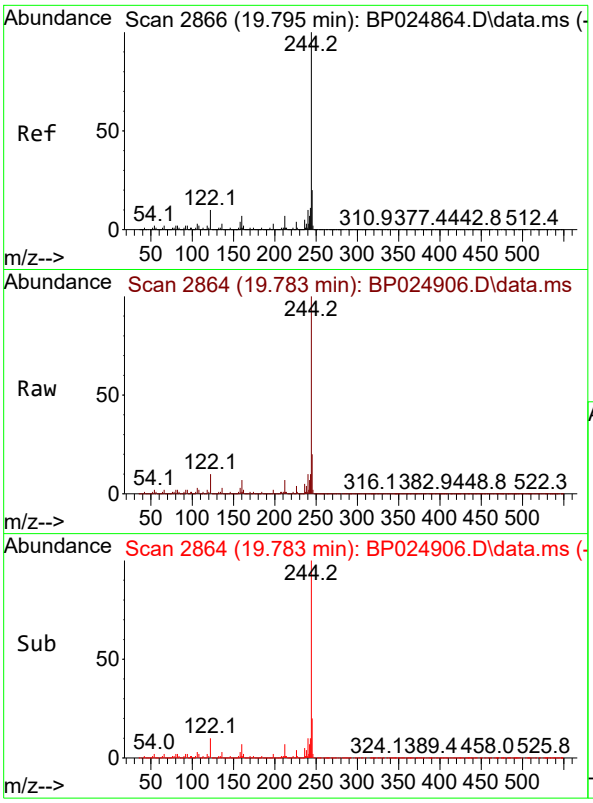


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.489 min Scan# 3154
Delta R.T. 0.006 min
Lab File: BP024906.D
Acq: 11 Jun 2025 10:50

Tgt Ion:240 Resp: 1397582

Ion	Ratio	Lower	Upper
240	100		
120	9.9	8.9	13.3
236	25.7	20.9	31.3



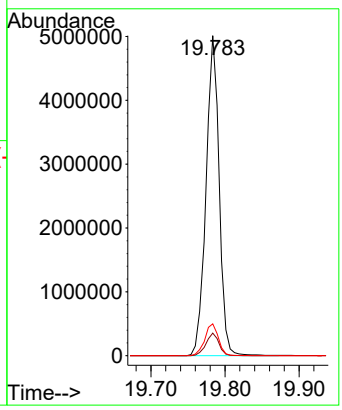


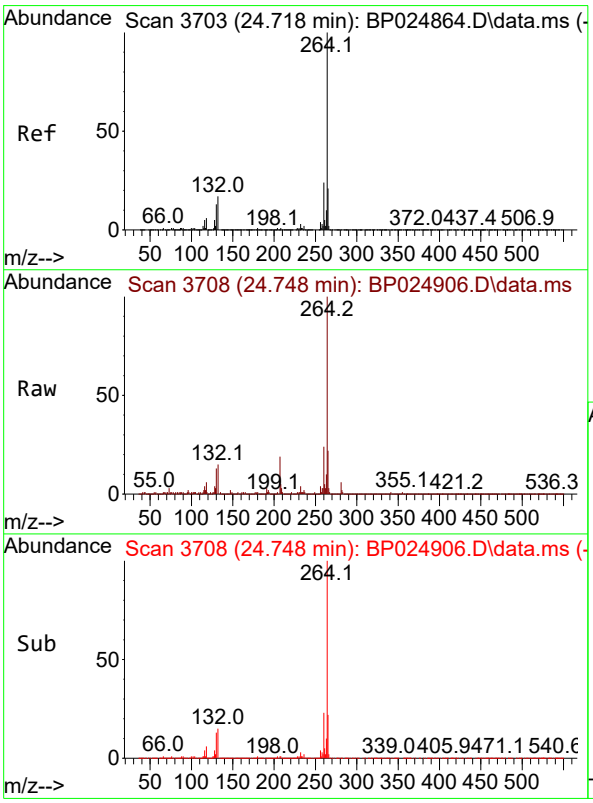
#79
Terphenyl-d14
Concen: 79.081 ng
RT: 19.783 min Scan# 2
Delta R.T. -0.012 min
Lab File: BP024906.D
Acq: 11 Jun 2025 10:50

Instrument :
BNA_P
ClientSampleId :
PB168300BL

Tgt Ion:244 Resp: 6166701

Ion	Ratio	Lower	Upper
244	100		
212	7.0	5.6	8.4
122	10.0	7.7	11.5

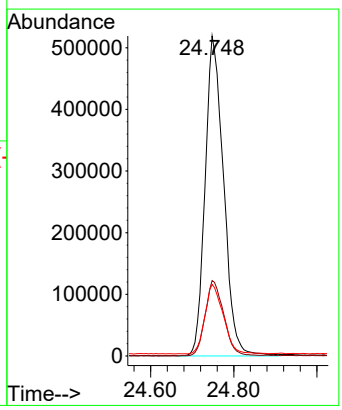




#86
Perylene-d12
Concen: 20.000 ng
RT: 24.748 min Scan# 3708
Delta R.T. 0.029 min
Lab File: BP024906.D
Acq: 11 Jun 2025 10:50

Tgt Ion:264 Resp: 1605439

Ion	Ratio	Lower	Upper
264	100		
260	23.5	19.0	28.4
265	22.4	17.4	26.0



Sample Results: **BP024906.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP061125\
Data File : BP024906.D
Acq On : 11 Jun 2025 10:50
Operator : RC/JU
Sample : PB168300BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
PB168300BL

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP060625.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BP024906.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.773	307	312	331	rVB	382885	545125	3.26%	0.771%
2	5.243	385	392	423	rBV	4438331	6852283	40.96%	9.695%
3	6.819	653	660	682	rBV	4018995	6826160	40.80%	9.658%
4	7.614	788	795	810	rBV	946771	1459660	8.73%	2.065%
5	8.766	982	991	1018	rBV	2423375	4397891	26.29%	6.222%
6	10.384	1258	1266	1283	rBV	1053401	1899016	11.35%	2.687%
7	12.860	1680	1687	1715	rBV	6322621	9852088	58.89%	13.939%
8	14.254	1917	1924	1947	rBV	1644479	2540103	15.18%	3.594%
9	15.778	2176	2183	2210	rBV	5027306	8306354	49.65%	11.752%
10	17.066	2395	2402	2416	rBV2	2015391	3070765	18.36%	4.345%
11	19.483	2809	2813	2817	rBV	241929	278523	1.66%	0.394%
12	19.783	2858	2864	2877	rBV	13419804	16728965	100.00%	23.669%
13	20.578	2995	2999	3005	rBV	205671	296700	1.77%	0.420%
14	21.489	3148	3154	3166	rBV	2378377	3772345	22.55%	5.337%
15	24.748	3701	3708	3722	rBV	1301398	3853260	23.03%	5.452%

Sum of corrected areas: 70679238

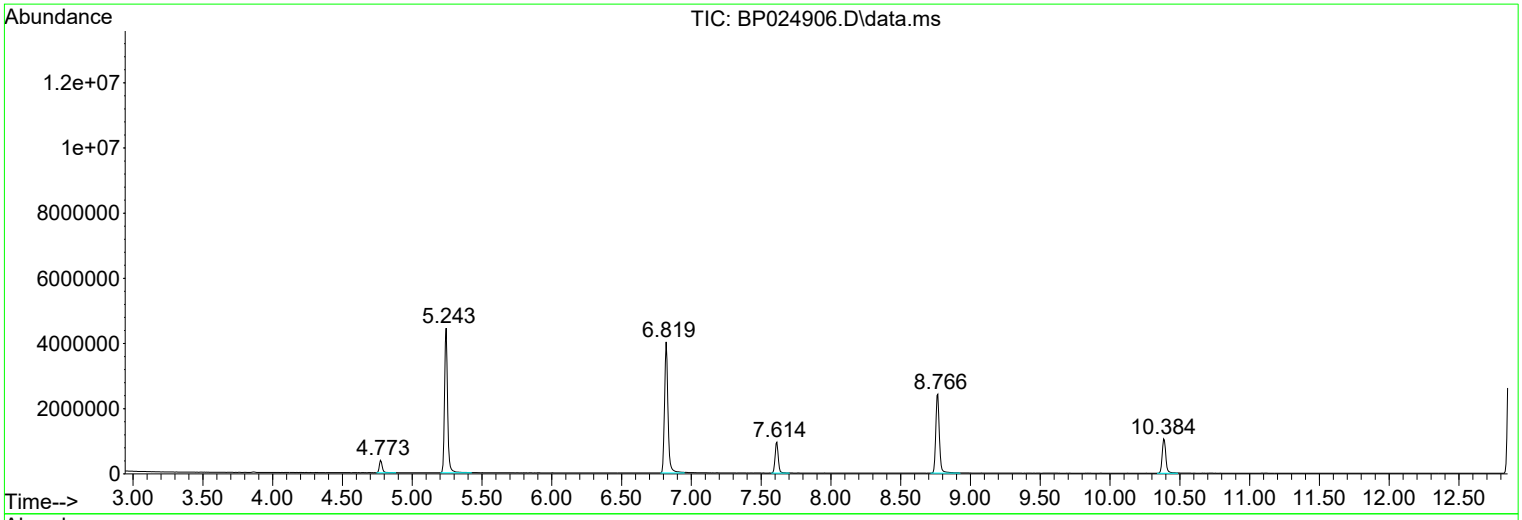
Sample Results: **BP024906.D**

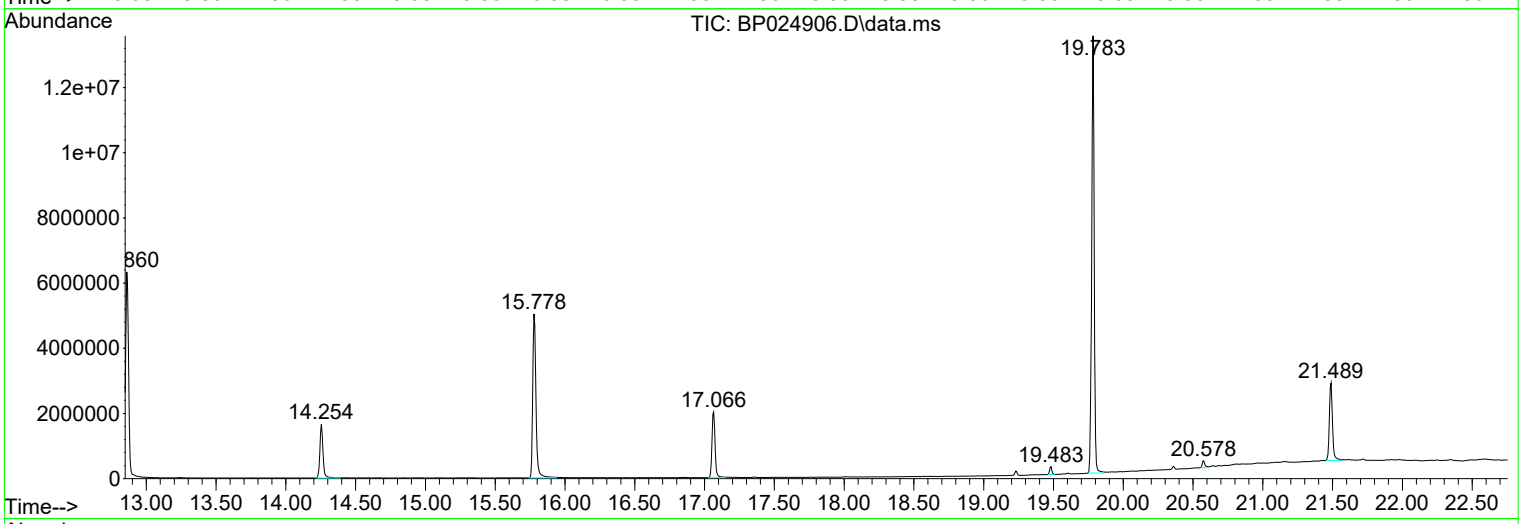
Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP061125\
Data File : BP024906.D
Acq On : 11 Jun 2025 10:50
Operator : RC/JU
Sample : PB168300BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

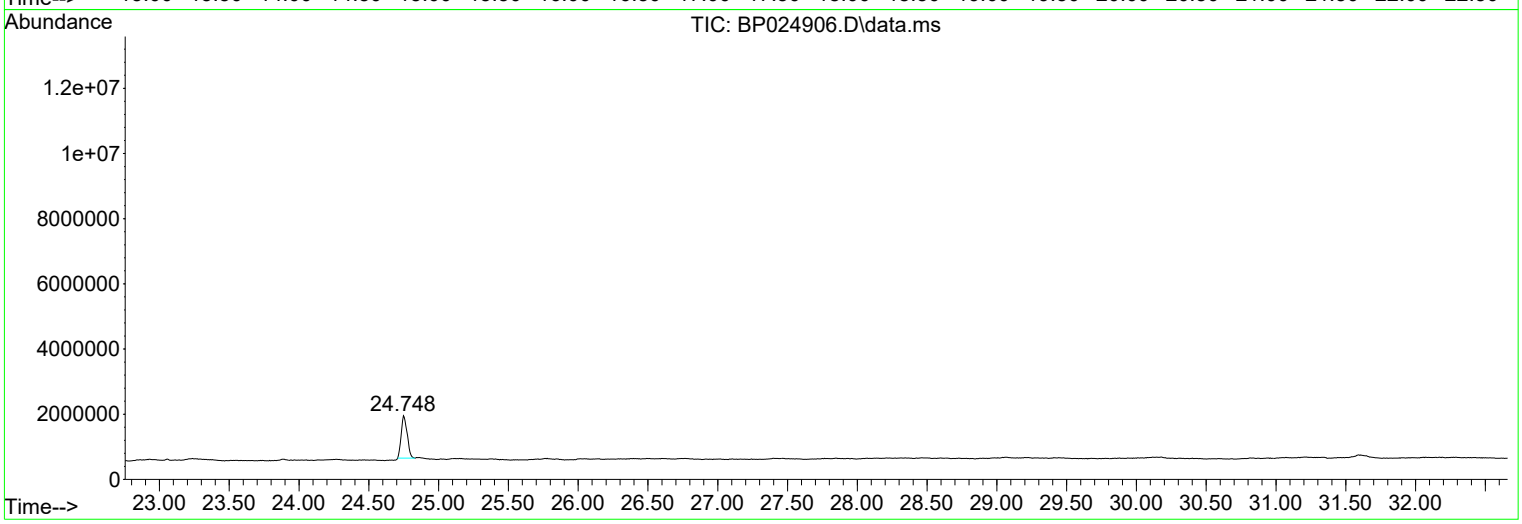
Instrument :
BNA_P
ClientSampleId :
PB168300BL

Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP060625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P







Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP061125\
Data File : BP024906.D
Acq On : 11 Jun 2025 10:50
Operator : RC/JU
Sample : PB168300BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
PB168300BL

Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP060625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

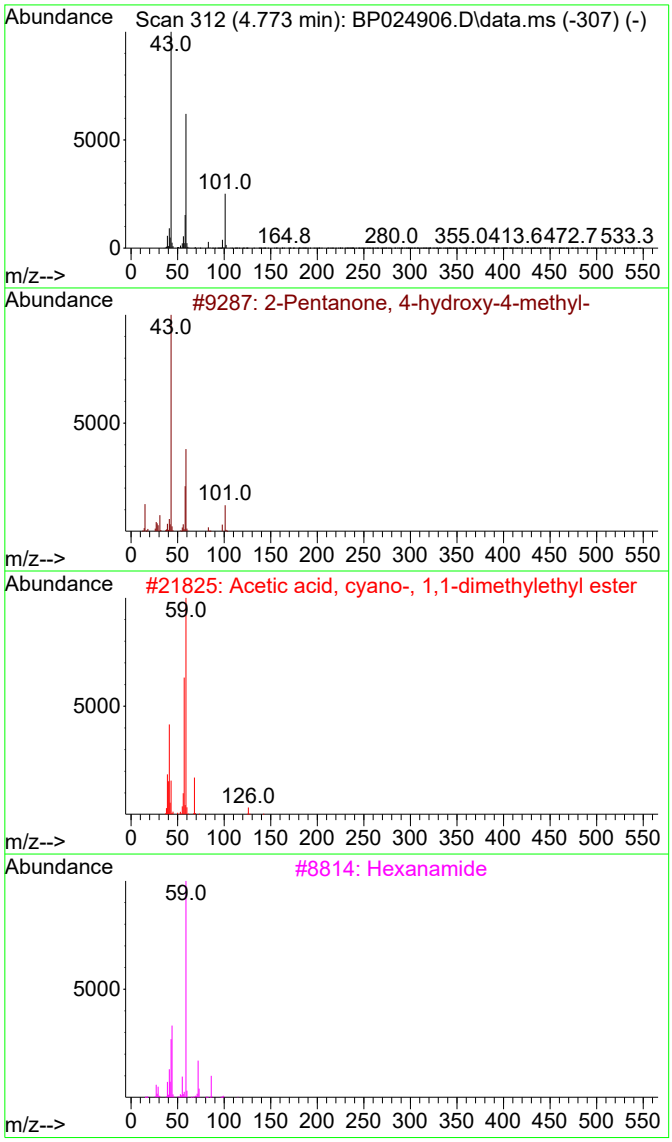
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

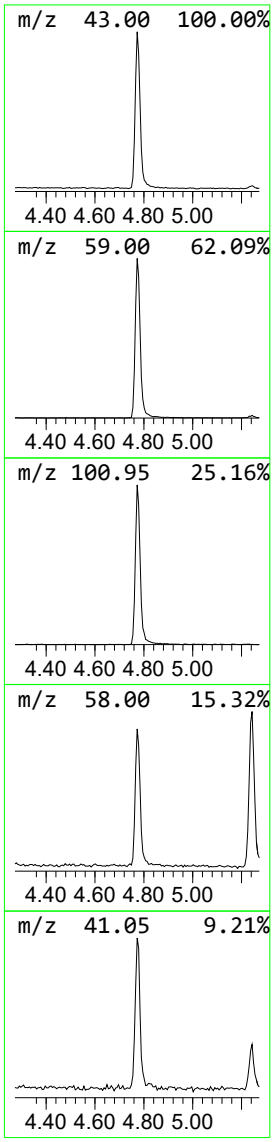
****

Peak Number 1 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.773	7.47 ng	545125	1,4-Dichlorobenzene-d4	7.614

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	64
2	Acetic acid, cyano-, 1,1-dimethy...	141	C7H11NO2	001116-98-9	25
3	Hexanamide	115	C6H13NO	000628-02-4	16
4	(+-)-4-Amino-4,5-dihydro-2(3H)-f...	101	C4H7NO2	016504-58-8	9
5	Butane, 1-ethoxy-	102	C6H14O	000628-81-9	9





Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP061125\
Data File : BP024906.D
Acq On : 11 Jun 2025 10:50
Operator : RC/JU
Sample : PB168300BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
PB168300BL

Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP060625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
2-Pentanone, 4-...	4.773	7.5	ng	545125	1	7.614	1459660	20.0

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF061125\
Data File : BF142727.D
Acq On : 11 Jun 2025 11:21
Operator : RC/JU
Sample : PB168285BS
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 11 11:45:43 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF061125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jun 11 05:56:09 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
PB168285BS

Manual Integrations APPROVED
Reviewed By :Anahy Claudio 06/12/2025
Supervised By :Jagrut Upadhyay 06/12/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.892	152	75631	20.000	ng	0.00
21) Naphthalene-d8	8.175	136	294551	20.000	ng	0.00
39) Acenaphthene-d10	9.933	164	162704	20.000	ng	0.00
64) Phenanthrene-d10	11.427	188	278222	20.000	ng	0.00
76) Chrysene-d12	14.068	240	147780	20.000	ng	0.00
86) Perylene-d12	15.562	264	156697	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.522	112	557674	125.583	ng	0.02
7) Phenol-d6	6.522	99	663936	127.044	ng	0.00
23) Nitrobenzene-d5	7.457	82	418857	77.824	ng	0.00
42) 2,4,6-Tribromophenol	10.727	330	230898	129.484	ng	0.00
45) 2-Fluorobiphenyl	9.257	172	933481	76.223	ng	0.00
79) Terphenyl-d14	13.010	244	879635	81.752	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.763	88	64643	36.783	ng	100
3) Pyridine	3.516	79	178507	40.510	ng	99
4) n-Nitrosodimethylamine	3.475	42	99969	44.341	ng	98
6) Aniline	6.557	93	222608	31.826	ng	97
8) 2-Chlorophenol	6.675	128	222610	45.872	ng	99
9) Benzaldehyde	6.439	77	104049	32.151	ng	98
10) Phenol	6.539	94	256115	44.090	ng	94
11) bis(2-Chloroethyl)ether	6.628	93	191831	44.212	ng	98
12) 1,3-Dichlorobenzene	6.834	146	238872	43.132	ng	99
13) 1,4-Dichlorobenzene	6.910	146	240362	42.945	ng	99
14) 1,2-Dichlorobenzene	7.063	146	233854	43.588	ng	99
15) Benzyl Alcohol	7.034	79	178579	45.210	ng	99
16) 2,2'-oxybis(1-Chloropr...	7.163	45	294148	43.059	ng	92
17) 2-Methylphenol	7.145	107	169079	45.448	ng	99
18) Hexachloroethane	7.404	117	87092	43.420	ng	100
19) n-Nitroso-di-n-propyla...	7.310	70	145357	43.690	ng	98
20) 3+4-Methylphenols	7.298	107	213736	45.571	ng	99
22) Acetophenone	7.304	105	289978	44.257	ng	99
24) Nitrobenzene	7.475	77	212823	44.554	ng	99
25) Isophorone	7.716	82	399446	43.834	ng	99
26) 2-Nitrophenol	7.792	139	122967	46.127	ng	99
27) 2,4-Dimethylphenol	7.828	122	205753	45.332	ng	100
28) bis(2-Chloroethoxy)met...	7.922	93	250547	44.284	ng	99
29) 2,4-Dichlorophenol	8.033	162	190058	45.374	ng	99
30) 1,2,4-Trichlorobenzene	8.116	180	202914	43.839	ng	100
31) Naphthalene	8.198	128	637437	43.758	ng	99
32) Benzoic acid	7.957	122	127508	49.883	ng	98
33) 4-Chloroaniline	8.245	127	83575	14.289	ng	98
34) Hexachlorobutadiene	8.316	225	127185	43.120	ng	98
35) Caprolactam	8.622	113	56567m	50.029	ng	
36) 4-Chloro-3-methylphenol	8.733	107	195715	44.935	ng	100
37) 2-Methylnaphthalene	8.892	142	399320	43.308	ng	98
38) 1-Methylnaphthalene	8.992	142	421083	44.084	ng	99
40) 1,2,4,5-Tetrachloroben...	9.057	216	210701	44.743	ng	99
41) Hexachlorocyclopentadiene	9.045	237	273896	90.621	ng	98
43) 2,4,6-Trichlorophenol	9.169	196	142414	46.719	ng	99

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF061125\
Data File : BF142727.D
Acq On : 11 Jun 2025 11:21
Operator : RC/JU
Sample : PB168285BS
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 11 11:45:43 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF061125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jun 11 05:56:09 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
PB168285BS

Manual Integrations APPROVED
Reviewed By :Anahy Claudio 06/12/2025
Supervised By :Jagrut Upadhyay 06/12/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.210	196	147700	44.861	ng	98
46) 1,1'-Biphenyl	9.357	154	559102	44.253	ng	100
47) 2-Chloronaphthalene	9.380	162	412111	44.275	ng	100
48) 2-Nitroaniline	9.475	65	120048	45.346	ng	99
49) Acenaphthylene	9.798	152	701774	44.715	ng	100
50) Dimethylphthalate	9.657	163	497771	45.814	ng	100
51) 2,6-Dinitrotoluene	9.722	165	108743	46.308	ng	97
52) Acenaphthene	9.969	154	489115	50.265	ng	99
53) 3-Nitroaniline	9.886	138	66608	26.152	ng	99
54) 2,4-Dinitrophenol	9.998	184	139520	108.465	ng	91
55) Dibenzofuran	10.145	168	615212	44.398	ng	99
56) 4-Nitrophenol	10.051	139	170781	98.864	ng	96
57) 2,4-Dinitrotoluene	10.127	165	149112	48.027	ng	98
58) Fluorene	10.486	166	480108	43.876	ng	99
59) 2,3,4,6-Tetrachlorophenol	10.263	232	127700	46.103	ng	100
60) Diethylphthalate	10.357	149	500364	46.443	ng	100
61) 4-Chlorophenyl-phenyle...	10.474	204	235568	44.082	ng	99
62) 4-Nitroaniline	10.510	138	108265	47.514	ng	99
63) Azobenzene	10.639	77	421629	44.810	ng	98
65) 4,6-Dinitro-2-methylph...	10.533	198	83683	48.031	ng	96
66) n-Nitrosodiphenylamine	10.598	169	424612	44.399	ng	100
67) 4-Bromophenyl-phenylether	10.969	248	144219	43.914	ng	99
68) Hexachlorobenzene	11.033	284	160594	44.053	ng	99
69) Atrazine	11.121	200	128999	50.593	ng	99
70) Pentachlorophenol	11.233	266	178839	93.589	ng	98
71) Phenanthrene	11.451	178	663039	44.483	ng	100
72) Anthracene	11.504	178	681281	44.184	ng	100
73) Carbazole	11.657	167	590398	45.737	ng	100
74) Di-n-butylphthalate	11.980	149	710586	49.299	ng	100
75) Fluoranthene	12.639	202	647918	45.714	ng	99
77) Benzidine	12.757	184	177445	33.716	ng	99
78) Pyrene	12.868	202	638902	46.522	ng	100
80) Butylbenzylphthalate	13.480	149	204524	50.362	ng	99
81) Benzo(a)anthracene	14.057	228	447930	45.741	ng	98
82) 3,3'-Dichlorobenzidine	14.021	252	68073	21.556	ng	97
83) Chrysene	14.098	228	422464	46.725	ng	100
84) Bis(2-ethylhexyl)phtha...	14.039	149	282460	46.345	ng	100
85) Di-n-octyl phthalate	14.657	149	520093	44.480	ng	100
87) Indeno(1,2,3-cd)pyrene	17.086	276	522405	44.988	ng	100
88) Benzo(b)fluoranthene	15.121	252	450291	48.804	ng	99
89) Benzo(k)fluoranthene	15.157	252	394562	44.074	ng	99
90) Benzo(a)pyrene	15.504	252	409410	46.669	ng	100
91) Dibenzo(a,h)anthracene	17.098	278	427909	45.131	ng	100
92) Benzo(g,h,i)perylene	17.545	276	416187	44.141	ng	100

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

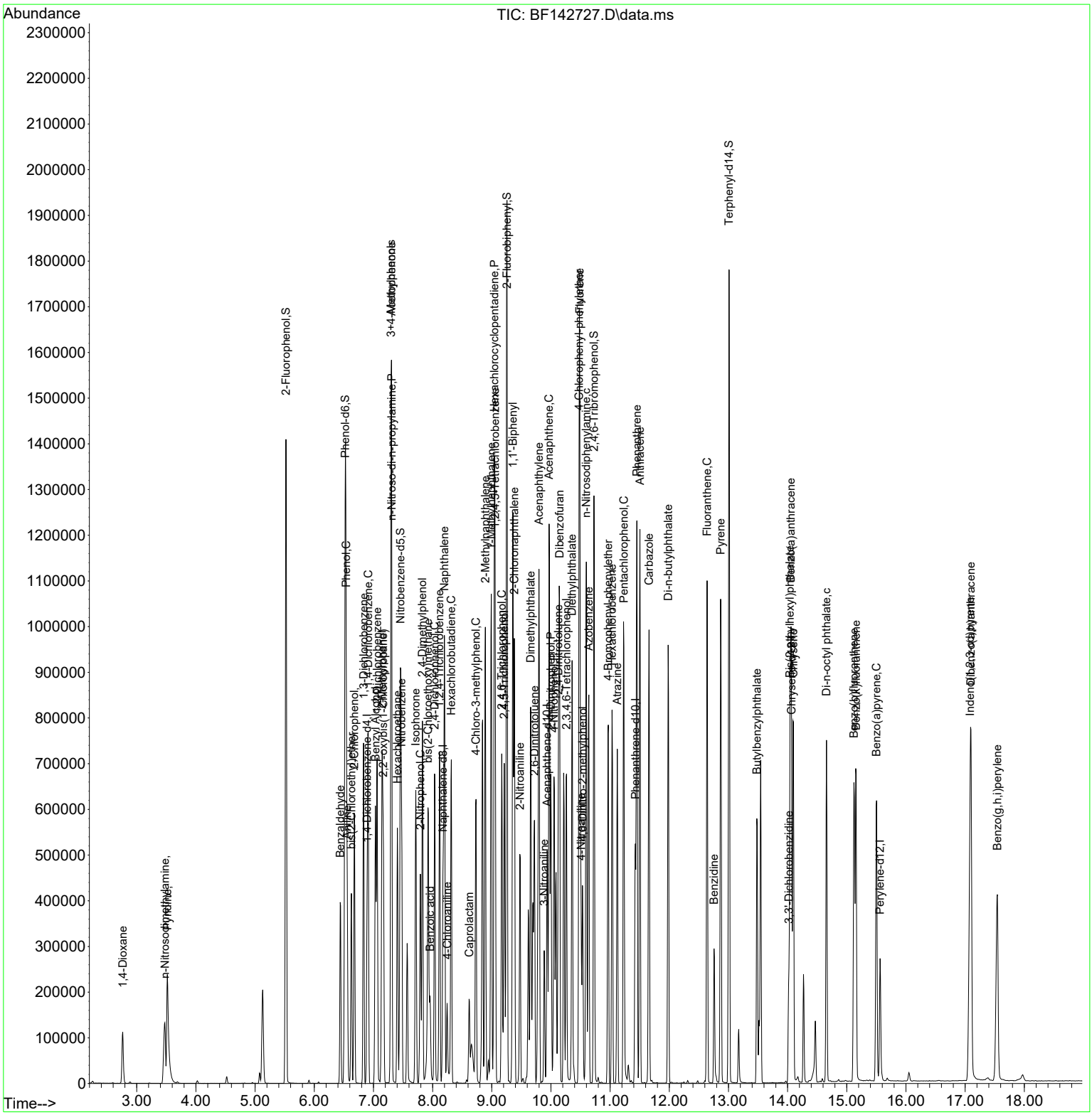
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF061125\
Data File : BF142727.D
Acq On : 11 Jun 2025 11:21
Operator : RC/JU
Sample : PB168285BS
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 11 11:45:43 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF061125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jun 11 05:56:09 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
PB168285BS

Manual Integrations APPROVED

Reviewed By :Anahy Claudio 06/12/2025
Supervised By :Jagrut Upadhyay 06/12/2025



Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP061125\
Data File : BP024907.D
Acq On : 11 Jun 2025 11:31
Operator : RC/JU
Sample : PB168300BS
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
PB168300BS

Quant Time: Jun 11 12:11:18 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP060625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 06 16:20:27 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.607	152	284260	20.000	ng	0.00
21) Naphthalene-d8	10.384	136	1118806	20.000	ng	0.00
39) Acenaphthene-d10	14.254	164	705062	20.000	ng	0.00
64) Phenanthrene-d10	17.060	188	1346679	20.000	ng	0.00
76) Chrysene-d12	21.489	240	1423480	20.000	ng	0.00
86) Perylene-d12	24.748	264	1633276	20.000	ng	0.03
System Monitoring Compounds						
5) 2-Fluorophenol	5.243	112	2215500	130.096	ng	0.00
7) Phenol-d6	6.819	99	2809851	124.705	ng	0.00
23) Nitrobenzene-d5	8.760	82	1728381	75.069	ng	0.00
42) 2,4,6-Tribromophenol	15.778	330	1345812	138.062	ng	0.00
45) 2-Fluorobiphenyl	12.860	172	3953950	75.546	ng	0.00
79) Terphenyl-d14	19.789	244	6466301	81.415	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.167	88	230919	30.817	ng	99
3) Pyridine	3.561	79	604735	33.558	ng	99
4) n-Nitrosodimethylamine	3.478	42	286701	38.915	ng	98
6) Aniline	6.949	93	1055415	36.704	ng	100
8) 2-Chlorophenol	7.190	128	865176	44.815	ng	99
9) Benzaldehyde	6.766	77	410374	31.598	ng	96
10) Phenol	6.849	94	1018483	43.847	ng	99
11) bis(2-Chloroethyl)ether	7.043	93	754525	41.300	ng	99
12) 1,3-Dichlorobenzene	7.502	146	871152	40.450	ng	98
13) 1,4-Dichlorobenzene	7.649	146	892518	41.072	ng	100
14) 1,2-Dichlorobenzene	7.960	146	854488	40.044	ng	99
15) Benzyl Alcohol	7.860	79	732307	42.348	ng	99
16) 2,2'-oxybis(1-Chloropr...	8.125	45	937163	39.192	ng	98
17) 2-Methylphenol	8.072	107	698663	43.073	ng	99
18) Hexachloroethane	8.672	117	330696	40.421	ng	98
19) n-Nitroso-di-n-propyla...	8.413	70	597122	38.983	ng	99
20) 3+4-Methylphenols	8.402	107	935876	42.290	ng	98
22) Acetophenone	8.431	105	1197113	42.350	ng	98
24) Nitrobenzene	8.807	77	883210	43.180	ng	98
25) Isophorone	9.325	82	1667646	41.792	ng	100
26) 2-Nitrophenol	9.507	139	462205	45.798	ng	99
27) 2,4-Dimethylphenol	9.584	122	788841	45.671	ng	99
28) bis(2-Chloroethoxy)met...	9.801	93	1024680	43.049	ng	100
29) 2,4-Dichlorophenol	10.054	162	775366	46.786	ng	99
30) 1,2,4-Trichlorobenzene	10.248	180	786972	42.101	ng	99
31) Naphthalene	10.431	128	2417478	42.164	ng	100
32) Benzoic acid	9.778	122	547046	46.869	ng	99
33) 4-Chloroaniline	10.554	127	782136	32.561	ng	99
34) Hexachlorobutadiene	10.707	225	493200	43.777	ng	99
35) Caprolactam	11.354	113	261628	42.887	ng	98
36) 4-Chloro-3-methylphenol	11.707	107	865787	45.292	ng	97
37) 2-Methylnaphthalene	12.048	142	1554959	42.755	ng	99
38) 1-Methylnaphthalene	12.272	142	1625831	41.814	ng	98
40) 1,2,4,5-Tetrachloroben...	12.425	216	886419	44.307	ng	99
41) Hexachlorocyclopentadiene	12.395	237	1074406	88.047	ng	100
43) 2,4,6-Trichlorophenol	12.678	196	626192	46.607	ng	99

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP061125\
Data File : BP024907.D
Acq On : 11 Jun 2025 11:31
Operator : RC/JU
Sample : PB168300BS
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
PB168300BS

Quant Time: Jun 11 12:11:18 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP060625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 06 16:20:27 2025
Response via : Initial Calibration

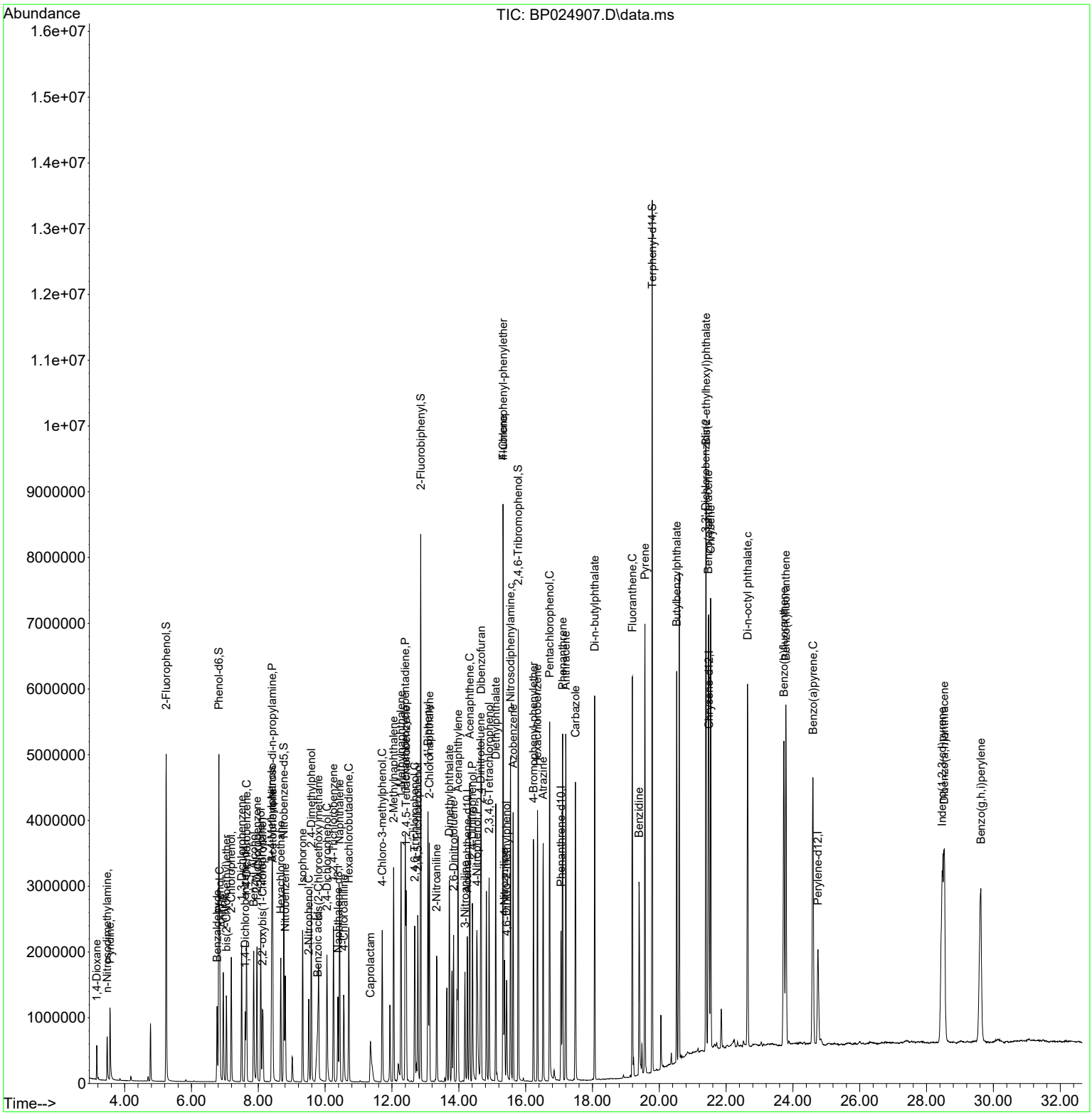
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	12.772	196	686152	47.686	ng		98
46) 1,1'-Biphenyl	13.078	154	2216063	43.250	ng		99
47) 2-Chloronaphthalene	13.119	162	1704725	43.288	ng		99
48) 2-Nitroaniline	13.337	65	537932	44.431	ng		99
49) Acenaphthylene	13.978	152	2807623	42.758	ng		100
50) Dimethylphthalate	13.719	163	2231425	42.903	ng		100
51) 2,6-Dinitrotoluene	13.842	165	491014	43.792	ng		99
52) Acenaphthene	14.325	154	1619409	43.039	ng		100
53) 3-Nitroaniline	14.184	138	432828	37.198	ng		100
54) 2,4-Dinitrophenol	14.407	184	650826	88.505	ng		98
55) Dibenzofuran	14.666	168	2564969	42.468	ng		99
56) 4-Nitrophenol	14.542	139	822273	83.238	ng		98
57) 2,4-Dinitrotoluene	14.654	165	707461	45.106	ng		95
58) Fluorene	15.325	166	2086108	42.756	ng		100
59) 2,3,4,6-Tetrachlorophenol	14.907	232	604922	47.053	ng		96
60) Diethylphthalate	15.107	149	2295631	44.287	ng		99
61) 4-Chlorophenyl-phenyle...	15.325	204	1051126	44.061	ng		99
62) 4-Nitroaniline	15.366	138	495136	46.930	ng		96
63) Azobenzene	15.625	77	2041999	42.953	ng		97
65) 4,6-Dinitro-2-methylph...	15.431	198	409834	46.315	ng		98
66) n-Nitrosodiphenylamine	15.548	169	1849021	44.298	ng		99
67) 4-Bromophenyl-phenylether	16.236	248	696351	45.828	ng		97
68) Hexachlorobenzene	16.354	284	826223	44.853	ng		97
69) Atrazine	16.525	200	688764	45.518	ng		99
70) Pentachlorophenol	16.719	266	1036395	108.710	ng		98
71) Phenanthrene	17.107	178	3244535	43.598	ng		99
72) Anthracene	17.201	178	3273182	43.428	ng		99
73) Carbazole	17.489	167	3114427	44.581	ng		100
74) Di-n-butylphthalate	18.066	149	4041854	46.696	ng		100
75) Fluoranthene	19.195	202	3763744	43.635	ng		99
77) Benzidine	19.395	184	2017436	45.760	ng		99
78) Pyrene	19.572	202	3916517	44.040	ng		100
80) Butylbenzylphthalate	20.524	149	1923581	47.222	ng		97
81) Benzo(a)anthracene	21.471	228	4049426	44.478	ng		100
82) 3,3'-Dichlorobenzidine	21.389	252	1318154	36.469	ng		100
83) Chrysene	21.536	228	3760081	43.587	ng		99
84) Bis(2-ethylhexyl)phtha...	21.401	149	2843025	48.712	ng		99
85) Di-n-octyl phthalate	22.642	149	4956194	48.178	ng		99
87) Indeno(1,2,3-cd)pyrene	28.465	276	5466015	45.868	ng	#	92
88) Benzo(b)fluoranthene	23.730	252	4356357	46.606	ng		99
89) Benzo(k)fluoranthene	23.789	252	4245852	44.624	ng		100
90) Benzo(a)pyrene	24.601	252	4159188	45.563	ng		99
91) Dibenzo(a,h)anthracene	28.530	278	4542460	46.830	ng		99
92) Benzo(g,h,i)perylene	29.624	276	4413732	45.861	ng		99

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP061125\
Data File : BP024907.D
Acq On : 11 Jun 2025 11:31
Operator : RC/JU
Sample : PB168300BS
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
PB168300BS

Quant Time: Jun 11 12:11:18 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP060625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 06 16:20:27 2025
Response via : Initial Calibration



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF061125\
Data File : BF142728.D
Acq On : 11 Jun 2025 11:50
Operator : RC/JU
Sample : PB168285BSD
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 11 12:17:59 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF061125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jun 11 05:56:09 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
PB168285BSD

Manual Integrations APPROVED
Reviewed By :Anahy Claudio 06/12/2025
Supervised By :Jagrut Upadhyay 06/12/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.893	152	79958	20.000	ng	0.00
21) Naphthalene-d8	8.181	136	304653	20.000	ng	0.00
39) Acenaphthene-d10	9.939	164	167586	20.000	ng	0.00
64) Phenanthrene-d10	11.428	188	281985	20.000	ng	0.00
76) Chrysene-d12	14.069	240	148975	20.000	ng	0.00
86) Perylene-d12	15.563	264	159540	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.522	112	584593	124.521	ng	0.02
7) Phenol-d6	6.528	99	699315	126.573	ng	0.00
23) Nitrobenzene-d5	7.457	82	442271	79.449	ng	0.00
42) 2,4,6-Tribromophenol	10.733	330	236790	128.920	ng	0.00
45) 2-Fluorobiphenyl	9.257	172	979443	77.646	ng	0.00
79) Terphenyl-d14	13.010	244	859457	79.236	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.769	88	67790	36.486	ng	99
3) Pyridine	3.522	79	187784	40.309	ng	99
4) n-Nitrosodimethylamine	3.481	42	106761	44.791	ng	98
6) Aniline	6.557	93	235031	31.783	ng	95
8) 2-Chlorophenol	6.681	128	235077	45.820	ng	98
9) Benzaldehyde	6.446	77	108698	31.769	ng	96
10) Phenol	6.540	94	271535	44.215	ng	95
11) bis(2-Chloroethyl)ether	6.628	93	203412	44.344	ng	99
12) 1,3-Dichlorobenzene	6.834	146	252496	43.125	ng	99
13) 1,4-Dichlorobenzene	6.910	146	254095	42.942	ng	99
14) 1,2-Dichlorobenzene	7.063	146	244725	43.146	ng	99
15) Benzyl Alcohol	7.034	79	189979	45.494	ng	99
16) 2,2'-oxybis(1-Chloropr...	7.169	45	308921	42.774	ng	98
17) 2-Methylphenol	7.146	107	181748	46.210	ng	99
18) Hexachloroethane	7.404	117	91334	43.071	ng	99
19) n-Nitroso-di-n-propyla...	7.310	70	153317	43.589	ng	100
20) 3+4-Methylphenols	7.298	107	228375	46.057	ng	98
22) Acetophenone	7.304	105	305840	45.131	ng	98
24) Nitrobenzene	7.481	77	224388	45.417	ng	100
25) Isophorone	7.716	82	421864	44.759	ng	99
26) 2-Nitrophenol	7.793	139	128129	46.469	ng	99
27) 2,4-Dimethylphenol	7.828	122	217370	46.303	ng	100
28) bis(2-Chloroethoxy)met...	7.928	93	264684	45.231	ng	100
29) 2,4-Dichlorophenol	8.040	162	204043	47.097	ng	97
30) 1,2,4-Trichlorobenzene	8.116	180	216097	45.139	ng	100
31) Naphthalene	8.198	128	674474	44.765	ng	99
32) Benzoic acid	7.957	122	136622	51.676	ng	99
33) 4-Chloroaniline	8.245	127	86856	14.357	ng	99
34) Hexachlorobutadiene	8.316	225	134005	43.926	ng	99
35) Caprolactam	8.622	113	58307m	49.858	ng	
36) 4-Chloro-3-methylphenol	8.734	107	206170	45.766	ng	99
37) 2-Methylnaphthalene	8.892	142	428144	44.895	ng	99
38) 1-Methylnaphthalene	8.992	142	441163	44.655	ng	100
40) 1,2,4,5-Tetrachloroben...	9.057	216	216872	44.712	ng	99
41) Hexachlorocyclopentadiene	9.045	237	293138	94.162	ng	99
43) 2,4,6-Trichlorophenol	9.169	196	148294	47.231	ng	99

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF061125\
Data File : BF142728.D
Acq On : 11 Jun 2025 11:50
Operator : RC/JU
Sample : PB168285BSD
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 11 12:17:59 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF061125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jun 11 05:56:09 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
PB168285BSD

Manual Integrations APPROVED
Reviewed By :Anahy Claudio 06/12/2025
Supervised By :Jagrut Upadhyay 06/12/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.210	196	155805	45.944	ng	97
46) 1,1'-Biphenyl	9.357	154	586146	45.042	ng	100
47) 2-Chloronaphthalene	9.381	162	434176	45.287	ng	100
48) 2-Nitroaniline	9.481	65	123837	45.415	ng	95
49) Acenaphthylene	9.798	152	733996	45.406	ng	100
50) Dimethylphthalate	9.657	163	522022	46.646	ng	100
51) 2,6-Dinitrotoluene	9.722	165	111554	46.122	ng	95
52) Acenaphthene	9.975	154	499655	49.852	ng	99
53) 3-Nitroaniline	9.886	138	67107	25.580	ng	98
54) 2,4-Dinitrophenol	9.998	184	142845	107.815	ng	93
55) Dibenzofuran	10.145	168	638399	44.730	ng	100
56) 4-Nitrophenol	10.057	139	172443	96.918	ng	97
57) 2,4-Dinitrotoluene	10.128	165	152297	47.624	ng	98
58) Fluorene	10.486	166	503700	44.691	ng	100
59) 2,3,4,6-Tetrachlorophenol	10.263	232	131356	46.041	ng	99
60) Diethylphthalate	10.357	149	516838	46.575	ng	99
61) 4-Chlorophenyl-phenyle...	10.475	204	248444	45.137	ng	99
62) 4-Nitroaniline	10.510	138	109301	46.571	ng	98
63) Azobenzene	10.639	77	441139	45.518	ng	98
65) 4,6-Dinitro-2-methylph...	10.539	198	86177	48.802	ng	98
66) n-Nitrosodiphenylamine	10.598	169	437418	45.128	ng	99
67) 4-Bromophenyl-phenylether	10.969	248	150357	45.172	ng	98
68) Hexachlorobenzene	11.033	284	164704	44.578	ng	98
69) Atrazine	11.122	200	128706	49.805	ng	100
70) Pentachlorophenol	11.233	266	179040	92.443	ng	97
71) Phenanthrene	11.451	178	678589	44.919	ng	100
72) Anthracene	11.504	178	702094	44.926	ng	100
73) Carbazole	11.657	167	601663	45.988	ng	99
74) Di-n-butylphthalate	11.980	149	699562	47.886	ng	99
75) Fluoranthene	12.639	202	645627	44.944	ng	99
77) Benzidine	12.763	184	172676	32.546	ng	98
78) Pyrene	12.875	202	631683	45.628	ng	99
80) Butylbenzylphthalate	13.486	149	206062	50.334	ng	98
81) Benzo(a)anthracene	14.057	228	469680	47.577	ng	99
82) 3,3'-Dichlorobenzidine	14.022	252	70698	22.208	ng	100
83) Chrysene	14.098	228	408413	44.809	ng	100
84) Bis(2-ethylhexyl)phtha...	14.045	149	298050	48.511	ng	99
85) Di-n-octyl phthalate	14.657	149	555755	47.148	ng	100
87) Indeno(1,2,3-cd)pyrene	17.092	276	547077	46.273	ng	100
88) Benzo(b)fluoranthene	15.127	252	436349	46.450	ng	99
89) Benzo(k)fluoranthene	15.157	252	431458	47.337	ng	100
90) Benzo(a)pyrene	15.504	252	424339	47.509	ng	99
91) Dibenzo(a,h)anthracene	17.104	278	449495	46.562	ng	100
92) Benzo(g,h,i)perylene	17.551	276	437957	45.623	ng	100

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

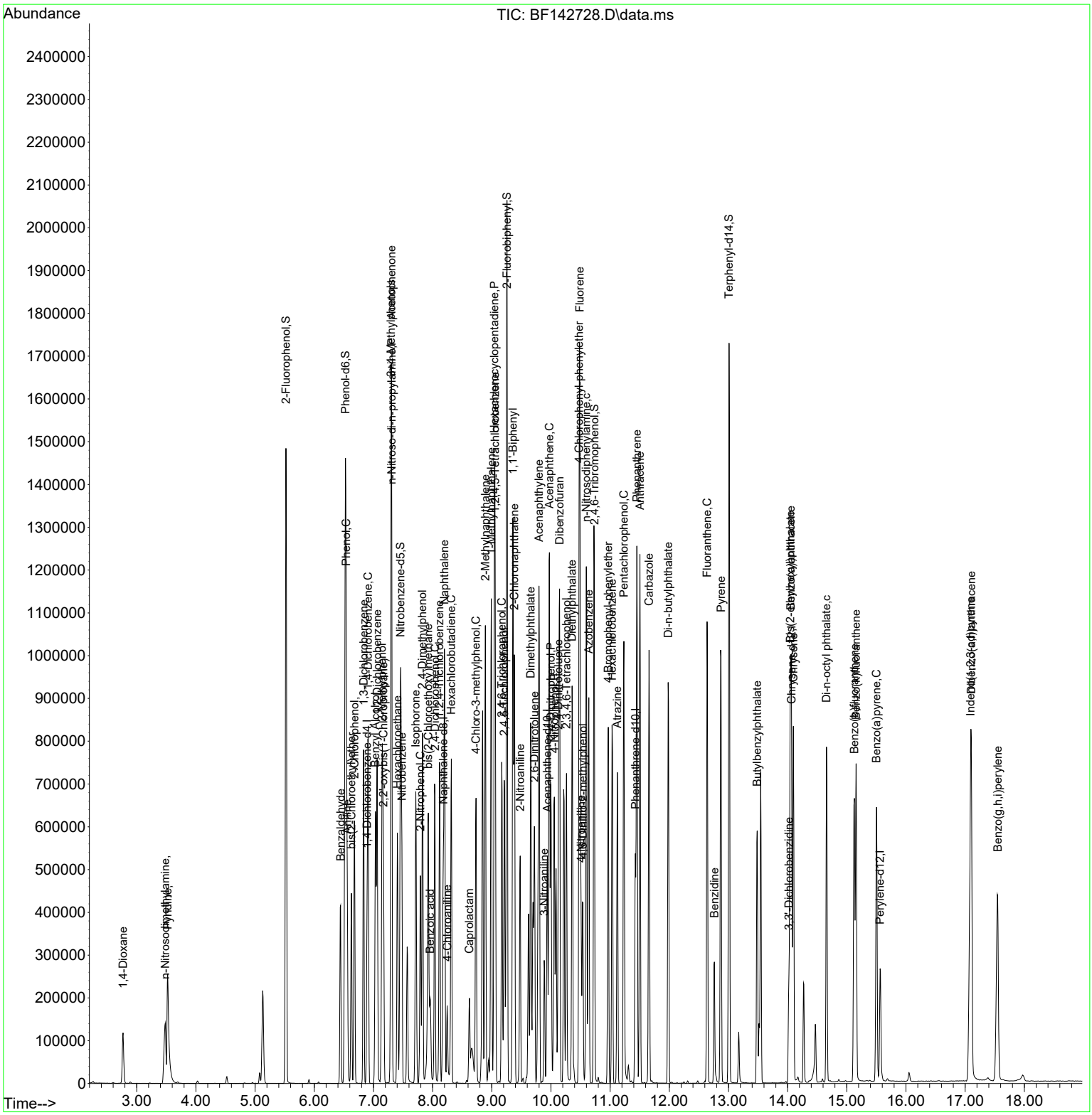
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF061125\
Data File : BF142728.D
Acq On : 11 Jun 2025 11:50
Operator : RC/JU
Sample : PB168285BSD
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 11 12:17:59 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF061125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jun 11 05:56:09 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
PB168285BSD

Manual Integrations APPROVED

Reviewed By :Anahy Claudio 06/12/2025
Supervised By :Jagrut Upadhyay 06/12/2025



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF060625\
Data File : BF142644.D
Acq On : 06 Jun 2025 13:54
Operator : RC/JU
Sample : Q2207-37MS
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
BU-703-COMP-05MS

Quant Time: Jun 06 14:25:49 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 20 16:26:47 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.893	152	117558	20.000	ng	-0.01
21) Naphthalene-d8	8.181	136	431241	20.000	ng	0.00
39) Acenaphthene-d10	9.934	164	216176	20.000	ng	-0.01
64) Phenanthrene-d10	11.422	188	319672	20.000	ng	-0.01
76) Chrysene-d12	14.069	240	220105	20.000	ng	0.00
86) Perylene-d12	15.563	264	274187	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.516	112	499053	71.521	ng	0.00
7) Phenol-d6	6.522	99	682872	81.299	ng	-0.01
23) Nitrobenzene-d5	7.457	82	323135	40.859	ng	-0.02
42) 2,4,6-Tribromophenol	10.728	330	184142	76.749	ng	-0.01
45) 2-Fluorobiphenyl	9.251	172	583157	36.198	ng	-0.02
79) Terphenyl-d14	13.010	244	609901	37.866	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.722	88	111863	40.062	ng	99
3) Pyridine	3.481	79	289363	40.695	ng	99
4) n-Nitrosodimethylamine	3.434	42	145194	39.328	ng	91
6) Aniline	6.557	93	375537	33.251	ng	100
8) 2-Chlorophenol	6.681	128	303852	39.979	ng	100
9) Benzaldehyde	6.445	77	161195	31.907	ng	100
10) Phenol	6.534	94	370529	39.204	ng	99
11) bis(2-Chloroethyl)ether	6.628	93	274849	40.399	ng	99
12) 1,3-Dichlorobenzene	6.834	146	337570	39.804	ng	99
13) 1,4-Dichlorobenzene	6.910	146	342765	40.123	ng	98
14) 1,2-Dichlorobenzene	7.063	146	326772	39.975	ng	99
15) Benzyl Alcohol	7.034	79	237091	38.196	ng	97
16) 2,2'-oxybis(1-Chloropr...	7.169	45	451619	39.528	ng	99
17) 2-Methylphenol	7.145	107	227757	38.382	ng	99
18) Hexachloroethane	7.410	117	118979	39.886	ng	100
19) n-Nitroso-di-n-propyla...	7.304	70	187779	36.072	ng	99
20) 3+4-Methylphenols	7.298	107	279861	36.829	ng	97
22) Acetophenone	7.304	105	382211	40.038	ng	99
24) Nitrobenzene	7.475	77	287172	40.261	ng	100
25) Isophorone	7.716	82	511402	38.677	ng	98
26) 2-Nitrophenol	7.792	139	163664	42.942	ng	97
27) 2,4-Dimethylphenol	7.828	122	267216	39.757	ng	98
28) bis(2-Chloroethoxy)met...	7.922	93	325604	39.420	ng	99
29) 2,4-Dichlorophenol	8.034	162	242924	39.743	ng	99
30) 1,2,4-Trichlorobenzene	8.122	180	272393	41.062	ng	98
31) Naphthalene	8.204	128	857196	40.369	ng	100
32) Benzoic acid	7.939	122	161443	39.459	ng	98
33) 4-Chloroaniline	8.245	127	223466	25.972	ng	98
34) Hexachlorobutadiene	8.316	225	165358	39.922	ng	99
35) Caprolactam	8.610	113	68154	39.700	ng	97
36) 4-Chloro-3-methylphenol	8.728	107	232008	37.037	ng	96
37) 2-Methylnaphthalene	8.892	142	520098	38.933	ng	99
38) 1-Methylnaphthalene	8.992	142	526947	38.135	ng	100
40) 1,2,4,5-Tetrachloroben...	9.057	216	265808	42.834	ng	100
41) Hexachlorocyclopentadiene	9.045	237	323061	77.174	ng	100
43) 2,4,6-Trichlorophenol	9.169	196	167004	39.910	ng	98

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF060625\
Data File : BF142644.D
Acq On : 06 Jun 2025 13:54
Operator : RC/JU
Sample : Q2207-37MS
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
BU-703-COMP-05MS

Quant Time: Jun 06 14:25:49 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 20 16:26:47 2025
Response via : Initial Calibration

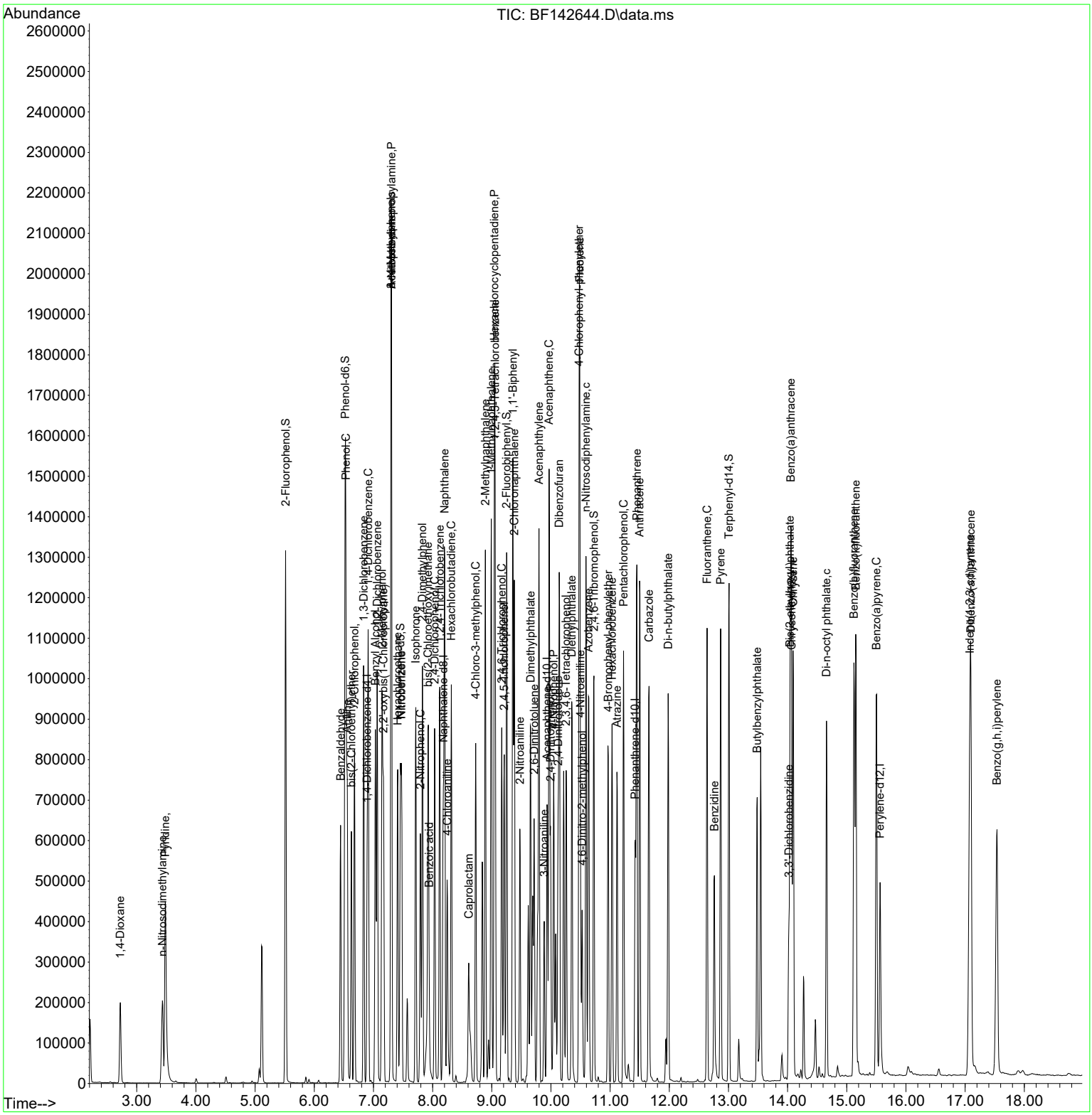
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.210	196	178778	40.510	ng	97
46) 1,1'-Biphenyl	9.357	154	692707	41.303	ng	99
47) 2-Chloronaphthalene	9.381	162	510578	41.205	ng	99
48) 2-Nitroaniline	9.475	65	144676	40.394	ng	100
49) Acenaphthylene	9.798	152	842923	40.286	ng	100
50) Dimethylphthalate	9.657	163	551253	38.646	ng	99
51) 2,6-Dinitrotoluene	9.716	165	122457	39.777	ng	98
52) Acenaphthene	9.969	154	547658	42.865	ng	100
53) 3-Nitroaniline	9.886	138	93600	27.836	ng	96
54) 2,4-Dinitrophenol	9.992	184	126962	79.823	ng	94
55) Dibenzofuran	10.139	168	732432	39.837	ng	98
56) 4-Nitrophenol	10.045	139	189972	76.568	ng	98
57) 2,4-Dinitrotoluene	10.122	165	159853	39.759	ng	98
58) Fluorene	10.486	166	550170	38.734	ng	99
59) 2,3,4,6-Tetrachlorophenol	10.257	232	140838	38.228	ng	98
60) Diethylphthalate	10.351	149	518361	37.209	ng	100
61) 4-Chlorophenyl-phenyle...	10.475	204	264039	37.841	ng	97
62) 4-Nitroaniline	10.498	138	116213	38.107	ng	94
63) Azobenzene	10.633	77	495235	39.579	ng	98
65) 4,6-Dinitro-2-methylph...	10.528	198	79518	44.573	ng	97
66) n-Nitrosodiphenylamine	10.592	169	460697	42.124	ng	99
67) 4-Bromophenyl-phenylether	10.969	248	156676	41.450	ng	96
68) Hexachlorobenzene	11.033	284	170657	40.821	ng	99
69) Atrazine	11.116	200	132122	45.489	ng	100
70) Pentachlorophenol	11.228	266	182944	77.508	ng	98
71) Phenanthrene	11.451	178	704036	41.211	ng	100
72) Anthracene	11.498	178	717873	41.173	ng	100
73) Carbazole	11.657	167	623057	41.801	ng	99
74) Di-n-butylphthalate	11.980	149	693198	42.487	ng	99
75) Fluoranthene	12.639	202	651996	40.844	ng	99
77) Benzidine	12.763	184	327776	40.018	ng	99
78) Pyrene	12.869	202	652849	31.796	ng	99
80) Butylbenzylphthalate	13.486	149	242067	42.666	ng	95
81) Benzo(a)anthracene	14.057	228	579293	39.414	ng	99
82) 3,3'-Dichlorobenzidine	14.021	252	120278	26.981	ng	99
83) Chrysene	14.092	228	548033	41.497	ng	100
84) Bis(2-ethylhexyl)phtha...	14.039	149	329388	45.352	ng	100
85) Di-n-octyl phthalate	14.657	149	609646	42.929	ng	99
87) Indeno(1,2,3-cd)pyrene	17.080	276	744043	36.146	ng	99
88) Benzo(b)fluoranthene	15.121	252	689106	42.465	ng	98
89) Benzo(k)fluoranthene	15.151	252	589646	38.795	ng	98
90) Benzo(a)pyrene	15.504	252	632184	41.330	ng	99
91) Dibenzo(a,h)anthracene	17.098	278	603640	36.157	ng	99
92) Benzo(g,h,i)perylene	17.539	276	580587	34.769	ng	98

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF060625\
Data File : BF142644.D
Acq On : 06 Jun 2025 13:54
Operator : RC/JU
Sample : Q2207-37MS
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
BU-703-COMP-05MS

Quant Time: Jun 06 14:25:49 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 20 16:26:47 2025
Response via : Initial Calibration



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF060625\
Data File : BF142645.D
Acq On : 06 Jun 2025 14:25
Operator : RC/JU
Sample : Q2207-37MSD
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
BU-703-COMP-05MSD

Quant Time: Jun 06 15:01:08 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 20 16:26:47 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.892	152	121107	20.000	ng	-0.01
21) Naphthalene-d8	8.181	136	452734	20.000	ng	0.00
39) Acenaphthene-d10	9.939	164	227605	20.000	ng	0.00
64) Phenanthrene-d10	11.427	188	350996	20.000	ng	0.00
76) Chrysene-d12	14.068	240	216229	20.000	ng	0.00
86) Perylene-d12	15.562	264	267697	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.516	112	538583	74.924	ng	0.00
7) Phenol-d6	6.522	99	738658	85.363	ng	-0.01
23) Nitrobenzene-d5	7.457	82	343873	41.417	ng	-0.02
42) 2,4,6-Tribromophenol	10.727	330	210025	83.141	ng	-0.01
45) 2-Fluorobiphenyl	9.251	172	636592	37.531	ng	-0.02
79) Terphenyl-d14	13.010	244	685957	43.352	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.728	88	117799	40.952	ng	98
3) Pyridine	3.487	79	310697	42.415	ng	99
4) n-Nitrosodimethylamine	3.440	42	156226	41.076	ng	92
6) Aniline	6.557	93	398164	34.221	ng	99
8) 2-Chlorophenol	6.681	128	328000	41.892	ng	100
9) Benzaldehyde	6.445	77	175080	33.640	ng	99
10) Phenol	6.539	94	399941	41.076	ng	99
11) bis(2-Chloroethyl)ether	6.628	93	295054	42.098	ng	99
12) 1,3-Dichlorobenzene	6.834	146	364343	41.702	ng	99
13) 1,4-Dichlorobenzene	6.910	146	364313	41.396	ng	99
14) 1,2-Dichlorobenzene	7.063	146	352132	41.815	ng	99
15) Benzyl Alcohol	7.034	79	259417	40.568	ng	98
16) 2,2'-oxybis(1-Chloropr...	7.169	45	479651	40.752	ng	98
17) 2-Methylphenol	7.145	107	250427	40.966	ng	99
18) Hexachloroethane	7.410	117	127078	41.352	ng	99
19) n-Nitroso-di-n-propyla...	7.304	70	206881	38.577	ng	97
20) 3+4-Methylphenols	7.298	107	301265	38.484	ng	99
22) Acetophenone	7.304	105	406630	40.573	ng	98
24) Nitrobenzene	7.475	77	311851	41.645	ng	100
25) Isophorone	7.716	82	559057	40.274	ng	98
26) 2-Nitrophenol	7.792	139	177383	44.332	ng	96
27) 2,4-Dimethylphenol	7.828	122	290620	41.186	ng	98
28) bis(2-Chloroethoxy)met...	7.928	93	358932	41.392	ng	99
29) 2,4-Dichlorophenol	8.034	162	268153	41.787	ng	100
30) 1,2,4-Trichlorobenzene	8.122	180	295698	42.459	ng	98
31) Naphthalene	8.204	128	927889	41.624	ng	100
32) Benzoic acid	7.939	122	182946	42.592	ng	97
33) 4-Chloroaniline	8.245	127	231659	25.646	ng	98
34) Hexachlorobutadiene	8.316	225	180214	41.443	ng	100
35) Caprolactam	8.616	113	77580	43.046	ng	98
36) 4-Chloro-3-methylphenol	8.728	107	256893	39.063	ng	97
37) 2-Methylnaphthalene	8.892	142	565877	40.349	ng	100
38) 1-Methylnaphthalene	8.992	142	583083	40.194	ng	99
40) 1,2,4,5-Tetrachloroben...	9.057	216	289504	44.310	ng	99
41) Hexachlorocyclopentadiene	9.045	237	355807	80.728	ng	99
43) 2,4,6-Trichlorophenol	9.169	196	186712	42.380	ng	97

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF060625\
Data File : BF142645.D
Acq On : 06 Jun 2025 14:25
Operator : RC/JU
Sample : Q2207-37MSD
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
BU-703-COMP-05MSD

Quant Time: Jun 06 15:01:08 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 20 16:26:47 2025
Response via : Initial Calibration

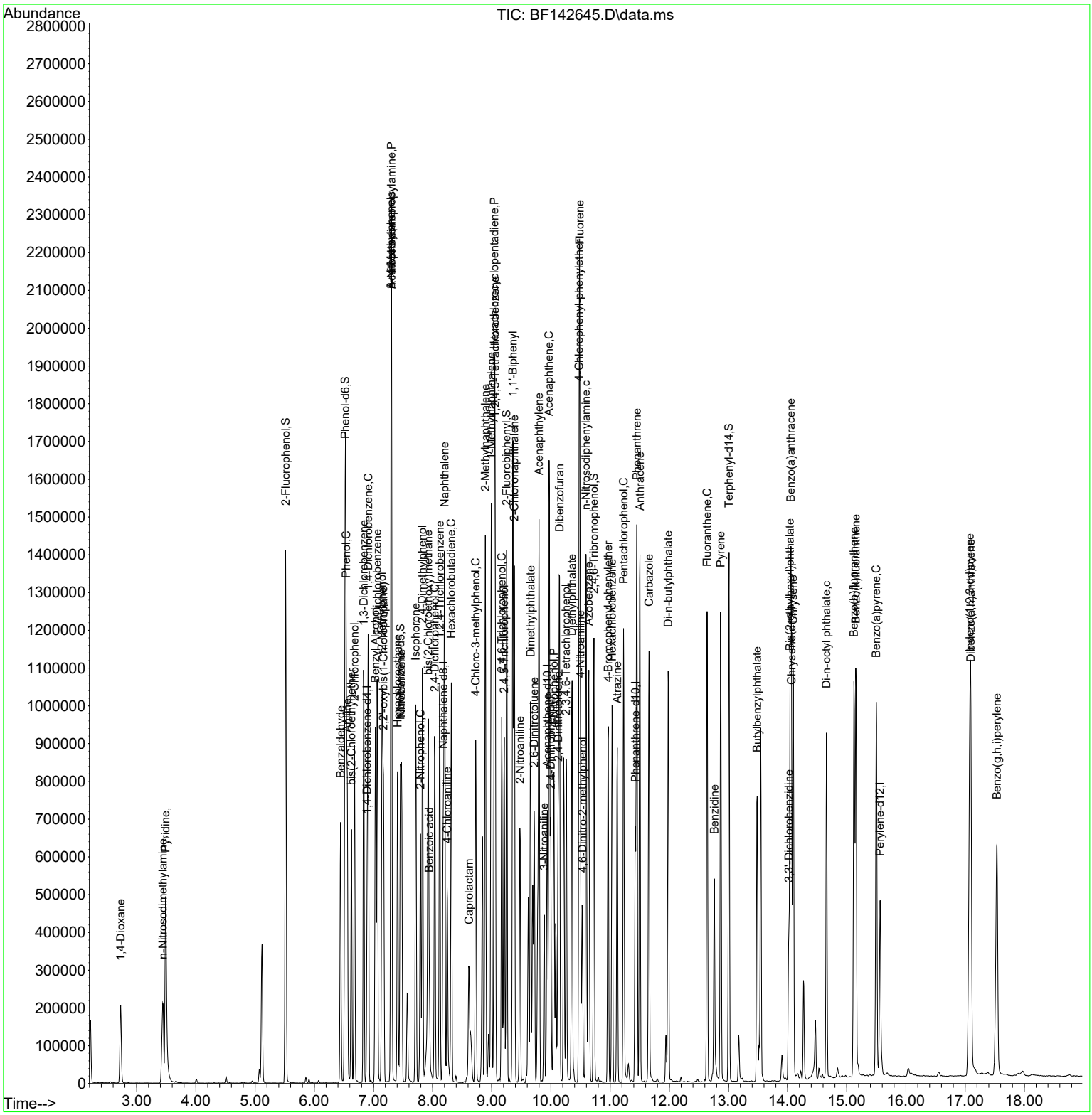
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.210	196	199213	42.874	ng	98
46) 1,1'-Biphenyl	9.357	154	757895	42.921	ng	99
47) 2-Chloronaphthalene	9.380	162	566164	43.396	ng	98
48) 2-Nitroaniline	9.475	65	159341	42.255	ng	100
49) Acenaphthylene	9.798	152	926243	42.045	ng	100
50) Dimethylphthalate	9.657	163	614791	40.937	ng	100
51) 2,6-Dinitrotoluene	9.716	165	137549	42.435	ng	99
52) Acenaphthene	9.969	154	605390	45.004	ng	99
53) 3-Nitroaniline	9.886	138	102466	28.942	ng	98
54) 2,4-Dinitrophenol	9.998	184	144429	86.246	ng	90
55) Dibenzofuran	10.145	168	794689	41.053	ng	98
56) 4-Nitrophenol	10.051	139	211702	81.042	ng	95
57) 2,4-Dinitrotoluene	10.122	165	181053	42.770	ng	100
58) Fluorene	10.486	166	607951	40.653	ng	98
59) 2,3,4,6-Tetrachlorophenol	10.257	232	155189	40.008	ng	98
60) Diethylphthalate	10.357	149	585645	39.928	ng	100
61) 4-Chlorophenyl-phenyle...	10.475	204	290633	39.561	ng	98
62) 4-Nitroaniline	10.498	138	128953	40.161	ng	97
63) Azobenzene	10.639	77	557300	42.303	ng	95
65) 4,6-Dinitro-2-methylph...	10.533	198	91885	46.908	ng	95
66) n-Nitrosodiphenylamine	10.592	169	517778	43.118	ng	100
67) 4-Bromophenyl-phenylether	10.969	248	177137	42.681	ng	97
68) Hexachlorobenzene	11.033	284	195915	42.680	ng	98
69) Atrazine	11.122	200	152901	47.945	ng	100
70) Pentachlorophenol	11.227	266	206695	79.755	ng	99
71) Phenanthrene	11.451	178	794920	42.378	ng	100
72) Anthracene	11.504	178	804063	42.001	ng	100
73) Carbazole	11.657	167	698526	42.681	ng	100
74) Di-n-butylphthalate	11.980	149	810622	45.250	ng	99
75) Fluoranthene	12.639	202	724954	41.361	ng	99
77) Benzidine	12.763	184	335776	41.729	ng	99
78) Pyrene	12.868	202	721346	35.761	ng	100
80) Butylbenzylphthalate	13.486	149	262736	47.139	ng	96
81) Benzo(a)anthracene	14.057	228	592912	41.064	ng	99
82) 3,3'-Dichlorobenzidine	14.021	252	123078	28.104	ng	98
83) Chrysene	14.092	228	569225	43.874	ng	99
84) Bis(2-ethylhexyl)phtha...	14.039	149	354868	49.736	ng	99
85) Di-n-octyl phthalate	14.657	149	630510	45.194	ng	99
87) Indeno(1,2,3-cd)pyrene	17.080	276	765527	38.092	ng	99
88) Benzo(b)fluoranthene	15.121	252	700056	44.186	ng	98
89) Benzo(k)fluoranthene	15.151	252	601557	40.538	ng	98
90) Benzo(a)pyrene	15.498	252	642804	43.043	ng	99
91) Dibenzo(a,h)anthracene	17.098	278	616252	37.808	ng	99
92) Benzo(g,h,i)perylene	17.539	276	597788	36.667	ng	98

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF060625\
Data File : BF142645.D
Acq On : 06 Jun 2025 14:25
Operator : RC/JU
Sample : Q2207-37MSD
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
BU-703-COMP-05MSD

Quant Time: Jun 06 15:01:08 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 20 16:26:47 2025
Response via : Initial Calibration



284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

Manual Integration Report

Sequence:	bf052025	Instrument	BNA_f

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDICC010	BF142469.D	Benzoic acid	Rahul	5/21/2025 2:07:30 PM	Jagrut	5/21/2025 4:43:55 PM	Peak Integrated by Software

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

Manual Integration Report

Sequence:	bf060525	Instrument	BNA_f

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

Manual Integration Report

Sequence:	BF060625	Instrument	BNA_f

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

Manual Integration Report

Sequence:	BF061125	Instrument	BNA_f

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDICC010	BF142714.D	2,3,4,6-Tetrachlorophenol	Rahul	6/11/2025 9:18:06 AM	Jagrut	6/11/2025 9:58:06 AM	Peak Integrated by Software
SSTDICC080	BF142719.D	Caprolactam	Rahul	6/11/2025 9:18:10 AM	Jagrut	6/11/2025 9:58:02 AM	Peak Integrated by Software
PB168285BS	BF142727.D	Caprolactam	anahy	6/12/2025 9:39:49 AM	Jagrut	6/12/2025 11:37:36 AM	Peak Integrated by Software
PB168285BSD	BF142728.D	Caprolactam	anahy	6/12/2025 9:45:24 AM	Jagrut	6/12/2025 11:37:38 AM	Peak Integrated by Software

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

Manual Integration Report

Sequence:	BP060625	Instrument	BNA_p

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDICC005	BP024861.D	2,3,4,6-Tetrachlorophenol	Rahul	6/9/2025 10:51:15 AM	Jagrut	6/9/2025 12:08:47 PM	Peak Integrated by Software
SSTDICC005	BP024861.D	4-Nitroaniline	Rahul	6/9/2025 10:51:15 AM	Jagrut	6/9/2025 12:08:47 PM	Peak Integrated by Software
SSTDICC010	BP024862.D	Benzaldehyde	Rahul	6/9/2025 10:51:18 AM	Jagrut	6/9/2025 12:08:50 PM	Peak Integrated by Software
SSTDICC010	BP024862.D	Benzo(b)fluoranthene	Rahul	6/9/2025 10:51:18 AM	Jagrut	6/9/2025 12:08:50 PM	Peak Integrated by Software
SSTDICC010	BP024862.D	Benzoic acid	Rahul	6/9/2025 10:51:18 AM	Jagrut	6/9/2025 12:08:50 PM	Peak Integrated by Software
SSTDICC020	BP024863.D	Benzaldehyde	Rahul	6/9/2025 10:51:20 AM	Jagrut	6/9/2025 12:08:52 PM	Peak Integrated by Software
SSTDICV040	BP024868.D	Benzaldehyde	Rahul	6/9/2025 10:51:26 AM	Jagrut	6/9/2025 12:08:55 PM	Peak Integrated by Software

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

Manual Integration Report

Sequence:	BP061125	Instrument	BNA_p

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDCCC040	BP024905.D	4-Nitroaniline	anahy	6/12/2025 9:29:15 AM	mohammad	6/13/2025 9:04:12 AM	Peak Integrated by Software
SSTDCCC040	BP024905.D	Indeno(1,2,3-cd)pyrene	anahy	6/12/2025 9:29:15 AM	mohammad	6/13/2025 9:04:12 AM	Peak Integrated by Software
Q2198-03	BP024919.D	Chrysene	anahy	6/12/2025 9:31:01 AM	mohammad	6/13/2025 9:04:12 AM	Peak Integrated by Software

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF052025

Review By	Rahul	Review On	5/21/2025 2:52:20 PM				
Supervise By	Jagrut	Supervise On	5/21/2025 4:44:06 PM				
SubDirectory	BF052025	HP Acquire Method	BNA_F		HP Processing Method	bf052025	

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6784,SP6785,SP6786,SP6787,SP6788,SP6790,SP6789,SP6791
CCC	SP6787
Internal Standard/PEM	S12665,10ul/1000ul sample
ICV/I.BLK	SP6770
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BF142465.D	20 May 2025 11:13	RC/JU	Ok
2	SSTDCCC040	BF142466.D	20 May 2025 11:41	RC/JU	Not Ok
3	SSTDICC2.5	BF142467.D	20 May 2025 12:10	RC/JU	Ok
4	SSTDICC005	BF142468.D	20 May 2025 12:38	RC/JU	Ok
5	SSTDICC010	BF142469.D	20 May 2025 13:07	RC/JU	Ok,M
6	SSTDICC020	BF142470.D	20 May 2025 13:36	RC/JU	Ok
7	SSTDICCC040	BF142471.D	20 May 2025 14:05	RC/JU	Ok
8	SSTDICC050	BF142472.D	20 May 2025 14:34	RC/JU	Ok
9	SSTDICC060	BF142473.D	20 May 2025 15:03	RC/JU	Ok
10	SSTDICC080	BF142474.D	20 May 2025 15:31	RC/JU	Ok
11	SSTDICV040	BF142475.D	20 May 2025 16:31	RC/JU	Ok
12	PB168067TB	BF142476.D	20 May 2025 17:29	RC/JU	Ok

M : Manual Integration

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF060525

Review By	Rahul	Review On	6/6/2025 12:18:39 PM				
Supervise By	Jagrut	Supervise On	6/6/2025 1:17:23 PM				
SubDirectory	BF060525	HP Acquire Method	BNA_F		HP Processing Method	bf052025	

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6784,SP6785,SP6786,SP6787,SP6788,SP6790,SP6789,SP6791
CCC	SP6787
Internal Standard/PEM	S12667,10ul/1000ul sample
ICV/I.BLK	SP6770
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BF142624.D	05 Jun 2025 09:07	RC/JU	Ok
2	SSTDCCC040	BF142625.D	05 Jun 2025 09:37	RC/JU	Ok
3	PB168285BL	BF142626.D	05 Jun 2025 11:04	RC/JU	Ok
4	Q2181-02	BF142627.D	05 Jun 2025 11:35	RC/JU	Ok
5	Q2194-03	BF142628.D	05 Jun 2025 12:08	RC/JU	Ok
6	Q2194-03MS	BF142629.D	05 Jun 2025 12:38	RC/JU	Ok,M
7	Q2194-03MSD	BF142630.D	05 Jun 2025 13:07	RC/JU	Ok,M
8	Q2185-05	BF142631.D	05 Jun 2025 13:37	RC/JU	Ok
9	Q2194-01	BF142632.D	05 Jun 2025 14:07	RC/JU	Ok
10	Q2199-01	BF142633.D	05 Jun 2025 14:37	RC/JU	Ok,M
11	Q2199-03	BF142634.D	05 Jun 2025 15:06	RC/JU	Ok,M
12	Q2199-05	BF142635.D	05 Jun 2025 15:36	RC/JU	Ok,M
13	Q2178-01DL	BF142636.D	05 Jun 2025 16:07	RC/JU	Dilution
14	Q2178-01DL2	BF142637.D	05 Jun 2025 16:38	RC/JU	Ok,M
15	SSTDCCC040	BF142638.D	05 Jun 2025 17:18	RC/JU	Ok

M : Manual Integration

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF060625

Review By	Rahul	Review On	6/9/2025 11:32:18 AM				
Supervise By	Jagrut	Supervise On	6/9/2025 12:07:45 PM				
SubDirectory	BF060625	HP Acquire Method	BNA_F		HP Processing Method	bf052025	

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6784,SP6785,SP6786,SP6787,SP6788,SP6790,SP6789,SP6791
CCC	SP6787
Internal Standard/PEM	S12667,10ul/1000ul sample
ICV/I.BLK	SP6770
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BF142639.D	06 Jun 2025 11:01	RC/JU	Ok
2	SSTDCCC040	BF142640.D	06 Jun 2025 11:36	RC/JU	Ok
3	PB168259BL	BF142641.D	06 Jun 2025 12:06	RC/JU	Ok
4	Q2185-01	BF142642.D	06 Jun 2025 12:54	RC/JU	Ok
5	Q2207-37	BF142643.D	06 Jun 2025 13:24	RC/JU	Ok
6	Q2207-37MS	BF142644.D	06 Jun 2025 13:54	RC/JU	Ok
7	Q2207-37MSD	BF142645.D	06 Jun 2025 14:25	RC/JU	Ok
8	Q2219-01	BF142646.D	06 Jun 2025 14:58	RC/JU	Ok,M
9	Q2214-01	BF142647.D	06 Jun 2025 15:29	RC/JU	Ok
10	Q2208-19	BF142648.D	06 Jun 2025 16:00	RC/JU	Ok
11	Q2207-28	BF142649.D	06 Jun 2025 16:30	RC/JU	Ok
12	Q2176-07	BF142650.D	06 Jun 2025 17:01	RC/JU	Ok
13	Q2198-01	BF142651.D	06 Jun 2025 17:31	RC/JU	Ok
14	Q2177-04	BF142652.D	06 Jun 2025 18:01	RC/JU	Ok
15	Q2198-05	BF142653.D	06 Jun 2025 18:31	RC/JU	Ok
16	Q2207-10	BF142654.D	06 Jun 2025 19:02	RC/JU	Ok
17	Q2207-19	BF142655.D	06 Jun 2025 19:32	RC/JU	Ok
18	Q2208-10	BF142656.D	06 Jun 2025 20:02	RC/JU	Ok
19	Q2208-01	BF142657.D	06 Jun 2025 20:32	RC/JU	Ok
20	Q2177-08	BF142658.D	06 Jun 2025 21:02	RC/JU	Ok
21	Q2242-01	BF142659.D	06 Jun 2025 21:32	RC/JU	Ok

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF060625

Review By	Rahul	Review On	6/9/2025 11:32:18 AM				
Supervise By	Jagrut	Supervise On	6/9/2025 12:07:45 PM				
SubDirectory	BF060625	HP Acquire Method	BNA_F		HP Processing Method	bf052025	

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6784,SP6785,SP6786,SP6787,SP6788,SP6790,SP6789,SP6791
CCC	SP6787
Internal Standard/PEM	S12667,10ul/1000ul sample
ICV/I.BLK	SP6770
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	Q2202-03	BF142660.D	06 Jun 2025 22:01	RC/JU	Dilution
23	Q2176-01	BF142661.D	06 Jun 2025 22:31	RC/JU	Ok
24	Q2208-28	BF142662.D	06 Jun 2025 23:01	RC/JU	Ok
25	DFTPP	BF142663.D	07 Jun 2025 00:32	RC/JU	Ok
26	SSTDCCC040	BF142664.D	07 Jun 2025 01:38	RC/JU	Ok
27	PB168300BL	BF142665.D	07 Jun 2025 02:08	RC/JU	Not Ok
28	PB168300BS	BF142666.D	07 Jun 2025 02:38	RC/JU	Not Ok
29	Q2226-01	BF142667.D	07 Jun 2025 03:08	RC/JU	ReRun
30	Q2207-01	BF142668.D	07 Jun 2025 03:38	RC/JU	ReRun
31	Q2198-03	BF142669.D	07 Jun 2025 04:08	RC/JU	ReRun
32	Q2176-03	BF142670.D	07 Jun 2025 04:38	RC/JU	ReRun
33	Q2176-05	BF142671.D	07 Jun 2025 05:07	RC/JU	ReRun
34	Q2125-07	BF142672.D	07 Jun 2025 05:36	RC/JU	ReRun
35	Q2176-02	BF142673.D	07 Jun 2025 06:05	RC/JU	ReRun
36	Q2227-01	BF142674.D	07 Jun 2025 06:35	RC/JU	ReRun
37	Q2228-01	BF142675.D	07 Jun 2025 07:03	RC/JU	ReRun
38	Q2241-01	BF142676.D	07 Jun 2025 07:32	RC/JU	ReRun
39	Q2241-05	BF142677.D	07 Jun 2025 08:02	RC/JU	ReRun
40	Q2244-01	BF142678.D	07 Jun 2025 08:31	RC/JU	ReRun
41	Q2244-01MS	BF142679.D	07 Jun 2025 09:00	RC/JU	Not Ok
42	Q2244-01MSD	BF142680.D	07 Jun 2025 09:29	RC/JU	Not Ok
43	Q2223-01	BF142681.D	07 Jun 2025 09:58	RC/JU	ReRun
44	Q2223-03	BF142682.D	07 Jun 2025 10:27	RC/JU	ReRun

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF060625

Review By	Rahul	Review On	6/9/2025 11:32:18 AM				
Supervise By	Jagrut	Supervise On	6/9/2025 12:07:45 PM				
SubDirectory	BF060625	HP Acquire Method	BNA_F		HP Processing Method	bf052025	

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6784,SP6785,SP6786,SP6787,SP6788,SP6790,SP6789,SP6791
CCC	SP6787
Internal Standard/PEM	S12667,10ul/1000ul sample
ICV/I.BLK	SP6770
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

45	Q2224-01	BF142683.D	07 Jun 2025 10:57	RC/JU	ReRun
46	Q2225-01	BF142684.D	07 Jun 2025 11:26	RC/JU	ReRun
47	Q2206-01	BF142685.D	07 Jun 2025 11:54	RC/JU	ReRun
48	Q2195-01	BF142686.D	07 Jun 2025 12:23	RC/JU	ReRun

M : Manual Integration

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF061125

Review By	Rahul	Review On	6/11/2025 9:54:45 AM		
Supervise By	Jagrut	Supervise On	6/11/2025 9:58:22 AM		
SubDirectory	BF061125	HP Acquire Method	BNA_F	HP Processing Method	BF061125

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6784,SP6785,SP6786,SP6787,SP6788,SP6790,SP6789,SP6791
CCC	SP6787
Internal Standard/PEM	S12668,10ul/1000ul sample
ICV/I.BLK	SP6770
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BF142710.D	10 Jun 2025 15:42	RC/JU	Ok
2	SSTDCCC040	BF142711.D	10 Jun 2025 16:11	RC/JU	Not Ok
3	SSTDICC2.5	BF142712.D	10 Jun 2025 16:54	RC/JU	Ok
4	SSTDICC005	BF142713.D	10 Jun 2025 17:24	RC/JU	Ok
5	SSTDICC010	BF142714.D	10 Jun 2025 17:53	RC/JU	Ok,M
6	SSTDICC020	BF142715.D	10 Jun 2025 18:22	RC/JU	Ok
7	SSTDICCC040	BF142716.D	10 Jun 2025 18:52	RC/JU	Ok
8	SSTDICC050	BF142717.D	10 Jun 2025 19:21	RC/JU	Ok
9	SSTDICC060	BF142718.D	10 Jun 2025 19:50	RC/JU	Ok
10	SSTDICC080	BF142719.D	10 Jun 2025 20:19	RC/JU	Ok,M
11	SSTDICV040	BF142720.D	10 Jun 2025 20:49	RC/JU	Ok
12	PB168323BL	BF142721.D	10 Jun 2025 21:47	RC/JU	Ok
13	DFTPP	BF142722.D	11 Jun 2025 08:56	RC/JU	Ok
14	SSTDCCC040	BF142723.D	11 Jun 2025 09:24	RC/JU	Ok
15	PB168376BL	BF142724.D	11 Jun 2025 09:53	RC/JU	Ok
16	PB168376BS	BF142725.D	11 Jun 2025 10:22	RC/JU	Ok,M
17	PB168234BS	BF142726.D	11 Jun 2025 10:51	RC/JU	Ok,M
18	PB168285BS	BF142727.D	11 Jun 2025 11:21	RC/JU	Ok,M
19	PB168285BSD	BF142728.D	11 Jun 2025 11:50	RC/JU	Ok,M
20	PB168378BS	BF142729.D	11 Jun 2025 12:19	RC/JU	Ok,M
21	PB168378BSD	BF142730.D	11 Jun 2025 12:49	RC/JU	Ok,M

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF061125

Review By	Rahul	Review On	6/11/2025 9:54:45 AM		
Supervise By	Jagrut	Supervise On	6/11/2025 9:58:22 AM		
SubDirectory	BF061125	HP Acquire Method	BNA_F	HP Processing Method	BF061125

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6784,SP6785,SP6786,SP6787,SP6788,SP6790,SP6789,SP6791
CCC	SP6787
Internal Standard/PEM	S12668,10ul/1000ul sample
ICV/I.BLK	SP6770
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	PB168378BL	BF142731.D	11 Jun 2025 13:18	RC/JU	Ok
23	Q2264-04	BF142732.D	11 Jun 2025 13:52	RC/JU	Ok
24	Q2268-10	BF142733.D	11 Jun 2025 14:21	RC/JU	Ok
25	Q2268-03	BF142734.D	11 Jun 2025 14:50	RC/JU	Dilution
26	Q2268-04MS	BF142735.D	11 Jun 2025 15:20	RC/JU	Ok,M
27	Q2268-05MSD	BF142736.D	11 Jun 2025 15:50	RC/JU	Ok
28	Q2268-06	BF142737.D	11 Jun 2025 16:19	RC/JU	Dilution
29	Q2268-07	BF142738.D	11 Jun 2025 16:49	RC/JU	Dilution
30	Q2268-08	BF142739.D	11 Jun 2025 17:19	RC/JU	Dilution
31	Q2273-01	BF142740.D	11 Jun 2025 17:49	RC/JU	Ok
32	Q2273-05	BF142741.D	11 Jun 2025 18:18	RC/JU	Ok
33	Q2273-05MS	BF142742.D	11 Jun 2025 18:48	RC/JU	Ok
34	Q2273-05MSD	BF142743.D	11 Jun 2025 19:18	RC/JU	Ok
35	Q2268-03DL	BF142744.D	11 Jun 2025 19:48	RC/JU	Ok
36	Q2268-03	BF142745.D	11 Jun 2025 20:17	RC/JU	Not Ok
37	Q2280-01	BF142746.D	11 Jun 2025 20:47	RC/JU	ReRun

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Instrument ID: BNA_P

Daily Analysis Runlog For Sequence/QCBatch ID # BP060625

Review By	Rahul	Review On	6/9/2025 11:36:10 AM		
Supervise By	Jagrut	Supervise On	6/9/2025 12:09:52 PM		
SubDirectory	BP060625	HP Acquire Method	BNA_P	HP Processing Method	BP060625

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6784,SP6785,SP6786,SP6787,SP6788,SP6790,SP6789,SP6791
CCC	SP6787
Internal Standard/PEM	S12667,10ul/1000ul sample
ICV/I.BLK	SP6796
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BP024859.D	06 Jun 2025 09:49	RC/JU	Ok
2	SSTDICC2.5	BP024860.D	06 Jun 2025 10:30	RC/JU	Ok
3	SSTDICC005	BP024861.D	06 Jun 2025 11:11	RC/JU	Ok,M
4	SSTDICC010	BP024862.D	06 Jun 2025 11:52	RC/JU	Ok,M
5	SSTDICC020	BP024863.D	06 Jun 2025 12:33	RC/JU	Ok,M
6	SSTDICCC040	BP024864.D	06 Jun 2025 13:14	RC/JU	Ok
7	SSTDICC050	BP024865.D	06 Jun 2025 13:56	RC/JU	Ok
8	SSTDICC060	BP024866.D	06 Jun 2025 14:37	RC/JU	Ok
9	SSTDICC080	BP024867.D	06 Jun 2025 15:18	RC/JU	Ok
10	SSTDICV040	BP024868.D	06 Jun 2025 17:09	RC/JU	Ok,M
11	PB168259BL	BP024869.D	06 Jun 2025 17:50	RC/JU	Ok

M : Manual Integration

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Instrument ID: BNA_P

Daily Analysis Runlog For Sequence/QCBatch ID # BP061125

Review By	anahy	Review On	6/12/2025 9:31:34 AM				
Supervise By	mohammad	Supervise On	6/13/2025 9:04:12 AM				
SubDirectory	BP061125	HP Acquire Method	BNA_P		HP Processing Method	BP060625	

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6784,SP6785,SP6786,SP6787,SP6788,SP6790,SP6789,SP6791
CCC	SP6787
Internal Standard/PEM	S12668,10ul/1000ul sample
ICV/I.BLK	SP6796
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BP024904.D	11 Jun 2025 09:29	RC/JU	Ok
2	SSTDCCC040	BP024905.D	11 Jun 2025 10:09	RC/JU	Ok,M
3	PB168300BL	BP024906.D	11 Jun 2025 10:50	RC/JU	Ok
4	PB168300BS	BP024907.D	11 Jun 2025 11:31	RC/JU	Ok
5	Q2176-03	BP024908.D	11 Jun 2025 12:18	RC/JU	Ok
6	Q2176-05	BP024909.D	11 Jun 2025 12:59	RC/JU	Ok
7	Q2207-01	BP024910.D	11 Jun 2025 13:40	RC/JU	Ok
8	Q2227-01	BP024911.D	11 Jun 2025 14:21	RC/JU	Ok
9	Q2228-01	BP024912.D	11 Jun 2025 15:02	RC/JU	Ok
10	Q2226-01	BP024913.D	11 Jun 2025 15:43	RC/JU	Ok
11	Q2244-01	BP024914.D	11 Jun 2025 16:24	RC/JU	Ok
12	Q2244-01MS	BP024915.D	11 Jun 2025 17:05	RC/JU	Ok
13	Q2244-01MSD	BP024916.D	11 Jun 2025 17:46	RC/JU	Ok
14	Q2177-02DL	BP024917.D	11 Jun 2025 18:27	RC/JU	Ok,M
15	Q2241-01	BP024918.D	11 Jun 2025 19:08	RC/JU	Ok
16	Q2198-03	BP024919.D	11 Jun 2025 19:49	RC/JU	Ok,M
17	Q2125-07	BP024920.D	11 Jun 2025 20:30	RC/JU	Ok
18	Q2241-05	BP024921.D	11 Jun 2025 21:11	RC/JU	Ok

M : Manual Integration

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF052025

Review By	Rahul	Review On	5/21/2025 2:52:20 PM		
Supervise By	Jagrut	Supervise On	5/21/2025 4:44:06 PM		
SubDirectory	BF052025	HP Acquire Method	BNA_F	HP Processing Method	bf052025

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6784,SP6785,SP6786,SP6787,SP6788,SP6790,SP6789,SP6791
CCC	SP6787
Internal Standard/PEM	S12665,10ul/1000ul sample
ICV/I.BLK	SP6770
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BF142465.D	20 May 2025 11:13		RC/JU	Ok
2	SSTDCCC040	SSTDCCC040	BF142466.D	20 May 2025 11:41	Fresh Calibration Required	RC/JU	Not Ok
3	SSTDICC2.5	SSTDICC2.5	BF142467.D	20 May 2025 12:10		RC/JU	Ok
4	SSTDICC005	SSTDICC005	BF142468.D	20 May 2025 12:38	Compound #32,54,85 removed from 5ppm	RC/JU	Ok
5	SSTDICC010	SSTDICC010	BF142469.D	20 May 2025 13:07		RC/JU	Ok,M
6	SSTDICC020	SSTDICC020	BF142470.D	20 May 2025 13:36		RC/JU	Ok
7	SSTDICCC040	SSTDICCC040	BF142471.D	20 May 2025 14:05	This calibration is good for both the methods, 8270E DOD and 625.1.	RC/JU	Ok
8	SSTDICC050	SSTDICC050	BF142472.D	20 May 2025 14:34		RC/JU	Ok
9	SSTDICC060	SSTDICC060	BF142473.D	20 May 2025 15:03		RC/JU	Ok
10	SSTDICC080	SSTDICC080	BF142474.D	20 May 2025 15:31		RC/JU	Ok
11	SSTDICV040	ICVBF052025	BF142475.D	20 May 2025 16:31		RC/JU	Ok
12	PB168067TB	PB168067TB	BF142476.D	20 May 2025 17:29		RC/JU	Ok

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF060525

Review By	Rahul	Review On	6/6/2025 12:18:39 PM		
Supervise By	Jagrut	Supervise On	6/6/2025 1:17:23 PM		
SubDirectory	BF060525	HP Acquire Method	BNA_F	HP Processing Method	bf052025

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6784,SP6785,SP6786,SP6787,SP6788,SP6790,SP6789,SP6791
CCC	SP6787
Internal Standard/PEM	S12667,10ul/1000ul sample
ICV/I.BLK	SP6770
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BF142624.D	05 Jun 2025 09:07		RC/JU	Ok
2	SSTDCCC040	SSTDCCC040	BF142625.D	05 Jun 2025 09:37		RC/JU	Ok
3	PB168285BL	PB168285BL	BF142626.D	05 Jun 2025 11:04		RC/JU	Ok
4	Q2181-02	38073-032124	BF142627.D	05 Jun 2025 11:35	PT Sample	RC/JU	Ok
5	Q2194-03	COMP-13	BF142628.D	05 Jun 2025 12:08		RC/JU	Ok
6	Q2194-03MS	COMP-13MS	BF142629.D	05 Jun 2025 12:38		RC/JU	Ok,M
7	Q2194-03MSD	COMP-13MSD	BF142630.D	05 Jun 2025 13:07		RC/JU	Ok,M
8	Q2185-05	TP01-MHA-WC	BF142631.D	05 Jun 2025 13:37		RC/JU	Ok
9	Q2194-01	COMP-12	BF142632.D	05 Jun 2025 14:07		RC/JU	Ok
10	Q2199-01	ETGI-343	BF142633.D	05 Jun 2025 14:37		RC/JU	Ok,M
11	Q2199-03	VNJ-231	BF142634.D	05 Jun 2025 15:06		RC/JU	Ok,M
12	Q2199-05	72-11978	BF142635.D	05 Jun 2025 15:36		RC/JU	Ok,M
13	Q2178-01DL	RT2929DL	BF142636.D	05 Jun 2025 16:07	Internal Standard Fail, Need furthed 2X dilution	RC/JU	Dilution
14	Q2178-01DL2	RT2929DL2	BF142637.D	05 Jun 2025 16:38	Internal Standard Fail	RC/JU	Ok,M
15	SSTDCCC040	SSTDCCC040EC	BF142638.D	05 Jun 2025 17:18		RC/JU	Ok

M : Manual Integration

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF060625

Review By	Rahul	Review On	6/9/2025 11:32:18 AM		
Supervise By	Jagrut	Supervise On	6/9/2025 12:07:45 PM		
SubDirectory	BF060625	HP Acquire Method	BNA_F	HP Processing Method	bf052025

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6784,SP6785,SP6786,SP6787,SP6788,SP6790,SP6789,SP6791
CCC	SP6787
Internal Standard/PEM	S12667,10ul/1000ul sample
ICV/I.BLK	SP6770
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BF142639.D	06 Jun 2025 11:01		RC/JU	Ok
2	SSTDCCC040	SSTDCCC040	BF142640.D	06 Jun 2025 11:36		RC/JU	Ok
3	PB168259BL	PB168259BL	BF142641.D	06 Jun 2025 12:06		RC/JU	Ok
4	Q2185-01	TP02-MHB-WC	BF142642.D	06 Jun 2025 12:54		RC/JU	Ok
5	Q2207-37	BU-703-COMP-05	BF142643.D	06 Jun 2025 13:24		RC/JU	Ok
6	Q2207-37MS	BU-703-COMP-05MS	BF142644.D	06 Jun 2025 13:54		RC/JU	Ok
7	Q2207-37MSD	BU-703-COMP-05MSD	BF142645.D	06 Jun 2025 14:25		RC/JU	Ok
8	Q2219-01	72-11995	BF142646.D	06 Jun 2025 14:58		RC/JU	Ok,M
9	Q2214-01	RBR251425	BF142647.D	06 Jun 2025 15:29		RC/JU	Ok
10	Q2208-19	BU-703-COMP-08	BF142648.D	06 Jun 2025 16:00		RC/JU	Ok
11	Q2207-28	BU-703-COMP-04	BF142649.D	06 Jun 2025 16:30		RC/JU	Ok
12	Q2176-07	TP-31	BF142650.D	06 Jun 2025 17:01		RC/JU	Ok
13	Q2198-01	B-202-SB02	BF142651.D	06 Jun 2025 17:31		RC/JU	Ok
14	Q2177-04	B-187-SB02	BF142652.D	06 Jun 2025 18:01		RC/JU	Ok
15	Q2198-05	B-202-GW01	BF142653.D	06 Jun 2025 18:31		RC/JU	Ok
16	Q2207-10	BU-703-COMP-02	BF142654.D	06 Jun 2025 19:02		RC/JU	Ok
17	Q2207-19	BU-703-COMP-03	BF142655.D	06 Jun 2025 19:32		RC/JU	Ok
18	Q2208-10	BU-703-COMP-07	BF142656.D	06 Jun 2025 20:02		RC/JU	Ok

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF060625

Review By	Rahul	Review On	6/9/2025 11:32:18 AM		
Supervise By	Jagrut	Supervise On	6/9/2025 12:07:45 PM		
SubDirectory	BF060625	HP Acquire Method	BNA_F	HP Processing Method	bf052025

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6784,SP6785,SP6786,SP6787,SP6788,SP6790,SP6789,SP6791
CCC	SP6787
Internal Standard/PEM	S12667,10ul/1000ul sample
ICV/I.BLK	SP6770
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	Q2208-01	BU-703-COMP-06	BF142657.D	06 Jun 2025 20:32		RC/JU	Ok
20	Q2177-08	EB05312025	BF142658.D	06 Jun 2025 21:02		RC/JU	Ok
21	Q2242-01	TP09-MHJ	BF142659.D	06 Jun 2025 21:32		RC/JU	Ok
22	Q2202-03	MW-12-20250603	BF142660.D	06 Jun 2025 22:01	Need 10X Dilution	RC/JU	Dilution
23	Q2176-01	TP-46	BF142661.D	06 Jun 2025 22:31		RC/JU	Ok
24	Q2208-28	BU-703-COMP-09	BF142662.D	06 Jun 2025 23:01		RC/JU	Ok
25	DFTPP	DFTPP	BF142663.D	07 Jun 2025 00:32		RC/JU	Ok
26	SSTDCCC040	SSTDCCC040	BF142664.D	07 Jun 2025 01:38	CCC fail high for compounds #41,54,56,70,84 and failed low for compounds # 78,79,87,91,92.	RC/JU	Ok
27	PB168300BL	PB168300BL	BF142665.D	07 Jun 2025 02:08	CCC fail low for compound # 78,79,87,91,92.	RC/JU	Not Ok
28	PB168300BS	PB168300BS	BF142666.D	07 Jun 2025 02:38	CCC fail low for compound # 78,79,87,91,92. Also #92 Recovery fail low side.	RC/JU	Not Ok
29	Q2226-01	TP06-MHI-WC	BF142667.D	07 Jun 2025 03:08	CCC fail low for compound # 78,79,87,91,92.	RC/JU	ReRun
30	Q2207-01	BU-703-COMP-01	BF142668.D	07 Jun 2025 03:38	CCC fail low for compound # 78,79,87,91,92.	RC/JU	ReRun
31	Q2198-03	B-207-SB02	BF142669.D	07 Jun 2025 04:08	CCC fail low for compound # 78,79,87,91,92.	RC/JU	ReRun
32	Q2176-03	TP-25	BF142670.D	07 Jun 2025 04:38	CCC fail low for compound # 78,79,87,91,92.	RC/JU	ReRun
33	Q2176-05	TP-28	BF142671.D	07 Jun 2025 05:07	CCC fail low for compound # 78,79,87,91,92.	RC/JU	ReRun
34	Q2125-07	GSB3	BF142672.D	07 Jun 2025 05:36	CCC fail low for compound #79	RC/JU	ReRun

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF060625

Review By	Rahul	Review On	6/9/2025 11:32:18 AM		
Supervise By	Jagrut	Supervise On	6/9/2025 12:07:45 PM		
SubDirectory	BF060625	HP Acquire Method	BNA_F	HP Processing Method	bf052025

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6784,SP6785,SP6786,SP6787,SP6788,SP6790,SP6789,SP6791
CCC	SP6787
Internal Standard/PEM	S12667,10ul/1000ul sample
ICV/I.BLK	SP6770
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

35	Q2176-02	TP-56	BF142673.D	07 Jun 2025 06:05	CCC fail low for compound # 78,79,87,91,92.	RC/JU	ReRun
36	Q2227-01	TP07-MHH-WC	BF142674.D	07 Jun 2025 06:35	CCC fail low for compound # 78,79,87,91,92.	RC/JU	ReRun
37	Q2228-01	TP08-MHI-WC	BF142675.D	07 Jun 2025 07:03	CCC fail low for compound # 78,79,87,91,92.	RC/JU	ReRun
38	Q2241-01	TP-N	BF142676.D	07 Jun 2025 07:32	CCC fail low for compound # 78,79,87,91,92.	RC/JU	ReRun
39	Q2241-05	TP-S	BF142677.D	07 Jun 2025 08:02	CCC fail low for compound # 78,79,87,91,92.	RC/JU	ReRun
40	Q2244-01	TP03-MHC	BF142678.D	07 Jun 2025 08:31	CCC fail low for compound # 78,79,87,91,92.	RC/JU	ReRun
41	Q2244-01MS	TP03-MHCMS	BF142679.D	07 Jun 2025 09:00	CCC fail low for compound # 78,79,87,91,92.	RC/JU	Not Ok
42	Q2244-01MSD	TP03-MHCMSD	BF142680.D	07 Jun 2025 09:29	CCC fail low for compound # 78,79,87,91,92.	RC/JU	Not Ok
43	Q2223-01	HR-01-06042025	BF142681.D	07 Jun 2025 09:58	CCC fail low for compound # 78,79,87,91,92. Need Straight Run	RC/JU	ReRun
44	Q2223-03	HR-04-06042025	BF142682.D	07 Jun 2025 10:27	CCC fail low for compound # 78,79,87,91,92. Need Straight Run	RC/JU	ReRun
45	Q2224-01	EO-01-06042025	BF142683.D	07 Jun 2025 10:57	CCC fail low for compound # 78,79,87,91,92.	RC/JU	ReRun
46	Q2225-01	SU-03-06042025	BF142684.D	07 Jun 2025 11:26	CCC fail low for compound # 78,79,87,91,92. Internal Standard Fail	RC/JU	ReRun
47	Q2206-01	TP-1	BF142685.D	07 Jun 2025 11:54	CCC fail low for compound # 78,79,87,91,92. Need Straight Run	RC/JU	ReRun
48	Q2195-01	OK-01-060325	BF142686.D	07 Jun 2025 12:23	CCC fail low for compound # 78,79,87,91,92. Internal Standard Fail	RC/JU	ReRun

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF060625

Review By	Rahul	Review On	6/9/2025 11:32:18 AM		
Supervise By	Jagrut	Supervise On	6/9/2025 12:07:45 PM		
SubDirectory	BF060625	HP Acquire Method	BNA_F	HP Processing Method	bf052025

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6784,SP6785,SP6786,SP6787,SP6788,SP6790,SP6789,SP6791
CCC	SP6787
Internal Standard/PEM	S12667,10ul/1000ul sample
ICV/I.BLK	SP6770
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

M : Manual Integration

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF061125

Review By	Rahul	Review On	6/11/2025 9:54:45 AM		
Supervise By	Jagrut	Supervise On	6/11/2025 9:58:22 AM		
SubDirectory	BF061125	HP Acquire Method	BNA_F	HP Processing Method	BF061125

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6784,SP6785,SP6786,SP6787,SP6788,SP6790,SP6789,SP6791
CCC	SP6787
Internal Standard/PEM	S12668,10ul/1000ul sample
ICV/I.BLK	SP6770
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BF142710.D	10 Jun 2025 15:42		RC/JU	Ok
2	SSTDCCC040	SSTDCCC040	BF142711.D	10 Jun 2025 16:11	A Fresh Calibration is required.	RC/JU	Not Ok
3	SSTDICC2.5	SSTDICC2.5	BF142712.D	10 Jun 2025 16:54		RC/JU	Ok
4	SSTDICC005	SSTDICC005	BF142713.D	10 Jun 2025 17:24		RC/JU	Ok
5	SSTDICC010	SSTDICC010	BF142714.D	10 Jun 2025 17:53		RC/JU	Ok,M
6	SSTDICC020	SSTDICC020	BF142715.D	10 Jun 2025 18:22		RC/JU	Ok
7	SSTDICCC040	SSTDICCC040	BF142716.D	10 Jun 2025 18:52	Calibration is Good for 8270 E, 8270 DOD and 625.1 methods.	RC/JU	Ok
8	SSTDICC050	SSTDICC050	BF142717.D	10 Jun 2025 19:21		RC/JU	Ok
9	SSTDICC060	SSTDICC060	BF142718.D	10 Jun 2025 19:50		RC/JU	Ok
10	SSTDICC080	SSTDICC080	BF142719.D	10 Jun 2025 20:19	Compound #09 removed from 80 PPM.	RC/JU	Ok,M
11	SSTDICV040	ICVBF061125	BF142720.D	10 Jun 2025 20:49		RC/JU	Ok
12	PB168323BL	PB168323BL	BF142721.D	10 Jun 2025 21:47		RC/JU	Ok
13	DFTPP	DFTPP	BF142722.D	11 Jun 2025 08:56		RC/JU	Ok
14	SSTDCCC040	SSTDCCC040	BF142723.D	11 Jun 2025 09:24		RC/JU	Ok
15	PB168376BL	PB168376BL	BF142724.D	11 Jun 2025 09:53		RC/JU	Ok
16	PB168376BS	PB168376BS	BF142725.D	11 Jun 2025 10:22		RC/JU	Ok,M
17	PB168234BS	PB168234BS	BF142726.D	11 Jun 2025 10:51		RC/JU	Ok,M

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF061125

Review By	Rahul	Review On	6/11/2025 9:54:45 AM		
Supervise By	Jagrut	Supervise On	6/11/2025 9:58:22 AM		
SubDirectory	BF061125	HP Acquire Method	BNA_F	HP Processing Method	BF061125

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6784,SP6785,SP6786,SP6787,SP6788,SP6790,SP6789,SP6791
CCC	SP6787
Internal Standard/PEM	S12668,10ul/1000ul sample
ICV/I.BLK	SP6770
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

18	PB168285BS	PB168285BS	BF142727.D	11 Jun 2025 11:21		RC/JU	Ok,M
19	PB168285BSD	PB168285BSD	BF142728.D	11 Jun 2025 11:50		RC/JU	Ok,M
20	PB168378BS	PB168378BS	BF142729.D	11 Jun 2025 12:19		RC/JU	Ok,M
21	PB168378BSD	PB168378BSD	BF142730.D	11 Jun 2025 12:49		RC/JU	Ok,M
22	PB168378BL	PB168378BL	BF142731.D	11 Jun 2025 13:18		RC/JU	Ok
23	Q2264-04	EF-WW	BF142732.D	11 Jun 2025 13:52	Surrogate and Internal Standard Failed	RC/JU	Ok
24	Q2268-10	FB-20250605	BF142733.D	11 Jun 2025 14:21		RC/JU	Ok
25	Q2268-03	MW-2-20250605	BF142734.D	11 Jun 2025 14:50	Need 2X Dilution	RC/JU	Dilution
26	Q2268-04MS	MW-2-20250605MS	BF142735.D	11 Jun 2025 15:20		RC/JU	Ok,M
27	Q2268-05MSD	MW-2-20250605MSD	BF142736.D	11 Jun 2025 15:50		RC/JU	Ok
28	Q2268-06	MW-2-20250605-A	BF142737.D	11 Jun 2025 16:19	Need 2X Dilution	RC/JU	Dilution
29	Q2268-07	MW-6-20250605	BF142738.D	11 Jun 2025 16:49	Internal Standard Fail, Need 2X Dilution	RC/JU	Dilution
30	Q2268-08	MW-3-20250605	BF142739.D	11 Jun 2025 17:19	Internal Standard Fail, Need 2X Dilution	RC/JU	Dilution
31	Q2273-01	WC-4	BF142740.D	11 Jun 2025 17:49		RC/JU	Ok
32	Q2273-05	WC-6	BF142741.D	11 Jun 2025 18:18		RC/JU	Ok
33	Q2273-05MS	WC-6MS	BF142742.D	11 Jun 2025 18:48		RC/JU	Ok
34	Q2273-05MSD	WC-6MSD	BF142743.D	11 Jun 2025 19:18		RC/JU	Ok
35	Q2268-03DL	MW-2-20250605DL	BF142744.D	11 Jun 2025 19:48		RC/JU	Ok

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF061125

Review By	Rahul	Review On	6/11/2025 9:54:45 AM		
Supervise By	Jagrut	Supervise On	6/11/2025 9:58:22 AM		
SubDirectory	BF061125	HP Acquire Method	BNA_F	HP Processing Method	BF061125

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6784,SP6785,SP6786,SP6787,SP6788,SP6790,SP6789,SP6791
CCC	SP6787
Internal Standard/PEM	S12668,10ul/1000ul sample
ICV/I.BLK	SP6770
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

36	Q2268-03	MW-2-20250605	BF142745.D	11 Jun 2025 20:17	Already analyzed with OK status	RC/JU	Not Ok
37	Q2280-01	VNJ-210	BF142746.D	11 Jun 2025 20:47	Internal standard fail	RC/JU	ReRun

M : Manual Integration

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Instrument ID: BNA_P

Daily Analysis Runlog For Sequence/QCBatch ID # BP060625

Review By	Rahul	Review On	6/9/2025 11:36:10 AM		
Supervise By	Jagrut	Supervise On	6/9/2025 12:09:52 PM		
SubDirectory	BP060625	HP Acquire Method	BNA_P	HP Processing Method	BP060625

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6784,SP6785,SP6786,SP6787,SP6788,SP6790,SP6789,SP6791
CCC	SP6787
Internal Standard/PEM	S12667,10ul/1000ul sample
ICV/I.BLK	SP6796
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BP024859.D	06 Jun 2025 09:49		RC/JU	Ok
2	SSTDICC2.5	SSTDICC2.5	BP024860.D	06 Jun 2025 10:30		RC/JU	Ok
3	SSTDICC005	SSTDICC005	BP024861.D	06 Jun 2025 11:11		RC/JU	Ok,M
4	SSTDICC010	SSTDICC010	BP024862.D	06 Jun 2025 11:52		RC/JU	Ok,M
5	SSTDICC020	SSTDICC020	BP024863.D	06 Jun 2025 12:33	Calibration is Good for 8270 E, 8270 DOD and 625.1 methods.	RC/JU	Ok,M
6	SSTDICCC040	SSTDICCC040	BP024864.D	06 Jun 2025 13:14	Compound#54 & 56 are Kept on LR	RC/JU	Ok
7	SSTDICC050	SSTDICC050	BP024865.D	06 Jun 2025 13:56		RC/JU	Ok
8	SSTDICC060	SSTDICC060	BP024866.D	06 Jun 2025 14:37		RC/JU	Ok
9	SSTDICC080	SSTDICC080	BP024867.D	06 Jun 2025 15:18		RC/JU	Ok
10	SSTDICV040	ICVBP060625	BP024868.D	06 Jun 2025 17:09		RC/JU	Ok,M
11	PB168259BL	PB168259BL	BP024869.D	06 Jun 2025 17:50		RC/JU	Ok

M : Manual Integration

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Instrument ID: BNA_P

Daily Analysis Runlog For Sequence/QCBatch ID # BP061125

Review By	anahy	Review On	6/12/2025 9:31:34 AM		
Supervise By	mohammad	Supervise On	6/13/2025 9:04:12 AM		
SubDirectory	BP061125	HP Acquire Method	BNA_P	HP Processing Method	BP060625

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6784,SP6785,SP6786,SP6787,SP6788,SP6790,SP6789,SP6791
CCC	SP6787
Internal Standard/PEM	S12668,10ul/1000ul sample
ICV/I.BLK	SP6796
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BP024904.D	11 Jun 2025 09:29		RC/JU	Ok
2	SSTDCCC040	SSTDCCC040	BP024905.D	11 Jun 2025 10:09		RC/JU	Ok,M
3	PB168300BL	PB168300BL	BP024906.D	11 Jun 2025 10:50		RC/JU	Ok
4	PB168300BS	PB168300BS	BP024907.D	11 Jun 2025 11:31		RC/JU	Ok
5	Q2176-03	TP-25	BP024908.D	11 Jun 2025 12:18		RC/JU	Ok
6	Q2176-05	TP-28	BP024909.D	11 Jun 2025 12:59		RC/JU	Ok
7	Q2207-01	BU-703-COMP-01	BP024910.D	11 Jun 2025 13:40		RC/JU	Ok
8	Q2227-01	TP07-MHH-WC	BP024911.D	11 Jun 2025 14:21		RC/JU	Ok
9	Q2228-01	TP08-MHI-WC	BP024912.D	11 Jun 2025 15:02		RC/JU	Ok
10	Q2226-01	TP06-MHI-WC	BP024913.D	11 Jun 2025 15:43		RC/JU	Ok
11	Q2244-01	TP03-MHC	BP024914.D	11 Jun 2025 16:24		RC/JU	Ok
12	Q2244-01MS	TP03-MHCMS	BP024915.D	11 Jun 2025 17:05		RC/JU	Ok
13	Q2244-01MSD	TP03-MHCMSD	BP024916.D	11 Jun 2025 17:46		RC/JU	Ok
14	Q2177-02DL	B-187-SB01DL	BP024917.D	11 Jun 2025 18:27		RC/JU	Ok,M
15	Q2241-01	TP-N	BP024918.D	11 Jun 2025 19:08		RC/JU	Ok
16	Q2198-03	B-207-SB02	BP024919.D	11 Jun 2025 19:49		RC/JU	Ok,M
17	Q2125-07	GSB3	BP024920.D	11 Jun 2025 20:30		RC/JU	Ok
18	Q2241-05	TP-S	BP024921.D	11 Jun 2025 21:11		RC/JU	Ok

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Instrument ID: BNA_P

Daily Analysis Runlog For Sequence/QCBatch ID # BP061125

Review By	anahy	Review On	6/12/2025 9:31:34 AM		
Supervise By	mohammad	Supervise On	6/13/2025 9:04:12 AM		
SubDirectory	BP061125	HP Acquire Method	BNA_P	HP Processing Method	BP060625

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6784,SP6785,SP6786,SP6787,SP6788,SP6790,SP6789,SP6791
CCC	SP6787
Internal Standard/PEM	S12668,10ul/1000ul sample
ICV/I.BLK	SP6796
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

M : Manual Integration

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EXTRACTION LOGPAGE

PB168285

SOP ID:	M3510C,3580A-Extraction SVOC-20				
Clean Up SOP #:	N/A			**Extraction Start Date :**	06/04/2025
Matrix :	Water			**Extraction Start Time :**	11:45
Weigh By:	N/A	**Extraction By:**	RS	**Extraction End Date :**	06/04/2025
Balance check:	N/A	**Filter By:**	RJ	**Extraction End Time :**	16:40
Balance ID:	N/A	**pH Meter ID:**	N/A	**Concentration By:**	EH
pH Strip Lot#:	E3880	**Hood ID:**	4,6,7	**Supervisor By :**	RUPESH

Extraction Method: [√] Seperatory Funnel [ ] Continious Liquid/Liquid [ ] Sonication [ ] Waste Dilution [ ] Soxhlet

Standared Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Spike Sol 1	1.0ML	50/100 PPM	SP6794
Surrogate	1.0ML	100/150 PPM	SP6754
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
Methylene Chloride	N/A	E3939
Baked Na2SO4	N/A	EP2620
10N NaoH	N/A	EP2609
H2SO4 1:1	N/A	EP2610
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

1.5 ML Vial lot# 2210443. pH Adjusted<2 with 1:1 H2SO4 &>11 with 10 N NaOH, Q2177-08 Split volume.

KD Bath ID:	WATER BATH-1,2	**Envap ID:**	NEVAP-02
KD Bath Temperature:	60 °C	**Envap Temperature:**	40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
6/4/25	RS (Ext lab)	RC/SVOC
16:45	**Preparation Group**	**Analysis Group**

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PrepBatch ID : PB168285

Analytical Method: M3510C,3580A-Extraction SVOC-20

Concentration Date: 06/04/2025

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB168285BL	SBLK285	SVOC-TCL BNA -20	1000	6	RUPESH	ritesh	1			SEP-1
PB168285BS	SLCS285	SVOC-TCL BNA -20	1000	6	RUPESH	ritesh	1			2
PB168285BSD	SLCSD285	SVOC-TCL BNA -20	1000	6	RUPESH	ritesh	1			3
Q2177-08	EB05312025	SVOC-TCL BNA -20	490	6	RUPESH	ritesh	0.5	F		4
Q2181-02	38073-032124	SVOCMS Group2	1000	6	RUPESH	ritesh	1			5
Q2198-05	B-202-GW01	SVOC-TCL BNA -20	990	6	RUPESH	ritesh	1	F		6

RS
6/4

* **Extracts relinquished on the same date as received.**

Q2198 682285 11:45

WORKLIST(Hardcopy Internal Chain)

WorkList Name : Q2177 **WorkList ID :** 189930 **Department :** Extraction **Date :** 06-04-2025 11:38:16

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2177-08	EB05312025	Water	SVOC-TCL BNA -20	Cool 4 deg C	PORT06	L41	05/31/2025	8270E
Q2181-02	38073-032124	Water	SVOCMS Group2	Cool 4 deg C	ALLI03	QA Of	05/30/2025	8270E
Q2198-05	B-202-GW01	Water	SVOC-TCL BNA -20	Cool 4 deg C	PORT06	N22	05/31/2025	8270E

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Date/Time 6/4/25 11:40
Raw Sample Received by: RS (Ext-Lab)
Raw Sample Relinquished by: RM SM

Date/Time 6/4/25 12:15
Raw Sample Received by: RM SM
Raw Sample Relinquished by: RS (Ext-Lab)

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PB168300

SOP ID:	M3541-ASE Extraction-14				
Clean Up SOP #:	N/A			**Extraction Start Date :**	06/05/2025
Matrix :	Solid			**Extraction Start Time :**	09:40
Weigh By:	EH	**Extraction By:**	RJ	**Extraction End Date :**	06/05/2025
Balance check:	RJ	**Filter By:**	RJ	**Extraction End Time :**	13:15
Balance ID:	EX-SC-2	**pH Meter ID:**	N/A	**Concentration By:**	EH
pH Strip Lot#:	N/A	**Hood ID:**	3,7	**Supervisor By :**	RUPESH

Extraction Method: ☐ Seperatory Funnel ☐ Continious Liquid/Liquid ☐ Sonication ☐ Waste Dilution ☑ Soxhlet

Standared Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Spike Sol 1	1.0ML	50/100 PPM	SP6794
Surrogate	1.0ML	100/150 PPM	SP6754
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
MeCl2/Acetone/1:1	N/A	EP2612
Baked Na2SO4	N/A	EP2620
Sand	N/A	E2865
Methylene Chloride	N/A	E3939
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

1.5ML Vail Lot # 2210443.

KD Bath ID:	N/A	**Envap ID:**	NEVAP-02
KD Bath Temperature:	N/A	**Envap Temperature:**	40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
6/5/25	RS (Ext lab)	RC/SVOC
13:20	**Preparation Group**	**Analysis Group**

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PrepBatch ID : PB168300

Analytical Method: M3541-ASE Extraction-14 **Concentration Date:** 06/05/2025

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB168300BL	SBLK300	SVOC-TCL BNA -20	30.01	N/A	ritesh	Evelyn	1			U2-1
PB168300BS	SLCS300	SVOC-TCL BNA -20	30.02	N/A	ritesh	Evelyn	1			2
Q2198-01	B-202-SB02	SVOC-TCL BNA -20	30.05	N/A	ritesh	Evelyn	1	E		3
Q2198-03	B-207-SB01	SVOC-TCL BNA -20	30.09	N/A	ritesh	Evelyn	1	E		4
Q2206-01	TP-1	SVOC-TCL BNA -20	50.05	N/A	ritesh	Evelyn	1	D		5
Q2207-01	BU-703-COMP-01	SVOC-TCL BNA -20	50.04	N/A	ritesh	Evelyn	1	D		6
Q2207-10	BU-703-COMP-02	SVOC-TCL BNA -20	50.07	N/A	ritesh	Evelyn	1	D		U3-1
Q2207-19	BU-703-COMP-03	SVOC-TCL BNA -20	50.02	N/A	ritesh	Evelyn	1	D		2
Q2207-28	BU-703-COMP-04	SVOC-TCL BNA -20	50.03	N/A	ritesh	Evelyn	1	D		3
Q2207-37	BU-703-COMP-05	SVOC-TCL BNA -20	50.04	N/A	ritesh	Evelyn	1	D		4
Q2207-37MS	BU-703-COMP-05MS	SVOC-TCL BNA -20	50.07	N/A	ritesh	Evelyn	1	D		5
Q2207-37MSD	BU-703-COMP-05MSD	SVOC-TCL BNA -20	50.06	N/A	ritesh	Evelyn	1	D		6
Q2208-01	BU-703-COMP-06	SVOC-TCL BNA -20	50.08	N/A	ritesh	Evelyn	1	D		U6-1
Q2208-10	BU-703-COMP-07	SVOC-TCL BNA -20	50.01	N/A	ritesh	Evelyn	1	D		2
Q2208-19	BU-703-COMP-08	SVOC-TCL BNA -20	50.03	N/A	ritesh	Evelyn	1	D		3
Q2208-28	BU-703-COMP-09	SVOC-TCL BNA -20	50.04	N/A	ritesh	Evelyn	1	D		4
Q2214-01	RBR251425	SVOC-TCL BNA -20	50.02	N/A	ritesh	Evelyn	1	D	Gel Mat.	5
Q2218-01	72-11934	SVOC-TCL BNA -20	50.05	N/A	ritesh	Evelyn	1	D		6
Q2219-01	72-11995	SVOC-TCL BNA -20	50.09	N/A	ritesh	Evelyn	1	D		U1-1
Q2226-01	TP06-MHI-WC	SVOC-TCL BNA -20	50.06	N/A	ritesh	Evelyn	1	D		2E

RS 6/5

* **Extracts relinquished on the same date as received.**

Q2198 6/8 9:40

WORKLIST(Hardcopy Internal Chain)

WorkList Name : Q2206B **WorkList ID :** 189950 **Department :** Extraction **Date :** 06-05-2025 09:07:30

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2198-01	B-202-SB02	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PORT06	N22	05/31/2025	8270E
Q2198-03	B-207-SB01	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PORT06	N22	06/01/2025	8270E
Q2206-01	TP-1	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	N31	06/04/2025	8270E
Q2207-01	BU-703-COMP-01	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	N31	06/02/2025	8270E
Q2207-10	BU-703-COMP-02	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	N31	06/02/2025	8270E
Q2207-19	BU-703-COMP-03	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	N31	06/02/2025	8270E
Q2207-28	BU-703-COMP-04	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	N31	06/02/2025	8270E
Q2207-37	BU-703-COMP-05	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	N31	06/02/2025	8270E
Q2208-01	BU-703-COMP-06	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	N31	06/02/2025	8270E
Q2208-10	BU-703-COMP-07	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	N31	06/02/2025	8270E
Q2208-19	BU-703-COMP-08	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	N31	06/02/2025	8270E
Q2208-28	BU-703-COMP-09	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	N31	06/02/2025	8270E
Q2214-01	RBR251425	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	N31	06/04/2025	8270E
Q2218-01	72-11934	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	N31	06/04/2025	8270E
Q2219-01	72-11995	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	N31	06/04/2025	8270E
Q2226-01	TP06-MHI-WC	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	N42	06/04/2025	8270E

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Date/Time 06/05/25 9:35
Raw Sample Received by: RJ (Ext Lab)
Raw Sample Relinquished by: CP SM

Date/Time 06/05/25 10:10
Raw Sample Received by: CP SM
Raw Sample Relinquished by: RJ (Ext Lab)

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LAB CHRONICLE

OrderID:	Q2198	**OrderDate:**	6/3/2025 2:31:00 PM
Client:	Portal Partners Tri-Venture	**Project:**	Amtrak Sawtooth Bridges 2025
Contact:	Joseph Krupansky	**Location:**	N22,VOA Ref. #2 Soil,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2198-01	**B-202-SB02**	**SOIL**			**05/31/25**			**06/03/25**
			SVOC-TCL BNA -20	8270E		06/05/25	06/06/25	
Q2198-02	**B-202-SB02**	**TCLP**			**05/31/25**			**06/03/25**
			TCLP BNA	8270E		06/05/25	06/07/25	
Q2198-03	**B-207-SB02**	**SOIL**			**06/01/25**			**06/03/25**
			SVOC-TCL BNA -20	8270E		06/05/25	06/11/25	
Q2198-04	**B-207-SB02**	**TCLP**			**06/01/25**			**06/03/25**
			TCLP BNA	8270E		06/05/25	06/07/25	
Q2198-05	**B-202-GW01**	**Water**			**05/31/25**			**06/03/25**
			SVOC-TCL BNA -20	8270E		06/04/25	06/06/25	

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Hit Summary Sheet
SW-846

SDG No.: Q2198

Client: Portal Partners Tri-Venture

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID :								
				0.000				
			Total Svoc :			**0.00**		
			Total Concentration:			**0.00**		

SAMPLE DATA

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	06/05/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	06/05/25
Client Sample ID:	PB168271TB	SDG No.:	Q2198
Lab Sample ID:	PB168271TB	Matrix:	TCLP
Analytical Method:	8270E	% Solid:	0
Sample Wt/Vol:	100 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	TCLP BNA
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BM050226.D	1	06/05/25 11:44	06/06/25 23:22	PB168314

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
110-86-1	Pyridine	12.8	U	12.8	50.0	ug/L
106-46-7	1,4-Dichlorobenzene	5.30	U	5.30	50.0	ug/L
95-48-7	2-Methylphenol	11.2	U	11.2	50.0	ug/L
65794-96-9	3+4-Methylphenols	11.0	U	11.0	100	ug/L
67-72-1	Hexachloroethane	6.50	U	6.50	50.0	ug/L
98-95-3	Nitrobenzene	7.60	U	7.60	50.0	ug/L
87-68-3	Hexachlorobutadiene	5.40	U	5.40	50.0	ug/L
88-06-2	2,4,6-Trichlorophenol	5.10	U	5.10	50.0	ug/L
95-95-4	2,4,5-Trichlorophenol	6.20	U	6.20	50.0	ug/L
121-14-2	2,4-Dinitrotoluene	12.2	U	12.2	50.0	ug/L
118-74-1	Hexachlorobenzene	5.20	U	5.20	50.0	ug/L
87-86-5	Pentachlorophenol	15.8	U	15.8	100	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	132		15 (23) - 110 (138)	88%	SPK: 150
13127-88-3	Phenol-d6	124		15 (10) - 110 (134)	83%	SPK: 150
4165-60-0	Nitrobenzene-d5	79.0		30 (67) - 130 (132)	79%	SPK: 100
321-60-8	2-Fluorobiphenyl	80.0		30 (52) - 130 (132)	80%	SPK: 100
118-79-6	2,4,6-Tribromophenol	128		15 (44) - 110 (137)	85%	SPK: 150
1718-51-0	Terphenyl-d14	82.3		30 (42) - 130 (152)	82%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	359000	7.787			
1146-65-2	Naphthalene-d8	1360000	10.575			
15067-26-2	Acenaphthene-d10	777000	14.41			
1517-22-2	Phenanthrene-d10	1430000	17.151			
1719-03-5	Chrysene-d12	1250000	21.374			
1520-96-3	Perylene-d12	1260000	24.362			

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	06/05/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	06/05/25
Client Sample ID:	PB168271TB	SDG No.:	Q2198
Lab Sample ID:	PB168271TB	Matrix:	TCLP
Analytical Method:	8270E	% Solid:	0
Sample Wt/Vol:	100 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	TCLP BNA
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BM050226.D	1	06/05/25 11:44	06/06/25 23:22	PB168314

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	05/31/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	06/03/25
Client Sample ID:	B-202-SB02	SDG No.:	Q2198
Lab Sample ID:	Q2198-02	Matrix:	TCLP
Analytical Method:	8270E	% Solid:	0
Sample Wt/Vol:	100 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	TCLP BNA
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BM050229.D	1	06/05/25 11:44	06/07/25 01:21	PB168314

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
110-86-1	Pyridine	12.8	U	12.8	50.0	ug/L
106-46-7	1,4-Dichlorobenzene	5.30	U	5.30	50.0	ug/L
95-48-7	2-Methylphenol	11.2	U	11.2	50.0	ug/L
65794-96-9	3+4-Methylphenols	11.0	U	11.0	100	ug/L
67-72-1	Hexachloroethane	6.50	U	6.50	50.0	ug/L
98-95-3	Nitrobenzene	7.60	U	7.60	50.0	ug/L
87-68-3	Hexachlorobutadiene	5.40	U	5.40	50.0	ug/L
88-06-2	2,4,6-Trichlorophenol	5.10	U	5.10	50.0	ug/L
95-95-4	2,4,5-Trichlorophenol	6.20	U	6.20	50.0	ug/L
121-14-2	2,4-Dinitrotoluene	12.2	U	12.2	50.0	ug/L
118-74-1	Hexachlorobenzene	5.20	U	5.20	50.0	ug/L
87-86-5	Pentachlorophenol	15.8	U	15.8	100	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	132		15 (23) - 110 (138)	88%	SPK: 150
13127-88-3	Phenol-d6	119		15 (10) - 110 (134)	79%	SPK: 150
4165-60-0	Nitrobenzene-d5	80.8		30 (67) - 130 (132)	81%	SPK: 100
321-60-8	2-Fluorobiphenyl	76.2		30 (52) - 130 (132)	76%	SPK: 100
118-79-6	2,4,6-Tribromophenol	125		15 (44) - 110 (137)	83%	SPK: 150
1718-51-0	Terphenyl-d14	81.9		30 (42) - 130 (152)	82%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	344000	7.787			
1146-65-2	Naphthalene-d8	1330000	10.575			
15067-26-2	Acenaphthene-d10	732000	14.41			
1517-22-2	Phenanthrene-d10	1300000	17.151			
1719-03-5	Chrysene-d12	1200000	21.374			
1520-96-3	Perylene-d12	1240000	24.356			

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	05/31/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	06/03/25
Client Sample ID:	B-202-SB02	SDG No.:	Q2198
Lab Sample ID:	Q2198-02	Matrix:	TCLP
Analytical Method:	8270E	% Solid:	0
Sample Wt/Vol:	100 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	TCLP BNA
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BM050229.D	1	06/05/25 11:44	06/07/25 01:21	PB168314

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	06/01/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	06/03/25
Client Sample ID:	B-207-SB02	SDG No.:	Q2198
Lab Sample ID:	Q2198-04	Matrix:	TCLP
Analytical Method:	8270E	% Solid:	0
Sample Wt/Vol:	100 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	TCLP BNA
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BM050230.D	1	06/05/25 11:44	06/07/25 02:01	PB168314

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
110-86-1	Pyridine	12.8	U	12.8	50.0	ug/L
106-46-7	1,4-Dichlorobenzene	5.30	U	5.30	50.0	ug/L
95-48-7	2-Methylphenol	11.2	U	11.2	50.0	ug/L
65794-96-9	3+4-Methylphenols	11.0	U	11.0	100	ug/L
67-72-1	Hexachloroethane	6.50	U	6.50	50.0	ug/L
98-95-3	Nitrobenzene	7.60	U	7.60	50.0	ug/L
87-68-3	Hexachlorobutadiene	5.40	U	5.40	50.0	ug/L
88-06-2	2,4,6-Trichlorophenol	5.10	U	5.10	50.0	ug/L
95-95-4	2,4,5-Trichlorophenol	6.20	U	6.20	50.0	ug/L
121-14-2	2,4-Dinitrotoluene	12.2	U	12.2	50.0	ug/L
118-74-1	Hexachlorobenzene	5.20	U	5.20	50.0	ug/L
87-86-5	Pentachlorophenol	15.8	U	15.8	100	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	125		15 (23) - 110 (138)	83%	SPK: 150
13127-88-3	Phenol-d6	108		15 (10) - 110 (134)	72%	SPK: 150
4165-60-0	Nitrobenzene-d5	82.9		30 (67) - 130 (132)	83%	SPK: 100
321-60-8	2-Fluorobiphenyl	78.4		30 (52) - 130 (132)	78%	SPK: 100
118-79-6	2,4,6-Tribromophenol	129		15 (44) - 110 (137)	86%	SPK: 150
1718-51-0	Terphenyl-d14	86.6		30 (42) - 130 (152)	87%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	299000	7.787			
1146-65-2	Naphthalene-d8	1130000	10.575			
15067-26-2	Acenaphthene-d10	622000	14.41			
1517-22-2	Phenanthrene-d10	1120000	17.145			
1719-03-5	Chrysene-d12	1050000	21.374			
1520-96-3	Perylene-d12	1140000	24.356			

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	06/01/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	06/03/25
Client Sample ID:	B-207-SB02	SDG No.:	Q2198
Lab Sample ID:	Q2198-04	Matrix:	TCLP
Analytical Method:	8270E	% Solid:	0
Sample Wt/Vol:	100 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	TCLP BNA
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BM050230.D	1	06/05/25 11:44	06/07/25 02:01	PB168314

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

QC SUMMARY

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Surrogate Summary

SW-846

SDG No.: Q2198

Client: Portal Partners Tri-Venture

Analytical Method: 8270E

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
PB168271TB	PB168271TB	2-Fluorophenol	150	132	88		15 (23)	110 (138)
		Phenol-d6	150	124	83		15 (10)	110 (134)
		Nitrobenzene-d5	100	79.0	79		30 (67)	130 (132)
		2-Fluorobiphenyl	100	80.0	80		30 (52)	130 (132)
		2,4,6-Tribromophenol	150	128	85		15 (44)	110 (137)
		Terphenyl-d14	100	82.3	82		30 (42)	130 (152)
PB168314BL	PB168314BL	2-Fluorophenol	150	135	90		15 (23)	110 (138)
		Phenol-d6	150	125	84		15 (10)	110 (134)
		Nitrobenzene-d5	100	79.9	80		30 (67)	130 (132)
		2-Fluorobiphenyl	100	81.4	81		30 (52)	130 (132)
		2,4,6-Tribromophenol	150	125	83		15 (44)	110 (137)
		Terphenyl-d14	100	81.8	82		30 (42)	130 (152)
PB168314BS	PB168314BS	2-Fluorophenol	150	126	84		15 (23)	110 (138)
		Phenol-d6	150	118	79		15 (10)	110 (134)
		Nitrobenzene-d5	100	76.8	77		30 (67)	130 (132)
		2-Fluorobiphenyl	100	76.0	76		30 (52)	130 (132)
		2,4,6-Tribromophenol	150	125	83		15 (44)	110 (137)
		Terphenyl-d14	100	77.0	77		30 (42)	130 (152)
Q2194-02MS	COMP-12MS	2-Fluorophenol	150	119	79		15 (23)	110 (138)
		Phenol-d6	150	109	73		15 (10)	110 (134)
		Nitrobenzene-d5	100	79.1	79		30 (67)	130 (132)
		2-Fluorobiphenyl	100	76.0	76		30 (52)	130 (132)
		2,4,6-Tribromophenol	150	122	82		15 (44)	110 (137)
		Terphenyl-d14	100	77.3	77		30 (42)	130 (152)
Q2194-02MSD	COMP-12MSD	2-Fluorophenol	150	124	83		15 (23)	110 (138)
		Phenol-d6	150	112	75		15 (10)	110 (134)
		Nitrobenzene-d5	100	83.2	83		30 (67)	130 (132)
		2-Fluorobiphenyl	100	79.4	79		30 (52)	130 (132)
		2,4,6-Tribromophenol	150	130	87		15 (44)	110 (137)
		Terphenyl-d14	100	79.4	79		30 (42)	130 (152)
Q2198-02	B-202-SB02	2-Fluorophenol	150	132	88		15 (23)	110 (138)
		Phenol-d6	150	119	79		15 (10)	110 (134)
		Nitrobenzene-d5	100	80.8	81		30 (67)	130 (132)
		2-Fluorobiphenyl	100	76.2	76		30 (52)	130 (132)
		2,4,6-Tribromophenol	150	125	83		15 (44)	110 (137)
		Terphenyl-d14	100	81.9	82		30 (42)	130 (152)
Q2198-04	B-207-SB02	2-Fluorophenol	150	125	83		15 (23)	110 (138)
		Phenol-d6	150	108	72		15 (10)	110 (134)
		Nitrobenzene-d5	100	82.9	83		30 (67)	130 (132)
		2-Fluorobiphenyl	100	78.4	78		30 (52)	130 (132)
		2,4,6-Tribromophenol	150	129	86		15 (44)	110 (137)
		Terphenyl-d14	100	86.6	87		30 (42)	130 (152)

( ) = LABORATORY INHOUSE LIMIT

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q2198

Client: Portal Partners Tri-Venture

Analytical Method: SW8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Lab Sample ID: Q2194-02MS		**Client Sample ID: COMP-12MS**						**DataFile: BM050213.D**			
Pyridine	500	0	350	ug/L	70				20 (10)	160 (109)	
1,4-Dichlorobenzene	500	0	310	ug/L	62	*			70 (55)	130 (125)	
2-Methylphenol	500	0	420	ug/L	84				70 (60)	130 (131)	
3+4-Methylphenols	500	0	420	ug/L	84				20 (54)	160 (136)	
Hexachloroethane	500	0	300	ug/L	60				20 (19)	160 (146)	
Nitrobenzene	500	0	430	ug/L	86				70 (62)	130 (112)	
Hexachlorobutadiene	500	0	340	ug/L	68	*			70 (52)	130 (125)	
2,4,6-Trichlorophenol	500	0	460	ug/L	92				70 (78)	130 (112)	
2,4,5-Trichlorophenol	500	0	460	ug/L	92				70 (71)	130 (111)	
2,4-Dinitrotoluene	500	0	470	ug/L	94				70 (74)	130 (137)	
Hexachlorobenzene	500	0	460	ug/L	92				70 (72)	130 (115)	
Pentachlorophenol	1000	0	920	ug/L	92				20 (52)	160 (162)	

( ) = LABORATORY INHOUSE LIMIT

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q2198

Client: Portal Partners Tri-Venture

Analytical Method: SW8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	Limits RPD
Lab Sample ID: Q2194-02MSD		**Client Sample ID:** COMP-12MSD						**DataFile:** BM050214.D			
Pyridine	500	0	370	ug/L	74		6		20 (10)	160 (109)	20 (20)
1,4-Dichlorobenzene	500	0	320	ug/L	64	*	3		70 (55)	130 (125)	20 (20)
2-Methylphenol	500	0	440	ug/L	88		5		70 (60)	130 (131)	20 (20)
3+4-Methylphenols	500	0	440	ug/L	88		5		20 (54)	160 (136)	20 (20)
Hexachloroethane	500	0	320	ug/L	64		6		20 (19)	160 (146)	20 (20)
Nitrobenzene	500	0	450	ug/L	90		5		70 (62)	130 (112)	20 (20)
Hexachlorobutadiene	500	0	380	ug/L	76		11		70 (52)	130 (125)	20 (20)
2,4,6-Trichlorophenol	500	0	490	ug/L	98		6		70 (78)	130 (112)	20 (20)
2,4,5-Trichlorophenol	500	0	490	ug/L	98		6		70 (71)	130 (111)	20 (20)
2,4-Dinitrotoluene	500	0	500	ug/L	100		6		70 (74)	130 (137)	20 (20)
Hexachlorobenzene	500	0	480	ug/L	96		4		70 (72)	130 (115)	20 (20)
Pentachlorophenol	1000	0	950	ug/L	95		3		20 (52)	160 (162)	20 (20)

( ) = LABORATORY INHOUSE LIMIT

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2198

Client: Portal Partners Tri-Venture

Analytical Method: 8270E **DataFile:** BM050225.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	Limits RPD
PB168314BS	Pyridine	50	37.5	ug/L	75				20 (29)	160 (97)	
	1,4-Dichlorobenzene	50	40.5	ug/L	81				70 (76)	130 (103)	
	2-Methylphenol	50	40.9	ug/L	82				70 (69)	130 (109)	
	3+4-Methylphenols	50	40.5	ug/L	81				20 (67)	160 (106)	
	Hexachloroethane	50	42.1	ug/L	84				20 (76)	160 (118)	
	Nitrobenzene	50	44.3	ug/L	89				70 (58)	130 (106)	
	Hexachlorobutadiene	50	42.0	ug/L	84				70 (69)	130 (101)	
	2,4,6-Trichlorophenol	50	44.7	ug/L	89				70 (61)	130 (110)	
	2,4,5-Trichlorophenol	50	44.1	ug/L	88				70 (70)	130 (106)	
	2,4-Dinitrotoluene	50	46.7	ug/L	93				70 (60)	130 (115)	
	Hexachlorobenzene	50	44.0	ug/L	88				70 (73)	130 (106)	
	Pentachlorophenol	100	93.1	ug/L	93				20 (47)	160 (114)	

( ) = LABORATORY INHOUSE LIMIT

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4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB168314BL

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q2198 SAS No.: Q2198 SDG NO.: Q2198

Lab File ID: BM050224.D Lab Sample ID: PB168314BL

Instrument ID: BNA_M Date Extracted: 06/05/2025

Matrix: (soil/water) water Date Analyzed: 06/06/2025

Level: (low/med) LOW Time Analyzed: 22:03

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
COMP-12MS	Q2194-02MS	BM050213.D	06/06/2025
COMP-12MSD	Q2194-02MSD	BM050214.D	06/06/2025
PB168314BS	PB168314BS	BM050225.D	06/06/2025
B-202-SB02	Q2198-02	BM050229.D	06/07/2025
B-207-SB02	Q2198-04	BM050230.D	06/07/2025
PB168271TB	PB168271TB	BM050226.D	06/06/2025

COMMENTS:

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM SAS No.: Q2198 SDG NO.: Q2198

Lab File ID: BM050193.D DFTPP Injection Date: 06/05/2025

Instrument ID: BNA_M DFTPP Injection Time: 08:40

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	20.3
68	Less than 2.0% of mass 69	0.6 (1.6) 1
69	Mass 69 relative abundance	37.2
70	Less than 2.0% of mass 69	0.2 (0.6) 1
127	10.0 - 80.0% of mass 198	47.5
197	Less than 2.0% of mass 198	0.4
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	7
275	10.0 - 60.0% of mass 198	24.6
365	Greater than 1% of mass 198	3.2
441	Present, but less than mass 443	11.6
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	14.8 (19.9) 2

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

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDICC2.5	SSTDICC2.5	BM050194.D	06/05/2025	09:20
SSTDICC005	SSTDICC005	BM050195.D	06/05/2025	09:59
SSTDICC010	SSTDICC010	BM050196.D	06/05/2025	10:38
SSTDICC020	SSTDICC020	BM050197.D	06/05/2025	11:17
SSTDICCC040	SSTDICCC040	BM050198.D	06/05/2025	11:57
SSTDICC050	SSTDICC050	BM050199.D	06/05/2025	12:36
SSTDICC060	SSTDICC060	BM050200.D	06/05/2025	13:16
SSTDICC080	SSTDICC080	BM050201.D	06/05/2025	13:56

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM SAS No.: Q2198 SDG NO.: Q2198

Lab File ID: BM050205.D DFTPP Injection Date: 06/06/2025

Instrument ID: BNA_M DFTPP Injection Time: 08:50

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	19.3
68	Less than 2.0% of mass 69	0.5 (1.5) 1
69	Mass 69 relative abundance	34
70	Less than 2.0% of mass 69	0.2 (0.6) 1
127	10.0 - 80.0% of mass 198	44.7
197	Less than 2.0% of mass 198	0.4
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.8
275	10.0 - 60.0% of mass 198	26
365	Greater than 1% of mass 198	3.4
441	Present, but less than mass 443	12.9
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	16.2 (19.4) 2

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

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC040	SSTDCCC040	BM050206.D	06/06/2025	09:29
COMP-12MS	Q2194-02MS	BM050213.D	06/06/2025	14:06
COMP-12MSD	Q2194-02MSD	BM050214.D	06/06/2025	14:46

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM SAS No.: Q2198 SDG NO.: Q2198

Lab File ID: BM050222.D DFTPP Injection Date: 06/06/2025

Instrument ID: BNA_M DFTPP Injection Time: 20:43

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	21.3
68	Less than 2.0% of mass 69	0.6 (1.5) 1
69	Mass 69 relative abundance	39.8
70	Less than 2.0% of mass 69	0.2 (0.5) 1
127	10.0 - 80.0% of mass 198	48.9
197	Less than 2.0% of mass 198	0.2
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.8
275	10.0 - 60.0% of mass 198	24.9
365	Greater than 1% of mass 198	3.2
441	Present, but less than mass 443	11.5
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	14.8 (19.5) 2

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

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC040	SSTDCCC040	BM050223.D	06/06/2025	21:23
PB168314BL	PB168314BL	BM050224.D	06/06/2025	22:03
PB168314BS	PB168314BS	BM050225.D	06/06/2025	22:42
PB168271TB	PB168271TB	BM050226.D	06/06/2025	23:22
B-202-SB02	Q2198-02	BM050229.D	06/07/2025	01:21
B-207-SB02	Q2198-04	BM050230.D	06/07/2025	02:01

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q2198 SAS No.: Q2198 SDG NO.: Q2198

EPA Sample No.: SSTDCCC040 Date Analyzed: 06/06/2025

Lab File ID: BM050206.D Time Analyzed: 09:29

Instrument ID: BNA_M GC Column: ZB-GR ID: 0.25 (mm)

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	295242	7.787	1183110	10.58	689122	14.42
	UPPER LIMIT	590484	8.287	2366220	11.075	1378240	14.916
	LOWER LIMIT	147621	7.287	591555	10.075	344561	13.916
	EPA SAMPLE NO.						
01	COMP-12MS	348615	7.79	1377430	10.58	768114	14.42
02	COMP-12MSD	346679	7.79	1352850	10.58	758249	14.42

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

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 UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q2198 SAS No.: Q2198 SDG NO.: Q2198

EPA Sample No.: SSTDCCC040 Date Analyzed: 06/06/2025

Lab File ID: BM050206.D Time Analyzed: 09:29

Instrument ID: BNA_M GC Column: ZB-GR ID: 0.25 (mm)

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	1340070	17.151	1418640	21.386	1586720	24.368
	UPPER LIMIT	2680140	17.651	2837280	21.886	3173440	24.868
	LOWER LIMIT	670035	16.651	709320	20.886	793360	23.868
	EPA SAMPLE NO.						
01	COMP-12MS	1293380	17.15	1106420	21.38	1212630	24.37
02	COMP-12MSD	1299390	17.15	1138990	21.38	1259320	24.37

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

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 UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q2198 SAS No.: Q2198 SDG NO.: Q2198

EPA Sample No.: SSTDCCC040 Date Analyzed: 06/06/2025

Lab File ID: BM050223.D Time Analyzed: 21:23

Instrument ID: BNA_M GC Column: ZB-GR ID: 0.25 (mm)

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	279322	7.786	1074650	10.58	577654	14.41
	UPPER LIMIT	558644	8.286	2149300	11.075	1155310	14.91
	LOWER LIMIT	139661	7.286	537325	10.075	288827	13.91
	EPA SAMPLE NO.						
01	PB168271TB	358609	7.79	1359940	10.58	776933	14.41
02	PB168314BL	315983	7.79	1181140	10.58	658679	14.41
03	PB168314BS	327404	7.79	1240220	10.58	678136	14.41
04	B-202-SB02	344497	7.79	1326490	10.58	732372	14.41
05	B-207-SB02	299355	7.79	1125870	10.58	622474	14.41

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

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 UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q2198 SAS No.: Q2198 SDG NO.: Q2198

EPA Sample No.: SSTDCCC040 Date Analyzed: 06/06/2025

Lab File ID: BM050223.D Time Analyzed: 21:23

Instrument ID: BNA_M GC Column: ZB-GR ID: 0.25 (mm)

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	1020060	17.151	1029160	21.38	1065460	24.362
	UPPER LIMIT	2040120	17.651	2058320	21.88	2130920	24.862
	LOWER LIMIT	510030	16.651	514580	20.88	532730	23.862
	EPA SAMPLE NO.						
01	PB168271TB	1434190	17.15	1254580	21.37	1261320	24.36
02	PB168314BL	1198310	17.15	1134030	21.37	1193800	24.36
03	PB168314BS	1205400	17.15	1198190	21.37	1311490	24.36
04	B-202-SB02	1299490	17.15	1203450	21.37	1242720	24.36
05	B-207-SB02	1119240	17.15	1048290	21.37	1143100	24.36

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

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 UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

QC SAMPLE DATA

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Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB168314BL	SDG No.:	Q2198
Lab Sample ID:	PB168314BL	Matrix:	TCLP
Analytical Method:	8270E	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	TCLP BNA
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BM050224.D	1	06/05/25 11:44	06/06/25 22:03	PB168314

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
110-86-1	Pyridine	1.30	U	1.30	5.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.53	U	0.53	5.00	ug/L
95-48-7	2-Methylphenol	1.10	U	1.10	5.00	ug/L
65794-96-9	3+4-Methylphenols	1.10	U	1.10	10.0	ug/L
67-72-1	Hexachloroethane	0.65	U	0.65	5.00	ug/L
98-95-3	Nitrobenzene	0.76	U	0.76	5.00	ug/L
87-68-3	Hexachlorobutadiene	0.54	U	0.54	5.00	ug/L
88-06-2	2,4,6-Trichlorophenol	0.51	U	0.51	5.00	ug/L
95-95-4	2,4,5-Trichlorophenol	0.62	U	0.62	5.00	ug/L
121-14-2	2,4-Dinitrotoluene	1.20	U	1.20	5.00	ug/L
118-74-1	Hexachlorobenzene	0.52	U	0.52	5.00	ug/L
87-86-5	Pentachlorophenol	1.60	U	1.60	10.0	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	135		15 (23) - 110 (138)	90%	SPK: 150
13127-88-3	Phenol-d6	125		15 (10) - 110 (134)	84%	SPK: 150
4165-60-0	Nitrobenzene-d5	79.9		30 (67) - 130 (132)	80%	SPK: 100
321-60-8	2-Fluorobiphenyl	81.4		30 (52) - 130 (132)	81%	SPK: 100
118-79-6	2,4,6-Tribromophenol	125		15 (44) - 110 (137)	83%	SPK: 150
1718-51-0	Terphenyl-d14	81.8		30 (42) - 130 (152)	82%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	316000	7.786			
1146-65-2	Naphthalene-d8	1180000	10.575			
15067-26-2	Acenaphthene-d10	659000	14.41			
1517-22-2	Phenanthrene-d10	1200000	17.145			
1719-03-5	Chrysene-d12	1130000	21.374			
1520-96-3	Perylene-d12	1190000	24.356			

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Report of Analysis

Client:	Portal Partners Tri-Venture			Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025			Date Received:	
Client Sample ID:	PB168314BL			SDG No.:	Q2198
Lab Sample ID:	PB168314BL			Matrix:	TCLP
Analytical Method:	8270E			% Solid:	0
Sample Wt/Vol:	1000	Units:	mL	Final Vol:	1000 uL
Soil Aliquot Vol:			uL	Test:	TCLP BNA
Extraction Type :			Decanted : N	Level :	LOW
Injection Volume :			GPC Factor : 1.0	GPC Cleanup : N	PH :
Prep Method :	SW3510C				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BM050224.D	1	06/05/25 11:44	06/06/25 22:03	PB168314

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB168314BS	SDG No.:	Q2198
Lab Sample ID:	PB168314BS	Matrix:	TCLP
Analytical Method:	8270E	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	TCLP BNA
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup : N	PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BM050225.D	1	06/05/25 11:44	06/06/25 22:42	PB168314

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
110-86-1	Pyridine	37.5		1.30	5.00	ug/L
106-46-7	1,4-Dichlorobenzene	40.5		0.53	5.00	ug/L
95-48-7	2-Methylphenol	40.9		1.10	5.00	ug/L
65794-96-9	3+4-Methylphenols	40.5		1.10	10.0	ug/L
67-72-1	Hexachloroethane	42.1		0.65	5.00	ug/L
98-95-3	Nitrobenzene	44.3		0.76	5.00	ug/L
87-68-3	Hexachlorobutadiene	42.0		0.54	5.00	ug/L
88-06-2	2,4,6-Trichlorophenol	44.7		0.51	5.00	ug/L
95-95-4	2,4,5-Trichlorophenol	44.1		0.62	5.00	ug/L
121-14-2	2,4-Dinitrotoluene	46.7		1.20	5.00	ug/L
118-74-1	Hexachlorobenzene	44.0		0.52	5.00	ug/L
87-86-5	Pentachlorophenol	93.1	E	1.60	10.0	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	126		15 (23) - 110 (138)	84%	SPK: 150
13127-88-3	Phenol-d6	118		15 (10) - 110 (134)	79%	SPK: 150
4165-60-0	Nitrobenzene-d5	76.8		30 (67) - 130 (132)	77%	SPK: 100
321-60-8	2-Fluorobiphenyl	76.0		30 (52) - 130 (132)	76%	SPK: 100
118-79-6	2,4,6-Tribromophenol	125		15 (44) - 110 (137)	83%	SPK: 150
1718-51-0	Terphenyl-d14	77.0		30 (42) - 130 (152)	77%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	327000	7.787			
1146-65-2	Naphthalene-d8	1240000	10.575			
15067-26-2	Acenaphthene-d10	678000	14.41			
1517-22-2	Phenanthrene-d10	1210000	17.151			
1719-03-5	Chrysene-d12	1200000	21.374			
1520-96-3	Perylene-d12	1310000	24.362			

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Report of Analysis

Client:	Portal Partners Tri-Venture			Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025			Date Received:	
Client Sample ID:	PB168314BS			SDG No.:	Q2198
Lab Sample ID:	PB168314BS			Matrix:	TCLP
Analytical Method:	8270E			% Solid:	0
Sample Wt/Vol:	1000	Units:	mL	Final Vol:	1000 uL
Soil Aliquot Vol:			uL	Test:	TCLP BNA
Extraction Type :			Decanted : N	Level :	LOW
Injection Volume :			GPC Factor : 1.0	GPC Cleanup : N	PH :
Prep Method :	SW3510C				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BM050225.D	1	06/05/25 11:44	06/06/25 22:42	PB168314

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	06/03/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	06/03/25
Client Sample ID:	COMP-12MS	SDG No.:	Q2198
Lab Sample ID:	Q2194-02MS	Matrix:	TCLP
Analytical Method:	8270E	% Solid:	0
Sample Wt/Vol:	100 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	TCLP BNA
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BM050213.D	1	06/05/25 11:44	06/06/25 14:06	PB168314

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
110-86-1	Pyridine	350		12.8	50.0	ug/L
106-46-7	1,4-Dichlorobenzene	310		5.30	50.0	ug/L
95-48-7	2-Methylphenol	420		11.2	50.0	ug/L
65794-96-9	3+4-Methylphenols	420		11.0	100	ug/L
67-72-1	Hexachloroethane	300		6.50	50.0	ug/L
98-95-3	Nitrobenzene	430		7.60	50.0	ug/L
87-68-3	Hexachlorobutadiene	340		5.40	50.0	ug/L
88-06-2	2,4,6-Trichlorophenol	460		5.10	50.0	ug/L
95-95-4	2,4,5-Trichlorophenol	460		6.20	50.0	ug/L
121-14-2	2,4-Dinitrotoluene	470		12.2	50.0	ug/L
118-74-1	Hexachlorobenzene	460		5.20	50.0	ug/L
87-86-5	Pentachlorophenol	920	E	15.8	100	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	119		15 (23) - 110 (138)	79%	SPK: 150
13127-88-3	Phenol-d6	109		15 (10) - 110 (134)	73%	SPK: 150
4165-60-0	Nitrobenzene-d5	79.1		30 (67) - 130 (132)	79%	SPK: 100
321-60-8	2-Fluorobiphenyl	76.0		30 (52) - 130 (132)	76%	SPK: 100
118-79-6	2,4,6-Tribromophenol	122		15 (44) - 110 (137)	82%	SPK: 150
1718-51-0	Terphenyl-d14	77.3		30 (42) - 130 (152)	77%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	349000	7.787			
1146-65-2	Naphthalene-d8	1380000	10.575			
15067-26-2	Acenaphthene-d10	768000	14.416			
1517-22-2	Phenanthrene-d10	1290000	17.151			
1719-03-5	Chrysene-d12	1110000	21.38			
1520-96-3	Perylene-d12	1210000	24.368			

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	06/03/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	06/03/25
Client Sample ID:	COMP-12MS	SDG No.:	Q2198
Lab Sample ID:	Q2194-02MS	Matrix:	TCLP
Analytical Method:	8270E	% Solid:	0
Sample Wt/Vol:	100 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	TCLP BNA
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BM050213.D	1	06/05/25 11:44	06/06/25 14:06	PB168314

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	06/03/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	06/03/25
Client Sample ID:	COMP-12MSD	SDG No.:	Q2198
Lab Sample ID:	Q2194-02MSD	Matrix:	TCLP
Analytical Method:	8270E	% Solid:	0
Sample Wt/Vol:	100 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	TCLP BNA
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BM050214.D	1	06/05/25 11:44	06/06/25 14:46	PB168314

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
110-86-1	Pyridine	370		12.8	50.0	ug/L
106-46-7	1,4-Dichlorobenzene	320		5.30	50.0	ug/L
95-48-7	2-Methylphenol	440		11.2	50.0	ug/L
65794-96-9	3+4-Methylphenols	440		11.0	100	ug/L
67-72-1	Hexachloroethane	320		6.50	50.0	ug/L
98-95-3	Nitrobenzene	450		7.60	50.0	ug/L
87-68-3	Hexachlorobutadiene	380		5.40	50.0	ug/L
88-06-2	2,4,6-Trichlorophenol	490		5.10	50.0	ug/L
95-95-4	2,4,5-Trichlorophenol	490		6.20	50.0	ug/L
121-14-2	2,4-Dinitrotoluene	500		12.2	50.0	ug/L
118-74-1	Hexachlorobenzene	480		5.20	50.0	ug/L
87-86-5	Pentachlorophenol	950	E	15.8	100	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	124		15 (23) - 110 (138)	83%	SPK: 150
13127-88-3	Phenol-d6	112		15 (10) - 110 (134)	75%	SPK: 150
4165-60-0	Nitrobenzene-d5	83.2		30 (67) - 130 (132)	83%	SPK: 100
321-60-8	2-Fluorobiphenyl	79.4		30 (52) - 130 (132)	79%	SPK: 100
118-79-6	2,4,6-Tribromophenol	130		15 (44) - 110 (137)	87%	SPK: 150
1718-51-0	Terphenyl-d14	79.4		30 (42) - 130 (152)	79%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	347000	7.786			
1146-65-2	Naphthalene-d8	1350000	10.575			
15067-26-2	Acenaphthene-d10	758000	14.415			
1517-22-2	Phenanthrene-d10	1300000	17.151			
1719-03-5	Chrysene-d12	1140000	21.38			
1520-96-3	Perylene-d12	1260000	24.368			

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	06/03/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	06/03/25
Client Sample ID:	COMP-12MSD	SDG No.:	Q2198
Lab Sample ID:	Q2194-02MSD	Matrix:	TCLP
Analytical Method:	8270E	% Solid:	0
Sample Wt/Vol:	100 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	TCLP BNA
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BM050214.D	1	06/05/25 11:44	06/06/25 14:46	PB168314

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

CALIBRATION SUMMARY

Response Factor Report BNA_M

Method Path : Z:\svoasrv\HPCHEM1\BNA_M\Methods\
Method File : 8270-BM060525.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Thu Jun 05 16:20:25 2025
Response Via : Initial Calibration

Calibration Files
2.5 =BM050194.D 5 =BM050195.D 10 =BM050196.D 20 =BM050197.D 40 =BM050198.D 50 =BM050199.D 60 =BM050200.D 80 =BM0502
01.D

		Compound	2.5	5	10	20	40	50	60	80	Avg	%RSD
1)	I	1,4-Dichlorobenzen...	----------ISTD----------									
2)		1,4-Dioxane		0.597	0.552	0.516	0.479	0.511	0.536	0.488	0.526	7.69
3)		Pyridine		1.353	1.352	1.370	1.311	1.425	1.389	1.326	1.361	2.80
4)		n-Nitrosodimet...		0.283	0.265	0.279	0.272	0.297	0.293	0.282	0.281	3.95
5)	S	2-Fluorophenol		1.251	1.193	1.192	1.145	1.238	1.224	1.150	1.199	3.45
6)		Aniline		2.033	2.016	2.147	2.065	2.250	2.064	2.031	2.086	4.02
7)	S	Phenol-d6		1.569	1.521	1.617	1.565	1.699	1.560	1.516	1.578	4.00
8)		2-Chlorophenol		1.289	1.259	1.344	1.295	1.418	1.338	1.288	1.319	4.02
9)		Benzaldehyde		1.188	1.080	1.096	0.878	0.975	0.804		1.003	14.43
10)	C	Phenol		1.673	1.644	1.710	1.644	1.782	1.637	1.600	1.670	3.58
11)		bis(2-Chloroet...		1.396	1.319	1.380	1.315	1.428	1.295	1.269	1.343	4.36
12)		1,3-Dichlorobe...		1.516	1.462	1.491	1.412	1.545	1.485	1.409	1.474	3.46
13)	C	1,4-Dichlorobe...		1.619	1.544	1.564	1.450	1.591	1.525	1.444	1.534	4.34
14)		1,2-Dichlorobe...		1.503	1.456	1.492	1.402	1.540	1.450	1.392	1.462	3.68
15)		Benzyl Alcohol		1.072	1.045	1.152	1.141	1.267	1.102	1.101	1.126	6.43
16)		2,2'-oxybis(1-...		1.012	0.949	0.974	0.909	0.978	0.863	0.845	0.933	6.68
17)		2-Methylphenol		1.078	1.042	1.133	1.108	1.207	1.077	1.068	1.102	4.96
18)		Hexachloroethane		0.564	0.544	0.552	0.533	0.593	0.559	0.543	0.556	3.51
19)	P	n-Nitroso-di-n...	0.847	0.944	0.947	1.072	1.001	1.096	0.906	0.913	0.966	8.82
20)		3+4-Methylphenols		1.367	1.375	1.533	1.509	1.661	1.437	1.438	1.474	6.98
21)	I	Naphthalene-d8	----------ISTD----------									
22)		Acetophenone		0.515	0.506	0.517	0.476	0.519	0.495	0.470	0.500	4.03
23)	S	Nitrobenzene-d5		0.359	0.362	0.392	0.377	0.414	0.406	0.382	0.385	5.42
24)		Nitrobenzene		0.333	0.337	0.359	0.339	0.370	0.363	0.347	0.350	4.10
25)		Isophorone		0.647	0.624	0.685	0.659	0.733	0.652	0.646	0.664	5.33
26)	C	2-Nitrophenol		0.116	0.124	0.146	0.155	0.178	0.169	0.169	0.151	15.65
27)		2,4-Dimethylph...		0.311	0.298	0.315	0.303	0.332	0.313	0.299	0.310	3.80
28)		bis(2-Chloroet...		0.426	0.413	0.447	0.427	0.470	0.432	0.420	0.434	4.42
29)	C	2,4-Dichloroph...		0.265	0.262	0.289	0.286	0.319	0.300	0.289	0.287	6.83
30)		1,2,4-Trichlor...		0.324	0.307	0.321	0.305	0.337	0.330	0.312	0.319	3.72
31)		Naphthalene		1.111	1.041	1.056	0.977	1.061	1.025	0.969	1.034	4.79
32)		Benzoic acid			0.127	0.176	0.204	0.233	0.211	0.219	0.195	19.69
33)		4-Chloroaniline		0.438	0.423	0.454	0.433	0.477	0.440	0.422	0.441	4.37
34)	C	Hexachlorobuta...		0.188	0.184	0.189	0.182	0.202	0.197	0.188	0.190	3.74
35)		Caprolactam		0.077	0.077	0.093	0.097	0.112	0.092	0.090	0.091	13.48
36)	C	4-Chloro-3-met...		0.293	0.276	0.313	0.313	0.347	0.302	0.299	0.306	7.19
37)		2-Methylnaphth...		0.625	0.592	0.643	0.615	0.679	0.619	0.594	0.624	4.78
38)		1-Methylnaphth...		0.676	0.637	0.689	0.649	0.714	0.648	0.622	0.662	4.86

Method Path : Z:\svoasrv\HPCHEM1\BNA_M\Methods\
Method File : 8270-BM060525.M

39)	I	Acenaphthene-d10	----------ISTD----------								
40)		1,2,4,5-Tetrac...	0.586	0.561	0.585	0.541	0.589	0.607	0.574	0.578	3.71
41)	P	Hexachlorocycl...	0.295	0.305	0.339	0.341	0.382	0.401	0.392	0.351	12.02
42)	S	2,4,6-Tribromo...	0.210	0.213	0.238	0.231	0.254	0.233	0.214	0.227	6.99
43)	C	2,4,6-Trichlor...	0.346	0.347	0.379	0.375	0.414	0.402	0.396	0.380	6.93
44)		2,4,5-Trichlor...	0.371	0.382	0.424	0.414	0.457	0.442	0.429	0.417	7.46
45)	S	2-Fluorobiphenyl	1.589	1.536	1.532	1.377	1.463	1.480	1.364	1.477	5.67
46)		1,1'-Biphenyl	1.582	1.513	1.514	1.404	1.526	1.508	1.437	1.498	3.96
47)		2-Chloronaphth...	1.221	1.194	1.180	1.084	1.171	1.177	1.123	1.164	3.94
48)		2-Nitroaniline	0.200	0.206	0.252	0.268	0.302	0.290	0.277	0.256	15.56
49)		Acenaphthylene	1.863	1.834	1.940	1.819	1.978	1.924	1.824	1.883	3.39
50)		Dimethylphthalate	1.339	1.285	1.398	1.343	1.474	1.344	1.284	1.353	4.92
51)		2,6-Dinitrotol...	0.204	0.231	0.284	0.289	0.320	0.297	0.284	0.273	14.82
52)	C	Acenaphthene	1.217	1.176	1.185	1.132	1.228	1.181	1.127	1.178	3.24
53)		3-Nitroaniline	0.231	0.252	0.312	0.323	0.360	0.336	0.314	0.304	15.16
54)	P	2,4-Dinitrophenol		0.093	0.131	0.152	0.179	0.160	0.160	0.146	20.67
55)		Dibenzofuran	1.782	1.710	1.775	1.662	1.797	1.719	1.617	1.723	3.87
56)	P	4-Nitrophenol	0.199	0.216	0.265	0.274	0.307	0.288	0.262	0.259	14.93
57)		2,4-Dinitrotol...	0.250	0.283	0.365	0.396	0.447	0.398	0.380	0.360	19.28
58)		Fluorene	1.413	1.358	1.394	1.267	1.348	1.289	1.169	1.320	6.40
59)		2,3,4,6-Tetrac...	0.338	0.330	0.370	0.365	0.401	0.371	0.350	0.361	6.60
60)		Diethylphthalate	1.314	1.272	1.416	1.346	1.490	1.317	1.238	1.342	6.43
61)		4-Chlorophenyl...	0.675	0.656	0.667	0.611	0.660	0.623	0.573	0.638	5.81
62)		4-Nitroaniline	0.213	0.236	0.291	0.308	0.342	0.319	0.285	0.285	16.00
63)		Azobenzene	1.342	1.330	1.415	1.313	1.443	1.316	1.230	1.341	5.25
64)	I	Phenanthrene-d10	----------ISTD----------								
65)		4,6-Dinitro-2-...		0.075	0.101	0.111	0.128	0.120	0.121	0.109	17.72
66)	c	n-Nitrosodiphe...	0.630	0.626	0.639	0.594	0.646	0.639	0.625	0.628	2.73
67)		4-Bromophenyl-...	0.207	0.204	0.215	0.204	0.228	0.217	0.218	0.213	4.13
68)		Hexachlorobenzene	0.249	0.240	0.253	0.238	0.261	0.255	0.249	0.249	3.29
69)		Atrazine	0.166	0.177	0.206	0.206	0.231	0.212	0.204	0.200	10.86
70)	C	Pentachlorophenol	0.133	0.138	0.165	0.164	0.187	0.177	0.171	0.162	12.21
71)		Phenanthrene	1.239	1.156	1.160	1.071	1.161	1.144	1.068	1.143	5.14
72)		Anthracene	1.167	1.135	1.175	1.086	1.181	1.165	1.092	1.143	3.46
73)		Carbazole	1.041	1.003	1.063	1.009	1.103	1.085	0.985	1.041	4.30
74)		Di-n-butylphth...	0.998	1.007	1.187	1.159	1.300	1.187	1.093	1.133	9.53
75)	C	Fluoranthene	1.180	1.139	1.231	1.178	1.301	1.284	1.121	1.205	5.77
76)	I	Chrysene-d12	----------ISTD----------								
77)		Benzidine		0.381	0.568	0.617	0.689	0.600	0.520	0.562	18.64
78)		Pyrene	1.331	1.307	1.444	1.324	1.423	1.274	1.334	1.348	4.61
79)	S	Terphenyl-d14	1.148	1.088	1.165	1.010	1.064	0.955	0.957	1.055	8.06
80)		Butylbenzylpht...	0.322	0.347	0.460	0.490	0.563	0.480	0.485	0.450	18.95
81)		Benzo(a)anthra...	1.271	1.231	1.298	1.218	1.338	1.280	1.225	1.266	3.47
82)		3,3'-Dichlorob...	0.265	0.301	0.379	0.415	0.476	0.450	0.416	0.386	19.97
83)		Chrysene	1.235	1.184	1.225	1.151	1.256	1.217	1.161	1.204	3.27
84)		Bis(2-ethylhex...	0.525	0.574	0.702	0.740	0.851	0.741	0.714	0.693	15.84
85)	c	Di-n-octyl pht...	0.641	0.729	0.936	1.114	1.359	1.245	1.169	1.028	26.08

Method Path : Z:\svoasrv\HPCHEM1\BNA_M\Methods\
Method File : 8270-BM060525.M

86)	I	Perylene-d12	----------ISTD----------							
87)		Indeno(1,2,3-c...	1.189	1.183	1.254	1.191	1.318	1.472	1.407	1.288	8.99
88)		Benzo(b)fluora...	1.104	1.082	1.205	1.170	1.269	1.178	1.132	1.163	5.46
89)		Benzo(k)fluora...	1.141	1.149	1.222	1.167	1.295	1.190	1.144	1.187	4.71
90)	C	Benzo(a)pyrene	0.994	1.007	1.111	1.081	1.197	1.153	1.111	1.093	6.73
91)		Dibenzo(a,h)an...	0.954	0.966	1.021	0.972	1.075	1.188	1.141	1.045	8.83
92)		Benzo(g,h,i)pe...	1.002	0.978	1.013	0.954	1.037	1.194	1.146	1.046	8.57

(#) = Out of Range

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q2198 SAS No.: Q2198 SDG No.: Q2198

Instrument ID: BNA_M Calibration Date/Time: 06/06/2025 09:29

Lab File ID: BM050206.D Init. Calib. Date(s): 06/05/2025 06/05/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 09:20 13:56

GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Pyridine	1.361	1.358		-0.2	
2-Fluorophenol	1.199	1.202		0.3	
Phenol-d6	1.578	1.546		-2.0	
1,4-Dichlorobenzene	1.534	1.457		-5.0	20.0
2-Methylphenol	1.102	1.055		-4.3	
3+4-Methylphenols	1.474	1.406		-4.6	
Nitrobenzene-d5	0.385	0.379		-1.6	
Hexachloroethane	0.555	0.534		-3.8	
Nitrobenzene	0.350	0.343		-2.0	
Hexachlorobutadiene	0.190	0.177		-6.8	20.0
2,4,6-Trichlorophenol	0.380	0.368		-3.2	20.0
2-Fluorobiphenyl	1.477	1.393		-5.7	
2,4,5-Trichlorophenol	0.417	0.407		-2.4	
2,4-Dinitrotoluene	0.360	0.386		7.2	
2,4,6-Tribromophenol	0.227	0.225		-0.9	
Hexachlorobenzene	0.249	0.231		-7.2	
Pentachlorophenol	0.162	0.161		-0.6	20.0
Terphenyl-d14	1.055	0.942		-10.7	

All other compounds must meet a minimum RRF of 0.010.

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q2198 SAS No.: Q2198 SDG No.: Q2198

Instrument ID: BNA_M Calibration Date/Time: 06/06/2025 21:23

Lab File ID: BM050223.D Init. Calib. Date(s): 06/05/2025 06/05/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 09:20 13:56

GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Pyridine	1.361	1.385		1.8	
2-Fluorophenol	1.199	1.211		1.0	
Phenol-d6	1.578	1.509		-4.4	
1,4-Dichlorobenzene	1.534	1.456		-5.1	20.0
2-Methylphenol	1.102	1.030		-6.5	
3+4-Methylphenols	1.474	1.350		-8.4	
Nitrobenzene-d5	0.385	0.383		-0.5	
Hexachloroethane	0.555	0.553		-0.4	
Nitrobenzene	0.350	0.352		0.6	
Hexachlorobutadiene	0.190	0.178		-6.3	20.0
2,4,6-Trichlorophenol	0.380	0.368		-3.2	20.0
2-Fluorobiphenyl	1.477	1.470		-0.5	
2,4,5-Trichlorophenol	0.417	0.402		-3.6	
2,4-Dinitrotoluene	0.360	0.337		-6.4	
2,4,6-Tribromophenol	0.227	0.216		-4.8	
Hexachlorobenzene	0.249	0.244		-2.0	
Pentachlorophenol	0.162	0.221		36.4	20.0
Terphenyl-d14	1.055	1.019		-3.4	

All other compounds must meet a minimum RRF of 0.010.

SAMPLE RAW DATA

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM060625\
Data File : BM050226.D
Acq On : 06 Jun 2025 23:22
Operator : RC/JU
Sample : PB168271TB
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
PB168271TB

Quant Time: Jun 07 01:22:04 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM060525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jun 05 16:20:25 2025
Response via : Initial Calibration

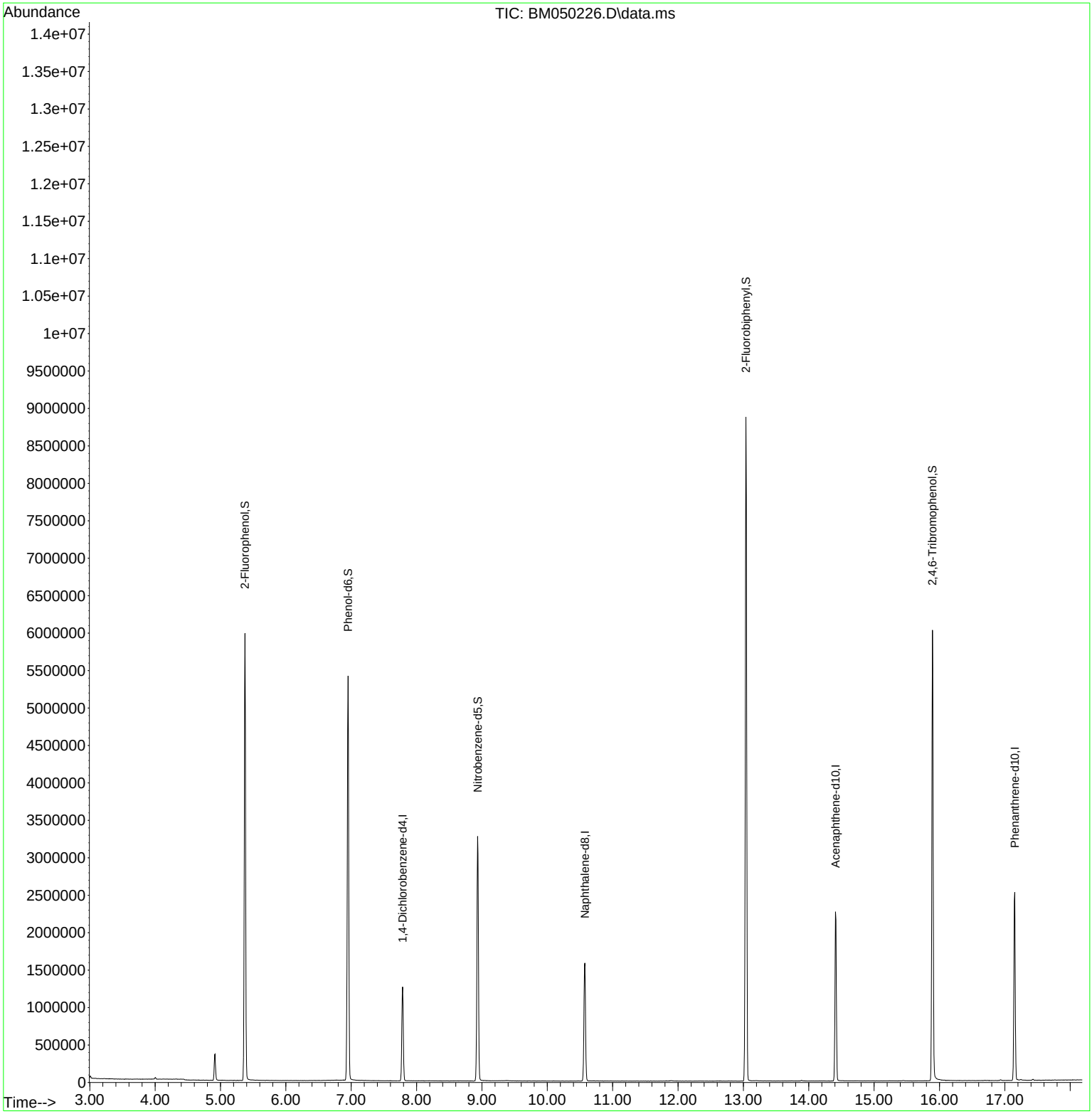
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.787	152	358609	20.000	ng	0.00
21) Naphthalene-d8	10.575	136	1359938	20.000	ng	0.00
39) Acenaphthene-d10	14.410	164	776933	20.000	ng	0.00
64) Phenanthrene-d10	17.151	188	1434193	20.000	ng	0.00
76) Chrysene-d12	21.374	240	1254575	20.000	ng	-0.01
86) Perylene-d12	24.362	264	1261316	20.000	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.375	112	2842427	132.221	ng	0.00
7) Phenol-d6	6.951	99	3513251	124.146	ng	0.00
23) Nitrobenzene-d5	8.934	82	2064741	78.962	ng	-0.01
42) 2,4,6-Tribromophenol	15.892	330	1128266	127.674	ng	-0.01
45) 2-Fluorobiphenyl	13.039	172	4591404	80.008	ng	-0.01
79) Terphenyl-d14	19.774	244	5446768	82.273	ng	-0.01
Target Compounds						Qvalue

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM060625\
Data File : BM050226.D
Acq On : 06 Jun 2025 23:22
Operator : RC/JU
Sample : PB168271TB
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
PB168271TB

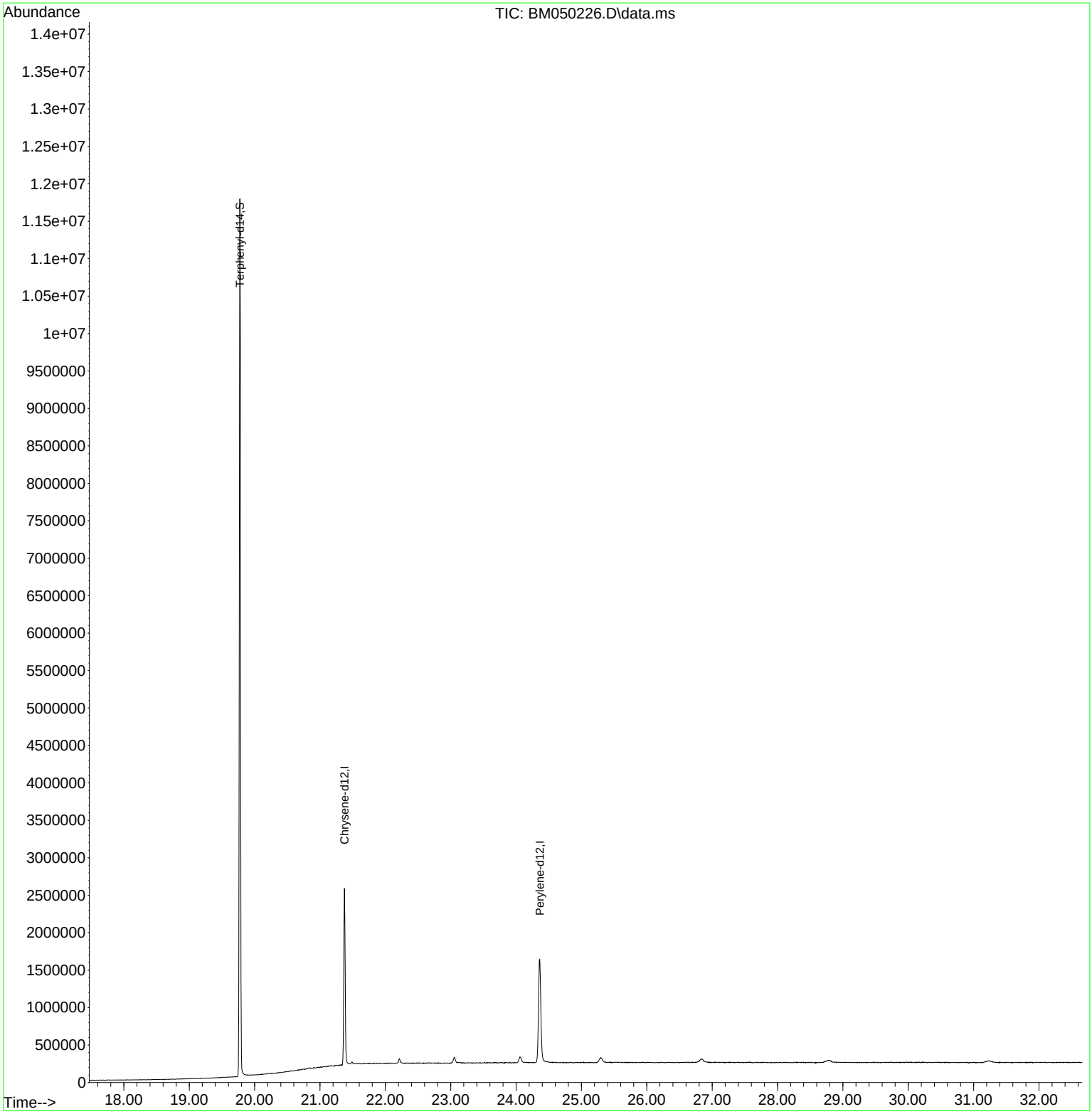
Quant Time: Jun 07 01:22:04 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM060525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jun 05 16:20:25 2025
Response via : Initial Calibration

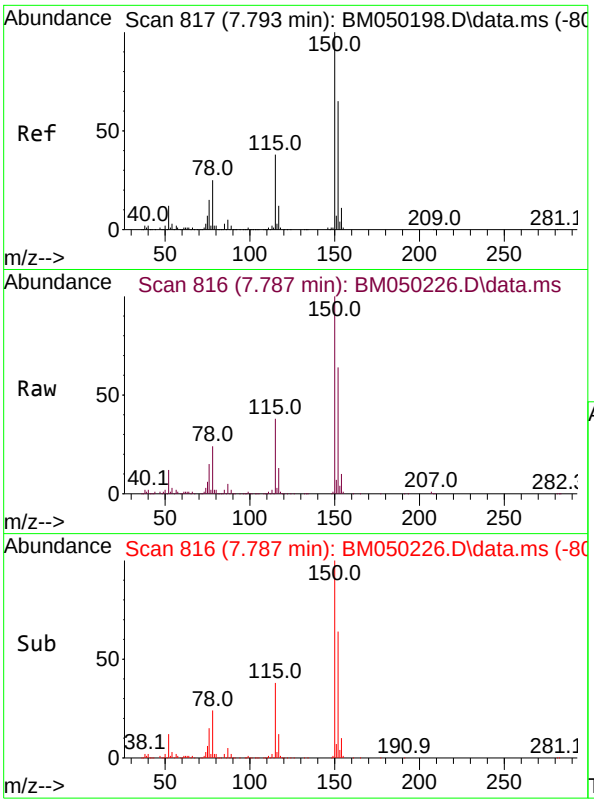


Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM060625\
Data File : BM050226.D
Acq On : 06 Jun 2025 23:22
Operator : RC/JU
Sample : PB168271TB
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
PB168271TB

Quant Time: Jun 07 01:22:04 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM060525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jun 05 16:20:25 2025
Response via : Initial Calibration



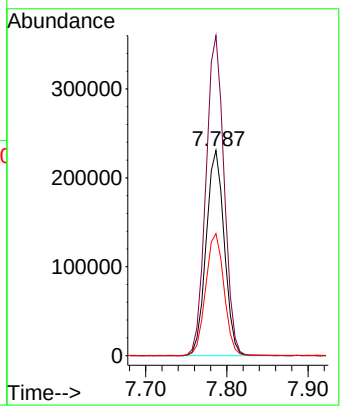


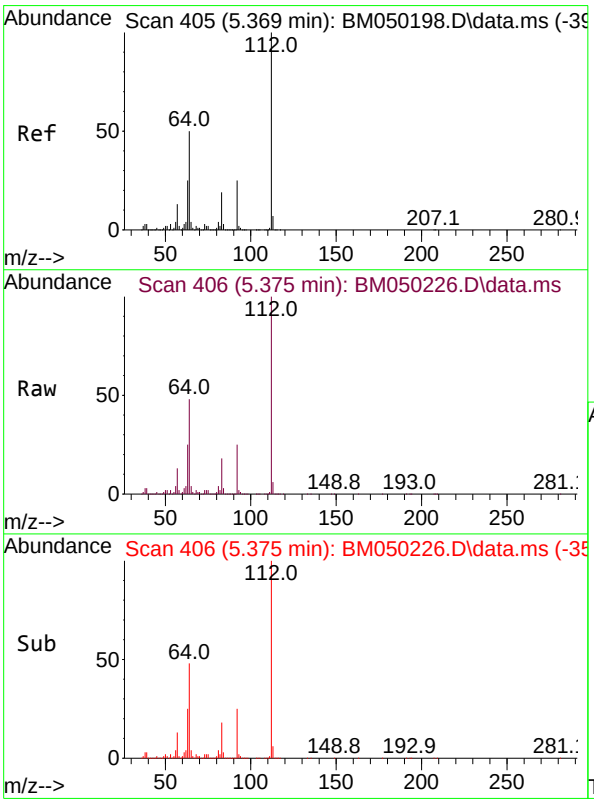
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.787 min Scan# 81
Delta R.T. -0.006 min
Lab File: BM050226.D
Acq: 06 Jun 2025 23:22

Instrument :
BNA_M
ClientSampleId :
PB168271TB

Tgt Ion:152 Resp: 358609

Ion	Ratio	Lower	Upper
152	100		
150	155.9	122.2	183.4
115	59.5	46.3	69.5

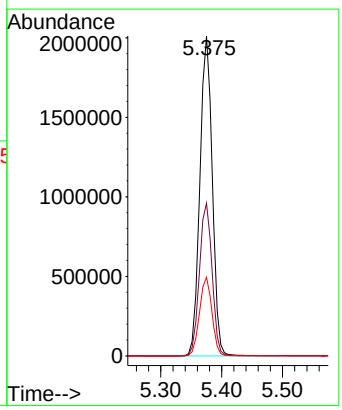


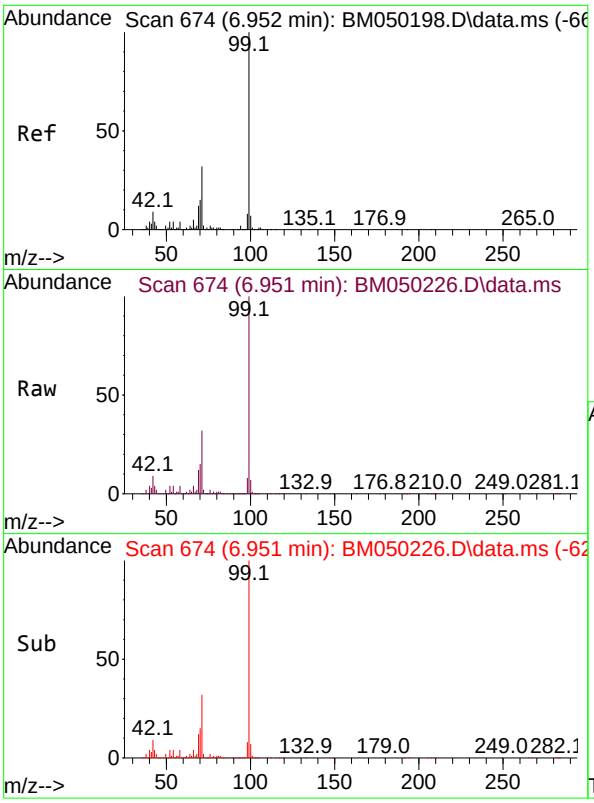


#5
2-Fluorophenol
Concen: 132.221 ng
RT: 5.375 min Scan# 406
Delta R.T. -0.000 min
Lab File: BM050226.D
Acq: 06 Jun 2025 23:22

Tgt Ion:112 Resp: 2842427

Ion	Ratio	Lower	Upper
112	100		
64	47.7	39.8	59.6
63	24.6	19.8	29.8



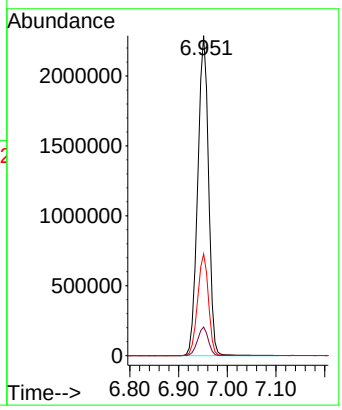


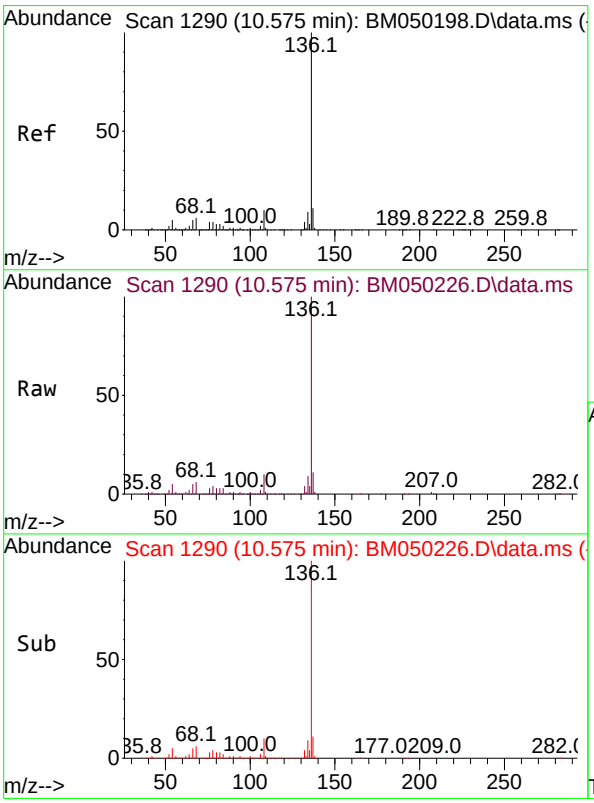
#7
Phenol-d6
Concen: 124.146 ng
RT: 6.951 min Scan# 6
Delta R.T. -0.006 min
Lab File: BM050226.D
Acq: 06 Jun 2025 23:22

Instrument :
BNA_M
ClientSampleId :
PB168271TB

Tgt Ion: 99 Resp: 3513251

Ion	Ratio	Lower	Upper
99	100		
42	8.9	6.9	10.3
71	31.8	25.3	37.9

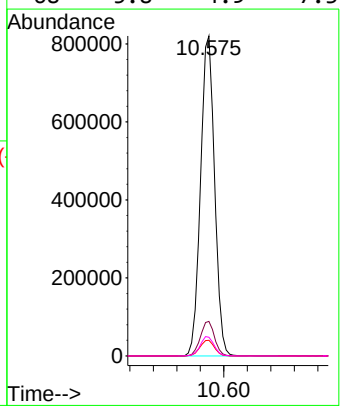


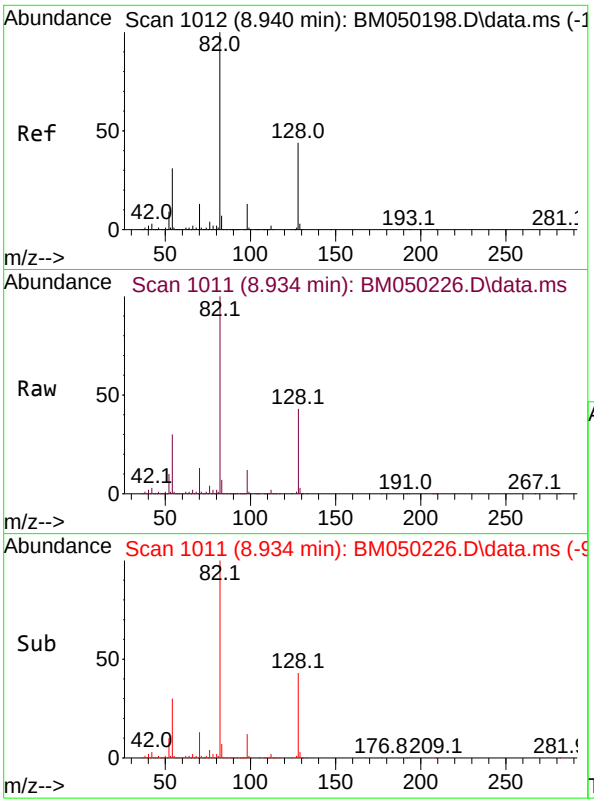


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.575 min Scan# 1290
Delta R.T. -0.006 min
Lab File: BM050226.D
Acq: 06 Jun 2025 23:22

Tgt Ion:136 Resp: 1359938

Ion	Ratio	Lower	Upper
136	100		
137	10.8	8.6	13.0
54	4.9	3.8	5.8
68	5.8	4.9	7.3



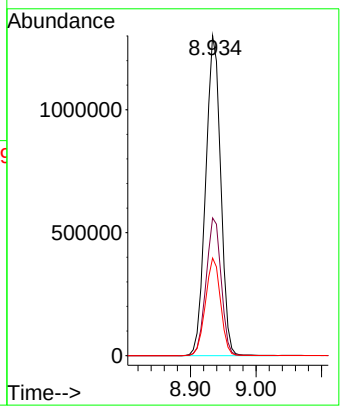


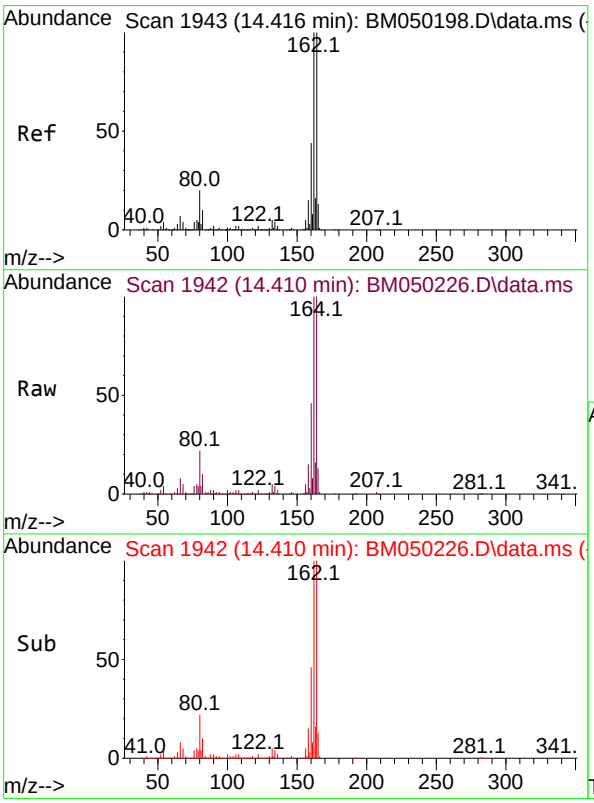
#23
Nitrobenzene-d5
Concen: 78.962 ng
RT: 8.934 min Scan# 10
Delta R.T. -0.012 min
Lab File: BM050226.D
Acq: 06 Jun 2025 23:22

Instrument :
BNA_M
ClientSampleId :
PB168271TB

Tgt Ion: 82 Resp: 2064741

Ion	Ratio	Lower	Upper
82	100		
128	43.0	35.2	52.8
54	30.5	24.5	36.7

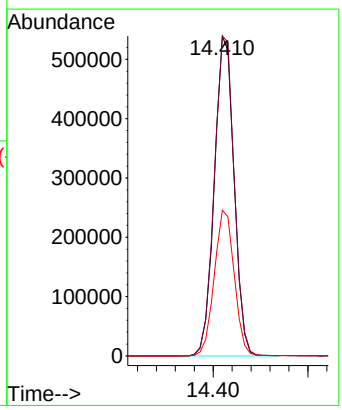


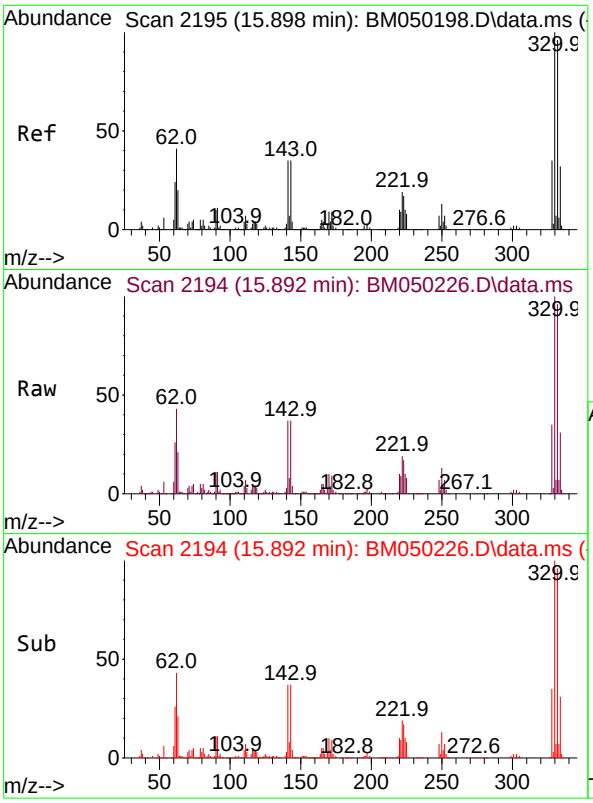


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.410 min Scan# 1942
Delta R.T. -0.006 min
Lab File: BM050226.D
Acq: 06 Jun 2025 23:22

Tgt Ion:164 Resp: 776933

Ion	Ratio	Lower	Upper
164	100		
162	100.1	80.2	120.4
160	45.6	35.7	53.5



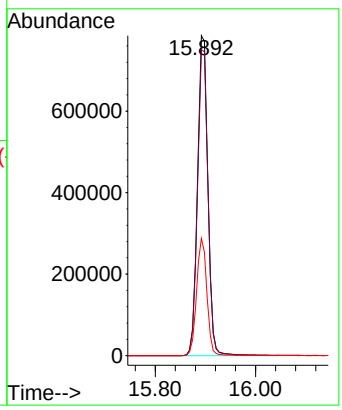


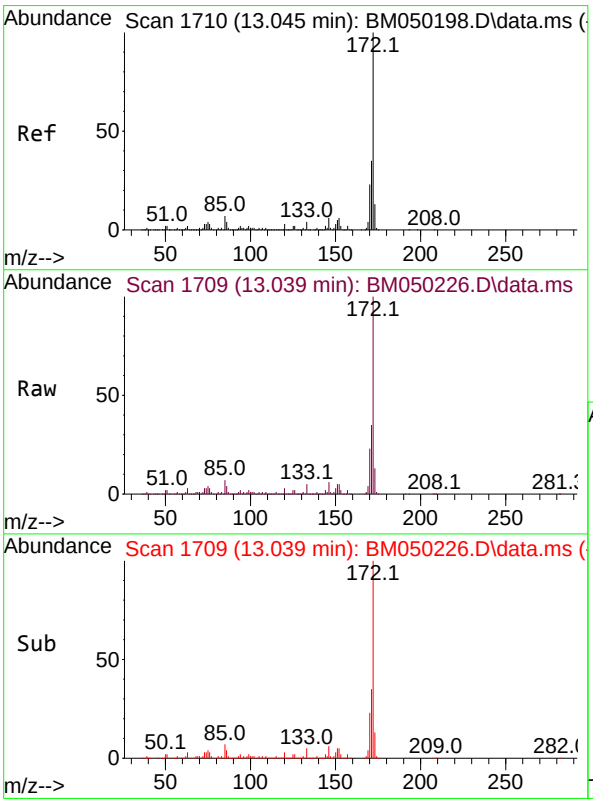
#42
2,4,6-Tribromophenol
Concen: 127.674 ng
RT: 15.892 min Scan# 21
Delta R.T. -0.012 min
Lab File: BM050226.D
Acq: 06 Jun 2025 23:22

Instrument :
BNA_M
ClientSampleId :
PB168271TB

Tgt Ion:330 Resp: 1128266

Ion	Ratio	Lower	Upper
330	100		
332	96.2	77.5	116.3
141	36.4	28.8	43.2

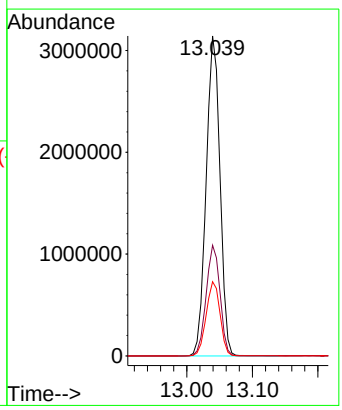


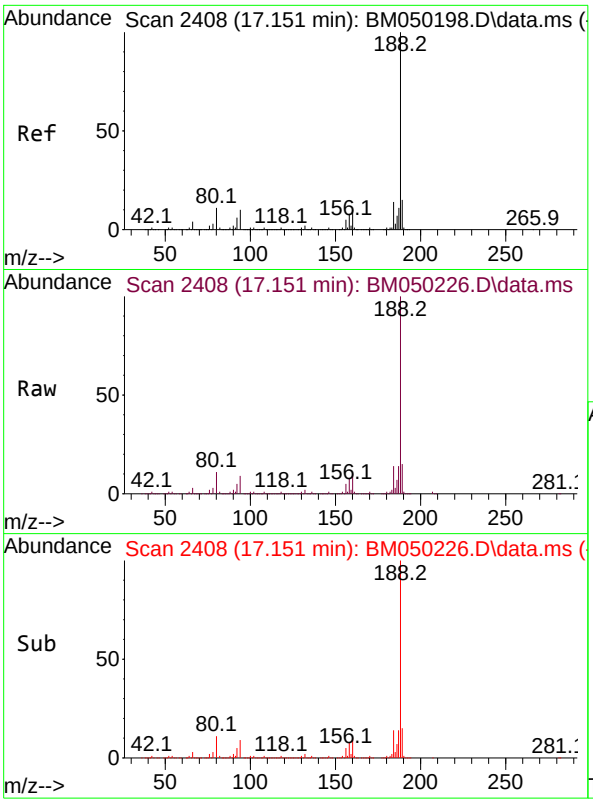


#45
2-Fluorobiphenyl
Concen: 80.008 ng
RT: 13.039 min Scan# 1709
Delta R.T. -0.012 min
Lab File: BM050226.D
Acq: 06 Jun 2025 23:22

Tgt Ion:172 Resp: 4591404

Ion	Ratio	Lower	Upper
172	100		
171	34.6	27.8	41.6
170	23.2	18.6	27.8



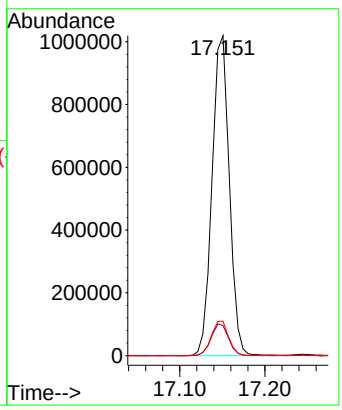


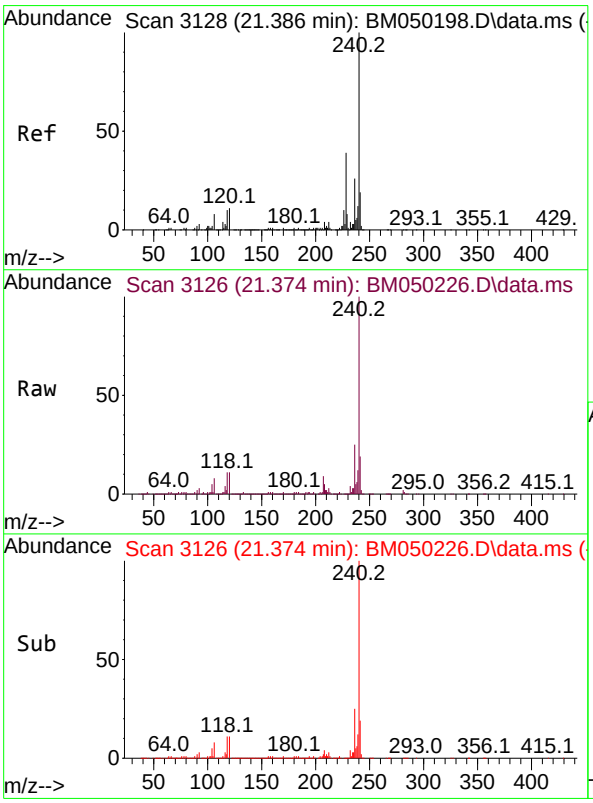
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.151 min Scan# 24
Delta R.T. -0.006 min
Lab File: BM050226.D
Acq: 06 Jun 2025 23:22

Instrument :
BNA_M
ClientSampleId :
PB168271TB

Tgt Ion:188 Resp: 1434193

Ion	Ratio	Lower	Upper
188	100		
94	9.4	8.1	12.1
80	10.8	8.6	13.0

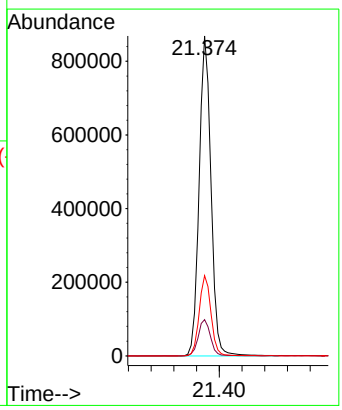


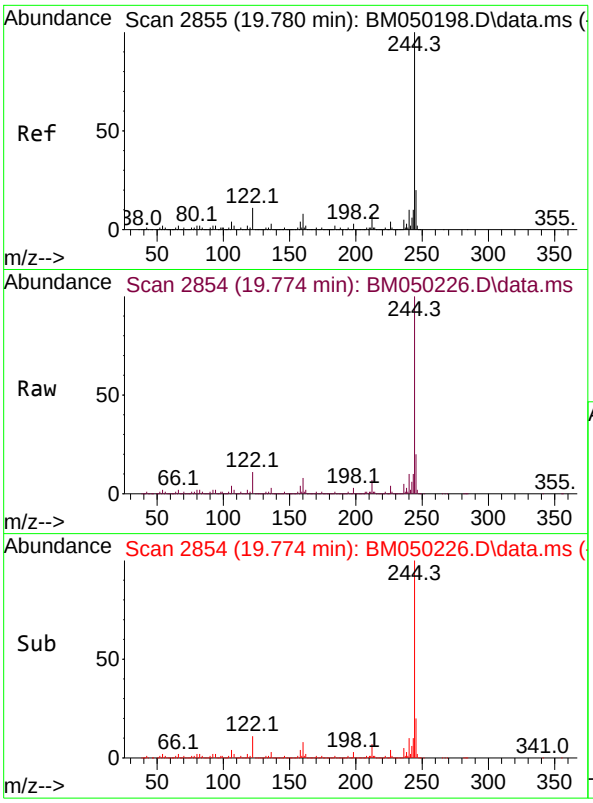


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.374 min Scan# 3126
Delta R.T. -0.012 min
Lab File: BM050226.D
Acq: 06 Jun 2025 23:22

Tgt Ion:240 Resp: 1254575

Ion	Ratio	Lower	Upper
240	100		
120	11.3	9.0	13.4
236	25.1	20.7	31.1



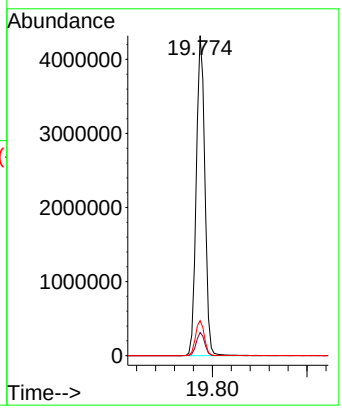


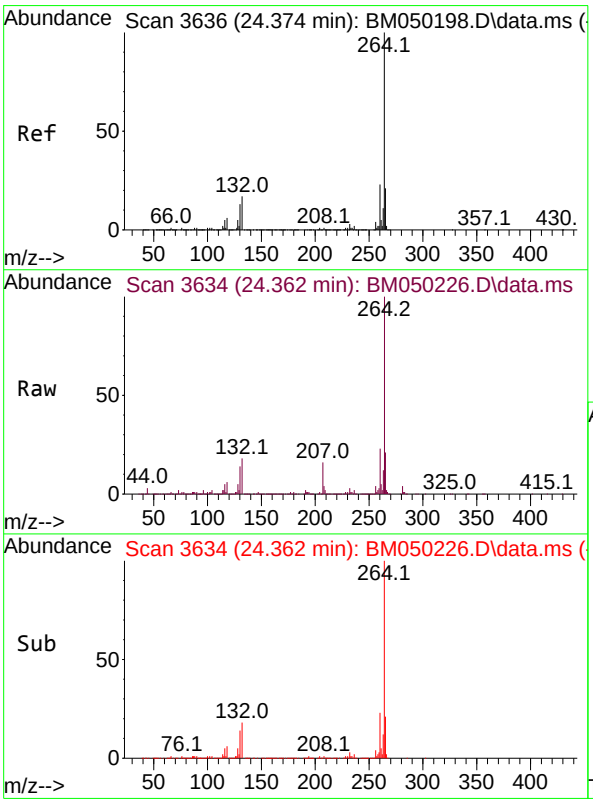
#79
Terphenyl-d14
Concen: 82.273 ng
RT: 19.774 min Scan# 28
Delta R.T. -0.012 min
Lab File: BM050226.D
Acq: 06 Jun 2025 23:22

Instrument :
BNA_M
ClientSampleId :
PB168271TB

Tgt Ion:244 Resp: 5446768

Ion	Ratio	Lower	Upper
244	100		
212	7.3	6.0	9.0
122	10.9	8.6	12.8

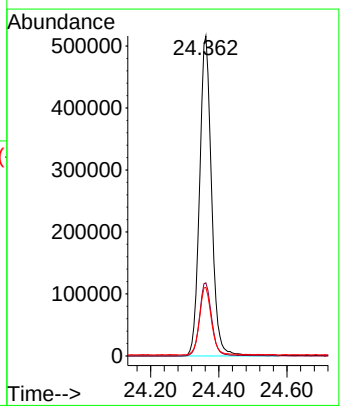




#86
Perylene-d12
Concen: 20.000 ng
RT: 24.362 min Scan# 3634
Delta R.T. -0.012 min
Lab File: BM050226.D
Acq: 06 Jun 2025 23:22

Tgt Ion:264 Resp: 1261316

Ion	Ratio	Lower	Upper
264	100		
260	22.8	18.6	28.0
265	21.4	16.8	25.2



Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM060625\
Data File : BM050229.D
Acq On : 07 Jun 2025 01:21
Operator : RC/JU
Sample : Q2198-02
Misc :
ALS Vial : 27 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
B-202-SB02

Quant Time: Jun 07 03:28:20 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM060525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jun 05 16:20:25 2025
Response via : Initial Calibration

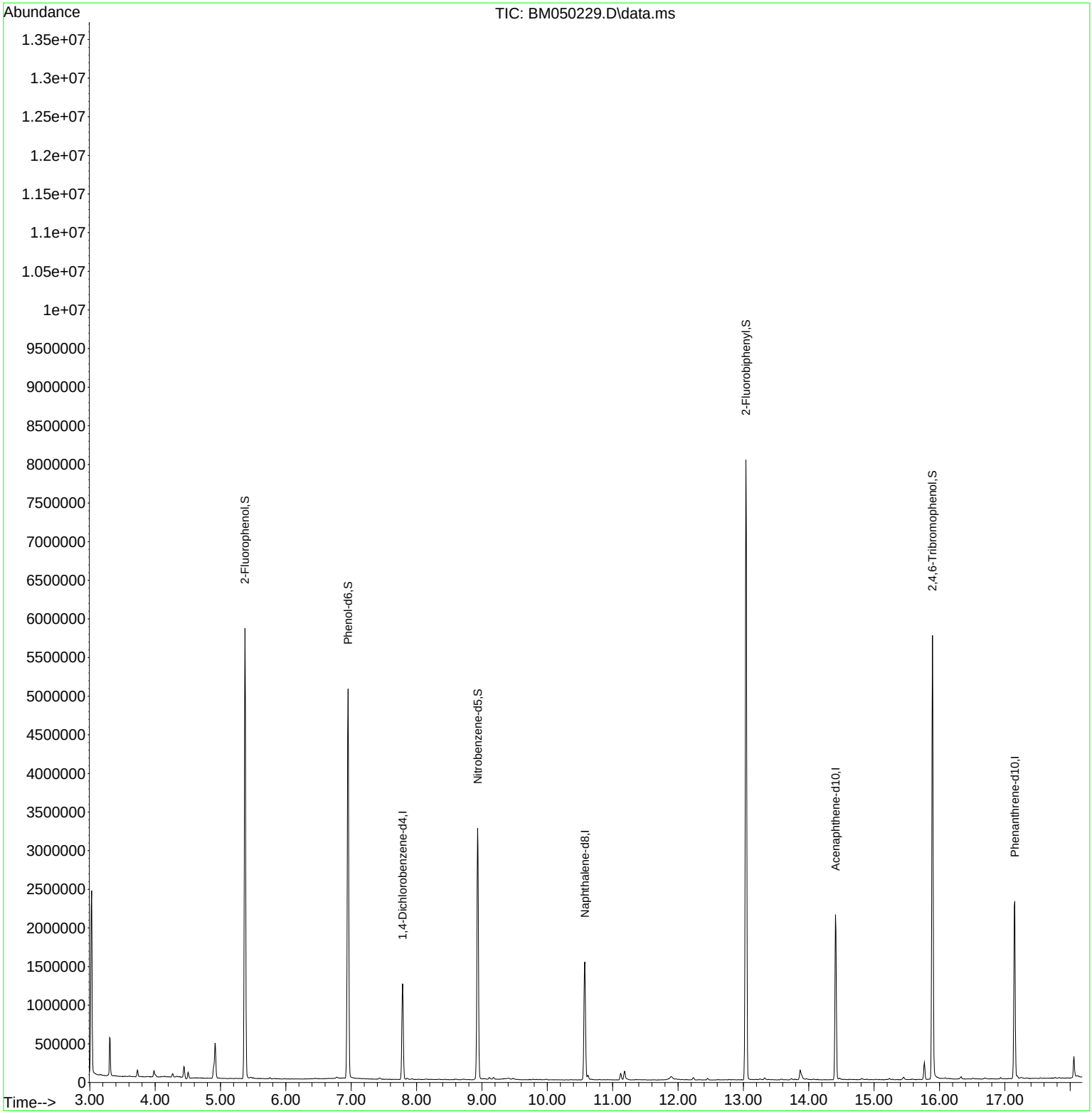
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.787	152	344497	20.000	ng	0.00
21) Naphthalene-d8	10.575	136	1326486	20.000	ng	0.00
39) Acenaphthene-d10	14.410	164	732372	20.000	ng	0.00
64) Phenanthrene-d10	17.151	188	1299493	20.000	ng	0.00
76) Chrysene-d12	21.374	240	1203452	20.000	ng	-0.01
86) Perylene-d12	24.356	264	1242718	20.000	ng	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.375	112	2727743	132.084	ng	0.00
7) Phenol-d6	6.951	99	3224738	118.618	ng	0.00
23) Nitrobenzene-d5	8.934	82	2060347	80.781	ng	-0.01
42) 2,4,6-Tribromophenol	15.892	330	1038444	124.660	ng	-0.01
45) 2-Fluorobiphenyl	13.039	172	4124414	76.243	ng	-0.01
79) Terphenyl-d14	19.774	244	5203647	81.940	ng	-0.01
Target Compounds						Qvalue

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM060625\
Data File : BM050229.D
Acq On : 07 Jun 2025 01:21
Operator : RC/JU
Sample : Q2198-02
Misc :
ALS Vial : 27 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
B-202-SB02

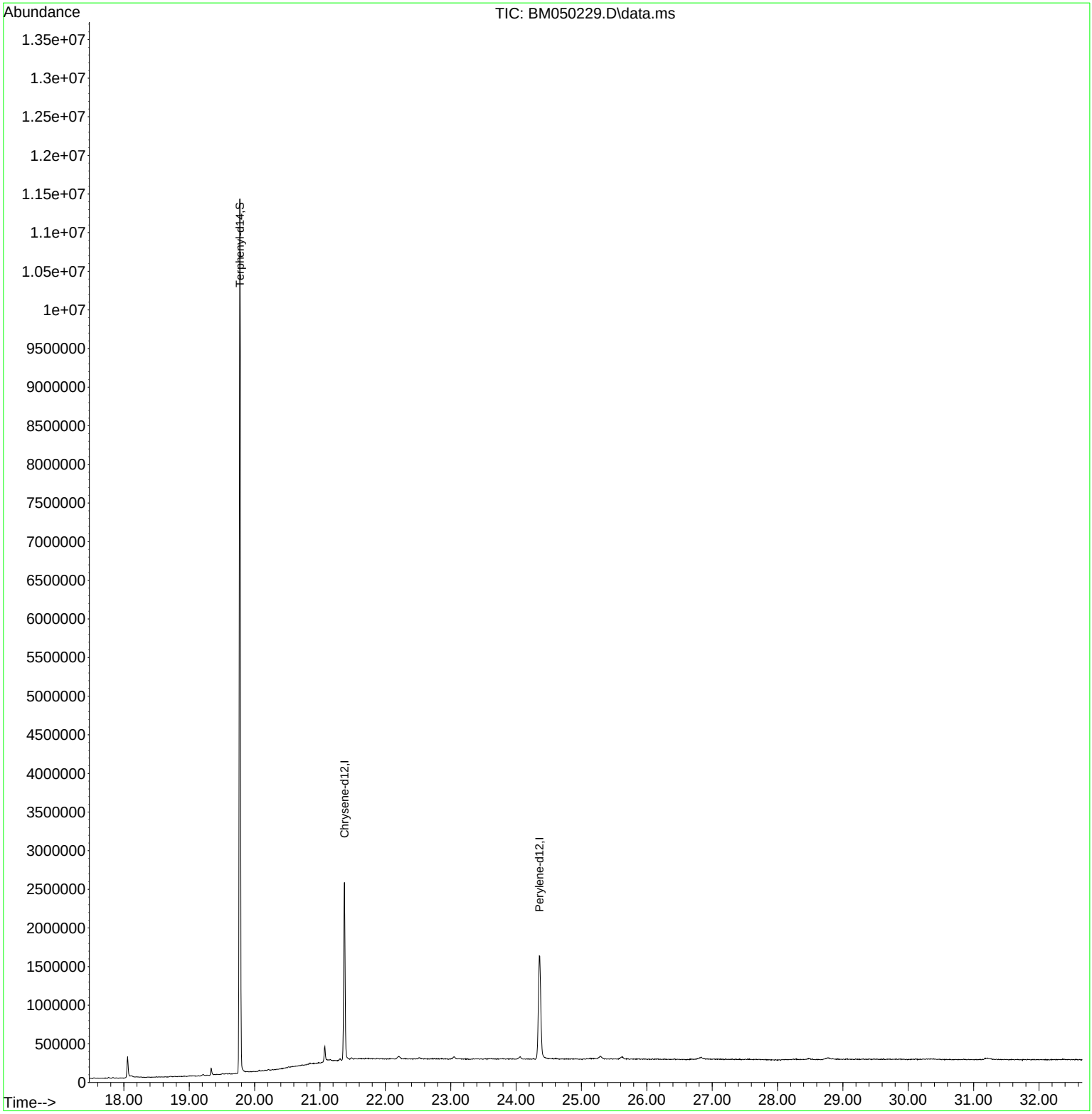
Quant Time: Jun 07 03:28:20 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM060525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jun 05 16:20:25 2025
Response via : Initial Calibration

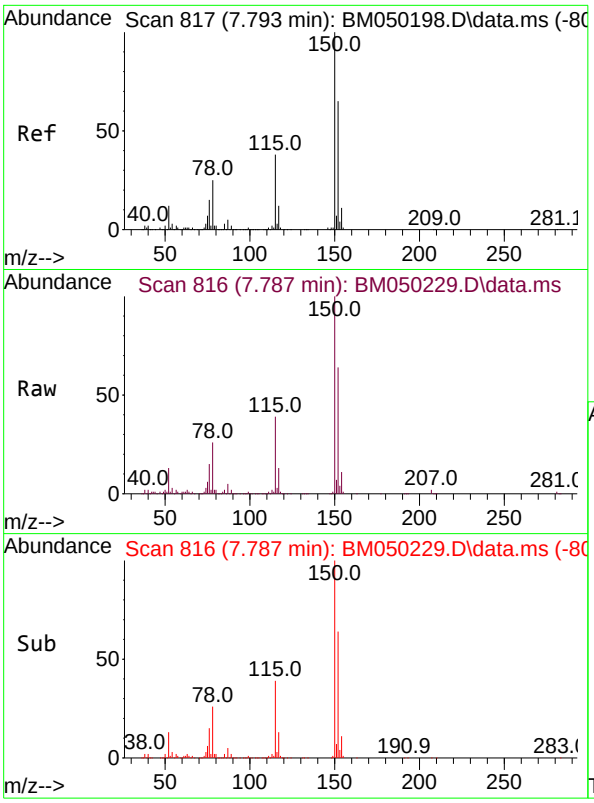


Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM060625\
Data File : BM050229.D
Acq On : 07 Jun 2025 01:21
Operator : RC/JU
Sample : Q2198-02
Misc :
ALS Vial : 27 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
B-202-SB02

Quant Time: Jun 07 03:28:20 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM060525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jun 05 16:20:25 2025
Response via : Initial Calibration



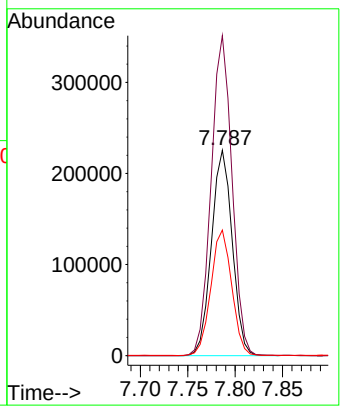


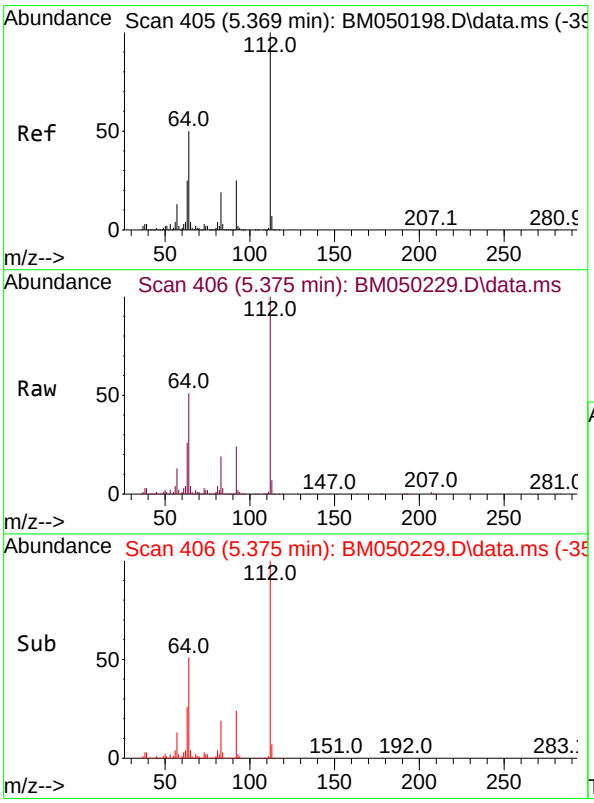
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.787 min Scan# 81
Delta R.T. -0.006 min
Lab File: BM050229.D
Acq: 07 Jun 2025 01:21

Instrument :
BNA_M
ClientSampleId :
B-202-SB02

Tgt Ion:152 Resp: 344497

Ion	Ratio	Lower	Upper
152	100		
150	155.8	122.2	183.4
115	61.2	46.3	69.5

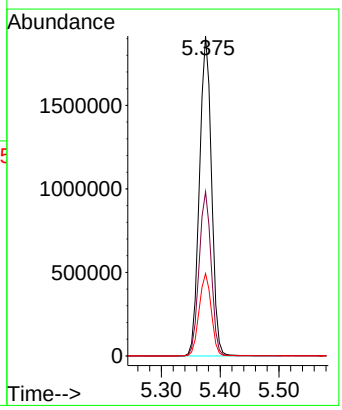


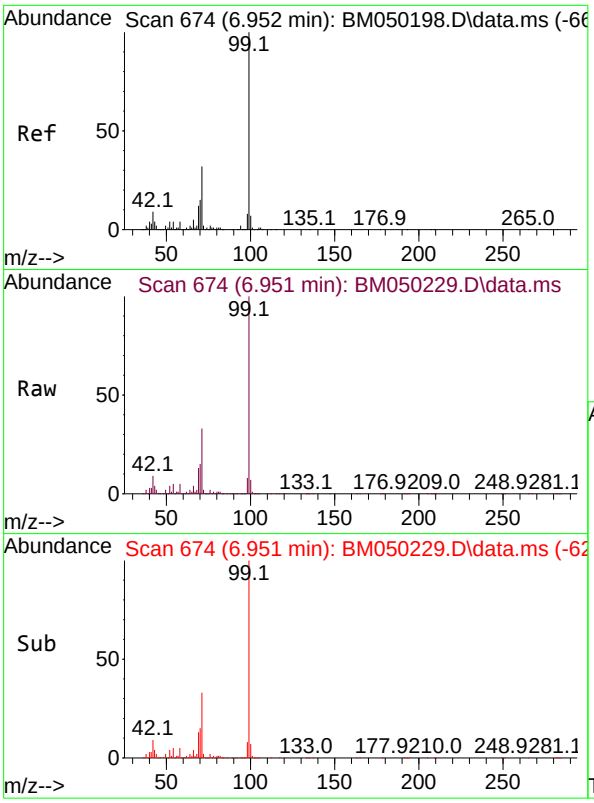


#5
2-Fluorophenol
Concen: 132.084 ng
RT: 5.375 min Scan# 406
Delta R.T. -0.000 min
Lab File: BM050229.D
Acq: 07 Jun 2025 01:21

Tgt Ion:112 Resp: 2727743

Ion	Ratio	Lower	Upper
112	100		
64	51.3	39.8	59.6
63	25.7	19.8	29.8



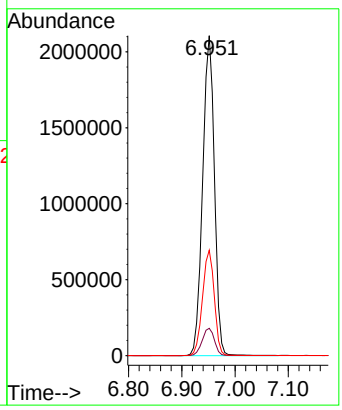


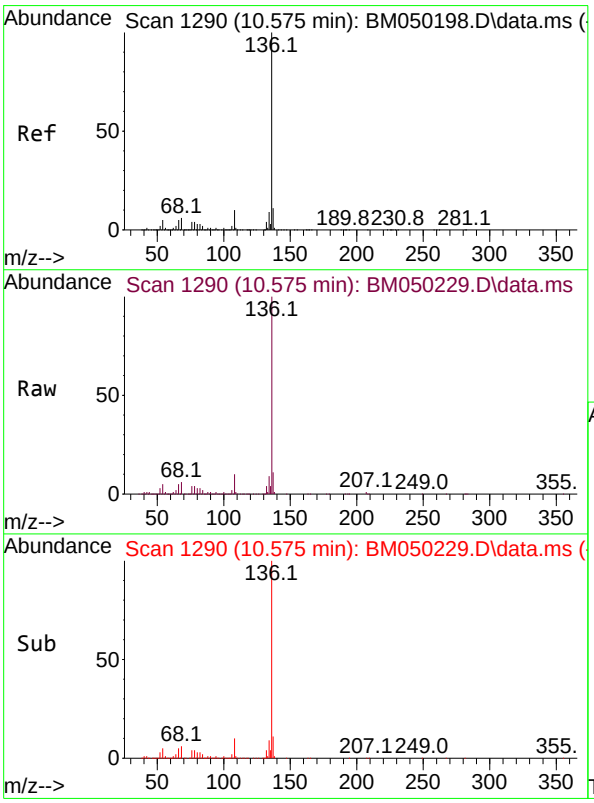
#7
Phenol-d6
Concen: 118.618 ng
RT: 6.951 min Scan# 6
Delta R.T. -0.006 min
Lab File: BM050229.D
Acq: 07 Jun 2025 01:21

Instrument :
BNA_M
ClientSampleId :
B-202-SB02

Tgt Ion: 99 Resp: 3224738

Ion	Ratio	Lower	Upper
99	100		
42	8.6	6.9	10.3
71	32.9	25.3	37.9

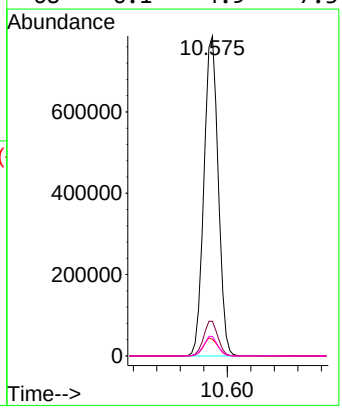


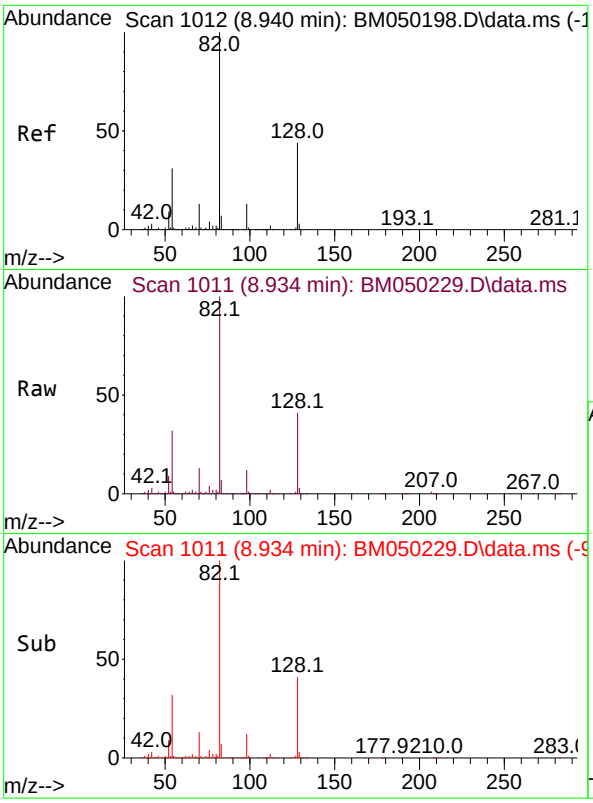


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.575 min Scan# 1290
Delta R.T. -0.006 min
Lab File: BM050229.D
Acq: 07 Jun 2025 01:21

Tgt Ion:136 Resp: 1326486

Ion	Ratio	Lower	Upper
136	100		
137	10.8	8.6	13.0
54	5.2	3.8	5.8
68	6.1	4.9	7.3



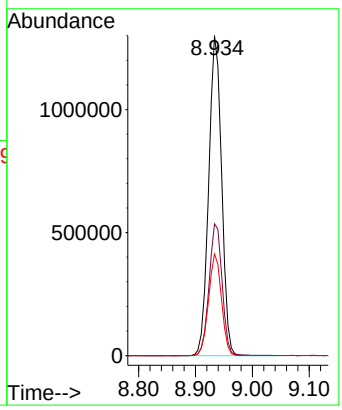


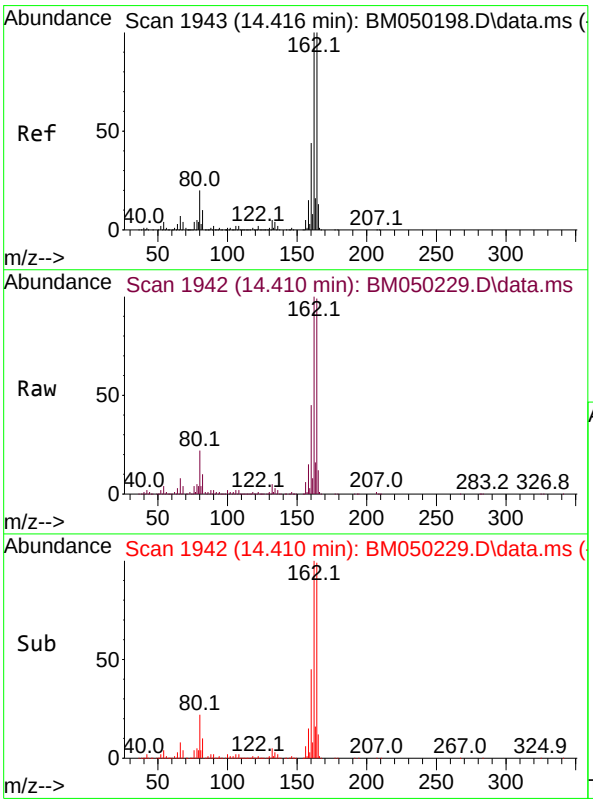
#23
Nitrobenzene-d5
Concen: 80.781 ng
RT: 8.934 min Scan# 10
Delta R.T. -0.012 min
Lab File: BM050229.D
Acq: 07 Jun 2025 01:21

Instrument :
BNA_M
ClientSampleId :
B-202-SB02

Tgt Ion: 82 Resp: 2060347

Ion	Ratio	Lower	Upper
82	100		
128	41.2	35.2	52.8
54	31.8	24.5	36.7

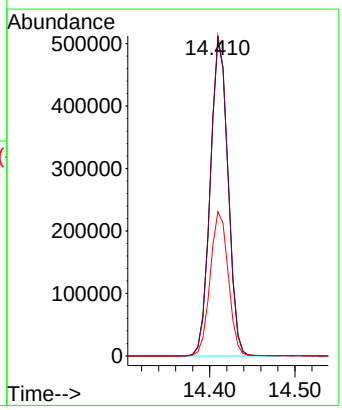


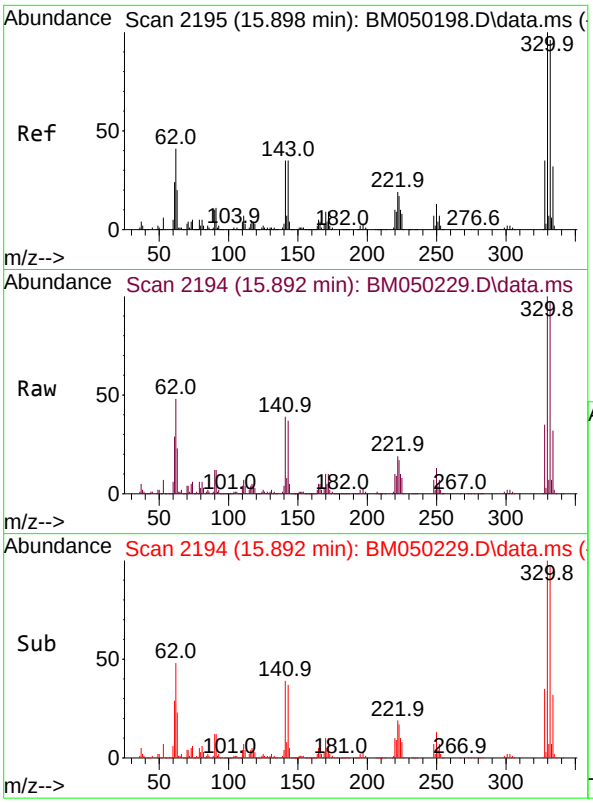


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.410 min Scan# 1942
Delta R.T. -0.006 min
Lab File: BM050229.D
Acq: 07 Jun 2025 01:21

Tgt Ion:164 Resp: 732372

Ion	Ratio	Lower	Upper
164	100		
162	101.1	80.2	120.4
160	45.6	35.7	53.5



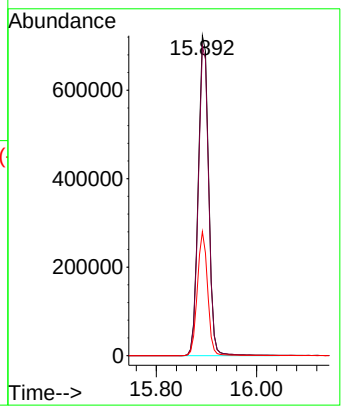


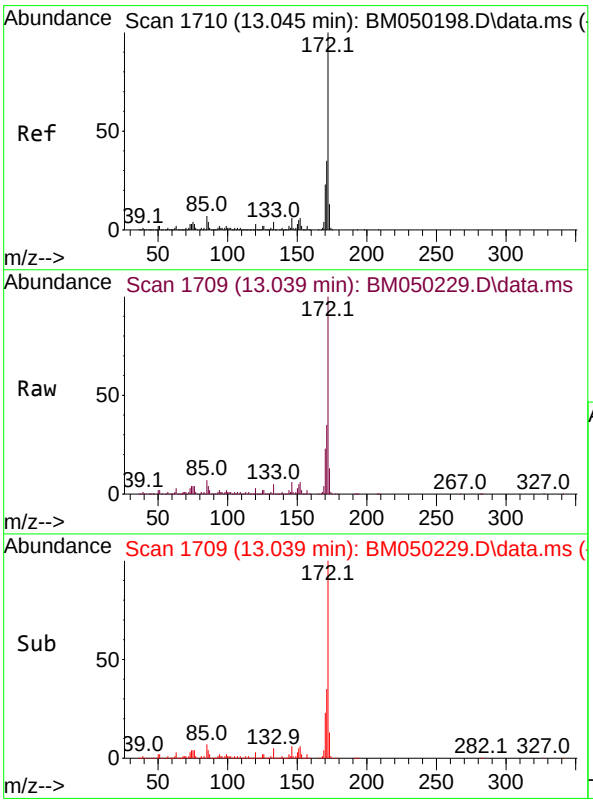
#42
2,4,6-Tribromophenol
Concen: 124.660 ng
RT: 15.892 min Scan# 21
Delta R.T. -0.012 min
Lab File: BM050229.D
Acq: 07 Jun 2025 01:21

Instrument :
BNA_M
ClientSampleId :
B-202-SB02

Tgt Ion:330 Resp: 1038444

Ion	Ratio	Lower	Upper
330	100		
332	96.5	77.5	116.3
141	38.1	28.8	43.2

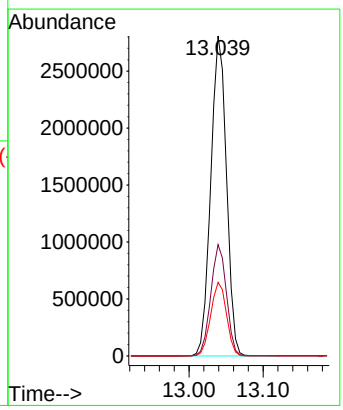


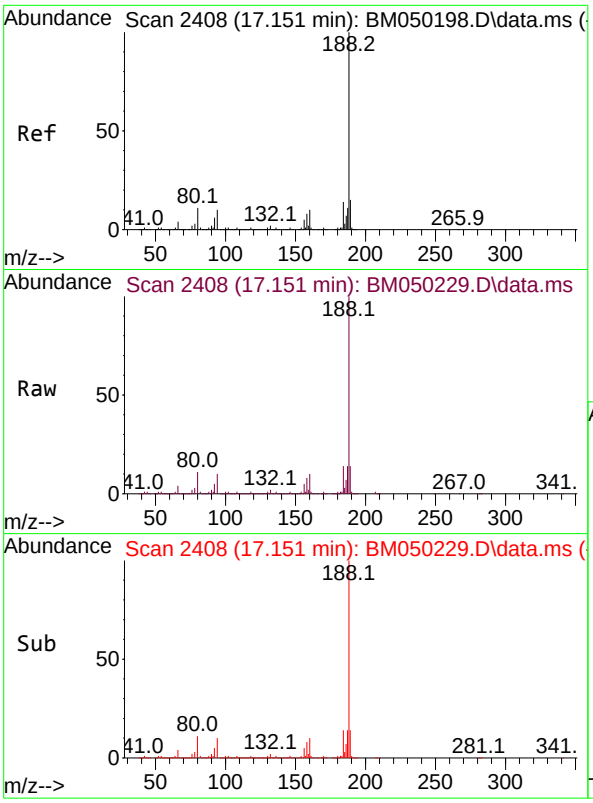


#45
2-Fluorobiphenyl
Concen: 76.243 ng
RT: 13.039 min Scan# 1709
Delta R.T. -0.012 min
Lab File: BM050229.D
Acq: 07 Jun 2025 01:21

Tgt Ion:172 Resp: 4124414

Ion	Ratio	Lower	Upper
172	100		
171	34.8	27.8	41.6
170	23.0	18.6	27.8



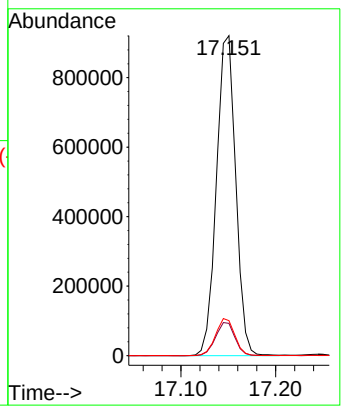


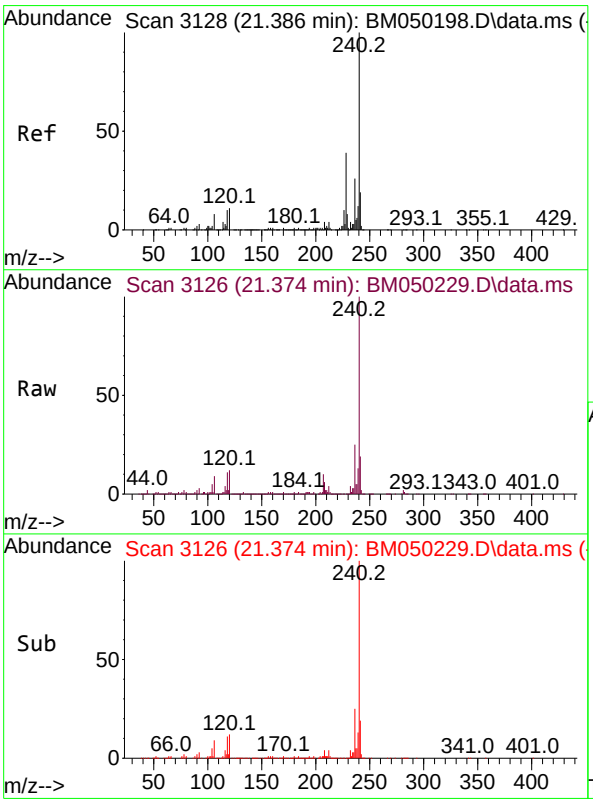
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.151 min Scan# 24
Delta R.T. -0.006 min
Lab File: BM050229.D
Acq: 07 Jun 2025 01:21

Instrument :
BNA_M
ClientSampleId :
B-202-SB02

Tgt Ion:188 Resp: 1299493

Ion	Ratio	Lower	Upper
188	100		
94	10.1	8.1	12.1
80	10.9	8.6	13.0

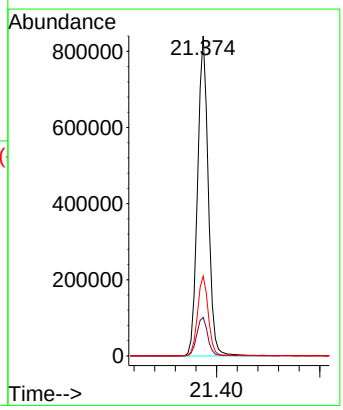


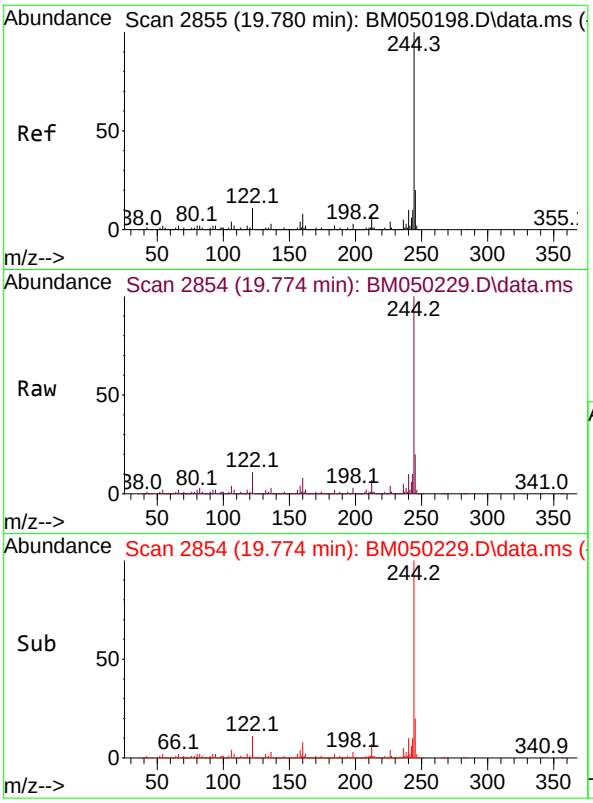


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.374 min Scan# 3126
Delta R.T. -0.012 min
Lab File: BM050229.D
Acq: 07 Jun 2025 01:21

Tgt Ion:240 Resp: 1203452

Ion	Ratio	Lower	Upper
240	100		
120	12.0	9.0	13.4
236	24.9	20.7	31.1



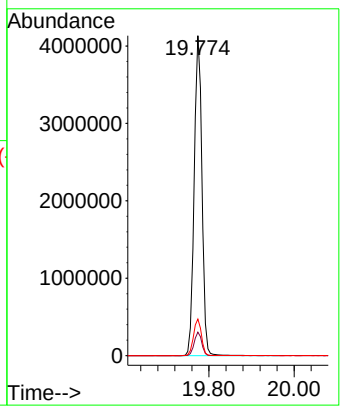


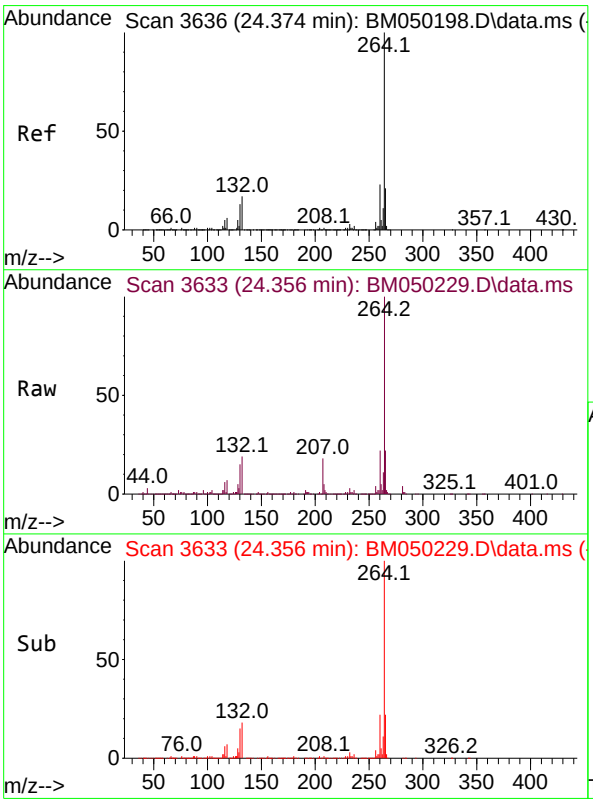
#79
Terphenyl-d14
Concen: 81.940 ng
RT: 19.774 min Scan# 2
Delta R.T. -0.012 min
Lab File: BM050229.D
Acq: 07 Jun 2025 01:21

Instrument :
BNA_M
ClientSampleId :
B-202-SB02

Tgt Ion:244 Resp: 5203647

Ion	Ratio	Lower	Upper
244	100		
212	7.3	6.0	9.0
122	11.4	8.6	12.8

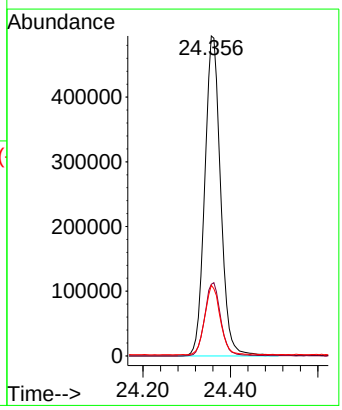




#86
Perylene-d12
Concen: 20.000 ng
RT: 24.356 min Scan# 3633
Delta R.T. -0.018 min
Lab File: BM050229.D
Acq: 07 Jun 2025 01:21

Tgt Ion:264 Resp: 1242718

Ion	Ratio	Lower	Upper
264	100		
260	22.4	18.6	28.0
265	22.1	16.8	25.2



Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM060625\
Data File : BM050230.D
Acq On : 07 Jun 2025 02:01
Operator : RC/JU
Sample : Q2198-04
Misc :
ALS Vial : 28 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
B-207-SB02

Quant Time: Jun 07 03:28:35 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM060525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jun 05 16:20:25 2025
Response via : Initial Calibration

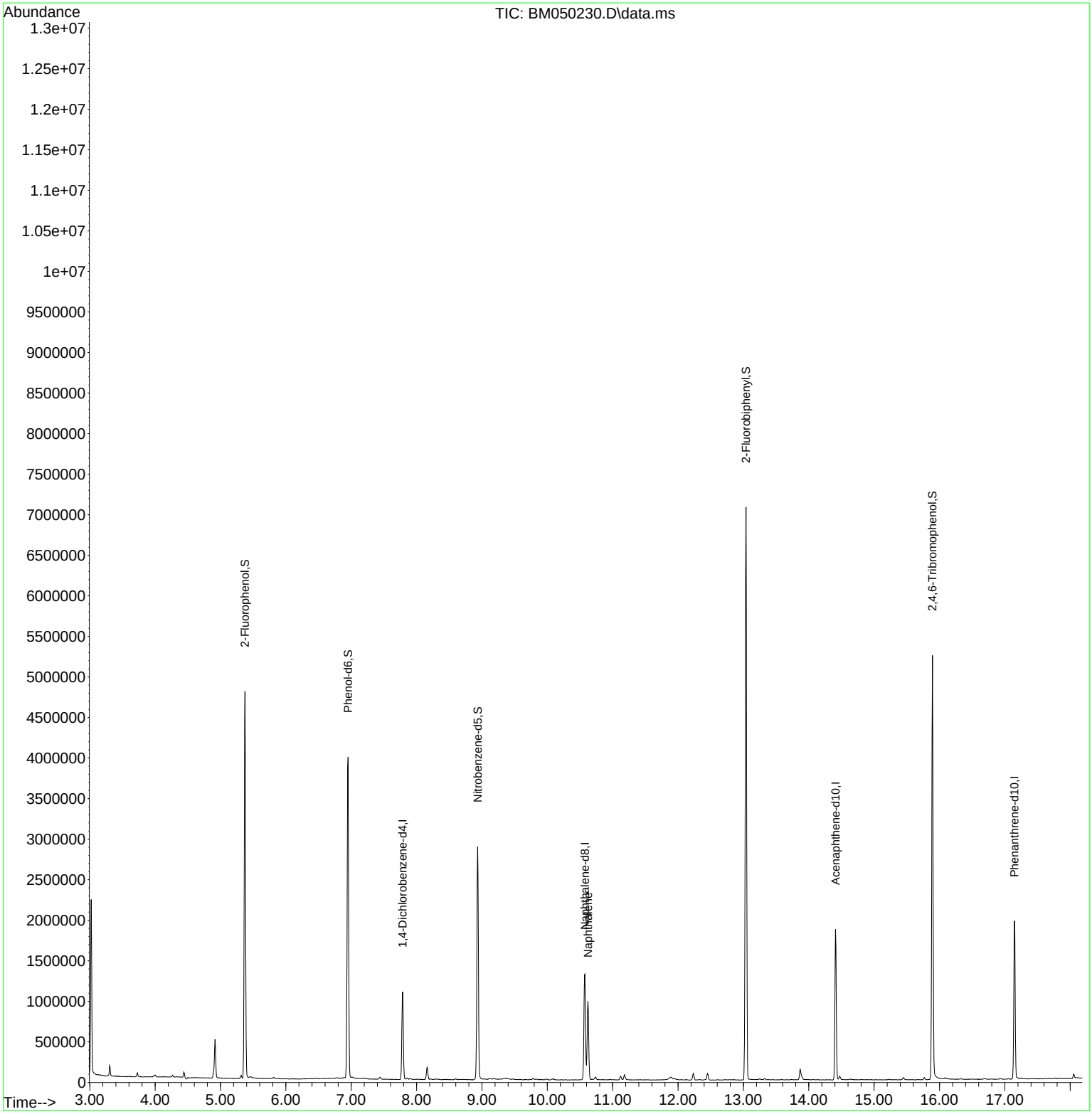
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.787	152	299355	20.000	ng	0.00
21) Naphthalene-d8	10.575	136	1125867	20.000	ng	0.00
39) Acenaphthene-d10	14.410	164	622474	20.000	ng	0.00
64) Phenanthrene-d10	17.145	188	1119241	20.000	ng	-0.01
76) Chrysene-d12	21.374	240	1048287	20.000	ng	-0.01
86) Perylene-d12	24.356	264	1143100	20.000	ng	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.375	112	2234637	124.524	ng	0.00
7) Phenol-d6	6.951	99	2556777	108.230	ng	0.00
23) Nitrobenzene-d5	8.934	82	1795563	82.944	ng	-0.01
42) 2,4,6-Tribromophenol	15.892	330	914676	129.188	ng	-0.01
45) 2-Fluorobiphenyl	13.039	172	3603780	78.380	ng	-0.01
79) Terphenyl-d14	19.774	244	4789764	86.586	ng	-0.01
Target Compounds						Qvalue
31) Naphthalene	10.622	128	803533	13.804	ng	100

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM060625\
Data File : BM050230.D
Acq On : 07 Jun 2025 02:01
Operator : RC/JU
Sample : Q2198-04
Misc :
ALS Vial : 28 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
B-207-SB02

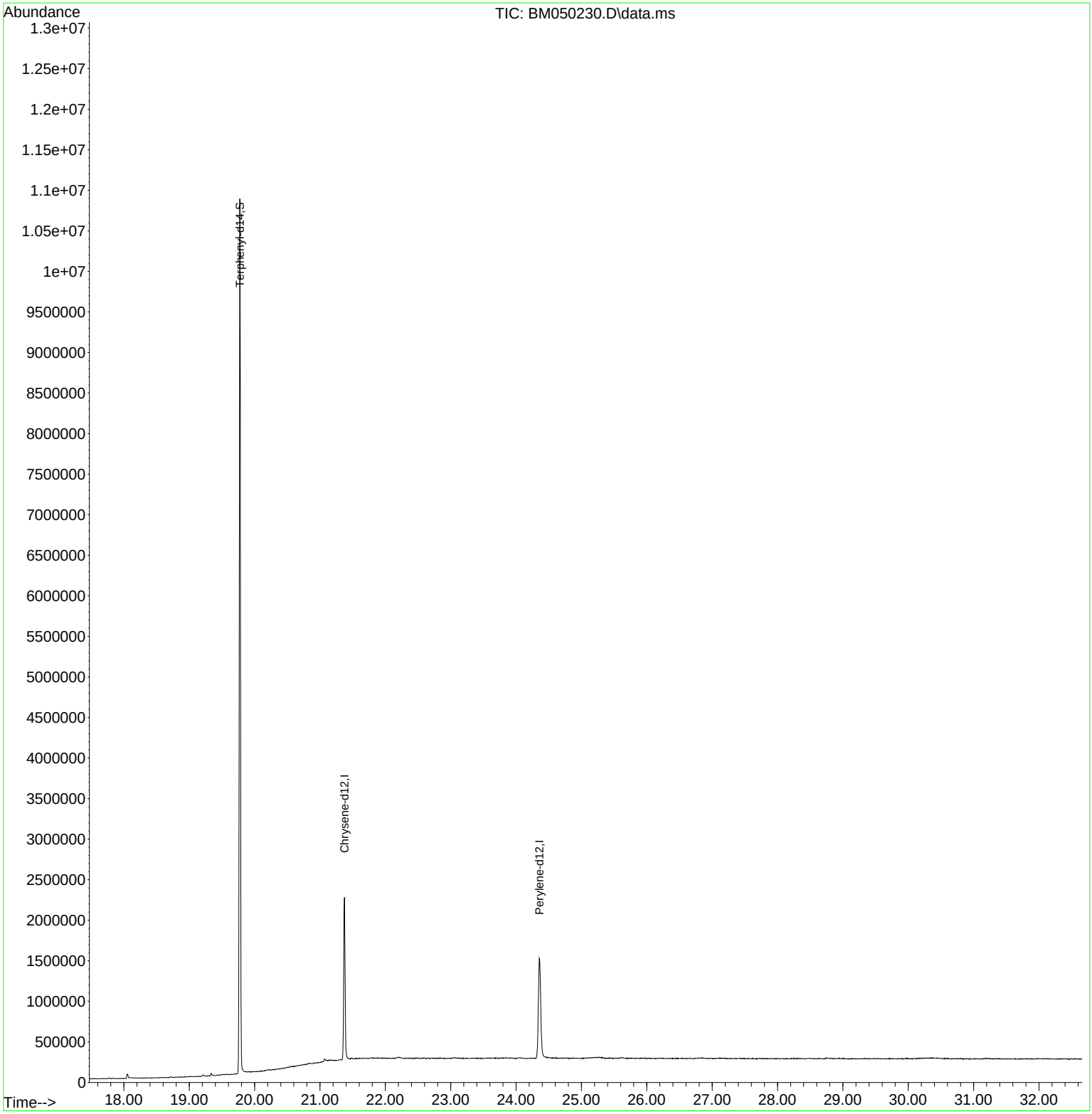
Quant Time: Jun 07 03:28:35 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM060525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jun 05 16:20:25 2025
Response via : Initial Calibration

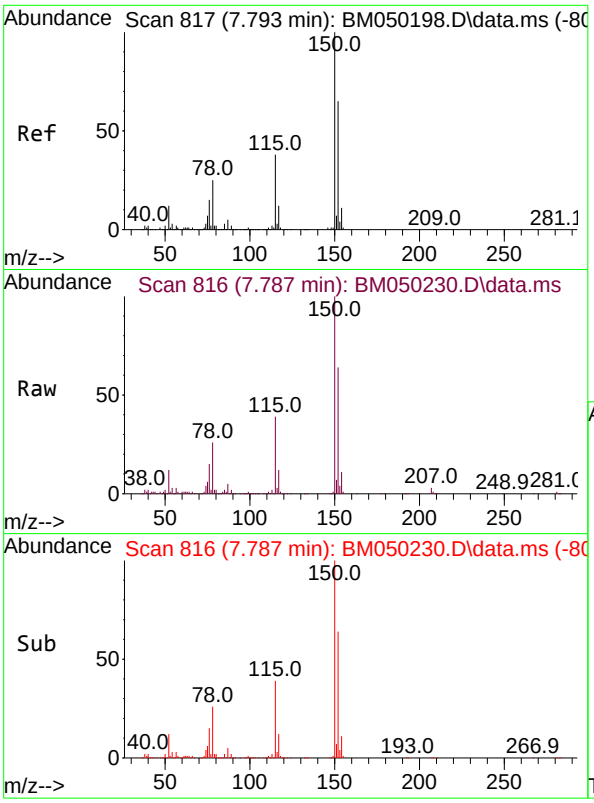


Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM060625\
Data File : BM050230.D
Acq On : 07 Jun 2025 02:01
Operator : RC/JU
Sample : Q2198-04
Misc :
ALS Vial : 28 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
B-207-SB02

Quant Time: Jun 07 03:28:35 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM060525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jun 05 16:20:25 2025
Response via : Initial Calibration



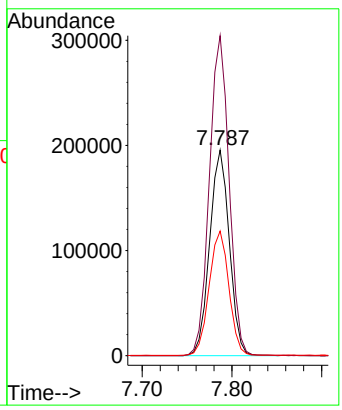


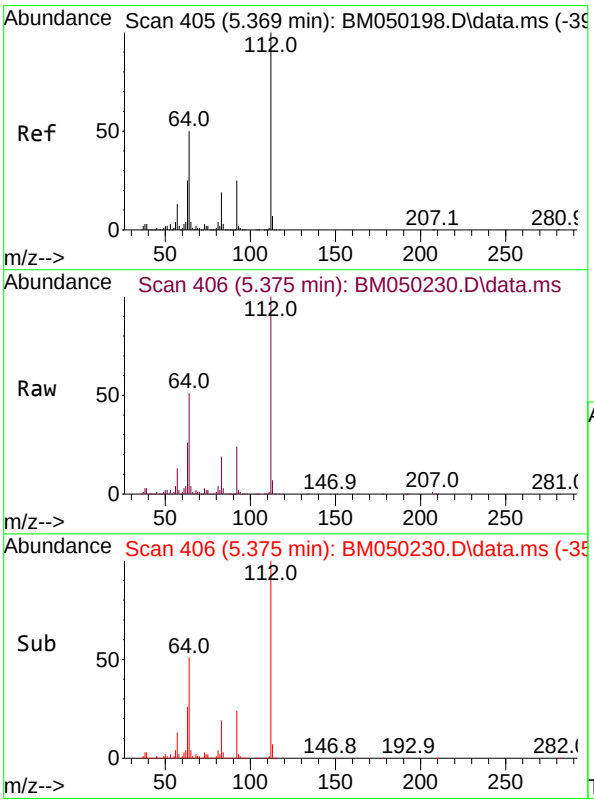
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.787 min Scan# 81
Delta R.T. -0.006 min
Lab File: BM050230.D
Acq: 07 Jun 2025 02:01

Instrument :
BNA_M
ClientSampleId :
B-207-SB02

Tgt Ion:152 Resp: 299355

Ion	Ratio	Lower	Upper
152	100		
150	155.7	122.2	183.4
115	60.7	46.3	69.5

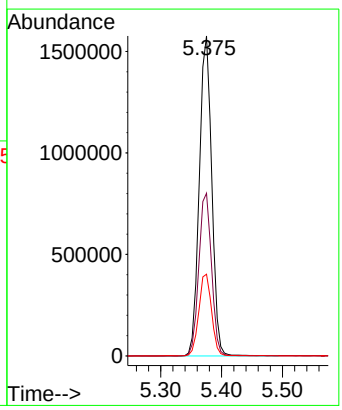


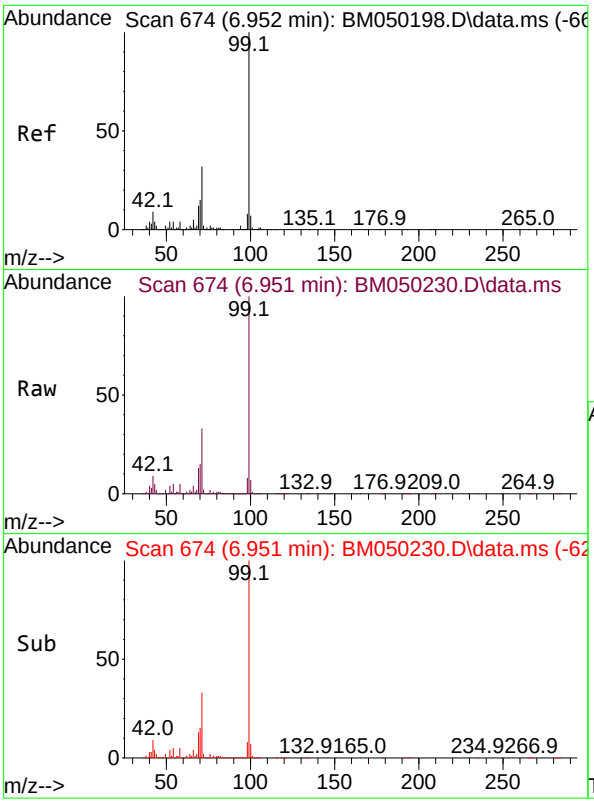


#5
2-Fluorophenol
Concen: 124.524 ng
RT: 5.375 min Scan# 406
Delta R.T. 0.000 min
Lab File: BM050230.D
Acq: 07 Jun 2025 02:01

Tgt Ion:112 Resp: 2234637

Ion	Ratio	Lower	Upper
112	100		
64	50.8	39.8	59.6
63	25.5	19.8	29.8



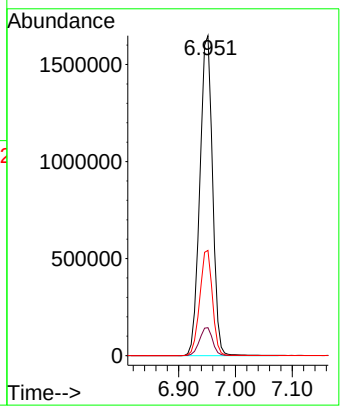


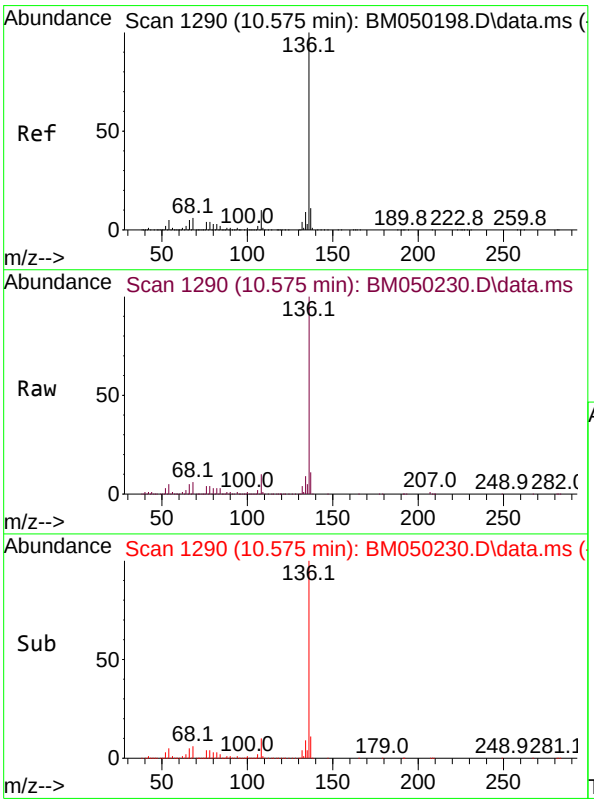
#7
Phenol-d6
Concen: 108.230 ng
RT: 6.951 min Scan# 6
Delta R.T. -0.006 min
Lab File: BM050230.D
Acq: 07 Jun 2025 02:01

Instrument :
BNA_M
ClientSampleId :
B-207-SB02

Tgt Ion: 99 Resp: 2556777

Ion	Ratio	Lower	Upper
99	100		
42	8.7	6.9	10.3
71	32.9	25.3	37.9

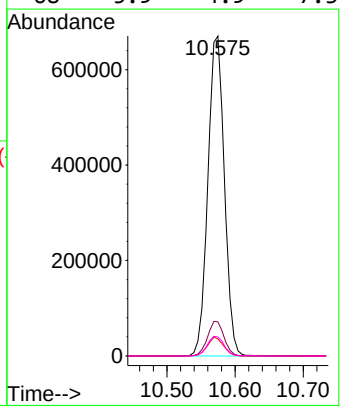


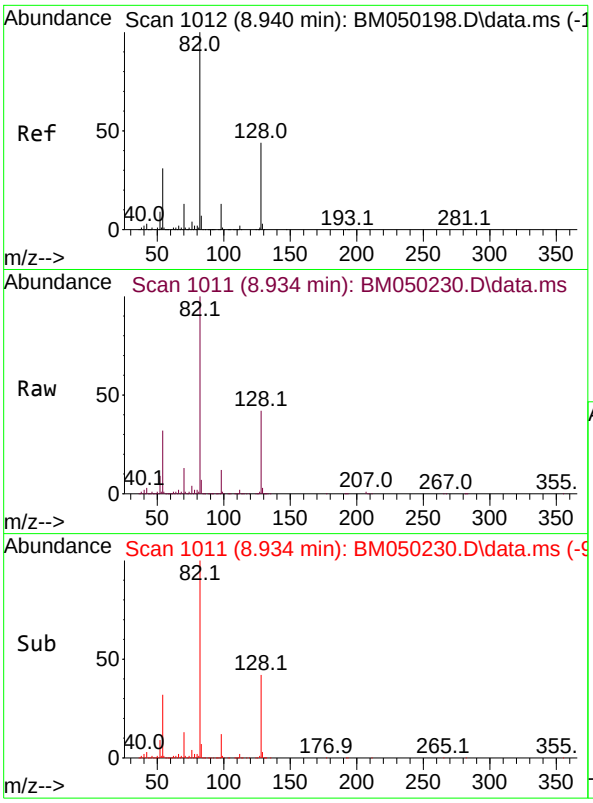


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.575 min Scan# 1290
Delta R.T. -0.006 min
Lab File: BM050230.D
Acq: 07 Jun 2025 02:01

Tgt Ion:136 Resp: 1125867

Ion	Ratio	Lower	Upper
136	100		
137	10.6	8.6	13.0
54	5.3	3.8	5.8
68	5.9	4.9	7.3



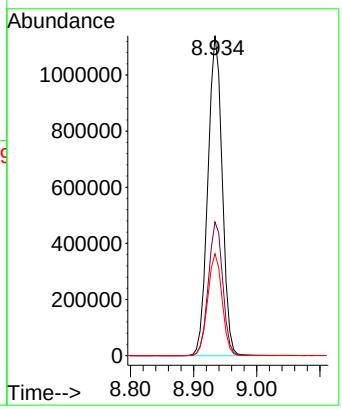


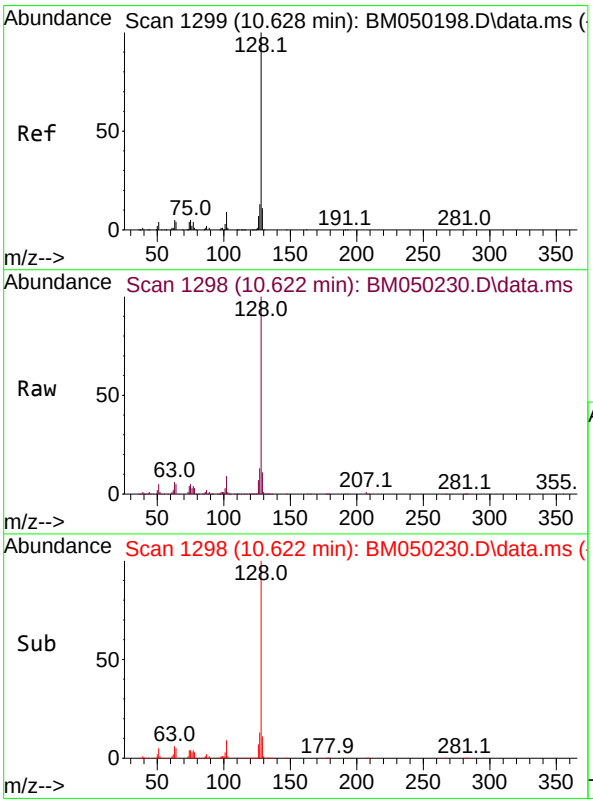
#23
Nitrobenzene-d5
Concen: 82.944 ng
RT: 8.934 min Scan# 1
Delta R.T. -0.012 min
Lab File: BM050230.D
Acq: 07 Jun 2025 02:01

Instrument :
BNA_M
ClientSampleId :
B-207-SB02

Tgt Ion: 82 Resp: 1795563

Ion	Ratio	Lower	Upper
82	100		
128	41.8	35.2	52.8
54	31.8	24.5	36.7

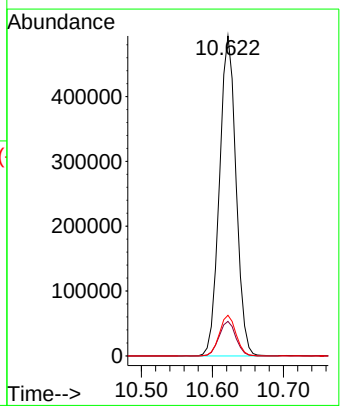


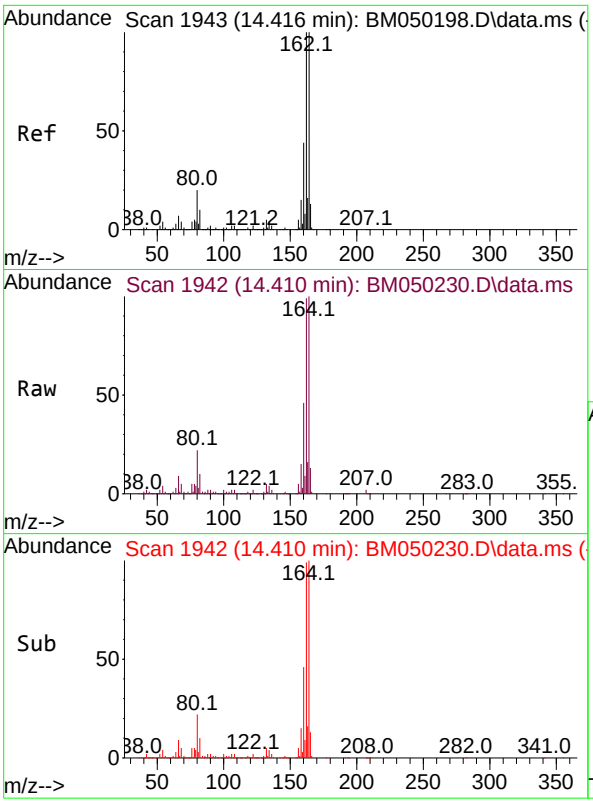


#31
Naphthalene
Concen: 13.804 ng
RT: 10.622 min Scan# 1298
Delta R.T. -0.006 min
Lab File: BM050230.D
Acq: 07 Jun 2025 02:01

Tgt Ion:128 Resp: 803533

Ion	Ratio	Lower	Upper
128	100		
129	10.8	8.6	12.8
127	12.7	10.2	15.4



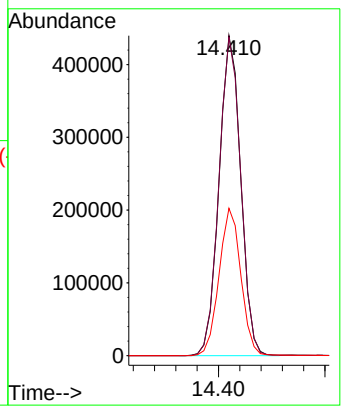


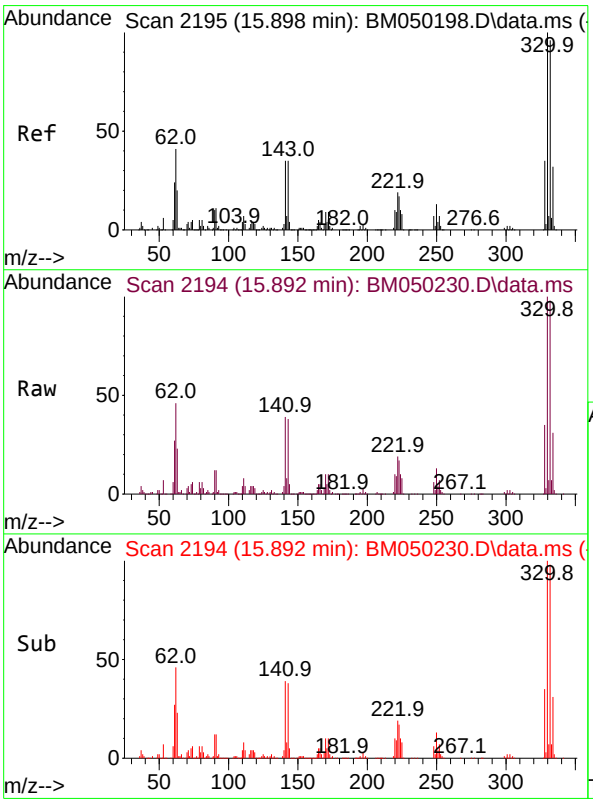
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.410 min Scan# 19
Delta R.T. -0.006 min
Lab File: BM050230.D
Acq: 07 Jun 2025 02:01

Instrument :
BNA_M
ClientSampleId :
B-207-SB02

Tgt Ion:164 Resp: 622474

Ion	Ratio	Lower	Upper
164	100		
162	99.5	80.2	120.4
160	46.0	35.7	53.5

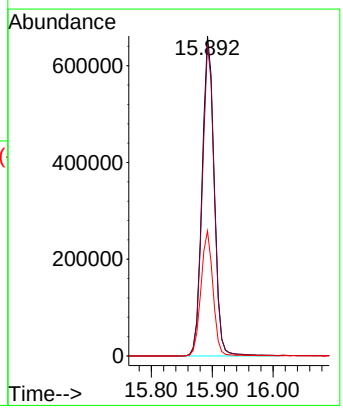


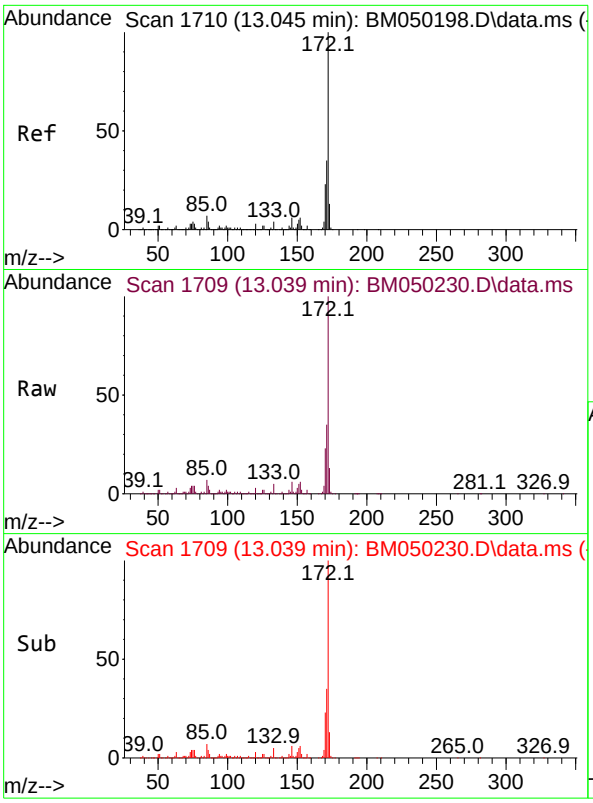


#42
2,4,6-Tribromophenol
Concen: 129.188 ng
RT: 15.892 min Scan# 2194
Delta R.T. -0.012 min
Lab File: BM050230.D
Acq: 07 Jun 2025 02:01

Tgt Ion:330 Resp: 914676

Ion	Ratio	Lower	Upper
330	100		
332	96.8	77.5	116.3
141	38.7	28.8	43.2



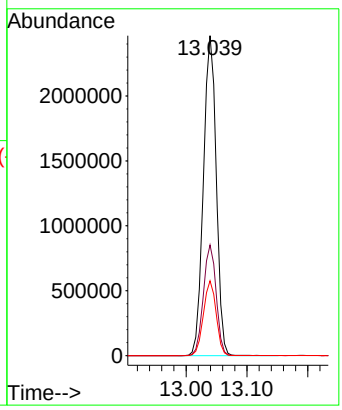


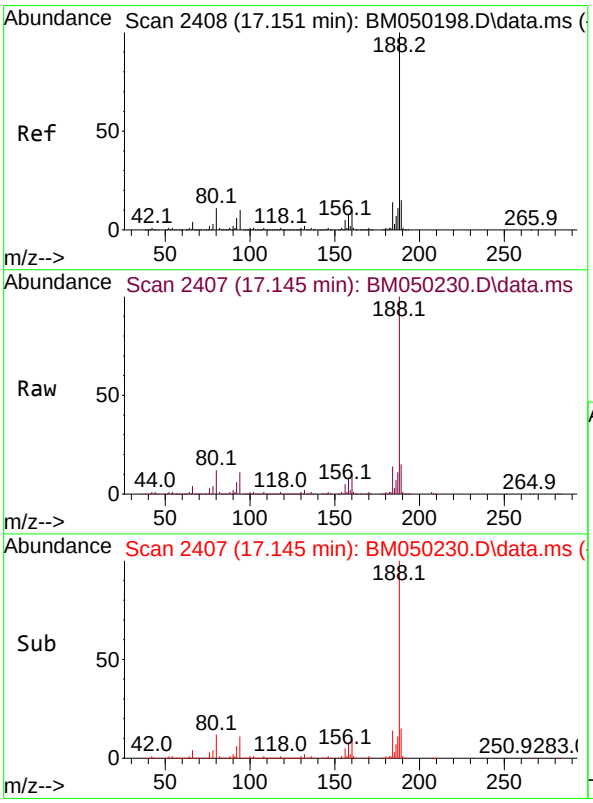
#45
2-Fluorobiphenyl
Concen: 78.380 ng
RT: 13.039 min Scan# 1
Delta R.T. -0.012 min
Lab File: BM050230.D
Acq: 07 Jun 2025 02:01

Instrument :
BNA_M
ClientSampleId :
B-207-SB02

Tgt Ion:172 Resp: 3603780

Ion	Ratio	Lower	Upper
172	100		
171	34.6	27.8	41.6
170	23.4	18.6	27.8

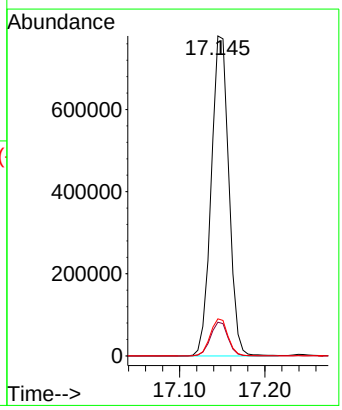


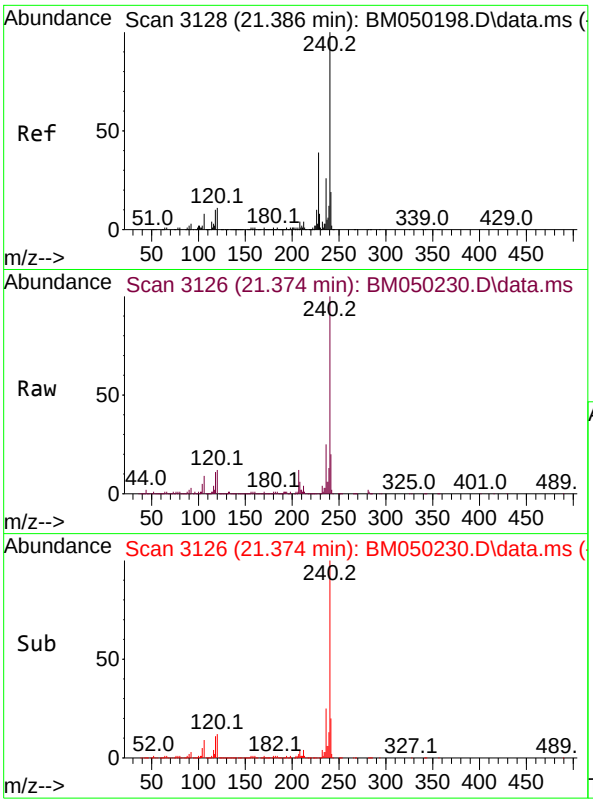


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.145 min Scan# 2407
Delta R.T. -0.012 min
Lab File: BM050230.D
Acq: 07 Jun 2025 02:01

Tgt Ion:188 Resp: 1119241

Ion	Ratio	Lower	Upper
188	100		
94	10.6	8.1	12.1
80	11.6	8.6	13.0



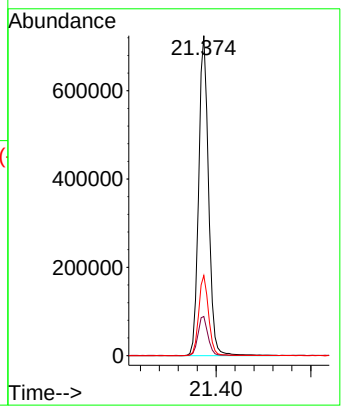


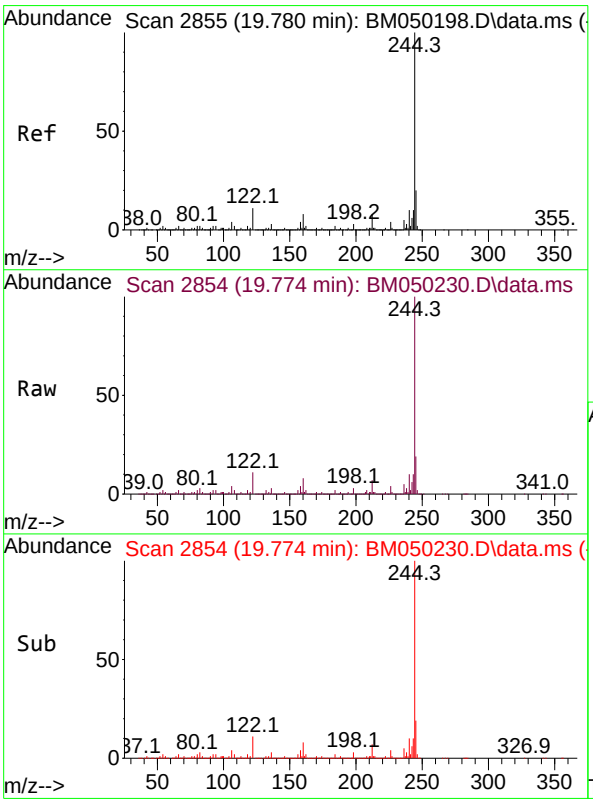
#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.374 min Scan# 31
Delta R.T. -0.012 min
Lab File: BM050230.D
Acq: 07 Jun 2025 02:01

Instrument :
BNA_M
ClientSampleId :
B-207-SB02

Tgt Ion:240 Resp: 1048287

Ion	Ratio	Lower	Upper
240	100		
120	12.2	9.0	13.4
236	25.0	20.7	31.1

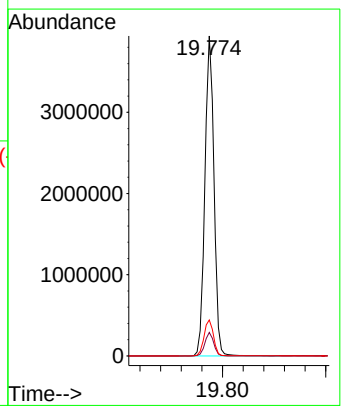


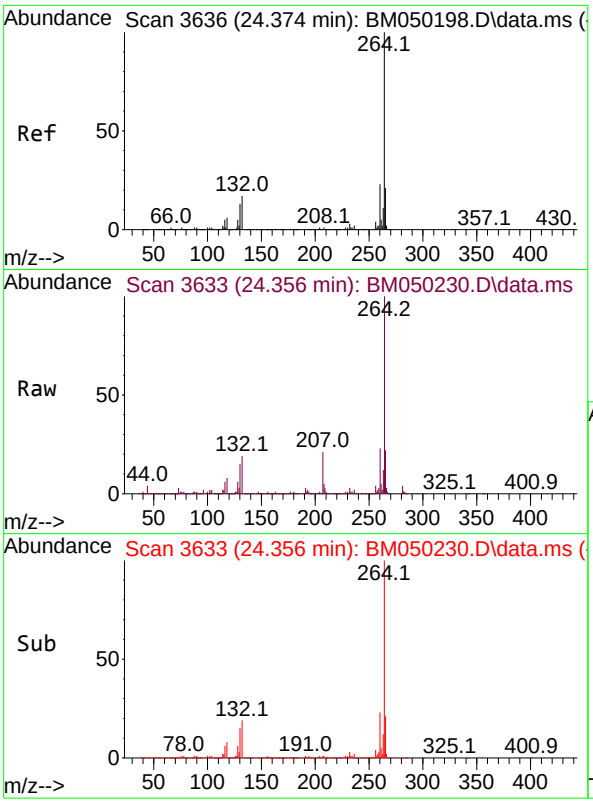


#79
Terphenyl-d14
Concen: 86.586 ng
RT: 19.774 min Scan# 2854
Delta R.T. -0.012 min
Lab File: BM050230.D
Acq: 07 Jun 2025 02:01

Tgt Ion:244 Resp: 4789764

Ion	Ratio	Lower	Upper
244	100		
212	7.3	6.0	9.0
122	11.2	8.6	12.8



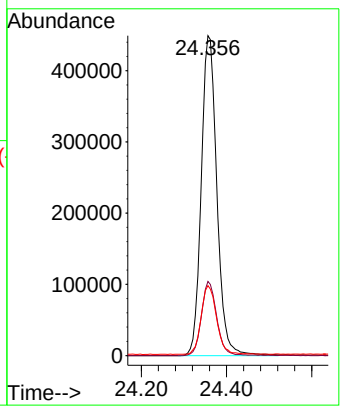


#86
Perylene-d12
Concen: 20.000 ng
RT: 24.356 min Scan# 3
Delta R.T. -0.018 min
Lab File: BM050230.D
Acq: 07 Jun 2025 02:01

Instrument :
BNA_M
ClientSampleId :
B-207-SB02

Tgt Ion:264 Resp: 1143100

Ion	Ratio	Lower	Upper
264	100		
260	23.2	18.6	28.0
265	21.9	16.8	25.2



Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM060625\
Data File : BM050224.D
Acq On : 06 Jun 2025 22:03
Operator : RC/JU
Sample : PB168314BL
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
PB168314BL

Quant Time: Jun 07 01:21:07 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM060525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jun 05 16:20:25 2025
Response via : Initial Calibration

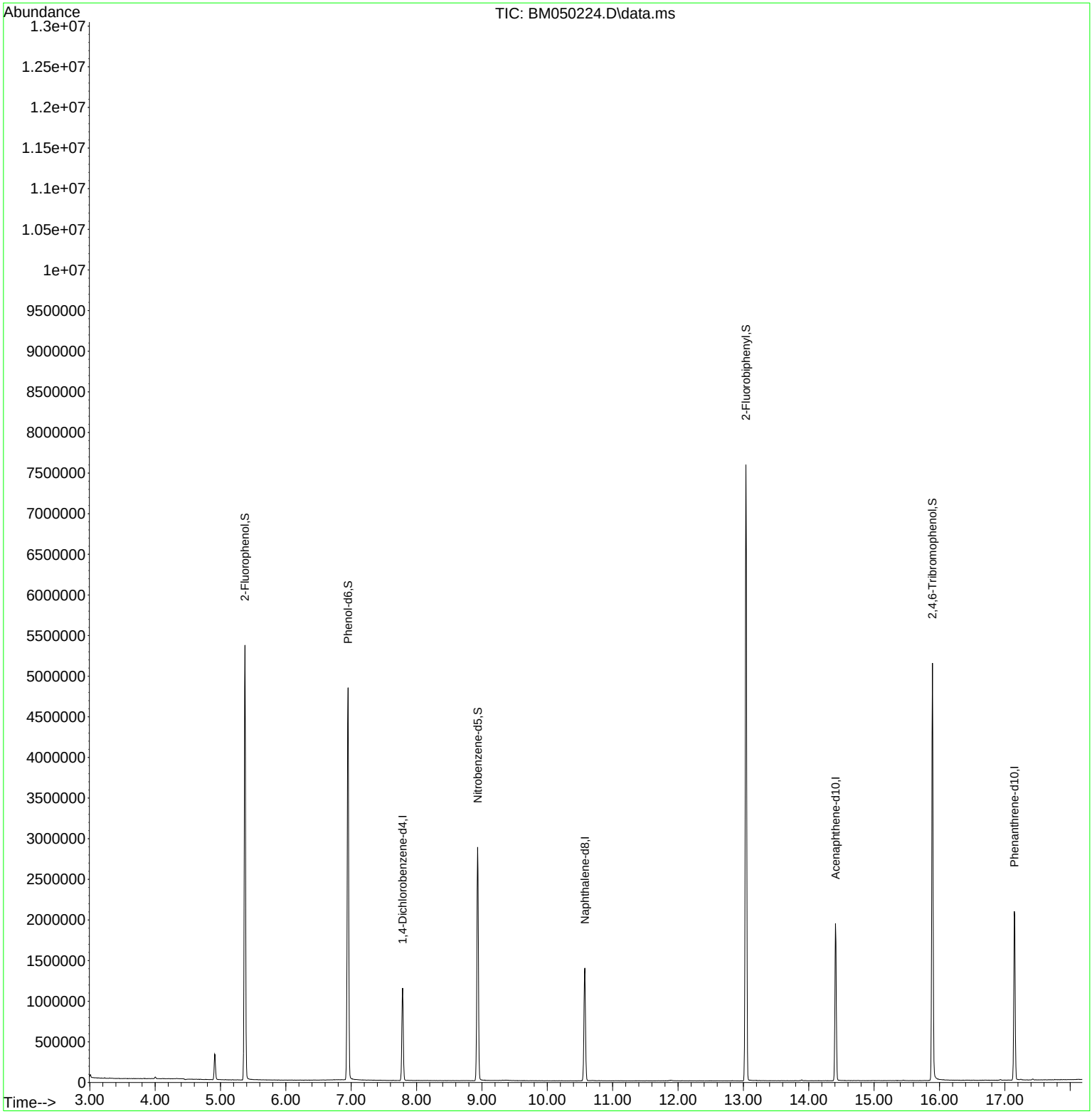
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.786	152	315983	20.000	ng	0.00
21) Naphthalene-d8	10.575	136	1181137	20.000	ng	0.00
39) Acenaphthene-d10	14.410	164	658679	20.000	ng	0.00
64) Phenanthrene-d10	17.145	188	1198309	20.000	ng	-0.01
76) Chrysene-d12	21.374	240	1134031	20.000	ng	-0.01
86) Perylene-d12	24.356	264	1193795	20.000	ng	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.375	112	2551038	134.675	ng	0.00
7) Phenol-d6	6.951	99	3124058	125.285	ng	0.00
23) Nitrobenzene-d5	8.933	82	1813937	79.872	ng	-0.01
42) 2,4,6-Tribromophenol	15.892	330	935918	124.922	ng	-0.01
45) 2-Fluorobiphenyl	13.039	172	3959669	81.387	ng	-0.01
79) Terphenyl-d14	19.774	244	4894065	81.782	ng	-0.01
Target Compounds						Qvalue

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM060625\
Data File : BM050224.D
Acq On : 06 Jun 2025 22:03
Operator : RC/JU
Sample : PB168314BL
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
PB168314BL

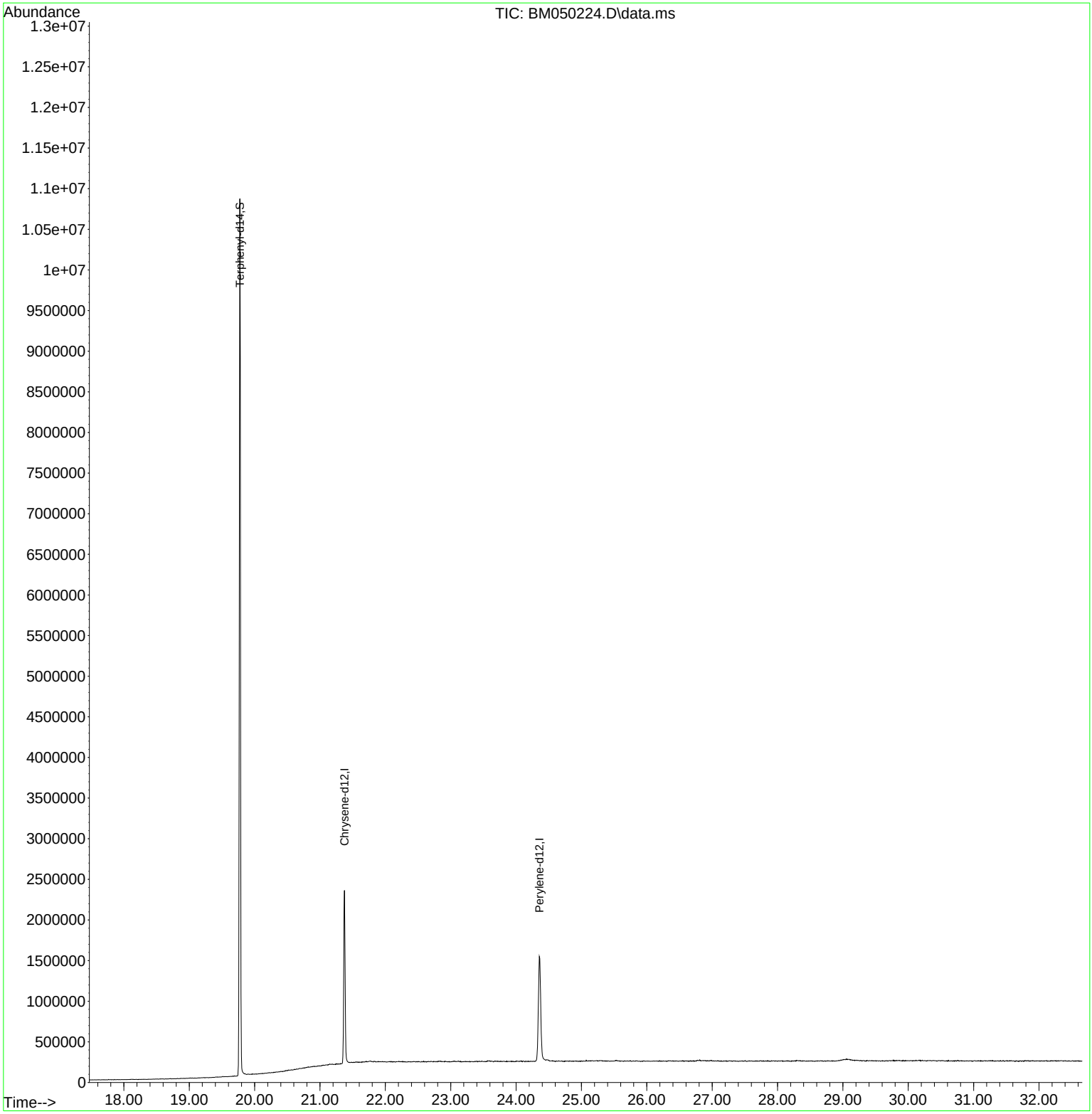
Quant Time: Jun 07 01:21:07 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM060525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jun 05 16:20:25 2025
Response via : Initial Calibration

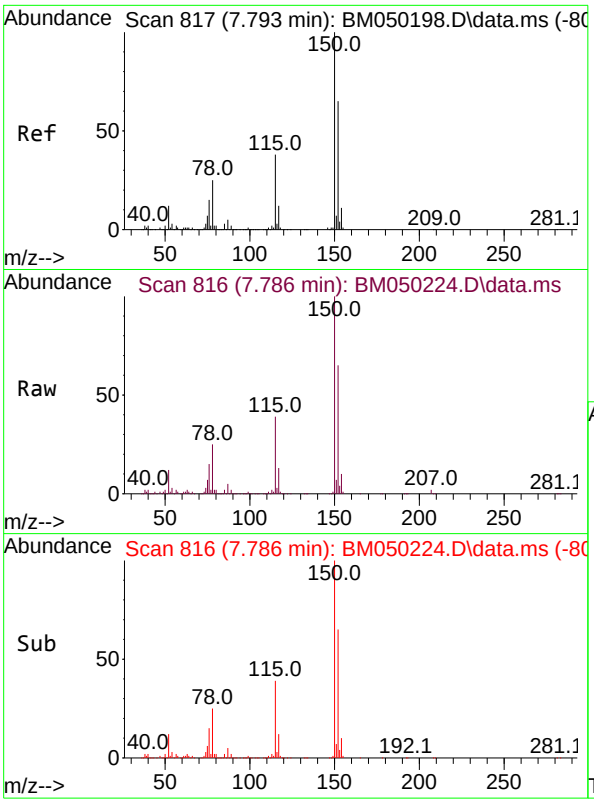


Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM060625\
Data File : BM050224.D
Acq On : 06 Jun 2025 22:03
Operator : RC/JU
Sample : PB168314BL
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
PB168314BL

Quant Time: Jun 07 01:21:07 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM060525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jun 05 16:20:25 2025
Response via : Initial Calibration



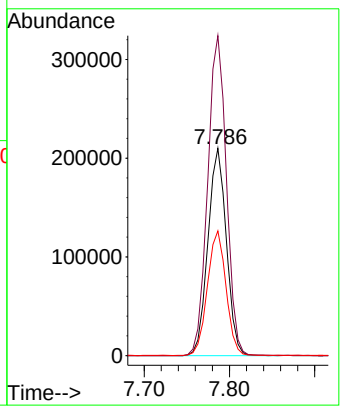


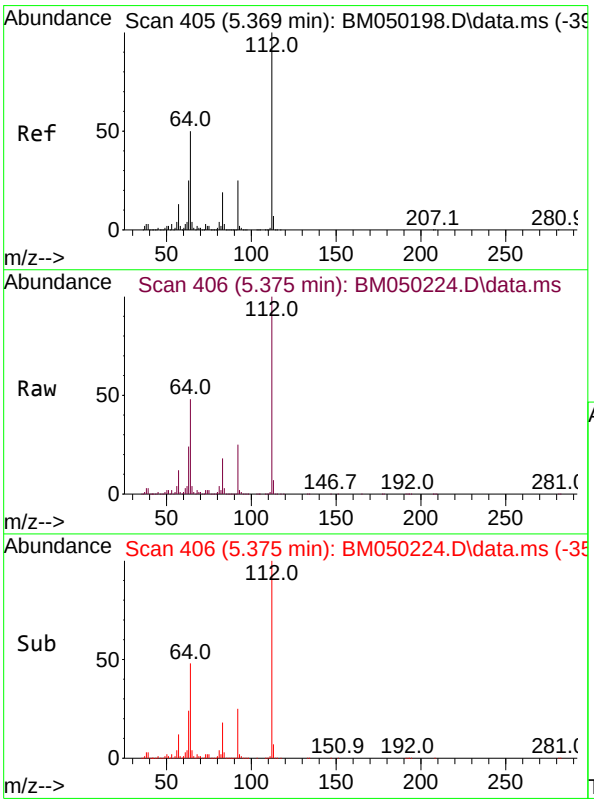
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.786 min Scan# 81
Delta R.T. -0.007 min
Lab File: BM050224.D
Acq: 06 Jun 2025 22:03

Instrument :
BNA_M
ClientSampleId :
PB168314BL

Tgt Ion:152 Resp: 315983

Ion	Ratio	Lower	Upper
152	100		
150	154.4	122.2	183.4
115	60.2	46.3	69.5

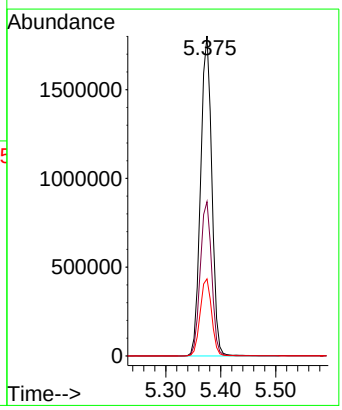


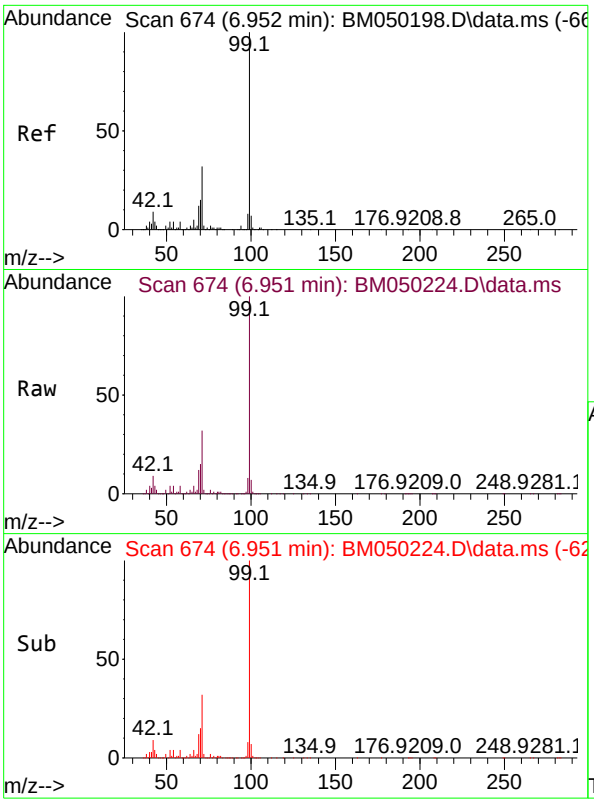


#5
2-Fluorophenol
Concen: 134.675 ng
RT: 5.375 min Scan# 406
Delta R.T. -0.000 min
Lab File: BM050224.D
Acq: 06 Jun 2025 22:03

Tgt Ion:112 Resp: 2551038

Ion	Ratio	Lower	Upper
112	100		
64	48.2	39.8	59.6
63	24.1	19.8	29.8



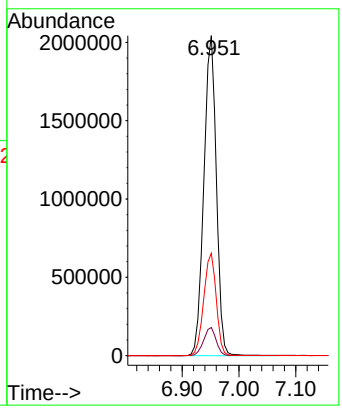


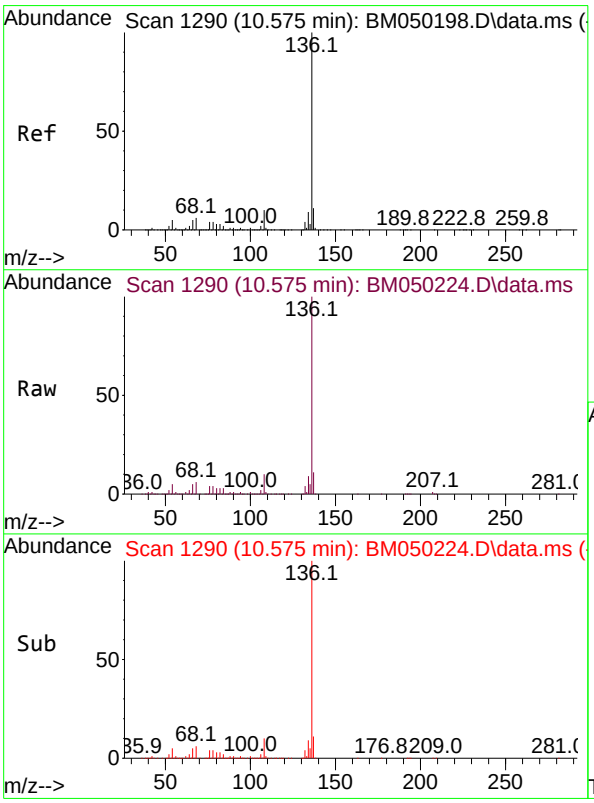
#7
Phenol-d6
Concen: 125.285 ng
RT: 6.951 min Scan# 6
Delta R.T. -0.006 min
Lab File: BM050224.D
Acq: 06 Jun 2025 22:03

Instrument :
BNA_M
ClientSampleId :
PB168314BL

Tgt Ion: 99 Resp: 3124058

Ion	Ratio	Lower	Upper
99	100		
42	8.8	6.9	10.3
71	32.0	25.3	37.9

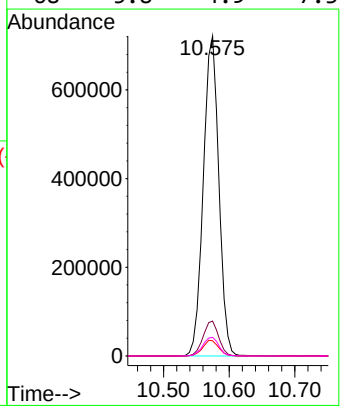


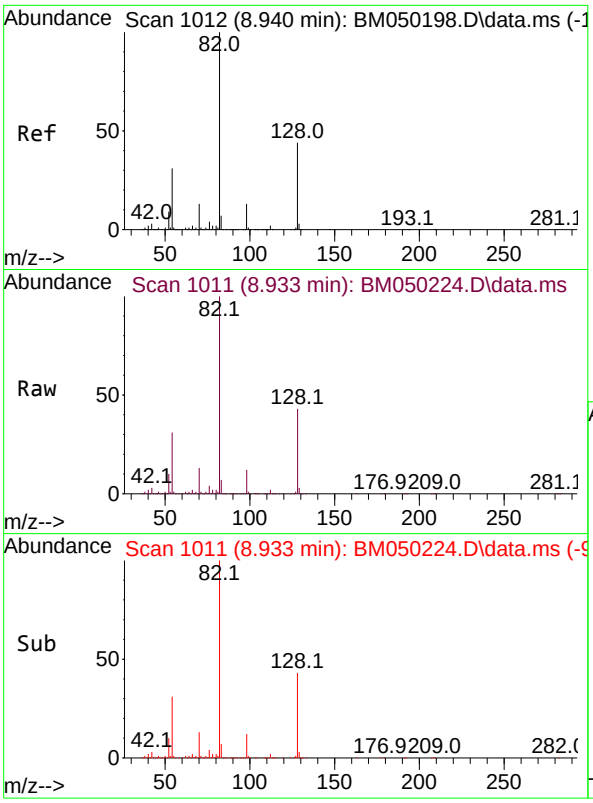


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.575 min Scan# 1290
Delta R.T. -0.006 min
Lab File: BM050224.D
Acq: 06 Jun 2025 22:03

Tgt Ion:136 Resp: 1181137

Ion	Ratio	Lower	Upper
136	100		
137	10.9	8.6	13.0
54	4.7	3.8	5.8
68	5.8	4.9	7.3



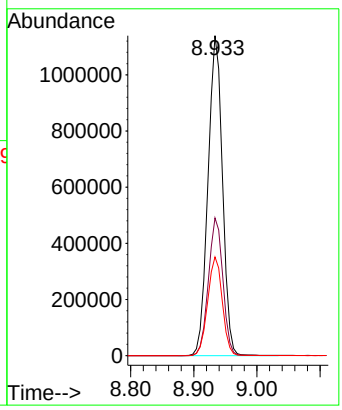


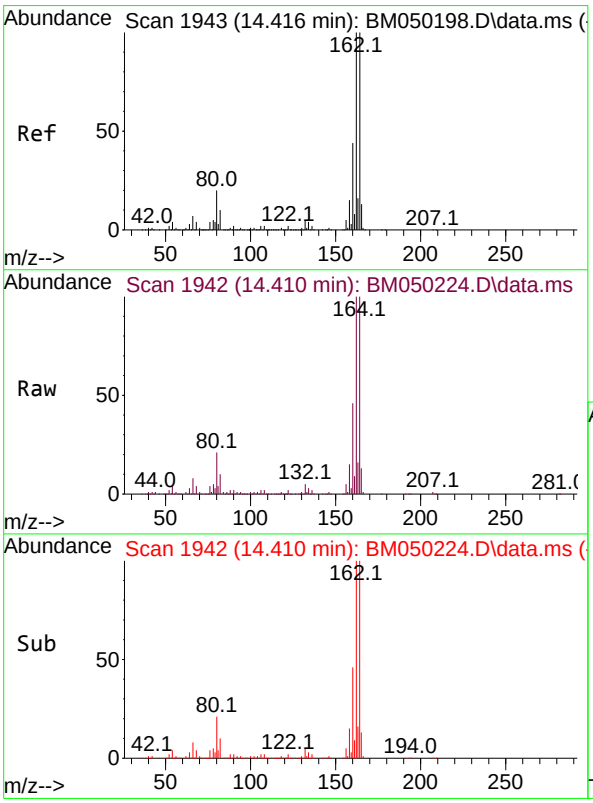
#23
Nitrobenzene-d5
Concen: 79.872 ng
RT: 8.933 min Scan# 10
Delta R.T. -0.012 min
Lab File: BM050224.D
Acq: 06 Jun 2025 22:03

Instrument :
BNA_M
ClientSampleId :
PB168314BL

Tgt Ion: 82 Resp: 1813937

Ion	Ratio	Lower	Upper
82	100		
128	43.0	35.2	52.8
54	30.8	24.5	36.7

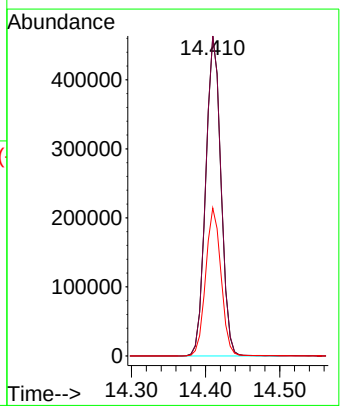


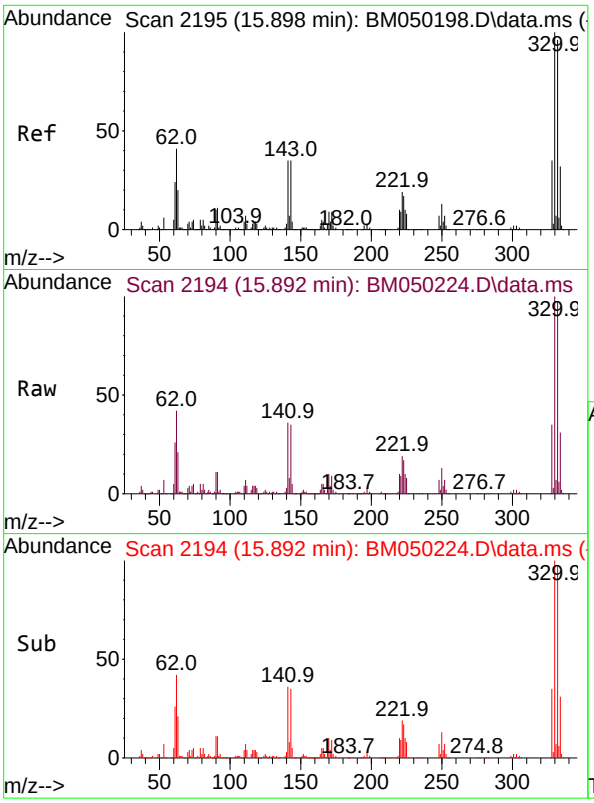


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.410 min Scan# 1942
Delta R.T. -0.006 min
Lab File: BM050224.D
Acq: 06 Jun 2025 22:03

Tgt Ion:164 Resp: 658679

Ion	Ratio	Lower	Upper
164	100		
162	100.1	80.2	120.4
160	46.3	35.7	53.5



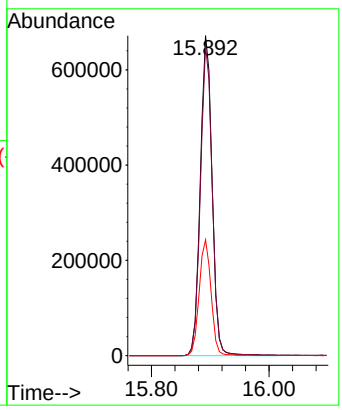


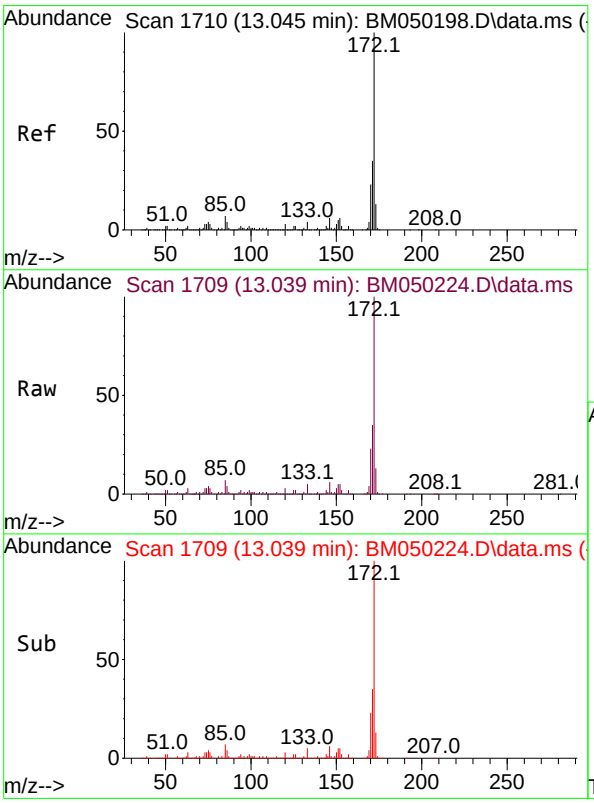
#42
2,4,6-Tribromophenol
Concen: 124.922 ng
RT: 15.892 min Scan# 21
Delta R.T. -0.012 min
Lab File: BM050224.D
Acq: 06 Jun 2025 22:03

Instrument :
BNA_M
ClientSampleId :
PB168314BL

Tgt Ion:330 Resp: 935918

Ion	Ratio	Lower	Upper
330	100		
332	96.8	77.5	116.3
141	36.4	28.8	43.2

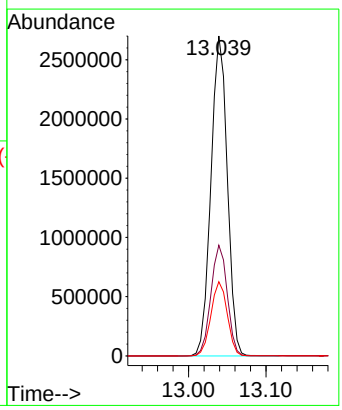


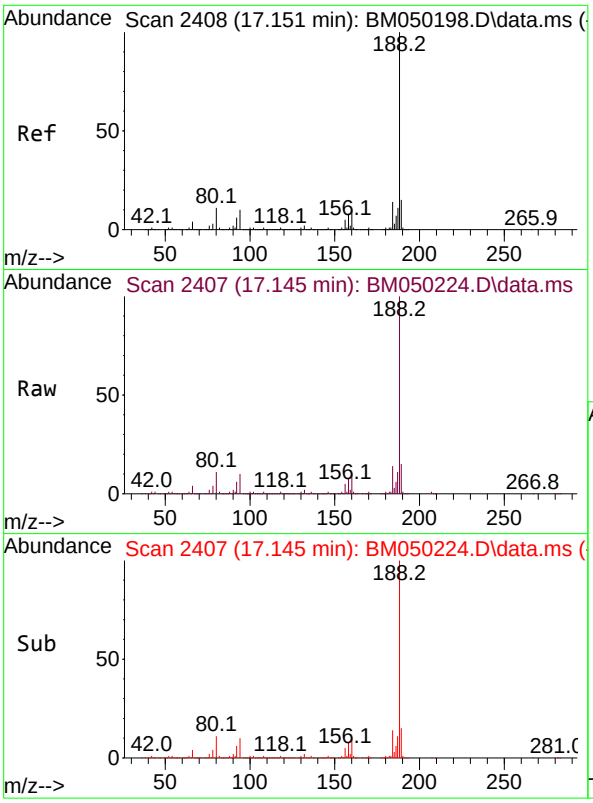


#45
2-Fluorobiphenyl
Concen: 81.387 ng
RT: 13.039 min Scan# 1709
Delta R.T. -0.012 min
Lab File: BM050224.D
Acq: 06 Jun 2025 22:03

Tgt Ion:172 Resp: 3959669

Ion	Ratio	Lower	Upper
172	100		
171	34.6	27.8	41.6
170	23.2	18.6	27.8



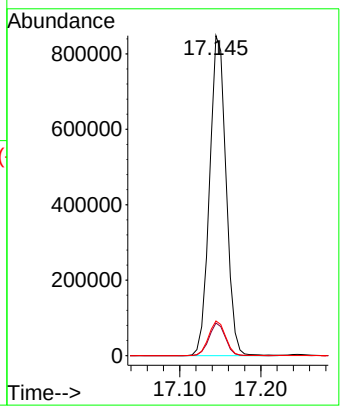


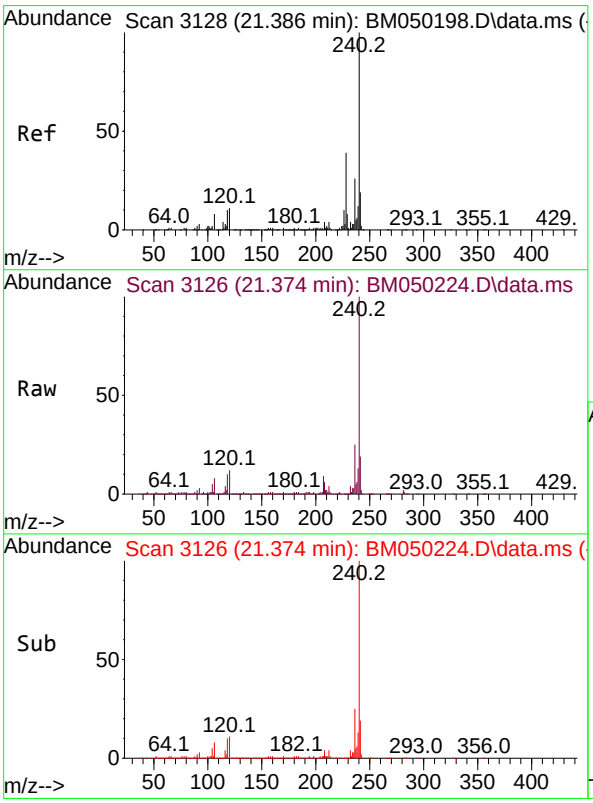
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.145 min Scan# 24
Delta R.T. -0.012 min
Lab File: BM050224.D
Acq: 06 Jun 2025 22:03

Instrument :
BNA_M
ClientSampleId :
PB168314BL

Tgt Ion:188 Resp: 1198309

Ion	Ratio	Lower	Upper
188	100		
94	10.2	8.1	12.1
80	10.8	8.6	13.0

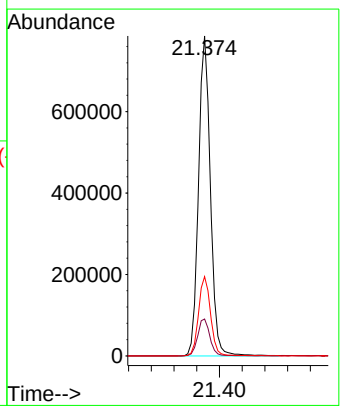


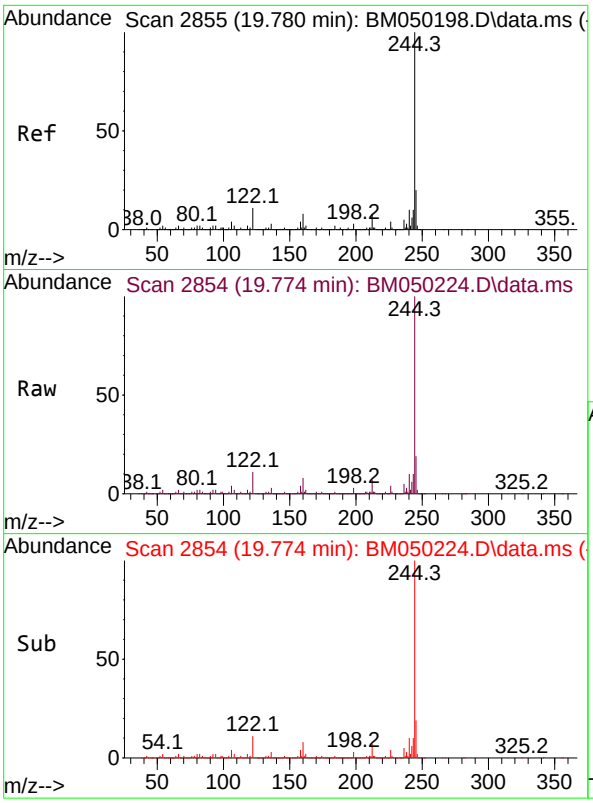


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.374 min Scan# 3126
Delta R.T. -0.012 min
Lab File: BM050224.D
Acq: 06 Jun 2025 22:03

Tgt Ion:240 Resp: 1134031

Ion	Ratio	Lower	Upper
240	100		
120	11.5	9.0	13.4
236	24.8	20.7	31.1



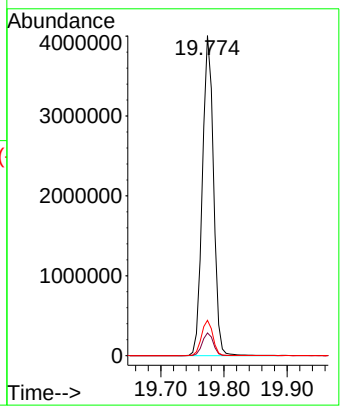


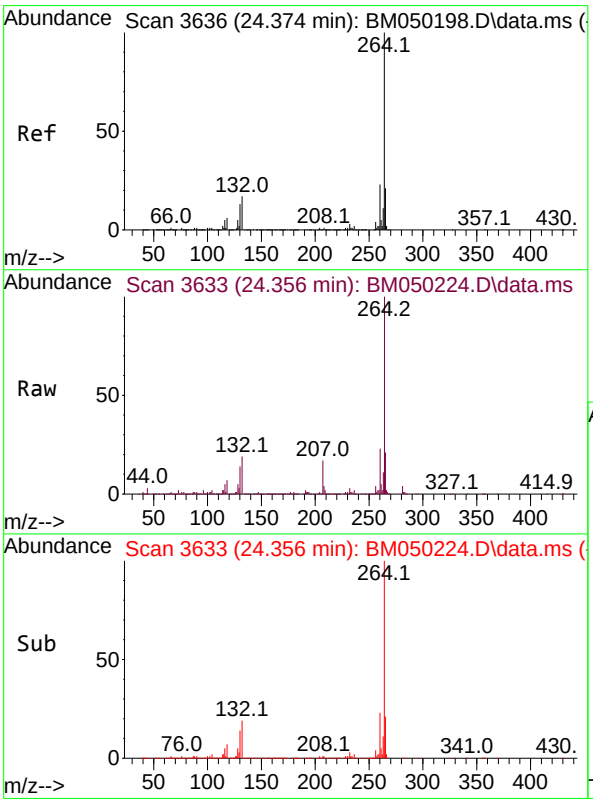
#79
Terphenyl-d14
Concen: 81.782 ng
RT: 19.774 min Scan# 2
Delta R.T. -0.012 min
Lab File: BM050224.D
Acq: 06 Jun 2025 22:03

Instrument :
BNA_M
ClientSampleId :
PB168314BL

Tgt Ion:244 Resp: 4894065

Ion	Ratio	Lower	Upper
244	100		
212	7.1	6.0	9.0
122	11.0	8.6	12.8

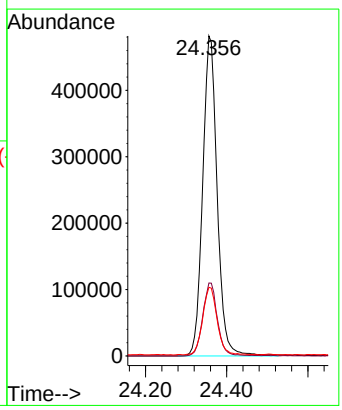




#86
Perylene-d12
Concen: 20.000 ng
RT: 24.356 min Scan# 3633
Delta R.T. -0.018 min
Lab File: BM050224.D
Acq: 06 Jun 2025 22:03

Tgt Ion:264 Resp: 1193795

Ion	Ratio	Lower	Upper
264	100		
260	22.8	18.6	28.0
265	21.4	16.8	25.2



Quantitation Report (QT Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM060625\
Data File : BM050225.D
Acq On : 06 Jun 2025 22:42
Operator : RC/JU
Sample : PB168314BS
Misc :
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jun 07 01:21:20 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM060525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jun 05 16:20:25 2025
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
PB168314BS

Manual Integrations APPROVED
Reviewed By :Rahul Chavli 06/09/2025
Supervised By :Jagrut Upadhyay 06/09/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.787	152	327404	20.000	ng		0.00
21) Naphthalene-d8	10.575	136	1240221	20.000	ng		0.00
39) Acenaphthene-d10	14.410	164	678136	20.000	ng		0.00
64) Phenanthrene-d10	17.151	188	1205402	20.000	ng		0.00
76) Chrysene-d12	21.374	240	1198193	20.000	ng		-0.01
86) Perylene-d12	24.362	264	1311493	20.000	ng		-0.01
System Monitoring Compounds							
5) 2-Fluorophenol	5.375	112	2475848	126.146	ng		0.00
7) Phenol-d6	6.951	99	3059528	118.417	ng		0.00
23) Nitrobenzene-d5	8.934	82	1831642	76.809	ng		-0.01
42) 2,4,6-Tribromophenol	15.898	330	961933	124.711	ng		0.00
45) 2-Fluorobiphenyl	13.039	172	3805803	75.980	ng		-0.01
79) Terphenyl-d14	19.774	244	4868069	76.992	ng		-0.01
Target Compounds							Qvalue
2) 1,4-Dioxane	3.293	88	299681	34.834	ng		95
3) Pyridine	3.681	79	835916	37.520	ng		98
4) n-Nitrosodimethylamine	3.593	42	190079	41.258	ng		98
6) Aniline	7.110	93	1193533	34.944	ng		98
8) 2-Chlorophenol	7.351	128	920208	42.625	ng		99
9) Benzaldehyde	6.922	77	500620	30.476	ng		99
10) Phenol	6.975	94	1151275	42.114	ng		99
11) bis(2-Chloroethyl)ether	7.210	93	915062	41.616	ng		98
12) 1,3-Dichlorobenzene	7.675	146	977875	40.517	ng		97
13) 1,4-Dichlorobenzene	7.822	146	1017326	40.513	ng		99
14) 1,2-Dichlorobenzene	8.140	146	968641	40.464	ng		98
15) Benzyl Alcohol	8.022	79	741456	40.236	ng		99
16) 2,2'-oxybis(1-Chloropr...	8.316	45	674983	44.190	ng		97
17) 2-Methylphenol	8.222	107	738406	40.937	ng		99
18) Hexachloroethane	8.869	117	382614	42.074	ng		99
19) n-Nitroso-di-n-propyla...	8.592	70	637909	40.346	ng		98
20) 3+4-Methylphenols	8.545	107	977373	40.501	ng		98
22) Acetophenone	8.604	105	1319211	42.577	ng	#	99
24) Nitrobenzene	8.975	77	959826	44.256	ng		97
25) Isophorone	9.504	82	1712062	41.596	ng		99
26) 2-Nitrophenol	9.686	139	399258	42.647	ng		99
27) 2,4-Dimethylphenol	9.751	122	817879	42.519	ng		98
28) bis(2-Chloroethoxy)met...	9.986	93	1138491	42.341	ng		99
29) 2,4-Dichlorophenol	10.222	162	760875	42.744	ng		99
30) 1,2,4-Trichlorobenzene	10.439	180	843780	42.597	ng		99
31) Naphthalene	10.622	128	2661898	41.513	ng		99
32) Benzoic acid	9.869	122	472275	39.068	ng		95
33) 4-Chloroaniline	10.722	127	782333	28.617	ng		99
34) Hexachlorobutadiene	10.922	225	495096	42.020	ng		100
35) Caprolactam	11.492	113	221832	39.308	ng		94
36) 4-Chloro-3-methylphenol	11.851	107	786874	41.427	ng		98
37) 2-Methylnaphthalene	12.233	142	1597034	41.285	ng		99
38) 1-Methylnaphthalene	12.457	142	1671891	40.721	ng		100
40) 1,2,4,5-Tetrachloroben...	12.604	216	865976	44.223	ng		99
41) Hexachlorocyclopentadiene	12.592	237	1114762	93.740	ng		98
43) 2,4,6-Trichlorophenol	12.839	196	575768	44.712	ng		98

Quantitation Report (QT Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM060625\
Data File : BM050225.D
Acq On : 06 Jun 2025 22:42
Operator : RC/JU
Sample : PB168314BS
Misc :
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jun 07 01:21:20 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM060525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jun 05 16:20:25 2025
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
PB168314BS

Manual Integrations APPROVED
Reviewed By :Rahul Chavli 06/09/2025
Supervised By :Jagrut Upadhyay 06/09/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	12.910	196	622993	44.063	ng	98
46) 1,1'-Biphenyl	13.251	154	2199497	43.316	ng	99
47) 2-Chloronaphthalene	13.286	162	1692510	42.874	ng	100
48) 2-Nitroaniline	13.480	65	407164	46.868	ng	92
49) Acenaphthylene	14.133	152	2740890	42.926	ng	100
50) Dimethylphthalate	13.874	163	1938850	42.276	ng	100
51) 2,6-Dinitrotoluene	13.980	165	408086	44.123	ng	94
52) Acenaphthene	14.474	154	1839565	46.061	ng	98
53) 3-Nitroaniline	14.304	138	310614	30.134	ng	99
54) 2,4-Dinitrophenol	14.510	184	421817	77.017	ng	96
55) Dibenzofuran	14.810	168	2482632	42.490	ng	99
56) 4-Nitrophenol	14.610	139	826813	94.241	ng	99
57) 2,4-Dinitrotoluene	14.769	165	570102	46.728	ng	99
58) Fluorene	15.457	166	1914923	42.790	ng	99
59) 2,3,4,6-Tetrachlorophenol	15.033	232	535125m	43.746	ng	
60) Diethylphthalate	15.245	149	1934726	42.517	ng	99
61) 4-Chlorophenyl-phenyle...	15.457	204	913406	42.232	ng	99
62) 4-Nitroaniline	15.468	138	408318	42.264	ng	100
63) Azobenzene	15.751	77	1977224	43.472	ng	98
65) 4,6-Dinitro-2-methylph...	15.527	198	279122	42.396	ng	95
66) n-Nitrosodiphenylamine	15.668	169	1664999	43.961	ng	99
67) 4-Bromophenyl-phenylether	16.351	248	566244	44.051	ng	97
68) Hexachlorobenzene	16.463	284	660689	43.992	ng	97
69) Atrazine	16.621	200	555211	46.007	ng	99
70) Pentachlorophenol	16.798	266	908910	93.086	ng	99
71) Phenanthrene	17.192	178	2989719	43.417	ng	99
72) Anthracene	17.280	178	3025223	43.915	ng	100
73) Carbazole	17.545	167	2822868	44.980	ng	100
74) Di-n-butylphthalate	18.127	149	3128027	45.808	ng	99
75) Fluoranthene	19.204	202	3288288	45.282	ng	99
77) Benzidine	19.386	184	1473496	43.732	ng	100
78) Pyrene	19.562	202	3487366	43.183	ng	100
80) Butylbenzylphthalate	20.474	149	1208443	44.860	ng	99
81) Benzo(a)anthracene	21.356	228	3385167	44.635	ng	100
82) 3,3'-Dichlorobenzidine	21.280	252	704129	30.445	ng	98
83) Chrysene	21.421	228	3258491	45.168	ng	99
84) Bis(2-ethylhexyl)phtha...	21.309	149	1926357	46.425	ng	99
85) Di-n-octyl phthalate	22.444	149	2938941	47.731	ng	100
87) Indeno(1,2,3-cd)pyrene	27.732	276	4233970	50.139	ng	100
88) Benzo(b)fluoranthene	23.421	252	3454981	45.311	ng	99
89) Benzo(k)fluoranthene	23.486	252	3445030	44.257	ng	100
90) Benzo(a)pyrene	24.221	252	3306511	46.121	ng	99
91) Dibenzo(a,h)anthracene	27.797	278	3382105	49.342	ng	98
92) Benzo(g,h,i)perylene	28.779	276	3516916	51.264	ng	99

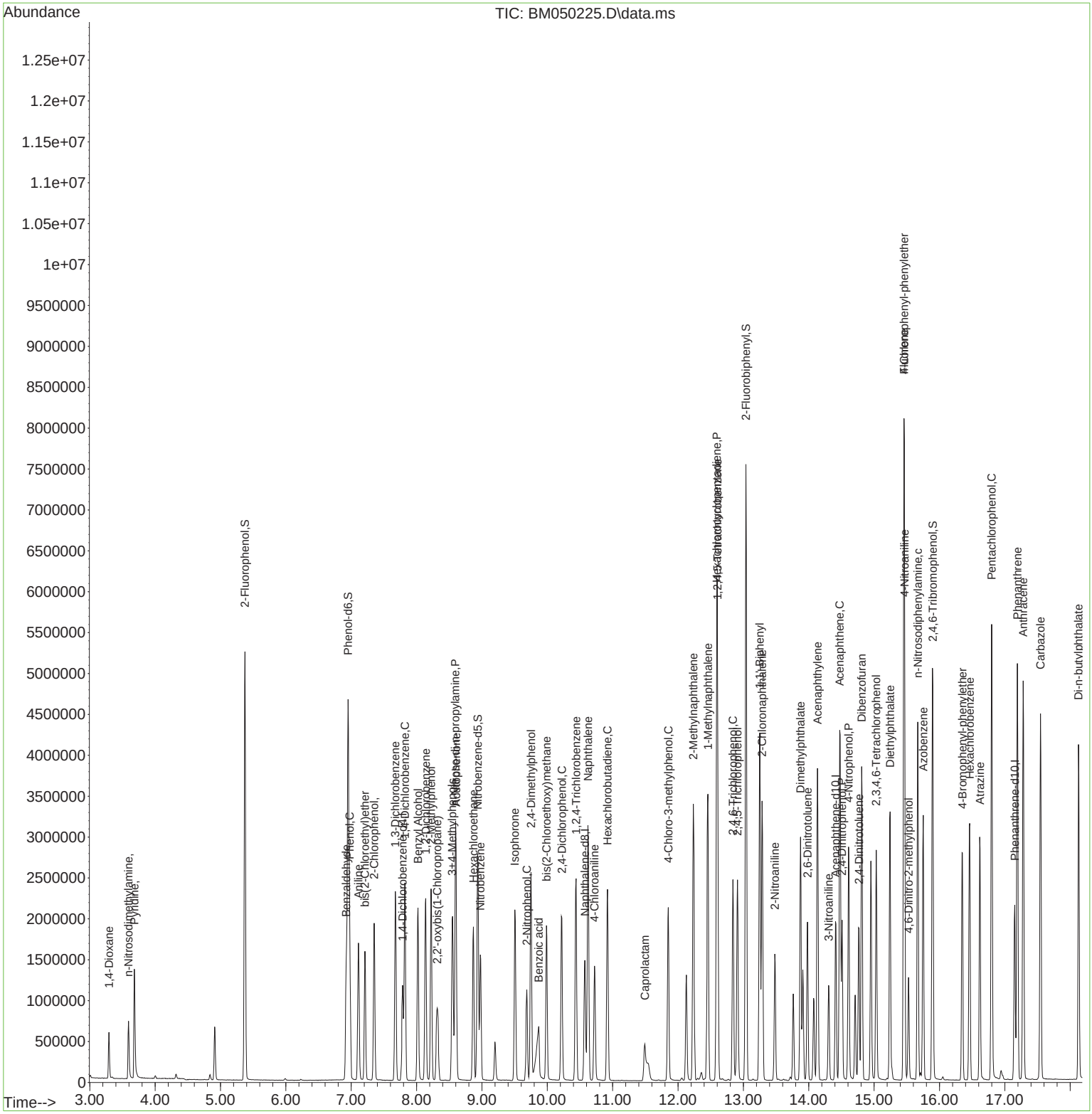
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM060625\
Data File : BM050225.D
Acq On : 06 Jun 2025 22:42
Operator : RC/JU
Sample : PB168314BS
Misc :
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jun 07 01:21:20 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM060525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jun 05 16:20:25 2025
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
PB168314BS

Manual Integrations APPROVED
Reviewed By :Rahul Chavli 06/09/2025
Supervised By :Jagrut Upadhyay 06/09/2025

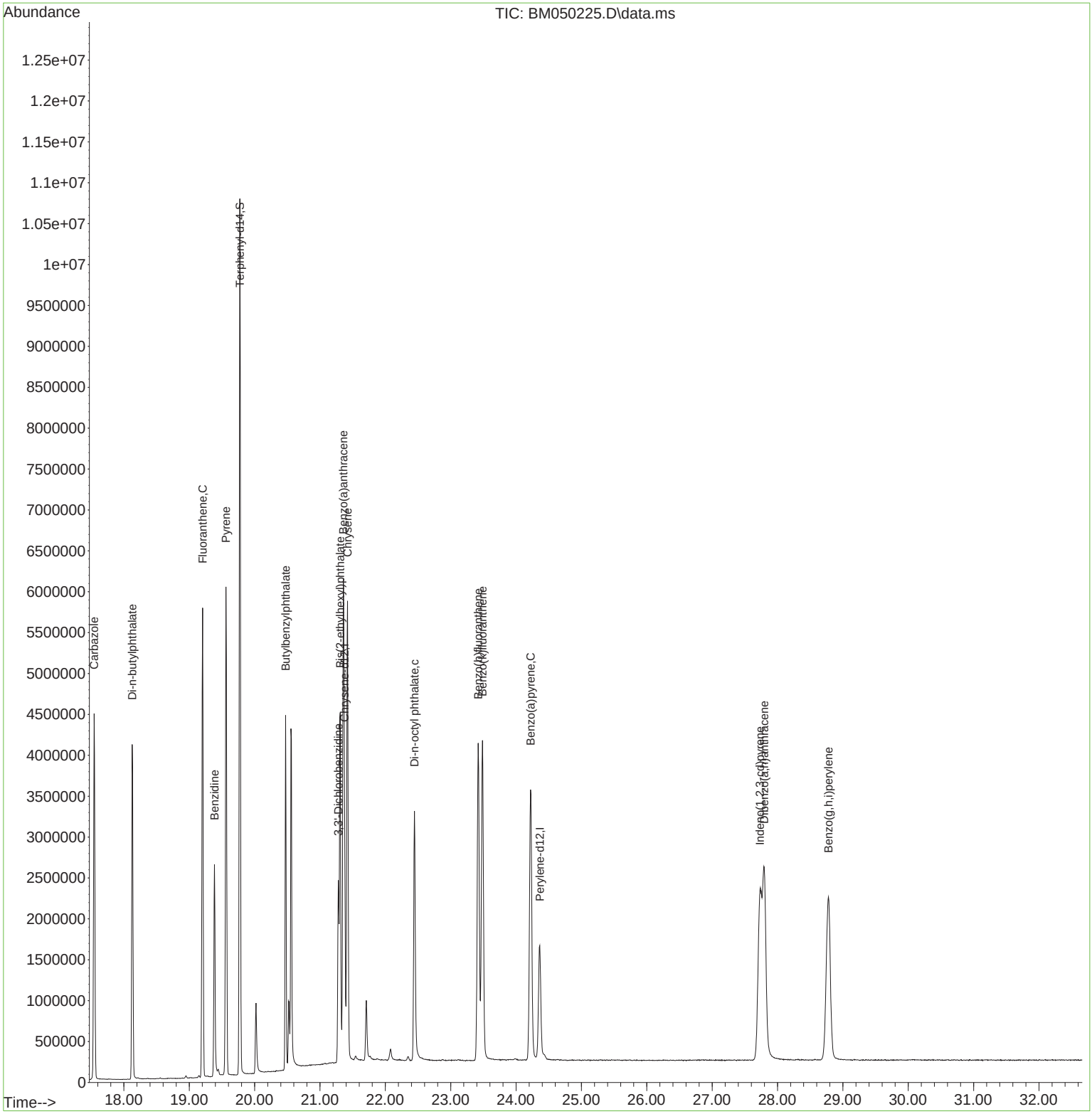


Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM060625\
Data File : BM050225.D
Acq On : 06 Jun 2025 22:42
Operator : RC/JU
Sample : PB168314BS
Misc :
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jun 07 01:21:20 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM060525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jun 05 16:20:25 2025
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
PB168314BS

Manual Integrations APPROVED
Reviewed By :Rahul Chavli 06/09/2025
Supervised By :Jagrut Upadhyay 06/09/2025



Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM060625\
Data File : BM050213.D
Acq On : 06 Jun 2025 14:06
Operator : RC/JU
Sample : Q2194-02MS
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
COMP-12MS

Quant Time: Jun 06 14:37:50 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM060525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jun 05 16:20:25 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.787	152	348615	20.000	ng	0.00
21) Naphthalene-d8	10.575	136	1377434	20.000	ng	0.00
39) Acenaphthene-d10	14.416	164	768114	20.000	ng	0.00
64) Phenanthrene-d10	17.151	188	1293379	20.000	ng	0.00
76) Chrysene-d12	21.380	240	1106417	20.000	ng	0.00
86) Perylene-d12	24.368	264	1212630	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.375	112	2485049	118.911	ng	0.00
7) Phenol-d6	6.957	99	2994886	108.862	ng	0.00
23) Nitrobenzene-d5	8.939	82	2093769	79.055	ng	0.00
42) 2,4,6-Tribromophenol	15.898	330	1069797	122.448	ng	0.00
45) 2-Fluorobiphenyl	13.045	172	4313578	76.030	ng	0.00
79) Terphenyl-d14	19.780	244	4512257	77.284	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.304	88	309499	33.786	ng	# 78
3) Pyridine	3.693	79	837934	35.322	ng	100
4) n-Nitrosodimethylamine	3.599	42	200375	40.847	ng	95
6) Aniline	7.116	93	795951	21.886	ng	98
8) 2-Chlorophenol	7.351	128	994911	43.281	ng	99
9) Benzaldehyde	6.928	77	409612	23.418	ng	99
10) Phenol	6.981	94	1102221	37.866	ng	99
11) bis(2-Chloroethyl)ether	7.216	93	980654	41.885	ng	99
12) 1,3-Dichlorobenzene	7.681	146	775911	30.193	ng	99
13) 1,4-Dichlorobenzene	7.822	146	818226	30.602	ng	99
14) 1,2-Dichlorobenzene	8.139	146	807074	31.663	ng	99
15) Benzyl Alcohol	8.022	79	858483	43.752	ng	98
16) 2,2'-oxybis(1-Chloropr...	8.316	45	657839	40.447	ng	98
17) 2-Methylphenol	8.228	107	812312	42.295	ng	100
18) Hexachloroethane	8.869	117	288971	29.843	ng	99
19) n-Nitroso-di-n-propyla...	8.592	70	713472	42.380	ng	99
20) 3+4-Methylphenols	8.551	107	1079323	42.004	ng	99
22) Acetophenone	8.604	105	1456030	42.311	ng	99
24) Nitrobenzene	8.981	77	1045437	43.402	ng	98
25) Isophorone	9.510	82	2007832	43.923	ng	100
26) 2-Nitrophenol	9.686	139	475401	45.722	ng	98
27) 2,4-Dimethylphenol	9.751	122	934333	43.734	ng	98
28) bis(2-Chloroethoxy)met...	9.992	93	1306450	43.748	ng	99
29) 2,4-Dichlorophenol	10.222	162	887017	44.867	ng	99
30) 1,2,4-Trichlorobenzene	10.439	180	830875	37.767	ng	99
31) Naphthalene	10.628	128	2714278	38.113	ng	100
32) Benzoic acid	9.845	122	281160	20.941	ng	98
33) 4-Chloroaniline	10.728	127	208080	6.853	ng	99
34) Hexachlorobutadiene	10.922	225	451045	34.468	ng	99
35) Caprolactam	11.498	113	211120	33.684	ng	97
36) 4-Chloro-3-methylphenol	11.851	107	909622	43.119	ng	100
37) 2-Methylnaphthalene	12.239	142	1787634	41.609	ng	98
38) 1-Methylnaphthalene	12.457	142	1857710	40.739	ng	99
40) 1,2,4,5-Tetrachloroben...	12.610	216	968442	43.663	ng	99
41) Hexachlorocyclopentadiene	12.598	237	1125098	83.526	ng	98
43) 2,4,6-Trichlorophenol	12.845	196	676045	46.349	ng	99

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM060625\
Data File : BM050213.D
Acq On : 06 Jun 2025 14:06
Operator : RC/JU
Sample : Q2194-02MS
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
COMP-12MS

Quant Time: Jun 06 14:37:50 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM060525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jun 05 16:20:25 2025
Response via : Initial Calibration

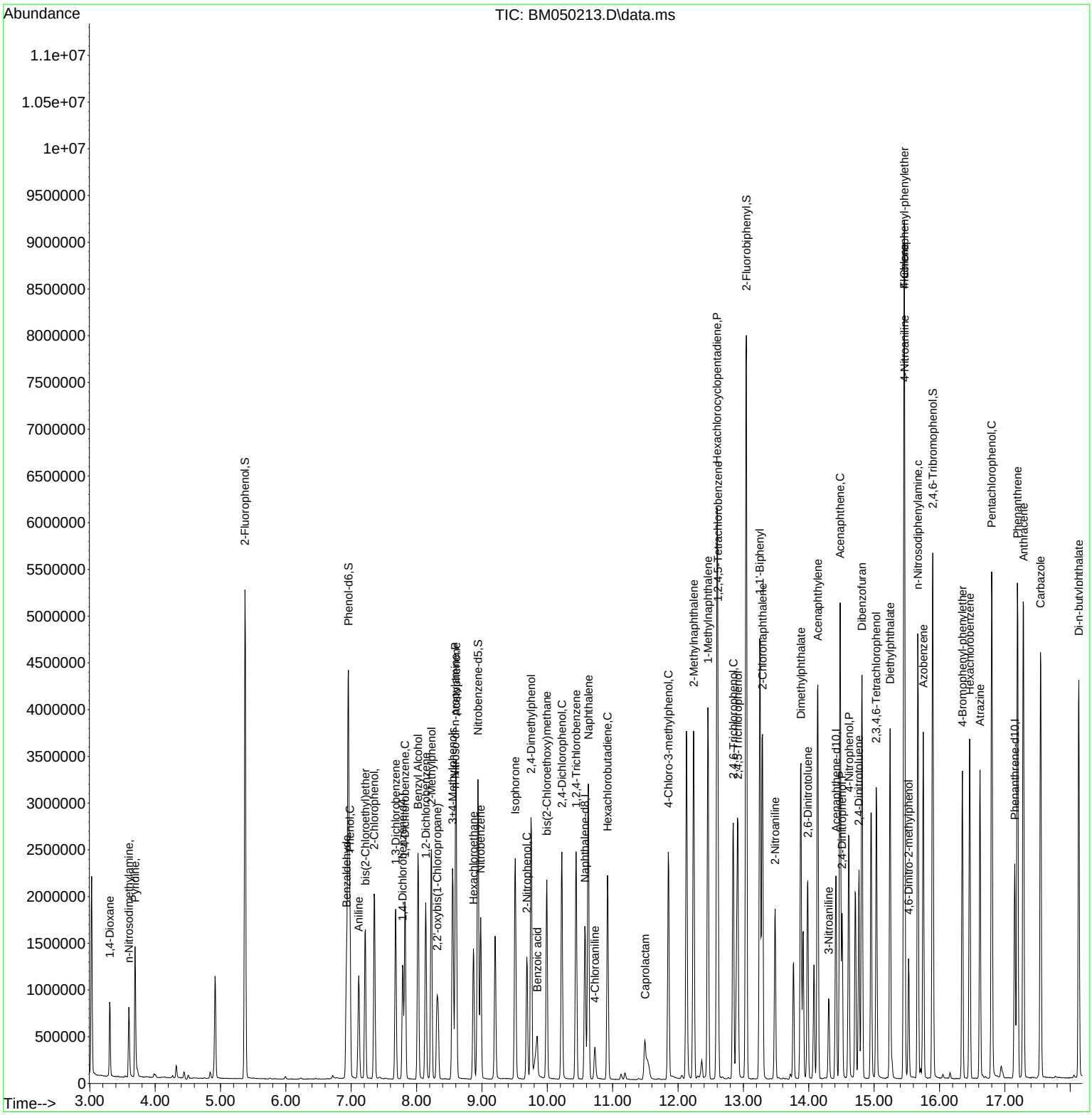
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	12.916	196	729356	45.543	ng		98
46) 1,1'-Biphenyl	13.251	154	2530450	43.996	ng		98
47) 2-Chloronaphthalene	13.292	162	1935364	43.283	ng		100
48) 2-Nitroaniline	13.486	65	477197	48.495	ng		97
49) Acenaphthylene	14.139	152	3153424	43.602	ng		100
50) Dimethylphthalate	13.880	163	2278169	43.855	ng		100
51) 2,6-Dinitrotoluene	13.986	165	488399	46.620	ng		98
52) Acenaphthene	14.480	154	2043709	45.178	ng		99
53) 3-Nitroaniline	14.304	138	232659	19.927	ng		96
54) 2,4-Dinitrophenol	14.510	184	379194	59.986	ng		98
55) Dibenzofuran	14.816	168	2842304	42.948	ng		99
56) 4-Nitrophenol	14.616	139	779304	78.421	ng		97
57) 2,4-Dinitrotoluene	14.768	165	648380	46.918	ng		99
58) Fluorene	15.463	166	2148065	42.377	ng		99
59) 2,3,4,6-Tetrachlorophenol	15.033	232	599098	43.239	ng		92
60) Diethylphthalate	15.245	149	2186884	42.429	ng		99
61) 4-Chlorophenyl-phenyle...	15.463	204	1049834	42.854	ng		97
62) 4-Nitroaniline	15.468	138	426152	38.942	ng		98
63) Azobenzene	15.751	77	2199804	42.700	ng		99
65) 4,6-Dinitro-2-methylph...	15.527	198	287886	40.753	ng		97
66) n-Nitrosodiphenylamine	15.668	169	1858818	45.740	ng		99
67) 4-Bromophenyl-phenylether	16.351	248	651215	47.215	ng		98
68) Hexachlorobenzene	16.462	284	746011	46.295	ng		99
69) Atrazine	16.621	200	607699	46.931	ng		100
70) Pentachlorophenol	16.798	266	960880	91.715	ng		99
71) Phenanthrene	17.192	178	3258540	44.102	ng		99
72) Anthracene	17.286	178	3285651	44.451	ng		99
73) Carbazole	17.545	167	2919116	43.350	ng		99
74) Di-n-butylphthalate	18.133	149	3333066	45.491	ng		100
75) Fluoranthene	19.203	202	3339548	42.860	ng		99
77) Benzidine	19.386	184	595875	19.152	ng		98
78) Pyrene	19.568	202	3471185	46.548	ng		99
80) Butylbenzylphthalate	20.480	149	1237003	49.729	ng		99
81) Benzo(a)anthracene	21.362	228	3166143	45.210	ng		100
82) 3,3'-Dichlorobenzidine	21.286	252	469675	21.992	ng		99
83) Chrysene	21.427	228	3012726	45.226	ng		98
84) Bis(2-ethylhexyl)phtha...	21.315	149	1858055	48.493	ng		99
85) Di-n-octyl phthalate	22.456	149	2955416	51.980	ng		100
87) Indeno(1,2,3-cd)pyrene	27.738	276	3987489	51.070	ng	#	92
88) Benzo(b)fluoranthene	23.433	252	3197636	45.355	ng		99
89) Benzo(k)fluoranthene	23.491	252	3221599	44.761	ng		100
90) Benzo(a)pyrene	24.233	252	3082761	46.506	ng		100
91) Dibenzo(a,h)anthracene	27.809	278	3199032	50.476	ng		99
92) Benzo(g,h,i)perylene	28.791	276	3296635	51.971	ng		100

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM060625\
Data File : BM050213.D
Acq On : 06 Jun 2025 14:06
Operator : RC/JU
Sample : Q2194-02MS
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
COMP-12MS

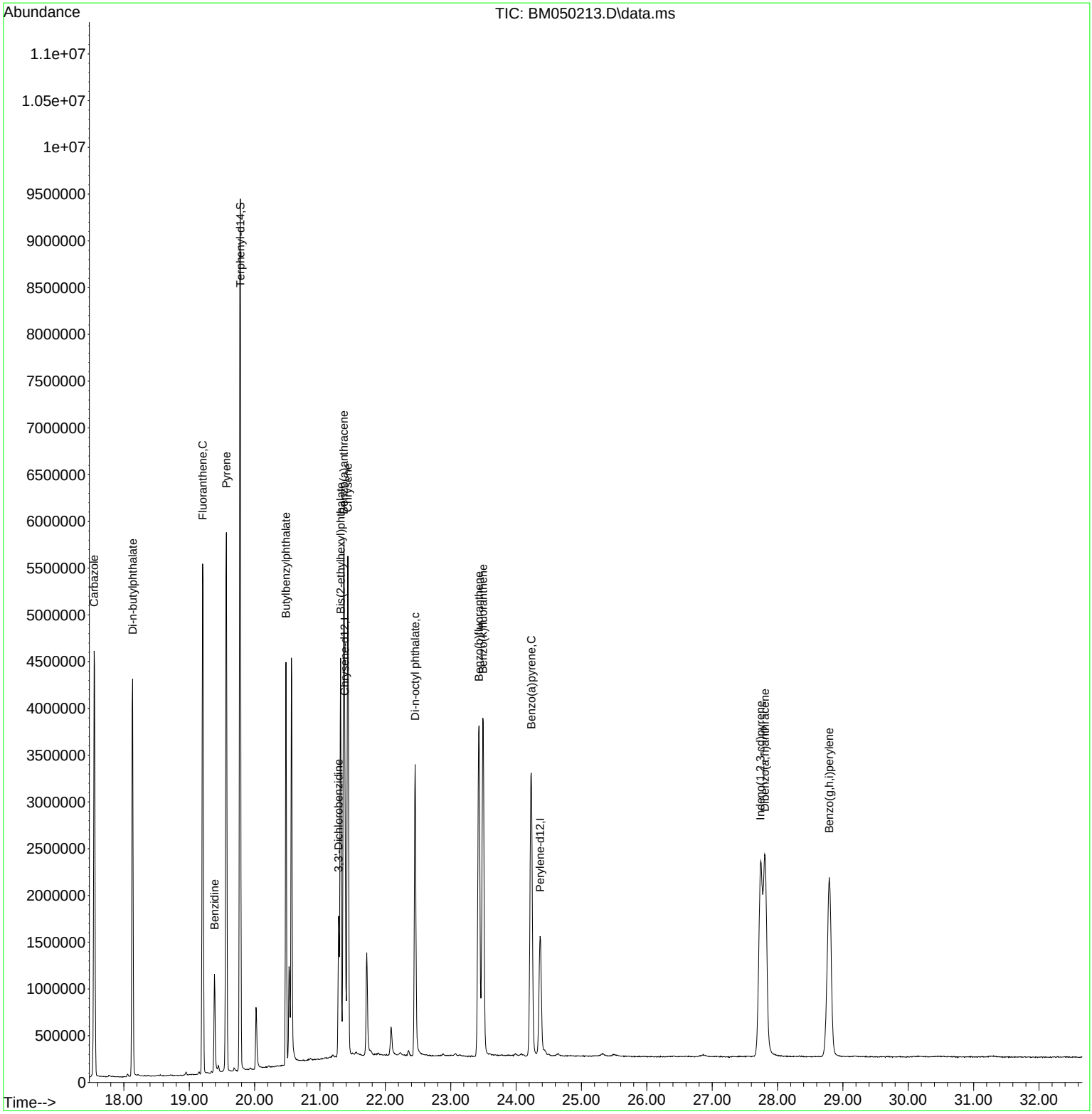
Quant Time: Jun 06 14:37:50 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM060525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jun 05 16:20:25 2025
Response via : Initial Calibration



Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM060625\
Data File : BM050213.D
Acq On : 06 Jun 2025 14:06
Operator : RC/JU
Sample : Q2194-02MS
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
COMP-12MS

Quant Time: Jun 06 14:37:50 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM060525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jun 05 16:20:25 2025
Response via : Initial Calibration



Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM060625\
Data File : BM050214.D
Acq On : 06 Jun 2025 14:46
Operator : RC/JU
Sample : Q2194-02MSD
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
COMP-12MSD

Quant Time: Jun 06 15:29:27 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM060525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jun 05 16:20:25 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.786	152	346679	20.000	ng	0.00
21) Naphthalene-d8	10.575	136	1352850	20.000	ng	0.00
39) Acenaphthene-d10	14.415	164	758249	20.000	ng	0.00
64) Phenanthrene-d10	17.151	188	1299390	20.000	ng	0.00
76) Chrysene-d12	21.380	240	1138990	20.000	ng	0.00
86) Perylene-d12	24.368	264	1259322	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.375	112	2583874	124.330	ng	0.00
7) Phenol-d6	6.957	99	3067628	112.129	ng	0.00
23) Nitrobenzene-d5	8.939	82	2162975	83.152	ng	0.00
42) 2,4,6-Tribromophenol	15.898	330	1122169	130.113	ng	0.00
45) 2-Fluorobiphenyl	13.045	172	4448519	79.428	ng	0.00
79) Terphenyl-d14	19.780	244	4771812	79.392	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.304	88	320685	35.202	ng	# 80
3) Pyridine	3.693	79	867026	36.752	ng	99
4) n-Nitrosodimethylamine	3.599	42	203319	41.678	ng	94
6) Aniline	7.116	93	709317	19.612	ng	99
8) 2-Chlorophenol	7.357	128	1028153	44.977	ng	98
9) Benzaldehyde	6.928	77	405818	23.331	ng	99
10) Phenol	6.981	94	1127607	38.955	ng	99
11) bis(2-Chloroethyl)ether	7.216	93	1006752	43.240	ng	98
12) 1,3-Dichlorobenzene	7.681	146	825524	32.303	ng	99
13) 1,4-Dichlorobenzene	7.822	146	859791	32.336	ng	100
14) 1,2-Dichlorobenzene	8.139	146	844067	33.299	ng	100
15) Benzyl Alcohol	8.022	79	881513	45.176	ng	100
16) 2,2'-oxybis(1-Chloropr...	8.316	45	659390	40.769	ng	98
17) 2-Methylphenol	8.228	107	834273	43.681	ng	100
18) Hexachloroethane	8.869	117	303389	31.507	ng	99
19) n-Nitroso-di-n-propyla...	8.592	70	733685	43.824	ng	99
20) 3+4-Methylphenols	8.551	107	1122208	43.917	ng	99
22) Acetophenone	8.604	105	1496170	44.268	ng	99
24) Nitrobenzene	8.981	77	1072701	45.343	ng	100
25) Isophorone	9.510	82	2052018	45.705	ng	99
26) 2-Nitrophenol	9.686	139	500076	48.969	ng	99
27) 2,4-Dimethylphenol	9.751	122	959785	45.742	ng	99
28) bis(2-Chloroethoxy)met...	9.992	93	1338710	45.643	ng	99
29) 2,4-Dichlorophenol	10.222	162	928425	47.815	ng	98
30) 1,2,4-Trichlorobenzene	10.439	180	870660	40.295	ng	99
31) Naphthalene	10.627	128	2817903	40.287	ng	99
32) Benzoic acid	9.851	122	306831	23.269	ng	99
33) 4-Chloroaniline	10.727	127	198866	6.669	ng	98
34) Hexachlorobutadiene	10.922	225	483210	37.597	ng	100
35) Caprolactam	11.492	113	218784	35.541	ng	99
36) 4-Chloro-3-methylphenol	11.851	107	937360	45.241	ng	100
37) 2-Methylnaphthalene	12.239	142	1851170	43.871	ng	98
38) 1-Methylnaphthalene	12.457	142	1939756	43.312	ng	100
40) 1,2,4,5-Tetrachloroben...	12.610	216	1017405	46.467	ng	99
41) Hexachlorocyclopentadiene	12.598	237	1179961	88.739	ng	98
43) 2,4,6-Trichlorophenol	12.845	196	698333	48.500	ng	99

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM060625\
Data File : BM050214.D
Acq On : 06 Jun 2025 14:46
Operator : RC/JU
Sample : Q2194-02MSD
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
COMP-12MSD

Quant Time: Jun 06 15:29:27 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM060525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jun 05 16:20:25 2025
Response via : Initial Calibration

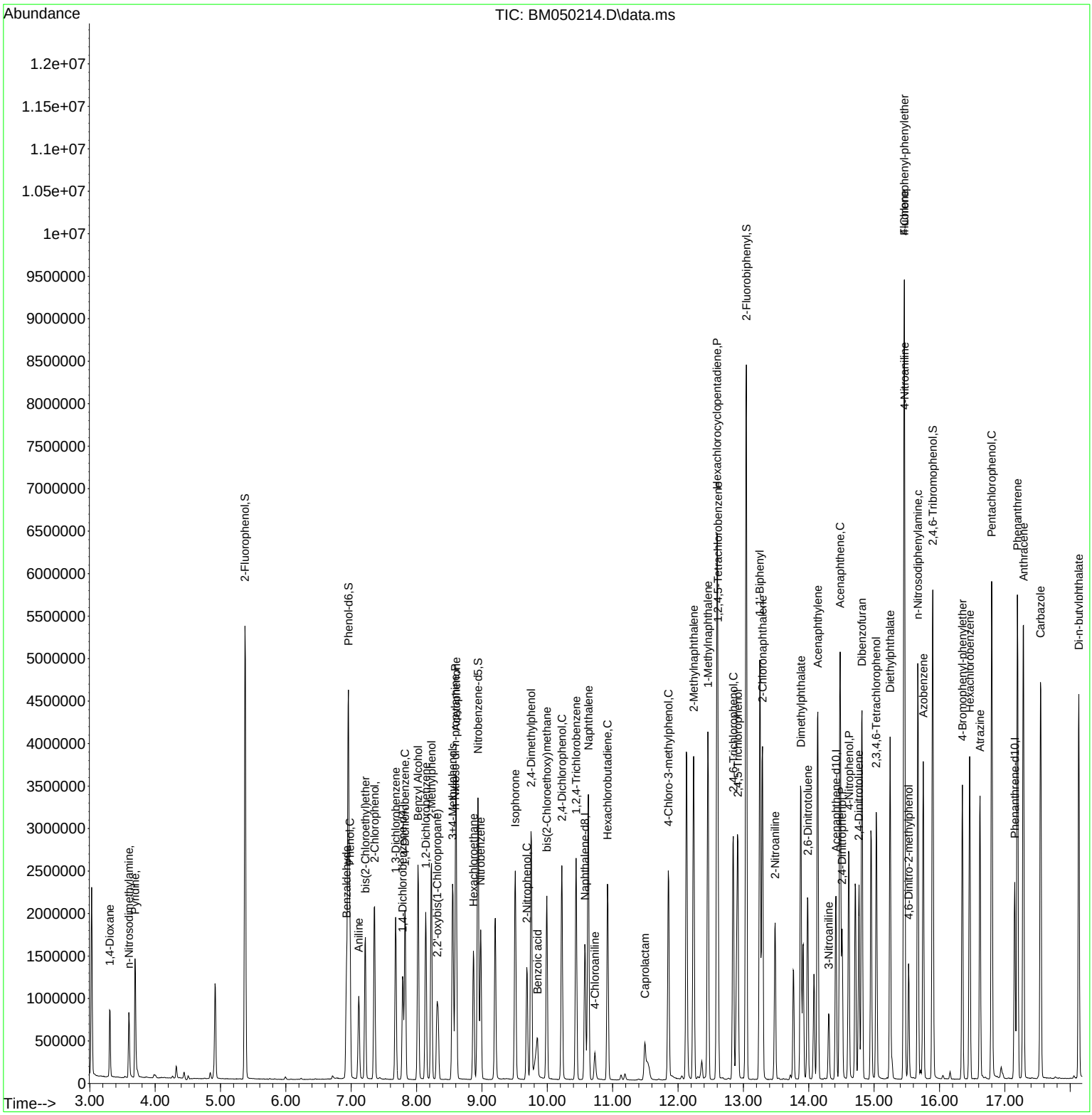
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	12.916	196	767542	48.551	ng		99
46) 1,1'-Biphenyl	13.251	154	2625883	46.249	ng		99
47) 2-Chloronaphthalene	13.292	162	1999316	45.295	ng		99
48) 2-Nitroaniline	13.486	65	490159	50.461	ng		97
49) Acenaphthylene	14.139	152	3263812	45.715	ng		100
50) Dimethylphthalate	13.880	163	2345250	45.734	ng		100
51) 2,6-Dinitrotoluene	13.986	165	501495	48.493	ng		97
52) Acenaphthene	14.480	154	2109603	47.242	ng		99
53) 3-Nitroaniline	14.304	138	213950	18.563	ng		97
54) 2,4-Dinitrophenol	14.510	184	391784	62.914	ng		97
55) Dibenzofuran	14.815	168	2933472	44.902	ng		100
56) 4-Nitrophenol	14.615	139	824021	83.999	ng		96
57) 2,4-Dinitrotoluene	14.768	165	679308	49.796	ng		99
58) Fluorene	15.462	166	2225190	44.470	ng		99
59) 2,3,4,6-Tetrachlorophenol	15.033	232	626743	45.823	ng		93
60) Diethylphthalate	15.245	149	2268471	44.584	ng		99
61) 4-Chlorophenyl-phenyle...	15.462	204	1086187	44.914	ng		96
62) 4-Nitroaniline	15.468	138	452689	41.906	ng		99
63) Azobenzene	15.751	77	2261283	44.465	ng		99
65) 4,6-Dinitro-2-methylph...	15.527	198	303377	42.747	ng		98
66) n-Nitrosodiphenylamine	15.668	169	1929064	47.249	ng		99
67) 4-Bromophenyl-phenylether	16.351	248	680727	49.127	ng		97
68) Hexachlorobenzene	16.462	284	773916	47.804	ng		99
69) Atrazine	16.621	200	635775	48.872	ng		99
70) Pentachlorophenol	16.798	266	1002846	95.277	ng		100
71) Phenanthrene	17.192	178	3388322	45.646	ng		99
72) Anthracene	17.286	178	3428718	46.172	ng		100
73) Carbazole	17.545	167	3064592	45.300	ng		100
74) Di-n-butylphthalate	18.133	149	3501656	47.570	ng		100
75) Fluoranthene	19.203	202	3506137	44.789	ng		98
77) Benzidine	19.386	184	550924	17.201	ng		99
78) Pyrene	19.568	202	3678874	47.922	ng		100
80) Butylbenzylphthalate	20.480	149	1338750	52.280	ng		100
81) Benzo(a)anthracene	21.362	228	3412641	47.336	ng		100
82) 3,3'-Dichlorobenzidine	21.286	252	478234	21.753	ng		98
83) Chrysene	21.427	228	3203963	46.721	ng		99
84) Bis(2-ethylhexyl)phtha...	21.315	149	2017255	51.142	ng		98
85) Di-n-octyl phthalate	22.456	149	3248139	55.495	ng		100
87) Indeno(1,2,3-cd)pyrene	27.744	276	4296977	52.994	ng	#	92
88) Benzo(b)fluoranthene	23.433	252	3428235	46.823	ng		99
89) Benzo(k)fluoranthene	23.497	252	3435270	45.960	ng		99
90) Benzo(a)pyrene	24.232	252	3318053	48.199	ng		99
91) Dibenzo(a,h)anthracene	27.815	278	3460522	52.578	ng		100
92) Benzo(g,h,i)perylene	28.797	276	3528136	53.558	ng		100

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM060625\
Data File : BM050214.D
Acq On : 06 Jun 2025 14:46
Operator : RC/JU
Sample : Q2194-02MSD
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
COMP-12MSD

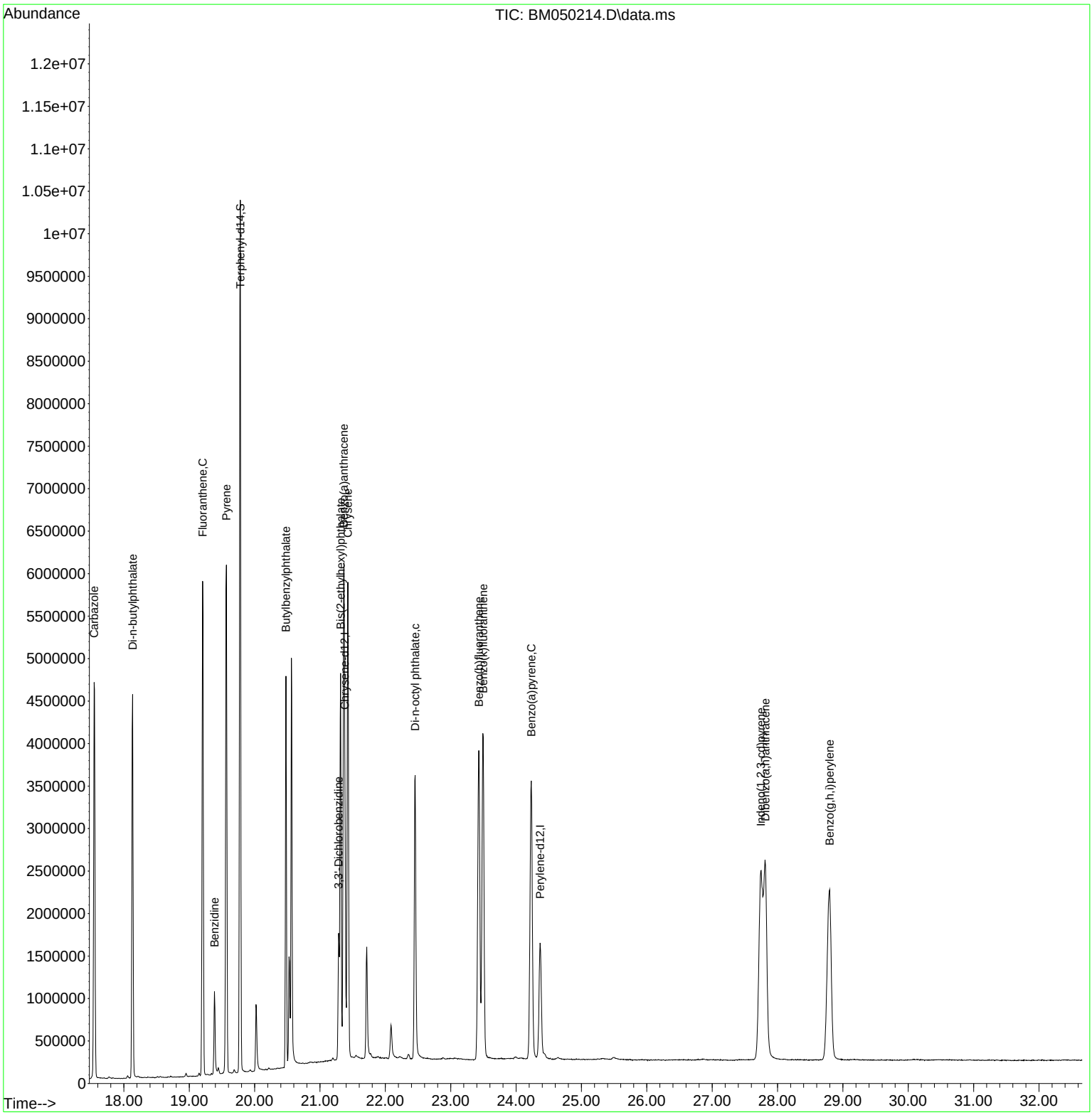
Quant Time: Jun 06 15:29:27 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM060525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jun 05 16:20:25 2025
Response via : Initial Calibration



Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM060625\
Data File : BM050214.D
Acq On : 06 Jun 2025 14:46
Operator : RC/JU
Sample : Q2194-02MSD
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
COMP-12MSD

Quant Time: Jun 06 15:29:27 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM060525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jun 05 16:20:25 2025
Response via : Initial Calibration



284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

Manual Integration Report

Sequence:	BM060525	Instrument	BNA_m

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDICC005	BM050195.D	2,3,4,6-Tetrachlorophenol	Rahul	6/6/2025 12:19:17 PM	Jagrut	6/6/2025 1:16:08 PM	Peak Integrated by Software
SSTDICC005	BM050195.D	Benzaldehyde	Rahul	6/6/2025 12:19:17 PM	Jagrut	6/6/2025 1:16:08 PM	Peak Integrated by Software
SSTDICC010	BM050196.D	2,3,4,6-Tetrachlorophenol	Rahul	6/5/2025 4:48:25 PM	Jagrut	6/6/2025 1:16:10 PM	Peak Integrated by Software
SSTDICC020	BM050197.D	Benzaldehyde	Rahul	6/6/2025 12:19:19 PM	Jagrut	6/6/2025 1:16:13 PM	Peak Integrated by Software
SSTDICCC040	BM050198.D	2,3,4,6-Tetrachlorophenol	Rahul	6/5/2025 4:48:28 PM	Jagrut	6/6/2025 1:16:15 PM	Peak Integrated by Software
SSTDICV040	BM050202.D	Benzaldehyde	Rahul	6/5/2025 4:48:30 PM	Jagrut	6/6/2025 1:16:18 PM	Peak Integrated by Software

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Manual Integration Report

Sequence:	BM060625	Instrument	BNA_m

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDCCC040	BM050206.D	2,3,4,6-Tetrachlorophenol	Rahul	6/9/2025 10:50:24 AM	Jagrut	6/9/2025 12:05:51 PM	Peak Integrated by Software
SSTDCCC040	BM050223.D	2,3,4,6-Tetrachlorophenol	Rahul	6/9/2025 10:50:43 AM	Jagrut	6/9/2025 12:06:05 PM	Peak Integrated by Software
PB168314BS	BM050225.D	2,3,4,6-Tetrachlorophenol	Rahul	6/9/2025 10:50:46 AM	Jagrut	6/9/2025 12:06:08 PM	Peak Integrated by Software

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Instrument ID: BNA_M

Daily Analysis Runlog For Sequence/QCBatch ID # BM060525

Review By	Rahul	Review On	6/6/2025 12:27:19 PM				
Supervise By	Jagrut	Supervise On	6/6/2025 1:16:37 PM				
SubDirectory	BM060525	HP Acquire Method	BNA_M		HP Processing Method	bm060525	

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6784,SP6785,SP6786,SP6787,SP6788,SP6790,SP6789,SP6791
CCC	SP6787
Internal Standard/PEM	S12667,10ul/1000ul sample
ICV/I.BLK	SP6796
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BM050193.D	05 Jun 2025 08:40	RC/JU	Ok
2	SSTDICC2.5	BM050194.D	05 Jun 2025 09:20	RC/JU	Ok
3	SSTDICC005	BM050195.D	05 Jun 2025 09:59	RC/JU	Ok,M
4	SSTDICC010	BM050196.D	05 Jun 2025 10:38	RC/JU	Ok,M
5	SSTDICC020	BM050197.D	05 Jun 2025 11:17	RC/JU	Ok,M
6	SSTDICCC040	BM050198.D	05 Jun 2025 11:57	RC/JU	Ok,M
7	SSTDICC050	BM050199.D	05 Jun 2025 12:36	RC/JU	Ok
8	SSTDICC060	BM050200.D	05 Jun 2025 13:16	RC/JU	Ok
9	SSTDICC080	BM050201.D	05 Jun 2025 13:56	RC/JU	Ok
10	SSTDICV040	BM050202.D	05 Jun 2025 14:36	RC/JU	Ok,M
11	PB168224TB	BM050203.D	05 Jun 2025 16:35	RC/JU	Ok
12	SP6794	BM050204.D	05 Jun 2025 17:15	RC/JU	Ok

M : Manual Integration

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Instrument ID: BNA_M

Daily Analysis Runlog For Sequence/QCBatch ID # BM060625

Review By	Rahul	Review On	6/9/2025 11:33:37 AM				
Supervise By	Jagrut	Supervise On	6/9/2025 12:06:36 PM				
SubDirectory	BM060625	HP Acquire Method	BNA_M		HP Processing Method	bm060525	

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6784,SP6785,SP6786,SP6787,SP6788,SP6790,SP6789,SP6791
CCC	SP6787
Internal Standard/PEM	S12667,10ul/1000ul sample
ICV/I.BLK	SP6796
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BM050205.D	06 Jun 2025 08:50	RC/JU	Ok
2	SSTDCCC040	BM050206.D	06 Jun 2025 09:29	RC/JU	Ok,M
3	PB168269BL	BM050207.D	06 Jun 2025 10:08	RC/JU	Ok
4	PB168269BS	BM050208.D	06 Jun 2025 10:47	RC/JU	Ok,M
5	Q2177-03	BM050209.D	06 Jun 2025 11:27	RC/JU	Ok
6	Q2177-03MS	BM050210.D	06 Jun 2025 12:06	RC/JU	Ok,M
7	Q2177-03MSD	BM050211.D	06 Jun 2025 12:46	RC/JU	Ok
8	Q2194-02	BM050212.D	06 Jun 2025 13:26	RC/JU	Ok
9	Q2194-02MS	BM050213.D	06 Jun 2025 14:06	RC/JU	Ok
10	Q2194-02MSD	BM050214.D	06 Jun 2025 14:46	RC/JU	Ok
11	Q2194-04	BM050215.D	06 Jun 2025 15:26	RC/JU	Ok,M
12	Q2207-09	BM050216.D	06 Jun 2025 16:06	RC/JU	Ok,M
13	Q2207-18	BM050217.D	06 Jun 2025 16:45	RC/JU	Ok,M
14	Q2207-27	BM050218.D	06 Jun 2025 17:25	RC/JU	Ok
15	Q2207-36	BM050219.D	06 Jun 2025 18:05	RC/JU	Ok
16	Q2207-45	BM050220.D	06 Jun 2025 18:45	RC/JU	Ok
17	Q2208-09	BM050221.D	06 Jun 2025 19:24	RC/JU	Ok
18	DFTPP	BM050222.D	06 Jun 2025 20:43	RC/JU	Ok
19	SSTDCCC040	BM050223.D	06 Jun 2025 21:23	RC/JU	Ok,M
20	PB168314BL	BM050224.D	06 Jun 2025 22:03	RC/JU	Ok
21	PB168314BS	BM050225.D	06 Jun 2025 22:42	RC/JU	Ok,M

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Instrument ID: BNA_M

Daily Analysis Runlog For Sequence/QCBatch ID # BM060625

Review By	Rahul	Review On	6/9/2025 11:33:37 AM		
Supervise By	Jagrut	Supervise On	6/9/2025 12:06:36 PM		
SubDirectory	BM060625	HP Acquire Method	BNA_M	HP Processing Method	bm060525

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6784,SP6785,SP6786,SP6787,SP6788,SP6790,SP6789,SP6791
CCC	SP6787
Internal Standard/PEM	S12667,10ul/1000ul sample
ICV/I.BLK	SP6796
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	PB168271TB	BM050226.D	06 Jun 2025 23:22	RC/JU	Ok
23	Q2208-27	BM050227.D	07 Jun 2025 00:02	RC/JU	Ok
24	Q2208-36	BM050228.D	07 Jun 2025 00:41	RC/JU	Ok
25	Q2198-02	BM050229.D	07 Jun 2025 01:21	RC/JU	Ok
26	Q2198-04	BM050230.D	07 Jun 2025 02:01	RC/JU	Ok
27	Q2206-04	BM050231.D	07 Jun 2025 02:41	RC/JU	Ok
28	Q2177-05	BM050232.D	07 Jun 2025 03:20	RC/JU	Ok
29	Q2177-07	BM050233.D	07 Jun 2025 04:00	RC/JU	Ok
30	Q2208-18	BM050234.D	07 Jun 2025 04:39	RC/JU	Ok

M : Manual Integration

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Instrument ID: BNA_M

Daily Analysis Runlog For Sequence/QCBatch ID # BM060525

Review By	Rahul	Review On	6/6/2025 12:27:19 PM		
Supervise By	Jagrut	Supervise On	6/6/2025 1:16:37 PM		
SubDirectory	BM060525	HP Acquire Method	BNA_M	HP Processing Method	bm060525

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6784,SP6785,SP6786,SP6787,SP6788,SP6790,SP6789,SP6791
CCC	SP6787
Internal Standard/PEM	S12667,10ul/1000ul sample
ICV/I.BLK	SP6796
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BM050193.D	05 Jun 2025 08:40		RC/JU	Ok
2	SSTDICC2.5	SSTDICC2.5	BM050194.D	05 Jun 2025 09:20		RC/JU	Ok
3	SSTDICC005	SSTDICC005	BM050195.D	05 Jun 2025 09:59	Compound #32,54,65,77 removed from 5PPM	RC/JU	Ok,M
4	SSTDICC010	SSTDICC010	BM050196.D	05 Jun 2025 10:38	Compound #54 kept on QR	RC/JU	Ok,M
5	SSTDICC020	SSTDICC020	BM050197.D	05 Jun 2025 11:17		RC/JU	Ok,M
6	SSTDICCC040	SSTDICCC040	BM050198.D	05 Jun 2025 11:57	The compound # 85 failed in the Calibration.	RC/JU	Ok,M
7	SSTDICC050	SSTDICC050	BM050199.D	05 Jun 2025 12:36		RC/JU	Ok
8	SSTDICC060	SSTDICC060	BM050200.D	05 Jun 2025 13:16		RC/JU	Ok
9	SSTDICC080	SSTDICC080	BM050201.D	05 Jun 2025 13:56	Compound #9 removed from 80PPM	RC/JU	Ok
10	SSTDICV040	ICVBM060525	BM050202.D	05 Jun 2025 14:36		RC/JU	Ok,M
11	PB168224TB	PB168224TB	BM050203.D	05 Jun 2025 16:35		RC/JU	Ok
12	SP6794	SP6794	BM050204.D	05 Jun 2025 17:15		RC/JU	Ok

M : Manual Integration

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Instrument ID: BNA_M

Daily Analysis Runlog For Sequence/QCBatch ID # BM060625

Review By	Rahul	Review On	6/9/2025 11:33:37 AM		
Supervise By	Jagrut	Supervise On	6/9/2025 12:06:36 PM		
SubDirectory	BM060625	HP Acquire Method	BNA_M	HP Processing Method	bm060525

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6784,SP6785,SP6786,SP6787,SP6788,SP6790,SP6789,SP6791
CCC	SP6787
Internal Standard/PEM	S12667,10ul/1000ul sample
ICV/I.BLK	SP6796
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BM050205.D	06 Jun 2025 08:50		RC/JU	Ok
2	SSTDCCC040	SSTDCCC040	BM050206.D	06 Jun 2025 09:29		RC/JU	Ok,M
3	PB168269BL	PB168269BL	BM050207.D	06 Jun 2025 10:08		RC/JU	Ok
4	PB168269BS	PB168269BS	BM050208.D	06 Jun 2025 10:47		RC/JU	Ok,M
5	Q2177-03	B-187-SB01	BM050209.D	06 Jun 2025 11:27		RC/JU	Ok
6	Q2177-03MS	B-187-SB01MS	BM050210.D	06 Jun 2025 12:06		RC/JU	Ok,M
7	Q2177-03MSD	B-187-SB01MSD	BM050211.D	06 Jun 2025 12:46		RC/JU	Ok
8	Q2194-02	COMP-12	BM050212.D	06 Jun 2025 13:26		RC/JU	Ok
9	Q2194-02MS	COMP-12MS	BM050213.D	06 Jun 2025 14:06		RC/JU	Ok
10	Q2194-02MSD	COMP-12MSD	BM050214.D	06 Jun 2025 14:46		RC/JU	Ok
11	Q2194-04	COMP-13	BM050215.D	06 Jun 2025 15:26		RC/JU	Ok,M
12	Q2207-09	BU-703-COMP-01	BM050216.D	06 Jun 2025 16:06		RC/JU	Ok,M
13	Q2207-18	BU-703-COMP-02	BM050217.D	06 Jun 2025 16:45		RC/JU	Ok,M
14	Q2207-27	BU-703-COMP-03	BM050218.D	06 Jun 2025 17:25		RC/JU	Ok
15	Q2207-36	BU-703-COMP-04	BM050219.D	06 Jun 2025 18:05		RC/JU	Ok
16	Q2207-45	BU-703-COMP-05	BM050220.D	06 Jun 2025 18:45		RC/JU	Ok
17	Q2208-09	BU-703-COMP-06	BM050221.D	06 Jun 2025 19:24		RC/JU	Ok
18	DFTPP	DFTPP	BM050222.D	06 Jun 2025 20:43		RC/JU	Ok

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Instrument ID: BNA_M

Daily Analysis Runlog For Sequence/QCBatch ID # BM060625

Review By	Rahul	Review On	6/9/2025 11:33:37 AM		
Supervise By	Jagrut	Supervise On	6/9/2025 12:06:36 PM		
SubDirectory	BM060625	HP Acquire Method	BNA_M	HP Processing Method	bm060525

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6784,SP6785,SP6786,SP6787,SP6788,SP6790,SP6789,SP6791
CCC	SP6787
Internal Standard/PEM	S12667,10ul/1000ul sample
ICV/I.BLK	SP6796
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	SSTDCCC040	SSTDCCC040	BM050223.D	06 Jun 2025 21:23		RC/JU	Ok,M
20	PB168314BL	PB168314BL	BM050224.D	06 Jun 2025 22:03		RC/JU	Ok
21	PB168314BS	PB168314BS	BM050225.D	06 Jun 2025 22:42		RC/JU	Ok,M
22	PB168271TB	PB168271TB	BM050226.D	06 Jun 2025 23:22		RC/JU	Ok
23	Q2208-27	BU-703-COMP-08	BM050227.D	07 Jun 2025 00:02		RC/JU	Ok
24	Q2208-36	BU-703-COMP-09	BM050228.D	07 Jun 2025 00:41		RC/JU	Ok
25	Q2198-02	B-202-SB02	BM050229.D	07 Jun 2025 01:21		RC/JU	Ok
26	Q2198-04	B-207-SB02	BM050230.D	07 Jun 2025 02:01		RC/JU	Ok
27	Q2206-04	TP-1	BM050231.D	07 Jun 2025 02:41		RC/JU	Ok
28	Q2177-05	B-187-SB02	BM050232.D	07 Jun 2025 03:20		RC/JU	Ok
29	Q2177-07	B-202-SB01	BM050233.D	07 Jun 2025 04:00		RC/JU	Ok
30	Q2208-18	BU-703-COMP-07	BM050234.D	07 Jun 2025 04:39		RC/JU	Ok

M : Manual Integration

Alliance TECHNICAL GROUP

TCLP EXTRACTION LOGPAGE

PB168271

SOP ID : M1311-TCLP-16

SDG No : N/A

Weigh By : JP

Balance ID : WC SC-7

pH Meter ID : WC PH METER-1

Extraction By : JP

Filter By : JP

Pippete ID : WC

Tumbler ID : T-1 / T-2

TCLP Filter ID : 115525

Start Prep Date : 06/04/2025 **Time :** 15:00

End Prep Date : 06/05/2025 **Time :** 09:20

Combination Ratio : 20

ZHE Cleaning Batch : 10 N/A

Initial Room Temperature: 24 °C

Final Room Temperature: 22 °C

TCLP Technician Signature : JP

Supervisor By : JP

Standared Name	MLS USED	STD REF. # FROM LOG
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Chemical Used	ML/SAMPLE U	Lot Number
TCLP-FLUID-1	N/A	WP112795
HCL-TCLP,1N	N/A	WP112797
HNO3-TCLP,1N	N/A	WP112799
pH Strips	N/A	W1931,W1934,W3171,W3172
pH Strips	W1940,W1941,W1942	W3166,W1938,W1939,
1 Liter Amber	N/A	90924-08
120ml Plastic bottle	N/A	2738
1:1 HNO3	N/A	MP84041

Extraction Conformance/Non-Conformance Comments:

Matrix spikes are added after fiftration and before preservation. TUMBLER T-1 /T-2 checked,30 rpm. q2208-36 is used for MS-MSD.

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
06/05/25 11:30	JP ICP Room	JP RS 1 EXT
	Preparation Group	Analysis Group 1 2 4 1 2 4

Alliance TECHNICAL GROUP

TCLP EXTRACTION LOGPAGE

PB168271

Sample ID	ClientID	TCLP Vessel ID	Sample Wt (g)	Volume Extraction Fluid #1 (mL)	Multi phasic	Phase Miscible	Phases Combined	Final Leachate PH	Metals Leachate Adj. PH	Prep Pos
PB168271TB	LEB271	16	N/A	2000	N/A	N/A	N/A	4.94	1.0	T-2
Q2192-01	SB-1	01	100.02	2000	N/A	N/A	N/A	8.2	1.0	T-1
Q2194-02	COMP-12	02	100.03	2000	N/A	N/A	N/A	6.2	1.5	T-1
Q2194-04	COMP-13	03	100.02	2000	N/A	N/A	N/A	6.0	1.5	T-1
Q2198-02	B-202-SB02	04	100.03	2000	N/A	N/A	N/A	4.0	1.0	T-1
Q2198-04	~~B-207-SB01~~ B-207-SB02	05	100.02	2000	N/A	N/A	N/A	5.8	1.5	T-1
Q2206-04	TP-1 SB	06	100.02	2000	N/A	N/A	N/A	5.6	1.0	T-1
Q2207-09	BU-703-COMP-01 06-11-2025	07	100.03	2000	N/A	N/A	N/A	4.5	1.5	T-1
Q2207-18	BU-703-COMP-02	08	100.04	2000	N/A	N/A	N/A	3.0	1.0	T-1
Q2207-27	BU-703-COMP-03	09	100.02	2000	N/A	N/A	N/A	3.0	1.5	T-1
Q2207-36	BU-703-COMP-04	10	100.03	2000	N/A	N/A	N/A	5.5	1.0	T-1
Q2207-45	BU-703-COMP-05	11	100.02	2000	N/A	N/A	N/A	3.0	1.5	T-2
Q2208-09	BU-703-COMP-06	12	100.03	2000	N/A	N/A	N/A	3.0	1.0	T-2
Q2208-18	BU-703-COMP-07	13	100.02	2000	N/A	N/A	N/A	3.0	1.5	T-2
Q2208-27	BU-703-COMP-08	14	100.01	2000	N/A	N/A	N/A	5.0	1.5	T-2
Q2208-36	BU-703-COMP-09	15	100.02	2000	N/A	N/A	N/A	5.6	1.0	T-2

Alliance TECHNICAL GROUP

TCLP Solid Determination

PB168271

SampleID	ClientID	Sample Weight (g)	Filter Weight (g)	Filtrate (mL)	Filter + Solid (After 100°C)	% solids	% Dry Solids
PB168271TB	LEB271	N/A	N/A	N/A	N/A	N/A	N/A
Q2192-01	SB-1	N/A	N/A	N/A	N/A	100	N/A
Q2194-02	COMP-12	N/A	N/A	N/A	N/A	100	N/A
Q2194-04	COMP-13	N/A	N/A	N/A	N/A	100	N/A
Q2198-02	B-202-SB02	N/A	N/A	N/A	N/A	100	N/A
Q2198-04	~~B-207-SB01~~ B-207-SB02	N/A	N/A	N/A	N/A	100	N/A
Q2206-04	TP-1	N/A	N/A	N/A	N/A	100	N/A
Q2207-09	BU-703-COMP-01	N/A	N/A	N/A	N/A	100	N/A
Q2207-18	BU-703-COMP-02	N/A	N/A	N/A	N/A	100	N/A
Q2207-27	BU-703-COMP-03	N/A	N/A	N/A	N/A	100	N/A
Q2207-36	BU-703-COMP-04	N/A	N/A	N/A	N/A	100	N/A
Q2207-45	BU-703-COMP-05	N/A	N/A	N/A	N/A	100	N/A
Q2208-09	BU-703-COMP-06	N/A	N/A	N/A	N/A	100	N/A
Q2208-18	BU-703-COMP-07	N/A	N/A	N/A	N/A	100	N/A
Q2208-27	BU-703-COMP-08	N/A	N/A	N/A	N/A	100	N/A
Q2208-36	BU-703-COMP-09	N/A	N/A	N/A	N/A	100	N/A

Alliance TECHNICAL GROUP

TCLP Fluid Determination

PB168271

Hot Block ID : WC S-1 / WC S-2

Thermometer ID : FLASHPOINT

SampleID	ClientID	Sample Weight (g)	Volume DI Water (mL)	PH after 5 min stir	PH after 10 min stir	Extraction Fluid 1 or 2	pH Extraction Fluid
PB168271TB	LEB271	N/A	N/A	N/A	N/A	#1	4.94
Q2192-01	SB-1	5.02	96.5	9.5	4.0	#1	4.94
Q2194-02	COMP-12	5.03	96.5	8.4	3.5	#1	4.94
Q2194-04	COMP-13	5.02	96.5	8.2	3.5	#1	4.94
Q2198-02	B-202-SB02	5.02	96.5	6.6	2.5	#1	4.94
Q2198-04	~~B-207-SB~~01 B-207-SB02	5.03	96.5	8.0	3.0	#1	4.94
Q2206-04	TP-1 JP	5.02	96.5	7.6	2.5	#1	4.94
Q2207-09	BU-703-COMP-01	5.03	96.5	7.0	2.0	#1	4.94
Q2207-18	BU-703-COMP-02 06-11-2025	5.02	96.5	5.5	1.5	#1	4.94
Q2207-27	BU-703-COMP-03	5.01	96.5	6.0	2.0	#1	4.94
Q2207-36	BU-703-COMP-04	5.02	96.5	7.2	2.0	#1	4.94
Q2207-45	BU-703-COMP-05	5.03	96.5	5.5	1.5	#1	4.94
Q2208-09	BU-703-COMP-06	5.02	96.5	5.6	2.0	#1	4.94
Q2208-18	BU-703-COMP-07	5.03	96.5	5.5	1.5	#1	4.94
Q2208-27	BU-703-COMP-08	5.02	96.5	6.0	2.0	#1	4.94
Q2208-36	BU-703-COMP-09	5.01	96.5	7.0	2.5	#1	4.94

WORKLIST(Hardcopy Internal Chain)

WorkList Name : TCLP Q2198 **WorkList ID :** 189914 **Department :** TCLP Extraction **Date :** 06-04-2025 09:51:15

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2192-01	SB-1	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	L21	06/03/2025	1311
Q2194-02	COMP-12	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	L31	06/03/2025	1311
Q2194-04	COMP-13	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	L31	06/03/2025	1311
Q2198-02	B-202-SB02	Solid	TCLP Extraction	Cool 4 deg C	PORT06	N22	05/31/2025	1311
Q2198-04	~~B-207-SB01~~ B-207-SB02	Solid	TCLP Extraction	Cool 4 deg C	PORT06	N22	06/01/2025	1311
Q2206-04	TP-1	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	N31	06/04/2025	1311
Q2207-09	BU-703-COMP-01	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	N31	06/02/2025	1311
Q2207-18	BU-703-COMP-02	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	N31	06/02/2025	1311
Q2207-27	BU-703-COMP-03	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	N31	06/02/2025	1311
Q2207-36	BU-703-COMP-04	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	N31	06/02/2025	1311
Q2207-45	BU-703-COMP-05	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	N31	06/02/2025	1311
Q2208-09	BU-703-COMP-06	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	N31	06/02/2025	1311
Q2208-18	BU-703-COMP-07	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	N31	06/02/2025	1311
Q2208-27	BU-703-COMP-08	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	N31	06/02/2025	1311
Q2208-36	BU-703-COMP-09	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	N31	06/02/2025	1311

Date/Time 06/04/25 12:00

Raw Sample Received by:

Raw Sample Relinquished by:

Date/Time 06/04/25 17:30

Raw Sample Received by:

Raw Sample Relinquished by:

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PB168314

SOP ID:	M3510C,3580A-Extraction SVOC-20				
Clean Up SOP #:	N/A			**Extraction Start Date :**	06/05/2025
Matrix :	Water			**Extraction Start Time :**	11:44
Weigh By:	N/A	**Extraction By:**	RS	**Extraction End Date :**	06/05/2025
Balance check:	N/A	**Filter By:**	RJ	**Extraction End Time :**	16:50
Balance ID:	N/A	**pH Meter ID:**	N/A	**Concentration By:**	EH
pH Strip Lot#:	E3880	**Hood ID:**	4,5,6,7	**Supervisor By :**	RUPESH

Extraction Method: ☑ Seperatory Funnel ☐ Continious Liquid/Liquid ☐ Sonication ☐ Waste Dilution ☐ Soxhlet

Standared Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Spike Sol 1	1.0ML	50/100 PPM	SP6794
Surrogate	1.0ML	100/150 PPM	SP6754
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
Methylene Chloride	N/A	E3939
Baked Na2SO4	N/A	EP2620
10N NaoH	N/A	EP2609
H2SO4 1:1	N/A	EP2610
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

1.5 ML Vial lot# 2210443. pH Adjusted<2 with 1:1 H2SO4 &>11 with 10 N NaOH.

KD Bath ID:	WATER BATH-1,2	**Envap ID:**	NEVAP-02
KD Bath Temperature:	60 °C	**Envap Temperature:**	40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
6/5/25	RS (Ext-lab)	JH/ SVOC
16:55	**Preparation Group**	**Analysis Group**

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PrepBatch ID : PB168314

Analytical Method: M3510C,3580A-Extraction SVOC-20

Concentration Date: 06/05/2025

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB168271TB	PB168271TB	TCLP BNA	100	6	RUPESH	ritesh	1			SEP-1
PB168314BL	PB168314BL	TCLP BNA	1000	6	RUPESH	ritesh	1			2
PB168314BS	PB168314BS	TCLP BNA	1000	6	RUPESH	ritesh	1			3
Q2194-02	COMP-12	TCLP BNA	100	6	RUPESH	ritesh	1	A		4
Q2194-02MS	COMP-12MS	TCLP BNA	100	6	RUPESH	ritesh	1	A		5
Q2194-02MSD	COMP-12MSD	TCLP BNA	100	6	RUPESH	ritesh	1	A		6
Q2194-04	COMP-13	TCLP BNA	100	6	RUPESH	ritesh	1	A		7
Q2198-02	B-202-SB02	TCLP BNA	100	6	RUPESH	ritesh	1	A		8
Q2198-04	B-207-SB01	TCLP BNA	100	6	RUPESH	ritesh	1	A		9
Q2206-04	TP-1	TCLP BNA	100	6	RUPESH	ritesh	1	A		10
Q2207-09	BU-703-COMP-01	TCLP BNA	100	6	RUPESH	ritesh	1	A		11
Q2207-18	BU-703-COMP-02	TCLP BNA	100	6	RUPESH	ritesh	1	A		12
Q2207-27	BU-703-COMP-03	TCLP BNA	100	6	RUPESH	ritesh	1	A		13
Q2207-36	BU-703-COMP-04	TCLP BNA	100	6	RUPESH	ritesh	1	A		14
Q2207-45	BU-703-COMP-05	TCLP BNA	100	6	RUPESH	ritesh	1	AA		15
Q2208-09	BU-703-COMP-06	TCLP BNA	100	6	RUPESH	ritesh	1	A		16
Q2208-18	BU-703-COMP-07	TCLP BNA	100	6	RUPESH	ritesh	1	A		SEP-1
Q2208-27	BU-703-COMP-08	TCLP BNA	100	6	RUPESH	ritesh	1	A		2
Q2208-36	BU-703-COMP-09	TCLP BNA	100	6	RUPESH	ritesh	1	A		3

RS 6/5

* **Extracts relinquished on the same date as received.**

Alliance TECHNICAL GROUP

TCLP EXTRACTION LOGPAGE

PB168271

Sample ID	ClientID	TCLP Vessel ID	Sample Wt (g)	Volume Extraction Fluid #1 (mL)	Multi phasic	Phase Miscible	Phases Combined	Final Leachate PH	Metals Leachate Adj. PH	Prep Pos
PB168271TB	LEB271	16	N/A	2000	N/A	N/A	N/A	4.94	1.0	T-2
Q2192-01	SB-1	01	100.02	2000	N/A	N/A	N/A	8.2	1.0	T-1
Q2194-02	COMP-12	02	100.03	2000	N/A	N/A	N/A	6.2	1.5	T-1
Q2194-04	COMP-13	03	100.02	2000	N/A	N/A	N/A	6.0	1.5	T-1
Q2198-02	B-202-SB02	04	100.03	2000	N/A	N/A	N/A	4.0	1.0	T-1
Q2198-04	B-207-SB01	05	100.02	2000	N/A	N/A	N/A	5.8	1.5	T-1
Q2206-04	TP-1	06	100.02	2000	N/A	N/A	N/A	5.6	1.0	T-1
Q2207-09	BU-703-COMP-01	07	100.03	2000	N/A	N/A	N/A	4.5	1.5	T-1
Q2207-18	BU-703-COMP-02	08	100.04	2000	N/A	N/A	N/A	3.0	1.0	T-1
Q2207-27	BU-703-COMP-03	09	100.02	2000	N/A	N/A	N/A	3.0	1.5	T-1
Q2207-36	BU-703-COMP-04	10	100.03	2000	N/A	N/A	N/A	5.5	1.0	T-1
Q2207-45	BU-703-COMP-05	11	100.02	2000	N/A	N/A	N/A	3.0	1.5	T-2
Q2208-09	BU-703-COMP-06	12	100.03	2000	N/A	N/A	N/A	3.0	1.0	T-2
Q2208-18	BU-703-COMP-07	13	100.02	2000	N/A	N/A	N/A	3.0	1.5	T-2
Q2208-27	BU-703-COMP-08	14	100.01	2000	N/A	N/A	N/A	5.0	1.5	T-2
Q2208-36	BU-703-COMP-09	15	100.02	2000	N/A	N/A	N/A	5.6	1.0	T-2

06/05/25
11.30

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

LAB CHRONICLE

OrderID:	Q2198	**OrderDate:**	6/3/2025 2:31:00 PM
Client:	Portal Partners Tri-Venture	**Project:**	Amtrak Sawtooth Bridges 2025
Contact:	Joseph Krupansky	**Location:**	N22,VOA Ref. #2 Soil,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2198-02	**B-202-SB02**	**TCLP**			**05/31/25**			**06/03/25**
			TCLP BNA	8270E		06/05/25	06/07/25	
Q2198-04	**B-207-SB02**	**TCLP**			**06/01/25**			**06/03/25**
			TCLP BNA	8270E		06/05/25	06/07/25	

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Hit Summary Sheet
SW-846

SDG No.: Q2198 **Order ID:** Q2198

Client: Portal Partners Tri-Venture **Project ID:** Amtrak Sawtooth Bridges 2025

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units

Client ID :

Total Concentration: **0.000**

SAMPLE DATA

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	05/31/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	06/03/25
Client Sample ID:	B-202-SB02	SDG No.:	Q2198
Lab Sample ID:	Q2198-01	Matrix:	SOIL
Analytical Method:	8082A	% Solid:	71.9 Decanted:
Sample Wt/Vol:	30.02 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP072633.D	1	06/04/25 12:09	06/04/25 18:40	PB168288

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	5.50	U	5.50	23.6	ug/kg
11104-28-2	Aroclor-1221	5.60	U	5.60	23.6	ug/kg
11141-16-5	Aroclor-1232	5.20	U	5.20	23.6	ug/kg
53469-21-9	Aroclor-1242	5.60	U	5.60	23.6	ug/kg
12672-29-6	Aroclor-1248	8.20	U	8.20	23.6	ug/kg
11097-69-1	Aroclor-1254	4.50	U	4.50	23.6	ug/kg
37324-23-5	Aroclor-1262	7.00	U	7.00	23.6	ug/kg
11100-14-4	Aroclor-1268	5.00	U	5.00	23.6	ug/kg
11096-82-5	Aroclor-1260	4.50	U	4.50	23.6	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	20.4		30 (32) - 150 (144)	102%	SPK: 20
2051-24-3	Decachlorobiphenyl	16.0		30 (32) - 150 (175)	80%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	06/01/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	06/03/25
Client Sample ID:	B-207-SB02	SDG No.:	Q2198
Lab Sample ID:	Q2198-03	Matrix:	SOIL
Analytical Method:	8082A	% Solid:	52.1 Decanted:
Sample Wt/Vol:	30.05 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PO111473.D	1	06/04/25 12:09	06/04/25 16:52	PB168288

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	7.60	U	7.60	32.6	ug/kg
11104-28-2	Aroclor-1221	7.70	U	7.70	32.6	ug/kg
11141-16-5	Aroclor-1232	7.10	U	7.10	32.6	ug/kg
53469-21-9	Aroclor-1242	7.70	U	7.70	32.6	ug/kg
12672-29-6	Aroclor-1248	11.3	U	11.3	32.6	ug/kg
11097-69-1	Aroclor-1254	6.20	U	6.20	32.6	ug/kg
37324-23-5	Aroclor-1262	9.60	U	9.60	32.6	ug/kg
11100-14-4	Aroclor-1268	6.90	U	6.90	32.6	ug/kg
11096-82-5	Aroclor-1260	6.20	U	6.20	32.6	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	18.9		30 (32) - 150 (144)	95%	SPK: 20
2051-24-3	Decachlorobiphenyl	11.5		30 (32) - 150 (175)	57%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
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Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	05/31/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	06/03/25
Client Sample ID:	B-202-GW01	SDG No.:	Q2198
Lab Sample ID:	Q2198-05	Matrix:	WATER
Analytical Method:	8082A	% Solid:	0 Decanted:
Sample Wt/Vol:	980 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP072711.D	1	06/06/25 09:14	06/06/25 20:35	PB168325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	0.099	U	0.099	0.51	ug/L
11104-28-2	Aroclor-1221	0.13	U	0.13	0.51	ug/L
11141-16-5	Aroclor-1232	0.098	U	0.098	0.51	ug/L
53469-21-9	Aroclor-1242	0.12	U	0.12	0.51	ug/L
12672-29-6	Aroclor-1248	0.072	U	0.072	0.51	ug/L
11097-69-1	Aroclor-1254	0.096	U	0.096	0.51	ug/L
37324-23-5	Aroclor-1262	0.14	U	0.14	0.51	ug/L
11100-14-4	Aroclor-1268	0.11	U	0.11	0.51	ug/L
11096-82-5	Aroclor-1260	0.083	U	0.083	0.51	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	22.6		30 (30) - 150 (173)	113%	SPK: 20
2051-24-3	Decachlorobiphenyl	14.7		30 (10) - 150 (173)	74%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

QC SUMMARY

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Surrogate Summary

SDG No.: Q2198

Client: Portal Partners Tri-Venture

Analytical Method: 8082A

Lab Sample ID	Client ID	Parameter	Column	Spike	Result	Rec	Qual	Limits Low	Limits High
I.BLK-PO111057.D	PIBLK-PO111057.D	Tetrachloro-m-xylene	1	20	16.4	82		70 (60)	130 (140)
		Decachlorobiphenyl	1	20	17.5	87		70 (60)	130 (140)
		Tetrachloro-m-xylene	2	20	15.4	77		70 (60)	130 (140)
		Decachlorobiphenyl	2	20	17.9	90		70 (60)	130 (140)
I.BLK-PO111472.D	PIBLK-PO111472.D	Tetrachloro-m-xylene	1	20	19.6	98		70 (60)	130 (140)
		Decachlorobiphenyl	1	20	18.9	95		70 (60)	130 (140)
		Tetrachloro-m-xylene	2	20	18.1	91		70 (60)	130 (140)
		Decachlorobiphenyl	2	20	17.8	89		70 (60)	130 (140)
Q2198-03	B-207-SB02	Tetrachloro-m-xylene	1	20	18.9	95		30 (32)	150 (144)
		Decachlorobiphenyl	1	20	11.5	57		30 (32)	150 (175)
		Tetrachloro-m-xylene	2	20	17.5	88		30 (32)	150 (144)
		Decachlorobiphenyl	2	20	11.0	55		30 (32)	150 (175)
I.BLK-PO111481.D	PIBLK-PO111481.D	Tetrachloro-m-xylene	1	20	19.7	99		70 (60)	130 (140)
		Decachlorobiphenyl	1	20	18.9	95		70 (60)	130 (140)
		Tetrachloro-m-xylene	2	20	18.1	90		70 (60)	130 (140)
		Decachlorobiphenyl	2	20	17.8	89		70 (60)	130 (140)
I.BLK-PP072163.D	PIBLK-PP072163.D	Tetrachloro-m-xylene	1	20	16.3	82		70 (60)	130 (140)
		Decachlorobiphenyl	1	20	16.7	84		70 (60)	130 (140)
		Tetrachloro-m-xylene	2	20	16.6	83		70 (60)	130 (140)
		Decachlorobiphenyl	2	20	17.0	85		70 (60)	130 (140)
I.BLK-PP072623.D	PIBLK-PP072623.D	Tetrachloro-m-xylene	1	20	17.3	87		70 (60)	130 (140)
		Decachlorobiphenyl	1	20	18.9	94		70 (60)	130 (140)
		Tetrachloro-m-xylene	2	20	19.3	97		70 (60)	130 (140)
		Decachlorobiphenyl	2	20	21.0	105		70 (60)	130 (140)
PB168288BL	PB168288BL	Tetrachloro-m-xylene	1	20	18.6	93		30 (32)	150 (144)
		Decachlorobiphenyl	1	20	20.5	102		30 (32)	150 (175)
		Tetrachloro-m-xylene	2	20	20.1	100		30 (32)	150 (144)
		Decachlorobiphenyl	2	20	23.1	115		30 (32)	150 (175)
Q2195-01MS	OK-01-060325MS	Tetrachloro-m-xylene	1	20	15.0	75		30 (32)	150 (144)
		Decachlorobiphenyl	1	20	15.7	79		30 (32)	150 (175)
		Tetrachloro-m-xylene	2	20	19.6	98		30 (32)	150 (144)
		Decachlorobiphenyl	2	20	19.3	97		30 (32)	150 (175)
Q2195-01MSD	OK-01-060325MSD	Tetrachloro-m-xylene	1	20	14.7	74		30 (32)	150 (144)
		Decachlorobiphenyl	1	20	14.9	75		30 (32)	150 (175)
		Tetrachloro-m-xylene	2	20	19.8	99		30 (32)	150 (144)
		Decachlorobiphenyl	2	20	18.0	90		30 (32)	150 (175)
Q2198-01	B-202-SB02	Tetrachloro-m-xylene	1	20	15.9	79		30 (32)	150 (144)
		Decachlorobiphenyl	1	20	13.5	68		30 (32)	150 (175)
		Tetrachloro-m-xylene	2	20	20.4	102		30 (32)	150 (144)
		Decachlorobiphenyl	2	20	16.0	80		30 (32)	150 (175)
I.BLK-PP072638.D	PIBLK-PP072638.D	Tetrachloro-m-xylene	1	20	16.9	85		70 (60)	130 (140)

( ) = LABORATORY INHOUSE LIMIT

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Surrogate Summary

SDG No.: Q2198

Client: Portal Partners Tri-Venture

Analytical Method: 8082A

Lab Sample ID	Client ID	Parameter	Column	Spike	Result	Rec	Qual	Limits Low	Limits High
I.BLK-PP072638.D	PIBLK-PP072638.D	Decachlorobiphenyl	1	20	16.3	81		70 (60)	130 (140)
		Tetrachloro-m-xylene	2	20	19.3	96		70 (60)	130 (140)
		Decachlorobiphenyl	2	20	20.0	100		70 (60)	130 (140)
I.BLK-PP072651.D	PIBLK-PP072651.D	Tetrachloro-m-xylene	1	20	18.4	92		70 (60)	130 (140)
		Decachlorobiphenyl	1	20	18.7	94		70 (60)	130 (140)
		Tetrachloro-m-xylene	2	20	20.0	100		70 (60)	130 (140)
		Decachlorobiphenyl	2	20	21.8	109		70 (60)	130 (140)
PB168288BS	PB168288BS	Tetrachloro-m-xylene	1	20	20.0	100		30 (32)	150 (144)
		Decachlorobiphenyl	1	20	20.6	103		30 (32)	150 (175)
		Tetrachloro-m-xylene	2	20	20.6	103		30 (32)	150 (144)
		Decachlorobiphenyl	2	20	23.5	118		30 (32)	150 (175)
I.BLK-PP072666.D	PIBLK-PP072666.D	Tetrachloro-m-xylene	1	20	17.8	89		70 (60)	130 (140)
		Decachlorobiphenyl	1	20	19.1	95		70 (60)	130 (140)
		Tetrachloro-m-xylene	2	20	20.2	101		70 (60)	130 (140)
		Decachlorobiphenyl	2	20	21.8	109		70 (60)	130 (140)
I.BLK-PP072702.D	PIBLK-PP072702.D	Tetrachloro-m-xylene	1	20	17.0	85		70 (60)	130 (140)
		Decachlorobiphenyl	1	20	15.7	78		70 (60)	130 (140)
		Tetrachloro-m-xylene	2	20	18.8	94		70 (60)	130 (140)
		Decachlorobiphenyl	2	20	19.9	99		70 (60)	130 (140)
PB168325BL	PB168325BL	Tetrachloro-m-xylene	1	20	20.1	101		30 (30)	150 (173)
		Decachlorobiphenyl	1	20	19.2	96		30 (10)	150 (173)
		Tetrachloro-m-xylene	2	20	23.1	116		30 (30)	150 (173)
		Decachlorobiphenyl	2	20	23.2	116		30 (10)	150 (173)
Q2198-05	B-202-GW01	Tetrachloro-m-xylene	1	20	19.3	97		30 (30)	150 (173)
		Decachlorobiphenyl	1	20	11.3	57		30 (10)	150 (173)
		Tetrachloro-m-xylene	2	20	22.6	113		30 (30)	150 (173)
		Decachlorobiphenyl	2	20	14.7	74		30 (10)	150 (173)
I.BLK-PP072717.D	PIBLK-PP072717.D	Tetrachloro-m-xylene	1	20	17.0	85		70 (60)	130 (140)
		Decachlorobiphenyl	1	20	16.5	82		70 (60)	130 (140)
		Tetrachloro-m-xylene	2	20	19.7	98		70 (60)	130 (140)
		Decachlorobiphenyl	2	20	20.4	102		70 (60)	130 (140)
I.BLK-PP072737.D	PIBLK-PP072737.D	Tetrachloro-m-xylene	1	20	18.0	90		70 (60)	130 (140)
		Decachlorobiphenyl	1	20	18.6	93		70 (60)	130 (140)
		Tetrachloro-m-xylene	2	20	19.9	99		70 (60)	130 (140)
		Decachlorobiphenyl	2	20	20.9	104		70 (60)	130 (140)
PB168325BS	PB168325BS	Tetrachloro-m-xylene	1	20	20.3	101		30 (30)	150 (173)
		Decachlorobiphenyl	1	20	21.1	106		30 (10)	150 (173)
		Tetrachloro-m-xylene	2	20	20.8	104		30 (30)	150 (173)
		Decachlorobiphenyl	2	20	23.4	117		30 (10)	150 (173)
PB168325BSD	PB168325BSD	Tetrachloro-m-xylene	1	20	20.6	103		30 (30)	150 (173)
		Decachlorobiphenyl	1	20	21.3	106		30 (10)	150 (173)

( ) = LABORATORY INHOUSE LIMIT

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Surrogate Summary

SDG No.: Q2198

Client: Portal Partners Tri-Venture

Analytical Method: 8082A

Lab Sample ID	Client ID	Parameter	Column	Spike	Result	Rec	Qual	Limits Low	Limits High
PB168325BSD	PB168325BSD	Tetrachloro-m-xylene	2	20	21.1	105		30 (30)	150 (173)
		Decachlorobiphenyl	2	20	23.4	117		30 (10)	150 (173)
I.BLK-PP072753.D	PIBLK-PP072753.D	Tetrachloro-m-xylene	1	20	18.0	90		70 (60)	130 (140)
		Decachlorobiphenyl	1	20	17.6	88		70 (60)	130 (140)
		Tetrachloro-m-xylene	2	20	19.6	98		70 (60)	130 (140)
		Decachlorobiphenyl	2	20	20.8	104		70 (60)	130 (140)

( ) = LABORATORY INHOUSE LIMIT

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q2198 **Analytical Method:** 8082A

Client: Portal Partners Tri-Venture **DataFile :** PP072631.D

Lab Sample ID:	Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	Limits RPD
Client Sample ID:	**OK-01-060325MS**											
Q2195-01MS (Column 1)	AR1016	176.1	0	107	ug/kg	61				40 (55)	140 (146)	
	AR1260	176.1	0	106	ug/kg	60				40 (54)	140 (119)	
Client Sample ID:	**OK-01-060325MS**											
Q2195-01MS (Column 2)	AR1016	176.1	0	124	ug/kg	70				40 (55)	140 (146)	
	AR1260	176.1	0	115	ug/kg	65				40 (54)	140 (119)	

( ) = LABORATORY INHOUSE LIMIT

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q2198 **Analytical Method:** 8082A

Client: Portal Partners Tri-Venture **DataFile :** PP072632.D

Lab Sample ID:	Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	Limits RPD
Client Sample ID:	**OK-01-060325MSD**											
Q2195-01MSD (Column 1)	AR1016	176.2	0	98.4	ug/kg	56		9		40 (55)	140 (146)	30 (20)
	AR1260	176.2	0	101	ug/kg	57		5		40 (54)	140 (119)	30 (20)
Client Sample ID:	**OK-01-060325MSD**											
Q2195-01MSD (Column 2)	AR1016	176.2	0	121	ug/kg	69		1		40 (55)	140 (146)	30 (20)
	AR1260	176.2	0	112	ug/kg	64		2		40 (54)	140 (119)	30 (20)

( ) = LABORATORY INHOUSE LIMIT

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2198 **Analytical Method:** 8082A

Client: Portal Partners Tri-Venture **Datafile :** PP072653.D

Lab Sample ID	Parameter	Spike	Result	Units	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	Limits RPD
PB168288BS (Column 1)	AR1016	166.6	144	ug/kg	86				40 (71)	140 (120)	
	AR1260	166.6	141	ug/kg	85				40 (65)	140 (130)	
PB168288BS (Column 2)	AR1016	166.6	160	ug/kg	96				40 (71)	140 (120)	
	AR1260	166.6	163	ug/kg	98				40 (65)	140 (130)	

( ) = LABORATORY INHOUSE LIMIT

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2198 **Analytical Method:** 8082A

Client: Portal Partners Tri-Venture **Datafile :** PP072738.D

Lab Sample ID	Parameter	Spike	Result	Units	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB168325BS (Column 1)	AR1016	5	4.50	ug/L	90				40 (77)	140 (107)	
	AR1260	5	4.50	ug/L	90				40 (66)	140 (113)	
PB168325BS (Column 2)	AR1016	5	4.80	ug/L	96				40 (77)	140 (107)	
	AR1260	5	4.90	ug/L	98				40 (66)	140 (113)	

( ) = LABORATORY INHOUSE LIMIT

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Fax : 908 789 8922

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2198 **Analytical Method:** 8082A

Client: Portal Partners Tri-Venture **Datafile :** PP072739.D

Lab Sample ID	Parameter	Spike	Result	Units	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	Limits RPD
PB168325BSD (Column 1)	AR1016	5	4.50	ug/L	90	0			40 (77)	140 (107)	20 (20)
	AR1260	5	4.40	ug/L	88	2			40 (66)	140 (113)	20 (20)
PB168325BSD (Column 2)	AR1016	5	4.80	ug/L	96	0			40 (77)	140 (107)	20 (20)
	AR1260	5	4.80	ug/L	96	2			40 (66)	140 (113)	20 (20)

( ) = LABORATORY INHOUSE LIMIT

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4C

PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB168288BL

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q2198 SAS No.: Q2198 SDG NO.: Q2198

Lab Sample ID: PB168288BL Lab File ID: PP072624.D

Matrix: (soil/water) Solid Extraction: (Type) SOXH

Sulfur Cleanup: (Y/N) N Date Extracted: 06/04/2025

Date Analyzed (1): 06/04/2025 Date Analyzed (2): 06/04/2025

Time Analyzed (1): 16:13 Time Analyzed (2): 16:13

Instrument ID (1): ECD_P Instrument ID (2): ECD_P

GC Column (1): ZB-MR1 ID: 0.32 (mm) GC Column (2): ZB-MR2 ID: 0.32 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED 1	DATE ANALYZED 2
B-207-SB02	Q2198-03	PO111473.D	06/04/2025	06/04/2025
OK-01-060325MS	Q2195-01MS	PP072631.D	06/04/2025	06/04/2025
OK-01-060325MSD	Q2195-01MSD	PP072632.D	06/04/2025	06/04/2025
B-202-SB02	Q2198-01	PP072633.D	06/04/2025	06/04/2025
PB168288BS	PB168288BS	PP072653.D	06/05/2025	06/05/2025

COMMENTS:

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4C

PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB168325BL

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q2198 SAS No.: Q2198 SDG NO.: Q2198

Lab Sample ID: PB168325BL Lab File ID: PP072708.D

Matrix: (soil/water) WATER Extraction: (Type) SEPF

Sulfur Cleanup: (Y/N) N Date Extracted: 06/06/2025

Date Analyzed (1): 06/06/2025 Date Analyzed (2): 06/06/2025

Time Analyzed (1): 19:46 Time Analyzed (2): 19:46

Instrument ID (1): ECD_P Instrument ID (2): ECD_P

GC Column (1): ZB-MR1 ID: 0.32 (mm) GC Column (2): ZB-MR2 ID: 0.32 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED 1	DATE ANALYZED 2
B-202-GW01	Q2198-05	PP072711.D	06/06/2025	06/06/2025
PB168325BS	PB168325BS	PP072738.D	06/09/2025	06/09/2025
PB168325BSD	PB168325BSD	PP072739.D	06/09/2025	06/09/2025

COMMENTS:

QC SAMPLE DATA

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB168288BL	SDG No.:	Q2198
Lab Sample ID:	PB168288BL	Matrix:	SOIL
Analytical Method:	8082A	% Solid:	100 Decanted:
Sample Wt/Vol:	30.02 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP072624.D	1	06/04/25 12:09	06/04/25 16:13	PB168288

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	3.90	U	3.90	17.0	ug/kg
11104-28-2	Aroclor-1221	4.00	U	4.00	17.0	ug/kg
11141-16-5	Aroclor-1232	3.70	U	3.70	17.0	ug/kg
53469-21-9	Aroclor-1242	4.00	U	4.00	17.0	ug/kg
12672-29-6	Aroclor-1248	5.90	U	5.90	17.0	ug/kg
11097-69-1	Aroclor-1254	3.20	U	3.20	17.0	ug/kg
37324-23-5	Aroclor-1262	5.00	U	5.00	17.0	ug/kg
11100-14-4	Aroclor-1268	3.60	U	3.60	17.0	ug/kg
11096-82-5	Aroclor-1260	3.20	U	3.20	17.0	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	20.1		30 (32) - 150 (144)	100%	SPK: 20
2051-24-3	Decachlorobiphenyl	23.1		30 (32) - 150 (175)	115%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB168325BL	SDG No.:	Q2198
Lab Sample ID:	PB168325BL	Matrix:	WATER
Analytical Method:	8082A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP072708.D	1	06/06/25 09:14	06/06/25 19:46	PB168325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	0.097	U	0.097	0.50	ug/L
11104-28-2	Aroclor-1221	0.13	U	0.13	0.50	ug/L
11141-16-5	Aroclor-1232	0.096	U	0.096	0.50	ug/L
53469-21-9	Aroclor-1242	0.12	U	0.12	0.50	ug/L
12672-29-6	Aroclor-1248	0.071	U	0.071	0.50	ug/L
11097-69-1	Aroclor-1254	0.094	U	0.094	0.50	ug/L
37324-23-5	Aroclor-1262	0.14	U	0.14	0.50	ug/L
11100-14-4	Aroclor-1268	0.11	U	0.11	0.50	ug/L
11096-82-5	Aroclor-1260	0.081	U	0.081	0.50	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	23.1		30 (30) - 150 (173)	116%	SPK: 20
2051-24-3	Decachlorobiphenyl	23.2		30 (10) - 150 (173)	116%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	05/14/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	05/14/25
Client Sample ID:	PIBLK-PO111057.D	SDG No.:	Q2198
Lab Sample ID:	I.BLK-PO111057.D	Matrix:	WATER
Analytical Method:	8082A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	5030		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PO111057.D	1		05/14/25	PO051525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	0.097	U	0.097	0.50	ug/L
11104-28-2	Aroclor-1221	0.13	U	0.13	0.50	ug/L
11141-16-5	Aroclor-1232	0.096	U	0.096	0.50	ug/L
53469-21-9	Aroclor-1242	0.12	U	0.12	0.50	ug/L
12672-29-6	Aroclor-1248	0.071	U	0.071	0.50	ug/L
11097-69-1	Aroclor-1254	0.094	U	0.094	0.50	ug/L
11096-82-5	Aroclor-1260	0.081	U	0.081	0.50	ug/L
37324-23-5	Aroclor-1262	0.14	U	0.14	0.50	ug/L
11100-14-4	Aroclor-1268	0.11	U	0.11	0.50	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	15.4		70 (60) - 130 (140)	77%	SPK: 20
2051-24-3	Decachlorobiphenyl	17.5		70 (60) - 130 (140)	87%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	06/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	06/04/25
Client Sample ID:	PIBLK-PO111472.D	SDG No.:	Q2198
Lab Sample ID:	I.BLK-PO111472.D	Matrix:	WATER
Analytical Method:	8082A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	5030		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PO111472.D	1		06/04/25	po060425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	0.097	U	0.097	0.50	ug/L
11104-28-2	Aroclor-1221	0.13	U	0.13	0.50	ug/L
11141-16-5	Aroclor-1232	0.096	U	0.096	0.50	ug/L
53469-21-9	Aroclor-1242	0.12	U	0.12	0.50	ug/L
12672-29-6	Aroclor-1248	0.071	U	0.071	0.50	ug/L
11097-69-1	Aroclor-1254	0.094	U	0.094	0.50	ug/L
11096-82-5	Aroclor-1260	0.081	U	0.081	0.50	ug/L
37324-23-5	Aroclor-1262	0.14	U	0.14	0.50	ug/L
11100-14-4	Aroclor-1268	0.11	U	0.11	0.50	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	18.1		70 (60) - 130 (140)	91%	SPK: 20
2051-24-3	Decachlorobiphenyl	17.8		70 (60) - 130 (140)	89%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
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S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	06/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	06/04/25
Client Sample ID:	PIBLK-PO111481.D	SDG No.:	Q2198
Lab Sample ID:	I.BLK-PO111481.D	Matrix:	WATER
Analytical Method:	8082A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	5030		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PO111481.D	1		06/04/25	po060425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	0.097	U	0.097	0.50	ug/L
11104-28-2	Aroclor-1221	0.13	U	0.13	0.50	ug/L
11141-16-5	Aroclor-1232	0.096	U	0.096	0.50	ug/L
53469-21-9	Aroclor-1242	0.12	U	0.12	0.50	ug/L
12672-29-6	Aroclor-1248	0.071	U	0.071	0.50	ug/L
11097-69-1	Aroclor-1254	0.094	U	0.094	0.50	ug/L
11096-82-5	Aroclor-1260	0.081	U	0.081	0.50	ug/L
37324-23-5	Aroclor-1262	0.14	U	0.14	0.50	ug/L
11100-14-4	Aroclor-1268	0.11	U	0.11	0.50	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	18.1		70 (60) - 130 (140)	90%	SPK: 20
2051-24-3	Decachlorobiphenyl	17.8		70 (60) - 130 (140)	89%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	05/19/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	05/19/25
Client Sample ID:	PIBLK-PP072163.D	SDG No.:	Q2198
Lab Sample ID:	I.BLK-PP072163.D	Matrix:	WATER
Analytical Method:	8082A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	5030		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP072163.D	1		05/19/25	PP051925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	0.097	U	0.097	0.50	ug/L
11104-28-2	Aroclor-1221	0.13	U	0.13	0.50	ug/L
11141-16-5	Aroclor-1232	0.096	U	0.096	0.50	ug/L
53469-21-9	Aroclor-1242	0.12	U	0.12	0.50	ug/L
12672-29-6	Aroclor-1248	0.071	U	0.071	0.50	ug/L
11097-69-1	Aroclor-1254	0.094	U	0.094	0.50	ug/L
11096-82-5	Aroclor-1260	0.081	U	0.081	0.50	ug/L
37324-23-5	Aroclor-1262	0.14	U	0.14	0.50	ug/L
11100-14-4	Aroclor-1268	0.11	U	0.11	0.50	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	16.3		70 (60) - 130 (140)	82%	SPK: 20
2051-24-3	Decachlorobiphenyl	16.7		70 (60) - 130 (140)	84%	SPK: 20

Comments:

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LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
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P = Indicates >25% difference for detected concentrations between the two GC columns
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M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	06/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	06/04/25
Client Sample ID:	PIBLK-PP072623.D	SDG No.:	Q2198
Lab Sample ID:	I.BLK-PP072623.D	Matrix:	WATER
Analytical Method:	8082A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	5030		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP072623.D	1		06/04/25	PP060425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	0.097	U	0.097	0.50	ug/L
11104-28-2	Aroclor-1221	0.13	U	0.13	0.50	ug/L
11141-16-5	Aroclor-1232	0.096	U	0.096	0.50	ug/L
53469-21-9	Aroclor-1242	0.12	U	0.12	0.50	ug/L
12672-29-6	Aroclor-1248	0.071	U	0.071	0.50	ug/L
11097-69-1	Aroclor-1254	0.094	U	0.094	0.50	ug/L
11096-82-5	Aroclor-1260	0.081	U	0.081	0.50	ug/L
37324-23-5	Aroclor-1262	0.14	U	0.14	0.50	ug/L
11100-14-4	Aroclor-1268	0.11	U	0.11	0.50	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	17.3		70 (60) - 130 (140)	87%	SPK: 20
2051-24-3	Decachlorobiphenyl	18.9		70 (60) - 130 (140)	94%	SPK: 20

Comments:

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LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
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P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	06/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	06/04/25
Client Sample ID:	PIBLK-PP072638.D	SDG No.:	Q2198
Lab Sample ID:	I.BLK-PP072638.D	Matrix:	WATER
Analytical Method:	8082A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	5030		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP072638.D	1		06/04/25	pp060425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	0.097	U	0.097	0.50	ug/L
11104-28-2	Aroclor-1221	0.13	U	0.13	0.50	ug/L
11141-16-5	Aroclor-1232	0.096	U	0.096	0.50	ug/L
53469-21-9	Aroclor-1242	0.12	U	0.12	0.50	ug/L
12672-29-6	Aroclor-1248	0.071	U	0.071	0.50	ug/L
11097-69-1	Aroclor-1254	0.094	U	0.094	0.50	ug/L
11096-82-5	Aroclor-1260	0.081	U	0.081	0.50	ug/L
37324-23-5	Aroclor-1262	0.14	U	0.14	0.50	ug/L
11100-14-4	Aroclor-1268	0.11	U	0.11	0.50	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	16.9		70 (60) - 130 (140)	85%	SPK: 20
2051-24-3	Decachlorobiphenyl	16.3		70 (60) - 130 (140)	81%	SPK: 20

Comments:

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LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
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D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	06/05/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	06/05/25
Client Sample ID:	PIBLK-PP072651.D	SDG No.:	Q2198
Lab Sample ID:	I.BLK-PP072651.D	Matrix:	WATER
Analytical Method:	8082A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	5030		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP072651.D	1		06/05/25	PP060525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	0.097	U	0.097	0.50	ug/L
11104-28-2	Aroclor-1221	0.13	U	0.13	0.50	ug/L
11141-16-5	Aroclor-1232	0.096	U	0.096	0.50	ug/L
53469-21-9	Aroclor-1242	0.12	U	0.12	0.50	ug/L
12672-29-6	Aroclor-1248	0.071	U	0.071	0.50	ug/L
11097-69-1	Aroclor-1254	0.094	U	0.094	0.50	ug/L
11096-82-5	Aroclor-1260	0.081	U	0.081	0.50	ug/L
37324-23-5	Aroclor-1262	0.14	U	0.14	0.50	ug/L
11100-14-4	Aroclor-1268	0.11	U	0.11	0.50	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	18.4		70 (60) - 130 (140)	92%	SPK: 20
2051-24-3	Decachlorobiphenyl	18.7		70 (60) - 130 (140)	94%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	06/05/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	06/05/25
Client Sample ID:	PIBLK-PP072666.D	SDG No.:	Q2198
Lab Sample ID:	I.BLK-PP072666.D	Matrix:	WATER
Analytical Method:	8082A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	5030		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP072666.D	1		06/05/25	PP060525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	0.097	U	0.097	0.50	ug/L
11104-28-2	Aroclor-1221	0.13	U	0.13	0.50	ug/L
11141-16-5	Aroclor-1232	0.096	U	0.096	0.50	ug/L
53469-21-9	Aroclor-1242	0.12	U	0.12	0.50	ug/L
12672-29-6	Aroclor-1248	0.071	U	0.071	0.50	ug/L
11097-69-1	Aroclor-1254	0.094	U	0.094	0.50	ug/L
11096-82-5	Aroclor-1260	0.081	U	0.081	0.50	ug/L
37324-23-5	Aroclor-1262	0.14	U	0.14	0.50	ug/L
11100-14-4	Aroclor-1268	0.11	U	0.11	0.50	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	17.8		70 (60) - 130 (140)	89%	SPK: 20
2051-24-3	Decachlorobiphenyl	19.1		70 (60) - 130 (140)	95%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	06/06/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	06/06/25
Client Sample ID:	PIBLK-PP072702.D	SDG No.:	Q2198
Lab Sample ID:	I.BLK-PP072702.D	Matrix:	WATER
Analytical Method:	8082A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	5030		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP072702.D	1		06/06/25	pp060625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	0.097	U	0.097	0.50	ug/L
11104-28-2	Aroclor-1221	0.13	U	0.13	0.50	ug/L
11141-16-5	Aroclor-1232	0.096	U	0.096	0.50	ug/L
53469-21-9	Aroclor-1242	0.12	U	0.12	0.50	ug/L
12672-29-6	Aroclor-1248	0.071	U	0.071	0.50	ug/L
11097-69-1	Aroclor-1254	0.094	U	0.094	0.50	ug/L
11096-82-5	Aroclor-1260	0.081	U	0.081	0.50	ug/L
37324-23-5	Aroclor-1262	0.14	U	0.14	0.50	ug/L
11100-14-4	Aroclor-1268	0.11	U	0.11	0.50	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	17.0		70 (60) - 130 (140)	85%	SPK: 20
2051-24-3	Decachlorobiphenyl	15.7		70 (60) - 130 (140)	78%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	06/06/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	06/06/25
Client Sample ID:	PIBLK-PP072717.D	SDG No.:	Q2198
Lab Sample ID:	I.BLK-PP072717.D	Matrix:	WATER
Analytical Method:	8082A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	5030		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP072717.D	1		06/06/25	pp060625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	0.097	U	0.097	0.50	ug/L
11104-28-2	Aroclor-1221	0.13	U	0.13	0.50	ug/L
11141-16-5	Aroclor-1232	0.096	U	0.096	0.50	ug/L
53469-21-9	Aroclor-1242	0.12	U	0.12	0.50	ug/L
12672-29-6	Aroclor-1248	0.071	U	0.071	0.50	ug/L
11097-69-1	Aroclor-1254	0.094	U	0.094	0.50	ug/L
11096-82-5	Aroclor-1260	0.081	U	0.081	0.50	ug/L
37324-23-5	Aroclor-1262	0.14	U	0.14	0.50	ug/L
11100-14-4	Aroclor-1268	0.11	U	0.11	0.50	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	17.0		70 (60) - 130 (140)	85%	SPK: 20
2051-24-3	Decachlorobiphenyl	16.5		70 (60) - 130 (140)	82%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	06/09/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	06/09/25
Client Sample ID:	PIBLK-PP072737.D	SDG No.:	Q2198
Lab Sample ID:	I.BLK-PP072737.D	Matrix:	WATER
Analytical Method:	8082A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	5030		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP072737.D	1		06/09/25	PP060925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	0.097	U	0.097	0.50	ug/L
11104-28-2	Aroclor-1221	0.13	U	0.13	0.50	ug/L
11141-16-5	Aroclor-1232	0.096	U	0.096	0.50	ug/L
53469-21-9	Aroclor-1242	0.12	U	0.12	0.50	ug/L
12672-29-6	Aroclor-1248	0.071	U	0.071	0.50	ug/L
11097-69-1	Aroclor-1254	0.094	U	0.094	0.50	ug/L
11096-82-5	Aroclor-1260	0.081	U	0.081	0.50	ug/L
37324-23-5	Aroclor-1262	0.14	U	0.14	0.50	ug/L
11100-14-4	Aroclor-1268	0.11	U	0.11	0.50	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	18.0		70 (60) - 130 (140)	90%	SPK: 20
2051-24-3	Decachlorobiphenyl	18.6		70 (60) - 130 (140)	93%	SPK: 20

Comments:

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LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
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() = Laboratory InHouse Limit

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	06/09/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	06/09/25
Client Sample ID:	PIBLK-PP072753.D	SDG No.:	Q2198
Lab Sample ID:	I.BLK-PP072753.D	Matrix:	WATER
Analytical Method:	8082A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	5030		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP072753.D	1		06/09/25	pp060925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	0.097	U	0.097	0.50	ug/L
11104-28-2	Aroclor-1221	0.13	U	0.13	0.50	ug/L
11141-16-5	Aroclor-1232	0.096	U	0.096	0.50	ug/L
53469-21-9	Aroclor-1242	0.12	U	0.12	0.50	ug/L
12672-29-6	Aroclor-1248	0.071	U	0.071	0.50	ug/L
11097-69-1	Aroclor-1254	0.094	U	0.094	0.50	ug/L
11096-82-5	Aroclor-1260	0.081	U	0.081	0.50	ug/L
37324-23-5	Aroclor-1262	0.14	U	0.14	0.50	ug/L
11100-14-4	Aroclor-1268	0.11	U	0.11	0.50	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	18.0		70 (60) - 130 (140)	90%	SPK: 20
2051-24-3	Decachlorobiphenyl	17.6		70 (60) - 130 (140)	88%	SPK: 20

Comments:

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LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
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P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
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* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB168288BS	SDG No.:	Q2198
Lab Sample ID:	PB168288BS	Matrix:	SOIL
Analytical Method:	8082A	% Solid:	100 Decanted:
Sample Wt/Vol:	30.01 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP072653.D	1	06/04/25 12:09	06/05/25 10:35	PB168288

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	160		3.90	17.0	ug/kg
11104-28-2	Aroclor-1221	4.00	U	4.00	17.0	ug/kg
11141-16-5	Aroclor-1232	3.70	U	3.70	17.0	ug/kg
53469-21-9	Aroclor-1242	4.00	U	4.00	17.0	ug/kg
12672-29-6	Aroclor-1248	5.90	U	5.90	17.0	ug/kg
11097-69-1	Aroclor-1254	3.20	U	3.20	17.0	ug/kg
37324-23-5	Aroclor-1262	5.00	U	5.00	17.0	ug/kg
11100-14-4	Aroclor-1268	3.60	U	3.60	17.0	ug/kg
11096-82-5	Aroclor-1260	163		3.20	17.0	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	20.6		30 (32) - 150 (144)	103%	SPK: 20
2051-24-3	Decachlorobiphenyl	23.5		30 (32) - 150 (175)	118%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
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S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB168325BS	SDG No.:	Q2198
Lab Sample ID:	PB168325BS	Matrix:	WATER
Analytical Method:	8082A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP072738.D	1	06/06/25 09:14	06/09/25 11:17	PB168325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	4.80		0.097	0.50	ug/L
11104-28-2	Aroclor-1221	0.13	U	0.13	0.50	ug/L
11141-16-5	Aroclor-1232	0.096	U	0.096	0.50	ug/L
53469-21-9	Aroclor-1242	0.12	U	0.12	0.50	ug/L
12672-29-6	Aroclor-1248	0.071	U	0.071	0.50	ug/L
11097-69-1	Aroclor-1254	0.094	U	0.094	0.50	ug/L
37324-23-5	Aroclor-1262	0.14	U	0.14	0.50	ug/L
11100-14-4	Aroclor-1268	0.11	U	0.11	0.50	ug/L
11096-82-5	Aroclor-1260	4.90		0.081	0.50	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	20.8		30 (30) - 150 (173)	104%	SPK: 20
2051-24-3	Decachlorobiphenyl	23.4		30 (10) - 150 (173)	117%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB168325BSD	SDG No.:	Q2198
Lab Sample ID:	PB168325BSD	Matrix:	WATER
Analytical Method:	8082A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP072739.D	1	06/06/25 09:14	06/09/25 11:34	PB168325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	4.80		0.097	0.50	ug/L
11104-28-2	Aroclor-1221	0.13	U	0.13	0.50	ug/L
11141-16-5	Aroclor-1232	0.096	U	0.096	0.50	ug/L
53469-21-9	Aroclor-1242	0.12	U	0.12	0.50	ug/L
12672-29-6	Aroclor-1248	0.071	U	0.071	0.50	ug/L
11097-69-1	Aroclor-1254	0.094	U	0.094	0.50	ug/L
37324-23-5	Aroclor-1262	0.14	U	0.14	0.50	ug/L
11100-14-4	Aroclor-1268	0.11	U	0.11	0.50	ug/L
11096-82-5	Aroclor-1260	4.80		0.081	0.50	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	21.1		30 (30) - 150 (173)	105%	SPK: 20
2051-24-3	Decachlorobiphenyl	23.4		30 (10) - 150 (173)	117%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
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D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	06/03/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	06/03/25
Client Sample ID:	OK-01-060325MS	SDG No.:	Q2198
Lab Sample ID:	Q2195-01MS	Matrix:	SOIL
Analytical Method:	8082A	% Solid:	94.4 Decanted:
Sample Wt/Vol:	30.08 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP072631.D	1	06/04/25 12:09	06/04/25 18:07	PB168288

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	124		4.20	18.0	ug/kg
11104-28-2	Aroclor-1221	4.30	U	4.30	18.0	ug/kg
11141-16-5	Aroclor-1232	3.90	U	3.90	18.0	ug/kg
53469-21-9	Aroclor-1242	4.20	U	4.20	18.0	ug/kg
12672-29-6	Aroclor-1248	6.30	U	6.30	18.0	ug/kg
11097-69-1	Aroclor-1254	3.40	U	3.40	18.0	ug/kg
37324-23-5	Aroclor-1262	5.30	U	5.30	18.0	ug/kg
11100-14-4	Aroclor-1268	3.80	U	3.80	18.0	ug/kg
11096-82-5	Aroclor-1260	115		3.40	18.0	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	19.6		30 (32) - 150 (144)	98%	SPK: 20
2051-24-3	Decachlorobiphenyl	19.3		30 (32) - 150 (175)	97%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
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S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	06/03/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	06/03/25
Client Sample ID:	OK-01-060325MSD	SDG No.:	Q2198
Lab Sample ID:	Q2195-01MSD	Matrix:	SOIL
Analytical Method:	8082A	% Solid:	94.4 Decanted:
Sample Wt/Vol:	30.06 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP072632.D	1	06/04/25 12:09	06/04/25 18:23	PB168288

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	121		4.20	18.0	ug/kg
11104-28-2	Aroclor-1221	4.30	U	4.30	18.0	ug/kg
11141-16-5	Aroclor-1232	3.90	U	3.90	18.0	ug/kg
53469-21-9	Aroclor-1242	4.20	U	4.20	18.0	ug/kg
12672-29-6	Aroclor-1248	6.30	U	6.30	18.0	ug/kg
11097-69-1	Aroclor-1254	3.40	U	3.40	18.0	ug/kg
37324-23-5	Aroclor-1262	5.30	U	5.30	18.0	ug/kg
11100-14-4	Aroclor-1268	3.80	U	3.80	18.0	ug/kg
11096-82-5	Aroclor-1260	112		3.40	18.0	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	19.8		30 (32) - 150 (144)	99%	SPK: 20
2051-24-3	Decachlorobiphenyl	18.0		30 (32) - 150 (175)	90%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
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() = Laboratory InHouse Limit

CALIBRATION SUMMARY

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

RETENTION TIMES OF INITIAL CALIBRATION

Contract: PORT06

Lab Code: CHEM **Case No.:** Q2198 **SAS No.:** Q2198 **SDG NO.:** Q2198

Instrument ID: ECD_O **Calibration Date(s):** 05/14/2025 05/15/2025

Calibration Times: 17:19 01:31

GC Column: ZB-MR1 ID: 0.32 (mm)

LAB FILE ID: RT 1000 = PO111058.D RT 750 = PO111059.D

RT 500 = PO111060.D RT 250 = PO111061.D RT 050 = PO111062.D

COMPOUND		RT 1000	RT 750	RT 500	RT 250	RT 050	MEAN RT	RT WINDOW FROM	RT WINDOW TO
Aroclor-1016-1	(1)	4.77	4.77	4.77	4.77	4.77	4.77	4.67	4.87
Aroclor-1016-2	(2)	4.79	4.79	4.79	4.79	4.79	4.79	4.69	4.89
Aroclor-1016-3	(3)	4.85	4.85	4.85	4.85	4.85	4.85	4.75	4.95
Aroclor-1016-4	(4)	4.97	4.97	4.97	4.97	4.97	4.97	4.87	5.07
Aroclor-1016-5	(5)	5.23	5.23	5.23	5.23	5.23	5.23	5.13	5.33
Aroclor-1260-1	(1)	6.27	6.27	6.27	6.27	6.27	6.27	6.17	6.37
Aroclor-1260-2	(2)	6.46	6.46	6.46	6.46	6.45	6.46	6.36	6.56
Aroclor-1260-3	(3)	6.82	6.82	6.82	6.82	6.82	6.82	6.72	6.92
Aroclor-1260-4	(4)	7.08	7.08	7.08	7.08	7.08	7.08	6.98	7.18
Aroclor-1260-5	(5)	7.33	7.33	7.33	7.32	7.32	7.33	7.23	7.43
Decachlorobiphenyl		8.73	8.73	8.72	8.72	8.72	8.72	8.62	8.82
Tetrachloro-m-xylene		3.68	3.68	3.68	3.68	3.68	3.68	3.58	3.78
Aroclor-1242-1	(1)	4.77	4.77	4.77	4.77	4.77	4.77	4.67	4.87
Aroclor-1242-2	(2)	4.79	4.79	4.79	4.79	4.79	4.79	4.69	4.89
Aroclor-1242-3	(3)	4.85	4.85	4.85	4.85	4.85	4.85	4.75	4.95
Aroclor-1242-4	(4)	4.97	4.97	4.97	4.97	4.97	4.97	4.87	5.07
Aroclor-1242-5	(5)	5.62	5.62	5.62	5.62	5.62	5.62	5.52	5.72
Decachlorobiphenyl		8.72	8.72	8.73	8.72	8.72	8.72	8.62	8.82
Tetrachloro-m-xylene		3.68	3.68	3.68	3.68	3.68	3.68	3.58	3.78
Aroclor-1248-1	(1)	4.77	4.77	4.77	4.77	4.77	4.77	4.67	4.87
Aroclor-1248-2	(2)	5.01	5.01	5.01	5.01	5.01	5.01	4.91	5.11
Aroclor-1248-3	(3)	5.23	5.23	5.23	5.22	5.23	5.23	5.13	5.33
Aroclor-1248-4	(4)	5.58	5.58	5.58	5.58	5.58	5.58	5.48	5.68
Aroclor-1248-5	(5)	5.62	5.62	5.62	5.62	5.62	5.62	5.52	5.72
Decachlorobiphenyl		8.72	8.72	8.72	8.72	8.72	8.72	8.62	8.82
Tetrachloro-m-xylene		3.68	3.68	3.68	3.68	3.68	3.68	3.58	3.78
Aroclor-1254-1	(1)	5.58	5.58	5.58	5.58	5.58	5.58	5.48	5.68
Aroclor-1254-2	(2)	5.73	5.73	5.73	5.73	5.73	5.73	5.63	5.83
Aroclor-1254-3	(3)	6.13	6.13	6.13	6.13	6.13	6.13	6.03	6.23
Aroclor-1254-4	(4)	6.36	6.36	6.36	6.36	6.36	6.36	6.26	6.46
Aroclor-1254-5	(5)	6.78	6.78	6.78	6.78	6.78	6.78	6.68	6.88
Decachlorobiphenyl		8.73	8.73	8.72	8.72	8.72	8.72	8.62	8.82
Tetrachloro-m-xylene		3.68	3.68	3.68	3.68	3.68	3.68	3.58	3.78
Aroclor-1268-1	(1)	7.61	7.61	7.61	7.61	7.61	7.61	7.51	7.71
Aroclor-1268-2	(2)	7.67	7.67	7.67	7.67	7.67	7.67	7.57	7.77
Aroclor-1268-3	(3)	7.88	7.88	7.88	7.88	7.88	7.88	7.78	7.98
Aroclor-1268-4	(4)	8.17	8.17	8.17	8.17	8.17	8.17	8.07	8.27
Aroclor-1268-5	(5)	8.46	8.47	8.47	8.46	8.46	8.46	8.36	8.56

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RETENTION TIMES OF INITIAL CALIBRATION

Decachlorobiphenyl	8.72	8.72	8.73	8.72	8.72	8.72	8.62	8.82
Tetrachloro-m-xylene	3.68	3.68	3.68	3.68	3.68	3.68	3.58	3.78

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RETENTION TIMES OF INITIAL CALIBRATION

Contract: PORT06

Lab Code: CHEM **Case No.:** Q2198 **SAS No.:** Q2198 **SDG NO.:** Q2198

Instrument ID: ECD_O **Calibration Date(s):** 05/14/2025 05/15/2025

Calibration Times: 17:19 01:31

GC Column: ZB-MR2 ID: 0.32 (mm)

LAB FILE ID: RT 1000 = PO111058.D RT 750 = PO111059.D

RT 500 = PO111060.D RT 250 = PO111061.D RT 050 = PO111062.D

COMPOUND		RT 1000	RT 750	RT 500	RT 250	RT 050	MEAN RT	RT WINDOW FROM	RT WINDOW TO
Aroclor-1016-1	(1)	4.76	4.76	4.76	4.76	4.76	4.76	4.66	4.86
Aroclor-1016-2	(2)	4.78	4.78	4.78	4.78	4.78	4.78	4.68	4.88
Aroclor-1016-3	(3)	4.95	4.95	4.95	4.95	4.95	4.95	4.85	5.05
Aroclor-1016-4	(4)	5.00	5.00	4.99	4.99	5.00	5.00	4.90	5.10
Aroclor-1016-5	(5)	5.21	5.21	5.21	5.21	5.21	5.21	5.11	5.31
Aroclor-1260-1	(1)	6.24	6.24	6.24	6.24	6.24	6.24	6.14	6.34
Aroclor-1260-2	(2)	6.43	6.43	6.43	6.43	6.43	6.43	6.33	6.53
Aroclor-1260-3	(3)	6.58	6.58	6.58	6.58	6.58	6.58	6.48	6.68
Aroclor-1260-4	(4)	7.05	7.05	7.05	7.05	7.05	7.05	6.95	7.15
Aroclor-1260-5	(5)	7.29	7.29	7.29	7.29	7.29	7.29	7.19	7.39
Decachlorobiphenyl		8.67	8.67	8.67	8.68	8.67	8.67	8.57	8.77
Tetrachloro-m-xylene		3.68	3.68	3.68	3.68	3.68	3.68	3.58	3.78
Aroclor-1242-1	(1)	4.76	4.76	4.76	4.76	4.76	4.76	4.66	4.86
Aroclor-1242-2	(2)	4.78	4.78	4.78	4.78	4.78	4.78	4.68	4.88
Aroclor-1242-3	(3)	4.95	4.95	4.95	4.95	4.95	4.95	4.85	5.05
Aroclor-1242-4	(4)	5.04	5.04	5.04	5.04	5.04	5.04	4.94	5.14
Aroclor-1242-5	(5)	5.56	5.56	5.56	5.56	5.56	5.56	5.46	5.66
Decachlorobiphenyl		8.67	8.67	8.67	8.67	8.67	8.67	8.57	8.77
Tetrachloro-m-xylene		3.68	3.68	3.68	3.68	3.68	3.68	3.58	3.78
Aroclor-1248-1	(1)	4.76	4.76	4.76	4.77	4.76	4.76	4.66	4.86
Aroclor-1248-2	(2)	5.00	5.00	5.00	5.01	5.00	5.00	4.90	5.10
Aroclor-1248-3	(3)	5.04	5.04	5.04	5.05	5.04	5.04	4.94	5.14
Aroclor-1248-4	(4)	5.21	5.21	5.21	5.22	5.21	5.21	5.11	5.31
Aroclor-1248-5	(5)	5.60	5.60	5.60	5.61	5.60	5.60	5.50	5.70
Decachlorobiphenyl		8.67	8.67	8.68	8.69	8.67	8.68	8.58	8.78
Tetrachloro-m-xylene		3.68	3.68	3.68	3.69	3.68	3.68	3.58	3.78
Aroclor-1254-1	(1)	5.56	5.56	5.56	5.56	5.56	5.56	5.46	5.66
Aroclor-1254-2	(2)	5.71	5.71	5.71	5.71	5.71	5.71	5.61	5.81
Aroclor-1254-3	(3)	6.11	6.11	6.11	6.11	6.11	6.11	6.01	6.21
Aroclor-1254-4	(4)	6.34	6.34	6.34	6.34	6.34	6.34	6.24	6.44
Aroclor-1254-5	(5)	6.75	6.75	6.75	6.75	6.75	6.75	6.65	6.85
Decachlorobiphenyl		8.67	8.67	8.67	8.67	8.67	8.67	8.57	8.77
Tetrachloro-m-xylene		3.68	3.68	3.68	3.68	3.68	3.68	3.58	3.78
Aroclor-1268-1	(1)	7.57	7.57	7.57	7.57	7.57	7.57	7.47	7.67
Aroclor-1268-2	(2)	7.64	7.64	7.64	7.64	7.64	7.64	7.54	7.74
Aroclor-1268-3	(3)	7.84	7.84	7.84	7.84	7.84	7.84	7.74	7.94
Aroclor-1268-4	(4)	8.13	8.13	8.13	8.13	8.13	8.13	8.03	8.23
Aroclor-1268-5	(5)	8.42	8.42	8.42	8.42	8.42	8.42	8.32	8.52

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RETENTION TIMES OF INITIAL CALIBRATION

Decachlorobiphenyl	8.67	8.67	8.67	8.67	8.67	8.67	8.57	8.77
Tetrachloro-m-xylene	3.68	3.68	3.68	3.68	3.68	3.68	3.58	3.78

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CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: PORT06

Lab Code: CHEM **Case No.:** Q2198 **SAS No.:** Q2198 **SDG NO.:** Q2198

Instrument ID: ECD_O **Calibration Date(s):** 05/14/2025 05/15/2025

Calibration Times: 17:19 01:31

GC Column: ZB-MR1 **ID:** 0.32 (mm)

LAB FILE ID: **CF 1000 =** PO111058.D **CF 750 =** PO111059.D

CF 500 = PO111060.D **CF 250 =** PO111061.D **CF 050 =** PO111062.D

COMPOUND		CF 1000	CF 750	CF 500	CF 250	CF 050	CF	% RSD
Aroclor-1016-1	(1)	205952128	213833112	226414102	241684928	237394280	225055710	7
Aroclor-1016-2	(2)	293931044	310127113	321220528	340419712	328971000	318933879	6
Aroclor-1016-3	(3)	200116672	210641735	220217832	233629012	221015000	217124050	6
Aroclor-1016-4	(4)	160298181	168708089	176290662	187854588	177589060	174148116	6
Aroclor-1016-5	(5)	161898024	175820952	178167232	187226608	176844020	175991367	5
Aroclor-1260-1	(1)	277561674	293756041	305741896	331877740	315901980	304967866	7
Aroclor-1260-2	(2)	349775279	367746601	383860622	411536992	401831460	382950191	7
Aroclor-1260-3	(3)	317018248	333963835	348833732	373392584	369733400	348588360	7
Aroclor-1260-4	(4)	251785051	267674384	282392668	305806136	292149520	279961552	8
Aroclor-1260-5	(5)	680936092	706872008	727490352	760116820	724090440	719901142	4
Decachlorobiphenyl		4789049460	4988917347	5187039280	5515117840	5334237200	5162872225	6
Tetrachloro-m-xylene		5665666390	5873534533	6010307880	6167763840	5698750600	5883204649	4
Aroclor-1242-1	(1)	176697919	185695675	196416184	207079416	190109540	191199747	6
Aroclor-1242-2	(2)	257720398	267748761	279433570	293144628	262025820	272014635	5
Aroclor-1242-3	(3)	175187474	182923969	192610042	201232700	177980140	185986865	6
Aroclor-1242-4	(4)	140203851	146287348	153093646	159943472	139472860	147800235	6
Aroclor-1242-5	(5)	145186142	152022244	159321518	169027516	152152160	155541916	6
Decachlorobiphenyl		4774382260	4985278507	5225823760	5476782920	5013508400	5095155169	5
Tetrachloro-m-xylene		5680960800	5831614707	6040672820	6174416800	5348804000	5815293825	6
Aroclor-1248-1	(1)	138162515	145942143	153069466	163443424	165211980	153165906	8
Aroclor-1248-2	(2)	182760569	190399631	201027290	214399212	214001160	200517572	7
Aroclor-1248-3	(3)	227450486	238283761	250971210	267719672	295599780	256004982	10
Aroclor-1248-4	(4)	324783137	336810133	356284496	381846900	411181480	362181229	10
Aroclor-1248-5	(5)	233936098	243272008	257408728	275769428	299891040	262055460	10
Decachlorobiphenyl		4861959910	5031694707	5278313240	5604075320	5730172600	5301243155	7
Tetrachloro-m-xylene		5864549650	6045437613	6209272300	6477502560	6275643200	6174481065	4
Aroclor-1254-1	(1)	338668376	359337472	379562628	402119132	418187300	379574982	8
Aroclor-1254-2	(2)	291859728	310115756	327944084	347727744	356229960	326775454	8
Aroclor-1254-3	(3)	475332844	499809000	523764968	549245752	582561520	526142817	8
Aroclor-1254-4	(4)	302105681	318736953	335883014	351987900	371678540	336078418	8
Aroclor-1254-5	(5)	429218631	452008725	475302254	500931908	514812140	474454732	7
Decachlorobiphenyl		4923933440	5141137400	5443620080	5700682920	5862774600	5414429688	7
Tetrachloro-m-xylene		5948877150	6190104627	6408412200	6583454240	6338928400	6293955323	4
Aroclor-1268-1	(1)	930869745	936595251	978341018	1015935428	986319920	969612272	4

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CALIBRATION FACTOR OF INITIAL CALIBRATION

Aroclor-1268-2	(2)	856384474	860524951	901691384	934576100	909379560	892511294	4
Aroclor-1268-3	(3)	718671507	725558572	764699306	799960100	785246420	758827181	5
Aroclor-1268-4	(4)	311213814	313193287	331181486	347305704	329997080	326578274	5
Aroclor-1268-5	(5)	2117705977	2107339941	2194587578	2235031552	2137458100	2158424630	3
Decachlorobiphenyl		8888535700	9012836760	9503909100	9956674120	9729229000	9418236936	5
Tetrachloro-m-xylene		6171599970	6168104493	6441282720	6673989440	6170217200	6325038765	4

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CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: PORT06

Lab Code: CHEM **Case No.:** Q2198 **SAS No.:** Q2198 **SDG NO.:** Q2198

Instrument ID: ECD_O **Calibration Date(s):** 05/14/2025 05/15/2025

Calibration Times: 17:19 01:31

GC Column: ZB-MR2 **ID:** 0.32 (mm)

LAB FILE ID: **CF 1000 =** PO111058.D **CF 750 =** PO111059.D

CF 500 = PO111060.D **CF 250 =** PO111061.D **CF 050 =** PO111062.D

COMPOUND		CF 1000	CF 750	CF 500	CF 250	CF 050	CF	% RSD
Aroclor-1016-1	(1)	175951340	184131151	190391494	201135208	203027340	190927307	6
Aroclor-1016-2	(2)	259304006	268965180	279695444	293662868	283996940	277124888	5
Aroclor-1016-3	(3)	136562816	142759844	148101780	155422472	147528240	146075030	5
Aroclor-1016-4	(4)	108537077	112835540	120886250	129636068	128548860	120088759	8
Aroclor-1016-5	(5)	141286439	151385859	154206636	161907480	163215520	154400387	6
Aroclor-1260-1	(1)	230380518	239225432	248869338	264781264	266186040	249888518	6
Aroclor-1260-2	(2)	272772980	284661173	294194664	310691584	309118120	294287704	5
Aroclor-1260-3	(3)	260160385	271476124	281551496	303268832	317136960	286718759	8
Aroclor-1260-4	(4)	184546577	192670083	200645580	215256196	210698140	200763315	6
Aroclor-1260-5	(5)	441090120	451615468	461646416	479352764	464333260	459607606	3
Decachlorobiphenyl		1699216120	1787921307	1869222220	1982547480	1911821600	1850145745	6
Tetrachloro-m-xylene		5406429520	5548905467	5601909540	5641328400	5058606000	5451435785	4
Aroclor-1242-1	(1)	150759764	157292616	165241112	172974524	159265900	161106783	5
Aroclor-1242-2	(2)	223621907	231686419	240612100	250441092	226668900	234606084	5
Aroclor-1242-3	(3)	118098683	122379071	128101210	133446692	116067680	123618667	6
Aroclor-1242-4	(4)	114724574	119985329	127001834	134027396	122337120	123615251	6
Aroclor-1242-5	(5)	142391198	148226844	155505330	163277824	150532140	151986667	5
Decachlorobiphenyl		1649752350	1732528187	1806674400	1933059040	1771454800	1778693755	6
Tetrachloro-m-xylene		5396035140	5504454880	5603860600	5606837360	4728358600	5367909316	7
Aroclor-1248-1	(1)	116677575	122377953	128716756	138512244	142355880	129728082	8
Aroclor-1248-2	(2)	159784658	166591041	175162942	187618608	190301260	175891702	7
Aroclor-1248-3	(3)	169685896	176680541	185649606	199757956	206297360	187614272	8
Aroclor-1248-4	(4)	198935902	206440528	216987222	226820008	250016460	219840024	9
Aroclor-1248-5	(5)	198293592	205844156	215149564	228236984	244101860	218325231	8
Decachlorobiphenyl		1675757640	1739961147	1894631500	1998157320	2119618200	1885625161	10
Tetrachloro-m-xylene		5392118780	5499156400	5577007680	5634478280	5189850400	5458522308	3
Aroclor-1254-1	(1)	294845056	308276565	323607480	339068536	354395480	324038623	7
Aroclor-1254-2	(2)	254192198	266619067	281454614	297953104	316004460	283244689	9
Aroclor-1254-3	(3)	400479051	415178477	433542960	448248844	459811580	431452182	6
Aroclor-1254-4	(4)	228881544	238106540	250287146	259634416	259809520	247343833	6
Aroclor-1254-5	(5)	318351803	329524227	344594700	358702264	378528780	345940355	7
Decachlorobiphenyl		1730307610	1804634267	1900572880	2018627520	2049052800	1900639015	7
Tetrachloro-m-xylene		5453750800	5591916973	5732062480	5726435600	5385705600	5577974291	3
Aroclor-1268-1	(1)	505658591	508360996	529570342	550274560	556601860	530093270	4

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CALIBRATION FACTOR OF INITIAL CALIBRATION

Aroclor-1268-2	(2)	460495321	464888113	483851588	503248308	499197120	482336090	4
Aroclor-1268-3	(3)	328655790	333834055	349506788	366413796	363835440	348449174	5
Aroclor-1268-4	(4)	119697414	122740856	130580600	138639360	124687920	127269230	6
Aroclor-1268-5	(5)	727936615	731233425	757715258	780322444	766884820	752818512	3
Decachlorobiphenyl		3022618140	3077226480	3258756880	3437439920	3301382200	3219484724	5
Tetrachloro-m-xylene		5636439670	5594566640	5754942040	5800136080	5153076200	5587832126	5

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INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Contract: PORT06

Lab Code: CHEM **Case No.:** Q2198 **SAS No.:** Q2198 **SDG NO.:** Q2198

Instrument ID: ECD_O **Date(s) Analyzed:** 05/14/2025 05/15/2025

GC Column: ZB-MR1 **ID:** 0.32 (mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR
Aroclor-1221	500	1	3.90	3.80	4.00	87106400
		2	3.98	3.88	4.08	63703800
		3	4.06	3.96	4.16	192327000
		4	0.00			0
		5	0.00			0
Aroclor-1232	500	1	4.06	3.96	4.16	153174000
		2	4.55	4.45	4.65	81946400
		3	4.79	4.69	4.89	152927000
		4	4.97	4.87	5.07	82251400
		5	5.01	4.91	5.11	54259200
Aroclor-1262	500	1	6.82	6.72	6.92	486664000
		2	7.33	7.23	7.43	808494000
		3	7.61	7.51	7.71	338264000
		4	7.67	7.57	7.77	590414000
		5	8.17	8.07	8.27	285216000

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INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Contract: PORT06

Lab Code: CHEM **Case No.:** Q2198 **SAS No.:** Q2198 **SDG NO.:** Q2198

Instrument ID: ECD_O **Date(s) Analyzed:** 05/14/2025 05/15/2025

GC Column: ZB-MR2 **ID:** 0.32 (mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR
Aroclor-1221	500	1	3.89	3.79	3.99	73843000
		2	3.98	3.88	4.08	54414200
		3	4.05	3.95	4.15	167101000
		4	0.00			0
		5	0.00			0
Aroclor-1232	500	1	4.05	3.95	4.15	130595000
		2	4.78	4.68	4.88	131160000
		3	4.95	4.85	5.05	68071600
		4	5.04	4.94	5.14	61676400
		5	5.21	5.11	5.31	65732600
Aroclor-1262	500	1	6.79	6.69	6.89	340780000
		2	7.29	7.19	7.39	502862000
		3	7.57	7.47	7.67	187635000
		4	7.64	7.54	7.74	330230000
		5	8.13	8.03	8.23	112306000

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RETENTION TIMES OF INITIAL CALIBRATION

Contract: PORT06

Lab Code: CHEM **Case No.:** Q2198 **SAS No.:** Q2198 **SDG NO.:** Q2198

Instrument ID: ECD_P **Calibration Date(s):** 05/19/2025 05/19/2025

Calibration Times: 09:42 18:25

GC Column: ZB-MR1 ID: 0.32 (mm)

LAB FILE ID: RT 1000 = PP072164.D RT 750 = PP072165.D

RT 500 = PP072166.D RT 250 = PP072167.D RT 050 = PP072168.D

COMPOUND		RT 1000	RT 750	RT 500	RT 250	RT 050	MEAN RT	RT WINDOW FROM	RT WINDOW TO
Aroclor-1016-1	(1)	5.65	5.65	5.65	5.66	5.65	5.65	5.55	5.75
Aroclor-1016-2	(2)	5.68	5.67	5.67	5.68	5.67	5.67	5.57	5.77
Aroclor-1016-3	(3)	5.74	5.74	5.74	5.74	5.73	5.74	5.64	5.84
Aroclor-1016-4	(4)	5.84	5.83	5.83	5.84	5.83	5.83	5.73	5.93
Aroclor-1016-5	(5)	6.13	6.13	6.13	6.13	6.13	6.13	6.03	6.23
Aroclor-1260-1	(1)	7.25	7.25	7.25	7.25	7.25	7.25	7.15	7.35
Aroclor-1260-2	(2)	7.50	7.50	7.50	7.50	7.50	7.50	7.40	7.60
Aroclor-1260-3	(3)	7.86	7.86	7.86	7.86	7.86	7.86	7.76	7.96
Aroclor-1260-4	(4)	8.09	8.08	8.09	8.09	8.08	8.09	7.99	8.19
Aroclor-1260-5	(5)	8.40	8.40	8.40	8.41	8.40	8.40	8.30	8.50
Decachlorobiphenyl		10.21	10.21	10.21	10.21	10.21	10.21	10.11	10.31
Tetrachloro-m-xylene		4.50	4.50	4.50	4.50	4.50	4.50	4.40	4.60
Aroclor-1232-1	(1)	4.86	4.86	4.86	4.87	4.86	4.86	4.76	4.96
Aroclor-1232-2	(2)	5.39	5.39	5.39	5.39	5.39	5.39	5.29	5.49
Aroclor-1232-3	(3)	5.68	5.68	5.68	5.68	5.67	5.68	5.58	5.78
Aroclor-1232-4	(4)	5.84	5.84	5.84	5.84	5.83	5.84	5.74	5.94
Aroclor-1232-5	(5)	5.93	5.93	5.93	5.93	5.92	5.93	5.83	6.03
Decachlorobiphenyl		10.21	10.22	10.21	10.22	10.21	10.21	10.11	10.31
Tetrachloro-m-xylene		4.50	4.50	4.50	4.50	4.50	4.50	4.40	4.60
Aroclor-1242-1	(1)	5.66	5.66	5.66	5.65	5.65	5.66	5.56	5.76
Aroclor-1242-2	(2)	5.68	5.68	5.68	5.68	5.68	5.68	5.58	5.78
Aroclor-1242-3	(3)	5.74	5.74	5.74	5.74	5.74	5.74	5.64	5.84
Aroclor-1242-4	(4)	5.84	5.84	5.84	5.84	5.84	5.84	5.74	5.94
Aroclor-1242-5	(5)	6.57	6.57	6.57	6.57	6.57	6.57	6.47	6.67
Decachlorobiphenyl		10.22	10.22	10.22	10.21	10.22	10.22	10.12	10.32
Tetrachloro-m-xylene		4.50	4.50	4.51	4.50	4.50	4.50	4.40	4.60
Aroclor-1248-1	(1)	5.66	5.66	5.66	5.66	5.65	5.66	5.56	5.76
Aroclor-1248-2	(2)	5.93	5.93	5.93	5.93	5.93	5.93	5.83	6.03
Aroclor-1248-3	(3)	6.13	6.13	6.13	6.13	6.13	6.13	6.03	6.23
Aroclor-1248-4	(4)	6.53	6.53	6.53	6.53	6.53	6.53	6.43	6.63
Aroclor-1248-5	(5)	6.57	6.57	6.57	6.57	6.57	6.57	6.47	6.67
Decachlorobiphenyl		10.22	10.21	10.22	10.22	10.21	10.22	10.12	10.32
Tetrachloro-m-xylene		4.51	4.50	4.50	4.50	4.50	4.50	4.40	4.60
Aroclor-1254-1	(1)	6.51	6.51	6.51	6.51	6.51	6.51	6.41	6.61
Aroclor-1254-2	(2)	6.72	6.72	6.72	6.72	6.72	6.72	6.62	6.82
Aroclor-1254-3	(3)	7.09	7.09	7.09	7.09	7.09	7.09	6.99	7.19
Aroclor-1254-4	(4)	7.37	7.37	7.37	7.37	7.37	7.37	7.27	7.47
Aroclor-1254-5	(5)	7.79	7.79	7.79	7.79	7.79	7.79	7.69	7.89

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RETENTION TIMES OF INITIAL CALIBRATION

Decachlorobiphenyl		10.22	10.22	10.22	10.22	10.22	10.22	10.12	10.32
Tetrachloro-m-xylene		4.50	4.50	4.50	4.50	4.50	4.50	4.40	4.60
Aroclor-1268-1	(1)	8.72	8.72	8.72	8.72	8.72	8.72	8.62	8.82
Aroclor-1268-2	(2)	8.81	8.82	8.81	8.81	8.81	8.81	8.71	8.91
Aroclor-1268-3	(3)	9.04	9.05	9.04	9.04	9.05	9.04	8.94	9.14
Aroclor-1268-4	(4)	9.46	9.46	9.46	9.46	9.46	9.46	9.36	9.56
Aroclor-1268-5	(5)	9.88	9.88	9.88	9.88	9.88	9.88	9.78	9.98
Decachlorobiphenyl		10.22	10.22	10.22	10.21	10.22	10.22	10.12	10.32
Tetrachloro-m-xylene		4.50	4.51	4.50	4.50	4.50	4.50	4.40	4.60

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RETENTION TIMES OF INITIAL CALIBRATION

Contract: PORT06

Lab Code: CHEM **Case No.:** Q2198 **SAS No.:** Q2198 **SDG NO.:** Q2198

Instrument ID: ECD_P **Calibration Date(s):** 05/19/2025 05/19/2025

Calibration Times: 09:42 18:25

GC Column: ZB-MR2 ID: 0.32 (mm)

LAB FILE ID: RT 1000 = PP072164.D RT 750 = PP072165.D

RT 500 = PP072166.D RT 250 = PP072167.D RT 050 = PP072168.D

COMPOUND		RT 1000	RT 750	RT 500	RT 250	RT 050	MEAN RT	RT WINDOW FROM	RT WINDOW TO
Aroclor-1016-1	(1)	4.88	4.88	4.88	4.88	4.88	4.88	4.78	4.98
Aroclor-1016-2	(2)	4.90	4.89	4.90	4.90	4.90	4.90	4.80	5.00
Aroclor-1016-3	(3)	5.07	5.07	5.07	5.07	5.07	5.07	4.97	5.17
Aroclor-1016-4	(4)	5.11	5.11	5.12	5.12	5.12	5.12	5.02	5.22
Aroclor-1016-5	(5)	5.33	5.33	5.33	5.33	5.33	5.33	5.23	5.43
Aroclor-1260-1	(1)	6.36	6.36	6.36	6.36	6.36	6.36	6.26	6.46
Aroclor-1260-2	(2)	6.55	6.55	6.55	6.55	6.55	6.55	6.45	6.65
Aroclor-1260-3	(3)	6.71	6.71	6.71	6.71	6.71	6.71	6.61	6.81
Aroclor-1260-4	(4)	7.18	7.18	7.18	7.18	7.18	7.18	7.08	7.28
Aroclor-1260-5	(5)	7.42	7.42	7.42	7.42	7.42	7.42	7.32	7.52
Decachlorobiphenyl		8.82	8.82	8.82	8.82	8.82	8.82	8.72	8.92
Tetrachloro-m-xylene		3.79	3.79	3.79	3.79	3.79	3.79	3.69	3.89
Aroclor-1232-1	(1)	4.17	4.17	4.17	4.17	4.17	4.17	4.07	4.27
Aroclor-1232-2	(2)	4.90	4.90	4.90	4.90	4.90	4.90	4.80	5.00
Aroclor-1232-3	(3)	5.07	5.08	5.08	5.07	5.08	5.08	4.98	5.18
Aroclor-1232-4	(4)	5.16	5.16	5.16	5.16	5.16	5.16	5.06	5.26
Aroclor-1232-5	(5)	5.33	5.33	5.33	5.33	5.33	5.33	5.23	5.43
Decachlorobiphenyl		8.82	8.82	8.82	8.82	8.82	8.82	8.72	8.92
Tetrachloro-m-xylene		3.80	3.80	3.80	3.80	3.80	3.80	3.70	3.90
Aroclor-1242-1	(1)	4.88	4.88	4.88	4.88	4.88	4.88	4.78	4.98
Aroclor-1242-2	(2)	4.90	4.90	4.90	4.90	4.90	4.90	4.80	5.00
Aroclor-1242-3	(3)	5.08	5.08	5.08	5.08	5.08	5.08	4.98	5.18
Aroclor-1242-4	(4)	5.16	5.16	5.16	5.16	5.16	5.16	5.06	5.26
Aroclor-1242-5	(5)	5.68	5.68	5.69	5.68	5.68	5.68	5.58	5.78
Decachlorobiphenyl		8.83	8.83	8.83	8.83	8.82	8.83	8.73	8.93
Tetrachloro-m-xylene		3.80	3.80	3.80	3.80	3.80	3.80	3.70	3.90
Aroclor-1248-1	(1)	4.88	4.88	4.88	4.88	4.88	4.88	4.78	4.98
Aroclor-1248-2	(2)	5.12	5.12	5.12	5.12	5.12	5.12	5.02	5.22
Aroclor-1248-3	(3)	5.16	5.16	5.16	5.16	5.16	5.16	5.06	5.26
Aroclor-1248-4	(4)	5.33	5.33	5.33	5.33	5.33	5.33	5.23	5.43
Aroclor-1248-5	(5)	5.73	5.73	5.73	5.73	5.73	5.73	5.63	5.83
Decachlorobiphenyl		8.83	8.83	8.83	8.83	8.82	8.83	8.73	8.93
Tetrachloro-m-xylene		3.80	3.80	3.80	3.80	3.80	3.80	3.70	3.90
Aroclor-1254-1	(1)	5.69	5.69	5.69	5.69	5.69	5.69	5.59	5.79
Aroclor-1254-2	(2)	5.83	5.83	5.83	5.83	5.83	5.83	5.73	5.93
Aroclor-1254-3	(3)	6.24	6.24	6.24	6.24	6.24	6.24	6.14	6.34
Aroclor-1254-4	(4)	6.47	6.47	6.47	6.47	6.47	6.47	6.37	6.57
Aroclor-1254-5	(5)	6.88	6.88	6.88	6.88	6.88	6.88	6.78	6.98

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RETENTION TIMES OF INITIAL CALIBRATION

Decachlorobiphenyl		8.83	8.83	8.83	8.83	8.83	8.83	8.73	8.93
Tetrachloro-m-xylene		3.80	3.80	3.80	3.80	3.80	3.80	3.70	3.90
Aroclor-1268-1	(1)	7.70	7.70	7.70	7.70	7.70	7.70	7.60	7.80
Aroclor-1268-2	(2)	7.77	7.77	7.77	7.77	7.77	7.77	7.67	7.87
Aroclor-1268-3	(3)	7.97	7.97	7.97	7.97	7.97	7.97	7.87	8.07
Aroclor-1268-4	(4)	8.27	8.27	8.27	8.27	8.27	8.27	8.17	8.37
Aroclor-1268-5	(5)	8.57	8.57	8.57	8.57	8.57	8.57	8.47	8.67
Decachlorobiphenyl		8.83	8.83	8.83	8.82	8.82	8.83	8.73	8.93
Tetrachloro-m-xylene		3.80	3.80	3.80	3.80	3.80	3.80	3.70	3.90

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CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: PORT06

Lab Code: CHEM **Case No.:** Q2198 **SAS No.:** Q2198 **SDG NO.:** Q2198

Instrument ID: ECD_P **Calibration Date(s):** 05/19/2025 05/19/2025

Calibration Times: 09:42 18:25

GC Column: ZB-MR1 **ID:** 0.32 **(mm)**

LAB FILE ID: **CF 1000 =** PP072164.D **CF 750 =** PP072165.D

CF 500 = PP072166.D **CF 250 =** PP072167.D **CF 050 =** PP072168.D

COMPOUND		CF 1000	CF 750	CF 500	CF 250	CF 050	CF	% RSD
Aroclor-1016-1	(1)	66878491	69828851	76010044	83211968	79488900	75083651	9
Aroclor-1016-2	(2)	99468528	104467549	110518222	118579572	101924480	106991670	7
Aroclor-1016-3	(3)	61412187	64234915	67714060	73550892	60912680	65564947	8
Aroclor-1016-4	(4)	50363803	53404009	55311866	58220708	49049560	53269989	7
Aroclor-1016-5	(5)	45437165	47941741	49914606	51189784	50062640	48909187	5
Aroclor-1260-1	(1)	85553757	90346417	93957158	98060904	100055640	93594775	6
Aroclor-1260-2	(2)	135650987	137755076	143609204	149400496	151032820	143489717	5
Aroclor-1260-3	(3)	109042220	112821207	117388622	121236852	108865120	113870804	5
Aroclor-1260-4	(4)	102101329	107107725	110940768	114591832	101771400	107302611	5
Aroclor-1260-5	(5)	228876095	233706888	240834266	249937120	229956720	236662218	4
Decachlorobiphenyl		1538266220	1617591187	1654764640	1712186920	1622812600	1629124313	4
Tetrachloro-m-xylene		1944699760	2026562000	2072807240	2135906680	1874026800	2010800496	5
Aroclor-1232-1	(1)	44075653	45896815	48002922	48247276	49319600	47108453	4
Aroclor-1232-2	(2)	21717379	22928696	23244388	23029808	25495660	23283186	6
Aroclor-1232-3	(3)	46772523	50148184	51844656	54382920	47167260	50063109	6
Aroclor-1232-4	(4)	23238504	24146713	24804390	26183196	27122440	25099049	6
Aroclor-1232-5	(5)	15752983	16470224	16442412	18109320	20822780	17519544	12
Decachlorobiphenyl		1545279190	1600827560	1672901480	1703701720	1499866000	1604515190	5
Tetrachloro-m-xylene		1886122400	2000973440	2054641840	2122290120	1923172600	1997440080	5
Aroclor-1242-1	(1)	56211553	57323072	62083360	65843868	71524840	62597339	10
Aroclor-1242-2	(2)	82973080	85971496	91883334	97584776	75486540	86779845	10
Aroclor-1242-3	(3)	51559127	52121972	55496172	57080948	59071260	55065896	6
Aroclor-1242-4	(4)	41207603	43030657	45948576	46781836	44776460	44349026	5
Aroclor-1242-5	(5)	47977894	48696228	50879554	52435600	54934800	50984815	6
Decachlorobiphenyl		1526214180	1567133680	1645977640	1728993240	1487418400	1591147428	6
Tetrachloro-m-xylene		1827808490	1928927520	1991275140	2114690400	1713029600	1915146230	8
Aroclor-1248-1	(1)	44038397	47472432	47912646	51445364	51108500	48395468	6
Aroclor-1248-2	(2)	56984732	59400859	61165396	63476680	62172680	60640069	4
Aroclor-1248-3	(3)	64677132	65813748	68767932	70638012	61003720	66180109	6
Aroclor-1248-4	(4)	81606824	85304428	88412180	92196600	89440360	87392078	5
Aroclor-1248-5	(5)	77587697	81003728	83211240	86851844	86474060	83025714	5
Decachlorobiphenyl		1573368300	1599269360	1663196880	1714969280	1478724200	1605905604	6
Tetrachloro-m-xylene		1880240370	1909383627	1990709860	2112434560	1856348600	1949823403	5
Aroclor-1254-1	(1)	79792123	82783284	86922424	91684028	88834440	86003260	6

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CALIBRATION FACTOR OF INITIAL CALIBRATION

Aroclor-1254-2	(2)	120142096	124850076	131105324	134547092	142741880	130677294	7
Aroclor-1254-3	(3)	124307316	127832729	133782854	136984312	137108200	132003082	4
Aroclor-1254-4	(4)	116304358	118550812	124418220	136069712	157210520	130510724	13
Aroclor-1254-5	(5)	107938622	112056604	116315218	117138120	102784720	111246657	5
Decachlorobiphenyl		1576500070	1614032093	1688035380	1708021160	1475084400	1612334621	6
Tetrachloro-m-xylene		1869066560	1948875347	2032435420	2069900400	1617536400	1907562825	9
Aroclor-1268-1	(1)	315692357	322966827	337626016	351356792	338115380	333151474	4
Aroclor-1268-2	(2)	265886956	272371317	285215132	296487980	279979560	279988189	4
Aroclor-1268-3	(3)	227961300	235081659	247250176	255747588	241284760	241465097	4
Aroclor-1268-4	(4)	101392203	104765767	107968348	108360296	102254740	104948271	3
Aroclor-1268-5	(5)	651541042	667177075	686960040	706355632	672967440	677000246	3
Decachlorobiphenyl		2733685450	2815599213	2937966700	3038738360	2636754200	2832548785	6
Tetrachloro-m-xylene		1849618000	1900065360	1995699220	2054630680	1744336400	1908869932	6

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CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: PORT06

Lab Code: CHEM **Case No.:** Q2198 **SAS No.:** Q2198 **SDG NO.:** Q2198

Instrument ID: ECD_P **Calibration Date(s):** 05/19/2025 05/19/2025

Calibration Times: 09:42 18:25

GC Column: ZB-MR2 **ID:** 0.32 (mm)

LAB FILE ID: **CF 1000 =** PP072164.D **CF 750 =** PP072165.D

CF 500 = PP072166.D **CF 250 =** PP072167.D **CF 050 =** PP072168.D

COMPOUND		CF 1000	CF 750	CF 500	CF 250	CF 050	CF	% RSD
Aroclor-1016-1	(1)	54525663	58849481	59632288	64515432	69624760	61429525	9
Aroclor-1016-2	(2)	79772717	86154421	85288758	92453296	95277560	87789350	7
Aroclor-1016-3	(3)	42641318	46352395	47330430	50989192	50959120	47654491	7
Aroclor-1016-4	(4)	33654246	36754908	37811202	41521120	40485160	38045327	8
Aroclor-1016-5	(5)	43791070	47744144	49105368	53701332	54780200	49824423	9
Aroclor-1260-1	(1)	72244144	75307759	80373306	84844232	85999160	79753720	7
Aroclor-1260-2	(2)	87664004	90365408	98490088	104924488	125666920	101422182	15
Aroclor-1260-3	(3)	79909091	81326363	88937536	92494016	91844780	86902357	7
Aroclor-1260-4	(4)	64349922	67685321	72647720	77711116	78060640	72090944	8
Aroclor-1260-5	(5)	161315528	166937577	177635780	187517596	174713540	173624004	6
Decachlorobiphenyl		920208980	1044964960	1093136160	1163579000	1071118200	1058601460	8
Tetrachloro-m-xylene		1547649930	1584243107	1593704220	1639561360	1626633000	1598358323	2
Aroclor-1232-1	(1)	37616932	40592059	45290150	47667724	45555860	43344545	9
Aroclor-1232-2	(2)	39358353	42024527	44532022	47402620	47585980	44180700	8
Aroclor-1232-3	(3)	20796080	22347549	23808552	25172964	24790340	23383097	8
Aroclor-1232-4	(4)	17897124	19415229	20680720	21689292	23918420	20720157	11
Aroclor-1232-5	(5)	19472370	21237964	22534450	24219412	28307940	23154427	15
Decachlorobiphenyl		991061470	1069964400	1120483020	1147415120	1151969600	1096178722	6
Tetrachloro-m-xylene		1503650850	1560846907	1685979140	1671096560	1578260800	1599966851	5
Aroclor-1242-1	(1)	46123670	49902476	52843000	57237560	54435320	52108405	8
Aroclor-1242-2	(2)	66003789	71039361	75471286	80940564	74026140	73496228	8
Aroclor-1242-3	(3)	34394227	38777200	41064482	44714476	36677280	39125533	10
Aroclor-1242-4	(4)	32146418	36854119	38826456	43192656	36894340	37582798	11
Aroclor-1242-5	(5)	41776015	46613400	48754570	54226988	49917340	48257663	9
Decachlorobiphenyl		967171680	1074707920	1046164720	1163123680	1078294400	1065892480	7
Tetrachloro-m-xylene		1545621850	1670448987	1600956100	1623877080	1377345600	1563649923	7
Aroclor-1248-1	(1)	38942472	38080832	42980810	46736940	49867020	43321615	12
Aroclor-1248-2	(2)	50685144	49386624	55814958	61079164	65420760	56477330	12
Aroclor-1248-3	(3)	53612101	51937139	58301874	64007240	67677000	59107071	11
Aroclor-1248-4	(4)	63542852	61081784	68799052	75621092	79219440	69652844	11
Aroclor-1248-5	(5)	63751699	62374025	69241268	74501112	78829180	69739457	10
Decachlorobiphenyl		1077930460	1066864453	1129616840	1218519160	1187538600	1136093903	6
Tetrachloro-m-xylene		1585370290	1544149787	1686359520	1807980440	1717995000	1668371007	6
Aroclor-1254-1	(1)	88394708	92134828	103452628	109580892	106208260	99954263	9

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CALIBRATION FACTOR OF INITIAL CALIBRATION

Aroclor-1254-2	(2)	75158218	78808232	90151838	93786952	93629340	86306916	10
Aroclor-1254-3	(3)	118588697	123091027	137573488	140955076	122895140	128620686	8
Aroclor-1254-4	(4)	76184182	79817879	90049888	92363636	88066400	85296397	8
Aroclor-1254-5	(5)	103321222	111630831	120507404	120857332	110441220	113351602	7
Decachlorobiphenyl		1048618240	1081081133	1110321040	1211638680	1138223000	1117976419	6
Tetrachloro-m-xylene		1515554540	1677026120	1758978840	1703246040	1394379800	1609837068	9
Aroclor-1268-1	(1)	212587803	222334836	235771254	243664628	256729280	234217560	7
Aroclor-1268-2	(2)	188526781	196925783	208389682	217661736	222594360	206819668	7
Aroclor-1268-3	(3)	155195263	161035703	174669460	176674312	179279020	169370752	6
Aroclor-1268-4	(4)	67370219	71019111	74855072	76562592	74977520	72956903	5
Aroclor-1268-5	(5)	431064337	442819956	457037218	461770552	492119380	456962289	5
Decachlorobiphenyl		1753973260	1820277787	1902401960	1966032280	2130248600	1914586777	8
Tetrachloro-m-xylene		1581658390	1604094987	1649636500	1662342440	1498230000	1599192463	4

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INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Contract: PORT06

Lab Code: CHEM **Case No.:** Q2198 **SAS No.:** Q2198 **SDG NO.:** Q2198

Instrument ID: ECD_P **Date(s) Analyzed:** 05/19/2025 05/19/2025

GC Column: ZB-MR1 **ID:** 0.32 (mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR
Aroclor-1221	500	1	4.70	4.60	4.80	25133000
		2	4.79	4.69	4.89	17981400
		3	4.86	4.76	4.96	58509600
		4	0.00			0
		5	0.00			0
Aroclor-1262	500	1	8.09	7.99	8.19	133245000
		2	8.41	8.31	8.51	272386000
		3	8.72	8.62	8.82	185530000
		4	8.81	8.71	8.91	134281000
		5	9.46	9.36	9.56	92460600

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INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Contract: PORT06

Lab Code: CHEM **Case No.:** Q2198 **SAS No.:** Q2198 **SDG NO.:** Q2198

Instrument ID: ECD_P **Date(s) Analyzed:** 05/19/2025 05/19/2025

GC Column: ZB-MR2 **ID:** 0.32 (mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR
Aroclor-1221	500	1	4.01	3.91	4.11	23124400
		2	4.09	3.99	4.19	17698400
		3	4.17	4.07	4.27	52270400
		4	0.00			0
		5	0.00			0
Aroclor-1262	500	1	6.92	6.82	7.02	113028000
		2	7.18	7.08	7.28	97127000
		3	7.70	7.60	7.80	81531200
		4	7.77	7.67	7.87	140624000
		5	8.27	8.17	8.37	65083800

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q2198 **SAS No.:** Q2198 **SDG NO.:** Q2198

Continuing Calib Date: 06/04/2025 **Initial Calibration Date(s):** 05/14/2025 05/15/2025

Continuing Calib Time: 15:23 **Initial Calibration Time(s):** 17:19 01:31

GC Column: ZB-MR1 **ID:** 0.32 **(mm)**

COMPOUND		CCAL RT	AVG RT	RT WINDOW FROM	TO	DIFF RT
Aroclor-1016-1	(1)	4.77	4.77	4.67	4.87	0.00
Aroclor-1016-2	(2)	4.79	4.79	4.69	4.89	0.00
Aroclor-1016-3	(3)	4.84	4.85	4.75	4.95	0.01
Aroclor-1016-4	(4)	4.96	4.97	4.87	5.07	0.01
Aroclor-1016-5	(5)	5.22	5.23	5.13	5.33	0.01
Aroclor-1260-1	(1)	6.26	6.27	6.17	6.37	0.01
Aroclor-1260-2	(2)	6.45	6.46	6.36	6.56	0.01
Aroclor-1260-3	(3)	6.82	6.82	6.72	6.92	0.00
Aroclor-1260-4	(4)	7.08	7.08	6.98	7.18	0.00
Aroclor-1260-5	(5)	7.32	7.33	7.23	7.43	0.01
Tetrachloro-m-xylene		3.68	3.68	3.58	3.78	0.00
Decachlorobiphenyl		8.72	8.72	8.62	8.82	0.00

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q2198 **SAS No.:** Q2198 **SDG NO.:** Q2198

Continuing Calib Date: 06/04/2025 **Initial Calibration Date(s):** 05/14/2025 05/15/2025

Continuing Calib Time: 15:23 **Initial Calibration Time(s):** 17:19 01:31

GC Column: ZB-MR2 **ID:** 0.32 **(mm)**

COMPOUND		CCAL RT	AVG RT	RT WINDOW FROM	TO	DIFF RT
Aroclor-1016-1	(1)	4.75	4.76	4.66	4.86	0.01
Aroclor-1016-2	(2)	4.77	4.78	4.68	4.88	0.01
Aroclor-1016-3	(3)	4.95	4.95	4.85	5.05	0.00
Aroclor-1016-4	(4)	4.99	4.99	4.89	5.09	0.00
Aroclor-1016-5	(5)	5.20	5.21	5.11	5.31	0.01
Aroclor-1260-1	(1)	6.23	6.24	6.14	6.34	0.01
Aroclor-1260-2	(2)	6.42	6.43	6.33	6.53	0.01
Aroclor-1260-3	(3)	6.57	6.58	6.48	6.68	0.01
Aroclor-1260-4	(4)	7.04	7.05	6.95	7.15	0.01
Aroclor-1260-5	(5)	7.28	7.29	7.19	7.39	0.01
Tetrachloro-m-xylene		3.68	3.68	3.58	3.78	0.01
Decachlorobiphenyl		8.67	8.67	8.57	8.77	0.01

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q2198 **SAS No.:** Q2198 **SDG NO.:** Q2198

GC Column: ZB-MR1 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 05/14/2025 05/14/2025

Client Sample No.: CCAL01 **Date Analyzed:** 06/04/2025

Lab Sample No.: AR1660CCC500 **Data File :** PO111468.D **Time Analyzed:** 15:23

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	4.768	4.673	4.873	523.360	500.000	4.7
Aroclor-1016-2	4.786	4.692	4.892	535.210	500.000	7.0
Aroclor-1016-3	4.843	4.749	4.949	546.050	500.000	9.2
Aroclor-1016-4	4.964	4.869	5.069	538.370	500.000	7.7
Aroclor-1016-5	5.221	5.126	5.326	540.470	500.000	8.1
Aroclor-1260-1	6.260	6.166	6.366	544.420	500.000	8.9
Aroclor-1260-2	6.449	6.355	6.555	563.730	500.000	12.7
Aroclor-1260-3	6.816	6.722	6.922	555.280	500.000	11.1
Aroclor-1260-4	7.076	6.983	7.183	519.810	500.000	4.0
Aroclor-1260-5	7.318	7.225	7.425	519.560	500.000	3.9
Decachlorobiphenyl	8.715	8.624	8.824	47.370	50.000	-5.3
Tetrachloro-m-xylene	3.679	3.582	3.782	51.580	50.000	3.2

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q2198 **SAS No.:** Q2198 **SDG NO.:** Q2198

GC Column: ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 05/14/2025 05/14/2025

Client Sample No.: CCAL01 **Date Analyzed:** 06/04/2025

Lab Sample No.: AR1660CCC500 **Data File :** PO111468.D **Time Analyzed:** 15:23

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	4.753	4.658	4.858	490.320	500.000	-1.9
Aroclor-1016-2	4.772	4.677	4.877	491.420	500.000	-1.7
Aroclor-1016-3	4.947	4.852	5.052	487.880	500.000	-2.4
Aroclor-1016-4	4.990	4.894	5.094	482.620	500.000	-3.5
Aroclor-1016-5	5.202	5.107	5.307	500.070	500.000	0.0
Aroclor-1260-1	6.232	6.138	6.338	486.300	500.000	-2.7
Aroclor-1260-2	6.420	6.326	6.526	482.110	500.000	-3.6
Aroclor-1260-3	6.572	6.479	6.679	449.800	500.000	-10.0
Aroclor-1260-4	7.042	6.949	7.149	460.990	500.000	-7.8
Aroclor-1260-5	7.284	7.191	7.391	448.300	500.000	-10.3
Decachlorobiphenyl	8.665	8.574	8.774	44.590	50.000	-10.8
Tetrachloro-m-xylene	3.675	3.579	3.779	51.160	50.000	2.3

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q2198 **SAS No.:** Q2198 **SDG NO.:** Q2198

Continuing Calib Date: 06/04/2025 **Initial Calibration Date(s):** 05/14/2025 05/15/2025

Continuing Calib Time: 18:57 **Initial Calibration Time(s):** 17:19 01:31

GC Column: ZB-MR1 **ID:** 0.32 **(mm)**

COMPOUND		CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Aroclor-1016-1	(1)	4.77	4.77	4.67	4.87	0.00
Aroclor-1016-2	(2)	4.79	4.79	4.69	4.89	0.00
Aroclor-1016-3	(3)	4.84	4.85	4.75	4.95	0.01
Aroclor-1016-4	(4)	4.96	4.97	4.87	5.07	0.01
Aroclor-1016-5	(5)	5.22	5.23	5.13	5.33	0.01
Aroclor-1260-1	(1)	6.26	6.27	6.17	6.37	0.01
Aroclor-1260-2	(2)	6.45	6.46	6.36	6.56	0.01
Aroclor-1260-3	(3)	6.82	6.82	6.72	6.92	0.00
Aroclor-1260-4	(4)	7.08	7.08	6.98	7.18	0.00
Aroclor-1260-5	(5)	7.32	7.33	7.23	7.43	0.01
Tetrachloro-m-xylene		3.68	3.68	3.58	3.78	0.00
Decachlorobiphenyl		8.71	8.72	8.62	8.82	0.01

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q2198 **SAS No.:** Q2198 **SDG NO.:** Q2198

Continuing Calib Date: 06/04/2025 **Initial Calibration Date(s):** 05/14/2025 05/15/2025

Continuing Calib Time: 18:57 **Initial Calibration Time(s):** 17:19 01:31

GC Column: ZB-MR2 **ID:** 0.32 **(mm)**

COMPOUND		CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Aroclor-1016-1	(1)	4.75	4.76	4.66	4.86	0.01
Aroclor-1016-2	(2)	4.77	4.78	4.68	4.88	0.01
Aroclor-1016-3	(3)	4.95	4.95	4.85	5.05	0.00
Aroclor-1016-4	(4)	4.99	4.99	4.89	5.09	0.00
Aroclor-1016-5	(5)	5.20	5.21	5.11	5.31	0.01
Aroclor-1260-1	(1)	6.23	6.24	6.14	6.34	0.01
Aroclor-1260-2	(2)	6.42	6.43	6.33	6.53	0.01
Aroclor-1260-3	(3)	6.57	6.58	6.48	6.68	0.01
Aroclor-1260-4	(4)	7.04	7.05	6.95	7.15	0.01
Aroclor-1260-5	(5)	7.28	7.29	7.19	7.39	0.01
Tetrachloro-m-xylene		3.68	3.68	3.58	3.78	0.00
Decachlorobiphenyl		8.67	8.67	8.57	8.77	0.00

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q2198 **SAS No.:** Q2198 **SDG NO.:** Q2198

GC Column: ZB-MR1 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 05/14/2025 05/14/2025

Client Sample No.: CCAL02 **Date Analyzed:** 06/04/2025

Lab Sample No.: AR1660CCC500 **Data File :** PO111477.D **Time Analyzed:** 18:57

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	4.768	4.673	4.873	526.940	500.000	5.4
Aroclor-1016-2	4.787	4.692	4.892	541.980	500.000	8.4
Aroclor-1016-3	4.843	4.749	4.949	550.360	500.000	10.1
Aroclor-1016-4	4.963	4.869	5.069	546.290	500.000	9.3
Aroclor-1016-5	5.220	5.126	5.326	584.610	500.000	16.9
Aroclor-1260-1	6.259	6.166	6.366	548.050	500.000	9.6
Aroclor-1260-2	6.449	6.355	6.555	576.860	500.000	15.4
Aroclor-1260-3	6.815	6.722	6.922	557.340	500.000	11.5
Aroclor-1260-4	7.076	6.983	7.183	517.790	500.000	3.6
Aroclor-1260-5	7.317	7.225	7.425	532.630	500.000	6.5
Decachlorobiphenyl	8.714	8.624	8.824	47.200	50.000	-5.6
Tetrachloro-m-xylene	3.679	3.582	3.782	51.790	50.000	3.6

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q2198 **SAS No.:** Q2198 **SDG NO.:** Q2198

GC Column: ZB-MR2 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 05/14/2025 05/14/2025

Client Sample No.: CCAL02 **Date Analyzed:** 06/04/2025

Lab Sample No.: AR1660CCC500 **Data File :** PO111477.D **Time Analyzed:** 18:57

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	4.753	4.658	4.858	492.060	500.000	-1.6
Aroclor-1016-2	4.772	4.677	4.877	499.680	500.000	-0.1
Aroclor-1016-3	4.947	4.852	5.052	492.860	500.000	-1.4
Aroclor-1016-4	4.990	4.894	5.094	481.310	500.000	-3.7
Aroclor-1016-5	5.202	5.107	5.307	521.320	500.000	4.3
Aroclor-1260-1	6.233	6.138	6.338	488.530	500.000	-2.3
Aroclor-1260-2	6.420	6.326	6.526	485.600	500.000	-2.9
Aroclor-1260-3	6.573	6.479	6.679	453.960	500.000	-9.2
Aroclor-1260-4	7.043	6.949	7.149	465.090	500.000	-7.0
Aroclor-1260-5	7.284	7.191	7.391	455.420	500.000	-8.9
Decachlorobiphenyl	8.666	8.574	8.774	45.160	50.000	-9.7
Tetrachloro-m-xylene	3.676	3.579	3.779	51.500	50.000	3.0

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q2198 **SAS No.:** Q2198 **SDG NO.:** Q2198

Continuing Calib Date: 06/04/2025 **Initial Calibration Date(s):** 05/19/2025 05/19/2025

Continuing Calib Time: 14:51 **Initial Calibration Time(s):** 09:42 18:25

GC Column: ZB-MR1 **ID:** 0.32 **(mm)**

COMPOUND		CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Aroclor-1016-1	(1)	5.65	5.65	5.55	5.75	0.00
Aroclor-1016-2	(2)	5.67	5.67	5.57	5.77	0.00
Aroclor-1016-3	(3)	5.74	5.74	5.64	5.84	0.00
Aroclor-1016-4	(4)	5.83	5.83	5.73	5.93	0.00
Aroclor-1016-5	(5)	6.13	6.13	6.03	6.23	0.00
Aroclor-1260-1	(1)	7.24	7.25	7.15	7.35	0.01
Aroclor-1260-2	(2)	7.50	7.50	7.40	7.60	0.00
Aroclor-1260-3	(3)	7.86	7.86	7.76	7.96	0.00
Aroclor-1260-4	(4)	8.08	8.09	7.99	8.19	0.01
Aroclor-1260-5	(5)	8.40	8.40	8.30	8.50	0.00
Tetrachloro-m-xylene		4.50	4.50	4.40	4.60	0.00
Decachlorobiphenyl		10.20	10.21	10.11	10.31	0.01

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q2198 **SAS No.:** Q2198 **SDG NO.:** Q2198

Continuing Calib Date: 06/04/2025 **Initial Calibration Date(s):** 05/19/2025 05/19/2025

Continuing Calib Time: 14:51 **Initial Calibration Time(s):** 09:42 18:25

GC Column: ZB-MR2 **ID:** 0.32 **(mm)**

COMPOUND		CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Aroclor-1016-1	(1)	4.88	4.88	4.78	4.98	0.00
Aroclor-1016-2	(2)	4.90	4.90	4.80	5.00	0.00
Aroclor-1016-3	(3)	5.07	5.07	4.97	5.17	0.00
Aroclor-1016-4	(4)	5.11	5.12	5.02	5.22	0.01
Aroclor-1016-5	(5)	5.33	5.33	5.23	5.43	0.00
Aroclor-1260-1	(1)	6.36	6.36	6.26	6.46	0.00
Aroclor-1260-2	(2)	6.55	6.55	6.45	6.65	0.00
Aroclor-1260-3	(3)	6.70	6.71	6.61	6.81	0.01
Aroclor-1260-4	(4)	7.17	7.18	7.08	7.28	0.01
Aroclor-1260-5	(5)	7.41	7.42	7.32	7.52	0.01
Tetrachloro-m-xylene		3.80	3.79	3.69	3.89	-0.01
Decachlorobiphenyl		8.81	8.82	8.72	8.92	0.01

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q2198 **SAS No.:** Q2198 **SDG NO.:** Q2198

GC Column: ZB-MR1 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 05/19/2025 05/19/2025

Client Sample No.: CCAL03 **Date Analyzed:** 06/04/2025

Lab Sample No.: AR1660CCC500 **Data File :** PP072619.D **Time Analyzed:** 14:51

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	5.653	5.552	5.752	408.380	500.000	-18.3
Aroclor-1016-2	5.674	5.574	5.774	446.380	500.000	-10.7
Aroclor-1016-3	5.736	5.636	5.836	438.840	500.000	-12.2
Aroclor-1016-4	5.834	5.734	5.934	447.960	500.000	-10.4
Aroclor-1016-5	6.126	6.027	6.227	453.310	500.000	-9.3
Aroclor-1260-1	7.243	7.147	7.347	454.670	500.000	-9.1
Aroclor-1260-2	7.497	7.401	7.601	456.280	500.000	-8.7
Aroclor-1260-3	7.857	7.760	7.960	575.660	500.000	15.1
Aroclor-1260-4	8.078	7.985	8.185	472.200	500.000	-5.6
Aroclor-1260-5	8.397	8.303	8.503	486.080	500.000	-2.8
Decachlorobiphenyl	10.199	10.113	10.313	50.400	50.000	0.8
Tetrachloro-m-xylene	4.501	4.396	4.596	46.060	50.000	-7.9

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q2198 **SAS No.:** Q2198 **SDG NO.:** Q2198

GC Column: ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 05/19/2025 05/19/2025

Client Sample No.: CCAL03 **Date Analyzed:** 06/04/2025

Lab Sample No.: AR1660CCC500 **Data File :** PP072619.D **Time Analyzed:** 14:51

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	4.878	4.777	4.977	478.490	500.000	-4.3
Aroclor-1016-2	4.896	4.795	4.995	490.280	500.000	-1.9
Aroclor-1016-3	5.072	4.973	5.173	492.560	500.000	-1.5
Aroclor-1016-4	5.114	5.015	5.215	499.290	500.000	-0.1
Aroclor-1016-5	5.328	5.229	5.429	516.590	500.000	3.3
Aroclor-1260-1	6.359	6.264	6.464	500.890	500.000	0.2
Aroclor-1260-2	6.548	6.453	6.653	478.230	500.000	-4.4
Aroclor-1260-3	6.700	6.606	6.806	510.370	500.000	2.1
Aroclor-1260-4	7.170	7.077	7.277	505.570	500.000	1.1
Aroclor-1260-5	7.412	7.319	7.519	505.920	500.000	1.2
Decachlorobiphenyl	8.811	8.723	8.923	53.050	50.000	6.1
Tetrachloro-m-xylene	3.797	3.691	3.891	49.150	50.000	-1.7

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q2198 **SAS No.:** Q2198 **SDG NO.:** Q2198

Continuing Calib Date: 06/04/2025 **Initial Calibration Date(s):** 05/19/2025 05/19/2025

Continuing Calib Time: 20:01 **Initial Calibration Time(s):** 09:42 18:25

GC Column: ZB-MR1 **ID:** 0.32 **(mm)**

COMPOUND		CCAL RT	AVG RT	RT WINDOW FROM	TO	DIFF RT
Aroclor-1016-1	(1)	5.65	5.65	5.55	5.75	0.00
Aroclor-1016-2	(2)	5.68	5.67	5.57	5.77	-0.01
Aroclor-1016-3	(3)	5.74	5.74	5.64	5.84	0.00
Aroclor-1016-4	(4)	5.84	5.83	5.73	5.93	-0.01
Aroclor-1016-5	(5)	6.13	6.13	6.03	6.23	0.00
Aroclor-1260-1	(1)	7.25	7.25	7.15	7.35	0.01
Aroclor-1260-2	(2)	7.50	7.50	7.40	7.60	0.00
Aroclor-1260-3	(3)	7.86	7.86	7.76	7.96	0.00
Aroclor-1260-4	(4)	8.08	8.09	7.99	8.19	0.01
Aroclor-1260-5	(5)	8.40	8.40	8.30	8.50	0.00
Tetrachloro-m-xylene		4.50	4.50	4.40	4.60	0.00
Decachlorobiphenyl		10.20	10.21	10.11	10.31	0.01

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q2198 **SAS No.:** Q2198 **SDG NO.:** Q2198

Continuing Calib Date: 06/04/2025 **Initial Calibration Date(s):** 05/19/2025 05/19/2025

Continuing Calib Time: 20:01 **Initial Calibration Time(s):** 09:42 18:25

GC Column: ZB-MR2 **ID:** 0.32 **(mm)**

COMPOUND		CCAL RT	AVG RT	RT WINDOW FROM	TO	DIFF RT
Aroclor-1016-1	(1)	4.88	4.88	4.78	4.98	0.00
Aroclor-1016-2	(2)	4.90	4.90	4.80	5.00	0.00
Aroclor-1016-3	(3)	5.07	5.07	4.97	5.17	0.00
Aroclor-1016-4	(4)	5.12	5.12	5.02	5.22	0.01
Aroclor-1016-5	(5)	5.33	5.33	5.23	5.43	0.00
Aroclor-1260-1	(1)	6.36	6.36	6.26	6.46	0.00
Aroclor-1260-2	(2)	6.55	6.55	6.45	6.65	0.00
Aroclor-1260-3	(3)	6.70	6.71	6.61	6.81	0.01
Aroclor-1260-4	(4)	7.17	7.18	7.08	7.28	0.01
Aroclor-1260-5	(5)	7.41	7.42	7.32	7.52	0.01
Tetrachloro-m-xylene		3.80	3.79	3.69	3.89	-0.01
Decachlorobiphenyl		8.81	8.82	8.72	8.92	0.01

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q2198 **SAS No.:** Q2198 **SDG NO.:** Q2198

GC Column: ZB-MR1 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 05/19/2025 05/19/2025

Client Sample No.: CCAL04 **Date Analyzed:** 06/04/2025

Lab Sample No.: AR1660CCC500 **Data File :** PP072634.D **Time Analyzed:** 20:01

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	5.654	5.552	5.752	387.680	500.000	-22.5
Aroclor-1016-2	5.676	5.574	5.774	423.760	500.000	-15.2
Aroclor-1016-3	5.738	5.636	5.836	412.440	500.000	-17.5
Aroclor-1016-4	5.835	5.734	5.934	425.010	500.000	-15.0
Aroclor-1016-5	6.128	6.027	6.227	418.170	500.000	-16.4
Aroclor-1260-1	7.245	7.147	7.347	409.990	500.000	-18.0
Aroclor-1260-2	7.499	7.401	7.601	395.070	500.000	-21.0
Aroclor-1260-3	7.857	7.760	7.960	400.920	500.000	-19.8
Aroclor-1260-4	8.081	7.985	8.185	389.290	500.000	-22.1
Aroclor-1260-5	8.400	8.303	8.503	417.960	500.000	-16.4
Decachlorobiphenyl	10.204	10.113	10.313	42.210	50.000	-15.6
Tetrachloro-m-xylene	4.503	4.396	4.596	45.870	50.000	-8.3

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q2198 **SAS No.:** Q2198 **SDG NO.:** Q2198

GC Column: ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 05/19/2025 05/19/2025

Client Sample No.: CCAL04 **Date Analyzed:** 06/04/2025

Lab Sample No.: AR1660CCC500 **Data File :** PP072634.D **Time Analyzed:** 20:01

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	4.878	4.777	4.977	492.870	500.000	-1.4
Aroclor-1016-2	4.896	4.795	4.995	501.180	500.000	0.2
Aroclor-1016-3	5.072	4.973	5.173	499.770	500.000	0.0
Aroclor-1016-4	5.115	5.015	5.215	490.820	500.000	-1.8
Aroclor-1016-5	5.328	5.229	5.429	569.180	500.000	13.8
Aroclor-1260-1	6.360	6.264	6.464	490.220	500.000	-2.0
Aroclor-1260-2	6.549	6.453	6.653	451.850	500.000	-9.6
Aroclor-1260-3	6.701	6.606	6.806	460.170	500.000	-8.0
Aroclor-1260-4	7.171	7.077	7.277	470.980	500.000	-5.8
Aroclor-1260-5	7.413	7.319	7.519	462.960	500.000	-7.4
Decachlorobiphenyl	8.812	8.723	8.923	49.720	50.000	-0.6
Tetrachloro-m-xylene	3.797	3.691	3.891	50.860	50.000	1.7

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q2198 **SAS No.:** Q2198 **SDG NO.:** Q2198

Continuing Calib Date: 06/05/2025 **Initial Calibration Date(s):** 05/19/2025 05/19/2025

Continuing Calib Time: 08:57 **Initial Calibration Time(s):** 09:42 18:25

GC Column: ZB-MR1 **ID:** 0.32 **(mm)**

COMPOUND		CCAL RT	AVG RT	RT WINDOW FROM	TO	DIFF RT
Aroclor-1016-1	(1)	5.65	5.65	5.55	5.75	0.00
Aroclor-1016-2	(2)	5.68	5.67	5.57	5.77	-0.01
Aroclor-1016-3	(3)	5.74	5.74	5.64	5.84	0.00
Aroclor-1016-4	(4)	5.83	5.83	5.73	5.93	0.00
Aroclor-1016-5	(5)	6.13	6.13	6.03	6.23	0.00
Aroclor-1260-1	(1)	7.24	7.25	7.15	7.35	0.01
Aroclor-1260-2	(2)	7.50	7.50	7.40	7.60	0.00
Aroclor-1260-3	(3)	7.86	7.86	7.76	7.96	0.00
Aroclor-1260-4	(4)	8.08	8.09	7.99	8.19	0.01
Aroclor-1260-5	(5)	8.40	8.40	8.30	8.50	0.00
Tetrachloro-m-xylene		4.50	4.50	4.40	4.60	0.00
Decachlorobiphenyl		10.20	10.21	10.11	10.31	0.01

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q2198 **SAS No.:** Q2198 **SDG NO.:** Q2198

Continuing Calib Date: 06/05/2025 **Initial Calibration Date(s):** 05/19/2025 05/19/2025

Continuing Calib Time: 08:57 **Initial Calibration Time(s):** 09:42 18:25

GC Column: ZB-MR2 **ID:** 0.32 **(mm)**

COMPOUND		CCAL RT	AVG RT	RT WINDOW FROM	TO	DIFF RT
Aroclor-1016-1	(1)	4.87	4.88	4.78	4.98	0.01
Aroclor-1016-2	(2)	4.89	4.90	4.80	5.00	0.01
Aroclor-1016-3	(3)	5.07	5.07	4.97	5.17	0.00
Aroclor-1016-4	(4)	5.11	5.12	5.02	5.22	0.01
Aroclor-1016-5	(5)	5.33	5.33	5.23	5.43	0.01
Aroclor-1260-1	(1)	6.36	6.36	6.26	6.46	0.00
Aroclor-1260-2	(2)	6.55	6.55	6.45	6.65	0.00
Aroclor-1260-3	(3)	6.70	6.71	6.61	6.81	0.01
Aroclor-1260-4	(4)	7.17	7.18	7.08	7.28	0.01
Aroclor-1260-5	(5)	7.41	7.42	7.32	7.52	0.01
Tetrachloro-m-xylene		3.79	3.79	3.69	3.89	0.00
Decachlorobiphenyl		8.81	8.82	8.72	8.92	0.01

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q2198 **SAS No.:** Q2198 **SDG NO.:** Q2198

GC Column: ZB-MR1 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 05/19/2025 05/19/2025

Client Sample No.: CCAL05 **Date Analyzed:** 06/05/2025

Lab Sample No.: AR1660CCC500 **Data File :** PP072647.D **Time Analyzed:** 08:57

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	5.653	5.552	5.752	428.270	500.000	-14.3
Aroclor-1016-2	5.675	5.574	5.774	474.780	500.000	-5.0
Aroclor-1016-3	5.737	5.636	5.836	471.220	500.000	-5.8
Aroclor-1016-4	5.833	5.734	5.934	485.870	500.000	-2.8
Aroclor-1016-5	6.127	6.027	6.227	479.940	500.000	-4.0
Aroclor-1260-1	7.243	7.147	7.347	483.520	500.000	-3.3
Aroclor-1260-2	7.497	7.401	7.601	468.460	500.000	-6.3
Aroclor-1260-3	7.855	7.760	7.960	469.730	500.000	-6.1
Aroclor-1260-4	8.079	7.985	8.185	456.510	500.000	-8.7
Aroclor-1260-5	8.397	8.303	8.503	477.030	500.000	-4.6
Decachlorobiphenyl	10.199	10.113	10.313	49.390	50.000	-1.2
Tetrachloro-m-xylene	4.501	4.396	4.596	48.870	50.000	-2.3

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q2198 **SAS No.:** Q2198 **SDG NO.:** Q2198

GC Column: ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 05/19/2025 05/19/2025

Client Sample No.: CCAL05 **Date Analyzed:** 06/05/2025

Lab Sample No.: AR1660CCC500 **Data File :** PP072647.D **Time Analyzed:** 08:57

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	4.874	4.777	4.977	494.320	500.000	-1.1
Aroclor-1016-2	4.893	4.795	4.995	509.090	500.000	1.8
Aroclor-1016-3	5.069	4.973	5.173	510.790	500.000	2.2
Aroclor-1016-4	5.111	5.015	5.215	512.100	500.000	2.4
Aroclor-1016-5	5.325	5.229	5.429	546.930	500.000	9.4
Aroclor-1260-1	6.356	6.264	6.464	538.020	500.000	7.6
Aroclor-1260-2	6.545	6.453	6.653	507.010	500.000	1.4
Aroclor-1260-3	6.697	6.606	6.806	552.270	500.000	10.5
Aroclor-1260-4	7.167	7.077	7.277	535.910	500.000	7.2
Aroclor-1260-5	7.409	7.319	7.519	522.040	500.000	4.4
Decachlorobiphenyl	8.807	8.723	8.923	54.390	50.000	8.8
Tetrachloro-m-xylene	3.794	3.691	3.891	51.560	50.000	3.1

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q2198 **SAS No.:** Q2198 **SDG NO.:** Q2198

Continuing Calib Date: 06/05/2025 **Initial Calibration Date(s):** 05/19/2025 05/19/2025

Continuing Calib Time: 14:51 **Initial Calibration Time(s):** 09:42 18:25

GC Column: ZB-MR1 **ID:** 0.32 **(mm)**

COMPOUND		CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Aroclor-1016-1	(1)	5.65	5.65	5.55	5.75	0.00
Aroclor-1016-2	(2)	5.67	5.67	5.57	5.77	0.00
Aroclor-1016-3	(3)	5.74	5.74	5.64	5.84	0.00
Aroclor-1016-4	(4)	5.83	5.83	5.73	5.93	0.00
Aroclor-1016-5	(5)	6.13	6.13	6.03	6.23	0.00
Aroclor-1260-1	(1)	7.24	7.25	7.15	7.35	0.01
Aroclor-1260-2	(2)	7.50	7.50	7.40	7.60	0.00
Aroclor-1260-3	(3)	7.86	7.86	7.76	7.96	0.00
Aroclor-1260-4	(4)	8.08	8.09	7.99	8.19	0.01
Aroclor-1260-5	(5)	8.40	8.40	8.30	8.50	0.00
Tetrachloro-m-xylene		4.50	4.50	4.40	4.60	0.00
Decachlorobiphenyl		10.20	10.21	10.11	10.31	0.01

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q2198 **SAS No.:** Q2198 **SDG NO.:** Q2198

Continuing Calib Date: 06/05/2025 **Initial Calibration Date(s):** 05/19/2025 05/19/2025

Continuing Calib Time: 14:51 **Initial Calibration Time(s):** 09:42 18:25

GC Column: ZB-MR2 **ID:** 0.32 **(mm)**

COMPOUND		CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Aroclor-1016-1	(1)	4.88	4.88	4.78	4.98	0.00
Aroclor-1016-2	(2)	4.90	4.90	4.80	5.00	0.01
Aroclor-1016-3	(3)	5.07	5.07	4.97	5.17	0.00
Aroclor-1016-4	(4)	5.11	5.12	5.02	5.22	0.01
Aroclor-1016-5	(5)	5.33	5.33	5.23	5.43	0.00
Aroclor-1260-1	(1)	6.36	6.36	6.26	6.46	0.00
Aroclor-1260-2	(2)	6.55	6.55	6.45	6.65	0.00
Aroclor-1260-3	(3)	6.70	6.71	6.61	6.81	0.01
Aroclor-1260-4	(4)	7.17	7.18	7.08	7.28	0.01
Aroclor-1260-5	(5)	7.41	7.42	7.32	7.52	0.01
Tetrachloro-m-xylene		3.80	3.79	3.69	3.89	-0.01
Decachlorobiphenyl		8.81	8.82	8.72	8.92	0.01

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q2198 **SAS No.:** Q2198 **SDG NO.:** Q2198

GC Column: ZB-MR1 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 05/19/2025 05/19/2025

Client Sample No.: CCAL06 **Date Analyzed:** 06/05/2025

Lab Sample No.: AR1660CCC500 **Data File :** PP072662.D **Time Analyzed:** 14:51

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	5.653	5.552	5.752	428.920	500.000	-14.2
Aroclor-1016-2	5.674	5.574	5.774	465.870	500.000	-6.8
Aroclor-1016-3	5.737	5.636	5.836	462.450	500.000	-7.5
Aroclor-1016-4	5.834	5.734	5.934	479.270	500.000	-4.1
Aroclor-1016-5	6.126	6.027	6.227	475.120	500.000	-5.0
Aroclor-1260-1	7.244	7.147	7.347	491.580	500.000	-1.7
Aroclor-1260-2	7.497	7.401	7.601	476.450	500.000	-4.7
Aroclor-1260-3	7.856	7.760	7.960	488.700	500.000	-2.3
Aroclor-1260-4	8.080	7.985	8.185	488.300	500.000	-2.3
Aroclor-1260-5	8.397	8.303	8.503	492.150	500.000	-1.6
Decachlorobiphenyl	10.201	10.113	10.313	50.470	50.000	0.9
Tetrachloro-m-xylene	4.501	4.396	4.596	47.830	50.000	-4.3

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q2198 **SAS No.:** Q2198 **SDG NO.:** Q2198

GC Column: ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 05/19/2025 05/19/2025

Client Sample No.: CCAL06 **Date Analyzed:** 06/05/2025

Lab Sample No.: AR1660CCC500 **Data File :** PP072662.D **Time Analyzed:** 14:51

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	4.877	4.777	4.977	497.640	500.000	-0.5
Aroclor-1016-2	4.895	4.795	4.995	514.780	500.000	3.0
Aroclor-1016-3	5.072	4.973	5.173	512.490	500.000	2.5
Aroclor-1016-4	5.114	5.015	5.215	510.570	500.000	2.1
Aroclor-1016-5	5.327	5.229	5.429	567.690	500.000	13.5
Aroclor-1260-1	6.360	6.264	6.464	541.730	500.000	8.3
Aroclor-1260-2	6.547	6.453	6.653	505.820	500.000	1.2
Aroclor-1260-3	6.699	6.606	6.806	538.290	500.000	7.7
Aroclor-1260-4	7.170	7.077	7.277	540.420	500.000	8.1
Aroclor-1260-5	7.413	7.319	7.519	540.930	500.000	8.2
Decachlorobiphenyl	8.811	8.723	8.923	55.730	50.000	11.5
Tetrachloro-m-xylene	3.796	3.691	3.891	51.930	50.000	3.9

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q2198 **SAS No.:** Q2198 **SDG NO.:** Q2198

Continuing Calib Date: 06/06/2025 **Initial Calibration Date(s):** 05/19/2025 05/19/2025

Continuing Calib Time: 17:01 **Initial Calibration Time(s):** 09:42 18:25

GC Column: ZB-MR1 **ID:** 0.32 **(mm)**

COMPOUND		CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Aroclor-1016-1	(1)	5.65	5.65	5.55	5.75	0.00
Aroclor-1016-2	(2)	5.67	5.67	5.57	5.77	0.00
Aroclor-1016-3	(3)	5.74	5.74	5.64	5.84	0.00
Aroclor-1016-4	(4)	5.83	5.83	5.73	5.93	0.00
Aroclor-1016-5	(5)	6.13	6.13	6.03	6.23	0.00
Aroclor-1260-1	(1)	7.24	7.25	7.15	7.35	0.01
Aroclor-1260-2	(2)	7.50	7.50	7.40	7.60	0.00
Aroclor-1260-3	(3)	7.86	7.86	7.76	7.96	0.00
Aroclor-1260-4	(4)	8.08	8.09	7.99	8.19	0.01
Aroclor-1260-5	(5)	8.40	8.40	8.30	8.50	0.00
Tetrachloro-m-xylene		4.50	4.50	4.40	4.60	0.00
Decachlorobiphenyl		10.20	10.21	10.11	10.31	0.01

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q2198 **SAS No.:** Q2198 **SDG NO.:** Q2198

Continuing Calib Date: 06/06/2025 **Initial Calibration Date(s):** 05/19/2025 05/19/2025

Continuing Calib Time: 17:01 **Initial Calibration Time(s):** 09:42 18:25

GC Column: ZB-MR2 **ID:** 0.32 **(mm)**

COMPOUND		CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Aroclor-1016-1	(1)	4.88	4.88	4.78	4.98	0.00
Aroclor-1016-2	(2)	4.90	4.90	4.80	5.00	0.00
Aroclor-1016-3	(3)	5.07	5.07	4.97	5.17	0.00
Aroclor-1016-4	(4)	5.11	5.12	5.02	5.22	0.01
Aroclor-1016-5	(5)	5.33	5.33	5.23	5.43	0.00
Aroclor-1260-1	(1)	6.36	6.36	6.26	6.46	0.00
Aroclor-1260-2	(2)	6.55	6.55	6.45	6.65	0.00
Aroclor-1260-3	(3)	6.70	6.71	6.61	6.81	0.01
Aroclor-1260-4	(4)	7.17	7.18	7.08	7.28	0.01
Aroclor-1260-5	(5)	7.41	7.42	7.32	7.52	0.01
Tetrachloro-m-xylene		3.80	3.79	3.69	3.89	-0.01
Decachlorobiphenyl		8.81	8.82	8.72	8.92	0.01

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q2198 **SAS No.:** Q2198 **SDG NO.:** Q2198

GC Column: ZB-MR1 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 05/19/2025 05/19/2025

Client Sample No.: CCAL07 **Date Analyzed:** 06/06/2025

Lab Sample No.: AR1660CCC500 **Data File :** PP072698.D **Time Analyzed:** 17:01

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	5.652	5.552	5.752	417.960	500.000	-16.4
Aroclor-1016-2	5.674	5.574	5.774	456.000	500.000	-8.8
Aroclor-1016-3	5.736	5.636	5.836	456.070	500.000	-8.8
Aroclor-1016-4	5.834	5.734	5.934	479.790	500.000	-4.0
Aroclor-1016-5	6.126	6.027	6.227	447.650	500.000	-10.5
Aroclor-1260-1	7.243	7.147	7.347	401.130	500.000	-19.8
Aroclor-1260-2	7.496	7.401	7.601	400.520	500.000	-19.9
Aroclor-1260-3	7.855	7.760	7.960	404.370	500.000	-19.1
Aroclor-1260-4	8.077	7.985	8.185	404.120	500.000	-19.2
Aroclor-1260-5	8.397	8.303	8.503	405.630	500.000	-18.9
Decachlorobiphenyl	10.200	10.113	10.313	42.560	50.000	-14.9
Tetrachloro-m-xylene	4.500	4.396	4.596	47.080	50.000	-5.8

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q2198 **SAS No.:** Q2198 **SDG NO.:** Q2198

GC Column: ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 05/19/2025 05/19/2025

Client Sample No.: CCAL07 **Date Analyzed:** 06/06/2025

Lab Sample No.: AR1660CCC500 **Data File :** PP072698.D **Time Analyzed:** 17:01

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	4.877	4.777	4.977	493.320	500.000	-1.3
Aroclor-1016-2	4.896	4.795	4.995	506.140	500.000	1.2
Aroclor-1016-3	5.072	4.973	5.173	517.690	500.000	3.5
Aroclor-1016-4	5.114	5.015	5.215	525.930	500.000	5.2
Aroclor-1016-5	5.328	5.229	5.429	520.380	500.000	4.1
Aroclor-1260-1	6.360	6.264	6.464	493.380	500.000	-1.3
Aroclor-1260-2	6.549	6.453	6.653	454.650	500.000	-9.1
Aroclor-1260-3	6.701	6.606	6.806	476.990	500.000	-4.6
Aroclor-1260-4	7.171	7.077	7.277	458.520	500.000	-8.3
Aroclor-1260-5	7.414	7.319	7.519	441.700	500.000	-11.7
Decachlorobiphenyl	8.813	8.723	8.923	49.420	50.000	-1.2
Tetrachloro-m-xylene	3.796	3.691	3.891	51.110	50.000	2.2

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q2198 **SAS No.:** Q2198 **SDG NO.:** Q2198

Continuing Calib Date: 06/06/2025 **Initial Calibration Date(s):** 05/19/2025 05/19/2025

Continuing Calib Time: 21:40 **Initial Calibration Time(s):** 09:42 18:25

GC Column: ZB-MR1 **ID:** 0.32 **(mm)**

COMPOUND		CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Aroclor-1016-1	(1)	5.66	5.65	5.55	5.75	-0.01
Aroclor-1016-2	(2)	5.68	5.67	5.57	5.77	-0.01
Aroclor-1016-3	(3)	5.74	5.74	5.64	5.84	0.00
Aroclor-1016-4	(4)	5.84	5.83	5.73	5.93	-0.01
Aroclor-1016-5	(5)	6.13	6.13	6.03	6.23	0.00
Aroclor-1260-1	(1)	7.25	7.25	7.15	7.35	0.01
Aroclor-1260-2	(2)	7.50	7.50	7.40	7.60	0.00
Aroclor-1260-3	(3)	7.86	7.86	7.76	7.96	0.00
Aroclor-1260-4	(4)	8.08	8.09	7.99	8.19	0.01
Aroclor-1260-5	(5)	8.40	8.40	8.30	8.50	0.00
Tetrachloro-m-xylene		4.50	4.50	4.40	4.60	0.00
Decachlorobiphenyl		10.20	10.21	10.11	10.31	0.01

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q2198 **SAS No.:** Q2198 **SDG NO.:** Q2198

Continuing Calib Date: 06/06/2025 **Initial Calibration Date(s):** 05/19/2025 05/19/2025

Continuing Calib Time: 21:40 **Initial Calibration Time(s):** 09:42 18:25

GC Column: ZB-MR2 **ID:** 0.32 **(mm)**

COMPOUND		CCAL RT	AVG RT	RT WINDOW FROM	TO	DIFF RT
Aroclor-1016-1	(1)	4.88	4.88	4.78	4.98	0.00
Aroclor-1016-2	(2)	4.90	4.90	4.80	5.00	0.01
Aroclor-1016-3	(3)	5.07	5.07	4.97	5.17	0.00
Aroclor-1016-4	(4)	5.11	5.12	5.02	5.22	0.01
Aroclor-1016-5	(5)	5.33	5.33	5.23	5.43	0.00
Aroclor-1260-1	(1)	6.36	6.36	6.26	6.46	0.00
Aroclor-1260-2	(2)	6.55	6.55	6.45	6.65	0.00
Aroclor-1260-3	(3)	6.70	6.71	6.61	6.81	0.01
Aroclor-1260-4	(4)	7.17	7.18	7.08	7.28	0.01
Aroclor-1260-5	(5)	7.41	7.42	7.32	7.52	0.01
Tetrachloro-m-xylene		3.80	3.79	3.69	3.89	-0.01
Decachlorobiphenyl		8.81	8.82	8.72	8.92	0.01

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q2198 **SAS No.:** Q2198 **SDG NO.:** Q2198

GC Column: ZB-MR1 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 05/19/2025 05/19/2025

Client Sample No.: CCAL08 **Date Analyzed:** 06/06/2025

Lab Sample No.: AR1660CCC500 **Data File :** PP072713.D **Time Analyzed:** 21:40

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	5.655	5.552	5.752	423.620	500.000	-15.3
Aroclor-1016-2	5.676	5.574	5.774	461.250	500.000	-7.8
Aroclor-1016-3	5.738	5.636	5.836	461.460	500.000	-7.7
Aroclor-1016-4	5.835	5.734	5.934	477.850	500.000	-4.4
Aroclor-1016-5	6.128	6.027	6.227	471.130	500.000	-5.8
Aroclor-1260-1	7.245	7.147	7.347	464.990	500.000	-7.0
Aroclor-1260-2	7.499	7.401	7.601	452.750	500.000	-9.5
Aroclor-1260-3	7.857	7.760	7.960	448.410	500.000	-10.3
Aroclor-1260-4	8.081	7.985	8.185	439.380	500.000	-12.1
Aroclor-1260-5	8.399	8.303	8.503	450.860	500.000	-9.8
Decachlorobiphenyl	10.203	10.113	10.313	46.120	50.000	-7.8
Tetrachloro-m-xylene	4.503	4.396	4.596	47.490	50.000	-5.0

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q2198 **SAS No.:** Q2198 **SDG NO.:** Q2198

GC Column: ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 05/19/2025 05/19/2025

Client Sample No.: CCAL08 **Date Analyzed:** 06/06/2025

Lab Sample No.: AR1660CCC500 **Data File :** PP072713.D **Time Analyzed:** 21:40

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	4.877	4.777	4.977	512.610	500.000	2.5
Aroclor-1016-2	4.895	4.795	4.995	527.060	500.000	5.4
Aroclor-1016-3	5.071	4.973	5.173	530.630	500.000	6.1
Aroclor-1016-4	5.113	5.015	5.215	532.950	500.000	6.6
Aroclor-1016-5	5.327	5.229	5.429	563.590	500.000	12.7
Aroclor-1260-1	6.358	6.264	6.464	526.630	500.000	5.3
Aroclor-1260-2	6.547	6.453	6.653	501.840	500.000	0.4
Aroclor-1260-3	6.699	6.606	6.806	544.320	500.000	8.9
Aroclor-1260-4	7.169	7.077	7.277	543.610	500.000	8.7
Aroclor-1260-5	7.412	7.319	7.519	535.710	500.000	7.1
Decachlorobiphenyl	8.810	8.723	8.923	54.260	50.000	8.5
Tetrachloro-m-xylene	3.796	3.691	3.891	54.070	50.000	8.1

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q2198 **SAS No.:** Q2198 **SDG NO.:** Q2198

Continuing Calib Date: 06/09/2025 **Initial Calibration Date(s):** 05/19/2025 05/19/2025

Continuing Calib Time: 09:22 **Initial Calibration Time(s):** 09:42 18:25

GC Column: ZB-MR1 **ID:** 0.32 **(mm)**

COMPOUND		CCAL RT	AVG RT	RT WINDOW FROM	TO	DIFF RT
Aroclor-1016-1	(1)	5.65	5.65	5.55	5.75	0.00
Aroclor-1016-2	(2)	5.67	5.67	5.57	5.77	0.00
Aroclor-1016-3	(3)	5.73	5.74	5.64	5.84	0.01
Aroclor-1016-4	(4)	5.83	5.83	5.73	5.93	0.00
Aroclor-1016-5	(5)	6.12	6.13	6.03	6.23	0.01
Aroclor-1260-1	(1)	7.24	7.25	7.15	7.35	0.01
Aroclor-1260-2	(2)	7.49	7.50	7.40	7.60	0.01
Aroclor-1260-3	(3)	7.85	7.86	7.76	7.96	0.01
Aroclor-1260-4	(4)	8.08	8.09	7.99	8.19	0.01
Aroclor-1260-5	(5)	8.40	8.40	8.30	8.50	0.00
Tetrachloro-m-xylene		4.50	4.50	4.40	4.60	0.00
Decachlorobiphenyl		10.20	10.21	10.11	10.31	0.01

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q2198 **SAS No.:** Q2198 **SDG NO.:** Q2198

Continuing Calib Date: 06/09/2025 **Initial Calibration Date(s):** 05/19/2025 05/19/2025

Continuing Calib Time: 09:22 **Initial Calibration Time(s):** 09:42 18:25

GC Column: ZB-MR2 **ID:** 0.32 **(mm)**

COMPOUND		CCAL RT	AVG RT	RT WINDOW FROM	TO	DIFF RT
Aroclor-1016-1	(1)	4.87	4.88	4.78	4.98	0.01
Aroclor-1016-2	(2)	4.89	4.90	4.80	5.00	0.01
Aroclor-1016-3	(3)	5.07	5.07	4.97	5.17	0.00
Aroclor-1016-4	(4)	5.11	5.12	5.02	5.22	0.01
Aroclor-1016-5	(5)	5.32	5.33	5.23	5.43	0.01
Aroclor-1260-1	(1)	6.36	6.36	6.26	6.46	0.00
Aroclor-1260-2	(2)	6.54	6.55	6.45	6.65	0.01
Aroclor-1260-3	(3)	6.70	6.71	6.61	6.81	0.01
Aroclor-1260-4	(4)	7.17	7.18	7.08	7.28	0.01
Aroclor-1260-5	(5)	7.41	7.42	7.32	7.52	0.01
Tetrachloro-m-xylene		3.79	3.79	3.69	3.89	0.00
Decachlorobiphenyl		8.81	8.82	8.72	8.92	0.01

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q2198 **SAS No.:** Q2198 **SDG NO.:** Q2198

GC Column: ZB-MR1 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 05/19/2025 05/19/2025

Client Sample No.: CCAL09 **Date Analyzed:** 06/09/2025

Lab Sample No.: AR1660CCC500 **Data File :** PP072732.D **Time Analyzed:** 09:22

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	5.650	5.552	5.752	466.900	500.000	-6.6
Aroclor-1016-2	5.671	5.574	5.774	500.040	500.000	0.0
Aroclor-1016-3	5.733	5.636	5.836	501.080	500.000	0.2
Aroclor-1016-4	5.831	5.734	5.934	527.290	500.000	5.5
Aroclor-1016-5	6.123	6.027	6.227	407.640	500.000	-18.5
Aroclor-1260-1	7.241	7.147	7.347	486.440	500.000	-2.7
Aroclor-1260-2	7.494	7.401	7.601	485.810	500.000	-2.8
Aroclor-1260-3	7.852	7.760	7.960	504.460	500.000	0.9
Aroclor-1260-4	8.077	7.985	8.185	501.920	500.000	0.4
Aroclor-1260-5	8.395	8.303	8.503	534.190	500.000	6.8
Decachlorobiphenyl	10.196	10.113	10.313	52.060	50.000	4.1
Tetrachloro-m-xylene	4.498	4.396	4.596	53.360	50.000	6.7

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q2198 **SAS No.:** Q2198 **SDG NO.:** Q2198

GC Column: ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 05/19/2025 05/19/2025

Client Sample No.: CCAL09 **Date Analyzed:** 06/09/2025

Lab Sample No.: AR1660CCC500 **Data File :** PP072732.D **Time Analyzed:** 09:22

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	4.874	4.777	4.977	512.090	500.000	2.4
Aroclor-1016-2	4.892	4.795	4.995	526.060	500.000	5.2
Aroclor-1016-3	5.068	4.973	5.173	531.050	500.000	6.2
Aroclor-1016-4	5.110	5.015	5.215	536.050	500.000	7.2
Aroclor-1016-5	5.324	5.229	5.429	537.990	500.000	7.6
Aroclor-1260-1	6.355	6.264	6.464	537.850	500.000	7.6
Aroclor-1260-2	6.544	6.453	6.653	517.950	500.000	3.6
Aroclor-1260-3	6.696	6.606	6.806	542.980	500.000	8.6
Aroclor-1260-4	7.167	7.077	7.277	547.180	500.000	9.4
Aroclor-1260-5	7.409	7.319	7.519	551.870	500.000	10.4
Decachlorobiphenyl	8.806	8.723	8.923	55.450	50.000	10.9
Tetrachloro-m-xylene	3.793	3.691	3.891	53.430	50.000	6.9

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Fax : 908 789 8922

CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q2198 **SAS No.:** Q2198 **SDG NO.:** Q2198

Continuing Calib Date: 06/09/2025 **Initial Calibration Date(s):** 05/19/2025 05/19/2025

Continuing Calib Time: 15:18 **Initial Calibration Time(s):** 09:42 18:25

GC Column: ZB-MR1 **ID:** 0.32 **(mm)**

COMPOUND		CCAL RT	AVG RT	RT WINDOW FROM	TO	DIFF RT
Aroclor-1016-1	(1)	5.65	5.65	5.55	5.75	0.00
Aroclor-1016-2	(2)	5.67	5.67	5.57	5.77	0.00
Aroclor-1016-3	(3)	5.74	5.74	5.64	5.84	0.00
Aroclor-1016-4	(4)	5.83	5.83	5.73	5.93	0.00
Aroclor-1016-5	(5)	6.13	6.13	6.03	6.23	0.00
Aroclor-1260-1	(1)	7.24	7.25	7.15	7.35	0.01
Aroclor-1260-2	(2)	7.50	7.50	7.40	7.60	0.00
Aroclor-1260-3	(3)	7.86	7.86	7.76	7.96	0.00
Aroclor-1260-4	(4)	8.08	8.09	7.99	8.19	0.01
Aroclor-1260-5	(5)	8.40	8.40	8.30	8.50	0.00
Tetrachloro-m-xylene		4.50	4.50	4.40	4.60	0.00
Decachlorobiphenyl		10.20	10.21	10.11	10.31	0.01

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q2198 **SAS No.:** Q2198 **SDG NO.:** Q2198

Continuing Calib Date: 06/09/2025 **Initial Calibration Date(s):** 05/19/2025 05/19/2025

Continuing Calib Time: 15:18 **Initial Calibration Time(s):** 09:42 18:25

GC Column: ZB-MR2 **ID:** 0.32 **(mm)**

COMPOUND		CCAL RT	AVG RT	RT WINDOW FROM	TO	DIFF RT
Aroclor-1016-1	(1)	4.87	4.88	4.78	4.98	0.01
Aroclor-1016-2	(2)	4.89	4.90	4.80	5.00	0.01
Aroclor-1016-3	(3)	5.07	5.07	4.97	5.17	0.00
Aroclor-1016-4	(4)	5.11	5.12	5.02	5.22	0.01
Aroclor-1016-5	(5)	5.32	5.33	5.23	5.43	0.01
Aroclor-1260-1	(1)	6.36	6.36	6.26	6.46	0.00
Aroclor-1260-2	(2)	6.55	6.55	6.45	6.65	0.00
Aroclor-1260-3	(3)	6.70	6.71	6.61	6.81	0.01
Aroclor-1260-4	(4)	7.17	7.18	7.08	7.28	0.01
Aroclor-1260-5	(5)	7.41	7.42	7.32	7.52	0.01
Tetrachloro-m-xylene		3.79	3.79	3.69	3.89	0.00
Decachlorobiphenyl		8.81	8.82	8.72	8.92	0.01

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q2198 **SAS No.:** Q2198 **SDG NO.:** Q2198

GC Column: ZB-MR1 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 05/19/2025 05/19/2025

Client Sample No.: CCAL10 **Date Analyzed:** 06/09/2025

Lab Sample No.: AR1660CCC500 **Data File :** PP072748.D **Time Analyzed:** 15:18

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	5.652	5.552	5.752	452.290	500.000	-9.5
Aroclor-1016-2	5.674	5.574	5.774	498.820	500.000	-0.2
Aroclor-1016-3	5.736	5.636	5.836	493.520	500.000	-1.3
Aroclor-1016-4	5.833	5.734	5.934	510.500	500.000	2.1
Aroclor-1016-5	6.126	6.027	6.227	501.700	500.000	0.3
Aroclor-1260-1	7.243	7.147	7.347	479.450	500.000	-4.1
Aroclor-1260-2	7.497	7.401	7.601	470.330	500.000	-5.9
Aroclor-1260-3	7.855	7.760	7.960	495.010	500.000	-1.0
Aroclor-1260-4	8.079	7.985	8.185	484.380	500.000	-3.1
Aroclor-1260-5	8.397	8.303	8.503	505.090	500.000	1.0
Decachlorobiphenyl	10.198	10.113	10.313	51.700	50.000	3.4
Tetrachloro-m-xylene	4.500	4.396	4.596	52.050	50.000	4.1

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q2198 **SAS No.:** Q2198 **SDG NO.:** Q2198

GC Column: ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 05/19/2025 05/19/2025

Client Sample No.: CCAL10 **Date Analyzed:** 06/09/2025

Lab Sample No.: AR1660CCC500 **Data File :** PP072748.D **Time Analyzed:** 15:18

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	4.874	4.777	4.977	531.190	500.000	6.2
Aroclor-1016-2	4.892	4.795	4.995	544.200	500.000	8.8
Aroclor-1016-3	5.069	4.973	5.173	547.570	500.000	9.5
Aroclor-1016-4	5.110	5.015	5.215	552.240	500.000	10.4
Aroclor-1016-5	5.324	5.229	5.429	544.880	500.000	9.0
Aroclor-1260-1	6.356	6.264	6.464	546.980	500.000	9.4
Aroclor-1260-2	6.546	6.453	6.653	514.030	500.000	2.8
Aroclor-1260-3	6.697	6.606	6.806	538.170	500.000	7.6
Aroclor-1260-4	7.167	7.077	7.277	541.700	500.000	8.3
Aroclor-1260-5	7.410	7.319	7.519	548.420	500.000	9.7
Decachlorobiphenyl	8.807	8.723	8.923	55.900	50.000	11.8
Tetrachloro-m-xylene	3.793	3.691	3.891	54.700	50.000	9.4

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Fax : 908 789 8922

Analytical Sequence

Client: Portal Partners Tri-Venture **SDG No.:** Q2198

Project: Amtrak Sawtooth Bridges 2025 **Instrument ID:** ECD_O

GC Column: ZB-MR1 **ID:** 0.32 (mm) **Inst. Calib. Date(s):** 05/14/2025 05/14/2025

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	DATAFILE	DCB RT #	TCX RT #
I.BLK	I.BLK	05/14/2025	17:01	PO111057.D	8.72	3.68
AR1660ICC1000	AR1660ICC1000	05/14/2025	17:19	PO111058.D	8.73	3.68
AR1660ICC750	AR1660ICC750	05/14/2025	17:38	PO111059.D	8.73	3.68
AR1660ICC500	AR1660ICC500	05/14/2025	17:56	PO111060.D	8.72	3.68
AR1660ICC250	AR1660ICC250	05/14/2025	18:15	PO111061.D	8.72	3.68
AR1660ICC050	AR1660ICC050	05/14/2025	18:33	PO111062.D	8.72	3.68
AR1221ICC500	AR1221ICC500	05/14/2025	18:51	PO111063.D	8.72	3.68
AR1232ICC500	AR1232ICC500	05/14/2025	19:10	PO111064.D	8.72	3.68
AR1242ICC1000	AR1242ICC1000	05/14/2025	19:28	PO111065.D	8.72	3.68
AR1242ICC750	AR1242ICC750	05/14/2025	19:46	PO111066.D	8.72	3.68
AR1242ICC500	AR1242ICC500	05/14/2025	20:05	PO111067.D	8.73	3.68
AR1242ICC250	AR1242ICC250	05/14/2025	20:23	PO111068.D	8.72	3.68
AR1242ICC050	AR1242ICC050	05/14/2025	20:41	PO111069.D	8.72	3.68
AR1248ICC1000	AR1248ICC1000	05/14/2025	21:00	PO111070.D	8.72	3.68
AR1248ICC750	AR1248ICC750	05/14/2025	21:18	PO111071.D	8.72	3.68
AR1248ICC500	AR1248ICC500	05/14/2025	21:37	PO111072.D	8.72	3.68
AR1248ICC250	AR1248ICC250	05/14/2025	21:54	PO111073.D	8.72	3.68
AR1248ICC050	AR1248ICC050	05/14/2025	22:12	PO111074.D	8.72	3.68
AR1254ICC1000	AR1254ICC1000	05/14/2025	22:31	PO111075.D	8.73	3.68
AR1254ICC750	AR1254ICC750	05/14/2025	22:49	PO111076.D	8.73	3.68
AR1254ICC500	AR1254ICC500	05/14/2025	23:06	PO111077.D	8.72	3.68
AR1254ICC250	AR1254ICC250	05/14/2025	23:25	PO111078.D	8.72	3.68
AR1254ICC050	AR1254ICC050	05/14/2025	23:43	PO111079.D	8.72	3.68
AR1262ICC500	AR1262ICC500	05/15/2025	00:01	PO111080.D	8.73	3.68
AR1268ICC1000	AR1268ICC1000	05/15/2025	00:19	PO111081.D	8.72	3.68
AR1268ICC750	AR1268ICC750	05/15/2025	00:37	PO111082.D	8.72	3.68
AR1268ICC500	AR1268ICC500	05/15/2025	00:56	PO111083.D	8.73	3.68
AR1268ICC250	AR1268ICC250	05/15/2025	01:14	PO111084.D	8.72	3.68
AR1268ICC050	AR1268ICC050	05/15/2025	01:31	PO111085.D	8.72	3.68
AR1660CCC500	AR1660CCC500	06/04/2025	15:23	PO111468.D	8.72	3.68
I.BLK	I.BLK	06/04/2025	16:35	PO111472.D	8.71	3.68
B-207-SB02	Q2198-03	06/04/2025	16:52	PO111473.D	8.71	3.68
AR1660CCC500	AR1660CCC500	06/04/2025	18:57	PO111477.D	8.71	3.68
I.BLK	I.BLK	06/04/2025	20:27	PO111481.D	8.72	3.68
I.BLK	I.BLK	05/19/2025	09:26	PP072163.D	10.21	4.50
AR1660ICC1000	AR1660ICC1000	05/19/2025	09:42	PP072164.D	10.21	4.50
AR1660ICC750	AR1660ICC750	05/19/2025	09:59	PP072165.D	10.21	4.50
AR1660ICC500	AR1660ICC500	05/19/2025	10:15	PP072166.D	10.21	4.50
AR1660ICC250	AR1660ICC250	05/19/2025	10:32	PP072167.D	10.21	4.50
AR1660ICC050	AR1660ICC050	05/19/2025	10:48	PP072168.D	10.21	4.50
AR1221ICC500	AR1221ICC500	05/19/2025	11:05	PP072169.D	10.21	4.50
AR1232ICC1000	AR1232ICC1000	05/19/2025	11:21	PP072170.D	10.21	4.50

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Analytical Sequence

AR1232ICC750	AR1232ICC750	05/19/2025	11:38	PP072171.D	10.22	4.50
AR1232ICC500	AR1232ICC500	05/19/2025	11:54	PP072172.D	10.21	4.50
AR1232ICC250	AR1232ICC250	05/19/2025	12:10	PP072173.D	10.22	4.50
AR1232ICC050	AR1232ICC050	05/19/2025	12:27	PP072174.D	10.21	4.50
AR1242ICC1000	AR1242ICC1000	05/19/2025	12:43	PP072175.D	10.22	4.50
AR1242ICC750	AR1242ICC750	05/19/2025	12:59	PP072176.D	10.22	4.50
AR1242ICC500	AR1242ICC500	05/19/2025	13:15	PP072177.D	10.22	4.51
AR1242ICC250	AR1242ICC250	05/19/2025	13:32	PP072178.D	10.21	4.50
AR1242ICC050	AR1242ICC050	05/19/2025	13:48	PP072179.D	10.22	4.50
AR1248ICC1000	AR1248ICC1000	05/19/2025	14:04	PP072180.D	10.22	4.51
AR1248ICC750	AR1248ICC750	05/19/2025	14:20	PP072181.D	10.21	4.50
AR1248ICC500	AR1248ICC500	05/19/2025	14:37	PP072182.D	10.22	4.50
AR1248ICC250	AR1248ICC250	05/19/2025	14:53	PP072183.D	10.22	4.50
AR1248ICC050	AR1248ICC050	05/19/2025	15:25	PP072184.D	10.21	4.50
AR1254ICC1000	AR1254ICC1000	05/19/2025	15:42	PP072185.D	10.22	4.50
AR1254ICC750	AR1254ICC750	05/19/2025	15:58	PP072186.D	10.22	4.50
AR1254ICC500	AR1254ICC500	05/19/2025	16:14	PP072187.D	10.22	4.50
AR1254ICC250	AR1254ICC250	05/19/2025	16:31	PP072188.D	10.22	4.50
AR1254ICC050	AR1254ICC050	05/19/2025	16:47	PP072189.D	10.22	4.50
AR1262ICC500	AR1262ICC500	05/19/2025	17:03	PP072190.D	10.22	4.50
AR1268ICC1000	AR1268ICC1000	05/19/2025	17:20	PP072191.D	10.22	4.50
AR1268ICC750	AR1268ICC750	05/19/2025	17:36	PP072192.D	10.22	4.51
AR1268ICC500	AR1268ICC500	05/19/2025	17:53	PP072193.D	10.22	4.50
AR1268ICC250	AR1268ICC250	05/19/2025	18:09	PP072194.D	10.21	4.50
AR1268ICC050	AR1268ICC050	05/19/2025	18:25	PP072195.D	10.22	4.50
AR1660CCC500	AR1660CCC500	06/04/2025	14:51	PP072619.D	10.20	4.50
I.BLK	I.BLK	06/04/2025	15:56	PP072623.D	10.20	4.50
PB168288BL	PB168288BL	06/04/2025	16:13	PP072624.D	10.20	4.50
OK-01-060325MS	Q2195-01MS	06/04/2025	18:07	PP072631.D	10.20	4.50
OK-01-060325MSD	Q2195-01MSD	06/04/2025	18:23	PP072632.D	10.21	4.50
B-202-SB02	Q2198-01	06/04/2025	18:40	PP072633.D	10.20	4.50
AR1660CCC500	AR1660CCC500	06/04/2025	20:01	PP072634.D	10.20	4.50
I.BLK	I.BLK	06/04/2025	21:07	PP072638.D	10.20	4.50
AR1660CCC500	AR1660CCC500	06/05/2025	08:57	PP072647.D	10.20	4.50
I.BLK	I.BLK	06/05/2025	10:02	PP072651.D	10.20	4.50
PB168288BS	PB168288BS	06/05/2025	10:35	PP072653.D	10.20	4.50
AR1660CCC500	AR1660CCC500	06/05/2025	14:51	PP072662.D	10.20	4.50
I.BLK	I.BLK	06/05/2025	15:57	PP072666.D	10.21	4.51
AR1660CCC500	AR1660CCC500	06/06/2025	17:01	PP072698.D	10.20	4.50
I.BLK	I.BLK	06/06/2025	18:07	PP072702.D	10.20	4.50
PB168325BL	PB168325BL	06/06/2025	19:46	PP072708.D	10.21	4.50
B-202-GW01	Q2198-05	06/06/2025	20:35	PP072711.D	10.20	4.50
AR1660CCC500	AR1660CCC500	06/06/2025	21:40	PP072713.D	10.20	4.50
I.BLK	I.BLK	06/06/2025	23:19	PP072717.D	10.20	4.50
AR1660CCC500	AR1660CCC500	06/09/2025	09:22	PP072732.D	10.20	4.50
I.BLK	I.BLK	06/09/2025	10:59	PP072737.D	10.20	4.50
PB168325BS	PB168325BS	06/09/2025	11:17	PP072738.D	10.20	4.50
PB168325BSD	PB168325BSD	06/09/2025	11:34	PP072739.D	10.20	4.50
AR1660CCC500	AR1660CCC500	06/09/2025	15:18	PP072748.D	10.20	4.50
I.BLK	I.BLK	06/09/2025	16:39	PP072753.D	10.20	4.50

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284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Analytical Sequence

Client: Portal Partners Tri-Venture **SDG No.:** Q2198

Project: Amtrak Sawtooth Bridges 2025 **Instrument ID:** ECD_O

GC Column: ZB-MR2 **ID:** 0.32 (mm) **Inst. Calib. Date(s):** 05/14/2025 05/14/2025

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	DATAFILE	DCB RT #	TCX RT #
I.BLK	I.BLK	05/14/2025	17:01	PO111057.D	8.67	3.68
AR1660ICC1000	AR1660ICC1000	05/14/2025	17:19	PO111058.D	8.67	3.68
AR1660ICC750	AR1660ICC750	05/14/2025	17:38	PO111059.D	8.67	3.68
AR1660ICC500	AR1660ICC500	05/14/2025	17:56	PO111060.D	8.67	3.68
AR1660ICC250	AR1660ICC250	05/14/2025	18:15	PO111061.D	8.68	3.68
AR1660ICC050	AR1660ICC050	05/14/2025	18:33	PO111062.D	8.67	3.68
AR1221ICC500	AR1221ICC500	05/14/2025	18:51	PO111063.D	8.67	3.68
AR1232ICC500	AR1232ICC500	05/14/2025	19:10	PO111064.D	8.68	3.68
AR1242ICC1000	AR1242ICC1000	05/14/2025	19:28	PO111065.D	8.67	3.68
AR1242ICC750	AR1242ICC750	05/14/2025	19:46	PO111066.D	8.67	3.68
AR1242ICC500	AR1242ICC500	05/14/2025	20:05	PO111067.D	8.67	3.68
AR1242ICC250	AR1242ICC250	05/14/2025	20:23	PO111068.D	8.67	3.68
AR1242ICC050	AR1242ICC050	05/14/2025	20:41	PO111069.D	8.67	3.68
AR1248ICC1000	AR1248ICC1000	05/14/2025	21:00	PO111070.D	8.67	3.68
AR1248ICC750	AR1248ICC750	05/14/2025	21:18	PO111071.D	8.67	3.68
AR1248ICC500	AR1248ICC500	05/14/2025	21:37	PO111072.D	8.68	3.68
AR1248ICC250	AR1248ICC250	05/14/2025	21:54	PO111073.D	8.69	3.69
AR1248ICC050	AR1248ICC050	05/14/2025	22:12	PO111074.D	8.67	3.68
AR1254ICC1000	AR1254ICC1000	05/14/2025	22:31	PO111075.D	8.67	3.68
AR1254ICC750	AR1254ICC750	05/14/2025	22:49	PO111076.D	8.67	3.68
AR1254ICC500	AR1254ICC500	05/14/2025	23:06	PO111077.D	8.67	3.68
AR1254ICC250	AR1254ICC250	05/14/2025	23:25	PO111078.D	8.67	3.68
AR1254ICC050	AR1254ICC050	05/14/2025	23:43	PO111079.D	8.67	3.68
AR1262ICC500	AR1262ICC500	05/15/2025	00:01	PO111080.D	8.67	3.68
AR1268ICC1000	AR1268ICC1000	05/15/2025	00:19	PO111081.D	8.67	3.68
AR1268ICC750	AR1268ICC750	05/15/2025	00:37	PO111082.D	8.67	3.68
AR1268ICC500	AR1268ICC500	05/15/2025	00:56	PO111083.D	8.67	3.68
AR1268ICC250	AR1268ICC250	05/15/2025	01:14	PO111084.D	8.67	3.68
AR1268ICC050	AR1268ICC050	05/15/2025	01:31	PO111085.D	8.67	3.68
AR1660CCC500	AR1660CCC500	06/04/2025	15:23	PO111468.D	8.67	3.68
I.BLK	I.BLK	06/04/2025	16:35	PO111472.D	8.66	3.68
B-207-SB02	Q2198-03	06/04/2025	16:52	PO111473.D	8.66	3.68
AR1660CCC500	AR1660CCC500	06/04/2025	18:57	PO111477.D	8.67	3.68
I.BLK	I.BLK	06/04/2025	20:27	PO111481.D	8.67	3.68
I.BLK	I.BLK	05/19/2025	09:26	PP072163.D	8.82	3.79
AR1660ICC1000	AR1660ICC1000	05/19/2025	09:42	PP072164.D	8.82	3.79
AR1660ICC750	AR1660ICC750	05/19/2025	09:59	PP072165.D	8.82	3.79
AR1660ICC500	AR1660ICC500	05/19/2025	10:15	PP072166.D	8.82	3.79
AR1660ICC250	AR1660ICC250	05/19/2025	10:32	PP072167.D	8.82	3.79
AR1660ICC050	AR1660ICC050	05/19/2025	10:48	PP072168.D	8.82	3.79
AR1221ICC500	AR1221ICC500	05/19/2025	11:05	PP072169.D	8.82	3.79
AR1232ICC1000	AR1232ICC1000	05/19/2025	11:21	PP072170.D	8.82	3.80

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Fax : 908 789 8922

Analytical Sequence

AR1232ICC750	AR1232ICC750	05/19/2025	11:38	PP072171.D	8.82	3.80
AR1232ICC500	AR1232ICC500	05/19/2025	11:54	PP072172.D	8.82	3.80
AR1232ICC250	AR1232ICC250	05/19/2025	12:10	PP072173.D	8.82	3.80
AR1232ICC050	AR1232ICC050	05/19/2025	12:27	PP072174.D	8.82	3.80
AR1242ICC1000	AR1242ICC1000	05/19/2025	12:43	PP072175.D	8.83	3.80
AR1242ICC750	AR1242ICC750	05/19/2025	12:59	PP072176.D	8.83	3.80
AR1242ICC500	AR1242ICC500	05/19/2025	13:15	PP072177.D	8.83	3.80
AR1242ICC250	AR1242ICC250	05/19/2025	13:32	PP072178.D	8.83	3.80
AR1242ICC050	AR1242ICC050	05/19/2025	13:48	PP072179.D	8.82	3.80
AR1248ICC1000	AR1248ICC1000	05/19/2025	14:04	PP072180.D	8.83	3.80
AR1248ICC750	AR1248ICC750	05/19/2025	14:20	PP072181.D	8.83	3.80
AR1248ICC500	AR1248ICC500	05/19/2025	14:37	PP072182.D	8.83	3.80
AR1248ICC250	AR1248ICC250	05/19/2025	14:53	PP072183.D	8.83	3.80
AR1248ICC050	AR1248ICC050	05/19/2025	15:25	PP072184.D	8.82	3.80
AR1254ICC1000	AR1254ICC1000	05/19/2025	15:42	PP072185.D	8.83	3.80
AR1254ICC750	AR1254ICC750	05/19/2025	15:58	PP072186.D	8.83	3.80
AR1254ICC500	AR1254ICC500	05/19/2025	16:14	PP072187.D	8.83	3.80
AR1254ICC250	AR1254ICC250	05/19/2025	16:31	PP072188.D	8.83	3.80
AR1254ICC050	AR1254ICC050	05/19/2025	16:47	PP072189.D	8.83	3.80
AR1262ICC500	AR1262ICC500	05/19/2025	17:03	PP072190.D	8.83	3.80
AR1268ICC1000	AR1268ICC1000	05/19/2025	17:20	PP072191.D	8.83	3.80
AR1268ICC750	AR1268ICC750	05/19/2025	17:36	PP072192.D	8.83	3.80
AR1268ICC500	AR1268ICC500	05/19/2025	17:53	PP072193.D	8.83	3.80
AR1268ICC250	AR1268ICC250	05/19/2025	18:09	PP072194.D	8.82	3.80
AR1268ICC050	AR1268ICC050	05/19/2025	18:25	PP072195.D	8.82	3.80
AR1660CCC500	AR1660CCC500	06/04/2025	14:51	PP072619.D	8.81	3.80
I.BLK	I.BLK	06/04/2025	15:56	PP072623.D	8.81	3.80
PB168288BL	PB168288BL	06/04/2025	16:13	PP072624.D	8.81	3.80
OK-01-060325MS	Q2195-01MS	06/04/2025	18:07	PP072631.D	8.81	3.80
OK-01-060325MSD	Q2195-01MSD	06/04/2025	18:23	PP072632.D	8.81	3.80
B-202-SB02	Q2198-01	06/04/2025	18:40	PP072633.D	8.81	3.80
AR1660CCC500	AR1660CCC500	06/04/2025	20:01	PP072634.D	8.81	3.80
I.BLK	I.BLK	06/04/2025	21:07	PP072638.D	8.81	3.80
AR1660CCC500	AR1660CCC500	06/05/2025	08:57	PP072647.D	8.81	3.79
I.BLK	I.BLK	06/05/2025	10:02	PP072651.D	8.81	3.80
PB168288BS	PB168288BS	06/05/2025	10:35	PP072653.D	8.81	3.80
AR1660CCC500	AR1660CCC500	06/05/2025	14:51	PP072662.D	8.81	3.80
I.BLK	I.BLK	06/05/2025	15:57	PP072666.D	8.81	3.80
AR1660CCC500	AR1660CCC500	06/06/2025	17:01	PP072698.D	8.81	3.80
I.BLK	I.BLK	06/06/2025	18:07	PP072702.D	8.81	3.80
PB168325BL	PB168325BL	06/06/2025	19:46	PP072708.D	8.81	3.80
B-202-GW01	Q2198-05	06/06/2025	20:35	PP072711.D	8.81	3.80
AR1660CCC500	AR1660CCC500	06/06/2025	21:40	PP072713.D	8.81	3.80
I.BLK	I.BLK	06/06/2025	23:19	PP072717.D	8.81	3.80
AR1660CCC500	AR1660CCC500	06/09/2025	09:22	PP072732.D	8.81	3.79
I.BLK	I.BLK	06/09/2025	10:59	PP072737.D	8.81	3.79
PB168325BS	PB168325BS	06/09/2025	11:17	PP072738.D	8.81	3.79
PB168325BSD	PB168325BSD	06/09/2025	11:34	PP072739.D	8.81	3.79
AR1660CCC500	AR1660CCC500	06/09/2025	15:18	PP072748.D	8.81	3.79
I.BLK	I.BLK	06/09/2025	16:39	PP072753.D	8.81	3.79

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IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

SAMPLE NO.
OK-01-060325MS

Contract: PORT06

Lab Code: CHEM Case No.: Q2198 SAS No.: Q2198 SDG NO.: Q2198

Lab Sample ID: Q2195-01MS Date(s) Analyzed: 06/04/2025 06/04/2025

Instrument ID (1): ECD_P Instrument ID (2): ECD_P

GC Column: (1): ZB-MR1 ID: 0.32 (mm) GC Column:(2): ZB-MR2 ID: 0.32 (mm)

Data file PP072631.D

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%RPD
Aroclor-1016	1	5.652	5.602	5.702	96.1		
	2	5.674	5.624	5.724	110		
	3	5.736	5.686	5.786	100		
COLUMN 1	4	5.834	5.784	5.884	115		
	5	6.125	6.075	6.175	114	107	
	1	4.878	4.828	4.928	121		
	2	4.896	4.846	4.946	117		
	3	5.073	5.023	5.123	127		
	4	5.115	5.065	5.165	134		
COLUMN 2	5	5.329	5.279	5.379	118	124	14.72
Aroclor-1260	1	7.244	7.194	7.294	107		
	2	7.498	7.448	7.548	131		
	3	7.855	7.805	7.905	89.7		
COLUMN 1	4	8.079	8.029	8.129	101		
	5	8.399	8.349	8.449	99.8	106	
	1	6.361	6.311	6.411	123		
	2	6.55	6.5	6.6	115		
	3	6.702	6.652	6.752	116		
	4	7.172	7.122	7.222	110		
COLUMN 2	5	7.414	7.364	7.464	112	115	8.14

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Fax : 908 789 8922

IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

SAMPLE NO.

OK-01-060325MSD

Contract: PORT06

Lab Code: CHEM Case No.: Q2198 SAS No.: Q2198 SDG NO.: Q2198

Lab Sample ID: Q2195-01MSD Date(s) Analyzed: 06/04/2025 06/04/2025

Instrument ID (1): ECD_P Instrument ID (2): ECD_P

GC Column: (1): ZB-MR1 ID: 0.32 (mm) GC Column:(2): ZB-MR2 ID: 0.32 (mm)

Data file PP072632.D

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%RPD
Aroclor-1016	1	5.654	5.604	5.704	100.0		
	2	5.676	5.626	5.726	102		
	3	5.739	5.689	5.789	91.4		
COLUMN 1	4	5.836	5.786	5.886	100		
	5	6.127	6.077	6.177	98.6	98.4	
	1	4.877	4.827	4.927	127		
	2	4.895	4.845	4.945	118		
	3	5.072	5.022	5.122	121		
	4	5.114	5.064	5.164	124		
COLUMN 2	5	5.328	5.278	5.378	118	121	20.6
Aroclor-1260	1	7.247	7.197	7.297	99.9		
	2	7.5	7.45	7.55	125		
	3	7.858	7.808	7.908	86.1		
COLUMN 1	4	8.082	8.032	8.132	98.8		
	5	8.4	8.35	8.45	97.4	101	
	1	6.36	6.31	6.41	120		
	2	6.549	6.499	6.599	114		
	3	6.7	6.65	6.75	120		
	4	7.171	7.121	7.221	104		
COLUMN 2	5	7.413	7.363	7.463	104	112	10.33

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IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

SAMPLE NO.
PB168288BS

Contract: PORT06
Lab Code: CHEM Case No.: Q2198 SAS No.: Q2198 SDG NO.: Q2198
Lab Sample ID: PB168288BS Date(s) Analyzed: 06/05/2025 06/05/2025
Instrument ID (1): ECD_P Instrument ID (2): ECD_P
GC Column: (1): ZB-MR1 ID: 0.32 (mm) GC Column:(2): ZB-MR2 ID: 0.32 (mm)
Data file PP072653.D

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%RPD
Aroclor-1016	1	5.654	5.604	5.704	134		
	2	5.675	5.625	5.725	147		
	3	5.738	5.688	5.788	144		
COLUMN 1	4	5.834	5.784	5.884	149		
	5	6.127	6.077	6.177	144	144	
	1	4.876	4.826	4.926	157		
	2	4.894	4.844	4.944	163		
	3	5.071	5.021	5.121	163		
	4	5.112	5.062	5.162	161		
COLUMN 2	5	5.326	5.276	5.376	156	160	10.53
Aroclor-1260	1	7.245	7.195	7.295	152		
	2	7.498	7.448	7.548	153		
	3	7.857	7.807	7.907	131		
COLUMN 1	4	8.08	8.03	8.13	135		
	5	8.399	8.349	8.449	135	141	
	1	6.358	6.308	6.408	171		
	2	6.547	6.497	6.597	162		
	3	6.699	6.649	6.749	172		
	4	7.17	7.12	7.22	155		
COLUMN 2	5	7.412	7.362	7.462	156	163	14.47

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IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

SAMPLE NO.

PB168325BS

Contract: PORT06

Lab Code: CHEM Case No.: Q2198 SAS No.: Q2198 SDG NO.: Q2198

Lab Sample ID: PB168325BS Date(s) Analyzed: 06/09/2025 06/09/2025

Instrument ID (1): ECD_P Instrument ID (2): ECD_P

GC Column: (1): ZB-MR1 ID: 0.32 (mm) GC Column:(2): ZB-MR2 ID: 0.32 (mm)

Data file PP072738.D

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%RPD
Aroclor-1016	1	5.652	5.602	5.702	4.14		
	2	5.673	5.623	5.723	4.53		
	3	5.736	5.686	5.786	4.47		
COLUMN 1	4	5.833	5.783	5.883	4.71		
	5	6.125	6.075	6.175	4.48	4.50	
	1	4.876	4.826	4.926	4.73		
	2	4.894	4.844	4.944	4.82		
	3	5.07	5.02	5.12	4.85		
	4	5.112	5.062	5.162	4.83		
COLUMN 2	5	5.326	5.276	5.376	4.62	4.80	6.45
Aroclor-1260	1	7.242	7.192	7.292	4.76		
	2	7.497	7.447	7.547	4.60		
	3	7.855	7.805	7.905	4.15		
COLUMN 1	4	8.079	8.029	8.129	4.44		
	5	8.397	8.347	8.447	4.39	4.50	
	1	6.358	6.308	6.408	5.15		
	2	6.547	6.497	6.597	4.87		
	3	6.699	6.649	6.749	5.22		
	4	7.169	7.119	7.219	4.67		
COLUMN 2	5	7.412	7.362	7.462	4.53	4.90	8.51

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IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

SAMPLE NO.
PB168325BSD

Contract: PORT06

Lab Code: CHEM Case No.: Q2198 SAS No.: Q2198 SDG NO.: Q2198

Lab Sample ID: PB168325BSD Date(s) Analyzed: 06/09/2025 06/09/2025

Instrument ID (1): ECD_P Instrument ID (2): ECD_P

GC Column: (1): ZB-MR1 ID: 0.32 (mm) GC Column:(2): ZB-MR2 ID: 0.32 (mm)

Data file PP072739.D

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%RPD
Aroclor-1016	1	5.651	5.601	5.701	4.20		
	2	5.673	5.623	5.723	4.52		
	3	5.735	5.685	5.785	4.48		
COLUMN 1	4	5.833	5.783	5.883	4.64		
	5	6.125	6.075	6.175	4.45	4.50	
	1	4.874	4.824	4.924	4.74		
	2	4.892	4.842	4.942	4.85		
	3	5.069	5.019	5.119	4.84		
	4	5.11	5.06	5.16	4.81		
COLUMN 2	5	5.324	5.274	5.374	4.72	4.80	6.45
Aroclor-1260	1	7.243	7.193	7.293	4.73		
	2	7.496	7.446	7.546	4.55		
	3	7.854	7.804	7.904	4.08		
COLUMN 1	4	8.078	8.028	8.128	4.37		
	5	8.396	8.346	8.446	4.44	4.40	
	1	6.356	6.306	6.406	5.11		
	2	6.545	6.495	6.595	4.90		
	3	6.697	6.647	6.747	5.11		
	4	7.167	7.117	7.217	4.56		
COLUMN 2	5	7.409	7.359	7.459	4.54	4.80	8.7

SAMPLE RAW DATA

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP060425\
Data File : PP072633.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 04 Jun 2025 18:40
Operator : YP\AJ
Sample : Q2198-01
Misc :
ALS Vial : 26 Sample Multiplier: 1

Instrument :
ECD_P
ClientSampleId :
B-202-SB02

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 06/05/2025
Supervised By :mohammad ahmed 06/06/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 05 01:44:40 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP051925.M
Quant Title : GC EXTRACTABLES
QLast Update : Sat May 24 03:32:20 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
1)	SA Tetrachlo...	4.500	3.796	31917043	32624529	15.873m	20.411 #
2)	SA Decachlor...	10.202	8.812	22057260	16948693	13.539	16.010
	Target Compounds						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

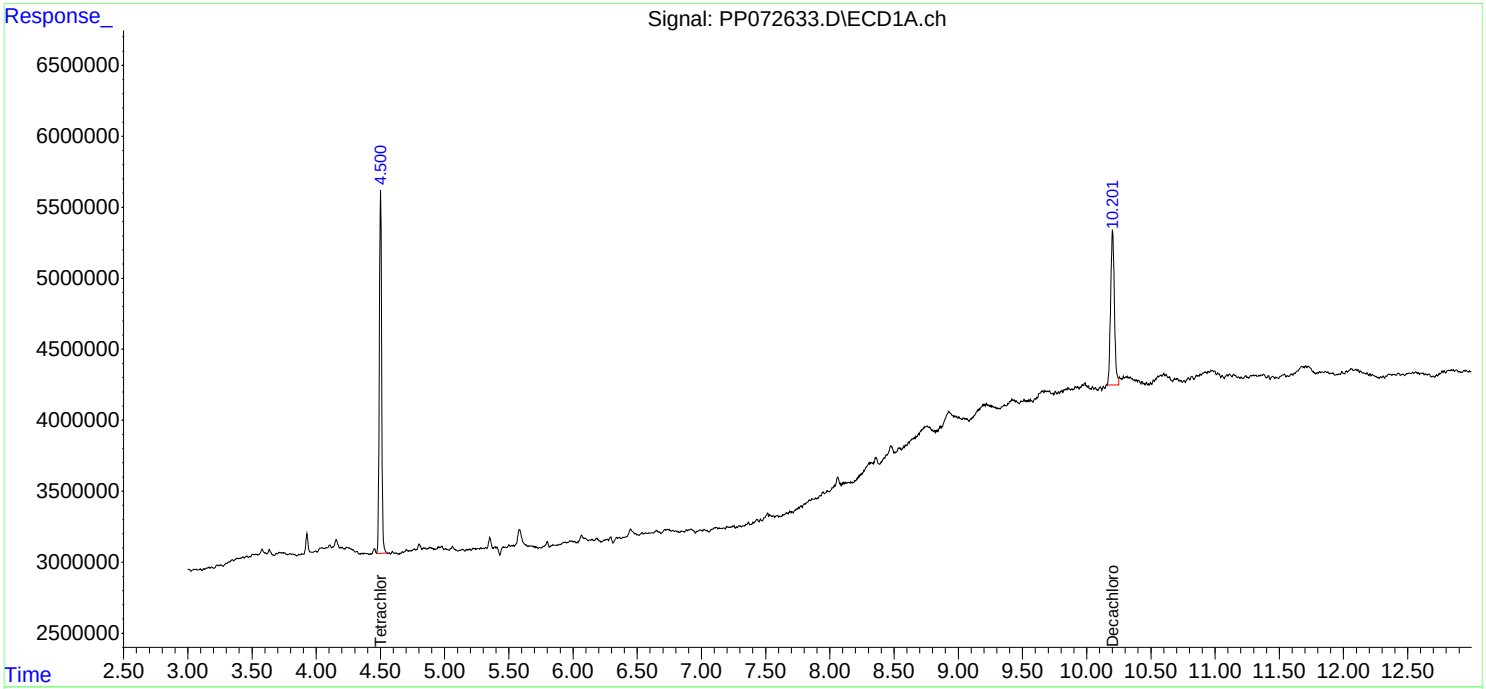
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP060425\
Data File : PP072633.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 04 Jun 2025 18:40
Operator : YP\AJ
Sample : Q2198-01
Misc :
ALS Vial : 26 Sample Multiplier: 1

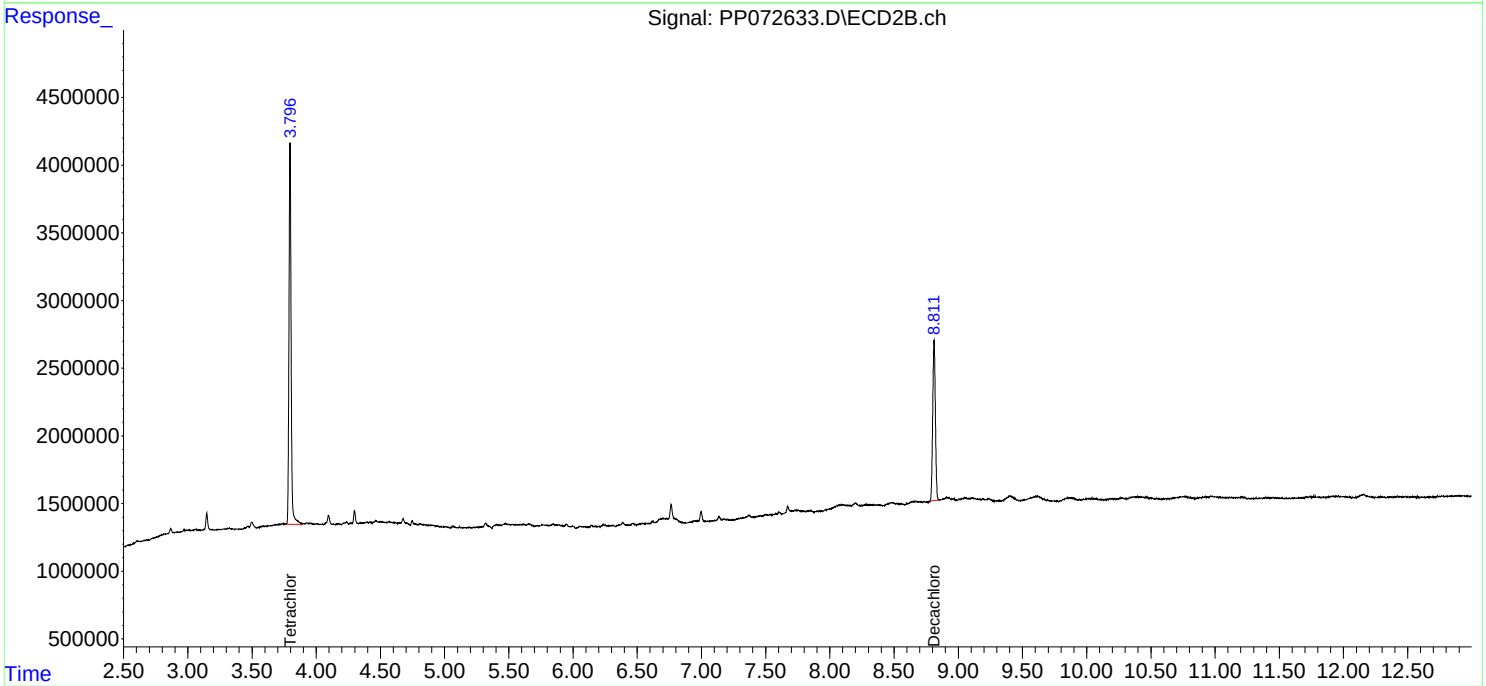
Instrument :
ECD_P
ClientSampleId :
B-202-SB02

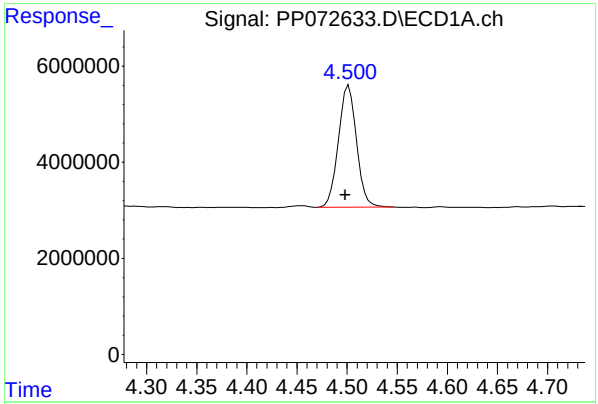
Manual Integrations APPROVED
Reviewed By :Yogesh Patel 06/05/2025
Supervised By :mohammad ahmed 06/06/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 05 01:44:40 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP051925.M
Quant Title : GC EXTRACTABLES
QLast Update : Sat May 24 03:32:20 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm







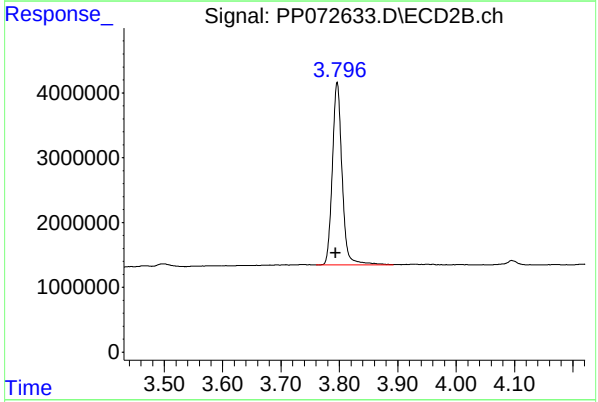
#1 Tetrachloro-m-xylene

R.T.: 4.500 min
Delta R.T.: 0.002 min
Response: 31917043
Conc: 15.87 ng/ml

Instrument :
ECD_P
ClientSampleId :
B-202-SB02

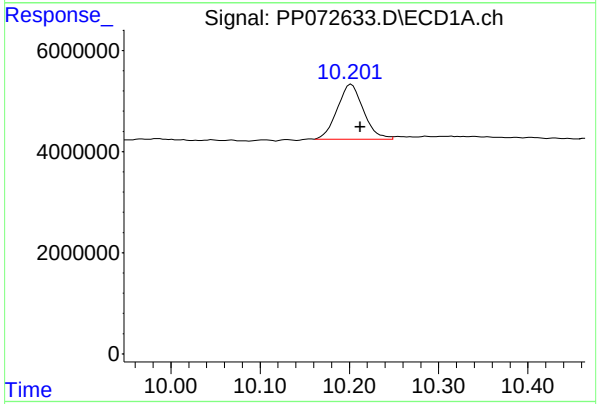
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 06/05/2025
Supervised By :mohammad ahmed 06/06/2025



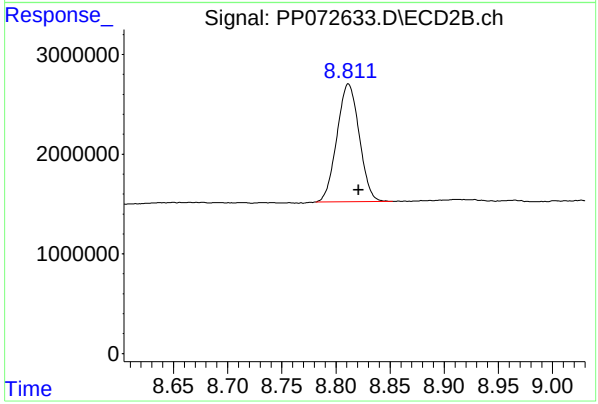
#1 Tetrachloro-m-xylene

R.T.: 3.796 min
Delta R.T.: 0.003 min
Response: 32624529
Conc: 20.41 ng/ml



#2 Decachlorobiphenyl

R.T.: 10.202 min
Delta R.T.: -0.010 min
Response: 22057260
Conc: 13.54 ng/ml



#2 Decachlorobiphenyl

R.T.: 8.812 min
Delta R.T.: -0.010 min
Response: 16948693
Conc: 16.01 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO060425\
Data File : PO111473.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 04 Jun 2025 16:52
Operator : YP/AJ
Sample : Q2198-03
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument :
ECD_O
ClientSampleId :
B-207-SB02

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 06/05/2025
Supervised By :mohammad ahmed 06/06/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 05 01:43:53 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO051525.M
Quant Title : GC EXTRACTABLES
QLast Update : Thu May 15 07:11:53 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
1)	SA Tetrachlo...	3.677	3.675	111.5E6	95470208	18.950	17.513
2)	SA Decachlor...	8.713	8.664	59323512	20332372	11.490m	10.990m
	Target Compounds						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

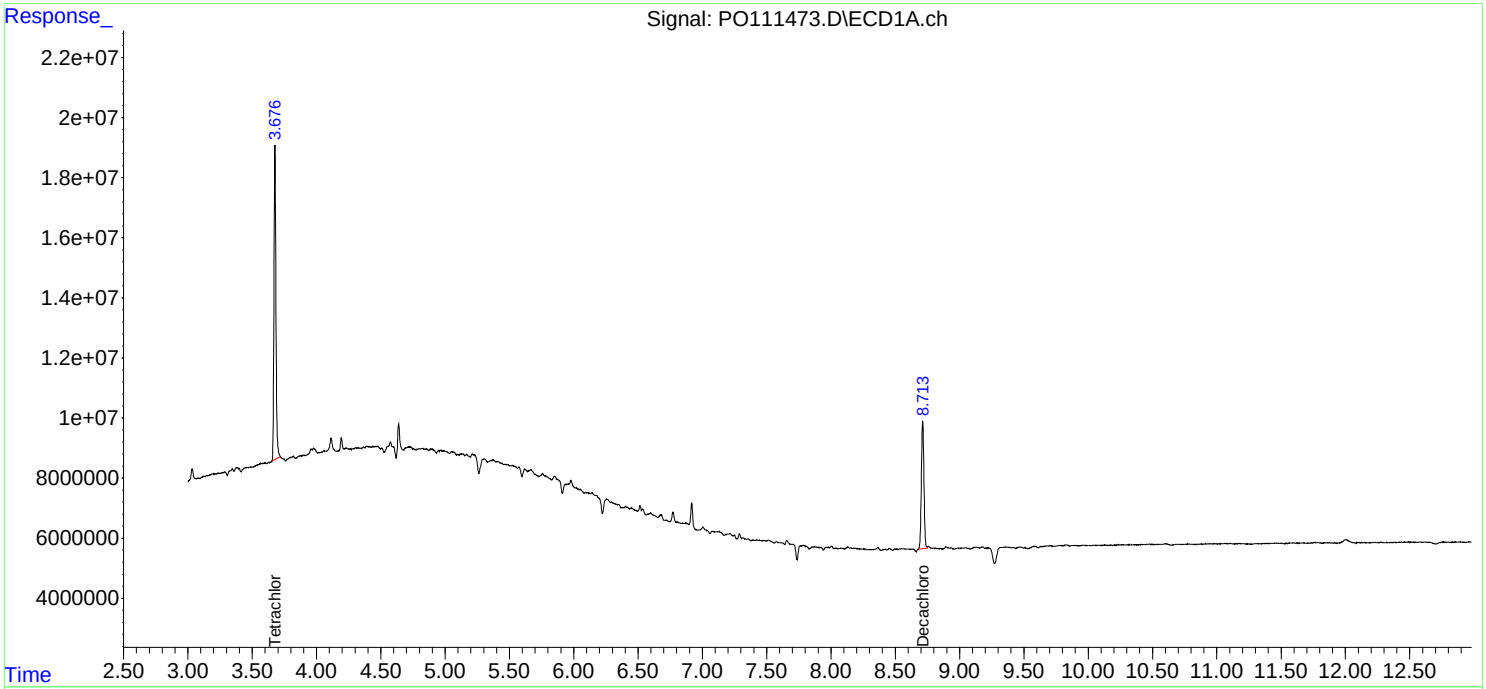
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO060425\
Data File : PO111473.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 04 Jun 2025 16:52
Operator : YP/AJ
Sample : Q2198-03
Misc :
ALS Vial : 17 Sample Multiplier: 1

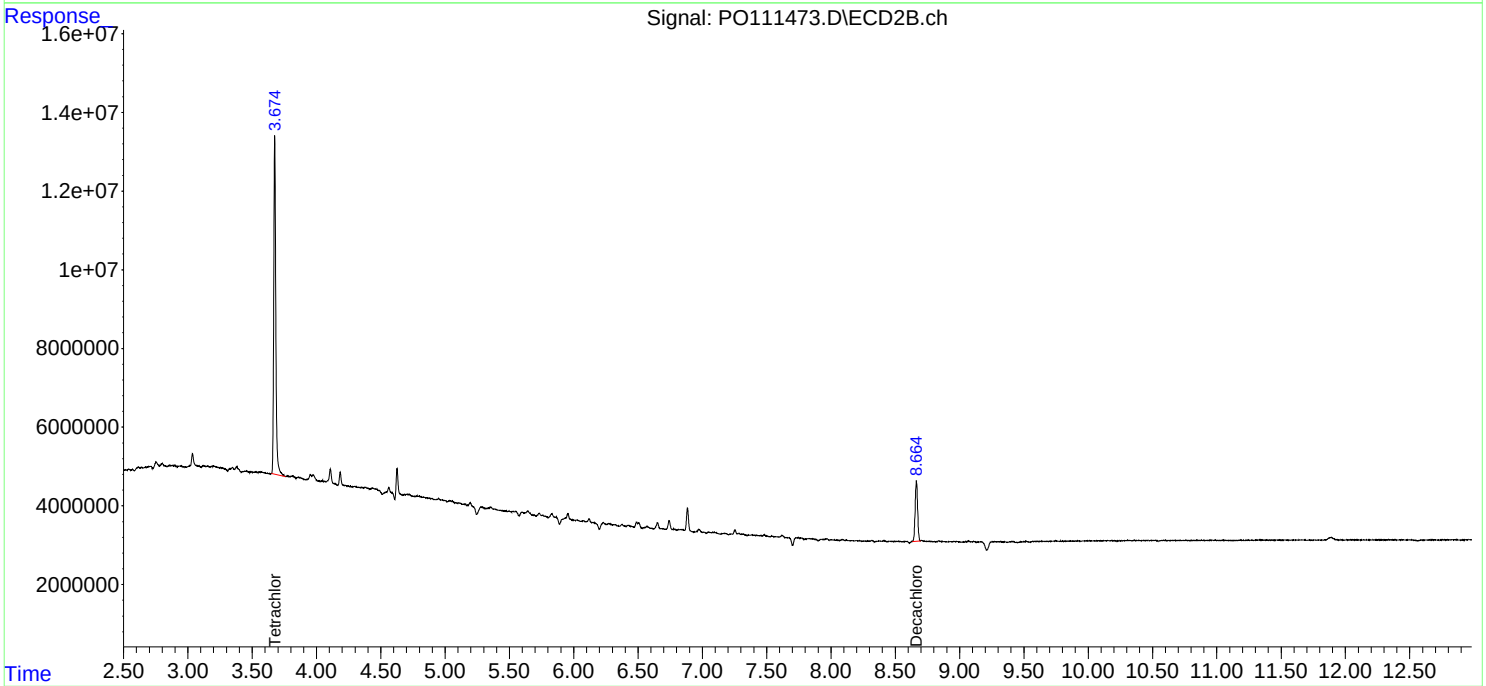
Instrument :
ECD_O
ClientSampleId :
B-207-SB02

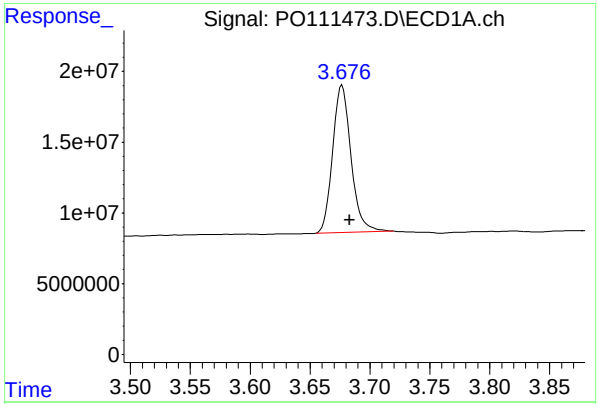
Manual Integrations APPROVED
Reviewed By :Yogesh Patel 06/05/2025
Supervised By :mohammad ahmed 06/06/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 05 01:43:53 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO051525.M
Quant Title : GC EXTRACTABLES
QLast Update : Thu May 15 07:11:53 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm







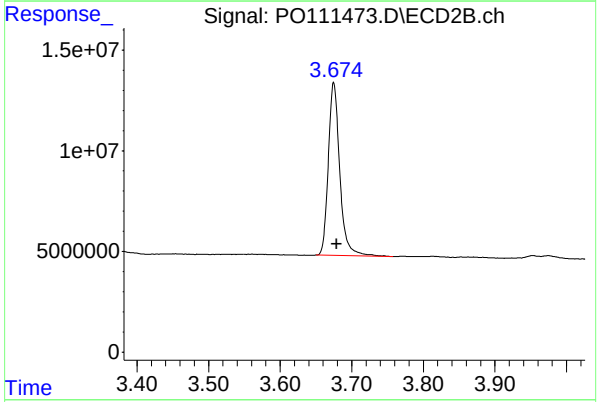
#1 Tetrachloro-m-xylene

R.T.: 3.677 min
Delta R.T.: -0.006 mi
Response: 111487366
Conc: 18.95 ng/ml

Instrument :
ECD_O
ClientSampleId :
B-207-SB02

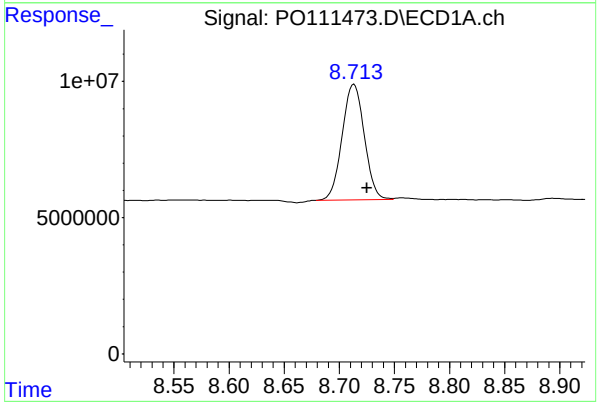
Manual Integrations APPROVED

Reviewed By :Yogesh Patel 06/05/2025
Supervised By :mohammad ahmed 06/06/2025



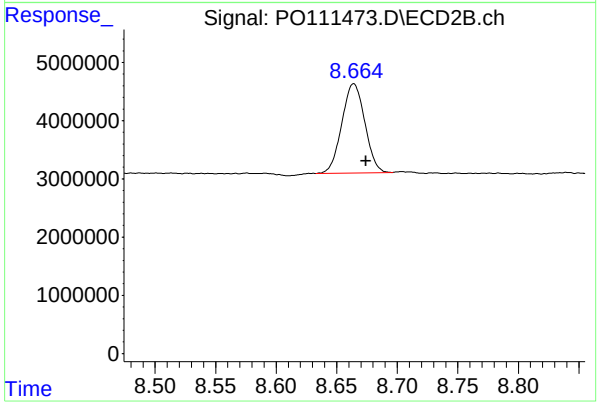
#1 Tetrachloro-m-xylene

R.T.: 3.675 min
Delta R.T.: -0.004 min
Response: 95470208
Conc: 17.51 ng/ml



#2 Decachlorobiphenyl

R.T.: 8.713 min
Delta R.T.: -0.012 min
Response: 59323512
Conc: 11.49 ng/ml m



#2 Decachlorobiphenyl

R.T.: 8.664 min
Delta R.T.: -0.010 min
Response: 20332372
Conc: 10.99 ng/ml m

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP060625\
Data File : PP072711.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 06 Jun 2025 20:35
Operator : YP\AJ
Sample : Q2198-05
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument :
ECD_P
ClientSampleId :
B-202-GW01

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 06 22:46:56 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP051925.M
Quant Title : GC EXTRACTABLES
QLast Update : Sat May 24 03:32:20 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
1)	SA Tetrachlo...	4.501	3.796	38819407	36159156	19.305	22.623
2)	SA Decachlor...	10.203	8.811	18417964	15572216	11.305	14.710 #
	Target Compounds						

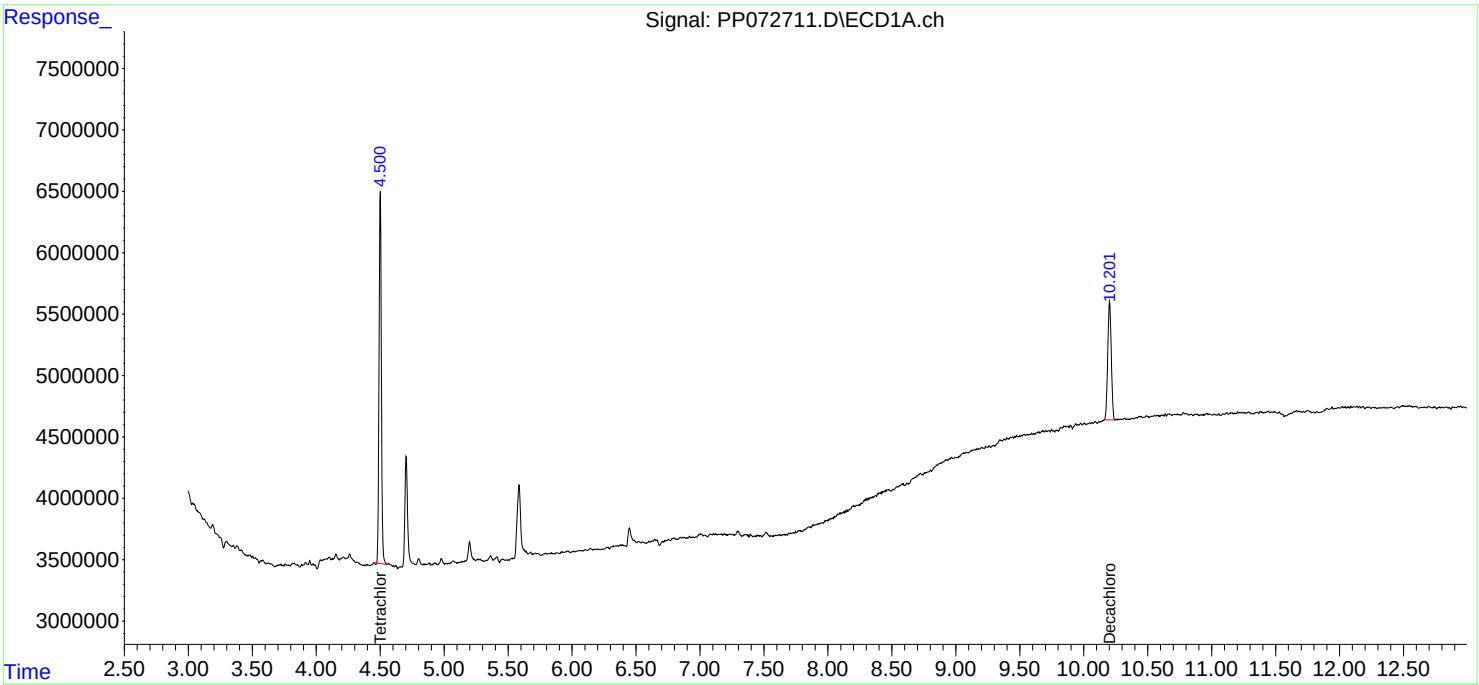
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

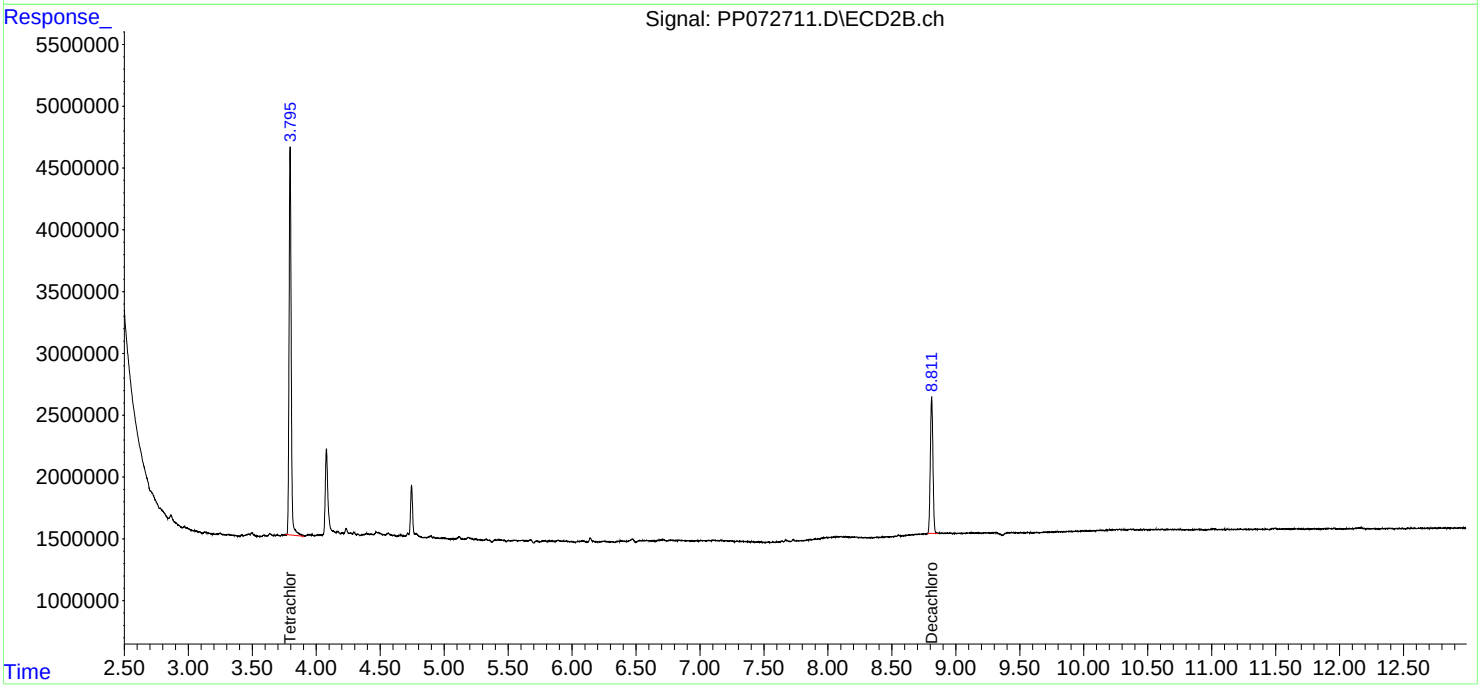
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP060625\
Data File : PP072711.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 06 Jun 2025 20:35
Operator : YP\AJ
Sample : Q2198-05
Misc :
ALS Vial : 25 Sample Multiplier: 1

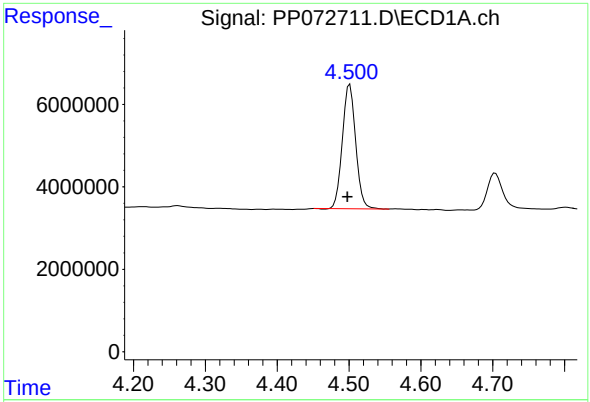
Instrument :
ECD_P
ClientSampleId :
B-202-GW01

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 06 22:46:56 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP051925.M
Quant Title : GC EXTRACTABLES
QLast Update : Sat May 24 03:32:20 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm



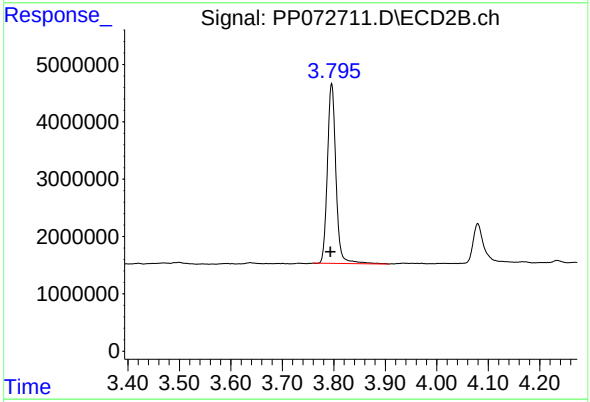




#1 Tetrachloro-m-xylene

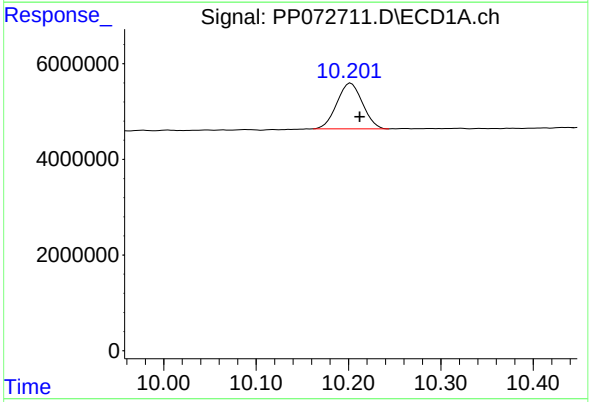
R.T.: 4.501 min
Delta R.T.: 0.003 min
Response: 38819407
Conc: 19.31 ng/ml

Instrument :
ECD_P
ClientSampleId :
B-202-GW01



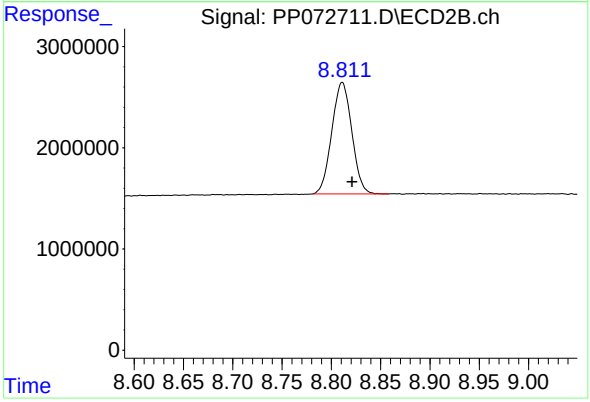
#1 Tetrachloro-m-xylene

R.T.: 3.796 min
Delta R.T.: 0.002 min
Response: 36159156
Conc: 22.62 ng/ml



#2 Decachlorobiphenyl

R.T.: 10.203 min
Delta R.T.: -0.009 min
Response: 18417964
Conc: 11.31 ng/ml



#2 Decachlorobiphenyl

R.T.: 8.811 min
Delta R.T.: -0.010 min
Response: 15572216
Conc: 14.71 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP060425\
Data File : PP072624.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 04 Jun 2025 16:13
Operator : YP\AJ
Sample : PB168288BL
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument :
ECD_P
ClientSampleId :
PB168288BL

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 06/05/2025
Supervised By :mohammad ahmed 06/06/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 05 01:41:14 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP051925.M
Quant Title : GC EXTRACTABLES
QLast Update : Sat May 24 03:32:20 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
1) SA	Tetrachlo...	4.500	3.797	37345625	32086530	18.573	20.075
2) SA	Decachlor...	10.198	8.811	33338180	24436518	20.464m	23.084m
	Target Compounds						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

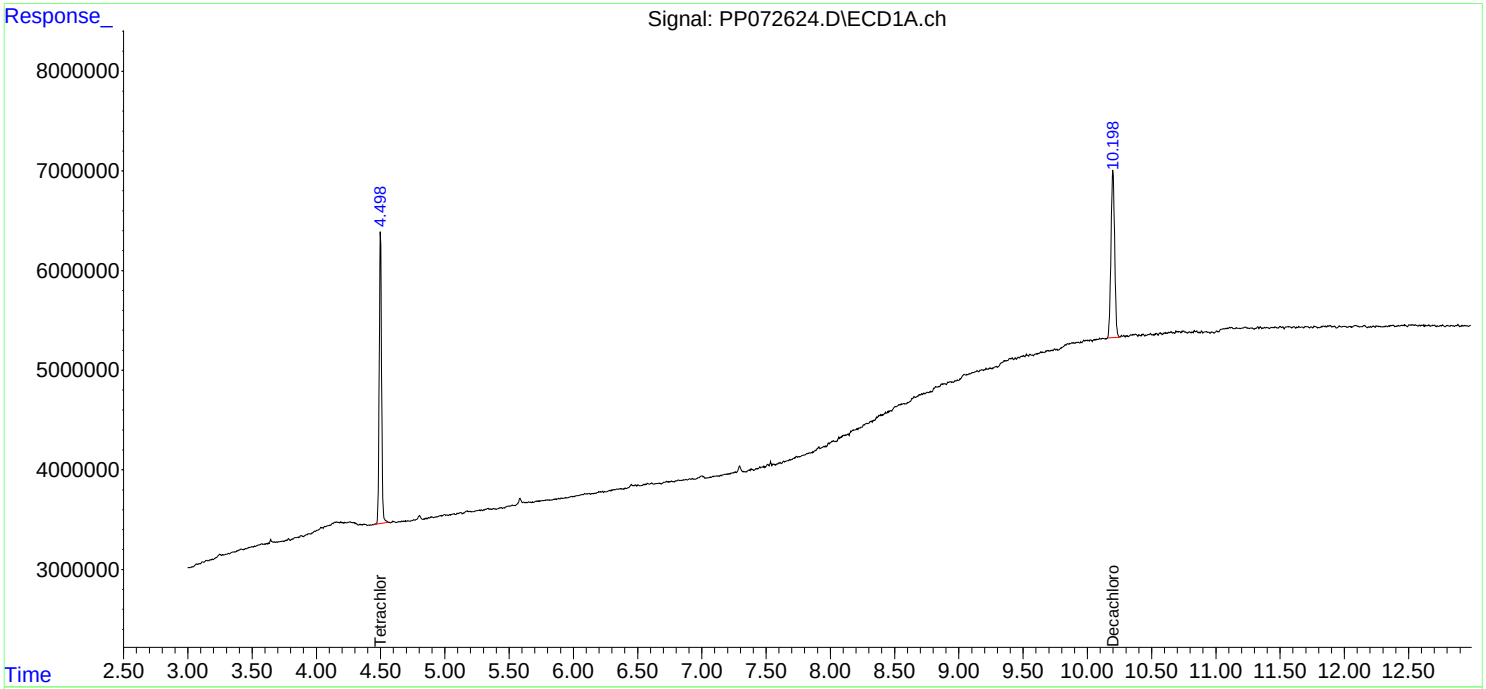
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP060425\
Data File : PP072624.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 04 Jun 2025 16:13
Operator : YP\AJ
Sample : PB168288BL
Misc :
ALS Vial : 17 Sample Multiplier: 1

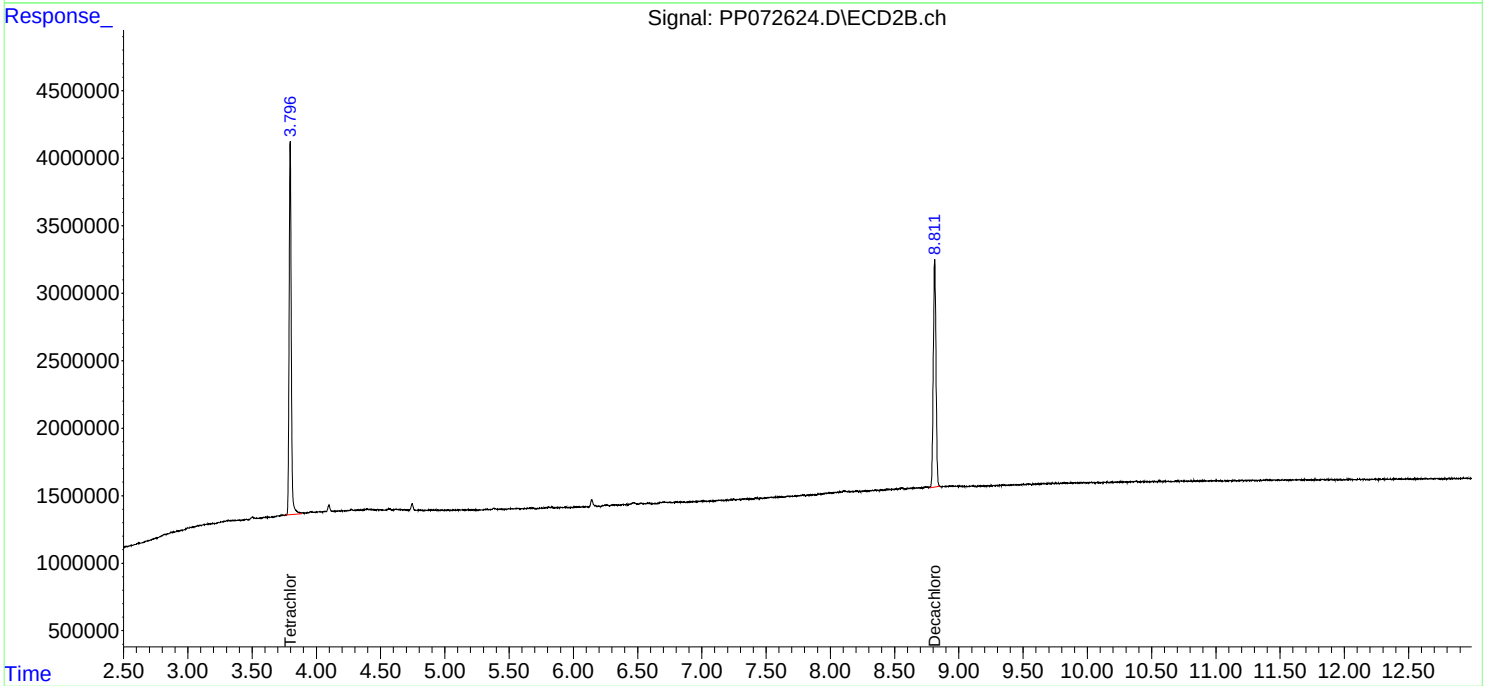
Instrument :
ECD_P
ClientSampleId :
PB168288BL

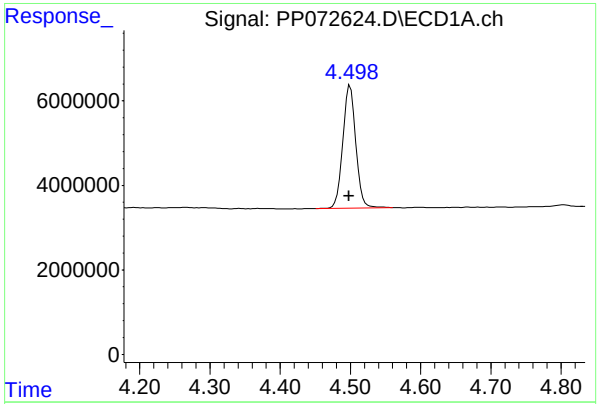
Manual Integrations APPROVED
Reviewed By :Yogesh Patel 06/05/2025
Supervised By :mohammad ahmed 06/06/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 05 01:41:14 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP051925.M
Quant Title : GC EXTRACTABLES
QLast Update : Sat May 24 03:32:20 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm







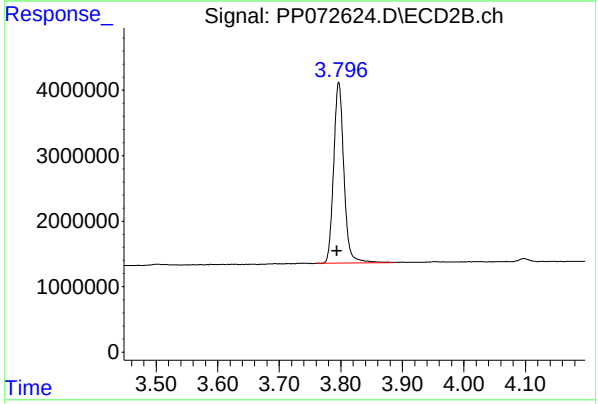
#1 Tetrachloro-m-xylene

R.T.: 4.500 min
Delta R.T.: 0.002 min
Response: 37345625
Conc: 18.57 ng/ml

Instrument :
ECD_P
ClientSampleId :
PB168288BL

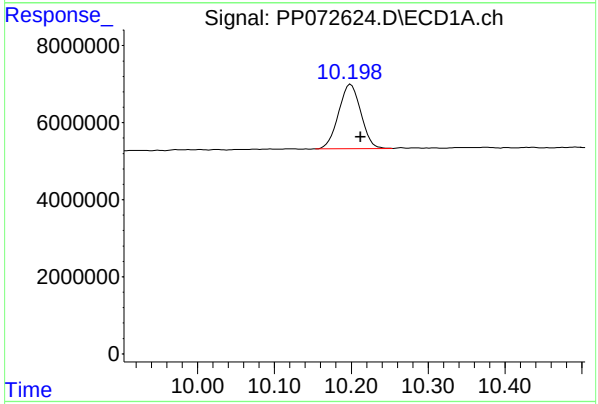
Manual Integrations APPROVED

Reviewed By :Yogesh Patel 06/05/2025
Supervised By :mohammad ahmed 06/06/2025



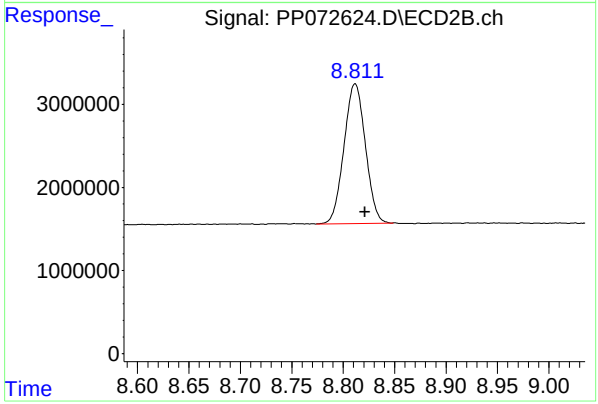
#1 Tetrachloro-m-xylene

R.T.: 3.797 min
Delta R.T.: 0.003 min
Response: 32086530
Conc: 20.07 ng/ml



#2 Decachlorobiphenyl

R.T.: 10.198 min
Delta R.T.: -0.014 min
Response: 33338180
Conc: 20.46 ng/ml m



#2 Decachlorobiphenyl

R.T.: 8.811 min
Delta R.T.: -0.010 min
Response: 24436518
Conc: 23.08 ng/ml m

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP060625\
Data File : PP072708.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 06 Jun 2025 19:46
Operator : YP\AJ
Sample : PB168325BL
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
ECD_P
ClientSampleId :
PB168325BL

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 06 22:46:04 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP051925.M
Quant Title : GC EXTRACTABLES
QLast Update : Sat May 24 03:32:20 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
1)	SA Tetrachlo...	4.503	3.796	40435616	36933542	20.109	23.107
2)	SA Decachlor...	10.205	8.811	31287926	24518568	19.205	23.161
	Target Compounds						

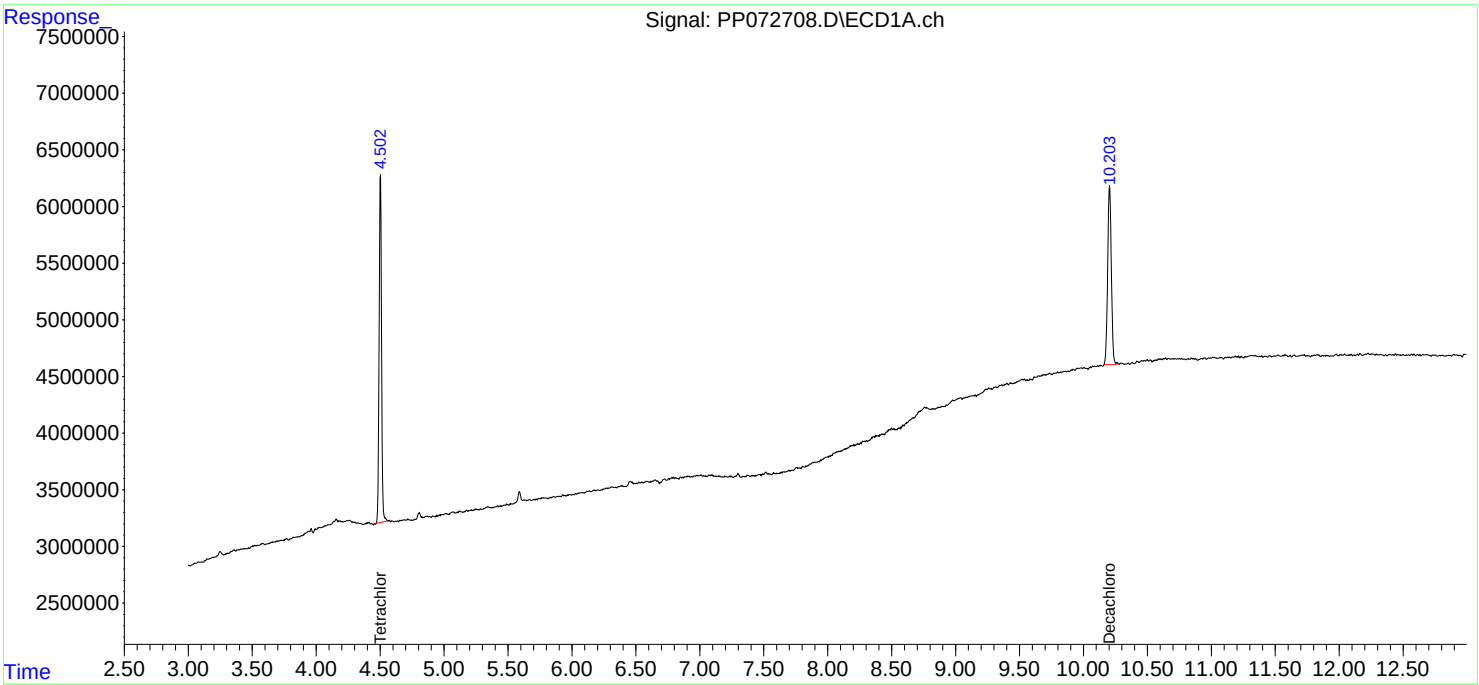
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

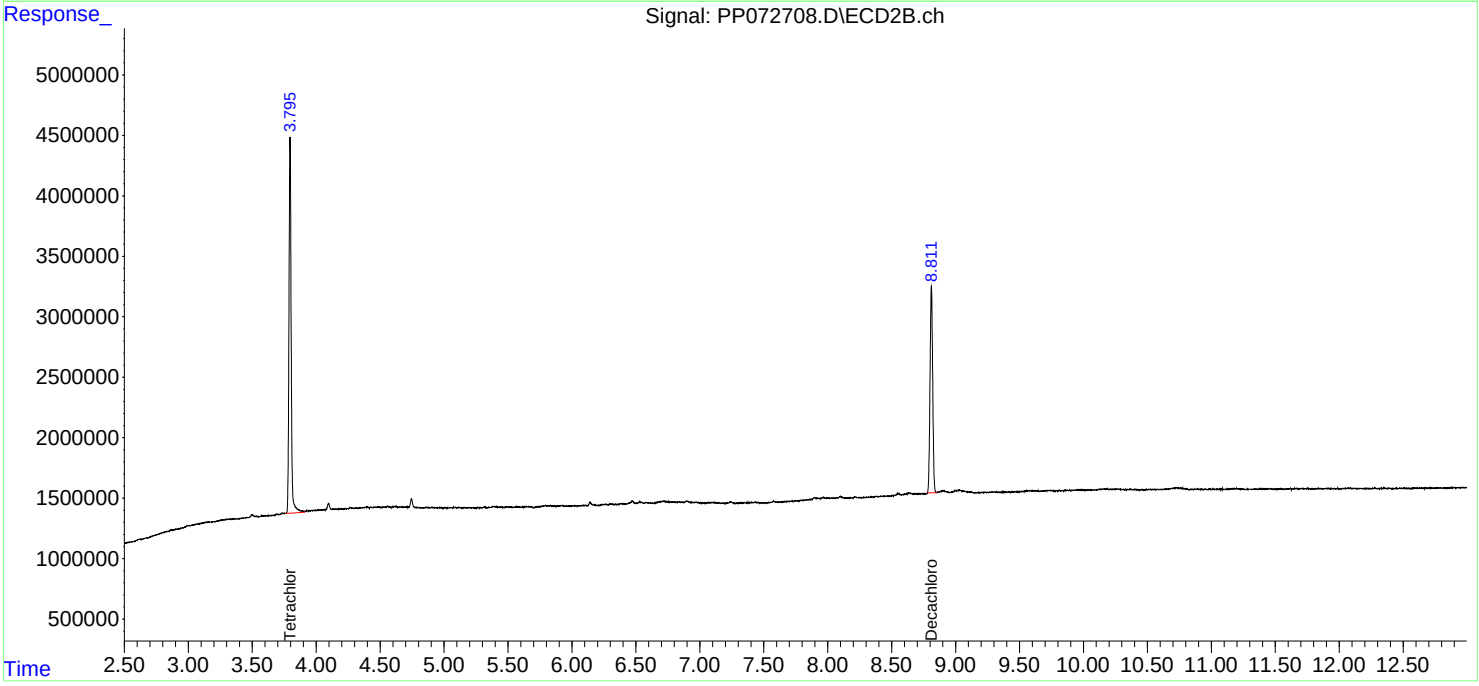
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP060625\
Data File : PP072708.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 06 Jun 2025 19:46
Operator : YP\AJ
Sample : PB168325BL
Misc :
ALS Vial : 22 Sample Multiplier: 1

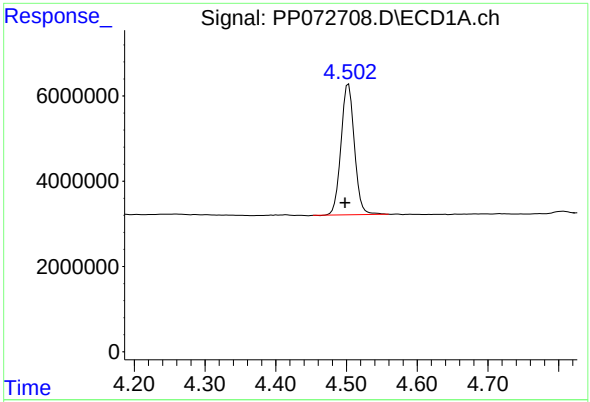
Instrument :
ECD_P
ClientSampleId :
PB168325BL

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 06 22:46:04 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP051925.M
Quant Title : GC EXTRACTABLES
QLast Update : Sat May 24 03:32:20 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm



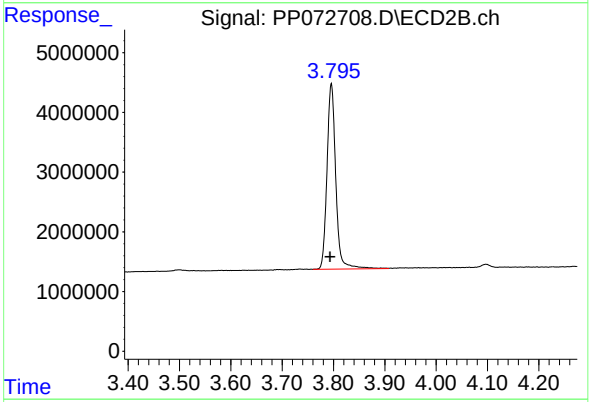




#1 Tetrachloro-m-xylene

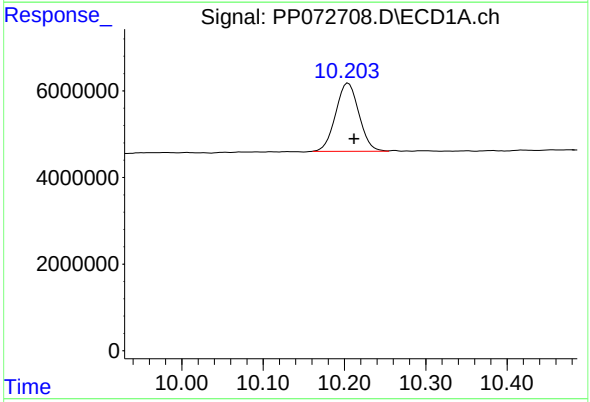
R.T.: 4.503 min
Delta R.T.: 0.005 min
Response: 40435616
Conc: 20.11 ng/ml

Instrument :
ECD_P
ClientSampleId :
PB168325BL



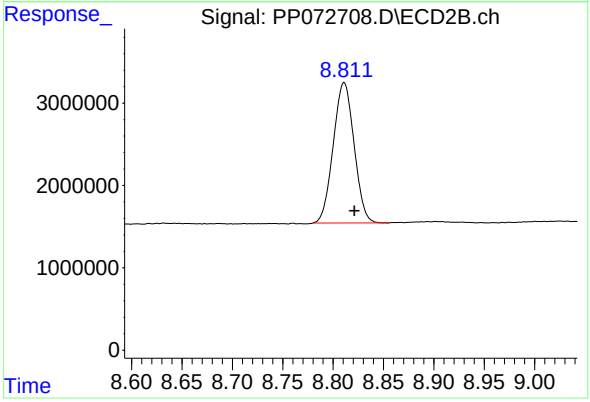
#1 Tetrachloro-m-xylene

R.T.: 3.796 min
Delta R.T.: 0.002 min
Response: 36933542
Conc: 23.11 ng/ml



#2 Decachlorobiphenyl

R.T.: 10.205 min
Delta R.T.: -0.007 min
Response: 31287926
Conc: 19.21 ng/ml



#2 Decachlorobiphenyl

R.T.: 8.811 min
Delta R.T.: -0.010 min
Response: 24518568
Conc: 23.16 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP060525\
Data File : PP072653.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 05 Jun 2025 10:35
Operator : YP\AJ
Sample : PB168288BS
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
ECD_P
ClientSampleId :
PB168288BS

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 05 12:36:03 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP051925.M
Quant Title : GC EXTRACTABLES
QLast Update : Sat May 24 03:32:20 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
1)	SA Tetrachlo...	4.502	3.795	40182858	32876687	19.984	20.569
2)	SA Decachlor...	10.203	8.812	33610597	24904977	20.631	23.526
	Target Compounds						
3)	L1 AR-1016-1	5.654	4.876	30105892	28995217	400.965	472.008
4)	L1 AR-1016-2	5.675	4.894	47092162	42868979	440.148	488.316
5)	L1 AR-1016-3	5.738	5.071	28413026	23374983	433.357	490.510
6)	L1 AR-1016-4	5.834	5.112	23842004	18434560	447.569	484.542
7)	L1 AR-1016-5	6.127	5.326	21105445	23322595	431.523	468.096
31)	L7 AR-1260-1	7.245	6.358	42608656	40837366	455.246	512.043
32)	L7 AR-1260-2	7.498	6.547	65678667	49351371	457.724	486.593
33)	L7 AR-1260-3	7.857	6.699	44818391	44743386	393.590	514.870 #
34)	L7 AR-1260-4	8.080	7.170	43514857	33451530	405.534	464.018
35)	L7 AR-1260-5	8.399	7.412	95999296	81528047	405.638	469.567

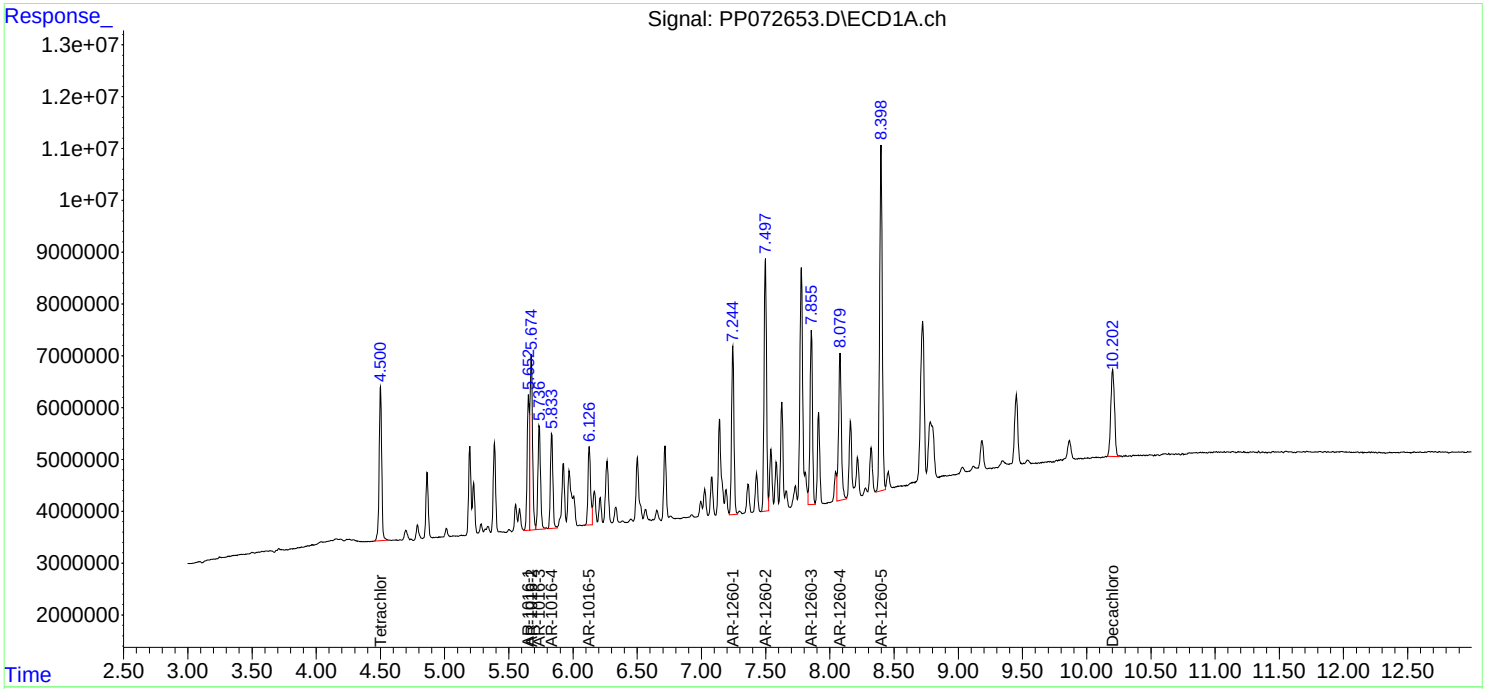
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

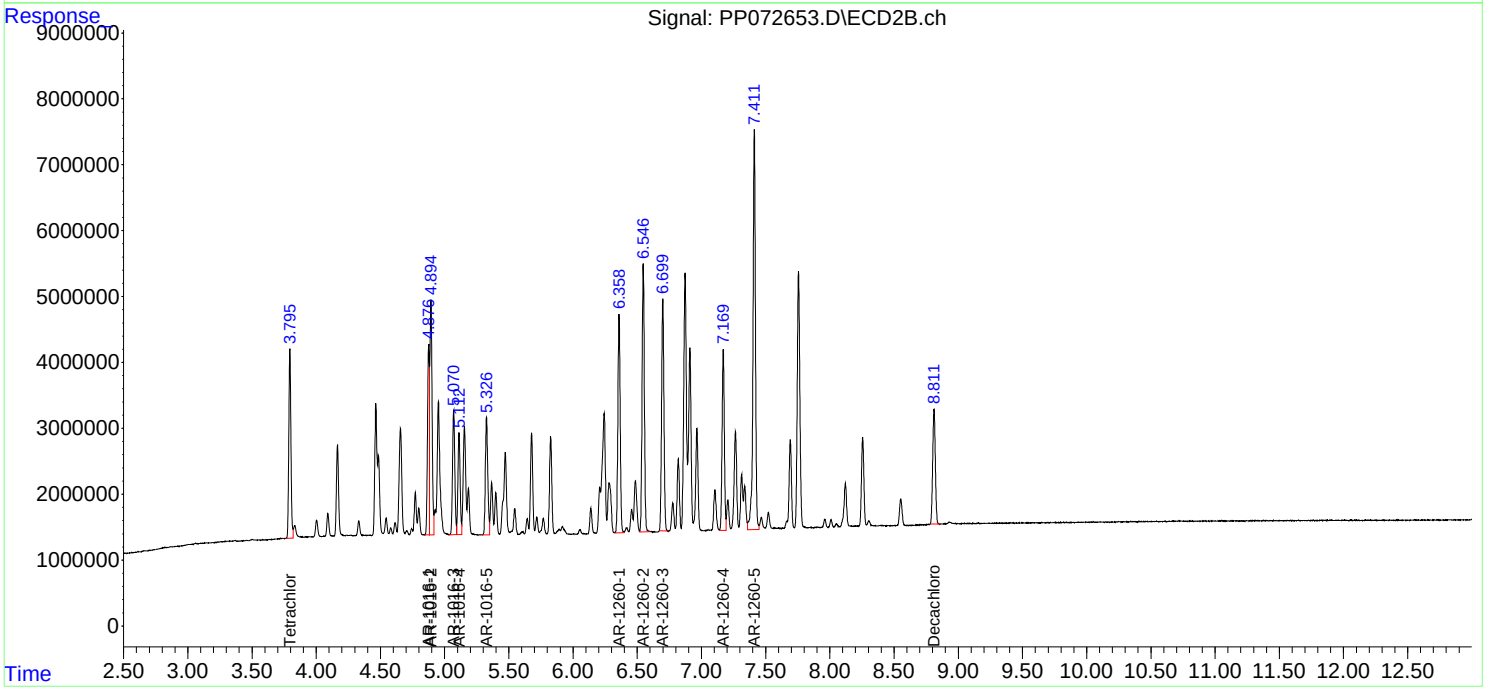
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP060525\
Data File : PP072653.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 05 Jun 2025 10:35
Operator : YP\AJ
Sample : PB168288BS
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
ECD_P
ClientSampleId :
PB168288BS

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 05 12:36:03 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP051925.M
Quant Title : GC EXTRACTABLES
QLast Update : Sat May 24 03:32:20 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm





Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP060925\
Data File : PP072738.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 09 Jun 2025 11:17
Operator : YP\AJ
Sample : PB168325BS
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
ECD_P
ClientSampleId :
PB168325BS

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 06/10/2025
Supervised By :mohammad ahmed 06/11/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 09 13:34:16 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP051925.M
Quant Title : GC EXTRACTABLES
QLast Update : Sat May 24 03:32:20 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
1)	SA Tetrachlo...	4.500	3.794	40766372	33308741	20.274	20.839
2)	SA Decachlor...	10.202	8.809	34447322	24786194	21.145	23.414m
	Target Compounds						
3)	L1 AR-1016-1	5.652	4.876	31049331	29049851	413.530	472.897
4)	L1 AR-1016-2	5.673	4.894	48492058	42294622	453.232	481.774
5)	L1 AR-1016-3	5.736	5.070	29321161	23120335	447.208	485.166
6)	L1 AR-1016-4	5.833	5.112	25105966	18383589	471.297	483.202
7)	L1 AR-1016-5	6.125	5.326	21900584	23038604	447.781	462.396
31)	L7 AR-1260-1	7.242	6.358	44566573	41074220	476.165	515.013
32)	L7 AR-1260-2	7.497	6.547	66068362	49405651	460.440	487.129
33)	L7 AR-1260-3	7.855	6.699	47275975	45345124	415.172	521.794 #
34)	L7 AR-1260-4	8.079	7.169	47654057	33671208	444.109	467.066
35)	L7 AR-1260-5	8.397	7.412	103.9E6	78581489	439.005	452.596

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

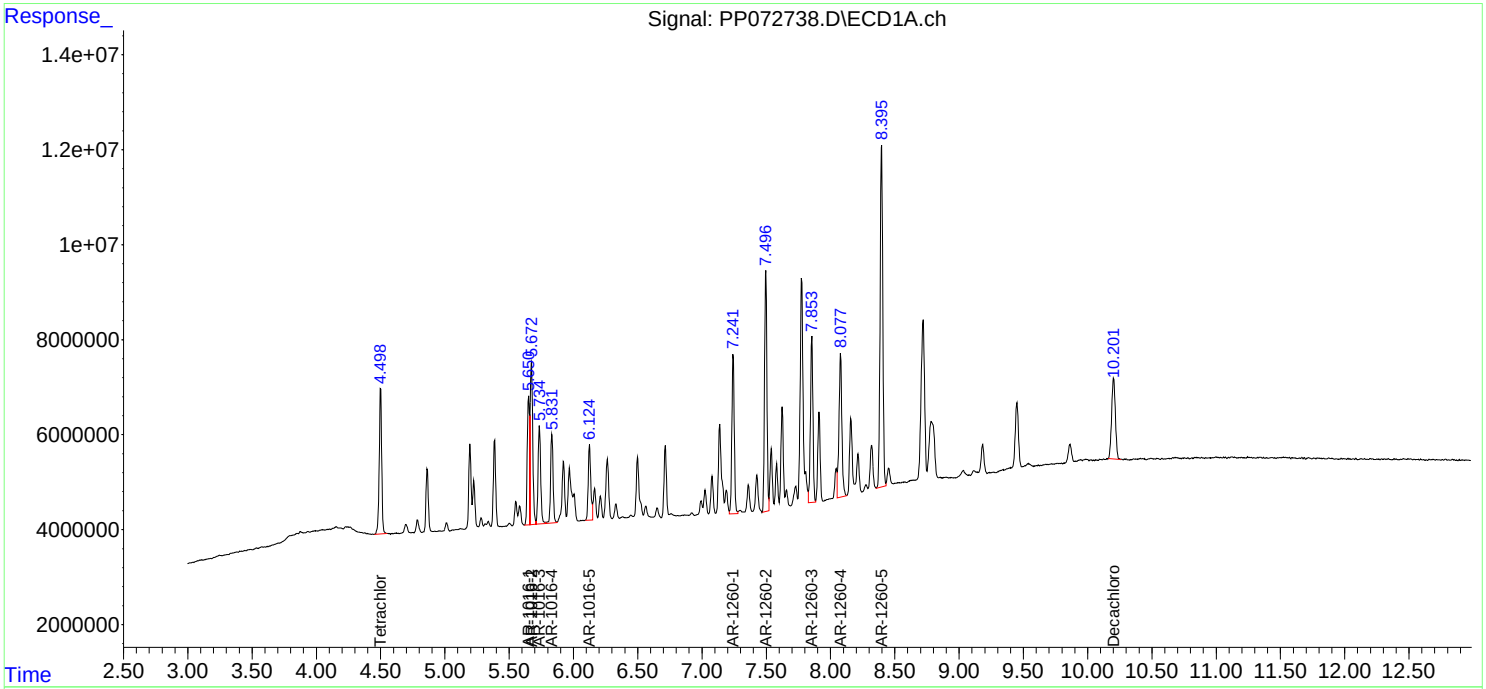
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP060925\
Data File : PP072738.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 09 Jun 2025 11:17
Operator : YP\AJ
Sample : PB168325BS
Misc :
ALS Vial : 8 Sample Multiplier: 1

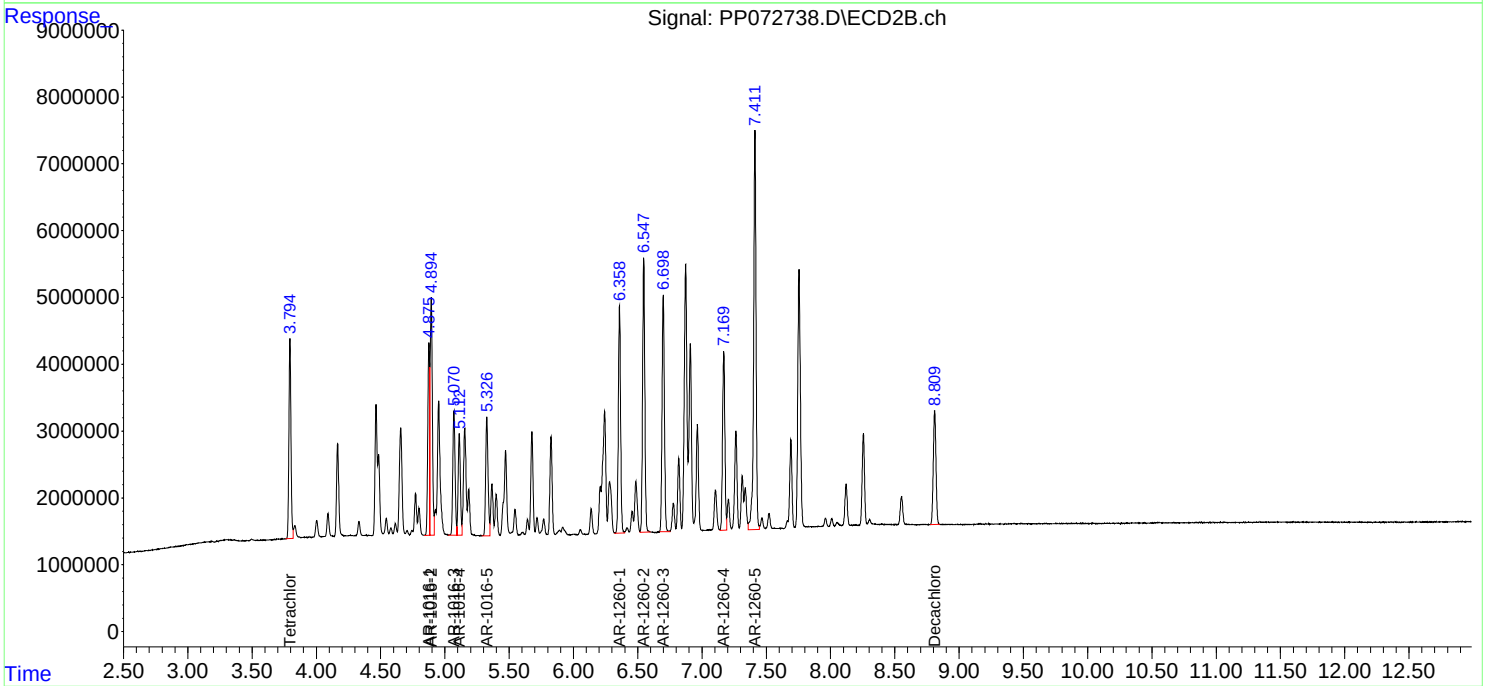
Instrument :
ECD_P
ClientSampleId :
PB168325BS

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 06/10/2025
Supervised By :mohammad ahmed 06/11/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 09 13:34:16 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP051925.M
Quant Title : GC EXTRACTABLES
QLast Update : Sat May 24 03:32:20 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm





Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP060925\
Data File : PP072739.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 09 Jun 2025 11:34
Operator : YP\AJ
Sample : PB168325BSD
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
ECD_P
ClientSampleId :
PB168325BSD

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 06/10/2025
Supervised By :mohammad ahmed 06/11/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 09 13:35:00 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP051925.M
Quant Title : GC EXTRACTABLES
QLast Update : Sat May 24 03:32:20 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
1)	SA Tetrachlo...	4.499	3.793	41324418	33657363	20.551	21.057
2)	SA Decachlor...	10.198	8.807	34694930	24793974	21.297m	23.421m
	Target Compounds						
3)	L1 AR-1016-1	5.651	4.874	31552846	29102188	420.236	473.749
4)	L1 AR-1016-2	5.673	4.892	48335603	42609631	451.770	485.362
5)	L1 AR-1016-3	5.735	5.069	29358934	23054380	447.784	483.782
6)	L1 AR-1016-4	5.833	5.110	24716482	18309901	463.985	481.265
7)	L1 AR-1016-5	6.125	5.324	21774850	23531240	445.210	472.283
31)	L7 AR-1260-1	7.243	6.356	44269998	40737924	472.996	510.797
32)	L7 AR-1260-2	7.496	6.545	65316529	49708642	455.200	490.116
33)	L7 AR-1260-3	7.854	6.697	46492798	44399873	408.294	510.917 #
34)	L7 AR-1260-4	8.078	7.167	46921795	32902672	437.285	456.405
35)	L7 AR-1260-5	8.396	7.409	105.1E6	78909957	444.233	454.488

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

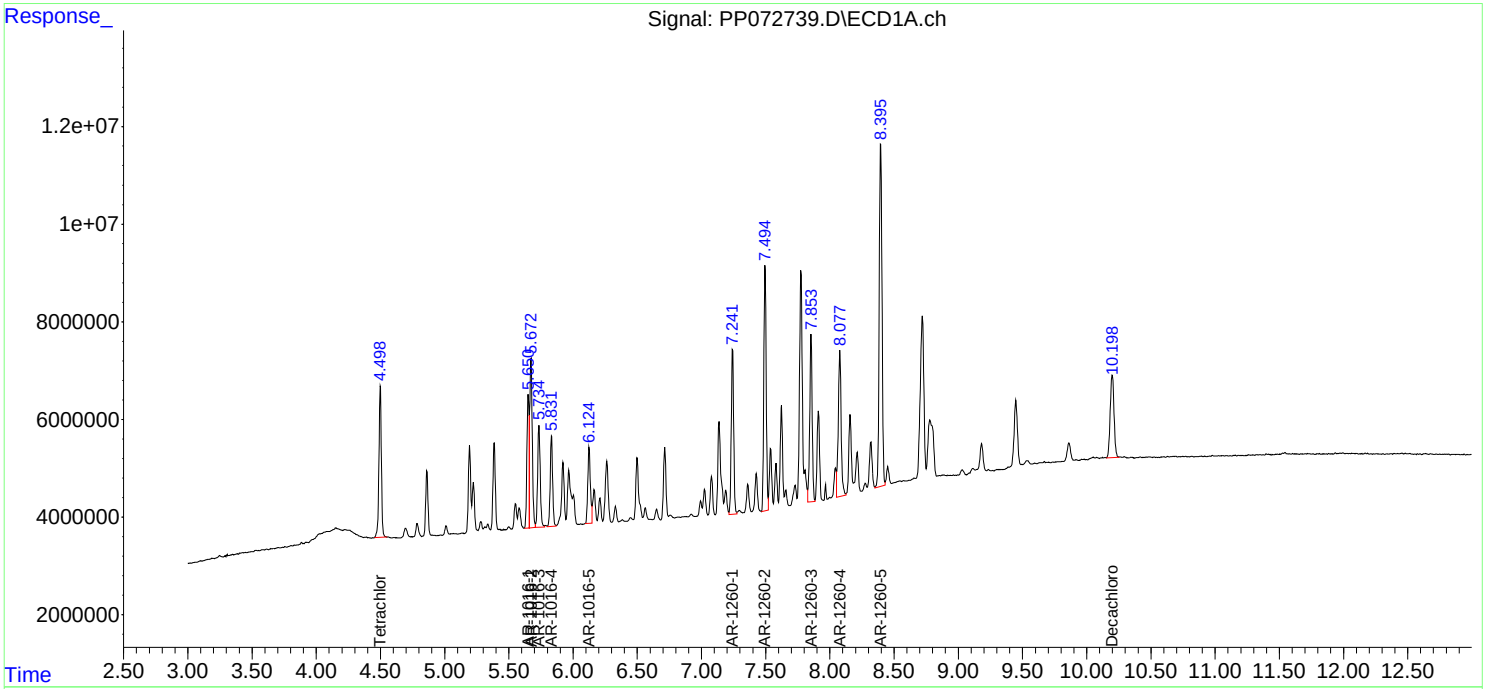
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP060925\
Data File : PP072739.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 09 Jun 2025 11:34
Operator : YP\AJ
Sample : PB168325BSD
Misc :
ALS Vial : 9 Sample Multiplier: 1

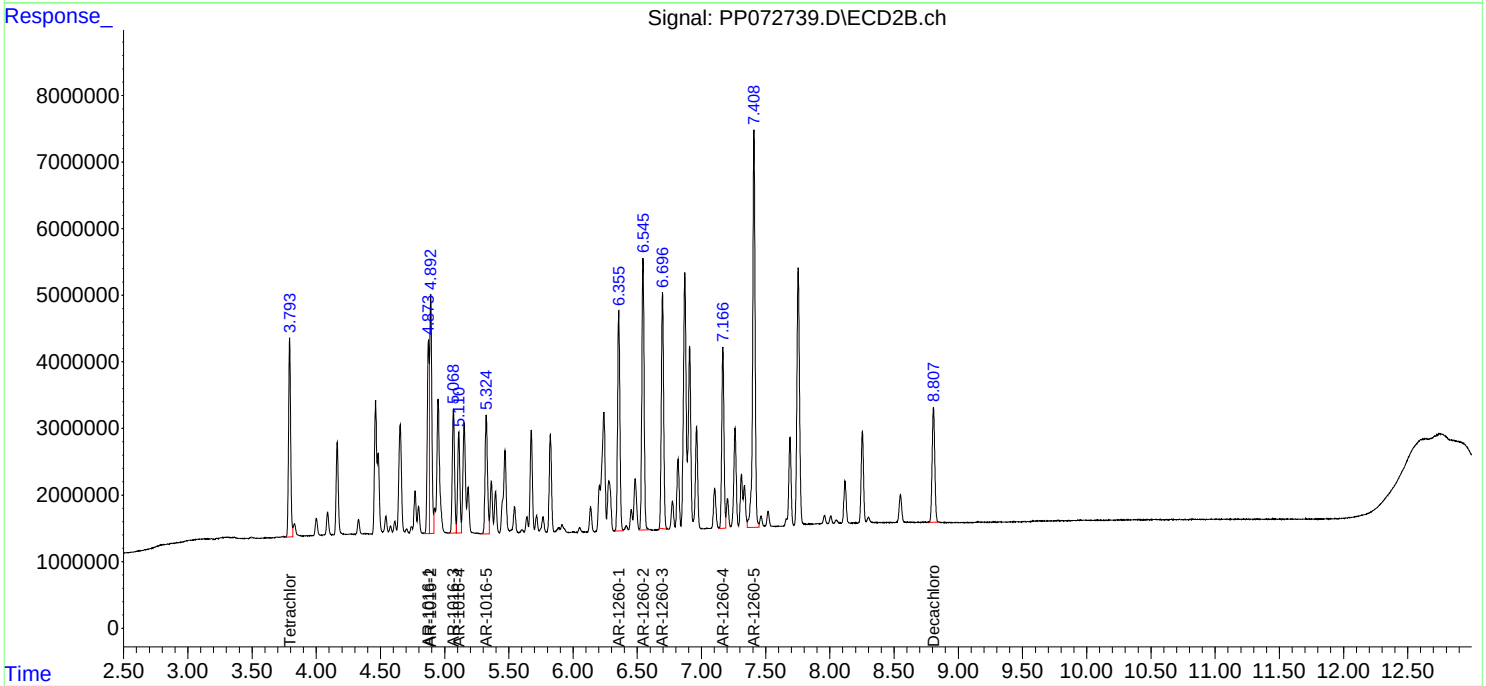
Instrument :
ECD_P
ClientSampleId :
PB168325BSD

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 06/10/2025
Supervised By :mohammad ahmed 06/11/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 09 13:35:00 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP051925.M
Quant Title : GC EXTRACTABLES
QLast Update : Sat May 24 03:32:20 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm





Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP060425\
Data File : PP072631.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 04 Jun 2025 18:07
Operator : YP\AJ
Sample : Q2195-01MS
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument :
ECD_P
ClientSampleId :
OK-01-060325MS

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 06/05/2025
Supervised By :mohammad ahmed 06/06/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 05 01:44:00 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP051925.M
Quant Title : GC EXTRACTABLES
QLast Update : Sat May 24 03:32:20 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
1)	SA Tetrachlo...	4.500	3.797	30155975	31314307	14.997m	19.592 #
2)	SA Decachlor...	10.203	8.813	25649981	20434513	15.745	19.303
	Target Compounds						
3)	L1 AR-1016-1	5.652	4.878	20488369	21076027	272.874m	343.093m#
4)	L1 AR-1016-2	5.674	4.896	33471210	29143056	312.839m	331.966m
5)	L1 AR-1016-3	5.736	5.073	18683012	17247689	284.954m	361.932 #
6)	L1 AR-1016-4	5.834	5.115	17332767	14529755	325.376m	381.906
7)	L1 AR-1016-5	6.125	5.329	15798326	16711774	323.013m	335.413
31)	L7 AR-1260-1	7.244	6.361	28527605	27884841	304.799	349.637
32)	L7 AR-1260-2	7.498	6.550	53393627	33189546	372.108	327.242
33)	L7 AR-1260-3	7.855	6.702	28991529	28654938	254.600	329.737m#
34)	L7 AR-1260-4	8.079	7.172	30726262	22568515	286.351	313.056
35)	L7 AR-1260-5	8.399	7.414	67037062	55185122	283.261	317.843

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

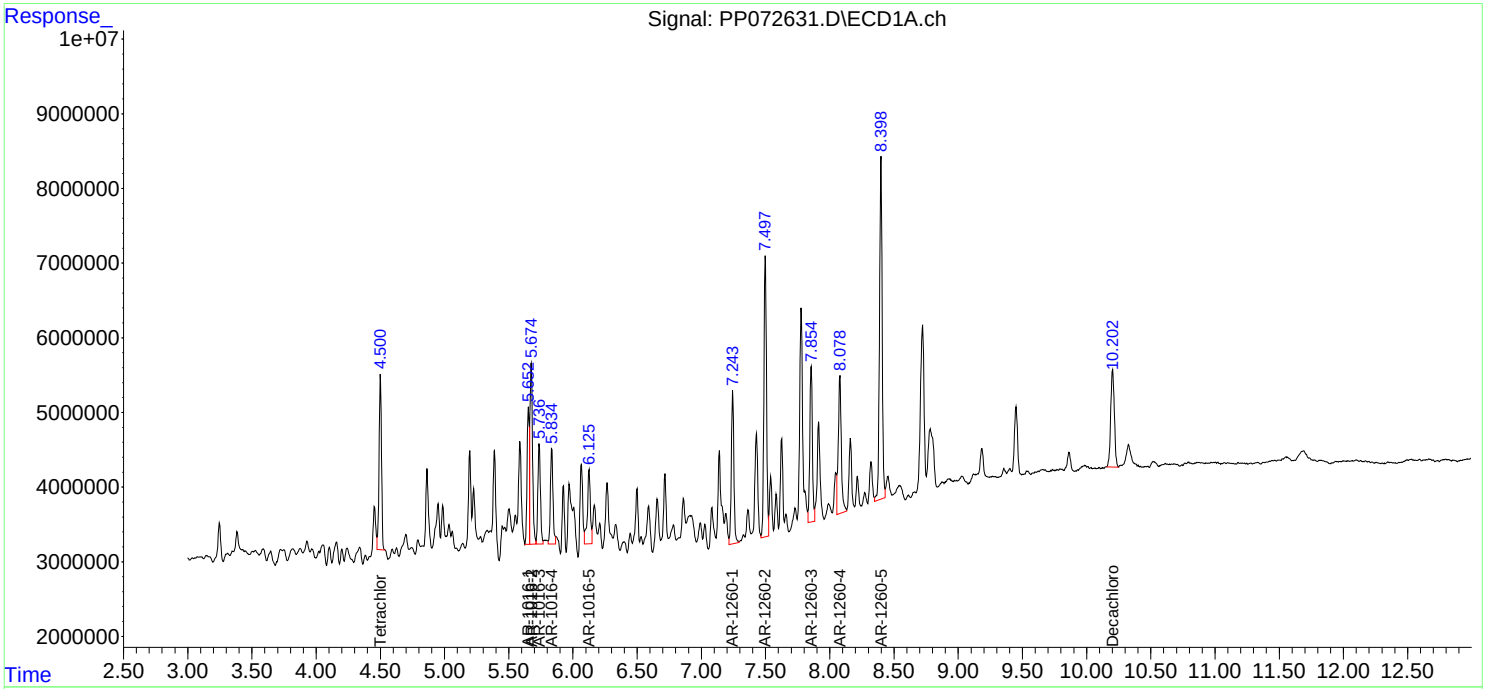
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP060425\
Data File : PP072631.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 04 Jun 2025 18:07
Operator : YP\AJ
Sample : Q2195-01MS
Misc :
ALS Vial : 24 Sample Multiplier: 1

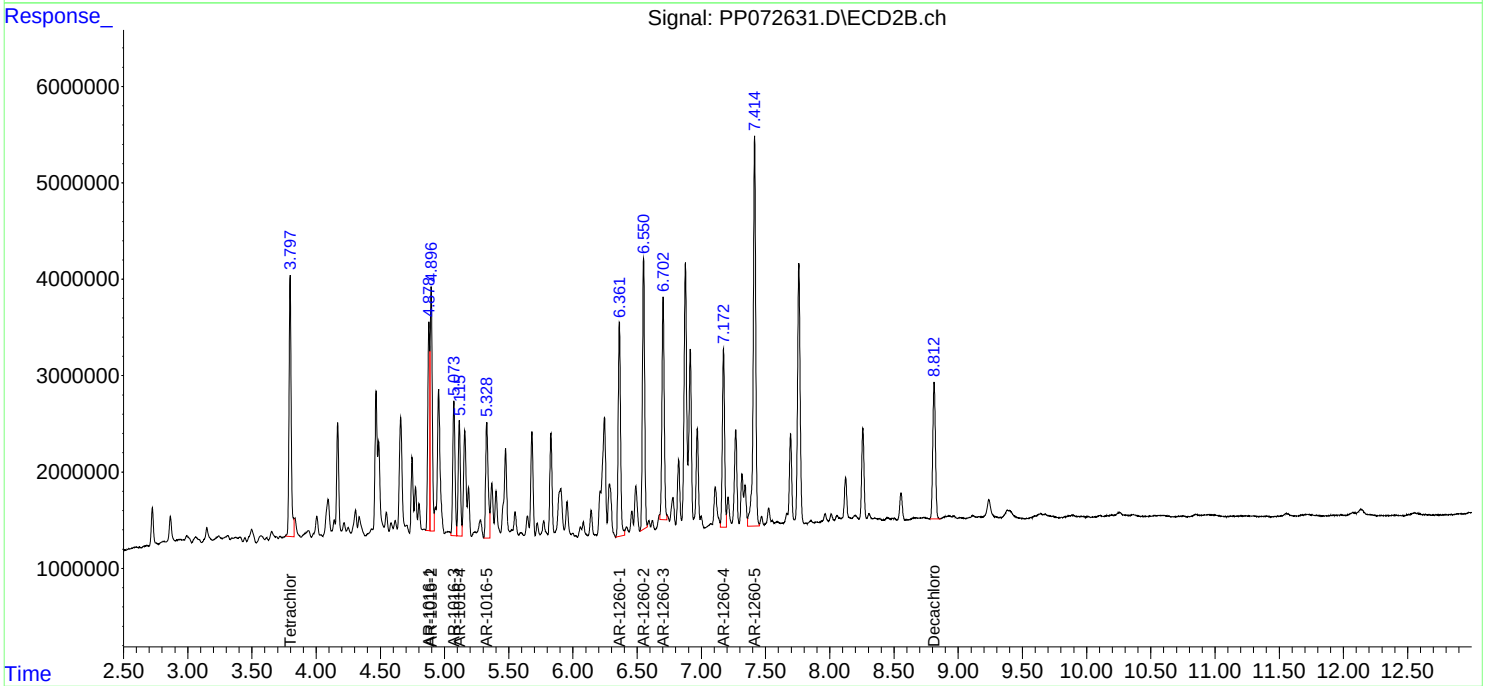
Instrument :
ECD_P
ClientSampleId :
OK-01-060325MS

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 06/05/2025
Supervised By :mohammad ahmed 06/06/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 05 01:44:00 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP051925.M
Quant Title : GC EXTRACTABLES
QLast Update : Sat May 24 03:32:20 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm





Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP060425\
Data File : PP072632.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 04 Jun 2025 18:23
Operator : YP\AJ
Sample : Q2195-01MSD
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument :
ECD_P
ClientSampleId :
OK-01-060325MSD

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 06/05/2025
Supervised By :mohammad ahmed 06/06/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 05 01:44:21 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP051925.M
Quant Title : GC EXTRACTABLES
QLast Update : Sat May 24 03:32:20 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
1)	SA Tetrachlo...	4.502	3.797	29617353	31671392	14.729m	19.815 #
2)	SA Decachlor...	10.206	8.813	24284382	19015688	14.906	17.963
	Target Compounds						
3)	L1 AR-1016-1	5.654	4.877	21302826	22134010	283.721m	360.315m#
4)	L1 AR-1016-2	5.676	4.895	30916688	29370000	288.963m	334.551m
5)	L1 AR-1016-3	5.739	5.072	17006064	16314068	259.377m	342.341m#
6)	L1 AR-1016-4	5.836	5.114	15151110	13371721	284.421m	351.468m
7)	L1 AR-1016-5	6.127	5.328	13688476	16612870	279.875m	333.428
31)	L7 AR-1260-1	7.247	6.360	26528737	27270387	283.442	341.932
32)	L7 AR-1260-2	7.500	6.549	50820183	32682869	354.173	322.246
33)	L7 AR-1260-3	7.858	6.700	27808648	29661647	244.212	341.322m#
34)	L7 AR-1260-4	8.082	7.171	30076353	21228794	280.295	294.472
35)	L7 AR-1260-5	8.400	7.413	65443898	51319256	276.529	295.577

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

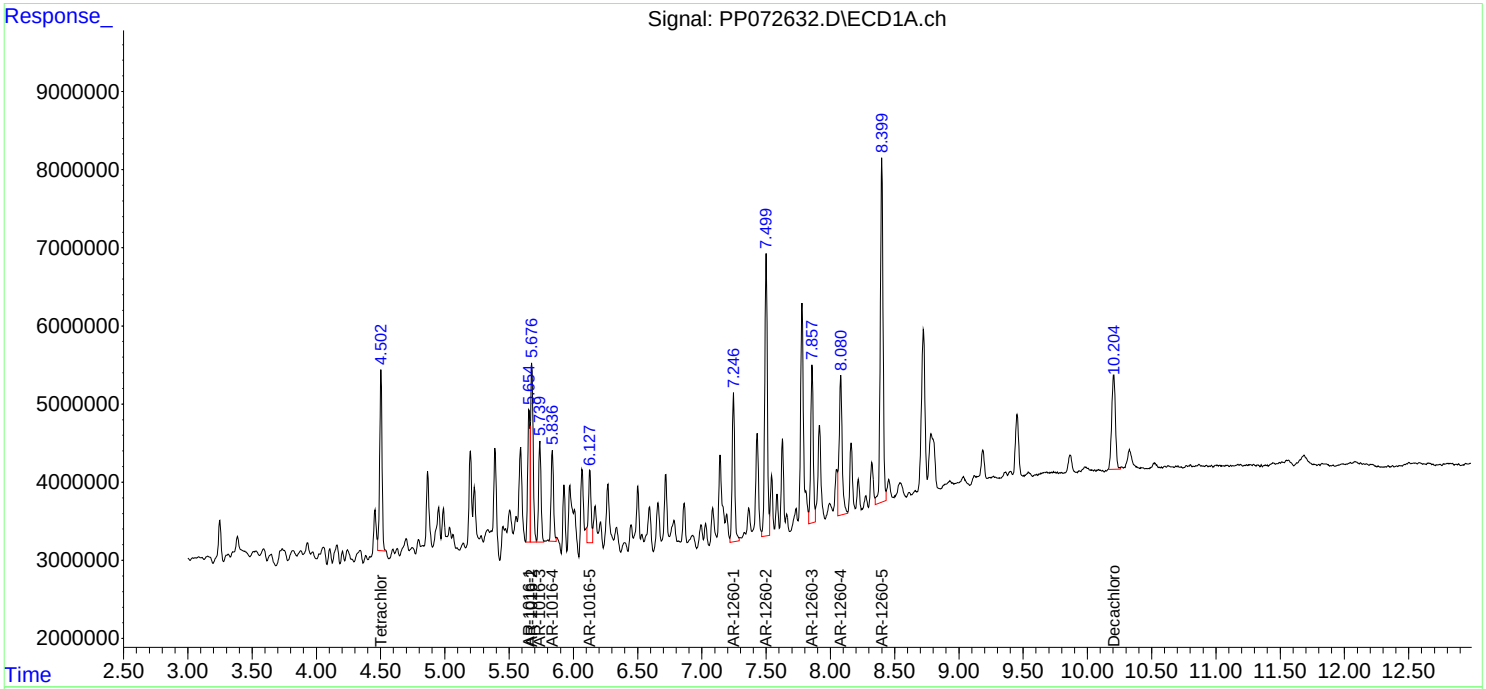
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP060425\
Data File : PP072632.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 04 Jun 2025 18:23
Operator : YP\AJ
Sample : Q2195-01MSD
Misc :
ALS Vial : 25 Sample Multiplier: 1

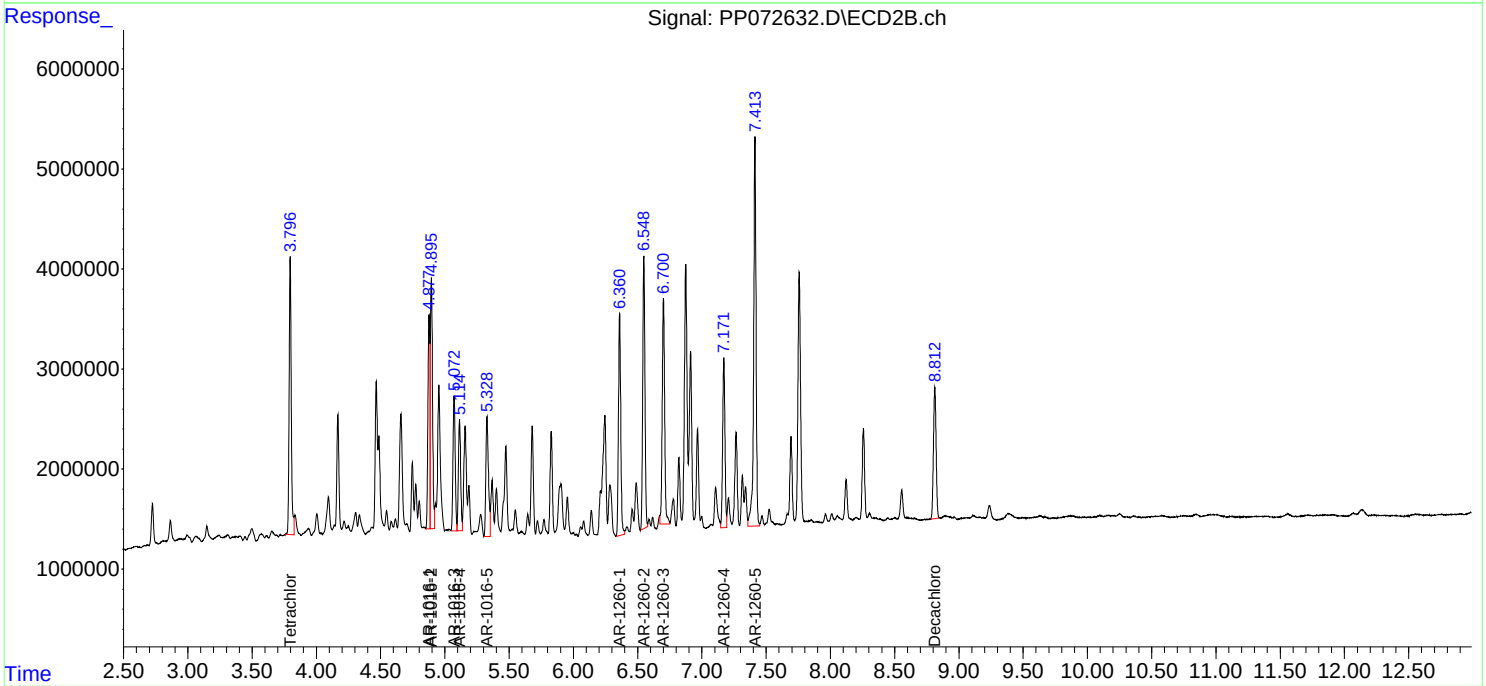
Instrument :
ECD_P
ClientSampleId :
OK-01-060325MSD

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 06/05/2025
Supervised By :mohammad ahmed 06/06/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 05 01:44:21 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP051925.M
Quant Title : GC EXTRACTABLES
QLast Update : Sat May 24 03:32:20 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm





284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

Manual Integration Report

Sequence:	PO051525	Instrument	ECD_o

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
AR1660ICC750	PO111059.D	AR-1260-3 #2	yogesh	5/15/2025 7:37:11 AM	mohammad	5/16/2025 1:55:32	Peak Integrated by Software
AR1660ICC250	PO111061.D	AR-1016-3	yogesh	5/15/2025 7:37:15 AM	mohammad	5/16/2025 1:55:32	Peak Integrated by Software
AR1660ICC050	PO111062.D	AR-1260-1	yogesh	5/15/2025 7:37:17 AM	mohammad	5/16/2025 1:55:32	Peak Integrated by Software
AR1660ICC050	PO111062.D	AR-1260-2	yogesh	5/15/2025 7:37:17 AM	mohammad	5/16/2025 1:55:32	Peak Integrated by Software
AR1660ICC050	PO111062.D	AR-1260-3 #2	yogesh	5/15/2025 7:37:17 AM	mohammad	5/16/2025 1:55:32	Peak Integrated by Software

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Manual Integration Report

Sequence:	po060425	Instrument	ECD_o

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
AR1660CCC50 0	PO111453.D	Decachlorobiphenyl #2	yogesh	6/5/2025 7:35:43 AM	mohammad	6/6/2025 2:01:29	Peak Integrated by Software
AR1242CCC50 0	PO111454.D	Decachlorobiphenyl #2	yogesh	6/5/2025 7:35:46 AM	mohammad	6/6/2025 2:01:29	Peak Integrated by Software
AR1248CCC50 0	PO111455.D	AR-1248-3	yogesh	6/5/2025 7:35:48 AM	mohammad	6/6/2025 2:01:29	Peak Integrated by Software
AR1248CCC50 0	PO111455.D	Decachlorobiphenyl #2	yogesh	6/5/2025 7:35:48 AM	mohammad	6/6/2025 2:01:29	Peak Integrated by Software
AR1254CCC50 0	PO111456.D	Decachlorobiphenyl #2	yogesh	6/5/2025 7:35:50 AM	mohammad	6/6/2025 2:01:29	Peak Integrated by Software
I.BLK	PO111457.D	Decachlorobiphenyl #2	yogesh	6/5/2025 7:35:53 AM	mohammad	6/6/2025 2:01:29	Peak Integrated by Software
AR1660CCC50 0	PO111468.D	AR-1016-5	yogesh	6/5/2025 7:36:17 AM	mohammad	6/6/2025 2:01:29	Peak Integrated by Software
AR1660CCC50 0	PO111468.D	AR-1016-5 #2	yogesh	6/5/2025 7:36:17 AM	mohammad	6/6/2025 2:01:29	Peak Integrated by Software
AR1660CCC50 0	PO111468.D	Decachlorobiphenyl	yogesh	6/5/2025 7:36:17 AM	mohammad	6/6/2025 2:01:29	Peak Integrated by Software
AR1660CCC50 0	PO111468.D	Decachlorobiphenyl #2	yogesh	6/5/2025 7:36:17 AM	mohammad	6/6/2025 2:01:29	Peak Integrated by Software
AR1242CCC50 0	PO111469.D	Decachlorobiphenyl	yogesh	6/5/2025 7:36:19 AM	mohammad	6/6/2025 2:01:29	Peak Integrated by Software
AR1242CCC50 0	PO111469.D	Decachlorobiphenyl #2	yogesh	6/5/2025 7:36:19 AM	mohammad	6/6/2025 2:01:29	Peak Integrated by Software
AR1248CCC50 0	PO111470.D	AR-1248-3	yogesh	6/5/2025 7:36:20 AM	mohammad	6/6/2025 2:01:29	Peak Integrated by Software

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Manual Integration Report

Sequence:	po060425	Instrument	ECD_o

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
AR1248CCC500	PO111470.D	AR-1248-4 #2	yogesh	6/5/2025 7:36:20 AM	mohammad	6/6/2025 2:01:29	Peak Integrated by Software
AR1248CCC500	PO111470.D	Decachlorobiphenyl	yogesh	6/5/2025 7:36:20 AM	mohammad	6/6/2025 2:01:29	Peak Integrated by Software
AR1248CCC500	PO111470.D	Decachlorobiphenyl #2	yogesh	6/5/2025 7:36:20 AM	mohammad	6/6/2025 2:01:29	Peak Integrated by Software
AR1254CCC500	PO111471.D	Decachlorobiphenyl	yogesh	6/5/2025 7:36:22 AM	mohammad	6/6/2025 2:01:29	Peak Integrated by Software
AR1254CCC500	PO111471.D	Decachlorobiphenyl #2	yogesh	6/5/2025 7:36:22 AM	mohammad	6/6/2025 2:01:29	Peak Integrated by Software
I.BLK	PO111472.D	Decachlorobiphenyl	yogesh	6/5/2025 7:36:24 AM	mohammad	6/6/2025 2:01:29	Peak Integrated by Software
I.BLK	PO111472.D	Decachlorobiphenyl #2	yogesh	6/5/2025 7:36:24 AM	mohammad	6/6/2025 2:01:29	Peak Integrated by Software
Q2198-03	PO111473.D	Decachlorobiphenyl	yogesh	6/5/2025 7:36:57 AM	mohammad	6/6/2025 2:01:29	Peak Integrated by Software
Q2198-03	PO111473.D	Decachlorobiphenyl #2	yogesh	6/5/2025 7:36:57 AM	mohammad	6/6/2025 2:01:29	Peak Integrated by Software
AR1660CCC500	PO111477.D	AR-1016-5	yogesh	6/5/2025 7:36:32 AM	mohammad	6/6/2025 2:01:29	Peak Integrated by Software
AR1660CCC500	PO111477.D	AR-1016-5 #2	yogesh	6/5/2025 7:36:32 AM	mohammad	6/6/2025 2:01:29	Peak Integrated by Software
AR1660CCC500	PO111477.D	Decachlorobiphenyl	yogesh	6/5/2025 7:36:32 AM	mohammad	6/6/2025 2:01:29	Peak Integrated by Software
AR1660CCC500	PO111477.D	Decachlorobiphenyl #2	yogesh	6/5/2025 7:36:32 AM	mohammad	6/6/2025 2:01:29	Peak Integrated by Software

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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
AR1242CCC500	PO111478.D	AR-1242-3 #2	yogesh	6/5/2025 7:36:34 AM	mohammad	6/6/2025 2:01:29	Peak Integrated by Software
AR1242CCC500	PO111478.D	Decachlorobiphenyl	yogesh	6/5/2025 7:36:34 AM	mohammad	6/6/2025 2:01:29	Peak Integrated by Software
AR1242CCC500	PO111478.D	Decachlorobiphenyl #2	yogesh	6/5/2025 7:36:34 AM	mohammad	6/6/2025 2:01:29	Peak Integrated by Software
AR1248CCC500	PO111479.D	AR-1248-3	yogesh	6/5/2025 7:36:36 AM	mohammad	6/6/2025 2:01:29	Peak Integrated by Software
AR1248CCC500	PO111479.D	AR-1248-4 #2	yogesh	6/5/2025 7:36:36 AM	mohammad	6/6/2025 2:01:29	Peak Integrated by Software
AR1248CCC500	PO111479.D	Decachlorobiphenyl	yogesh	6/5/2025 7:36:36 AM	mohammad	6/6/2025 2:01:29	Peak Integrated by Software
AR1248CCC500	PO111479.D	Decachlorobiphenyl #2	yogesh	6/5/2025 7:36:36 AM	mohammad	6/6/2025 2:01:29	Peak Integrated by Software
AR1254CCC500	PO111480.D	Decachlorobiphenyl	yogesh	6/5/2025 7:36:38 AM	mohammad	6/6/2025 2:01:29	Peak Integrated by Software
AR1254CCC500	PO111480.D	Decachlorobiphenyl #2	yogesh	6/5/2025 7:36:38 AM	mohammad	6/6/2025 2:01:29	Peak Integrated by Software
I.BLK	PO111481.D	Decachlorobiphenyl	yogesh	6/5/2025 7:36:39 AM	mohammad	6/6/2025 2:01:29	Peak Integrated by Software
I.BLK	PO111481.D	Decachlorobiphenyl #2	yogesh	6/5/2025 7:36:39 AM	mohammad	6/6/2025 2:01:29	Peak Integrated by Software

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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
AR1660ICC050	PP072168.D	AR-1016-1	yogesh	5/20/2025 7:28:08 AM	mohammad	5/22/2025 6:37:35	Peak Integrated by Software
AR1660ICC050	PP072168.D	AR-1016-2	yogesh	5/20/2025 7:28:08 AM	mohammad	5/22/2025 6:37:35	Peak Integrated by Software
AR1660ICC050	PP072168.D	AR-1016-3	yogesh	5/20/2025 7:28:08 AM	mohammad	5/22/2025 6:37:35	Peak Integrated by Software
AR1660ICC050	PP072168.D	AR-1016-4	yogesh	5/20/2025 7:28:08 AM	mohammad	5/22/2025 6:37:35	Peak Integrated by Software
AR1232ICC050	PP072174.D	AR-1232-3	yogesh	5/21/2025 8:50:30 AM	mohammad	5/22/2025 6:37:35	Peak Integrated by Software
AR1232ICC050	PP072174.D	AR-1232-4	yogesh	5/21/2025 8:50:30 AM	mohammad	5/22/2025 6:37:35	Peak Integrated by Software
AR1242ICC050	PP072179.D	AR-1242-1	yogesh	5/20/2025 7:28:10 AM	mohammad	5/22/2025 6:37:35	Peak Integrated by Software
AR1242ICC050	PP072179.D	AR-1242-2	yogesh	5/20/2025 7:28:10 AM	mohammad	5/22/2025 6:37:35	Peak Integrated by Software
AR1242ICC050	PP072179.D	AR-1242-3	yogesh	5/20/2025 7:28:10 AM	mohammad	5/22/2025 6:37:35	Peak Integrated by Software
AR1242ICC050	PP072179.D	AR-1242-4	yogesh	5/20/2025 7:28:10 AM	mohammad	5/22/2025 6:37:35	Peak Integrated by Software
AR1242ICC050	PP072179.D	AR-1242-5	yogesh	5/20/2025 7:28:10 AM	mohammad	5/22/2025 6:37:35	Peak Integrated by Software
AR1242ICC050	PP072179.D	AR-1242-5 #2	yogesh	5/20/2025 7:28:10 AM	mohammad	5/22/2025 6:37:35	Peak Integrated by Software
AR1248ICC050	PP072184.D	AR-1248-1	yogesh	5/20/2025 7:28:12 AM	mohammad	5/22/2025 6:37:35	Peak Integrated by Software

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Sequence:	PP051925	Instrument	ECD_p

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
AR1248ICC050	PP072184.D	AR-1248-4 #2	yogesh	5/20/2025 7:28:12 AM	mohammad	5/22/2025 6:37:35	Peak Integrated by Software
AR1254ICC050	PP072189.D	AR-1254-1	yogesh	5/20/2025 7:28:14 AM	mohammad	5/22/2025 6:37:35	Peak Integrated by Software
AR1254ICC050	PP072189.D	AR-1254-4	yogesh	5/20/2025 7:28:14 AM	mohammad	5/22/2025 6:37:35	Peak Integrated by Software
AR1254ICC050	PP072189.D	AR-1254-4 #2	yogesh	5/20/2025 7:28:14 AM	mohammad	5/22/2025 6:37:35	Peak Integrated by Software
AR1254ICC050	PP072189.D	Tetrachloro-m-xylene	yogesh	5/20/2025 7:28:14 AM	mohammad	5/22/2025 6:37:35	Peak Integrated by Software
AR1254ICC050	PP072189.D	Tetrachloro-m-xylene #2	yogesh	5/20/2025 7:28:14 AM	mohammad	5/22/2025 6:37:35	Peak Integrated by Software
AR1268ICC050	PP072195.D	AR-1268-1	yogesh	5/20/2025 7:28:15 AM	mohammad	5/22/2025 6:37:35	Peak Integrated by Software
AR1268ICC050	PP072195.D	Tetrachloro-m-xylene	yogesh	5/20/2025 7:28:15 AM	mohammad	5/22/2025 6:37:35	Peak Integrated by Software

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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
AR1660CCC500	PP072604.D	AR-1260-3 #2	yogesh	6/5/2025 7:31:30 AM	mohammad	6/6/2025 9:37:42	Peak Integrated by Software
AR1660CCC500	PP072604.D	Decachlorobiphenyl	yogesh	6/5/2025 7:31:30 AM	mohammad	6/6/2025 9:37:42	Peak Integrated by Software
AR1660CCC500	PP072604.D	Decachlorobiphenyl #2	yogesh	6/5/2025 7:31:30 AM	mohammad	6/6/2025 9:37:42	Peak Integrated by Software
AR1242CCC500	PP072605.D	Decachlorobiphenyl #2	yogesh	6/5/2025 7:31:32 AM	mohammad	6/6/2025 9:37:42	Peak Integrated by Software
AR1248CCC500	PP072606.D	Decachlorobiphenyl	yogesh	6/5/2025 7:31:33 AM	mohammad	6/6/2025 9:37:42	Peak Integrated by Software
AR1248CCC500	PP072606.D	Decachlorobiphenyl #2	yogesh	6/5/2025 7:31:33 AM	mohammad	6/6/2025 9:37:42	Peak Integrated by Software
AR1254CCC500	PP072607.D	Decachlorobiphenyl	yogesh	6/5/2025 7:31:35 AM	mohammad	6/6/2025 9:37:42	Peak Integrated by Software
AR1254CCC500	PP072607.D	Decachlorobiphenyl #2	yogesh	6/5/2025 7:31:35 AM	mohammad	6/6/2025 9:37:42	Peak Integrated by Software
I.BLK	PP072608.D	Decachlorobiphenyl #2	yogesh	6/5/2025 7:31:37 AM	mohammad	6/6/2025 9:37:42	Peak Integrated by Software
AR1660CCC500	PP072619.D	AR-1260-3 #2	yogesh	6/5/2025 7:33:36 AM	mohammad	6/6/2025 9:37:42	Peak Integrated by Software
AR1660CCC500	PP072619.D	Decachlorobiphenyl	yogesh	6/5/2025 7:33:36 AM	mohammad	6/6/2025 9:37:42	Peak Integrated by Software
AR1660CCC500	PP072619.D	Decachlorobiphenyl #2	yogesh	6/5/2025 7:33:36 AM	mohammad	6/6/2025 9:37:42	Peak Integrated by Software
AR1242CCC500	PP072620.D	Decachlorobiphenyl #2	yogesh	6/5/2025 7:33:38 AM	mohammad	6/6/2025 9:37:42	Peak Integrated by Software

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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
AR1248CCC500	PP072621.D	Decachlorobiphenyl	yogesh	6/5/2025 7:33:41 AM	mohammad	6/6/2025 9:37:42	Peak Integrated by Software
AR1248CCC500	PP072621.D	Decachlorobiphenyl #2	yogesh	6/5/2025 7:33:41 AM	mohammad	6/6/2025 9:37:42	Peak Integrated by Software
AR1254CCC500	PP072622.D	Decachlorobiphenyl	yogesh	6/5/2025 7:33:43 AM	mohammad	6/6/2025 9:37:42	Peak Integrated by Software
AR1254CCC500	PP072622.D	Decachlorobiphenyl #2	yogesh	6/5/2025 7:33:43 AM	mohammad	6/6/2025 9:37:42	Peak Integrated by Software
PB168288BL	PP072624.D	Decachlorobiphenyl	yogesh	6/5/2025 7:33:45 AM	mohammad	6/6/2025 9:37:42	Peak Integrated by Software
PB168288BL	PP072624.D	Decachlorobiphenyl #2	yogesh	6/5/2025 7:33:45 AM	mohammad	6/6/2025 9:37:42	Peak Integrated by Software
Q2195-01MS	PP072631.D	AR-1016-1	yogesh	6/5/2025 7:33:55 AM	mohammad	6/6/2025 9:37:42	Peak Integrated by Software
Q2195-01MS	PP072631.D	AR-1016-1 #2	yogesh	6/5/2025 7:33:55 AM	mohammad	6/6/2025 9:37:42	Peak Integrated by Software
Q2195-01MS	PP072631.D	AR-1016-2	yogesh	6/5/2025 7:33:55 AM	mohammad	6/6/2025 9:37:42	Peak Integrated by Software
Q2195-01MS	PP072631.D	AR-1016-2 #2	yogesh	6/5/2025 7:33:55 AM	mohammad	6/6/2025 9:37:42	Peak Integrated by Software
Q2195-01MS	PP072631.D	AR-1016-3	yogesh	6/5/2025 7:33:55 AM	mohammad	6/6/2025 9:37:42	Peak Integrated by Software
Q2195-01MS	PP072631.D	AR-1016-4	yogesh	6/5/2025 7:33:55 AM	mohammad	6/6/2025 9:37:42	Peak Integrated by Software
Q2195-01MS	PP072631.D	AR-1016-5	yogesh	6/5/2025 7:33:55 AM	mohammad	6/6/2025 9:37:42	Peak Integrated by Software

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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q2195-01MS	PP072631.D	AR-1260-3 #2	yogesh	6/5/2025 7:33:55 AM	mohammad	6/6/2025 9:37:42	Peak Integrated by Software
Q2195-01MS	PP072631.D	Tetrachloro-m-xylene	yogesh	6/5/2025 7:33:55 AM	mohammad	6/6/2025 9:37:42	Peak Integrated by Software
Q2195-01MSD	PP072632.D	AR-1016-1	yogesh	6/5/2025 7:33:57 AM	mohammad	6/6/2025 9:37:42	Peak Integrated by Software
Q2195-01MSD	PP072632.D	AR-1016-1 #2	yogesh	6/5/2025 7:33:57 AM	mohammad	6/6/2025 9:37:42	Peak Integrated by Software
Q2195-01MSD	PP072632.D	AR-1016-2	yogesh	6/5/2025 7:33:57 AM	mohammad	6/6/2025 9:37:42	Peak Integrated by Software
Q2195-01MSD	PP072632.D	AR-1016-2 #2	yogesh	6/5/2025 7:33:57 AM	mohammad	6/6/2025 9:37:42	Peak Integrated by Software
Q2195-01MSD	PP072632.D	AR-1016-3	yogesh	6/5/2025 7:33:57 AM	mohammad	6/6/2025 9:37:42	Peak Integrated by Software
Q2195-01MSD	PP072632.D	AR-1016-3 #2	yogesh	6/5/2025 7:33:57 AM	mohammad	6/6/2025 9:37:42	Peak Integrated by Software
Q2195-01MSD	PP072632.D	AR-1016-4	yogesh	6/5/2025 7:33:57 AM	mohammad	6/6/2025 9:37:42	Peak Integrated by Software
Q2195-01MSD	PP072632.D	AR-1016-4 #2	yogesh	6/5/2025 7:33:57 AM	mohammad	6/6/2025 9:37:42	Peak Integrated by Software
Q2195-01MSD	PP072632.D	AR-1016-5	yogesh	6/5/2025 7:33:57 AM	mohammad	6/6/2025 9:37:42	Peak Integrated by Software
Q2195-01MSD	PP072632.D	AR-1260-3 #2	yogesh	6/5/2025 7:33:57 AM	mohammad	6/6/2025 9:37:42	Peak Integrated by Software
Q2195-01MSD	PP072632.D	Tetrachloro-m-xylene	yogesh	6/5/2025 7:33:57 AM	mohammad	6/6/2025 9:37:42	Peak Integrated by Software

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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q2198-01	PP072633.D	Tetrachloro-m-xylene	yogesh	6/5/2025 7:34:00 AM	mohammad	6/6/2025 9:37:42	Peak Integrated by Software
AR1248CCC500	PP072636.D	Decachlorobiphenyl	yogesh	6/5/2025 7:34:03 AM	mohammad	6/6/2025 9:37:42	Peak Integrated by Software
AR1248CCC500	PP072636.D	Decachlorobiphenyl #2	yogesh	6/5/2025 7:34:03 AM	mohammad	6/6/2025 9:37:42	Peak Integrated by Software
AR1254CCC500	PP072637.D	Decachlorobiphenyl	yogesh	6/5/2025 7:34:05 AM	mohammad	6/6/2025 9:37:42	Peak Integrated by Software
AR1254CCC500	PP072637.D	Decachlorobiphenyl #2	yogesh	6/5/2025 7:34:05 AM	mohammad	6/6/2025 9:37:42	Peak Integrated by Software
I.BLK	PP072638.D	Decachlorobiphenyl	yogesh	6/5/2025 7:34:07 AM	mohammad	6/6/2025 9:37:42	Peak Integrated by Software
I.BLK	PP072638.D	Decachlorobiphenyl #2	yogesh	6/5/2025 7:34:07 AM	mohammad	6/6/2025 9:37:42	Peak Integrated by Software
AR1660CCC500	PP072641.D	AR-1260-3 #2	yogesh	6/5/2025 7:34:14 AM	mohammad	6/6/2025 9:37:42	Peak Integrated by Software
AR1660CCC500	PP072641.D	Decachlorobiphenyl	yogesh	6/5/2025 7:34:14 AM	mohammad	6/6/2025 9:37:42	Peak Integrated by Software
AR1660CCC500	PP072641.D	Decachlorobiphenyl #2	yogesh	6/5/2025 7:34:14 AM	mohammad	6/6/2025 9:37:42	Peak Integrated by Software
AR1242CCC500	PP072642.D	Decachlorobiphenyl	yogesh	6/5/2025 7:34:15 AM	mohammad	6/6/2025 9:37:42	Peak Integrated by Software
AR1242CCC500	PP072642.D	Decachlorobiphenyl #2	yogesh	6/5/2025 7:34:15 AM	mohammad	6/6/2025 9:37:42	Peak Integrated by Software
AR1248CCC500	PP072643.D	Decachlorobiphenyl	yogesh	6/5/2025 7:34:17 AM	mohammad	6/6/2025 9:37:42	Peak Integrated by Software

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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
AR1248CCC500	PP072643.D	Decachlorobiphenyl #2	yogesh	6/5/2025 7:34:17 AM	mohammad	6/6/2025 9:37:42	Peak Integrated by Software
AR1254CCC500	PP072644.D	Decachlorobiphenyl	yogesh	6/5/2025 7:34:19 AM	mohammad	6/6/2025 9:37:42	Peak Integrated by Software
AR1254CCC500	PP072644.D	Decachlorobiphenyl #2	yogesh	6/5/2025 7:34:19 AM	mohammad	6/6/2025 9:37:42	Peak Integrated by Software
I.BLK	PP072645.D	Decachlorobiphenyl	yogesh	6/5/2025 7:34:21 AM	mohammad	6/6/2025 9:37:42	Peak Integrated by Software
I.BLK	PP072645.D	Decachlorobiphenyl #2	yogesh	6/5/2025 7:34:21 AM	mohammad	6/6/2025 9:37:42	Peak Integrated by Software

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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
AR1660CCC50 0	PP072647.D	AR-1260-3 #2	yogesh	6/5/2025 2:32:54 PM	mohammad	6/9/2025 6:08:35	Peak Integrated by Software
AR1660CCC50 0	PP072647.D	Decachlorobiphenyl	yogesh	6/5/2025 2:32:54 PM	mohammad	6/9/2025 6:08:35	Peak Integrated by Software
AR1660CCC50 0	PP072647.D	Decachlorobiphenyl #2	yogesh	6/5/2025 2:32:54 PM	mohammad	6/9/2025 6:08:35	Peak Integrated by Software
AR1242CCC50 0	PP072648.D	Decachlorobiphenyl	yogesh	6/5/2025 2:32:55 PM	mohammad	6/9/2025 6:08:35	Peak Integrated by Software
AR1242CCC50 0	PP072648.D	Decachlorobiphenyl #2	yogesh	6/5/2025 2:32:55 PM	mohammad	6/9/2025 6:08:35	Peak Integrated by Software
AR1248CCC50 0	PP072649.D	Decachlorobiphenyl	yogesh	6/5/2025 2:32:57 PM	mohammad	6/9/2025 6:08:35	Peak Integrated by Software
AR1248CCC50 0	PP072649.D	Decachlorobiphenyl #2	yogesh	6/5/2025 2:32:57 PM	mohammad	6/9/2025 6:08:35	Peak Integrated by Software
AR1254CCC50 0	PP072650.D	Decachlorobiphenyl	yogesh	6/5/2025 2:32:59 PM	mohammad	6/9/2025 6:08:35	Peak Integrated by Software
AR1254CCC50 0	PP072650.D	Decachlorobiphenyl #2	yogesh	6/5/2025 2:32:59 PM	mohammad	6/9/2025 6:08:35	Peak Integrated by Software
I.BLK	PP072651.D	Decachlorobiphenyl #2	yogesh	6/5/2025 2:33:01 PM	mohammad	6/9/2025 6:08:35	Peak Integrated by Software
AR1660CCC50 0	PP072662.D	AR-1260-3 #2	yogesh	6/6/2025 7:22:04 AM	mohammad	6/9/2025 6:08:35	Peak Integrated by Software
AR1660CCC50 0	PP072662.D	Decachlorobiphenyl	yogesh	6/6/2025 7:22:04 AM	mohammad	6/9/2025 6:08:35	Peak Integrated by Software
AR1660CCC50 0	PP072662.D	Decachlorobiphenyl #2	yogesh	6/6/2025 7:22:04 AM	mohammad	6/9/2025 6:08:35	Peak Integrated by Software

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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
AR1254CCC500	PP072665.D	Decachlorobiphenyl	yogesh	6/6/2025 7:22:06 AM	mohammad	6/9/2025 6:08:35	Peak Integrated by Software
I.BLK	PP072666.D	Decachlorobiphenyl #2	yogesh	6/6/2025 7:22:08 AM	mohammad	6/9/2025 6:08:35	Peak Integrated by Software
AR1660CCC500	PP072677.D	AR-1260-3 #2	yogesh	6/6/2025 7:22:16 AM	mohammad	6/9/2025 6:08:35	Peak Integrated by Software
AR1660CCC500	PP072677.D	Decachlorobiphenyl	yogesh	6/6/2025 7:22:16 AM	mohammad	6/9/2025 6:08:35	Peak Integrated by Software
AR1660CCC500	PP072677.D	Decachlorobiphenyl #2	yogesh	6/6/2025 7:22:16 AM	mohammad	6/9/2025 6:08:35	Peak Integrated by Software
AR1242CCC500	PP072678.D	Decachlorobiphenyl	yogesh	6/6/2025 7:22:17 AM	mohammad	6/9/2025 6:08:35	Peak Integrated by Software
AR1242CCC500	PP072678.D	Decachlorobiphenyl #2	yogesh	6/6/2025 7:22:17 AM	mohammad	6/9/2025 6:08:35	Peak Integrated by Software
AR1254CCC500	PP072680.D	Decachlorobiphenyl #2	yogesh	6/6/2025 7:22:19 AM	mohammad	6/9/2025 6:08:35	Peak Integrated by Software
I.BLK	PP072681.D	Decachlorobiphenyl	yogesh	6/6/2025 7:22:21 AM	mohammad	6/9/2025 6:08:35	Peak Integrated by Software
I.BLK	PP072681.D	Decachlorobiphenyl #2	yogesh	6/6/2025 7:22:21 AM	mohammad	6/9/2025 6:08:35	Peak Integrated by Software

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Manual Integration Report

Sequence:	PP060625	Instrument	ECD_p

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
AR1660CCC50 0	PP072683.D	Decachlorobiphenyl	yogesh	6/9/2025 7:47:17 AM	mohammad	6/10/2025 2:35:51	Peak Integrated by Software
AR1660CCC50 0	PP072683.D	Decachlorobiphenyl #2	yogesh	6/9/2025 7:47:17 AM	mohammad	6/10/2025 2:35:51	Peak Integrated by Software
AR1242CCC50 0	PP072684.D	Decachlorobiphenyl #2	yogesh	6/9/2025 7:47:19 AM	mohammad	6/10/2025 2:35:51	Peak Integrated by Software
AR1248CCC50 0	PP072685.D	Decachlorobiphenyl	yogesh	6/9/2025 7:48:50 AM	mohammad	6/10/2025 2:35:51	Peak Integrated by Software
AR1248CCC50 0	PP072685.D	Decachlorobiphenyl #2	yogesh	6/9/2025 7:48:50 AM	mohammad	6/10/2025 2:35:51	Peak Integrated by Software
AR1254CCC50 0	PP072686.D	Decachlorobiphenyl	yogesh	6/9/2025 7:47:21 AM	mohammad	6/10/2025 2:35:51	Peak Integrated by Software
AR1254CCC50 0	PP072686.D	Decachlorobiphenyl #2	yogesh	6/9/2025 7:47:21 AM	mohammad	6/10/2025 2:35:51	Peak Integrated by Software
I.BLK	PP072687.D	Decachlorobiphenyl	yogesh	6/9/2025 7:47:23 AM	mohammad	6/10/2025 2:35:51	Peak Integrated by Software
I.BLK	PP072687.D	Decachlorobiphenyl #2	yogesh	6/9/2025 7:47:23 AM	mohammad	6/10/2025 2:35:51	Peak Integrated by Software
AR1660CCC50 0	PP072698.D	AR-1260-4	yogesh	6/9/2025 7:47:39 AM	mohammad	6/10/2025 2:35:51	Peak Integrated by Software
AR1660CCC50 0	PP072698.D	Decachlorobiphenyl	yogesh	6/9/2025 7:47:39 AM	mohammad	6/10/2025 2:35:51	Peak Integrated by Software
AR1248CCC50 0	PP072700.D	Decachlorobiphenyl #2	yogesh	6/9/2025 7:47:40 AM	mohammad	6/10/2025 2:35:51	Peak Integrated by Software
AR1254CCC50 0	PP072701.D	Decachlorobiphenyl #2	yogesh	6/9/2025 7:47:42 AM	mohammad	6/10/2025 2:35:51	Peak Integrated by Software

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Manual Integration Report

Sequence:	PP060625	Instrument	ECD_p

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
I.BLK	PP072702.D	Decachlorobiphenyl #2	yogesh	6/9/2025 7:47:44 AM	mohammad	6/10/2025 2:35:51	Peak Integrated by Software
AR1660CCC500	PP072713.D	AR-1260-3 #2	yogesh	6/9/2025 7:47:51 AM	mohammad	6/10/2025 2:35:51	Peak Integrated by Software
AR1660CCC500	PP072713.D	Decachlorobiphenyl #2	yogesh	6/9/2025 7:47:51 AM	mohammad	6/10/2025 2:35:51	Peak Integrated by Software
AR1242CCC500	PP072714.D	Decachlorobiphenyl	yogesh	6/9/2025 7:47:53 AM	mohammad	6/10/2025 2:35:51	Peak Integrated by Software
AR1242CCC500	PP072714.D	Decachlorobiphenyl #2	yogesh	6/9/2025 7:47:53 AM	mohammad	6/10/2025 2:35:51	Peak Integrated by Software
AR1248CCC500	PP072715.D	Decachlorobiphenyl	yogesh	6/9/2025 7:47:55 AM	mohammad	6/10/2025 2:35:51	Peak Integrated by Software
AR1248CCC500	PP072715.D	Decachlorobiphenyl #2	yogesh	6/9/2025 7:47:55 AM	mohammad	6/10/2025 2:35:51	Peak Integrated by Software
AR1254CCC500	PP072716.D	Decachlorobiphenyl	yogesh	6/9/2025 7:47:57 AM	mohammad	6/10/2025 2:35:51	Peak Integrated by Software
AR1254CCC500	PP072716.D	Decachlorobiphenyl #2	yogesh	6/9/2025 7:47:57 AM	mohammad	6/10/2025 2:35:51	Peak Integrated by Software
I.BLK	PP072717.D	Decachlorobiphenyl #2	yogesh	6/9/2025 7:47:59 AM	mohammad	6/10/2025 2:35:51	Peak Integrated by Software
AR1660CCC500	PP072726.D	AR-1260-3 #2	yogesh	6/9/2025 7:48:13 AM	mohammad	6/10/2025 2:35:51	Peak Integrated by Software
AR1660CCC500	PP072726.D	Decachlorobiphenyl	yogesh	6/9/2025 7:48:13 AM	mohammad	6/10/2025 2:35:51	Peak Integrated by Software
AR1660CCC500	PP072726.D	Decachlorobiphenyl #2	yogesh	6/9/2025 7:48:13 AM	mohammad	6/10/2025 2:35:51	Peak Integrated by Software

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Manual Integration Report

Sequence:	PP060625	Instrument	ECD_p

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
AR1242CCC500	PP072727.D	Decachlorobiphenyl	yogesh	6/9/2025 7:48:15 AM	mohammad	6/10/2025 2:35:51	Peak Integrated by Software
AR1242CCC500	PP072727.D	Decachlorobiphenyl #2	yogesh	6/9/2025 7:48:15 AM	mohammad	6/10/2025 2:35:51	Peak Integrated by Software
AR1248CCC500	PP072728.D	Decachlorobiphenyl	yogesh	6/9/2025 7:48:17 AM	mohammad	6/10/2025 2:35:51	Peak Integrated by Software
AR1248CCC500	PP072728.D	Decachlorobiphenyl #2	yogesh	6/9/2025 7:48:17 AM	mohammad	6/10/2025 2:35:51	Peak Integrated by Software
AR1254CCC500	PP072729.D	Decachlorobiphenyl	yogesh	6/9/2025 7:48:19 AM	mohammad	6/10/2025 2:35:51	Peak Integrated by Software
AR1254CCC500	PP072729.D	Decachlorobiphenyl #2	yogesh	6/9/2025 7:48:19 AM	mohammad	6/10/2025 2:35:51	Peak Integrated by Software
I.BLK	PP072730.D	Decachlorobiphenyl	yogesh	6/9/2025 7:48:21 AM	mohammad	6/10/2025 2:35:51	Peak Integrated by Software
I.BLK	PP072730.D	Decachlorobiphenyl #2	yogesh	6/9/2025 7:48:21 AM	mohammad	6/10/2025 2:35:51	Peak Integrated by Software

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Manual Integration Report

Sequence:	PP060925	Instrument	ECD_p

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
AR1660CCC50 0	PP072732.D	Decachlorobiphenyl	yogesh	6/10/2025 7:42:41 AM	mohammad	6/11/2025 2:15:28	Peak Integrated by Software
AR1660CCC50 0	PP072732.D	Decachlorobiphenyl #2	yogesh	6/10/2025 7:42:41 AM	mohammad	6/11/2025 2:15:28	Peak Integrated by Software
AR1248CCC50 0	PP072734.D	Decachlorobiphenyl	yogesh	6/10/2025 7:40:03 AM	mohammad	6/11/2025 2:15:28	Peak Integrated by Software
AR1248CCC50 0	PP072734.D	Decachlorobiphenyl #2	yogesh	6/10/2025 7:40:03 AM	mohammad	6/11/2025 2:15:28	Peak Integrated by Software
AR1254CCC50 0	PP072735.D	Decachlorobiphenyl	yogesh	6/10/2025 7:40:05 AM	mohammad	6/11/2025 2:15:28	Peak Integrated by Software
AR1254CCC50 0	PP072735.D	Decachlorobiphenyl #2	yogesh	6/10/2025 7:40:05 AM	mohammad	6/11/2025 2:15:28	Peak Integrated by Software
AR1268CCC50 0	PP072736.D	AR-1268-4	yogesh	6/10/2025 7:40:07 AM	mohammad	6/11/2025 2:15:28	Peak Integrated by Software
AR1268CCC50 0	PP072736.D	Decachlorobiphenyl	yogesh	6/10/2025 7:40:07 AM	mohammad	6/11/2025 2:15:28	Peak Integrated by Software
AR1268CCC50 0	PP072736.D	Decachlorobiphenyl #2	yogesh	6/10/2025 7:40:07 AM	mohammad	6/11/2025 2:15:28	Peak Integrated by Software
I.BLK	PP072737.D	Decachlorobiphenyl	yogesh	6/10/2025 7:40:09 AM	mohammad	6/11/2025 2:15:28	Peak Integrated by Software
I.BLK	PP072737.D	Decachlorobiphenyl #2	yogesh	6/10/2025 7:40:09 AM	mohammad	6/11/2025 2:15:28	Peak Integrated by Software
PB168325BS	PP072738.D	Decachlorobiphenyl #2	yogesh	6/10/2025 7:40:12 AM	mohammad	6/11/2025 2:15:28	Peak Integrated by Software
PB168325BSD	PP072739.D	Decachlorobiphenyl	yogesh	6/10/2025 7:40:14 AM	mohammad	6/11/2025 2:15:28	Peak Integrated by Software

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Manual Integration Report

Sequence:	PP060925	Instrument	ECD_p

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
PB168325BSD	PP072739.D	Decachlorobiphenyl #2	yogesh	6/10/2025 7:40:14 AM	mohammad	6/11/2025 2:15:28	Peak Integrated by Software
AR1660CCC500	PP072748.D	Decachlorobiphenyl	yogesh	6/10/2025 7:40:36 AM	mohammad	6/11/2025 2:15:28	Peak Integrated by Software
AR1660CCC500	PP072748.D	Decachlorobiphenyl #2	yogesh	6/10/2025 7:40:36 AM	mohammad	6/11/2025 2:15:28	Peak Integrated by Software
AR1242CCC500	PP072749.D	Decachlorobiphenyl	yogesh	6/10/2025 7:40:39 AM	mohammad	6/11/2025 2:15:28	Peak Integrated by Software
AR1242CCC500	PP072749.D	Decachlorobiphenyl #2	yogesh	6/10/2025 7:40:39 AM	mohammad	6/11/2025 2:15:28	Peak Integrated by Software
AR1248CCC500	PP072750.D	Decachlorobiphenyl	yogesh	6/10/2025 7:40:41 AM	mohammad	6/11/2025 2:15:28	Peak Integrated by Software
AR1248CCC500	PP072750.D	Decachlorobiphenyl #2	yogesh	6/10/2025 7:40:41 AM	mohammad	6/11/2025 2:15:28	Peak Integrated by Software
AR1254CCC500	PP072751.D	Decachlorobiphenyl	yogesh	6/10/2025 7:40:44 AM	mohammad	6/11/2025 2:15:28	Peak Integrated by Software
AR1268CCC500	PP072752.D	AR-1268-4	yogesh	6/10/2025 7:40:46 AM	mohammad	6/11/2025 2:15:28	Peak Integrated by Software
AR1268CCC500	PP072752.D	Decachlorobiphenyl	yogesh	6/10/2025 7:40:46 AM	mohammad	6/11/2025 2:15:28	Peak Integrated by Software
AR1268CCC500	PP072752.D	Decachlorobiphenyl #2	yogesh	6/10/2025 7:40:46 AM	mohammad	6/11/2025 2:15:28	Peak Integrated by Software
I.BLK	PP072753.D	Decachlorobiphenyl #2	yogesh	6/10/2025 7:40:48 AM	mohammad	6/11/2025 2:15:28	Peak Integrated by Software
AR1660CCC500	PP072764.D	Decachlorobiphenyl	yogesh	6/10/2025 7:42:04 AM	mohammad	6/11/2025 2:15:28	Peak Integrated by Software

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Manual Integration Report

Sequence:	PP060925	Instrument	ECD_p

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
AR1660CCC500	PP072764.D	Decachlorobiphenyl #2	yogesh	6/10/2025 7:42:04 AM	mohammad	6/11/2025 2:15:28	Peak Integrated by Software
AR1242CCC500	PP072765.D	Decachlorobiphenyl	yogesh	6/10/2025 7:42:07 AM	mohammad	6/11/2025 2:15:28	Peak Integrated by Software
AR1242CCC500	PP072765.D	Decachlorobiphenyl #2	yogesh	6/10/2025 7:42:07 AM	mohammad	6/11/2025 2:15:28	Peak Integrated by Software
AR1248CCC500	PP072766.D	Decachlorobiphenyl	yogesh	6/10/2025 7:42:10 AM	mohammad	6/11/2025 2:15:28	Peak Integrated by Software
AR1248CCC500	PP072766.D	Decachlorobiphenyl #2	yogesh	6/10/2025 7:42:10 AM	mohammad	6/11/2025 2:15:28	Peak Integrated by Software
AR1254CCC500	PP072767.D	Decachlorobiphenyl	yogesh	6/10/2025 7:42:11 AM	mohammad	6/11/2025 2:15:28	Peak Integrated by Software
AR1254CCC500	PP072767.D	Decachlorobiphenyl #2	yogesh	6/10/2025 7:42:11 AM	mohammad	6/11/2025 2:15:28	Peak Integrated by Software
AR1268CCC500	PP072768.D	AR-1268-4	yogesh	6/10/2025 7:42:13 AM	mohammad	6/11/2025 2:15:28	Peak Integrated by Software
AR1268CCC500	PP072768.D	Decachlorobiphenyl	yogesh	6/10/2025 7:42:13 AM	mohammad	6/11/2025 2:15:28	Peak Integrated by Software
AR1268CCC500	PP072768.D	Decachlorobiphenyl #2	yogesh	6/10/2025 7:42:13 AM	mohammad	6/11/2025 2:15:28	Peak Integrated by Software
I.BLK	PP072769.D	Decachlorobiphenyl	yogesh	6/10/2025 7:42:15 AM	mohammad	6/11/2025 2:15:28	Peak Integrated by Software
I.BLK	PP072769.D	Decachlorobiphenyl #2	yogesh	6/10/2025 7:42:15 AM	mohammad	6/11/2025 2:15:28	Peak Integrated by Software

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Manual Integration Report

Sequence:	PP060925	Instrument	ECD_p

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason

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Instrument ID: ECD_O

Daily Analysis Runlog For Sequence/QCBatch ID # PO051525

Review By	yogesh	Review On	5/14/2025 3:39:03 PM		
Supervise By	mohammad	Supervise On	5/16/2025 1:55:32 AM		
SubDirectory	PO051525	HP Acquire Method		HP Processing Method	PO051525

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24330,PP24331,PP24332,PP24333,PP24334,PP24335,PP24336,PP24337,PP24338,PP24339,PP24340,PP24341,PP24342,PP24343,PP24344 ,PP24345,PP24346,PP24347,PP24348,PP24349,PP24350,PP24351,PP24352,PP24353,PP24354,PP24355,PP24356,PP24357,PP24358,PP2435 9,PP24360,PP24361,PP24362,PP24363,PP24364,PP24365,PP24366,PP24367,PP24368,PP24369
CCC	
Internal Standard/PEM	
ICV/I.BLK	PP24370,PP24371,PP24372,PP24373,PP24374,PP24375,PP24376,PP24377,PP24378,PP24379,PP24380,PP24381,PP24382,PP24384,PP24385,PP24386,PP2
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	HEXANE	PO111056.D	14 May 2025 16:43	YP/AJ	Ok
2	I.BLK	PO111057.D	14 May 2025 17:01	YP/AJ	Ok
3	AR1660ICC1000	PO111058.D	14 May 2025 17:19	YP/AJ	Ok
4	AR1660ICC750	PO111059.D	14 May 2025 17:38	YP/AJ	Ok,M
5	AR1660ICC500	PO111060.D	14 May 2025 17:56	YP/AJ	Ok
6	AR1660ICC250	PO111061.D	14 May 2025 18:15	YP/AJ	Ok,M
7	AR1660ICC050	PO111062.D	14 May 2025 18:33	YP/AJ	Ok,M
8	AR1221ICC500	PO111063.D	14 May 2025 18:51	YP/AJ	Ok
9	AR1232ICC500	PO111064.D	14 May 2025 19:10	YP/AJ	Ok
10	AR1242ICC1000	PO111065.D	14 May 2025 19:28	YP/AJ	Ok
11	AR1242ICC750	PO111066.D	14 May 2025 19:46	YP/AJ	Ok
12	AR1242ICC500	PO111067.D	14 May 2025 20:05	YP/AJ	Ok
13	AR1242ICC250	PO111068.D	14 May 2025 20:23	YP/AJ	Ok
14	AR1242ICC050	PO111069.D	14 May 2025 20:41	YP/AJ	Ok
15	AR1248ICC1000	PO111070.D	14 May 2025 21:00	YP/AJ	Ok
16	AR1248ICC750	PO111071.D	14 May 2025 21:18	YP/AJ	Ok
17	AR1248ICC500	PO111072.D	14 May 2025 21:37	YP/AJ	Ok
18	AR1248ICC250	PO111073.D	14 May 2025 21:54	YP/AJ	Ok
19	AR1248ICC050	PO111074.D	14 May 2025 22:12	YP/AJ	Ok
20	AR1254ICC1000	PO111075.D	14 May 2025 22:31	YP/AJ	Ok
21	AR1254ICC750	PO111076.D	14 May 2025 22:49	YP/AJ	Ok

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Instrument ID: ECD_O

Daily Analysis Runlog For Sequence/QCBatch ID # PO051525

Review By	yogesh	Review On	5/14/2025 3:39:03 PM		
Supervise By	mohammad	Supervise On	5/16/2025 1:55:32 AM		
SubDirectory	PO051525	HP Acquire Method		HP Processing Method	PO051525

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24330,PP24331,PP24332,PP24333,PP24334,PP24335,PP24336,PP24337,PP24338,PP24339,PP24340,PP24341,PP24342,PP24343,PP24344,PP24345,PP24346,PP24347,PP24348,PP24349,PP24350,PP24351,PP24352,PP24353,PP24354,PP24355,PP24356,PP24357,PP24358,PP24359,PP24360,PP24361,PP24362,PP24363,PP24364,PP24365,PP24366,PP24367,PP24368,PP24369
CCC	
Internal Standard/PEM	
ICV/I.BLK	PP24370,PP24371,PP24372,PP24373,PP24374,PP24375,PP24376,PP24377,PP24378,PP24379,PP24380,PP24381,PP24382,PP24384,PP24385,PP24386,PP2
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	AR1254ICC500	PO111077.D	14 May 2025 23:06	YP/AJ	Ok
23	AR1254ICC250	PO111078.D	14 May 2025 23:25	YP/AJ	Ok
24	AR1254ICC050	PO111079.D	14 May 2025 23:43	YP/AJ	Ok
25	AR1262ICC500	PO111080.D	15 May 2025 00:01	YP/AJ	Ok
26	AR1268ICC1000	PO111081.D	15 May 2025 00:19	YP/AJ	Ok
27	AR1268ICC750	PO111082.D	15 May 2025 00:37	YP/AJ	Ok
28	AR1268ICC500	PO111083.D	15 May 2025 00:56	YP/AJ	Ok
29	AR1268ICC250	PO111084.D	15 May 2025 01:14	YP/AJ	Ok
30	AR1268ICC050	PO111085.D	15 May 2025 01:31	YP/AJ	Ok
31	PO051525ICV500	PO111086.D	15 May 2025 01:50	YP/AJ	Ok
32	AR1242ICV500	PO111087.D	15 May 2025 02:26	YP/AJ	Ok
33	AR1248ICV500	PO111088.D	15 May 2025 03:03	YP/AJ	Ok
34	AR1254ICV500	PO111089.D	15 May 2025 03:40	YP/AJ	Ok
35	AR1268ICV500	PO111090.D	15 May 2025 04:17	YP/AJ	Ok

M : Manual Integration

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Instrument ID: ECD_O

Daily Analysis Runlog For Sequence/QCBatch ID # PO060425

Review By	yogesh	Review On	6/4/2025 10:15:40 AM		
Supervise By	mohammad	Supervise On	6/6/2025 2:01:29 AM		
SubDirectory	PO060425	HP Acquire Method		HP Processing Method	PO051525

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24330,PP24331,PP24332,PP24333,PP24334,PP24335,PP24336,PP24337,PP24338,PP24339,PP24340,PP24341,PP24342,PP24343,PP24344 ,PP24345,PP24346,PP24347,PP24348,PP24349,PP24350,PP24351,PP24352,PP24353,PP24354,PP24355,PP24356,PP24357,PP24358,PP2435 9,PP24360,PP24361,PP24362,PP24363,PP24364,PP24365,PP24366,PP24367,PP24368,PP24369
CCC	PP24332,PP24347,PP24352,PP24357
Internal Standard/PEM	
ICV/I.BLK	PP24370,PP24371,PP24372,PP24373,PP24374,PP24375,PP24376,PP24377,PP24378,PP24379,PP24380,PP24381,PP24382,PP24384,PP24385,PP24386,PP2
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	HEXANE	PO111452.D	04 Jun 2025 08:39	YP/AJ	Ok
2	AR1660CCC500	PO111453.D	04 Jun 2025 08:57	YP/AJ	Ok,M
3	AR1242CCC500	PO111454.D	04 Jun 2025 09:18	YP/AJ	Ok,M
4	AR1248CCC500	PO111455.D	04 Jun 2025 09:36	YP/AJ	Ok,M
5	AR1254CCC500	PO111456.D	04 Jun 2025 09:54	YP/AJ	Ok,M
6	I.BLK	PO111457.D	04 Jun 2025 10:13	YP/AJ	Ok,M
7	Q2175-01	PO111458.D	04 Jun 2025 10:31	YP/AJ	Ok,M
8	Q2176-01	PO111459.D	04 Jun 2025 10:49	YP/AJ	Ok,M
9	Q2176-02	PO111460.D	04 Jun 2025 11:08	YP/AJ	Ok,M
10	Q2176-03	PO111461.D	04 Jun 2025 11:26	YP/AJ	Ok,M
11	Q2175-06RE	PO111462.D	04 Jun 2025 11:50	YP/AJ	Confirms
12	Q2171-02	PO111463.D	04 Jun 2025 12:57	YP/AJ	Ok,M
13	Q2171-03	PO111464.D	04 Jun 2025 13:15	YP/AJ	Ok,M
14	Q2193-01	PO111465.D	04 Jun 2025 13:33	YP/AJ	Ok,M
15	Q2193-02	PO111466.D	04 Jun 2025 13:51	YP/AJ	Ok,M
16	Q2193-03	PO111467.D	04 Jun 2025 14:09	YP/AJ	Ok,M
17	AR1660CCC500	PO111468.D	04 Jun 2025 15:23	YP/AJ	Ok,M
18	AR1242CCC500	PO111469.D	04 Jun 2025 15:41	YP/AJ	Ok,M
19	AR1248CCC500	PO111470.D	04 Jun 2025 15:59	YP/AJ	Ok,M
20	AR1254CCC500	PO111471.D	04 Jun 2025 16:18	YP/AJ	Ok,M
21	I.BLK	PO111472.D	04 Jun 2025 16:35	YP/AJ	Ok,M

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Instrument ID: ECD_O

Daily Analysis Runlog For Sequence/QCBatch ID # PO060425

Review By	yogesh	Review On	6/4/2025 10:15:40 AM		
Supervise By	mohammad	Supervise On	6/6/2025 2:01:29 AM		
SubDirectory	PO060425	HP Acquire Method		HP Processing Method	PO051525

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24330,PP24331,PP24332,PP24333,PP24334,PP24335,PP24336,PP24337,PP24338,PP24339,PP24340,PP24341,PP24342,PP24343,PP24344 ,PP24345,PP24346,PP24347,PP24348,PP24349,PP24350,PP24351,PP24352,PP24353,PP24354,PP24355,PP24356,PP24357,PP24358,PP2435 9,PP24360,PP24361,PP24362,PP24363,PP24364,PP24365,PP24366,PP24367,PP24368,PP24369
CCC	PP24332,PP24347,PP24352,PP24357
Internal Standard/PEM	
ICV/I.BLK	PP24370,PP24371,PP24372,PP24373,PP24374,PP24375,PP24376,PP24377,PP24378,PP24379,PP24380,PP24381,PP24382,PP24384,PP24385,PP24386,PP2
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	Q2198-03	PO111473.D	04 Jun 2025 16:52	YP/AJ	Ok,M
23	Q2199-01	PO111474.D	04 Jun 2025 17:10	YP/AJ	Ok,M
24	Q2199-03	PO111475.D	04 Jun 2025 17:28	YP/AJ	Ok,M
25	Q2199-05	PO111476.D	04 Jun 2025 17:45	YP/AJ	Ok,M
26	AR1660CCC500	PO111477.D	04 Jun 2025 18:57	YP/AJ	Ok,M
27	AR1242CCC500	PO111478.D	04 Jun 2025 19:33	YP/AJ	Ok,M
28	AR1248CCC500	PO111479.D	04 Jun 2025 19:50	YP/AJ	Ok,M
29	AR1254CCC500	PO111480.D	04 Jun 2025 20:08	YP/AJ	Ok,M
30	I.BLK	PO111481.D	04 Jun 2025 20:27	YP/AJ	Ok,M

M : Manual Integration

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Instrument ID: ECD_P

Daily Analysis Runlog For Sequence/QCBatch ID # PP051925

Review By	yogesh	Review On	5/19/2025 12:22:08 PM		
Supervise By	mohammad	Supervise On	5/22/2025 6:37:35 AM		
SubDirectory	PP051925	HP Acquire Method		HP Processing Method	PP051925

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24330,PP24331,PP24332,PP24333,PP24334,PP24335,PP24336,PP24337,PP24338,PP24339,PP24340,PP24341,PP24342,PP24343,PP24344,PP24345,PP24346,PP24347,PP24348,PP24349,PP24350,PP24351,PP24352,PP24353,PP24354,PP24355,PP24356,PP24357,PP24358,PP24359,PP24360,PP24361,PP24362,PP24363,PP24364,PP24365,PP24366,PP24367,PP24368,PP24369
CCC	
Internal Standard/PEM	
ICV/I.BLK	PP24370,PP24371,PP24372,PP24373,PP24374,PP24375,PP24376,PP24377,PP24378,PP24379,PP24380,PP24381,PP24382,PP24384,PP24385,PP24386,PP2
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	HEXANE	PP072162.D	19 May 2025 09:09	YP\AJ	Ok
2	I.BLK	PP072163.D	19 May 2025 09:26	YP\AJ	Ok
3	AR1660ICC1000	PP072164.D	19 May 2025 09:42	YP\AJ	Ok
4	AR1660ICC750	PP072165.D	19 May 2025 09:59	YP\AJ	Ok
5	AR1660ICC500	PP072166.D	19 May 2025 10:15	YP\AJ	Ok
6	AR1660ICC250	PP072167.D	19 May 2025 10:32	YP\AJ	Ok
7	AR1660ICC050	PP072168.D	19 May 2025 10:48	YP\AJ	Ok,M
8	AR1221ICC500	PP072169.D	19 May 2025 11:05	YP\AJ	Ok
9	AR1232ICC1000	PP072170.D	19 May 2025 11:21	YP\AJ	Ok
10	AR1232ICC750	PP072171.D	19 May 2025 11:38	YP\AJ	Ok
11	AR1232ICC500	PP072172.D	19 May 2025 11:54	YP\AJ	Ok
12	AR1232ICC250	PP072173.D	19 May 2025 12:10	YP\AJ	Ok
13	AR1232ICC050	PP072174.D	19 May 2025 12:27	YP\AJ	Ok,M
14	AR1242ICC1000	PP072175.D	19 May 2025 12:43	YP\AJ	Ok
15	AR1242ICC750	PP072176.D	19 May 2025 12:59	YP\AJ	Ok
16	AR1242ICC500	PP072177.D	19 May 2025 13:15	YP\AJ	Ok
17	AR1242ICC250	PP072178.D	19 May 2025 13:32	YP\AJ	Ok
18	AR1242ICC050	PP072179.D	19 May 2025 13:48	YP\AJ	Ok,M
19	AR1248ICC1000	PP072180.D	19 May 2025 14:04	YP\AJ	Ok
20	AR1248ICC750	PP072181.D	19 May 2025 14:20	YP\AJ	Ok
21	AR1248ICC500	PP072182.D	19 May 2025 14:37	YP\AJ	Ok

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Instrument ID: ECD_P

Daily Analysis Runlog For Sequence/QCBatch ID # PP051925

Review By	yogesh	Review On	5/19/2025 12:22:08 PM		
Supervise By	mohammad	Supervise On	5/22/2025 6:37:35 AM		
SubDirectory	PP051925	HP Acquire Method		HP Processing Method	PP051925

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24330,PP24331,PP24332,PP24333,PP24334,PP24335,PP24336,PP24337,PP24338,PP24339,PP24340,PP24341,PP24342,PP24343,PP24344,PP24345,PP24346,PP24347,PP24348,PP24349,PP24350,PP24351,PP24352,PP24353,PP24354,PP24355,PP24356,PP24357,PP24358,PP24359,PP24360,PP24361,PP24362,PP24363,PP24364,PP24365,PP24366,PP24367,PP24368,PP24369
CCC	
Internal Standard/PEM	
ICV/I.BLK	PP24370,PP24371,PP24372,PP24373,PP24374,PP24375,PP24376,PP24377,PP24378,PP24379,PP24380,PP24381,PP24382,PP24384,PP24385,PP24386,PP2
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	AR1248ICC250	PP072183.D	19 May 2025 14:53	YP\AJ	Ok
23	AR1248ICC050	PP072184.D	19 May 2025 15:25	YP\AJ	Ok,M
24	AR1254ICC1000	PP072185.D	19 May 2025 15:42	YP\AJ	Ok
25	AR1254ICC750	PP072186.D	19 May 2025 15:58	YP\AJ	Ok
26	AR1254ICC500	PP072187.D	19 May 2025 16:14	YP\AJ	Ok
27	AR1254ICC250	PP072188.D	19 May 2025 16:31	YP\AJ	Ok
28	AR1254ICC050	PP072189.D	19 May 2025 16:47	YP\AJ	Ok,M
29	AR1262ICC500	PP072190.D	19 May 2025 17:03	YP\AJ	Ok
30	AR1268ICC1000	PP072191.D	19 May 2025 17:20	YP\AJ	Ok
31	AR1268ICC750	PP072192.D	19 May 2025 17:36	YP\AJ	Ok
32	AR1268ICC500	PP072193.D	19 May 2025 17:53	YP\AJ	Ok
33	AR1268ICC250	PP072194.D	19 May 2025 18:09	YP\AJ	Ok
34	AR1268ICC050	PP072195.D	19 May 2025 18:25	YP\AJ	Ok,M
35	PP051925ICV500	PP072196.D	19 May 2025 18:42	YP\AJ	Ok
36	AR1232ICV500	PP072197.D	19 May 2025 19:14	YP\AJ	Ok
37	AR1242ICV500	PP072198.D	19 May 2025 19:47	YP\AJ	Ok
38	AR1248ICV500	PP072199.D	19 May 2025 20:19	YP\AJ	Ok
39	AR1254ICV500	PP072200.D	19 May 2025 20:52	YP\AJ	Ok
40	AR1268ICV500	PP072201.D	19 May 2025 21:25	YP\AJ	Ok

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Instrument ID: ECD_P

Daily Analysis Runlog For Sequence/QCBatch ID # PP060425

Review By	yogesh	Review On	6/4/2025 10:14:35 AM		
Supervise By	mohammad	Supervise On	6/6/2025 9:37:42 AM		
SubDirectory	PP060425	HP Acquire Method		HP Processing Method	PP051925

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24330,PP24331,PP24332,PP24333,PP24334,PP24335,PP24336,PP24337,PP24338,PP24339,PP24340,PP24341,PP24342,PP24343,PP24344 ,PP24345,PP24346,PP24347,PP24348,PP24349,PP24350,PP24351,PP24352,PP24353,PP24354,PP24355,PP24356,PP24357,PP24358,PP2435 9,PP24360,PP24361,PP24362,PP24363,PP24364,PP24365,PP24366,PP24367,PP24368,PP24369
CCC	PP24332,PP24347,PP24352,PP24357
Internal Standard/PEM	
ICV/I.BLK	PP24370,PP24371,PP24372,PP24373,PP24374,PP24375,PP24376,PP24377,PP24378,PP24379,PP24380,PP24381,PP24382,PP24384,PP24385,PP24386,PP2
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	HEXANE	PP072603.D	04 Jun 2025 08:34	YP\AJ	Ok
2	AR1660CCC500	PP072604.D	04 Jun 2025 08:50	YP\AJ	Ok,M
3	AR1242CCC500	PP072605.D	04 Jun 2025 09:11	YP\AJ	Ok,M
4	AR1248CCC500	PP072606.D	04 Jun 2025 09:27	YP\AJ	Ok,M
5	AR1254CCC500	PP072607.D	04 Jun 2025 09:43	YP\AJ	Ok,M
6	I.BLK	PP072608.D	04 Jun 2025 10:00	YP\AJ	Ok,M
7	PB168257BS	PP072609.D	04 Jun 2025 10:16	YP\AJ	Ok,M
8	PB168257BSD	PP072610.D	04 Jun 2025 10:32	YP\AJ	Ok,M
9	Q2168-01DL	PP072611.D	04 Jun 2025 10:48	YP\AJ	Ok
10	Q2168-05DL	PP072612.D	04 Jun 2025 11:04	YP\AJ	Ok
11	Q2168-09DL	PP072613.D	04 Jun 2025 11:21	YP\AJ	Ok
12	PB168252BS	PP072614.D	04 Jun 2025 11:37	YP\AJ	Ok,M
13	PB168275BL	PP072615.D	04 Jun 2025 12:55	YP\AJ	Ok
14	PB168275BS	PP072616.D	04 Jun 2025 13:12	YP\AJ	Not Ok
15	Q2167-01	PP072617.D	04 Jun 2025 13:28	YP\AJ	ReRun
16	Q2171-01	PP072618.D	04 Jun 2025 13:45	YP\AJ	Dilution
17	AR1660CCC500	PP072619.D	04 Jun 2025 14:51	YP\AJ	Ok,M
18	AR1242CCC500	PP072620.D	04 Jun 2025 15:07	YP\AJ	Ok,M
19	AR1248CCC500	PP072621.D	04 Jun 2025 15:23	YP\AJ	Ok,M
20	AR1254CCC500	PP072622.D	04 Jun 2025 15:40	YP\AJ	Ok,M
21	I.BLK	PP072623.D	04 Jun 2025 15:56	YP\AJ	Ok

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Daily Analysis Runlog For Sequence/QCBatch ID # PP060425

Review By	yogesh	Review On	6/4/2025 10:14:35 AM		
Supervise By	mohammad	Supervise On	6/6/2025 9:37:42 AM		
SubDirectory	PP060425	HP Acquire Method		HP Processing Method	PP051925

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24330,PP24331,PP24332,PP24333,PP24334,PP24335,PP24336,PP24337,PP24338,PP24339,PP24340,PP24341,PP24342,PP24343,PP24344 ,PP24345,PP24346,PP24347,PP24348,PP24349,PP24350,PP24351,PP24352,PP24353,PP24354,PP24355,PP24356,PP24357,PP24358,PP2435 9,PP24360,PP24361,PP24362,PP24363,PP24364,PP24365,PP24366,PP24367,PP24368,PP24369
CCC	PP24332,PP24347,PP24352,PP24357
Internal Standard/PEM	
ICV/I.BLK	PP24370,PP24371,PP24372,PP24373,PP24374,PP24375,PP24376,PP24377,PP24378,PP24379,PP24380,PP24381,PP24382,PP24384,PP24385,PP24386,PP2
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	PB168288BL	PP072624.D	04 Jun 2025 16:13	YP\AJ	Ok,M
23	PB168288BS	PP072625.D	04 Jun 2025 16:29	YP\AJ	Not Ok
24	Q2182-01	PP072626.D	04 Jun 2025 16:45	YP\AJ	Ok,M
25	Q2192-01	PP072627.D	04 Jun 2025 17:02	YP\AJ	Dilution
26	Q2194-01	PP072628.D	04 Jun 2025 17:18	YP\AJ	Ok
27	Q2194-03	PP072629.D	04 Jun 2025 17:34	YP\AJ	Ok
28	Q2195-01	PP072630.D	04 Jun 2025 17:51	YP\AJ	Ok,M
29	Q2195-01MS	PP072631.D	04 Jun 2025 18:07	YP\AJ	Ok,M
30	Q2195-01MSD	PP072632.D	04 Jun 2025 18:23	YP\AJ	Ok,M
31	Q2198-01	PP072633.D	04 Jun 2025 18:40	YP\AJ	Ok,M
32	AR1660CCC500	PP072634.D	04 Jun 2025 20:01	YP\AJ	Ok
33	AR1242CCC500	PP072635.D	04 Jun 2025 20:18	YP\AJ	Ok
34	AR1248CCC500	PP072636.D	04 Jun 2025 20:34	YP\AJ	Ok,M
35	AR1254CCC500	PP072637.D	04 Jun 2025 20:50	YP\AJ	Ok,M
36	I.BLK	PP072638.D	04 Jun 2025 21:07	YP\AJ	Ok,M
37	Q2175-09	PP072639.D	04 Jun 2025 21:23	YP\AJ	ReRun
38	Q2171-01DL	PP072640.D	04 Jun 2025 21:39	YP\AJ	Ok,M
39	AR1660CCC500	PP072641.D	04 Jun 2025 22:45	YP\AJ	Ok,M
40	AR1242CCC500	PP072642.D	04 Jun 2025 23:17	YP\AJ	Ok,M
41	AR1248CCC500	PP072643.D	04 Jun 2025 23:34	YP\AJ	Ok,M
42	AR1254CCC500	PP072644.D	04 Jun 2025 23:50	YP\AJ	Ok,M
43	I.BLK	PP072645.D	05 Jun 2025 00:06	YP\AJ	Ok,M

M : Manual Integration

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Instrument ID: ECD_P

Daily Analysis Runlog For Sequence/QCBatch ID # PP060525

Review By	yogesh	Review On	6/5/2025 1:51:59 PM		
Supervise By	mohammad	Supervise On	6/9/2025 6:08:35 AM		
SubDirectory	PP060525	HP Acquire Method		HP Processing Method	PP051925

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24330,PP24331,PP24332,PP24333,PP24334,PP24335,PP24336,PP24337,PP24338,PP24339,PP24340,PP24341,PP24342,PP24343,PP24344 ,PP24345,PP24346,PP24347,PP24348,PP24349,PP24350,PP24351,PP24352,PP24353,PP24354,PP24355,PP24356,PP24357,PP24358,PP2435 9,PP24360,PP24361,PP24362,PP24363,PP24364,PP24365,PP24366,PP24367,PP24368,PP24369
CCC	PP24332,PP24347,PP24352,PP24357
Internal Standard/PEM	
ICV/I.BLK	PP24370,PP24371,PP24372,PP24373,PP24374,PP24375,PP24376,PP24377,PP24378,PP24379,PP24380,PP24381,PP24382,PP24384,PP24385,PP24386,PP2
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	HEXANE	PP072646.D	05 Jun 2025 08:40	YP\AJ	Ok
2	AR1660CCC500	PP072647.D	05 Jun 2025 08:57	YP\AJ	Ok,M
3	AR1242CCC500	PP072648.D	05 Jun 2025 09:13	YP\AJ	Ok,M
4	AR1248CCC500	PP072649.D	05 Jun 2025 09:29	YP\AJ	Ok,M
5	AR1254CCC500	PP072650.D	05 Jun 2025 09:46	YP\AJ	Ok,M
6	I.BLK	PP072651.D	05 Jun 2025 10:02	YP\AJ	Ok,M
7	PB168275BS	PP072652.D	05 Jun 2025 10:18	YP\AJ	Ok,M
8	PB168288BS	PP072653.D	05 Jun 2025 10:35	YP\AJ	Ok
9	Q2167-01RE	PP072654.D	05 Jun 2025 10:51	YP\AJ	Confirms
10	Q2175-09RE	PP072655.D	05 Jun 2025 11:07	YP\AJ	Confirms
11	Q2192-01DL	PP072656.D	05 Jun 2025 11:23	YP\AJ	Dilution
12	Q2192-01DL2	PP072657.D	05 Jun 2025 11:40	YP\AJ	Ok
13	PB168298BL	PP072658.D	05 Jun 2025 12:57	YP\AJ	Ok,M
14	PB168298BS	PP072659.D	05 Jun 2025 13:13	YP\AJ	Ok,M
15	Q2207-10	PP072660.D	05 Jun 2025 13:30	YP\AJ	Ok,M
16	Q2207-19	PP072661.D	05 Jun 2025 13:46	YP\AJ	Ok
17	AR1660CCC500	PP072662.D	05 Jun 2025 14:51	YP\AJ	Ok,M
18	AR1242CCC500	PP072663.D	05 Jun 2025 15:08	YP\AJ	Ok
19	AR1248CCC500	PP072664.D	05 Jun 2025 15:24	YP\AJ	Ok
20	AR1254CCC500	PP072665.D	05 Jun 2025 15:40	YP\AJ	Ok,M
21	I.BLK	PP072666.D	05 Jun 2025 15:57	YP\AJ	Ok,M

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Instrument ID: ECD_P

Daily Analysis Runlog For Sequence/QCBatch ID # PP060525

Review By	yogesh	Review On	6/5/2025 1:51:59 PM		
Supervise By	mohammad	Supervise On	6/9/2025 6:08:35 AM		
SubDirectory	PP060525	HP Acquire Method		HP Processing Method	PP051925

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24330,PP24331,PP24332,PP24333,PP24334,PP24335,PP24336,PP24337,PP24338,PP24339,PP24340,PP24341,PP24342,PP24343,PP24344 ,PP24345,PP24346,PP24347,PP24348,PP24349,PP24350,PP24351,PP24352,PP24353,PP24354,PP24355,PP24356,PP24357,PP24358,PP2435 9,PP24360,PP24361,PP24362,PP24363,PP24364,PP24365,PP24366,PP24367,PP24368,PP24369
CCC	PP24332,PP24347,PP24352,PP24357
Internal Standard/PEM	
ICV/I.BLK	PP24370,PP24371,PP24372,PP24373,PP24374,PP24375,PP24376,PP24377,PP24378,PP24379,PP24380,PP24381,PP24382,PP24384,PP24385,PP24386,PP2
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	Q2206-01	PP072667.D	05 Jun 2025 16:13	YP\AJ	Ok,M
23	Q2206-01MS	PP072668.D	05 Jun 2025 16:30	YP\AJ	Ok,M
24	Q2206-01MSD	PP072669.D	05 Jun 2025 16:46	YP\AJ	Ok,M
25	Q2207-01	PP072670.D	05 Jun 2025 17:02	YP\AJ	Ok
26	Q2207-28	PP072671.D	05 Jun 2025 17:19	YP\AJ	Ok
27	Q2207-37	PP072672.D	05 Jun 2025 17:35	YP\AJ	Ok
28	Q2208-01	PP072673.D	05 Jun 2025 17:51	YP\AJ	Ok
29	Q2208-10	PP072674.D	05 Jun 2025 18:08	YP\AJ	Ok
30	Q2208-19	PP072675.D	05 Jun 2025 18:24	YP\AJ	Ok
31	Q2208-28	PP072676.D	05 Jun 2025 18:40	YP\AJ	Ok
32	AR1660CCC500	PP072677.D	05 Jun 2025 20:02	YP\AJ	Ok,M
33	AR1242CCC500	PP072678.D	05 Jun 2025 20:35	YP\AJ	Ok,M
34	AR1248CCC500	PP072679.D	05 Jun 2025 20:51	YP\AJ	Ok
35	AR1254CCC500	PP072680.D	05 Jun 2025 21:08	YP\AJ	Ok,M
36	I.BLK	PP072681.D	05 Jun 2025 21:24	YP\AJ	Ok,M

M : Manual Integration

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Instrument ID: ECD_P

Daily Analysis Runlog For Sequence/QCBatch ID # PP060625

Review By	yogesh	Review On	6/6/2025 11:16:52 AM		
Supervise By	mohammad	Supervise On	6/10/2025 2:35:51 AM		
SubDirectory	PP060625	HP Acquire Method		HP Processing Method	PP051925

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24330,PP24331,PP24332,PP24333,PP24334,PP24335,PP24336,PP24337,PP24338,PP24339,PP24340,PP24341,PP24342,PP24343,PP24344 ,PP24345,PP24346,PP24347,PP24348,PP24349,PP24350,PP24351,PP24352,PP24353,PP24354,PP24355,PP24356,PP24357,PP24358,PP2435 9,PP24360,PP24361,PP24362,PP24363,PP24364,PP24365,PP24366,PP24367,PP24368,PP24369
CCC	PP24332,PP24347,PP24352,PP24357
Internal Standard/PEM	
ICV/I.BLK	PP24370,PP24371,PP24372,PP24373,PP24374,PP24375,PP24376,PP24377,PP24378,PP24379,PP24380,PP24381,PP24382,PP24384,PP24385,PP24386,PP2
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	HEXANE	PP072682.D	06 Jun 2025 08:57	YP\AJ	Ok
2	AR1660CCC500	PP072683.D	06 Jun 2025 09:13	YP\AJ	Ok,M
3	AR1242CCC500	PP072684.D	06 Jun 2025 09:30	YP\AJ	Ok,M
4	AR1248CCC500	PP072685.D	06 Jun 2025 09:47	YP\AJ	Ok,M
5	AR1254CCC500	PP072686.D	06 Jun 2025 10:03	YP\AJ	Ok,M
6	I.BLK	PP072687.D	06 Jun 2025 10:19	YP\AJ	Ok,M
7	Q2214-01	PP072688.D	06 Jun 2025 10:37	YP\AJ	Ok,M
8	PB168319BL	PP072689.D	06 Jun 2025 12:37	YP\AJ	Ok,M
9	PB168319BS	PP072690.D	06 Jun 2025 12:54	YP\AJ	Ok,M
10	Q2223-01	PP072691.D	06 Jun 2025 13:10	YP\AJ	Ok,M
11	Q2223-01MS	PP072692.D	06 Jun 2025 13:27	YP\AJ	Ok,M
12	Q2223-01MSD	PP072693.D	06 Jun 2025 13:43	YP\AJ	Ok,M
13	Q2223-03	PP072694.D	06 Jun 2025 13:59	YP\AJ	Ok,M
14	Q2224-01	PP072695.D	06 Jun 2025 14:16	YP\AJ	Ok,M
15	Q2225-01	PP072696.D	06 Jun 2025 14:32	YP\AJ	Ok,M
16	Q2227-01	PP072697.D	06 Jun 2025 14:49	YP\AJ	Ok
17	AR1660CCC500	PP072698.D	06 Jun 2025 17:01	YP\AJ	Ok,M
18	AR1242CCC500	PP072699.D	06 Jun 2025 17:18	YP\AJ	Ok
19	AR1248CCC500	PP072700.D	06 Jun 2025 17:34	YP\AJ	Ok,M
20	AR1254CCC500	PP072701.D	06 Jun 2025 17:51	YP\AJ	Ok,M
21	I.BLK	PP072702.D	06 Jun 2025 18:07	YP\AJ	Ok,M

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Instrument ID: ECD_P

Daily Analysis Runlog For Sequence/QCBatch ID # PP060625

Review By	yogesh	Review On	6/6/2025 11:16:52 AM		
Supervise By	mohammad	Supervise On	6/10/2025 2:35:51 AM		
SubDirectory	PP060625	HP Acquire Method		HP Processing Method	PP051925

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24330,PP24331,PP24332,PP24333,PP24334,PP24335,PP24336,PP24337,PP24338,PP24339,PP24340,PP24341,PP24342,PP24343,PP24344 ,PP24345,PP24346,PP24347,PP24348,PP24349,PP24350,PP24351,PP24352,PP24353,PP24354,PP24355,PP24356,PP24357,PP24358,PP2435 9,PP24360,PP24361,PP24362,PP24363,PP24364,PP24365,PP24366,PP24367,PP24368,PP24369
CCC	PP24332,PP24347,PP24352,PP24357
Internal Standard/PEM	
ICV/I.BLK	PP24370,PP24371,PP24372,PP24373,PP24374,PP24375,PP24376,PP24377,PP24378,PP24379,PP24380,PP24381,PP24382,PP24384,PP24385,PP24386,PP2
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	Q2240-09	PP072703.D	06 Jun 2025 18:24	YP\AJ	Ok,M
23	Q2241-01	PP072704.D	06 Jun 2025 18:40	YP\AJ	Ok,M
24	Q2241-05	PP072705.D	06 Jun 2025 18:56	YP\AJ	Ok
25	Q2242-01	PP072706.D	06 Jun 2025 19:13	YP\AJ	Ok
26	Q2244-01	PP072707.D	06 Jun 2025 19:29	YP\AJ	Ok
27	PB168325BL	PP072708.D	06 Jun 2025 19:46	YP\AJ	Ok
28	PB168325BS	PP072709.D	06 Jun 2025 20:02	YP\AJ	Not Ok
29	PB168325BSD	PP072710.D	06 Jun 2025 20:18	YP\AJ	Not Ok
30	Q2198-05	PP072711.D	06 Jun 2025 20:35	YP\AJ	Ok
31	Q2216-02	PP072712.D	06 Jun 2025 20:51	YP\AJ	Ok
32	AR1660CCC500	PP072713.D	06 Jun 2025 21:40	YP\AJ	Ok,M
33	AR1242CCC500	PP072714.D	06 Jun 2025 22:30	YP\AJ	Ok,M
34	AR1248CCC500	PP072715.D	06 Jun 2025 22:46	YP\AJ	Ok,M
35	AR1254CCC500	PP072716.D	06 Jun 2025 23:03	YP\AJ	Ok,M
36	I.BLK	PP072717.D	06 Jun 2025 23:19	YP\AJ	Ok,M
37	Q2216-03	PP072718.D	06 Jun 2025 23:35	YP\AJ	Ok,M
38	Q2216-04	PP072719.D	06 Jun 2025 23:52	YP\AJ	Not Ok
39	Q2216-05	PP072720.D	07 Jun 2025 00:08	YP\AJ	Ok,M
40	Q2216-06	PP072721.D	07 Jun 2025 00:25	YP\AJ	Ok,M
41	Q2237-02	PP072722.D	07 Jun 2025 00:41	YP\AJ	Ok,M
42	Q2221-02	PP072723.D	07 Jun 2025 00:58	YP\AJ	Ok,M
43	Q2221-03	PP072724.D	07 Jun 2025 01:14	YP\AJ	Ok
44	Q2218-03	PP072725.D	07 Jun 2025 01:31	YP\AJ	Ok,M

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Instrument ID: ECD_P

Daily Analysis Runlog For Sequence/QCBatch ID # PP060625

Review By	yogesh	Review On	6/6/2025 11:16:52 AM		
Supervise By	mohammad	Supervise On	6/10/2025 2:35:51 AM		
SubDirectory	PP060625	HP Acquire Method		HP Processing Method	PP051925

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24330,PP24331,PP24332,PP24333,PP24334,PP24335,PP24336,PP24337,PP24338,PP24339,PP24340,PP24341,PP24342,PP24343,PP24344 ,PP24345,PP24346,PP24347,PP24348,PP24349,PP24350,PP24351,PP24352,PP24353,PP24354,PP24355,PP24356,PP24357,PP24358,PP2435 9,PP24360,PP24361,PP24362,PP24363,PP24364,PP24365,PP24366,PP24367,PP24368,PP24369
CCC	PP24332,PP24347,PP24352,PP24357
Internal Standard/PEM	
ICV/I.BLK	PP24370,PP24371,PP24372,PP24373,PP24374,PP24375,PP24376,PP24377,PP24378,PP24379,PP24380,PP24381,PP24382,PP24384,PP24385,PP24386,PP2
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

45	AR1660CCC500	PP072726.D	07 Jun 2025 02:36	YP\AJ	Ok,M
46	AR1242CCC500	PP072727.D	07 Jun 2025 03:25	YP\AJ	Ok,M
47	AR1248CCC500	PP072728.D	07 Jun 2025 03:42	YP\AJ	Ok,M
48	AR1254CCC500	PP072729.D	07 Jun 2025 03:58	YP\AJ	Ok,M
49	I.BLK	PP072730.D	07 Jun 2025 04:15	YP\AJ	Ok,M

M : Manual Integration

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Instrument ID: ECD_P

Daily Analysis Runlog For Sequence/QCBatch ID # PP060925

Review By	yogesh	Review On	6/9/2025 11:28:27 AM		
Supervise By	mohammad	Supervise On	6/11/2025 2:15:29 AM		
SubDirectory	PP060925	HP Acquire Method		HP Processing Method	PP051925

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24330,PP24331,PP24332,PP24333,PP24334,PP24335,PP24336,PP24337,PP24338,PP24339,PP24340,PP24341,PP24342,PP24343,PP24344 ,PP24345,PP24346,PP24347,PP24348,PP24349,PP24350,PP24351,PP24352,PP24353,PP24354,PP24355,PP24356,PP24357,PP24358,PP2435 9,PP24360,PP24361,PP24362,PP24363,PP24364,PP24365,PP24366,PP24367,PP24368,PP24369
CCC	PP24332,PP24347,PP24352,PP24357
Internal Standard/PEM	
ICV/I.BLK	PP24370,PP24371,PP24372,PP24373,PP24374,PP24375,PP24376,PP24377,PP24378,PP24379,PP24380,PP24381,PP24382,PP24384,PP24385,PP24386,PP2
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	HEXANE	PP072731.D	09 Jun 2025 09:05	YP\AJ	Ok
2	AR1660CCC500	PP072732.D	09 Jun 2025 09:22	YP\AJ	Ok,M
3	AR1242CCC500	PP072733.D	09 Jun 2025 09:53	YP\AJ	Ok
4	AR1248CCC500	PP072734.D	09 Jun 2025 10:09	YP\AJ	Ok,M
5	AR1254CCC500	PP072735.D	09 Jun 2025 10:26	YP\AJ	Ok,M
6	AR1268CCC500	PP072736.D	09 Jun 2025 10:42	YP\AJ	Ok,M
7	I.BLK	PP072737.D	09 Jun 2025 10:59	YP\AJ	Ok,M
8	PB168325BS	PP072738.D	09 Jun 2025 11:17	YP\AJ	Ok,M
9	PB168325BSD	PP072739.D	09 Jun 2025 11:34	YP\AJ	Ok,M
10	Q2216-04	PP072740.D	09 Jun 2025 11:50	YP\AJ	Ok,M
11	Q2240-01	PP072741.D	09 Jun 2025 12:06	YP\AJ	Ok,M
12	Q2240-05	PP072742.D	09 Jun 2025 12:23	YP\AJ	Ok,M
13	PB168349BL	PP072743.D	09 Jun 2025 13:12	YP\AJ	Ok,M
14	PB168349BS	PP072744.D	09 Jun 2025 13:29	YP\AJ	Ok,M
15	Q2246-01	PP072745.D	09 Jun 2025 13:45	YP\AJ	Ok,M
16	Q2246-01MS	PP072746.D	09 Jun 2025 14:01	YP\AJ	Ok,M
17	Q2246-01MSD	PP072747.D	09 Jun 2025 14:18	YP\AJ	Ok,M
18	AR1660CCC500	PP072748.D	09 Jun 2025 15:18	YP\AJ	Ok,M
19	AR1242CCC500	PP072749.D	09 Jun 2025 15:34	YP\AJ	Ok,M
20	AR1248CCC500	PP072750.D	09 Jun 2025 15:50	YP\AJ	Ok,M
21	AR1254CCC500	PP072751.D	09 Jun 2025 16:07	YP\AJ	Ok,M

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Instrument ID: ECD_P

Daily Analysis Runlog For Sequence/QCBatch ID # PP060925

Review By	yogesh	Review On	6/9/2025 11:28:27 AM		
Supervise By	mohammad	Supervise On	6/11/2025 2:15:29 AM		
SubDirectory	PP060925	HP Acquire Method		HP Processing Method	PP051925

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24330,PP24331,PP24332,PP24333,PP24334,PP24335,PP24336,PP24337,PP24338,PP24339,PP24340,PP24341,PP24342,PP24343,PP24344 ,PP24345,PP24346,PP24347,PP24348,PP24349,PP24350,PP24351,PP24352,PP24353,PP24354,PP24355,PP24356,PP24357,PP24358,PP2435 9,PP24360,PP24361,PP24362,PP24363,PP24364,PP24365,PP24366,PP24367,PP24368,PP24369
CCC	PP24332,PP24347,PP24352,PP24357
Internal Standard/PEM	
ICV/I.BLK	PP24370,PP24371,PP24372,PP24373,PP24374,PP24375,PP24376,PP24377,PP24378,PP24379,PP24380,PP24381,PP24382,PP24384,PP24385,PP24386,PP2
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	AR1268CCC500	PP072752.D	09 Jun 2025 16:23	YP\AJ	Ok,M
23	I.BLK	PP072753.D	09 Jun 2025 16:39	YP\AJ	Ok,M
24	Q2248-01	PP072754.D	09 Jun 2025 16:56	YP\AJ	Ok,M
25	Q2259-01	PP072755.D	09 Jun 2025 17:12	YP\AJ	Ok,M
26	Q2259-03	PP072756.D	09 Jun 2025 17:28	YP\AJ	Ok,M
27	Q2260-01	PP072757.D	09 Jun 2025 17:45	YP\AJ	Ok,M
28	Q2262-01	PP072758.D	09 Jun 2025 18:01	YP\AJ	Ok,M
29	Q2262-03	PP072759.D	09 Jun 2025 18:17	YP\AJ	Ok,M
30	Q2265-01	PP072760.D	09 Jun 2025 18:34	YP\AJ	Ok,M
31	Q2266-01	PP072761.D	09 Jun 2025 18:50	YP\AJ	Ok,M
32	Q2266-05	PP072762.D	09 Jun 2025 19:06	YP\AJ	Ok,M
33	Q2221-01	PP072763.D	09 Jun 2025 19:22	YP\AJ	Ok,M
34	AR1660CCC500	PP072764.D	09 Jun 2025 20:22	YP\AJ	Ok,M
35	AR1242CCC500	PP072765.D	09 Jun 2025 20:55	YP\AJ	Ok,M
36	AR1248CCC500	PP072766.D	09 Jun 2025 21:11	YP\AJ	Ok,M
37	AR1254CCC500	PP072767.D	09 Jun 2025 21:27	YP\AJ	Ok,M
38	AR1268CCC500	PP072768.D	09 Jun 2025 21:44	YP\AJ	Ok,M
39	I.BLK	PP072769.D	09 Jun 2025 22:00	YP\AJ	Ok,M

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Instrument ID: ECD_O

Daily Analysis Runlog For Sequence/QCBatch ID # PO051525

Review By	yogesh	Review On	5/14/2025 3:39:03 PM		
Supervise By	mohammad	Supervise On	5/16/2025 1:55:32 AM		
SubDirectory	PO051525	HP Acquire Method		HP Processing Method	PO051525

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24330,PP24331,PP24332,PP24333,PP24334,PP24335,PP24336,PP24337,PP24338,PP24339,PP24340,PP24341,PP24342,PP24343,PP24344,PP24345,PP24346,PP24347,PP24348,PP24349,PP24350,PP24351,PP24352,PP24353,PP24354,PP24355,PP24356,PP24357,PP24358,PP24359,PP24360,PP24361,PP24362,PP24363,PP24364,PP24365,PP24366,PP24367,PP24368,PP24369
CCC	
Internal Standard/PEM	
ICV/I.BLK	PP24370,PP24371,PP24372,PP24373,PP24374,PP24375,PP24376,PP24377,PP24378,PP24379,PP24380,PP24381,PP24382,PP24384,PP24385,PP24386,PP24387
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	HEXANE	HEXANE	PO111056.D	14 May 2025 16:43		YP/AJ	Ok
2	I.BLK	I.BLK	PO111057.D	14 May 2025 17:01		YP/AJ	Ok
3	AR1660ICC1000	AR1660ICC1000	PO111058.D	14 May 2025 17:19		YP/AJ	Ok
4	AR1660ICC750	AR1660ICC750	PO111059.D	14 May 2025 17:38		YP/AJ	Ok,M
5	AR1660ICC500	AR1660ICC500	PO111060.D	14 May 2025 17:56		YP/AJ	Ok
6	AR1660ICC250	AR1660ICC250	PO111061.D	14 May 2025 18:15		YP/AJ	Ok,M
7	AR1660ICC050	AR1660ICC050	PO111062.D	14 May 2025 18:33		YP/AJ	Ok,M
8	AR1221ICC500	AR1221ICC500	PO111063.D	14 May 2025 18:51		YP/AJ	Ok
9	AR1232ICC500	AR1232ICC500	PO111064.D	14 May 2025 19:10		YP/AJ	Ok
10	AR1242ICC1000	AR1242ICC1000	PO111065.D	14 May 2025 19:28		YP/AJ	Ok
11	AR1242ICC750	AR1242ICC750	PO111066.D	14 May 2025 19:46		YP/AJ	Ok
12	AR1242ICC500	AR1242ICC500	PO111067.D	14 May 2025 20:05		YP/AJ	Ok
13	AR1242ICC250	AR1242ICC250	PO111068.D	14 May 2025 20:23		YP/AJ	Ok
14	AR1242ICC050	AR1242ICC050	PO111069.D	14 May 2025 20:41		YP/AJ	Ok
15	AR1248ICC1000	AR1248ICC1000	PO111070.D	14 May 2025 21:00		YP/AJ	Ok
16	AR1248ICC750	AR1248ICC750	PO111071.D	14 May 2025 21:18		YP/AJ	Ok
17	AR1248ICC500	AR1248ICC500	PO111072.D	14 May 2025 21:37		YP/AJ	Ok
18	AR1248ICC250	AR1248ICC250	PO111073.D	14 May 2025 21:54		YP/AJ	Ok

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Instrument ID: ECD_O

Daily Analysis Runlog For Sequence/QCBatch ID # PO051525

Review By	yogesh	Review On	5/14/2025 3:39:03 PM		
Supervise By	mohammad	Supervise On	5/16/2025 1:55:32 AM		
SubDirectory	PO051525	HP Acquire Method		HP Processing Method	PO051525

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24330,PP24331,PP24332,PP24333,PP24334,PP24335,PP24336,PP24337,PP24338,PP24339,PP24340,PP24341,PP24342,PP24343,PP24344,PP24345,PP24346,PP24347,PP24348,PP24349,PP24350,PP24351,PP24352,PP24353,PP24354,PP24355,PP24356,PP24357,PP24358,PP24359,PP24360,PP24361,PP24362,PP24363,PP24364,PP24365,PP24366,PP24367,PP24368,PP24369
CCC	
Internal Standard/PEM	
ICV/I.BLK	PP24370,PP24371,PP24372,PP24373,PP24374,PP24375,PP24376,PP24377,PP24378,PP24379,PP24380,PP24381,PP24382,PP24384,PP24385,PP24386,PP24387
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	AR1248ICC050	AR1248ICC050	PO111074.D	14 May 2025 22:12		YP/AJ	Ok
20	AR1254ICC1000	AR1254ICC1000	PO111075.D	14 May 2025 22:31		YP/AJ	Ok
21	AR1254ICC750	AR1254ICC750	PO111076.D	14 May 2025 22:49		YP/AJ	Ok
22	AR1254ICC500	AR1254ICC500	PO111077.D	14 May 2025 23:06		YP/AJ	Ok
23	AR1254ICC250	AR1254ICC250	PO111078.D	14 May 2025 23:25		YP/AJ	Ok
24	AR1254ICC050	AR1254ICC050	PO111079.D	14 May 2025 23:43		YP/AJ	Ok
25	AR1262ICC500	AR1262ICC500	PO111080.D	15 May 2025 00:01		YP/AJ	Ok
26	AR1268ICC1000	AR1268ICC1000	PO111081.D	15 May 2025 00:19		YP/AJ	Ok
27	AR1268ICC750	AR1268ICC750	PO111082.D	15 May 2025 00:37		YP/AJ	Ok
28	AR1268ICC500	AR1268ICC500	PO111083.D	15 May 2025 00:56		YP/AJ	Ok
29	AR1268ICC250	AR1268ICC250	PO111084.D	15 May 2025 01:14		YP/AJ	Ok
30	AR1268ICC050	AR1268ICC050	PO111085.D	15 May 2025 01:31		YP/AJ	Ok
31	PO051525ICV500	ICVPO051525	PO111086.D	15 May 2025 01:50		YP/AJ	Ok
32	AR1242ICV500	ICVPO051525AR1242	PO111087.D	15 May 2025 02:26		YP/AJ	Ok
33	AR1248ICV500	ICVPO051525AR1248	PO111088.D	15 May 2025 03:03		YP/AJ	Ok
34	AR1254ICV500	ICVPO051525AR1254	PO111089.D	15 May 2025 03:40		YP/AJ	Ok
35	AR1268ICV500	ICVPO051525AR1268	PO111090.D	15 May 2025 04:17		YP/AJ	Ok

M : Manual Integration

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Instrument ID: ECD_O

Daily Analysis Runlog For Sequence/QCBatch ID # PO060425

Review By	yogesh	Review On	6/4/2025 10:15:40 AM		
Supervise By	mohammad	Supervise On	6/6/2025 2:01:29 AM		
SubDirectory	PO060425	HP Acquire Method		HP Processing Method	PO051525

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24330,PP24331,PP24332,PP24333,PP24334,PP24335,PP24336,PP24337,PP24338,PP24339,PP24340,PP24341,PP24342,PP24343,PP24344,PP24345,PP24346,PP24347,PP24348,PP24349,PP24350,PP24351,PP24352,PP24353,PP24354,PP24355,PP24356,PP24357,PP24358,PP24359,PP24360,PP24361,PP24362,PP24363,PP24364,PP24365,PP24366,PP24367,PP24368,PP24369
CCC	PP24332,PP24347,PP24352,PP24357
Internal Standard/PEM	
ICV/I.BLK	PP24370,PP24371,PP24372,PP24373,PP24374,PP24375,PP24376,PP24377,PP24378,PP24379,PP24380,PP24381,PP24382,PP24384,PP24385,PP24386,PP24387
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	HEXANE	HEXANE	PO111452.D	04 Jun 2025 08:39		YP/AJ	Ok
2	AR1660CCC500	AR1660CCC500	PO111453.D	04 Jun 2025 08:57		YP/AJ	Ok,M
3	AR1242CCC500	AR1242CCC500	PO111454.D	04 Jun 2025 09:18		YP/AJ	Ok,M
4	AR1248CCC500	AR1248CCC500	PO111455.D	04 Jun 2025 09:36		YP/AJ	Ok,M
5	AR1254CCC500	AR1254CCC500	PO111456.D	04 Jun 2025 09:54		YP/AJ	Ok,M
6	I.BLK	I.BLK	PO111457.D	04 Jun 2025 10:13		YP/AJ	Ok,M
7	Q2175-01	32525	PO111458.D	04 Jun 2025 10:31	AR1254 hits	YP/AJ	Ok,M
8	Q2176-01	TP-46	PO111459.D	04 Jun 2025 10:49		YP/AJ	Ok,M
9	Q2176-02	TP-56	PO111460.D	04 Jun 2025 11:08		YP/AJ	Ok,M
10	Q2176-03	TP-25	PO111461.D	04 Jun 2025 11:26	AR1260 Hit	YP/AJ	Ok,M
11	Q2175-06RE	EGR-LIQUIDRE	PO111462.D	04 Jun 2025 11:50	All surrogate low	YP/AJ	Confirms
12	Q2171-02	5-28-25-B	PO111463.D	04 Jun 2025 12:57	AR1242 Hit	YP/AJ	Ok,M
13	Q2171-03	51925	PO111464.D	04 Jun 2025 13:15	AR1242 Hit	YP/AJ	Ok,M
14	Q2193-01	VNJ259-1	PO111465.D	04 Jun 2025 13:33	AR1242 Hit	YP/AJ	Ok,M
15	Q2193-02	VNJ259-2	PO111466.D	04 Jun 2025 13:51	AR1242 Hit	YP/AJ	Ok,M
16	Q2193-03	VNJ259-3	PO111467.D	04 Jun 2025 14:09	AR1248 Hit	YP/AJ	Ok,M
17	AR1660CCC500	AR1660CCC500	PO111468.D	04 Jun 2025 15:23		YP/AJ	Ok,M
18	AR1242CCC500	AR1242CCC500	PO111469.D	04 Jun 2025 15:41		YP/AJ	Ok,M

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Fax : 908 789 8922

Instrument ID: ECD_O

Daily Analysis Runlog For Sequence/QCBatch ID # PO060425

Review By	yogesh	Review On	6/4/2025 10:15:40 AM		
Supervise By	mohammad	Supervise On	6/6/2025 2:01:29 AM		
SubDirectory	PO060425	HP Acquire Method		HP Processing Method	PO051525

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24330,PP24331,PP24332,PP24333,PP24334,PP24335,PP24336,PP24337,PP24338,PP24339,PP24340,PP24341,PP24342,PP24343,PP24344,PP24345,PP24346,PP24347,PP24348,PP24349,PP24350,PP24351,PP24352,PP24353,PP24354,PP24355,PP24356,PP24357,PP24358,PP24359,PP24360,PP24361,PP24362,PP24363,PP24364,PP24365,PP24366,PP24367,PP24368,PP24369
CCC	PP24332,PP24347,PP24352,PP24357
Internal Standard/PEM	
ICV/I.BLK	PP24370,PP24371,PP24372,PP24373,PP24374,PP24375,PP24376,PP24377,PP24378,PP24379,PP24380,PP24381,PP24382,PP24384,PP24385,PP24386,PP24387
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	AR1248CCC500	AR1248CCC500	PO111470.D	04 Jun 2025 15:59		YP/AJ	Ok,M
20	AR1254CCC500	AR1254CCC500	PO111471.D	04 Jun 2025 16:18		YP/AJ	Ok,M
21	I.BLK	I.BLK	PO111472.D	04 Jun 2025 16:35		YP/AJ	Ok,M
22	Q2198-03	B-207-SB02	PO111473.D	04 Jun 2025 16:52		YP/AJ	Ok,M
23	Q2199-01	ETGI-343	PO111474.D	04 Jun 2025 17:10		YP/AJ	Ok,M
24	Q2199-03	VNJ-231	PO111475.D	04 Jun 2025 17:28		YP/AJ	Ok,M
25	Q2199-05	72-11978	PO111476.D	04 Jun 2025 17:45		YP/AJ	Ok,M
26	AR1660CCC500	AR1660CCC500	PO111477.D	04 Jun 2025 18:57		YP/AJ	Ok,M
27	AR1242CCC500	AR1242CCC500	PO111478.D	04 Jun 2025 19:33		YP/AJ	Ok,M
28	AR1248CCC500	AR1248CCC500	PO111479.D	04 Jun 2025 19:50		YP/AJ	Ok,M
29	AR1254CCC500	AR1254CCC500	PO111480.D	04 Jun 2025 20:08		YP/AJ	Ok,M
30	I.BLK	I.BLK	PO111481.D	04 Jun 2025 20:27		YP/AJ	Ok,M

M : Manual Integration

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Fax : 908 789 8922

Instrument ID: ECD_P

Daily Analysis Runlog For Sequence/QCBatch ID # PP051925

Review By	yogesh	Review On	5/19/2025 12:22:08 PM		
Supervise By	mohammad	Supervise On	5/22/2025 6:37:35 AM		
SubDirectory	PP051925	HP Acquire Method		HP Processing Method	PP051925

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24330,PP24331,PP24332,PP24333,PP24334,PP24335,PP24336,PP24337,PP24338,PP24339,PP24340,PP24341,PP24342,PP24343,PP24344,PP24345,PP24346,PP24347,PP24348,PP24349,PP24350,PP24351,PP24352,PP24353,PP24354,PP24355,PP24356,PP24357,PP24358,PP24359,PP24360,PP24361,PP24362,PP24363,PP24364,PP24365,PP24366,PP24367,PP24368,PP24369
CCC	
Internal Standard/PEM	
ICV/I.BLK	PP24370,PP24371,PP24372,PP24373,PP24374,PP24375,PP24376,PP24377,PP24378,PP24379,PP24380,PP24381,PP24382,PP24384,PP24385,PP24386,PP24387
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	HEXANE	HEXANE	PP072162.D	19 May 2025 09:09		YP\AJ	Ok
2	I.BLK	I.BLK	PP072163.D	19 May 2025 09:26		YP\AJ	Ok
3	AR1660ICC1000	AR1660ICC1000	PP072164.D	19 May 2025 09:42		YP\AJ	Ok
4	AR1660ICC750	AR1660ICC750	PP072165.D	19 May 2025 09:59		YP\AJ	Ok
5	AR1660ICC500	AR1660ICC500	PP072166.D	19 May 2025 10:15		YP\AJ	Ok
6	AR1660ICC250	AR1660ICC250	PP072167.D	19 May 2025 10:32		YP\AJ	Ok
7	AR1660ICC050	AR1660ICC050	PP072168.D	19 May 2025 10:48		YP\AJ	Ok,M
8	AR1221ICC500	AR1221ICC500	PP072169.D	19 May 2025 11:05		YP\AJ	Ok
9	AR1232ICC1000	AR1232ICC1000	PP072170.D	19 May 2025 11:21		YP\AJ	Ok
10	AR1232ICC750	AR1232ICC750	PP072171.D	19 May 2025 11:38		YP\AJ	Ok
11	AR1232ICC500	AR1232ICC500	PP072172.D	19 May 2025 11:54		YP\AJ	Ok
12	AR1232ICC250	AR1232ICC250	PP072173.D	19 May 2025 12:10		YP\AJ	Ok
13	AR1232ICC050	AR1232ICC050	PP072174.D	19 May 2025 12:27		YP\AJ	Ok,M
14	AR1242ICC1000	AR1242ICC1000	PP072175.D	19 May 2025 12:43		YP\AJ	Ok
15	AR1242ICC750	AR1242ICC750	PP072176.D	19 May 2025 12:59		YP\AJ	Ok
16	AR1242ICC500	AR1242ICC500	PP072177.D	19 May 2025 13:15		YP\AJ	Ok
17	AR1242ICC250	AR1242ICC250	PP072178.D	19 May 2025 13:32		YP\AJ	Ok
18	AR1242ICC050	AR1242ICC050	PP072179.D	19 May 2025 13:48		YP\AJ	Ok,M

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Instrument ID: ECD_P

Daily Analysis Runlog For Sequence/QCBatch ID # PP051925

Review By	yogesh	Review On	5/19/2025 12:22:08 PM		
Supervise By	mohammad	Supervise On	5/22/2025 6:37:35 AM		
SubDirectory	PP051925	HP Acquire Method		HP Processing Method	PP051925

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24330,PP24331,PP24332,PP24333,PP24334,PP24335,PP24336,PP24337,PP24338,PP24339,PP24340,PP24341,PP24342,PP24343,PP24344,PP24345,PP24346,PP24347,PP24348,PP24349,PP24350,PP24351,PP24352,PP24353,PP24354,PP24355,PP24356,PP24357,PP24358,PP24359,PP24360,PP24361,PP24362,PP24363,PP24364,PP24365,PP24366,PP24367,PP24368,PP24369
CCC	
Internal Standard/PEM	
ICV/I.BLK	PP24370,PP24371,PP24372,PP24373,PP24374,PP24375,PP24376,PP24377,PP24378,PP24379,PP24380,PP24381,PP24382,PP24384,PP24385,PP24386,PP24387
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	AR1248ICC1000	AR1248ICC1000	PP072180.D	19 May 2025 14:04		YP\AJ	Ok
20	AR1248ICC750	AR1248ICC750	PP072181.D	19 May 2025 14:20		YP\AJ	Ok
21	AR1248ICC500	AR1248ICC500	PP072182.D	19 May 2025 14:37		YP\AJ	Ok
22	AR1248ICC250	AR1248ICC250	PP072183.D	19 May 2025 14:53		YP\AJ	Ok
23	AR1248ICC050	AR1248ICC050	PP072184.D	19 May 2025 15:25		YP\AJ	Ok,M
24	AR1254ICC1000	AR1254ICC1000	PP072185.D	19 May 2025 15:42		YP\AJ	Ok
25	AR1254ICC750	AR1254ICC750	PP072186.D	19 May 2025 15:58		YP\AJ	Ok
26	AR1254ICC500	AR1254ICC500	PP072187.D	19 May 2025 16:14		YP\AJ	Ok
27	AR1254ICC250	AR1254ICC250	PP072188.D	19 May 2025 16:31		YP\AJ	Ok
28	AR1254ICC050	AR1254ICC050	PP072189.D	19 May 2025 16:47		YP\AJ	Ok,M
29	AR1262ICC500	AR1262ICC500	PP072190.D	19 May 2025 17:03		YP\AJ	Ok
30	AR1268ICC1000	AR1268ICC1000	PP072191.D	19 May 2025 17:20		YP\AJ	Ok
31	AR1268ICC750	AR1268ICC750	PP072192.D	19 May 2025 17:36		YP\AJ	Ok
32	AR1268ICC500	AR1268ICC500	PP072193.D	19 May 2025 17:53		YP\AJ	Ok
33	AR1268ICC250	AR1268ICC250	PP072194.D	19 May 2025 18:09		YP\AJ	Ok
34	AR1268ICC050	AR1268ICC050	PP072195.D	19 May 2025 18:25		YP\AJ	Ok,M
35	PP051925ICV500	ICVPP051925	PP072196.D	19 May 2025 18:42		YP\AJ	Ok
36	AR1232ICV500	ICVPP051925AR1232	PP072197.D	19 May 2025 19:14		YP\AJ	Ok
37	AR1242ICV500	ICVPP051925AR1242	PP072198.D	19 May 2025 19:47		YP\AJ	Ok

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Daily Analysis Runlog For Sequence/QCBatch ID # PP051925

Review By	yogesh	Review On	5/19/2025 12:22:08 PM		
Supervise By	mohammad	Supervise On	5/22/2025 6:37:35 AM		
SubDirectory	PP051925	HP Acquire Method		HP Processing Method	PP051925

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24330,PP24331,PP24332,PP24333,PP24334,PP24335,PP24336,PP24337,PP24338,PP24339,PP24340,PP24341,PP24342,PP24343,PP24344,PP24345,PP24346,PP24347,PP24348,PP24349,PP24350,PP24351,PP24352,PP24353,PP24354,PP24355,PP24356,PP24357,PP24358,PP24359,PP24360,PP24361,PP24362,PP24363,PP24364,PP24365,PP24366,PP24367,PP24368,PP24369
CCC	
Internal Standard/PEM	
ICV/I.BLK	PP24370,PP24371,PP24372,PP24373,PP24374,PP24375,PP24376,PP24377,PP24378,PP24379,PP24380,PP24381,PP24382,PP24384,PP24385,PP24386,PP24387
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

38	AR1248ICV500	ICVPP051925AR1248	PP072199.D	19 May 2025 20:19		YP\AJ	Ok
39	AR1254ICV500	ICVPP051925AR1254	PP072200.D	19 May 2025 20:52		YP\AJ	Ok
40	AR1268ICV500	ICVPP051925AR1268	PP072201.D	19 May 2025 21:25		YP\AJ	Ok

M : Manual Integration

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Instrument ID: ECD_P

Daily Analysis Runlog For Sequence/QCBatch ID # PP060425

Review By	yogesh	Review On	6/4/2025 10:14:35 AM		
Supervise By	mohammad	Supervise On	6/6/2025 9:37:42 AM		
SubDirectory	PP060425	HP Acquire Method		HP Processing Method	PP051925

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24330,PP24331,PP24332,PP24333,PP24334,PP24335,PP24336,PP24337,PP24338,PP24339,PP24340,PP24341,PP24342,PP24343,PP24344,PP24345,PP24346,PP24347,PP24348,PP24349,PP24350,PP24351,PP24352,PP24353,PP24354,PP24355,PP24356,PP24357,PP24358,PP24359,PP24360,PP24361,PP24362,PP24363,PP24364,PP24365,PP24366,PP24367,PP24368,PP24369
CCC	PP24332,PP24347,PP24352,PP24357
Internal Standard/PEM	
ICV/I.BLK	PP24370,PP24371,PP24372,PP24373,PP24374,PP24375,PP24376,PP24377,PP24378,PP24379,PP24380,PP24381,PP24382,PP24384,PP24385,PP24386,PP24387
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	HEXANE	HEXANE	PP072603.D	04 Jun 2025 08:34		YP\AJ	Ok
2	AR1660CCC500	AR1660CCC500	PP072604.D	04 Jun 2025 08:50		YP\AJ	Ok,M
3	AR1242CCC500	AR1242CCC500	PP072605.D	04 Jun 2025 09:11		YP\AJ	Ok,M
4	AR1248CCC500	AR1248CCC500	PP072606.D	04 Jun 2025 09:27		YP\AJ	Ok,M
5	AR1254CCC500	AR1254CCC500	PP072607.D	04 Jun 2025 09:43		YP\AJ	Ok,M
6	I.BLK	I.BLK	PP072608.D	04 Jun 2025 10:00		YP\AJ	Ok,M
7	PB168257BS	PB168257BS	PP072609.D	04 Jun 2025 10:16		YP\AJ	Ok,M
8	PB168257BSD	PB168257BSD	PP072610.D	04 Jun 2025 10:32		YP\AJ	Ok,M
9	Q2168-01DL	SAN-A1-A3DL	PP072611.D	04 Jun 2025 10:48	AR1242 Hit	YP\AJ	Ok
10	Q2168-05DL	SAN-B1-B3DL	PP072612.D	04 Jun 2025 11:04	AR1242 Hit	YP\AJ	Ok
11	Q2168-09DL	SAN-C1-C2DL	PP072613.D	04 Jun 2025 11:21	AR1242 Hit	YP\AJ	Ok
12	PB168252BS	PB168252BS	PP072614.D	04 Jun 2025 11:37		YP\AJ	Ok,M
13	PB168275BL	PB168275BL	PP072615.D	04 Jun 2025 12:55		YP\AJ	Ok
14	PB168275BS	PB168275BS	PP072616.D	04 Jun 2025 13:12	AR1016 fail for recovery	YP\AJ	Not Ok
15	Q2167-01	52225	PP072617.D	04 Jun 2025 13:28	Surrogate fail, AR1242 Hit	YP\AJ	ReRun
16	Q2171-01	5-28-25-A	PP072618.D	04 Jun 2025 13:45	AR1242 Hit,Need Dilution, DCB high 2nd column	YP\AJ	Dilution
17	AR1660CCC500	AR1660CCC500	PP072619.D	04 Jun 2025 14:51		YP\AJ	Ok,M

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Instrument ID: ECD_P

Daily Analysis Runlog For Sequence/QCBatch ID # PP060425

Review By	yogesh	Review On	6/4/2025 10:14:35 AM		
Supervise By	mohammad	Supervise On	6/6/2025 9:37:42 AM		
SubDirectory	PP060425	HP Acquire Method		HP Processing Method	PP051925

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24330,PP24331,PP24332,PP24333,PP24334,PP24335,PP24336,PP24337,PP24338,PP24339,PP24340,PP24341,PP24342,PP24343,PP24344,PP24345,PP24346,PP24347,PP24348,PP24349,PP24350,PP24351,PP24352,PP24353,PP24354,PP24355,PP24356,PP24357,PP24358,PP24359,PP24360,PP24361,PP24362,PP24363,PP24364,PP24365,PP24366,PP24367,PP24368,PP24369
CCC	PP24332,PP24347,PP24352,PP24357
Internal Standard/PEM	
ICV/I.BLK	PP24370,PP24371,PP24372,PP24373,PP24374,PP24375,PP24376,PP24377,PP24378,PP24379,PP24380,PP24381,PP24382,PP24384,PP24385,PP24386,PP24387
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

18	AR1242CCC500	AR1242CCC500	PP072620.D	04 Jun 2025 15:07		YP\AJ	Ok,M
19	AR1248CCC500	AR1248CCC500	PP072621.D	04 Jun 2025 15:23		YP\AJ	Ok,M
20	AR1254CCC500	AR1254CCC500	PP072622.D	04 Jun 2025 15:40		YP\AJ	Ok,M
21	I.BLK	I.BLK	PP072623.D	04 Jun 2025 15:56		YP\AJ	Ok
22	PB168288BL	PB168288BL	PP072624.D	04 Jun 2025 16:13		YP\AJ	Ok,M
23	PB168288BS	PB168288BS	PP072625.D	04 Jun 2025 16:29	AR1016 fail for recovery	YP\AJ	Not Ok
24	Q2182-01	OR-03-06022025	PP072626.D	04 Jun 2025 16:45		YP\AJ	Ok,M
25	Q2192-01	SB-1	PP072627.D	04 Jun 2025 17:02	AR1260 + 1242 Hit , need 25X dilution	YP\AJ	Dilution
26	Q2194-01	COMP-12	PP072628.D	04 Jun 2025 17:18		YP\AJ	Ok
27	Q2194-03	COMP-13	PP072629.D	04 Jun 2025 17:34		YP\AJ	Ok
28	Q2195-01	OK-01-060325	PP072630.D	04 Jun 2025 17:51		YP\AJ	Ok,M
29	Q2195-01MS	OK-01-060325MS	PP072631.D	04 Jun 2025 18:07		YP\AJ	Ok,M
30	Q2195-01MSD	OK-01-060325MSD	PP072632.D	04 Jun 2025 18:23		YP\AJ	Ok,M
31	Q2198-01	B-202-SB02	PP072633.D	04 Jun 2025 18:40		YP\AJ	Ok,M
32	AR1660CCC500	AR1660CCC500	PP072634.D	04 Jun 2025 20:01	AR1016 - 1 low in 1st column , AR1260 - 2,4 low in 1st column	YP\AJ	Ok
33	AR1242CCC500	AR1242CCC500	PP072635.D	04 Jun 2025 20:18	AR1242 - 5 Low in 1st column	YP\AJ	Ok
34	AR1248CCC500	AR1248CCC500	PP072636.D	04 Jun 2025 20:34		YP\AJ	Ok,M
35	AR1254CCC500	AR1254CCC500	PP072637.D	04 Jun 2025 20:50	AR1254 - 2,4 low in 1st column	YP\AJ	Ok,M
36	I.BLK	I.BLK	PP072638.D	04 Jun 2025 21:07		YP\AJ	Ok,M

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Instrument ID: ECD_P

Daily Analysis Runlog For Sequence/QCBatch ID # PP060425

Review By	yogesh	Review On	6/4/2025 10:14:35 AM		
Supervise By	mohammad	Supervise On	6/6/2025 9:37:42 AM		
SubDirectory	PP060425	HP Acquire Method		HP Processing Method	PP051925

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24330,PP24331,PP24332,PP24333,PP24334,PP24335,PP24336,PP24337,PP24338,PP24339,PP24340,PP24341,PP24342,PP24343,PP24344,PP24345,PP24346,PP24347,PP24348,PP24349,PP24350,PP24351,PP24352,PP24353,PP24354,PP24355,PP24356,PP24357,PP24358,PP24359,PP24360,PP24361,PP24362,PP24363,PP24364,PP24365,PP24366,PP24367,PP24368,PP24369
CCC	PP24332,PP24347,PP24352,PP24357
Internal Standard/PEM	
ICV/I.BLK	PP24370,PP24371,PP24372,PP24373,PP24374,PP24375,PP24376,PP24377,PP24378,PP24379,PP24380,PP24381,PP24382,PP24384,PP24385,PP24386,PP24387
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

37	Q2175-09	52725	PP072639.D	04 Jun 2025 21:23	AR1242 hit, DCB low in both column & TCMX low in 1st column	YP\AJ	ReRun
38	Q2171-01DL	5-28-25-ADL	PP072640.D	04 Jun 2025 21:39	AR1242 Hit	YP\AJ	Ok,M
39	AR1660CCC500	AR1660CCC500	PP072641.D	04 Jun 2025 22:45		YP\AJ	Ok,M
40	AR1242CCC500	AR1242CCC500	PP072642.D	04 Jun 2025 23:17		YP\AJ	Ok,M
41	AR1248CCC500	AR1248CCC500	PP072643.D	04 Jun 2025 23:34		YP\AJ	Ok,M
42	AR1254CCC500	AR1254CCC500	PP072644.D	04 Jun 2025 23:50		YP\AJ	Ok,M
43	I.BLK	I.BLK	PP072645.D	05 Jun 2025 00:06		YP\AJ	Ok,M

M : Manual Integration

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Instrument ID: ECD_P

Daily Analysis Runlog For Sequence/QCBatch ID # PP060525

Review By	yogesh	Review On	6/5/2025 1:51:59 PM		
Supervise By	mohammad	Supervise On	6/9/2025 6:08:35 AM		
SubDirectory	PP060525	HP Acquire Method		HP Processing Method	PP051925

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24330,PP24331,PP24332,PP24333,PP24334,PP24335,PP24336,PP24337,PP24338,PP24339,PP24340,PP24341,PP24342,PP24343,PP24344,PP24345,PP24346,PP24347,PP24348,PP24349,PP24350,PP24351,PP24352,PP24353,PP24354,PP24355,PP24356,PP24357,PP24358,PP24359,PP24360,PP24361,PP24362,PP24363,PP24364,PP24365,PP24366,PP24367,PP24368,PP24369
CCC	PP24332,PP24347,PP24352,PP24357
Internal Standard/PEM	
ICV/I.BLK	PP24370,PP24371,PP24372,PP24373,PP24374,PP24375,PP24376,PP24377,PP24378,PP24379,PP24380,PP24381,PP24382,PP24384,PP24385,PP24386,PP24387
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	HEXANE	HEXANE	PP072646.D	05 Jun 2025 08:40		YP\AJ	Ok
2	AR1660CCC500	AR1660CCC500	PP072647.D	05 Jun 2025 08:57		YP\AJ	Ok,M
3	AR1242CCC500	AR1242CCC500	PP072648.D	05 Jun 2025 09:13		YP\AJ	Ok,M
4	AR1248CCC500	AR1248CCC500	PP072649.D	05 Jun 2025 09:29		YP\AJ	Ok,M
5	AR1254CCC500	AR1254CCC500	PP072650.D	05 Jun 2025 09:46		YP\AJ	Ok,M
6	I.BLK	I.BLK	PP072651.D	05 Jun 2025 10:02		YP\AJ	Ok,M
7	PB168275BS	PB168275BS	PP072652.D	05 Jun 2025 10:18		YP\AJ	Ok,M
8	PB168288BS	PB168288BS	PP072653.D	05 Jun 2025 10:35		YP\AJ	Ok
9	Q2167-01RE	52225RE	PP072654.D	05 Jun 2025 10:51	Surrogate fail, AR1242 Hit	YP\AJ	Confirms
10	Q2175-09RE	52725	PP072655.D	05 Jun 2025 11:07	AR1242 hit,DCB low in both column & TCMX low in 1st column	YP\AJ	Confirms
11	Q2192-01DL	SB-1DL	PP072656.D	05 Jun 2025 11:23	AR1260 + 1242 Hit,Need more dilution	YP\AJ	Dilution
12	Q2192-01DL2	SB-1DL2	PP072657.D	05 Jun 2025 11:40	AR1260 + 1242 Hit	YP\AJ	Ok
13	PB168298BL	PB168298BL	PP072658.D	05 Jun 2025 12:57		YP\AJ	Ok,M
14	PB168298BS	PB168298BS	PP072659.D	05 Jun 2025 13:13		YP\AJ	Ok,M
15	Q2207-10	BU-703-COMP-02	PP072660.D	05 Jun 2025 13:30		YP\AJ	Ok,M
16	Q2207-19	BU-703-COMP-03	PP072661.D	05 Jun 2025 13:46		YP\AJ	Ok
17	AR1660CCC500	AR1660CCC500	PP072662.D	05 Jun 2025 14:51		YP\AJ	Ok,M

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Fax : 908 789 8922

Instrument ID: ECD_P

Daily Analysis Runlog For Sequence/QCBatch ID # PP060525

Review By	yogesh	Review On	6/5/2025 1:51:59 PM		
Supervise By	mohammad	Supervise On	6/9/2025 6:08:35 AM		
SubDirectory	PP060525	HP Acquire Method		HP Processing Method	PP051925

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24330,PP24331,PP24332,PP24333,PP24334,PP24335,PP24336,PP24337,PP24338,PP24339,PP24340,PP24341,PP24342,PP24343,PP24344,PP24345,PP24346,PP24347,PP24348,PP24349,PP24350,PP24351,PP24352,PP24353,PP24354,PP24355,PP24356,PP24357,PP24358,PP24359,PP24360,PP24361,PP24362,PP24363,PP24364,PP24365,PP24366,PP24367,PP24368,PP24369
CCC	PP24332,PP24347,PP24352,PP24357
Internal Standard/PEM	
ICV/I.BLK	PP24370,PP24371,PP24372,PP24373,PP24374,PP24375,PP24376,PP24377,PP24378,PP24379,PP24380,PP24381,PP24382,PP24384,PP24385,PP24386,PP24387
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

18	AR1242CCC500	AR1242CCC500	PP072663.D	05 Jun 2025 15:08		YP\AJ	Ok
19	AR1248CCC500	AR1248CCC500	PP072664.D	05 Jun 2025 15:24		YP\AJ	Ok
20	AR1254CCC500	AR1254CCC500	PP072665.D	05 Jun 2025 15:40		YP\AJ	Ok,M
21	I.BLK	I.BLK	PP072666.D	05 Jun 2025 15:57		YP\AJ	Ok,M
22	Q2206-01	TP-1	PP072667.D	05 Jun 2025 16:13		YP\AJ	Ok,M
23	Q2206-01MS	TP-1MS	PP072668.D	05 Jun 2025 16:30		YP\AJ	Ok,M
24	Q2206-01MSD	TP-1MSD	PP072669.D	05 Jun 2025 16:46		YP\AJ	Ok,M
25	Q2207-01	BU-703-COMP-01	PP072670.D	05 Jun 2025 17:02		YP\AJ	Ok
26	Q2207-28	BU-703-COMP-04	PP072671.D	05 Jun 2025 17:19		YP\AJ	Ok
27	Q2207-37	BU-703-COMP-05	PP072672.D	05 Jun 2025 17:35		YP\AJ	Ok
28	Q2208-01	BU-703-COMP-06	PP072673.D	05 Jun 2025 17:51		YP\AJ	Ok
29	Q2208-10	BU-703-COMP-07	PP072674.D	05 Jun 2025 18:08		YP\AJ	Ok
30	Q2208-19	BU-703-COMP-08	PP072675.D	05 Jun 2025 18:24		YP\AJ	Ok
31	Q2208-28	BU-703-COMP-09	PP072676.D	05 Jun 2025 18:40		YP\AJ	Ok
32	AR1660CCC500	AR1660CCC500	PP072677.D	05 Jun 2025 20:02		YP\AJ	Ok,M
33	AR1242CCC500	AR1242CCC500	PP072678.D	05 Jun 2025 20:35		YP\AJ	Ok,M
34	AR1248CCC500	AR1248CCC500	PP072679.D	05 Jun 2025 20:51		YP\AJ	Ok
35	AR1254CCC500	AR1254CCC500	PP072680.D	05 Jun 2025 21:08		YP\AJ	Ok,M
36	I.BLK	I.BLK	PP072681.D	05 Jun 2025 21:24		YP\AJ	Ok,M

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Instrument ID: ECD_P

Daily Analysis Runlog For Sequence/QCBatch ID # PP060525

Review By	yogesh	Review On	6/5/2025 1:51:59 PM		
Supervise By	mohammad	Supervise On	6/9/2025 6:08:35 AM		
SubDirectory	PP060525	HP Acquire Method		HP Processing Method	PP051925

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24330,PP24331,PP24332,PP24333,PP24334,PP24335,PP24336,PP24337,PP24338,PP24339,PP24340,PP24341,PP24342,PP24343,PP24344,PP24345,PP24346,PP24347,PP24348,PP24349,PP24350,PP24351,PP24352,PP24353,PP24354,PP24355,PP24356,PP24357,PP24358,PP24359,PP24360,PP24361,PP24362,PP24363,PP24364,PP24365,PP24366,PP24367,PP24368,PP24369
CCC	PP24332,PP24347,PP24352,PP24357
Internal Standard/PEM	
ICV/I.BLK	PP24370,PP24371,PP24372,PP24373,PP24374,PP24375,PP24376,PP24377,PP24378,PP24379,PP24380,PP24381,PP24382,PP24384,PP24385,PP24386,PP24387
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

M : Manual Integration

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Instrument ID: ECD_P

Daily Analysis Runlog For Sequence/QCBatch ID # PP060625

Review By	yogesh	Review On	6/6/2025 11:16:52 AM		
Supervise By	mohammad	Supervise On	6/10/2025 2:35:51 AM		
SubDirectory	PP060625	HP Acquire Method		HP Processing Method	PP051925

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24330,PP24331,PP24332,PP24333,PP24334,PP24335,PP24336,PP24337,PP24338,PP24339,PP24340,PP24341,PP24342,PP24343,PP24344,PP24345,PP24346,PP24347,PP24348,PP24349,PP24350,PP24351,PP24352,PP24353,PP24354,PP24355,PP24356,PP24357,PP24358,PP24359,PP24360,PP24361,PP24362,PP24363,PP24364,PP24365,PP24366,PP24367,PP24368,PP24369
CCC	PP24332,PP24347,PP24352,PP24357
Internal Standard/PEM	
ICV/I.BLK	PP24370,PP24371,PP24372,PP24373,PP24374,PP24375,PP24376,PP24377,PP24378,PP24379,PP24380,PP24381,PP24382,PP24384,PP24385,PP24386,PP24387
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	HEXANE	HEXANE	PP072682.D	06 Jun 2025 08:57		YP\AJ	Ok
2	AR1660CCC500	AR1660CCC500	PP072683.D	06 Jun 2025 09:13		YP\AJ	Ok,M
3	AR1242CCC500	AR1242CCC500	PP072684.D	06 Jun 2025 09:30		YP\AJ	Ok,M
4	AR1248CCC500	AR1248CCC500	PP072685.D	06 Jun 2025 09:47		YP\AJ	Ok,M
5	AR1254CCC500	AR1254CCC500	PP072686.D	06 Jun 2025 10:03		YP\AJ	Ok,M
6	I.BLK	I.BLK	PP072687.D	06 Jun 2025 10:19		YP\AJ	Ok,M
7	Q2214-01	RBR251425	PP072688.D	06 Jun 2025 10:37		YP\AJ	Ok,M
8	PB168319BL	PB168319BL	PP072689.D	06 Jun 2025 12:37		YP\AJ	Ok,M
9	PB168319BS	PB168319BS	PP072690.D	06 Jun 2025 12:54		YP\AJ	Ok,M
10	Q2223-01	HR-01-06042025	PP072691.D	06 Jun 2025 13:10		YP\AJ	Ok,M
11	Q2223-01MS	HR-01-06042025MS	PP072692.D	06 Jun 2025 13:27		YP\AJ	Ok,M
12	Q2223-01MSD	HR-01-06042025MSD	PP072693.D	06 Jun 2025 13:43	AR1016 recovery fail	YP\AJ	Ok,M
13	Q2223-03	HR-04-06042025	PP072694.D	06 Jun 2025 13:59		YP\AJ	Ok,M
14	Q2224-01	EO-01-06042025	PP072695.D	06 Jun 2025 14:16		YP\AJ	Ok,M
15	Q2225-01	SU-03-06042025	PP072696.D	06 Jun 2025 14:32		YP\AJ	Ok,M
16	Q2227-01	TP07-MHH-WC	PP072697.D	06 Jun 2025 14:49		YP\AJ	Ok
17	AR1660CCC500	AR1660CCC500	PP072698.D	06 Jun 2025 17:01		YP\AJ	Ok,M
18	AR1242CCC500	AR1242CCC500	PP072699.D	06 Jun 2025 17:18		YP\AJ	Ok

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Instrument ID: ECD_P

Daily Analysis Runlog For Sequence/QCBatch ID # PP060625

Review By	yogesh	Review On	6/6/2025 11:16:52 AM		
Supervise By	mohammad	Supervise On	6/10/2025 2:35:51 AM		
SubDirectory	PP060625	HP Acquire Method		HP Processing Method	PP051925

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24330,PP24331,PP24332,PP24333,PP24334,PP24335,PP24336,PP24337,PP24338,PP24339,PP24340,PP24341,PP24342,PP24343,PP24344,PP24345,PP24346,PP24347,PP24348,PP24349,PP24350,PP24351,PP24352,PP24353,PP24354,PP24355,PP24356,PP24357,PP24358,PP24359,PP24360,PP24361,PP24362,PP24363,PP24364,PP24365,PP24366,PP24367,PP24368,PP24369
CCC	PP24332,PP24347,PP24352,PP24357
Internal Standard/PEM	
ICV/I.BLK	PP24370,PP24371,PP24372,PP24373,PP24374,PP24375,PP24376,PP24377,PP24378,PP24379,PP24380,PP24381,PP24382,PP24384,PP24385,PP24386,PP24387
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	AR1248CCC500	AR1248CCC500	PP072700.D	06 Jun 2025 17:34		YP\AJ	Ok,M
20	AR1254CCC500	AR1254CCC500	PP072701.D	06 Jun 2025 17:51		YP\AJ	Ok,M
21	I.BLK	I.BLK	PP072702.D	06 Jun 2025 18:07		YP\AJ	Ok,M
22	Q2240-09	TP-1	PP072703.D	06 Jun 2025 18:24	AR1254 Hit	YP\AJ	Ok,M
23	Q2241-01	TP-N	PP072704.D	06 Jun 2025 18:40		YP\AJ	Ok,M
24	Q2241-05	TP-S	PP072705.D	06 Jun 2025 18:56		YP\AJ	Ok
25	Q2242-01	TP09-MHJ	PP072706.D	06 Jun 2025 19:13		YP\AJ	Ok
26	Q2244-01	TP03-MHC	PP072707.D	06 Jun 2025 19:29		YP\AJ	Ok
27	PB168325BL	PB168325BL	PP072708.D	06 Jun 2025 19:46		YP\AJ	Ok
28	PB168325BS	PB168325BS	PP072709.D	06 Jun 2025 20:02		YP\AJ	Not Ok
29	PB168325BSD	PB168325BSD	PP072710.D	06 Jun 2025 20:18	AR1016 recovery fail	YP\AJ	Not Ok
30	Q2198-05	B-202-GW01	PP072711.D	06 Jun 2025 20:35		YP\AJ	Ok
31	Q2216-02	3887	PP072712.D	06 Jun 2025 20:51		YP\AJ	Ok
32	AR1660CCC500	AR1660CCC500	PP072713.D	06 Jun 2025 21:40		YP\AJ	Ok,M
33	AR1242CCC500	AR1242CCC500	PP072714.D	06 Jun 2025 22:30		YP\AJ	Ok,M
34	AR1248CCC500	AR1248CCC500	PP072715.D	06 Jun 2025 22:46		YP\AJ	Ok,M
35	AR1254CCC500	AR1254CCC500	PP072716.D	06 Jun 2025 23:03		YP\AJ	Ok,M
36	I.BLK	I.BLK	PP072717.D	06 Jun 2025 23:19		YP\AJ	Ok,M
37	Q2216-03	3888	PP072718.D	06 Jun 2025 23:35	TCMX high in 1st column	YP\AJ	Ok,M

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Instrument ID: ECD_P

Daily Analysis Runlog For Sequence/QCBatch ID # PP060625

Review By	yogesh	Review On	6/6/2025 11:16:52 AM		
Supervise By	mohammad	Supervise On	6/10/2025 2:35:51 AM		
SubDirectory	PP060625	HP Acquire Method		HP Processing Method	PP051925

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24330,PP24331,PP24332,PP24333,PP24334,PP24335,PP24336,PP24337,PP24338,PP24339,PP24340,PP24341,PP24342,PP24343,PP24344,PP24345,PP24346,PP24347,PP24348,PP24349,PP24350,PP24351,PP24352,PP24353,PP24354,PP24355,PP24356,PP24357,PP24358,PP24359,PP24360,PP24361,PP24362,PP24363,PP24364,PP24365,PP24366,PP24367,PP24368,PP24369
CCC	PP24332,PP24347,PP24352,PP24357
Internal Standard/PEM	
ICV/I.BLK	PP24370,PP24371,PP24372,PP24373,PP24374,PP24375,PP24376,PP24377,PP24378,PP24379,PP24380,PP24381,PP24382,PP24384,PP24385,PP24386,PP24387
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

38	Q2216-04	3864	PP072719.D	06 Jun 2025 23:52	F Flag in TCMX in 2nd column	YP\AJ	Not Ok
39	Q2216-05	3865	PP072720.D	07 Jun 2025 00:08		YP\AJ	Ok,M
40	Q2216-06	3851	PP072721.D	07 Jun 2025 00:25		YP\AJ	Ok,M
41	Q2237-02	TW-WTS-10	PP072722.D	07 Jun 2025 00:41		YP\AJ	Ok,M
42	Q2221-02	34900	PP072723.D	07 Jun 2025 00:58	AR1242 Hit	YP\AJ	Ok,M
43	Q2221-03	34867	PP072724.D	07 Jun 2025 01:14		YP\AJ	Ok
44	Q2218-03	3309	PP072725.D	07 Jun 2025 01:31		YP\AJ	Ok,M
45	AR1660CCC500	AR1660CCC500	PP072726.D	07 Jun 2025 02:36		YP\AJ	Ok,M
46	AR1242CCC500	AR1242CCC500	PP072727.D	07 Jun 2025 03:25		YP\AJ	Ok,M
47	AR1248CCC500	AR1248CCC500	PP072728.D	07 Jun 2025 03:42		YP\AJ	Ok,M
48	AR1254CCC500	AR1254CCC500	PP072729.D	07 Jun 2025 03:58		YP\AJ	Ok,M
49	I.BLK	I.BLK	PP072730.D	07 Jun 2025 04:15		YP\AJ	Ok,M

M : Manual Integration

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Instrument ID: ECD_P

Daily Analysis Runlog For Sequence/QCBatch ID # PP060925

Review By	yogesh	Review On	6/9/2025 11:28:27 AM		
Supervise By	mohammad	Supervise On	6/11/2025 2:15:29 AM		
SubDirectory	PP060925	HP Acquire Method		HP Processing Method	PP051925

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24330,PP24331,PP24332,PP24333,PP24334,PP24335,PP24336,PP24337,PP24338,PP24339,PP24340,PP24341,PP24342,PP24343,PP24344,PP24345,PP24346,PP24347,PP24348,PP24349,PP24350,PP24351,PP24352,PP24353,PP24354,PP24355,PP24356,PP24357,PP24358,PP24359,PP24360,PP24361,PP24362,PP24363,PP24364,PP24365,PP24366,PP24367,PP24368,PP24369
CCC	PP24332,PP24347,PP24352,PP24357
Internal Standard/PEM	
ICV/I.BLK	PP24370,PP24371,PP24372,PP24373,PP24374,PP24375,PP24376,PP24377,PP24378,PP24379,PP24380,PP24381,PP24382,PP24384,PP24385,PP24386,PP24387
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	HEXANE	HEXANE	PP072731.D	09 Jun 2025 09:05		YP\AJ	Ok
2	AR1660CCC500	AR1660CCC500	PP072732.D	09 Jun 2025 09:22		YP\AJ	Ok,M
3	AR1242CCC500	AR1242CCC500	PP072733.D	09 Jun 2025 09:53		YP\AJ	Ok
4	AR1248CCC500	AR1248CCC500	PP072734.D	09 Jun 2025 10:09		YP\AJ	Ok,M
5	AR1254CCC500	AR1254CCC500	PP072735.D	09 Jun 2025 10:26		YP\AJ	Ok,M
6	AR1268CCC500	AR1268CCC500	PP072736.D	09 Jun 2025 10:42		YP\AJ	Ok,M
7	I.BLK	I.BLK	PP072737.D	09 Jun 2025 10:59		YP\AJ	Ok,M
8	PB168325BS	PB168325BS	PP072738.D	09 Jun 2025 11:17		YP\AJ	Ok,M
9	PB168325BSD	PB168325BSD	PP072739.D	09 Jun 2025 11:34		YP\AJ	Ok,M
10	Q2216-04	3864	PP072740.D	09 Jun 2025 11:50		YP\AJ	Ok,M
11	Q2240-01	TP-3	PP072741.D	09 Jun 2025 12:06	AR1268 Hit	YP\AJ	Ok,M
12	Q2240-05	TP-2	PP072742.D	09 Jun 2025 12:23	AR1268 + 1260 Hit	YP\AJ	Ok,M
13	PB168349BL	PB168349BL	PP072743.D	09 Jun 2025 13:12		YP\AJ	Ok,M
14	PB168349BS	PB168349BS	PP072744.D	09 Jun 2025 13:29		YP\AJ	Ok,M
15	Q2246-01	BU-03-060525	PP072745.D	09 Jun 2025 13:45		YP\AJ	Ok,M
16	Q2246-01MS	BU-03-060525MS	PP072746.D	09 Jun 2025 14:01		YP\AJ	Ok,M
17	Q2246-01MSD	BU-03-060525MSD	PP072747.D	09 Jun 2025 14:18		YP\AJ	Ok,M
18	AR1660CCC500	AR1660CCC500	PP072748.D	09 Jun 2025 15:18		YP\AJ	Ok,M

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Instrument ID: ECD_P

Daily Analysis Runlog For Sequence/QCBatch ID # PP060925

Review By	yogesh	Review On	6/9/2025 11:28:27 AM		
Supervise By	mohammad	Supervise On	6/11/2025 2:15:29 AM		
SubDirectory	PP060925	HP Acquire Method		HP Processing Method	PP051925

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24330,PP24331,PP24332,PP24333,PP24334,PP24335,PP24336,PP24337,PP24338,PP24339,PP24340,PP24341,PP24342,PP24343,PP24344,PP24345,PP24346,PP24347,PP24348,PP24349,PP24350,PP24351,PP24352,PP24353,PP24354,PP24355,PP24356,PP24357,PP24358,PP24359,PP24360,PP24361,PP24362,PP24363,PP24364,PP24365,PP24366,PP24367,PP24368,PP24369
CCC	PP24332,PP24347,PP24352,PP24357
Internal Standard/PEM	
ICV/I.BLK	PP24370,PP24371,PP24372,PP24373,PP24374,PP24375,PP24376,PP24377,PP24378,PP24379,PP24380,PP24381,PP24382,PP24384,PP24385,PP24386,PP24387
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	AR1242CCC500	AR1242CCC500	PP072749.D	09 Jun 2025 15:34		YP\AJ	Ok,M
20	AR1248CCC500	AR1248CCC500	PP072750.D	09 Jun 2025 15:50		YP\AJ	Ok,M
21	AR1254CCC500	AR1254CCC500	PP072751.D	09 Jun 2025 16:07		YP\AJ	Ok,M
22	AR1268CCC500	AR1268CCC500	PP072752.D	09 Jun 2025 16:23	DCB high in both column	YP\AJ	Ok,M
23	I.BLK	I.BLK	PP072753.D	09 Jun 2025 16:39		YP\AJ	Ok,M
24	Q2248-01	TR-05-060525	PP072754.D	09 Jun 2025 16:56		YP\AJ	Ok,M
25	Q2259-01	OU4-PCS-TC-36-06052	PP072755.D	09 Jun 2025 17:12		YP\AJ	Ok,M
26	Q2259-03	OU4-PCS-TC-37-06052	PP072756.D	09 Jun 2025 17:28		YP\AJ	Ok,M
27	Q2260-01	TP10-MHG-WC	PP072757.D	09 Jun 2025 17:45		YP\AJ	Ok,M
28	Q2262-01	ARS20-0032	PP072758.D	09 Jun 2025 18:01		YP\AJ	Ok,M
29	Q2262-03	ARS20-0001	PP072759.D	09 Jun 2025 18:17		YP\AJ	Ok,M
30	Q2265-01	TP11-MHL-WC	PP072760.D	09 Jun 2025 18:34		YP\AJ	Ok,M
31	Q2266-01	WC-3	PP072761.D	09 Jun 2025 18:50		YP\AJ	Ok,M
32	Q2266-05	WC-5	PP072762.D	09 Jun 2025 19:06		YP\AJ	Ok,M
33	Q2221-01	34798	PP072763.D	09 Jun 2025 19:22		YP\AJ	Ok,M
34	AR1660CCC500	AR1660CCC500	PP072764.D	09 Jun 2025 20:22		YP\AJ	Ok,M
35	AR1242CCC500	AR1242CCC500	PP072765.D	09 Jun 2025 20:55		YP\AJ	Ok,M
36	AR1248CCC500	AR1248CCC500	PP072766.D	09 Jun 2025 21:11		YP\AJ	Ok,M
37	AR1254CCC500	AR1254CCC500	PP072767.D	09 Jun 2025 21:27		YP\AJ	Ok,M

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Instrument ID: ECD_P

Daily Analysis Runlog For Sequence/QCBatch ID # PP060925

Review By	yogesh	Review On	6/9/2025 11:28:27 AM		
Supervise By	mohammad	Supervise On	6/11/2025 2:15:29 AM		
SubDirectory	PP060925	HP Acquire Method		HP Processing Method	PP051925

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24330,PP24331,PP24332,PP24333,PP24334,PP24335,PP24336,PP24337,PP24338,PP24339,PP24340,PP24341,PP24342,PP24343,PP24344,PP24345,PP24346,PP24347,PP24348,PP24349,PP24350,PP24351,PP24352,PP24353,PP24354,PP24355,PP24356,PP24357,PP24358,PP24359,PP24360,PP24361,PP24362,PP24363,PP24364,PP24365,PP24366,PP24367,PP24368,PP24369
CCC	PP24332,PP24347,PP24352,PP24357
Internal Standard/PEM	
ICV/I.BLK	PP24370,PP24371,PP24372,PP24373,PP24374,PP24375,PP24376,PP24377,PP24378,PP24379,PP24380,PP24381,PP24382,PP24384,PP24385,PP24386,PP24387
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

38	AR1268CCC500	AR1268CCC500	PP072768.D	09 Jun 2025 21:44	DCB high in both column	YP\AJ	Ok,M
39	I.BLK	I.BLK	PP072769.D	09 Jun 2025 22:00		YP\AJ	Ok,M

M : Manual Integration

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EXTRACTION LOGPAGE

PB168288

SOP ID:	M3541-ASE Extraction-14				
Clean Up SOP #:	Acid Cleanup			**Extraction Start Date :**	06/04/2025
Matrix :	Solid			**Extraction Start Time :**	12:09
Weigh By:	EH	**Extraction By:**	RJ	**Extraction End Date :**	06/04/2025
Balance check:	EH	**Filter By:**	RJ	**Extraction End Time :**	15:20
Balance ID:	EX-SC-2	**pH Meter ID:**	N/A	**Concentration By:**	EH
pH Strip Lot#:	N/A	**Hood ID:**	3,7	**Supervisor By :**	RUPESH

Extraction Method: ☐ Seperatory Funnel ☐ Continious Liquid/Liquid ☐ Sonication ☐ Waste Dilution ☑ Soxhlet

Standared Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Spike Sol 1	1.0ML	5000 PPB	PP24461
Surrogate	1.0ML	200 PPB	PP24597
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
Hexane/Acetone/1:1	N/A	EP2613
Baked Na2SO4	N/A	EP2620
Sand	N/A	E2865
Hexane	N/A	E3938
H2SO4 1:1	N/A	EP2610
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

40ML Vial Lot # 03-40BTS723.

KD Bath ID:	N/A	**Envap ID:**	NEVAP-02
KD Bath Temperature:	N/A	**Envap Temperature:**	40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
6/4/25	RS (Ext lab)	Y Prep IP 4B.
15:25	**Preparation Group**	**Analysis Group**

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PrepBatch ID : PB168288

Analytical Method: M3541-ASE Extraction-14 **Concentration Date:** 06/04/2025

Sample ID	Client Sample ID	Test	g/mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB168288BL	ABLK288	PCB	30.02	N/A	ritesh	Evelyn	10			U1-1
PB168288BS	ALCS288	PCB	30.01	N/A	ritesh	Evelyn	10			2
Q2182-01	OR-03-06022025	PCB	30.09	N/A	ritesh	Evelyn	10	E		3
Q2192-01	SB-1	PCB	30.02	N/A	ritesh	Evelyn	10	B		4
Q2194-01	COMP-12	PCB	30.03	N/A	ritesh	Evelyn	10	D		5
Q2194-03	COMP-13	PCB	30.05	N/A	ritesh	Evelyn	10	D		6
Q2195-01	OK-01-060325	PCB	30.04	N/A	ritesh	Evelyn	10	E		U2-1
Q2195-01MS	OK-01-060325MS	PCB	30.08	N/A	ritesh	Evelyn	10	E		2
Q2195-01MSD	OK-01-060325MSD	PCB	30.06	N/A	ritesh	Evelyn	10	E		3
Q2198-01	B-202-SB02	PCB	30.02	N/A	ritesh	Evelyn	10	E		4
Q2198-03	~~B-207-SB01~~ B-207-SB02	PCB	30.05	N/A	ritesh	Evelyn	10	E		5
Q2199-01	ETGI-343	PCB	30.09	N/A	ritesh	Evelyn	10	E		6
Q2199-03	VNJ-231	PCB	30.07	N/A	ritesh	Evelyn	10	E		U3-1
Q2199-05	72-11978	PCB	30.08	N/A	ritesh	Evelyn	10	E		2

RS 6/11

RS 6/4

* **Extracts relinquished on the same date as received.**

Q2198 168288 12:09

WORKLIST(Hardcopy Internal Chain)

WorkList Name : Q2182 **WorkList ID :** 189932 **Department :** Extraction **Date :** 06-04-2025 11:37:42

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2182-01	OR-03-06022025	Solid	PCB	Cool 4 deg C	PSEG05	N11	06/02/2025	8082A
Q2192-01	SB-1	Solid	PCB	Cool 4 deg C	PSEG03	N31	06/03/2025	8082A
Q2194-01	COMP-12	Solid	PCB	Cool 4 deg C	PSEG03	L31	06/03/2025	8082A
Q2194-03	COMP-13	Solid	PCB	Cool 4 deg C	PSEG03	L31	06/03/2025	8082A
Q2195-01	OK-01-060325	Solid	PCB	Cool 4 deg C	PSEG05	L31	06/03/2025	8082A
Q2198-01	B-202-SB02	Solid	PCB	Cool 4 deg C	PORT06	N22	05/31/2025	8082A
Q2198-03	~~B-207-SB01~~ B-201-SB02	Solid	PCB	Cool 4 deg C	PORT06	N22	06/01/2025	8082A
Q2199-01	ETGI-343	Solid	PCB	Cool 4 deg C	PSEG03	N31	06/03/2025	8082A
Q2199-03	VNJ-231	Solid	PCB	Cool 4 deg C	PSEG03	N31	06/03/2025	8082A
Q2199-05	72-11978	Solid	PCB	Cool 4 deg C	PSEG03	N31	06/03/2025	8082A

RJ 6/11

780 of 1607

Date/Time 6/4/25 12:05
Raw Sample Received by: RJ (Ext-lab)
Raw Sample Relinquished by: Rm Sm

Date/Time 6/4/25 12:35
Raw Sample Received by: Rm Sm
Raw Sample Relinquished by: RJ (Ext-lab)

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PB168325

SOP ID:	M3510C,3580A-Extraction PCB-14				
Clean Up SOP #:	Acid Cleanup			**Extraction Start Date :**	06/06/2025
Matrix :	Water			**Extraction Start Time :**	09:14
Weigh By:	N/A	**Extraction By:**	RS	**Extraction End Date :**	06/06/2025
Balance check:	N/A	**Filter By:**	RS	**Extraction End Time :**	14:00
Balance ID:	N/A	**pH Meter ID:**	N/A	**Concentration By:**	EH
pH Strip Lot#:	E3880	**Hood ID:**	4,5,6,7	**Supervisor By :**	RUPESH

Extraction Method: ☑ Seperatory Funnel ☐ Continious Liquid/Liquid ☐ Sonication ☐ Waste Dilution ☐ Soxhlet

Standared Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Spike Sol 1	1.0ML	5000 PPB	PP24461
Surrogate	1.0ML	200 PPB	PP24597
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
Methylene Chloride	N/A	E3939
Baked Na2SO4	N/A	EP2620
Hexane	N/A	E3938
H2SO4 1:1	N/A	EP2610
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

40 ML Vial lot# 03-40BTS723, Q2218-03 & Q2221-03 used Limited volume as samples are oily, pH adjusted with acid Q2237-02.

KD Bath ID:	WATER BATH-1,2	**Envap ID:**	NEVAP-02
KD Bath Temperature:	60 °C	**Envap Temperature:**	40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
6/6/25	RS (Ext-Lab)	Pest/PCB Cnb
14:05	**Preparation Group**	**Analysis Group**

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PrepBatch ID : PB168325

Analytical Method: M3510C,3580A-Extraction PCB-14 **Concentration Date:** 06/06/2025

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB168325BL	ABLK325	PCB	1000	6	RUPESH	ritesh	10			SEP-1
PB168325BS	ALCS325	PCB	1000	6	RUPESH	ritesh	10			2
PB168325BSD	ALCSD325	PCB	1000	6	RUPESH	ritesh	10			3
Q2198-05	B-202-GW01	PCB	980	6	RUPESH	ritesh	10	F		4
Q2216-02	3887	PCB	1000	6	RUPESH	ritesh	10	E		5
Q2216-03	3888	PCB	990	6	RUPESH	ritesh	10	E		11
Q2216-04	3864	PCB	980	6	RUPESH	ritesh	10	E		7
Q2216-05	3865	PCB	990	6	RUPESH	ritesh	10	E		8
Q2216-06	3851	PCB	990	6	RUPESH	ritesh	10	E		9
Q2218-03	3309	PCB	100	6	RUPESH	ritesh	10	C	Oily	10
Q2221-02	34900	PCB	990	6	RUPESH	ritesh	10	D		11
Q2221-03	34867	PCB	100	6	RUPESH	ritesh	10	B	Oily	12
Q2237-02	TW-WTS-10	PCB	980	12	RUPESH	ritesh	10	G		13

6/6

* **Extracts relinquished on the same date as received.**

6/3/25 9:14

Q2198

WORKLIST(Hardcopy Internal Chain)

WorkList Name : Q2216 **WorkList ID :** 189995 **Department :** Extraction **Date :** 06-06-2025 09:09:50

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2198-05	B-202-GW01	Water	PCB	Cool 4 deg C	PORT06	N22	05/31/2025	8082A
Q2216-02	3887	Water	PCB	Cool 4 deg C	PSEG03	N31	06/04/2025	8082A
Q2216-03	3888	Water	PCB	Cool 4 deg C	PSEG03	N31	06/04/2025	8082A
Q2216-04	3864	Water	PCB	Cool 4 deg C	PSEG03	N31	06/04/2025	8082A
Q2216-05	3865	Water	PCB	Cool 4 deg C	PSEG03	N31	06/04/2025	8082A
Q2216-06	3851	Water	PCB	Cool 4 deg C	PSEG03	N31	06/04/2025	8082A
Q2218-03	3309	Water	PCB	Cool 4 deg C	PSEG03	N31	06/04/2025	8082A
Q2221-02	34900	Water	PCB	Cool 4 deg C	PSEG03	N41	06/04/2025	8082A
Q2221-03	34867	Water	PCB	Cool 4 deg C	PSEG03	N41	06/04/2025	8082A
Q2237-02	TW-WTS-10	Water	PCB	Cool 4 deg C	ENTA05	N31	06/04/2025	8082A

783 of 1607

Date/Time 6/6/25 9:10
Raw Sample Received by: RS (Ext-lab)
Raw Sample Relinquished by:

Date/Time 6/6/25 9:55
Raw Sample Received by:
Raw Sample Relinquished by: RS (Ext-lab)

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

LAB CHRONICLE

OrderID:	Q2198	**OrderDate:**	6/3/2025 2:31:00 PM
Client:	Portal Partners Tri-Venture	**Project:**	Amtrak Sawtooth Bridges 2025
Contact:	Joseph Krupansky	**Location:**	N22,VOA Ref. #2 Soil,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2198-01	**B-202-SB02**	**SOIL**			**05/31/25**			**06/03/25**
			PCB	8082A		06/04/25	06/04/25	
Q2198-02	**B-202-SB02**	**TCLP**			**05/31/25**			**06/03/25**
			TCLP Herbicide	8151A		06/06/25	06/09/25	
			TCLP Pesticide	8081B		06/06/25	06/09/25	
Q2198-03	**B-207-SB02**	**SOIL**			**06/01/25**			**06/03/25**
			PCB	8082A		06/04/25	06/04/25	
Q2198-04	**B-207-SB02**	**TCLP**			**06/01/25**			**06/03/25**
			TCLP Herbicide	8151A		06/06/25	06/09/25	
			TCLP Pesticide	8081B		06/06/25	06/09/25	
Q2198-05	**B-202-GW01**	**WATER**			**05/31/25**			**06/03/25**
			PCB	8082A		06/06/25	06/06/25	

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Fax : 908 789 8922

Hit Summary Sheet
SW-846

SDG No.: Q2198 **Order ID:** Q2198

Client: Portal Partners Tri-Venture **Project ID:** Amtrak Sawtooth Bridges 2025

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units

Client ID :

Total Concentration: 0.000

SAMPLE DATA

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	06/06/25
Client Sample ID:	PB168271TB	SDG No.:	Q2198
Lab Sample ID:	PB168271TB	Matrix:	TCLP
Analytical Method:	8081B	% Solid:	0 Decanted:
Sample Wt/Vol:	100 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	TCLP Pesticide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD088834.D	1	06/06/25 12:32	06/09/25 13:44	PB168330

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
58-89-9	gamma-BHC (Lindane)	0.037	U	0.037	0.50	ug/L
76-44-8	Heptachlor	0.027	U	0.027	0.50	ug/L
1024-57-3	Heptachlor epoxide	0.096	U	0.096	0.50	ug/L
72-20-8	Endrin	0.032	U	0.032	0.50	ug/L
72-43-5	Methoxychlor	0.11	U	0.11	0.50	ug/L
8001-35-2	Toxaphene	1.70	U	1.70	10.0	ug/L
57-74-9	Chlordane	0.88	U	0.88	5.00	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	25.4		30 (57) - 150 (171)	127%	SPK: 20
877-09-8	Tetrachloro-m-xylene	23.6		30 (61) - 150 (148)	118%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

Alliance TECHNICAL GROUP
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Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	05/31/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	06/03/25
Client Sample ID:	B-202-SB02	SDG No.:	Q2198
Lab Sample ID:	Q2198-02	Matrix:	TCLP
Analytical Method:	8081B	% Solid:	0 Decanted:
Sample Wt/Vol:	100 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	TCLP Pesticide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD088836.D	1	06/06/25 12:32	06/09/25 14:11	PB168330

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
58-89-9	gamma-BHC (Lindane)	0.037	U	0.037	0.50	ug/L
76-44-8	Heptachlor	0.027	U	0.027	0.50	ug/L
1024-57-3	Heptachlor epoxide	0.096	U	0.096	0.50	ug/L
72-20-8	Endrin	0.032	U	0.032	0.50	ug/L
72-43-5	Methoxychlor	0.11	U	0.11	0.50	ug/L
8001-35-2	Toxaphene	1.70	U	1.70	10.0	ug/L
57-74-9	Chlordane	0.88	U	0.88	5.00	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	23.5		30 (57) - 150 (171)	118%	SPK: 20
877-09-8	Tetrachloro-m-xylene	23.4		30 (61) - 150 (148)	117%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	06/01/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	06/03/25
Client Sample ID:	B-207-SB02	SDG No.:	Q2198
Lab Sample ID:	Q2198-04	Matrix:	TCLP
Analytical Method:	8081B	% Solid:	0 Decanted:
Sample Wt/Vol:	100 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	TCLP Pesticide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD088837.D	1	06/06/25 12:32	06/09/25 14:25	PB168330

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
58-89-9	gamma-BHC (Lindane)	0.037	U	0.037	0.50	ug/L
76-44-8	Heptachlor	0.027	U	0.027	0.50	ug/L
1024-57-3	Heptachlor epoxide	0.096	U	0.096	0.50	ug/L
72-20-8	Endrin	0.032	U	0.032	0.50	ug/L
72-43-5	Methoxychlor	0.11	U	0.11	0.50	ug/L
8001-35-2	Toxaphene	1.70	U	1.70	10.0	ug/L
57-74-9	Chlordane	0.88	U	0.88	5.00	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	25.2		30 (57) - 150 (171)	126%	SPK: 20
877-09-8	Tetrachloro-m-xylene	23.1		30 (61) - 150 (148)	115%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

QC SUMMARY

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Surrogate Summary

SDG No.: Q2198

Client: Portal Partners Tri-Venture

Analytical Method: 8081B

Lab Sample ID	Client ID	Parameter	Column	Spike	Result	Rec	Qual	Limits Low	Limits High
I.BLK-PD088583.D	PIBLK-PD088583.D	Decachlorobiphenyl	1	20	18.4	92		30 (57)	150 (171)
		Tetrachloro-m-xylene	1	20	16.5	83		30 (61)	150 (148)
		Decachlorobiphenyl	2	20	18.0	90		30 (57)	150 (171)
		Tetrachloro-m-xylene	2	20	16.9	84		30 (61)	150 (148)
I.BLK-PD088820.D	PIBLK-PD088820.D	Decachlorobiphenyl	1	20	24.1	120		30 (57)	150 (171)
		Tetrachloro-m-xylene	1	20	23.7	119		30 (61)	150 (148)
		Decachlorobiphenyl	2	20	23.0	115		30 (57)	150 (171)
		Tetrachloro-m-xylene	2	20	21.4	107		30 (61)	150 (148)
PB168330BL	PB168330BL	Decachlorobiphenyl	1	20	25.8	129		30 (57)	150 (171)
		Tetrachloro-m-xylene	1	20	24.1	121		30 (61)	150 (148)
		Decachlorobiphenyl	2	20	24.4	122		30 (57)	150 (171)
		Tetrachloro-m-xylene	2	20	21.8	109		30 (61)	150 (148)
PB168330BS	PB168330BS	Decachlorobiphenyl	1	20	23.8	119		30 (57)	150 (171)
		Tetrachloro-m-xylene	1	20	22.0	110		30 (61)	150 (148)
		Decachlorobiphenyl	2	20	22.9	115		30 (57)	150 (171)
		Tetrachloro-m-xylene	2	20	20.4	102		30 (61)	150 (148)
PB168271TB	PB168271TB	Decachlorobiphenyl	1	20	25.4	127		30 (57)	150 (171)
		Tetrachloro-m-xylene	1	20	23.6	118		30 (61)	150 (148)
		Decachlorobiphenyl	2	20	24.2	121		30 (57)	150 (171)
		Tetrachloro-m-xylene	2	20	21.6	108		30 (61)	150 (148)
Q2198-02	B-202-SB02	Decachlorobiphenyl	1	20	23.5	118		30 (57)	150 (171)
		Tetrachloro-m-xylene	1	20	23.4	117		30 (61)	150 (148)
		Decachlorobiphenyl	2	20	22.5	113		30 (57)	150 (171)
		Tetrachloro-m-xylene	2	20	20.4	102		30 (61)	150 (148)
Q2198-04	B-207-SB02	Decachlorobiphenyl	1	20	25.2	126		30 (57)	150 (171)
		Tetrachloro-m-xylene	1	20	23.1	115		30 (61)	150 (148)
		Decachlorobiphenyl	2	20	24.1	120		30 (57)	150 (171)
		Tetrachloro-m-xylene	2	20	20.3	102		30 (61)	150 (148)
Q2198-04MS	B-207-SB02MS	Decachlorobiphenyl	1	20	25.9	129		30 (57)	150 (171)
		Tetrachloro-m-xylene	1	20	24.2	121		30 (61)	150 (148)
		Decachlorobiphenyl	2	20	24.8	124		30 (57)	150 (171)
		Tetrachloro-m-xylene	2	20	21.1	105		30 (61)	150 (148)
Q2198-04MSD	B-207-SB02MSD	Decachlorobiphenyl	1	20	26.1	131		30 (57)	150 (171)
		Tetrachloro-m-xylene	1	20	24.3	122		30 (61)	150 (148)
		Decachlorobiphenyl	2	20	24.9	124		30 (57)	150 (171)
		Tetrachloro-m-xylene	2	20	21.3	106		30 (61)	150 (148)
I.BLK-PD088840.D	PIBLK-PD088840.D	Decachlorobiphenyl	1	20	24.7	123		30 (57)	150 (171)
		Tetrachloro-m-xylene	1	20	23.3	117		30 (61)	150 (148)
		Decachlorobiphenyl	2	20	23.7	118		30 (57)	150 (171)
		Tetrachloro-m-xylene	2	20	20.8	104		30 (61)	150 (148)

( ) = LABORATORY INHOUSE LIMIT

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q2198 **Analytical Method:** 8081B

Client: Portal Partners Tri-Venture **DataFile :** PD088838.D

Lab Sample ID:	Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	Limits RPD
Client Sample ID:	**B-207-SB02MS**											
Q2198-04MS (Column 1)	gamma-BHC (Lindane)	5	0	6.30	ug/L	126				30 (60)	150 (152)	
	Heptachlor	5	0	5.40	ug/L	108				30 (56)	150 (147)	
	Heptachlor epoxide	5	0	6.10	ug/L	122				30 (77)	150 (143)	
	Endrin	5	0	6.30	ug/L	126				30 (76)	150 (144)	
	Methoxychlor	5	0	6.20	ug/L	124				30 (70)	150 (142)	
Client Sample ID:	**B-207-SB02MS**											
Q2198-04MS (Column 2)	gamma-BHC (Lindane)	5	0	5.40	ug/L	108				30 (60)	150 (152)	
	Heptachlor	5	0	4.70	ug/L	94				30 (56)	150 (147)	
	Heptachlor epoxide	5	0	5.40	ug/L	108				30 (77)	150 (143)	
	Endrin	5	0	5.50	ug/L	110				30 (76)	150 (144)	
	Methoxychlor	5	0	5.50	ug/L	110				30 (70)	150 (142)	

( ) = LABORATORY INHOUSE LIMIT

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Fax : 908 789 8922

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q2198 **Analytical Method:** 8081B

Client: Portal Partners Tri-Venture **DataFile :** PD088839.D

Lab Sample ID:	Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	Limits RPD
Client Sample ID:	**B-207-SB02MSD**											
Q2198-04MSD (Column 1)	gamma-BHC (Lindane)	5	0	6.40	ug/L	128		2		30 (60)	150 (152)	20 (20)
	Heptachlor	5	0	5.40	ug/L	108		0		30 (56)	150 (147)	20 (20)
	Heptachlor epoxide	5	0	6.10	ug/L	122		0		30 (77)	150 (143)	20 (20)
	Endrin	5	0	6.30	ug/L	126		0		30 (76)	150 (144)	20 (20)
	Methoxychlor	5	0	6.20	ug/L	124		0		30 (70)	150 (142)	20 (20)
Client Sample ID:	**B-207-SB02MSD**											
Q2198-04MSD (Column 2)	gamma-BHC (Lindane)	5	0	5.50	ug/L	110		2		30 (60)	150 (152)	20 (20)
	Heptachlor	5	0	4.70	ug/L	94		0		30 (56)	150 (147)	20 (20)
	Heptachlor epoxide	5	0	5.40	ug/L	108		0		30 (77)	150 (143)	20 (20)
	Endrin	5	0	5.80	ug/L	116		5		30 (76)	150 (144)	20 (20)
	Methoxychlor	5	0	5.50	ug/L	110		0		30 (70)	150 (142)	20 (20)

( ) = LABORATORY INHOUSE LIMIT

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2198 **Analytical Method:** 8081B

Client: Portal Partners Tri-Venture **Datafile :** PD088833.D

Lab Sample ID	Parameter	Spike	Result	Units	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB168330BS (Column 1)	gamma-BHC (Lindane)	0.5	0.53	ug/L	105				40 (82)	140 (129)	
	Heptachlor	0.5	0.54	ug/L	108				40 (79)	140 (127)	
	Heptachlor epoxide	0.5	0.53	ug/L	106				40 (81)	140 (124)	
	Endrin	0.5	0.54	ug/L	107				40 (81)	140 (128)	
	Methoxychlor	0.5	0.54	ug/L	107				40 (78)	140 (108)	
PB168330BS (Column 2)	gamma-BHC (Lindane)	0.5	0.49	ug/L	98				40 (82)	140 (129)	
	Heptachlor	0.5	0.48	ug/L	97				40 (79)	140 (127)	
	Heptachlor epoxide	0.5	0.49	ug/L	98				40 (81)	140 (124)	
	Endrin	0.5	0.48	ug/L	97				40 (81)	140 (128)	
	Methoxychlor	0.5	0.49	ug/L	97				40 (78)	140 (108)	

( ) = LABORATORY INHOUSE LIMIT

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4C

PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB168330BL

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q2198 SAS No.: Q2198 SDG NO.: Q2198

Lab Sample ID: PB168330BL Lab File ID: PD088832.D

Matrix: (soil/water) water Extraction: (Type) SEPF

Sulfur Cleanup: (Y/N) N Date Extracted: 06/06/2025

Date Analyzed (1): 06/09/2025 Date Analyzed (2): 06/09/2025

Time Analyzed (1): 13:14 Time Analyzed (2): 13:14

Instrument ID (1): ECD_D Instrument ID (2): ECD_D

GC Column (1): ZB-MR1 ID: 0.32 (mm) GC Column (2): ZB-MR2 ID: 0.32 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED 1	DATE ANALYZED 2
PB168330BS	PB168330BS	PD088833.D	06/09/2025	06/09/2025
PB168271TB	PB168271TB	PD088834.D	06/09/2025	06/09/2025
B-202-SB02	Q2198-02	PD088836.D	06/09/2025	06/09/2025
B-207-SB02	Q2198-04	PD088837.D	06/09/2025	06/09/2025
B-207-SB02MS	Q2198-04MS	PD088838.D	06/09/2025	06/09/2025
B-207-SB02MSD	Q2198-04MSD	PD088839.D	06/09/2025	06/09/2025

COMMENTS:

QC SAMPLE DATA

Alliance TECHNICAL GROUP
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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB168330BL	SDG No.:	Q2198
Lab Sample ID:	PB168330BL	Matrix:	TCLP
Analytical Method:	8081B	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	TCLP Pesticide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD088832.D	1	06/06/25 12:32	06/09/25 13:14	PB168330

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
58-89-9	gamma-BHC (Lindane)	0.0037	U	0.0037	0.050	ug/L
76-44-8	Heptachlor	0.0027	U	0.0027	0.050	ug/L
1024-57-3	Heptachlor epoxide	0.0096	U	0.0096	0.050	ug/L
72-20-8	Endrin	0.0032	U	0.0032	0.050	ug/L
72-43-5	Methoxychlor	0.011	U	0.011	0.050	ug/L
8001-35-2	Toxaphene	0.17	U	0.17	1.00	ug/L
57-74-9	Chlordane	0.088	U	0.088	0.50	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	25.8		30 (57) - 150 (171)	129%	SPK: 20
877-09-8	Tetrachloro-m-xylene	24.1		30 (61) - 150 (148)	121%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	05/19/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	05/19/25
Client Sample ID:	PIBLK-PD088583.D	SDG No.:	Q2198
Lab Sample ID:	I.BLK-PD088583.D	Matrix:	TCLP
Analytical Method:	8081B	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	TCLP Pesticide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD088583.D	1		05/19/25	PD051925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
58-89-9	gamma-BHC (Lindane)	0.0037	U	0.0037	0.050	ug/L
76-44-8	Heptachlor	0.0027	U	0.0027	0.050	ug/L
1024-57-3	Heptachlor epoxide	0.0096	U	0.0096	0.050	ug/L
72-20-8	Endrin	0.0032	U	0.0032	0.050	ug/L
72-43-5	Methoxychlor	0.011	U	0.011	0.050	ug/L
8001-35-2	Toxaphene	0.17	U	0.17	1.00	ug/L
57-74-9	Chlordane	0.088	U	0.088	0.50	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	18.4		30 (57) - 150 (171)	92%	SPK: 20
877-09-8	Tetrachloro-m-xylene	16.9		30 (61) - 150 (148)	84%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
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M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

Alliance TECHNICAL GROUP
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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	06/09/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	06/09/25
Client Sample ID:	PIBLK-PD088820.D	SDG No.:	Q2198
Lab Sample ID:	I.BLK-PD088820.D	Matrix:	TCLP
Analytical Method:	8081B	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	TCLP Pesticide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD088820.D	1		06/09/25	Pd060925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
58-89-9	gamma-BHC (Lindane)	0.0037	U	0.0037	0.050	ug/L
76-44-8	Heptachlor	0.0027	U	0.0027	0.050	ug/L
1024-57-3	Heptachlor epoxide	0.0096	U	0.0096	0.050	ug/L
72-20-8	Endrin	0.0032	U	0.0032	0.050	ug/L
72-43-5	Methoxychlor	0.011	U	0.011	0.050	ug/L
8001-35-2	Toxaphene	0.17	U	0.17	1.00	ug/L
57-74-9	Chlordane	0.088	U	0.088	0.50	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	24.1		30 (57) - 150 (171)	120%	SPK: 20
877-09-8	Tetrachloro-m-xylene	23.7		30 (61) - 150 (148)	119%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	06/09/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	06/09/25
Client Sample ID:	PIBLK-PD088840.D	SDG No.:	Q2198
Lab Sample ID:	I.BLK-PD088840.D	Matrix:	TCLP
Analytical Method:	8081B	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	TCLP Pesticide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD088840.D	1		06/09/25	pd060925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
58-89-9	gamma-BHC (Lindane)	0.0037	U	0.0037	0.050	ug/L
76-44-8	Heptachlor	0.0027	U	0.0027	0.050	ug/L
1024-57-3	Heptachlor epoxide	0.0096	U	0.0096	0.050	ug/L
72-20-8	Endrin	0.0032	U	0.0032	0.050	ug/L
72-43-5	Methoxychlor	0.011	U	0.011	0.050	ug/L
8001-35-2	Toxaphene	0.17	U	0.17	1.00	ug/L
57-74-9	Chlordane	0.088	U	0.088	0.50	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	24.7		30 (57) - 150 (171)	123%	SPK: 20
877-09-8	Tetrachloro-m-xylene	23.3		30 (61) - 150 (148)	117%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

Alliance TECHNICAL GROUP
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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB168330BS	SDG No.:	Q2198
Lab Sample ID:	PB168330BS	Matrix:	TCLP
Analytical Method:	8081B	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	TCLP Pesticide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD088833.D	1	06/06/25 12:32	06/09/25 13:28	PB168330

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
58-89-9	gamma-BHC (Lindane)	0.53		0.0037	0.050	ug/L
76-44-8	Heptachlor	0.54		0.0027	0.050	ug/L
1024-57-3	Heptachlor epoxide	0.53		0.0096	0.050	ug/L
72-20-8	Endrin	0.54		0.0032	0.050	ug/L
72-43-5	Methoxychlor	0.54		0.011	0.050	ug/L
8001-35-2	Toxaphene	0.17	U	0.17	1.00	ug/L
57-74-9	Chlordane	0.088	U	0.088	0.50	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	23.8		30 (57) - 150 (171)	119%	SPK: 20
877-09-8	Tetrachloro-m-xylene	22.0		30 (61) - 150 (148)	110%	SPK: 20

Comments:

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LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

Alliance TECHNICAL GROUP
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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	06/01/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	06/03/25
Client Sample ID:	B-207-SB02MS	SDG No.:	Q2198
Lab Sample ID:	Q2198-04MS	Matrix:	TCLP
Analytical Method:	8081B	% Solid:	0 Decanted:
Sample Wt/Vol:	100 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	TCLP Pesticide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD088838.D	1	06/06/25 12:32	06/09/25 14:39	PB168330

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
58-89-9	gamma-BHC (Lindane)	6.30		0.037	0.50	ug/L
76-44-8	Heptachlor	5.40		0.027	0.50	ug/L
1024-57-3	Heptachlor epoxide	6.10		0.096	0.50	ug/L
72-20-8	Endrin	6.30		0.032	0.50	ug/L
72-43-5	Methoxychlor	6.20		0.11	0.50	ug/L
8001-35-2	Toxaphene	1.70	U	1.70	10.0	ug/L
57-74-9	Chlordane	0.88	U	0.88	5.00	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	25.9		30 (57) - 150 (171)	129%	SPK: 20
877-09-8	Tetrachloro-m-xylene	24.2		30 (61) - 150 (148)	121%	SPK: 20

Comments:

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LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
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P = Indicates >25% difference for detected concentrations between the two GC columns
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M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
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() = Laboratory InHouse Limit

Alliance TECHNICAL GROUP
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Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	06/01/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	06/03/25
Client Sample ID:	B-207-SB02MSD	SDG No.:	Q2198
Lab Sample ID:	Q2198-04MSD	Matrix:	TCLP
Analytical Method:	8081B	% Solid:	0 Decanted:
Sample Wt/Vol:	100 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	TCLP Pesticide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD088839.D	1	06/06/25 12:32	06/09/25 14:53	PB168330

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
58-89-9	gamma-BHC (Lindane)	6.40		0.037	0.50	ug/L
76-44-8	Heptachlor	5.40		0.027	0.50	ug/L
1024-57-3	Heptachlor epoxide	6.10		0.096	0.50	ug/L
72-20-8	Endrin	6.30		0.032	0.50	ug/L
72-43-5	Methoxychlor	6.20		0.11	0.50	ug/L
8001-35-2	Toxaphene	1.70	U	1.70	10.0	ug/L
57-74-9	Chlordane	0.88	U	0.88	5.00	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	26.1		30 (57) - 150 (171)	131%	SPK: 20
877-09-8	Tetrachloro-m-xylene	24.3		30 (61) - 150 (148)	122%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

CALIBRATION SUMMARY

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

RETENTION TIMES OF INITIAL CALIBRATION

Contract: PORT06

Lab Code: CHEM **Case No.:** Q2198 **SAS No.:** Q2198 **SDG NO.:** Q2198

Instrument ID: ECD_D **Calibration Date(s):** 05/19/2025 05/19/2025

Calibration Times: 11:31 12:25

GC Column: ZB-MR1 ID: 0.32 (mm)

LAB FILE ID: RT 100 = PD088586.D RT 075 = PD088587.D

RT 050 = PD088588.D RT 025 = PD088589.D RT 005 = PD088590.D

COMPOUND	RT 100	RT 075	RT 050	RT 025	RT 005	MEAN RT	RT WINDOW FROM	RT WINDOW TO
Decachlorobiphenyl	9.08	9.08	9.08	9.08	9.08	9.08	8.98	9.18
Endrin	6.58	6.58	6.58	6.58	6.58	6.58	6.48	6.68
gamma-BHC (Lindane)	4.33	4.33	4.33	4.33	4.33	4.33	4.23	4.43
Heptachlor	4.93	4.93	4.93	4.93	4.93	4.93	4.83	5.03
Heptachlor epoxide	5.69	5.69	5.69	5.69	5.69	5.69	5.59	5.79
Methoxychlor	7.50	7.50	7.50	7.50	7.50	7.50	7.40	7.60
Tetrachloro-m-xylene	3.55	3.55	3.55	3.55	3.55	3.55	3.45	3.65

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RETENTION TIMES OF INITIAL CALIBRATION

Contract: PORT06

Lab Code: CHEM **Case No.:** Q2198 **SAS No.:** Q2198 **SDG NO.:** Q2198

Instrument ID: ECD_D **Calibration Date(s):** 05/19/2025 05/19/2025

Calibration Times: 11:31 12:25

GC Column: ZB-MR2 ID: 0.32 (mm)

LAB FILE ID: RT 100 = PD088586.D RT 075 = PD088587.D

RT 050 = PD088588.D RT 025 = PD088589.D RT 005 = PD088590.D

COMPOUND	RT 100	RT 075	RT 050	RT 025	RT 005	MEAN RT	RT WINDOW FROM	RT WINDOW TO
Decachlorobiphenyl	8.08	8.08	8.08	8.08	8.08	8.08	7.98	8.18
Endrin	5.79	5.79	5.79	5.79	5.79	5.79	5.69	5.89
gamma-BHC (Lindane)	3.73	3.73	3.73	3.73	3.73	3.73	3.63	3.83
Heptachlor	4.09	4.08	4.09	4.09	4.08	4.08	3.98	4.18
Heptachlor epoxide	4.88	4.88	4.88	4.88	4.87	4.87	4.77	4.97
Methoxychlor	6.76	6.76	6.76	6.76	6.76	6.76	6.66	6.86
Tetrachloro-m-xylene	2.88	2.88	2.88	2.88	2.88	2.88	2.78	2.98

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CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: PORT06

Lab Code: CHEM **Case No.:** Q2198 **SAS No.:** Q2198 **SDG NO.:** Q2198

Instrument ID: ECD_D **Calibration Date(s):** 05/19/2025 05/19/2025

Calibration Times: 11:31 12:25

GC Column: ZB-MR1 **ID:** 0.32 **(mm)**

LAB FILE ID: **CF 100 =** PD088586.D **CF 075 =** PD088587.D

CF 050 = PD088588.D **CF 025 =** PD088589.D **CF 005 =** PD088590.D

COMPOUND	CF 100	CF 075	CF 050	CF 025	CF 005	CF	% RSD
Decachlorobiphenyl	3171750000	3154190000	3328750000	3504210000	3952750000	3422330000	10
Endrin	3544350000	3400630000	3391880000	3322590000	3416420000	3415180000	2
gamma-BHC (Lindane)	4951240000	4675430000	4617130000	4438320000	4331460000	4602720000	5
Heptachlor	4681230000	4453430000	4445350000	4335710000	4440380000	4471220000	3
Heptachlor epoxide	4018350000	3865780000	3896760000	3892850000	4172720000	3969290000	3
Methoxychlor	1605530000	1584480000	1642420000	1697880000	1822460000	1670550000	6
Tetrachloro-m-xylene	2149340000	2072320000	2122010000	2161140000	2313950000	2163750000	4

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CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: PORT06

Lab Code: CHEM **Case No.:** Q2198 **SAS No.:** Q2198 **SDG NO.:** Q2198

Instrument ID: ECD_D **Calibration Date(s):** 05/19/2025 05/19/2025

Calibration Times: 11:31 12:25

GC Column: ZB-MR2 **ID:** 0.32 **(mm)**

LAB FILE ID: **CF 100 =** PD088586.D **CF 075 =** PD088587.D

CF 050 = PD088588.D **CF 025 =** PD088589.D **CF 005 =** PD088590.D

COMPOUND	CF 100	CF 075	CF 050	CF 025	CF 005	CF	% RSD
Decachlorobiphenyl	16504300000	16618500000	17317300000	18707400000	22133900000	18256300000	13
Endrin	17557800000	17708400000	18459500000	19851800000	22842600000	19284000000	11
gamma-BHC (Lindane)	21035300000	20781600000	21450400000	22534500000	25026800000	22165700000	8
Heptachlor	20762900000	20801500000	21647900000	23011300000	26050900000	22454900000	10
Heptachlor epoxide	18126800000	18251100000	19076900000	20442600000	23459100000	19871300000	11
Methoxychlor	8571980000	8801040000	9285240000	10058400000	11157300000	9574790000	11
Tetrachloro-m-xylene	14104900000	13970700000	14552300000	15457700000	17548700000	15126900000	10

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INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Contract: PORT06

Lab Code: CHEM **Case No.:** Q2198 **SAS No.:** Q2198 **SDG NO.:** Q2198

Instrument ID: ECD_D **Date(s) Analyzed:** 05/19/2025 05/19/2025

GC Column: ZB-MR1 **ID:** 0.32 (mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR
Chlordane	500	1	4.72	4.62	4.82	175277000
		2	5.24	5.14	5.34	179454000
		3	5.95	5.85	6.05	741371000
		4	6.03	5.93	6.13	889415000
		5	6.87	6.77	6.97	150936000
Toxaphene	500	1	6.24	6.14	6.34	26389700
		2	6.44	6.34	6.54	38119600
		3	7.15	7.05	7.25	72288300
		4	7.57	7.47	7.67	91412700
		5	7.93	7.83	8.03	52259600

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INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Contract: PORT06

Lab Code: CHEM **Case No.:** Q2198 **SAS No.:** Q2198 **SDG NO.:** Q2198

Instrument ID: ECD_D **Date(s) Analyzed:** 05/19/2025 05/19/2025

GC Column: ZB-MR2 **ID:** 0.32 (mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR
Chlordane	500	1	3.91	3.81	4.01	813076000
		2	4.49	4.39	4.59	822692000
		3	5.13	5.03	5.23	2571520000
		4	5.19	5.09	5.29	2143050000
		5	6.09	5.99	6.19	983052000
Toxaphene	500	1	5.48	5.38	5.58	139231000
		2	5.65	5.55	5.75	94078800
		3	6.76	6.66	6.86	437083000
		4	7.20	7.10	7.30	311285000
		5	7.33	7.23	7.43	216975000

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q2198 **SAS No.:** Q2198 **SDG NO.:** Q2198

Continuing Calib Date: 06/09/2025 **Initial Calibration Date(s):** 05/19/2025 05/19/2025

Continuing Calib Time: 10:44 **Initial Calibration Time(s):** 11:31 12:25

GC Column: ZB-MR1 **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Decachlorobiphenyl	9.07	9.08	8.98	9.18	0.01
Tetrachloro-m-xylene	3.55	3.55	3.45	3.65	0.00
gamma-BHC (Lindane)	4.33	4.33	4.23	4.43	0.00
Heptachlor	4.93	4.93	4.83	5.03	0.00
Heptachlor epoxide	5.69	5.69	5.59	5.79	0.00
Endrin	6.58	6.58	6.48	6.68	0.01
Methoxychlor	7.49	7.50	7.40	7.60	0.01

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q2198 **SAS No.:** Q2198 **SDG NO.:** Q2198

Continuing Calib Date: 06/09/2025 **Initial Calibration Date(s):** 05/19/2025 05/19/2025

Continuing Calib Time: 10:44 **Initial Calibration Time(s):** 11:31 12:25

GC Column: ZB-MR2 **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Decachlorobiphenyl	8.07	8.08	7.98	8.18	0.01
Tetrachloro-m-xylene	2.88	2.88	2.78	2.98	0.00
gamma-BHC (Lindane)	3.73	3.73	3.63	3.83	0.00
Heptachlor	4.08	4.09	3.99	4.19	0.01
Heptachlor epoxide	4.87	4.88	4.78	4.98	0.01
Endrin	5.79	5.79	5.69	5.89	0.00
Methoxychlor	6.75	6.76	6.66	6.86	0.01

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q2198 **SAS No.:** Q2198 **SDG NO.:** Q2198

GC Column: ZB-MR1 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 05/19/2025 05/19/2025

Client Sample No.: CCAL01 **Date Analyzed:** 06/09/2025

Lab Sample No.: PSTDCCC050 **Data File :** PD088822.D **Time Analyzed:** 10:44

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	9.073	8.977	9.177	52.790	50.000	5.6
Endrin	6.575	6.477	6.677	54.680	50.000	9.4
gamma-BHC (Lindane)	4.330	4.232	4.432	54.180	50.000	8.4
Heptachlor	4.929	4.832	5.032	55.030	50.000	10.1
Heptachlor epoxide	5.691	5.593	5.793	53.970	50.000	7.9
Methoxychlor	7.494	7.395	7.595	54.010	50.000	8.0
Tetrachloro-m-xylene	3.549	3.451	3.651	57.870	50.000	15.7

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q2198 **SAS No.:** Q2198 **SDG NO.:** Q2198

GC Column: ZB-MR2 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 05/19/2025 05/19/2025

Client Sample No.: CCAL01 **Date Analyzed:** 06/09/2025

Lab Sample No.: PSTDCCC050 **Data File :** PD088822.D **Time Analyzed:** 10:44

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	8.072	7.977	8.177	48.910	50.000	-2.2
Endrin	5.789	5.692	5.892	46.190	50.000	-7.6
gamma-BHC (Lindane)	3.728	3.631	3.831	47.180	50.000	-5.6
Heptachlor	4.082	3.985	4.185	46.540	50.000	-6.9
Heptachlor epoxide	4.872	4.775	4.975	46.860	50.000	-6.3
Methoxychlor	6.754	6.658	6.858	45.820	50.000	-8.4
Tetrachloro-m-xylene	2.879	2.782	2.982	47.210	50.000	-5.6

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q2198 **SAS No.:** Q2198 **SDG NO.:** Q2198

Continuing Calib Date: 06/09/2025 **Initial Calibration Date(s):** 05/19/2025 05/19/2025

Continuing Calib Time: 15:44 **Initial Calibration Time(s):** 11:31 12:25

GC Column: ZB-MR1 **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Decachlorobiphenyl	9.07	9.08	8.98	9.18	0.01
Tetrachloro-m-xylene	3.55	3.55	3.45	3.65	0.00
gamma-BHC (Lindane)	4.33	4.33	4.23	4.43	0.00
Heptachlor	4.93	4.93	4.83	5.03	0.00
Heptachlor epoxide	5.69	5.69	5.59	5.79	0.00
Endrin	6.57	6.58	6.48	6.68	0.01
Methoxychlor	7.49	7.50	7.40	7.60	0.01

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q2198 **SAS No.:** Q2198 **SDG NO.:** Q2198

Continuing Calib Date: 06/09/2025 **Initial Calibration Date(s):** 05/19/2025 05/19/2025

Continuing Calib Time: 15:44 **Initial Calibration Time(s):** 11:31 12:25

GC Column: ZB-MR2 **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Decachlorobiphenyl	8.07	8.08	7.98	8.18	0.01
Tetrachloro-m-xylene	2.88	2.88	2.78	2.98	0.00
gamma-BHC (Lindane)	3.73	3.73	3.63	3.83	0.00
Heptachlor	4.08	4.09	3.99	4.19	0.01
Heptachlor epoxide	4.87	4.88	4.78	4.98	0.01
Endrin	5.79	5.79	5.69	5.89	0.00
Methoxychlor	6.75	6.76	6.66	6.86	0.01

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q2198 **SAS No.:** Q2198 **SDG NO.:** Q2198

GC Column: ZB-MR1 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 05/19/2025 05/19/2025

Client Sample No.: CCAL02 **Date Analyzed:** 06/09/2025

Lab Sample No.: PSTDCCC050 **Data File :** PD088841.D **Time Analyzed:** 15:44

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	9.074	8.977	9.177	52.910	50.000	5.8
Endrin	6.574	6.477	6.677	54.770	50.000	9.5
gamma-BHC (Lindane)	4.329	4.232	4.432	54.420	50.000	8.8
Heptachlor	4.929	4.832	5.032	54.980	50.000	10.0
Heptachlor epoxide	5.690	5.593	5.793	54.130	50.000	8.3
Methoxychlor	7.494	7.395	7.595	53.630	50.000	7.3
Tetrachloro-m-xylene	3.549	3.451	3.651	58.230	50.000	16.5

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q2198 **SAS No.:** Q2198 **SDG NO.:** Q2198

GC Column: ZB-MR2 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 05/19/2025 05/19/2025

Client Sample No.: CCAL02 **Date Analyzed:** 06/09/2025

Lab Sample No.: PSTDCCC050 **Data File :** PD088841.D **Time Analyzed:** 15:44

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	8.072	7.977	8.177	50.760	50.000	1.5
Endrin	5.789	5.692	5.892	48.240	50.000	-3.5
gamma-BHC (Lindane)	3.729	3.631	3.831	48.620	50.000	-2.8
Heptachlor	4.082	3.985	4.185	48.030	50.000	-3.9
Heptachlor epoxide	4.872	4.775	4.975	47.980	50.000	-4.0
Methoxychlor	6.754	6.658	6.858	48.510	50.000	-3.0
Tetrachloro-m-xylene	2.879	2.782	2.982	48.610	50.000	-2.8

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PESTICIDE CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q2198 **SAS No.:** Q2198 **SDG NO.:** Q2198

GC Column: ZB-MR1 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 05/19/2025 05/19/2025

Client Sample No. (PEM): PEM - PD088584.D **Date Analyzed:** 05/19/2025

Lab Sample No.(PEM): PEM **Time Analyzed:** 11:04

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	9.076	8.980	9.180	21.510	20.000	7.6
Tetrachloro-m-xylene	3.550	3.500	3.600	19.960	20.000	-0.2
alpha-BHC	3.999	3.950	4.050	9.120	10.000	-8.8
beta-BHC	4.516	4.470	4.570	10.260	10.000	2.6
gamma-BHC (Lindane)	4.331	4.280	4.380	9.460	10.000	-5.4
Endrin	6.576	6.510	6.650	50.860	50.000	1.7
4,4'-DDT	7.023	6.950	7.090	101.210	100.000	1.2
Methoxychlor	7.495	7.420	7.570	234.710	250.000	-6.1

GC Column: ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 05/19/2025 05/19/2025

Client Sample No. (PEM): PEM - PD088584.D **Date Analyzed:** 05/19/2025

Lab Sample No.(PEM): PEM **Time Analyzed:** 11:04

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	8.076	7.980	8.180	20.960	20.000	4.8
Tetrachloro-m-xylene	2.881	2.830	2.930	20.340	20.000	1.7
alpha-BHC	3.394	3.340	3.440	10.570	10.000	5.7
beta-BHC	4.027	3.980	4.080	10.990	10.000	9.9
gamma-BHC (Lindane)	3.731	3.680	3.780	10.670	10.000	6.7
Endrin	5.792	5.720	5.860	48.470	50.000	-3.1
4,4'-DDT	6.186	6.120	6.260	95.100	100.000	-4.9
Methoxychlor	6.757	6.690	6.830	195.630	250.000	-21.7

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PESTICIDE CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q2198 **SAS No.:** Q2198 **SDG NO.:** Q2198

GC Column: ZB-MR1 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 05/19/2025 05/19/2025

Client Sample No. (PEM): PEM - PD088821.D **Date Analyzed:** 06/09/2025

Lab Sample No.(PEM): PEM **Time Analyzed:** 10:30

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	9.083	8.980	9.180	23.140	20.000	15.7
Tetrachloro-m-xylene	3.555	3.500	3.610	23.120	20.000	15.6
alpha-BHC	4.005	3.950	4.060	9.790	10.000	-2.1
beta-BHC	4.522	4.470	4.570	11.020	10.000	10.2
gamma-BHC (Lindane)	4.337	4.290	4.390	10.080	10.000	0.8
Endrin	6.582	6.510	6.650	53.120	50.000	6.2
4,4'-DDT	7.029	6.960	7.100	108.700	100.000	8.7
Methoxychlor	7.501	7.430	7.570	250.330	250.000	0.1

GC Column: ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 05/19/2025 05/19/2025

Client Sample No. (PEM): PEM - PD088821.D **Date Analyzed:** 06/09/2025

Lab Sample No.(PEM): PEM **Time Analyzed:** 10:30

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	8.075	7.970	8.180	21.620	20.000	8.1
Tetrachloro-m-xylene	2.879	2.830	2.930	19.460	20.000	-2.7
alpha-BHC	3.392	3.340	3.440	10.090	10.000	0.9
beta-BHC	4.025	3.970	4.080	10.220	10.000	2.2
gamma-BHC (Lindane)	3.729	3.680	3.780	10.210	10.000	2.1
Endrin	5.790	5.720	5.860	45.540	50.000	-8.9
4,4'-DDT	6.185	6.110	6.260	91.970	100.000	-8.0
Methoxychlor	6.756	6.690	6.830	181.270	250.000	-27.5

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Analytical Sequence

Client: Portal Partners Tri-Venture **SDG No.:** Q2198

Project: Amtrak Sawtooth Bridges 2025 **Instrument ID:** ECD_D

GC Column: ZB-MR1 **ID:** 0.32 (mm) **Inst. Calib. Date(s):** 05/19/2025 05/19/2025

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	DATAFILE	DCB RT #	TCX RT #
I.BLK	I.BLK	05/19/2025	10:50	PD088583.D	9.08	3.55
PEM	PEM	05/19/2025	11:04	PD088584.D	9.08	3.55
RESCHK	RESCHK	05/19/2025	11:17	PD088585.D	9.08	3.55
PSTDICC100	PSTDICC100	05/19/2025	11:31	PD088586.D	9.08	3.55
PSTDICC075	PSTDICC075	05/19/2025	11:45	PD088587.D	9.08	3.55
PSTDICC050	PSTDICC050	05/19/2025	11:58	PD088588.D	9.08	3.55
PSTDICC025	PSTDICC025	05/19/2025	12:12	PD088589.D	9.08	3.55
PSTDICC005	PSTDICC005	05/19/2025	12:25	PD088590.D	9.08	3.55
PCHLORICC500	PCHLORICC500	05/19/2025	13:06	PD088593.D	9.08	3.55
PTOXICC500	PTOXICC500	05/19/2025	14:14	PD088598.D	9.08	3.55
I.BLK	I.BLK	06/09/2025	08:50	PD088820.D	9.07	3.55
PEM	PEM	06/09/2025	10:30	PD088821.D	9.08	3.56
PSTDCCC050	PSTDCCC050	06/09/2025	10:44	PD088822.D	9.07	3.55
PB168330BL	PB168330BL	06/09/2025	13:14	PD088832.D	9.08	3.56
PB168330BS	PB168330BS	06/09/2025	13:28	PD088833.D	9.07	3.55
PB168271TB	PB168271TB	06/09/2025	13:44	PD088834.D	9.08	3.55
B-202-SB02	Q2198-02	06/09/2025	14:11	PD088836.D	9.07	3.55
B-207-SB02	Q2198-04	06/09/2025	14:25	PD088837.D	9.07	3.55
B-207-SB02MS	Q2198-04MS	06/09/2025	14:39	PD088838.D	9.07	3.55
B-207-SB02MSD	Q2198-04MSD	06/09/2025	14:53	PD088839.D	9.07	3.55
I.BLK	I.BLK	06/09/2025	15:30	PD088840.D	9.08	3.56
PSTDCCC050	PSTDCCC050	06/09/2025	15:44	PD088841.D	9.07	3.55

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Analytical Sequence

Client: Portal Partners Tri-Venture **SDG No.:** Q2198

Project: Amtrak Sawtooth Bridges 2025 **Instrument ID:** ECD_D

GC Column: ZB-MR2 **ID:** 0.32 (mm) **Inst. Calib. Date(s):** 05/19/2025 05/19/2025

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	DATAFILE	DCB RT #	TCX RT #
I.BLK	I.BLK	05/19/2025	10:50	PD088583.D	8.08	2.88
PEM	PEM	05/19/2025	11:04	PD088584.D	8.08	2.88
RESCHK	RESCHK	05/19/2025	11:17	PD088585.D	8.08	2.88
PSTDICC100	PSTDICC100	05/19/2025	11:31	PD088586.D	8.08	2.88
PSTDICC075	PSTDICC075	05/19/2025	11:45	PD088587.D	8.08	2.88
PSTDICC050	PSTDICC050	05/19/2025	11:58	PD088588.D	8.08	2.88
PSTDICC025	PSTDICC025	05/19/2025	12:12	PD088589.D	8.08	2.88
PSTDICC005	PSTDICC005	05/19/2025	12:25	PD088590.D	8.08	2.88
PCHLORICC500	PCHLORICC500	05/19/2025	13:06	PD088593.D	8.08	2.88
PTOXICC500	PTOXICC500	05/19/2025	14:14	PD088598.D	8.08	2.88
I.BLK	I.BLK	06/09/2025	08:50	PD088820.D	8.07	2.88
PEM	PEM	06/09/2025	10:30	PD088821.D	8.08	2.88
PSTDCCC050	PSTDCCC050	06/09/2025	10:44	PD088822.D	8.07	2.88
PB168330BL	PB168330BL	06/09/2025	13:14	PD088832.D	8.08	2.88
PB168330BS	PB168330BS	06/09/2025	13:28	PD088833.D	8.07	2.88
PB168271TB	PB168271TB	06/09/2025	13:44	PD088834.D	8.07	2.88
B-202-SB02	Q2198-02	06/09/2025	14:11	PD088836.D	8.07	2.88
B-207-SB02	Q2198-04	06/09/2025	14:25	PD088837.D	8.07	2.88
B-207-SB02MS	Q2198-04MS	06/09/2025	14:39	PD088838.D	8.07	2.88
B-207-SB02MSD	Q2198-04MSD	06/09/2025	14:53	PD088839.D	8.07	2.88
I.BLK	I.BLK	06/09/2025	15:30	PD088840.D	8.08	2.88
PSTDCCC050	PSTDCCC050	06/09/2025	15:44	PD088841.D	8.07	2.88

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Fax : 908 789 8922

COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

B-207-SB02MS

Contract: PORT06

Lab Code: CHEM **Case No.:** Q2198 **SAS No.:** Q2198 **SDG NO.:** Q2198

Lab Sample ID: Q2198-04MS **Date(s) Analyzed:** 06/09/2025 06/09/2025

Instrument ID (1): ECD_D **Instrument ID (2):** ECD_D

GC Column: (1): ZB-MR1 **ID:** 0.32 (mm) **GC Column:(2):** ZB-MR2 **ID:** 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%RPD
Methoxychlor	1	7.49	7.44	7.54	6.20	12
	2	6.75	6.70	6.80	5.50	
gamma-BHC (Lindane)	1	4.33	4.28	4.38	6.30	15.4
	2	3.73	3.68	3.78	5.40	
Heptachlor	1	4.93	4.88	4.98	5.40	13.9
	2	4.08	4.03	4.13	4.70	
Heptachlor epoxide	1	5.69	5.64	5.74	6.10	12.2
	2	4.87	4.82	4.92	5.40	
Endrin	1	6.57	6.52	6.62	6.30	13.6
	2	5.79	5.74	5.84	5.50	

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COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

B-207-SB02MSD

Contract: PORT06

Lab Code: CHEM **Case No.:** Q2198 **SAS No.:** Q2198 **SDG NO.:** Q2198

Lab Sample ID: Q2198-04MSD **Date(s) Analyzed:** 06/09/2025 06/09/2025

Instrument ID (1): ECD_D **Instrument ID (2):** ECD_D

GC Column: (1): ZB-MR1 **ID:** 0.32 (mm) **GC Column:(2):** ZB-MR2 **ID:** 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%RPD
Methoxychlor	1	7.49	7.44	7.54	6.20	12
	2	6.75	6.70	6.80	5.50	
gamma-BHC (Lindane)	1	4.33	4.28	4.38	6.40	15.1
	2	3.73	3.68	3.78	5.50	
Heptachlor	1	4.93	4.88	4.98	5.40	13.9
	2	4.08	4.03	4.13	4.70	
Heptachlor epoxide	1	5.69	5.64	5.74	6.10	12.2
	2	4.87	4.82	4.92	5.40	
Endrin	1	6.57	6.52	6.62	6.30	8.3
	2	5.79	5.74	5.84	5.80	

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Fax : 908 789 8922

COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.
PB168330BS

Contract: PORT06
Lab Code: CHEM **Case No.:** Q2198 **SAS No.:** Q2198 **SDG NO.:** Q2198
Lab Sample ID: PB168330BS **Date(s) Analyzed:** 06/09/2025 06/09/2025
Instrument ID (1): ECD_D **Instrument ID (2):** ECD_D
GC Column: (1): ZB-MR1 **ID:** 0.32 (mm) **GC Column:(2):** ZB-MR2 **ID:** 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%RPD
Methoxychlor	1	7.49	7.44	7.54	0.54	9.6
	2	6.75	6.70	6.80	0.49	
gamma-BHC (Lindane)	1	4.33	4.28	4.38	0.53	6.8
	2	3.73	3.68	3.78	0.49	
Heptachlor	1	4.93	4.88	4.98	0.54	10.5
	2	4.08	4.03	4.13	0.48	
Heptachlor epoxide	1	5.69	5.64	5.74	0.53	8.3
	2	4.87	4.82	4.92	0.49	
Endrin	1	6.57	6.52	6.62	0.54	10.4
	2	5.79	5.74	5.84	0.48	

SAMPLE RAW DATA

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD060925\
Data File : PD088834.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 09 Jun 2025 13:44
Operator : AR\AJ
Sample : PB168271TB
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
PB168271TB

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 09 15:22:32 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD051925.M
Quant Title : GC Extractables
QLast Update : Mon May 19 15:27:28 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
1)	SA Tetrachlo...	3.552	2.879	51135624	327.5E6	23.633	21.652
28)	SA Decachlor...	9.077	8.073	86917755	442.0E6	25.397	24.213
	Target Compounds						

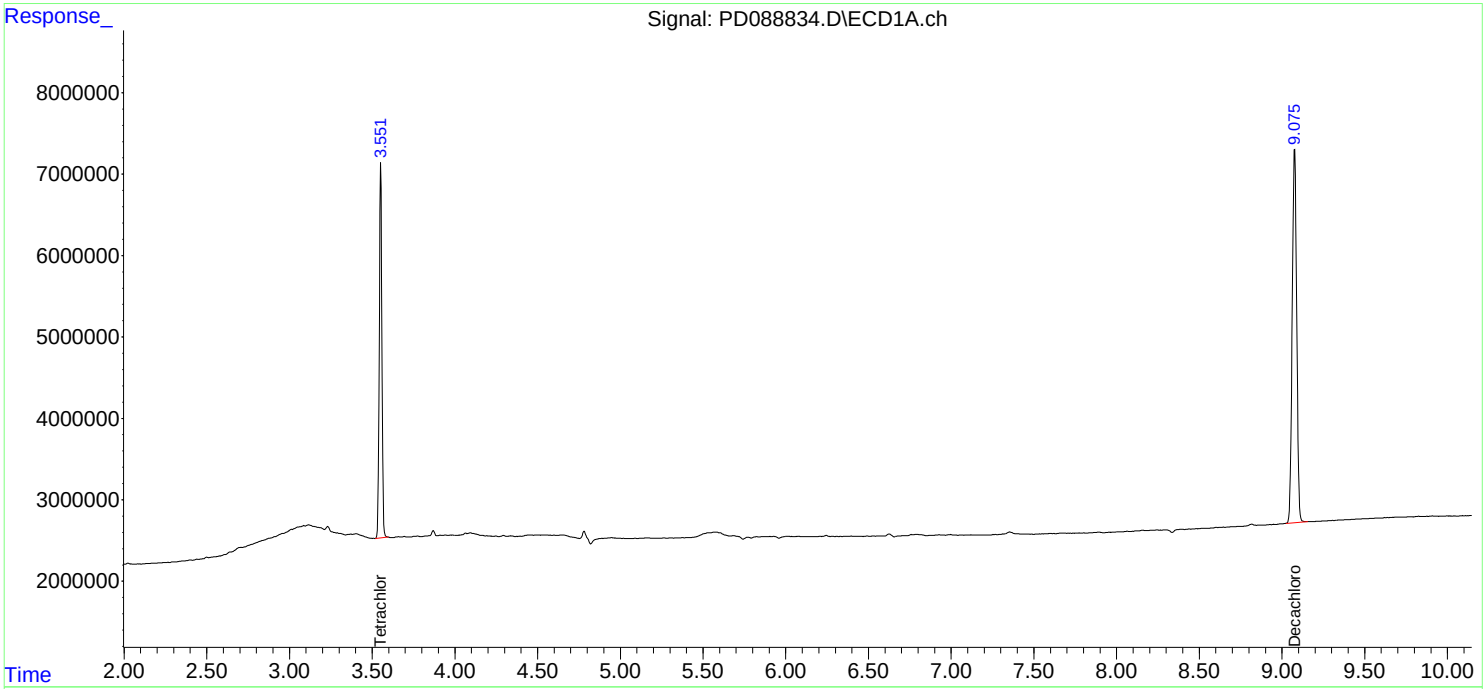
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

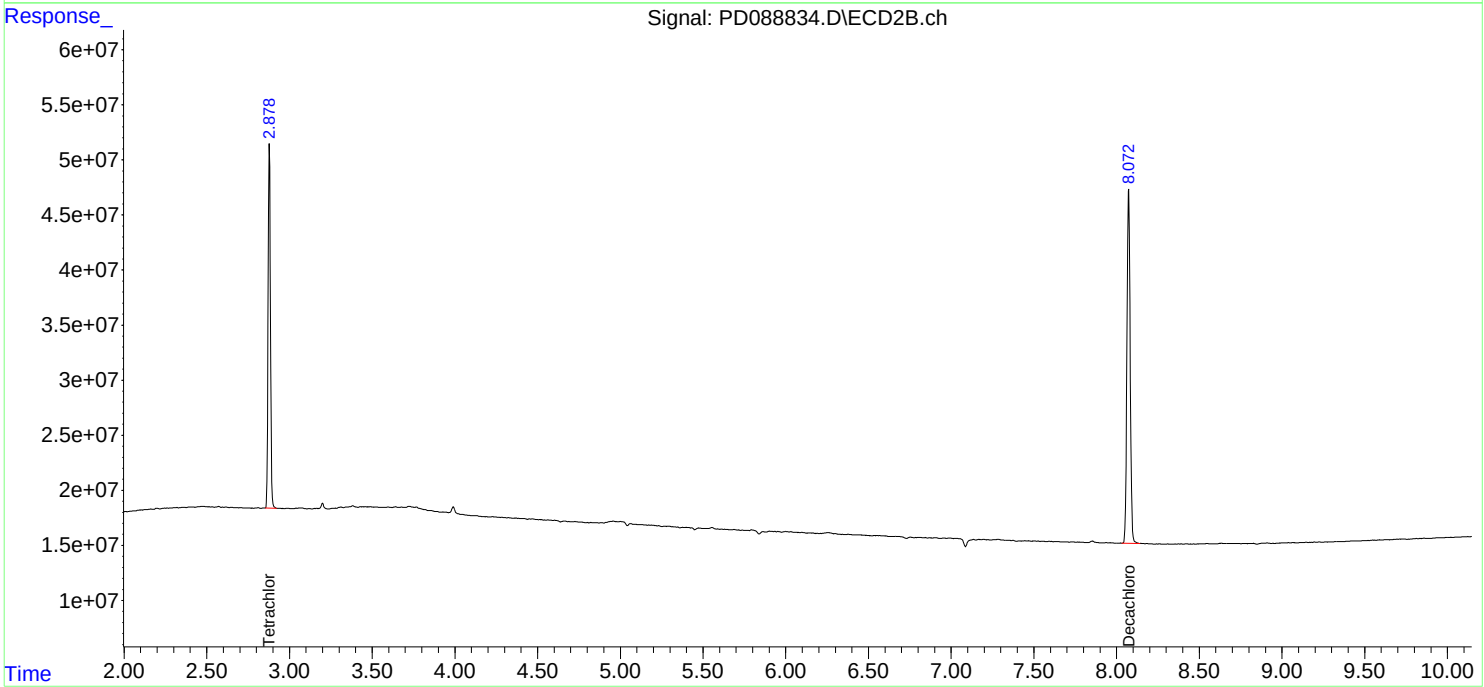
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD060925\
Data File : PD088834.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 09 Jun 2025 13:44
Operator : AR\AJ
Sample : PB168271TB
Misc :
ALS Vial : 16 Sample Multiplier: 1

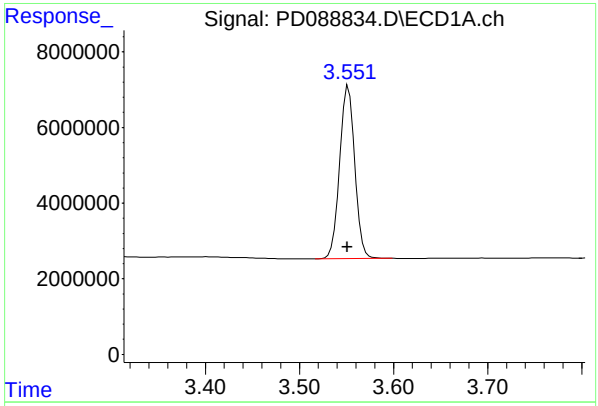
Instrument :
ECD_D
ClientSampleId :
PB168271TB

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 09 15:22:32 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD051925.M
Quant Title : GC Extractables
QLast Update : Mon May 19 15:27:28 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm



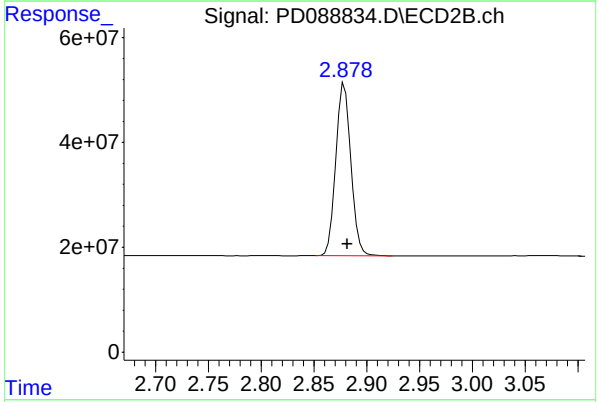




#1 Tetrachloro-m-xylene

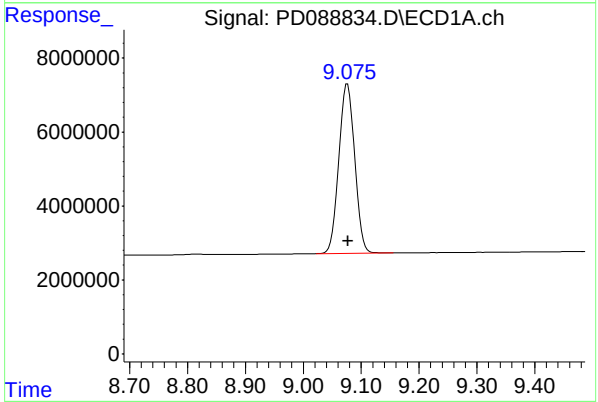
R.T.: 3.552 min
Delta R.T.: 0.001 min
Response: 51135624
Conc: 23.63 ng/ml

Instrument :
ECD_D
ClientSampleId :
PB168271TB



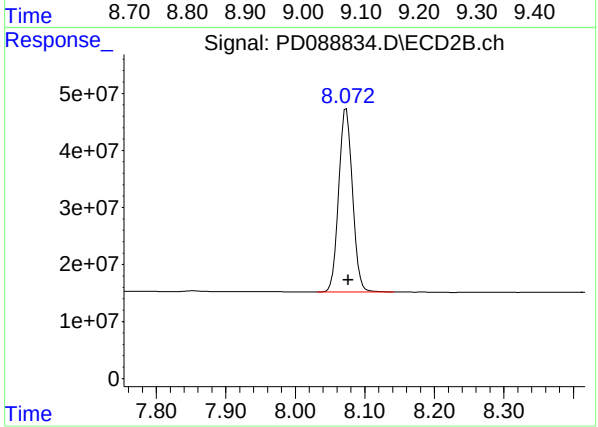
#1 Tetrachloro-m-xylene

R.T.: 2.879 min
Delta R.T.: -0.003 min
Response: 327531784
Conc: 21.65 ng/ml



#28 Decachlorobiphenyl

R.T.: 9.077 min
Delta R.T.: 0.000 min
Response: 86917755
Conc: 25.40 ng/ml



#28 Decachlorobiphenyl

R.T.: 8.073 min
Delta R.T.: -0.003 min
Response: 442035629
Conc: 24.21 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD060925\
Data File : PD088836.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 09 Jun 2025 14:11
Operator : AR\AJ
Sample : Q2198-02
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
B-202-SB02

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 09 15:23:20 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD051925.M
Quant Title : GC Extractables
QLast Update : Mon May 19 15:27:28 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
1)	SA Tetrachlo...	3.549	2.880	50551432	308.0E6	23.363	20.360
28)	SA Decachlor...	9.072	8.072	80456738	411.0E6	23.509	22.512
	Target Compounds						

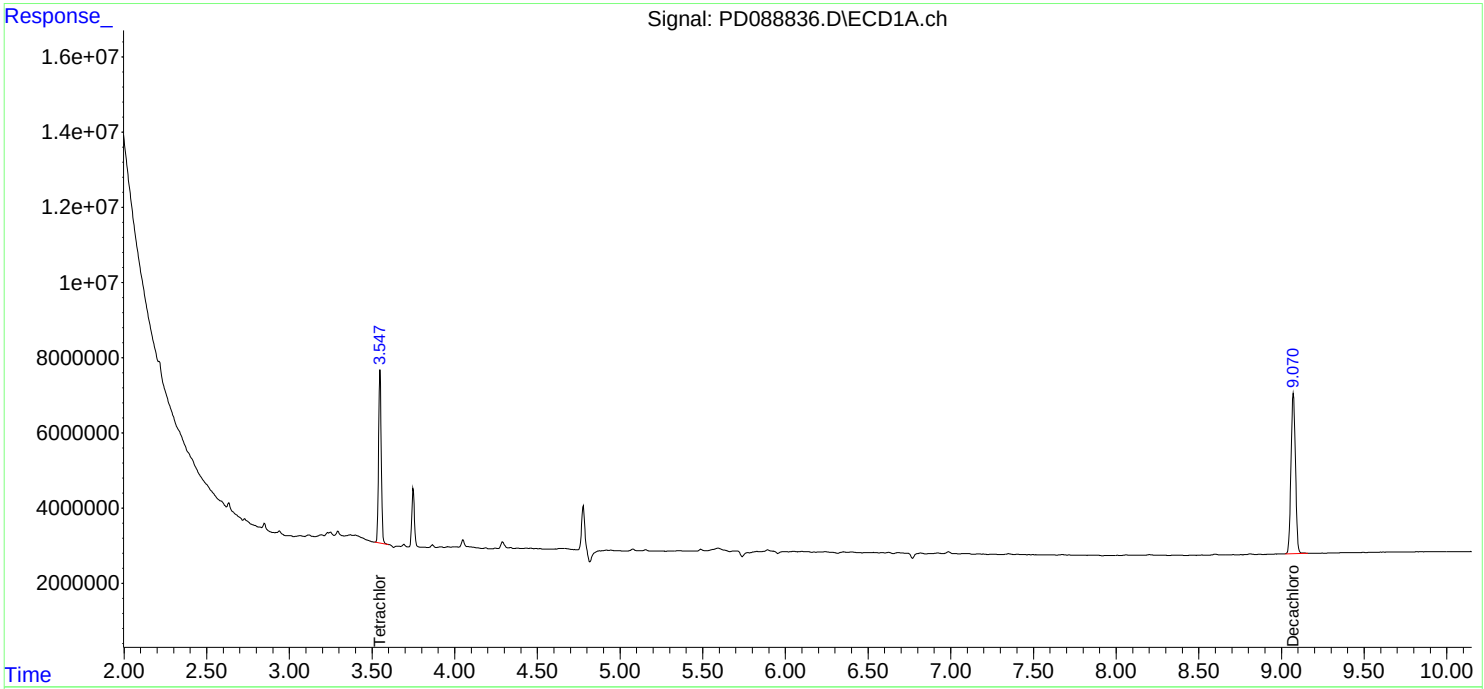
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

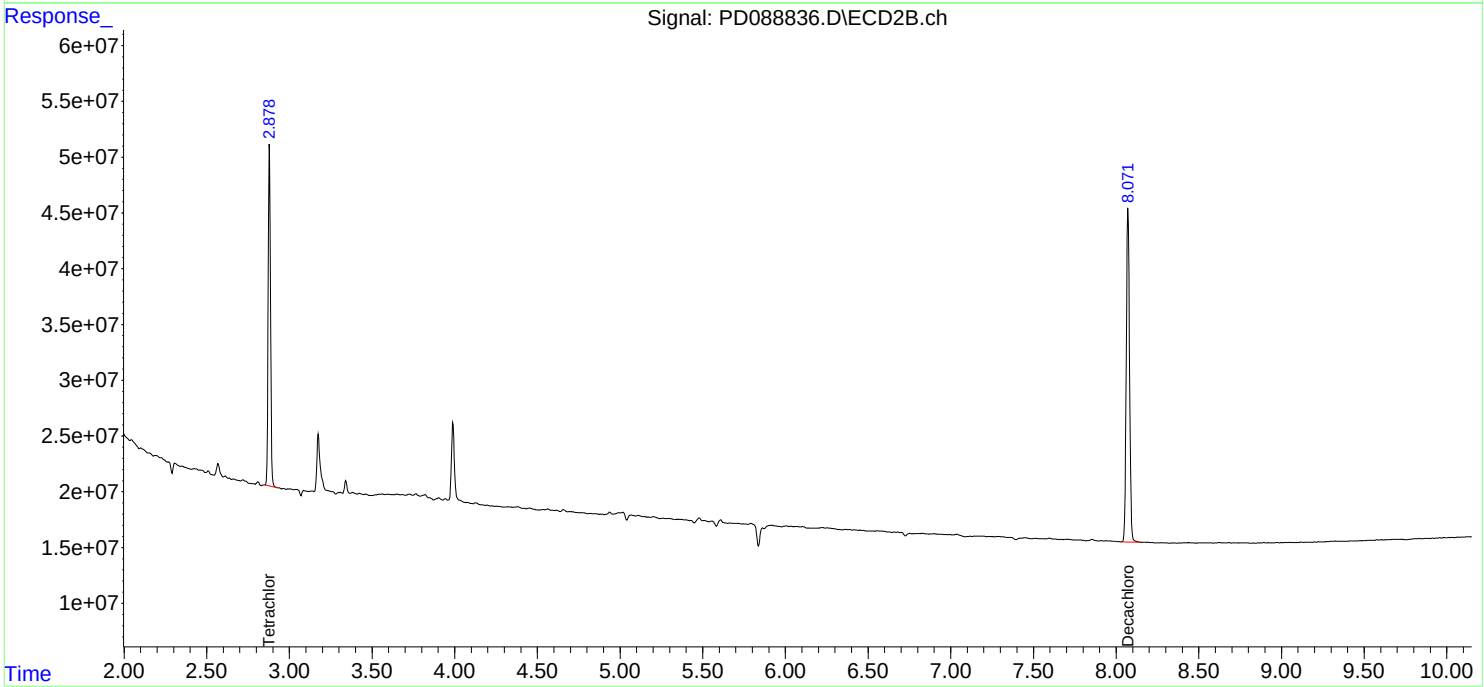
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD060925\
Data File : PD088836.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 09 Jun 2025 14:11
Operator : AR\AJ
Sample : Q2198-02
Misc :
ALS Vial : 18 Sample Multiplier: 1

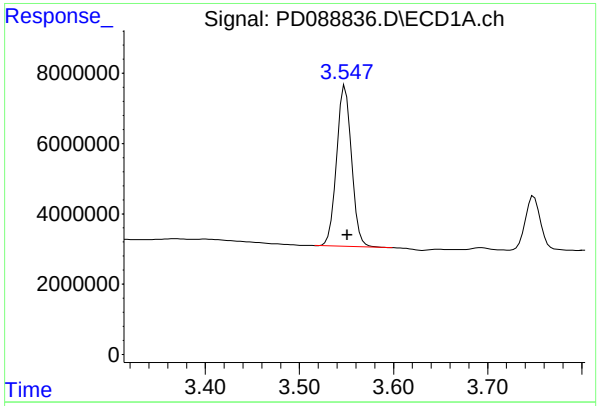
Instrument :
ECD_D
ClientSampleId :
B-202-SB02

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 09 15:23:20 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD051925.M
Quant Title : GC Extractables
QLast Update : Mon May 19 15:27:28 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm



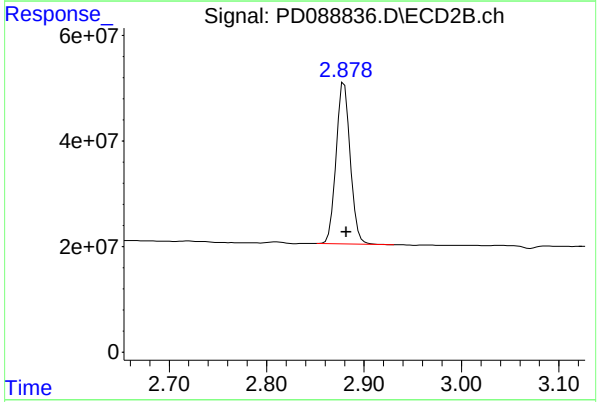




#1 Tetrachloro-m-xylene

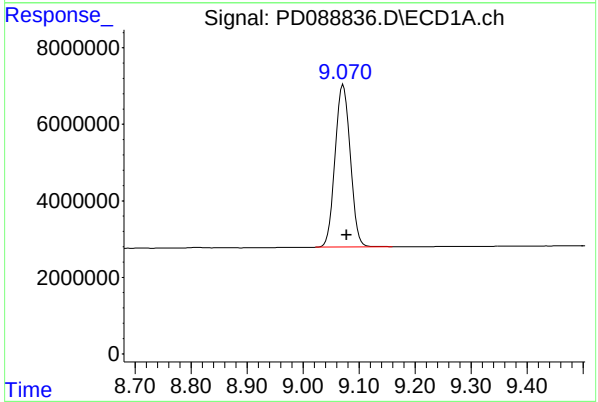
R.T.: 3.549 min
Delta R.T.: -0.002 min
Response: 50551432
Conc: 23.36 ng/ml

Instrument :
ECD_D
ClientSampleId :
B-202-SB02



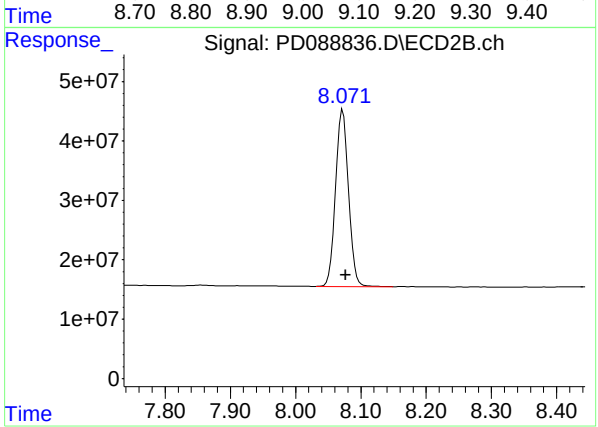
#1 Tetrachloro-m-xylene

R.T.: 2.880 min
Delta R.T.: -0.002 min
Response: 307990017
Conc: 20.36 ng/ml



#28 Decachlorobiphenyl

R.T.: 9.072 min
Delta R.T.: -0.006 min
Response: 80456738
Conc: 23.51 ng/ml



#28 Decachlorobiphenyl

R.T.: 8.072 min
Delta R.T.: -0.004 min
Response: 410980534
Conc: 22.51 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD060925\
Data File : PD088837.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 09 Jun 2025 14:25
Operator : AR\AJ
Sample : Q2198-04
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
B-207-SB02

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 09 15:23:46 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD051925.M
Quant Title : GC Extractables
QLast Update : Mon May 19 15:27:28 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
1)	SA Tetrachlo...	3.549	2.880	49900506	307.1E6	23.062	20.304
28)	SA Decachlor...	9.073	8.072	86174309	439.6E6	25.180	24.077
	Target Compounds						

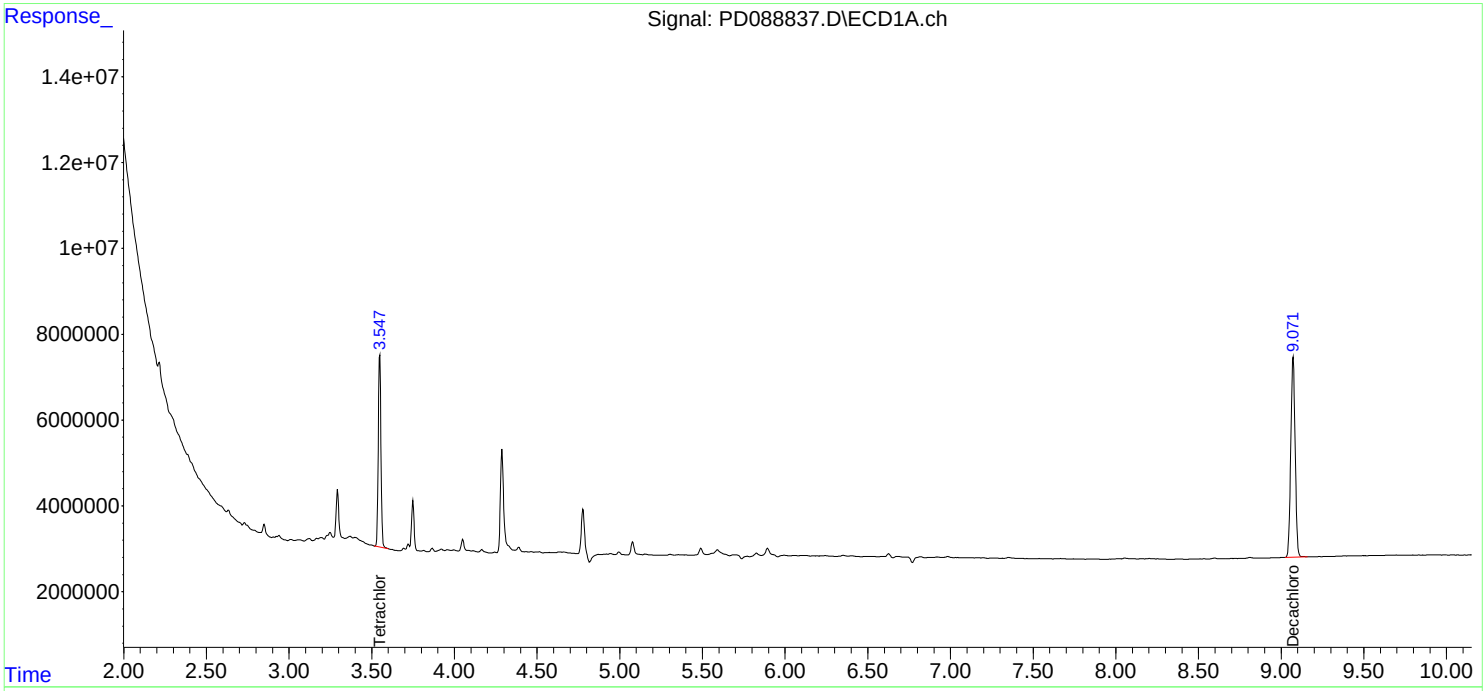
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

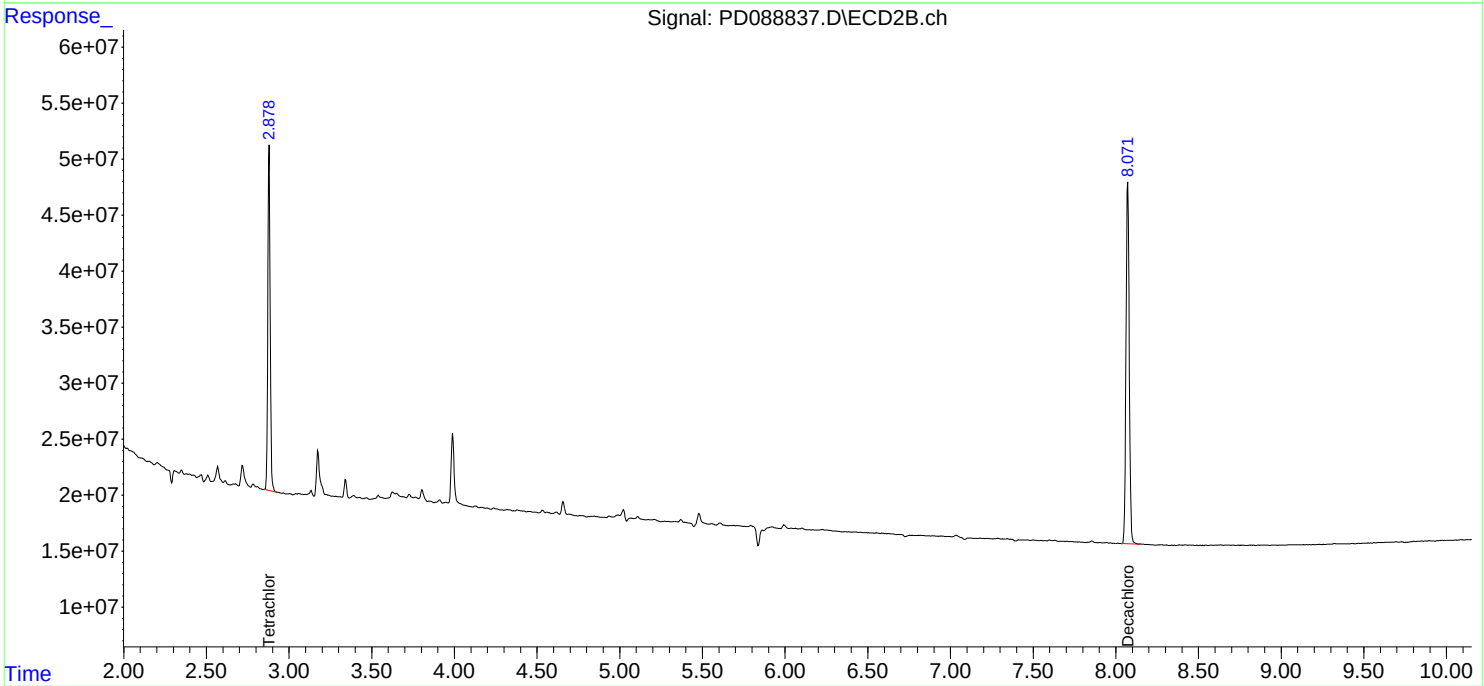
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD060925\
Data File : PD088837.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 09 Jun 2025 14:25
Operator : AR\AJ
Sample : Q2198-04
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
B-207-SB02

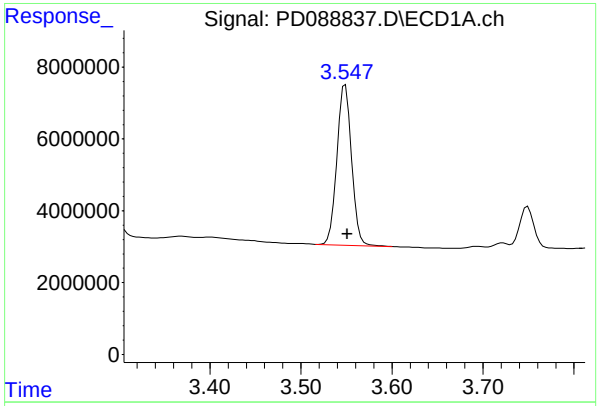
Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 09 15:23:46 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD051925.M
Quant Title : GC Extractables
QLast Update : Mon May 19 15:27:28 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm



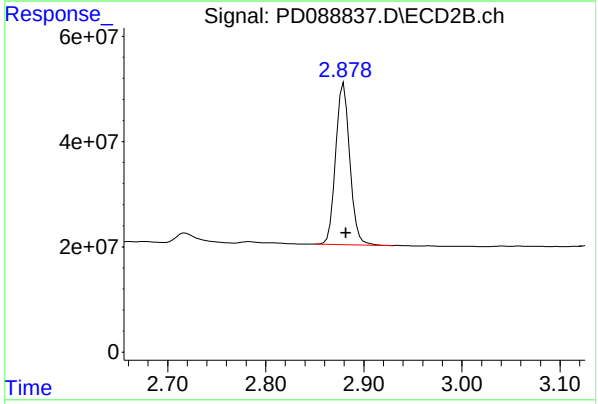


Instrument :
ECD_D
ClientSampleId :
B-207-SB02



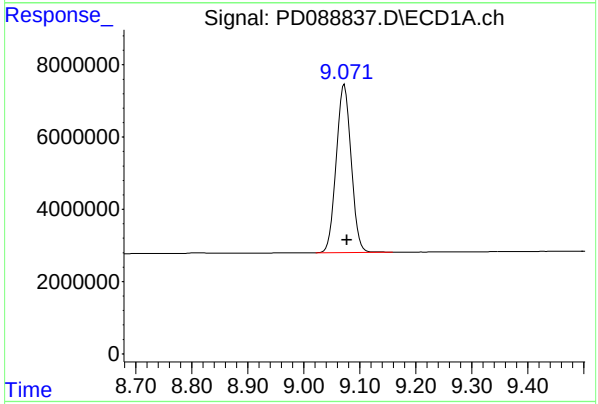
#1 Tetrachloro-m-xylene

R.T.: 3.549 min
Delta R.T.: -0.002 min
Response: 49900506
Conc: 23.06 ng/ml



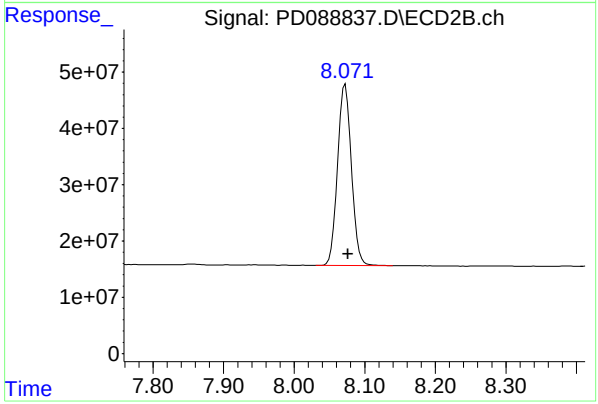
#1 Tetrachloro-m-xylene

R.T.: 2.880 min
Delta R.T.: -0.002 min
Response: 307142383
Conc: 20.30 ng/ml



#28 Decachlorobiphenyl

R.T.: 9.073 min
Delta R.T.: -0.005 min
Response: 86174309
Conc: 25.18 ng/ml



#28 Decachlorobiphenyl

R.T.: 8.072 min
Delta R.T.: -0.004 min
Response: 439554873
Conc: 24.08 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD060925\
Data File : PD088832.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 09 Jun 2025 13:14
Operator : AR\AJ
Sample : PB168330BL
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
PB168330BL

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 09 13:57:31 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD051925.M
Quant Title : GC Extractables
QLast Update : Mon May 19 15:27:28 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
1)	SA Tetrachlo...	3.555	2.880	52203070	329.3E6	24.126	21.771
28)	SA Decachlor...	9.081	8.075	88127967	446.3E6	25.751	24.446
	Target Compounds						

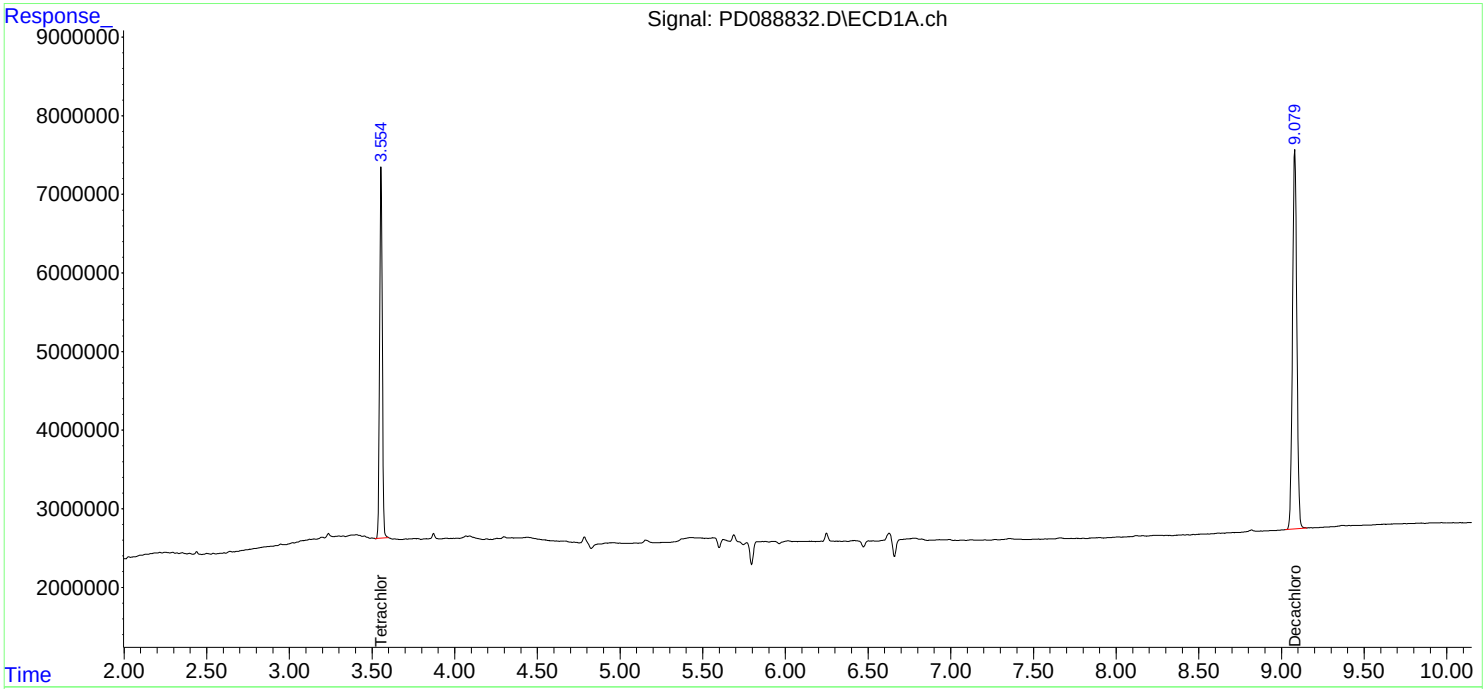
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

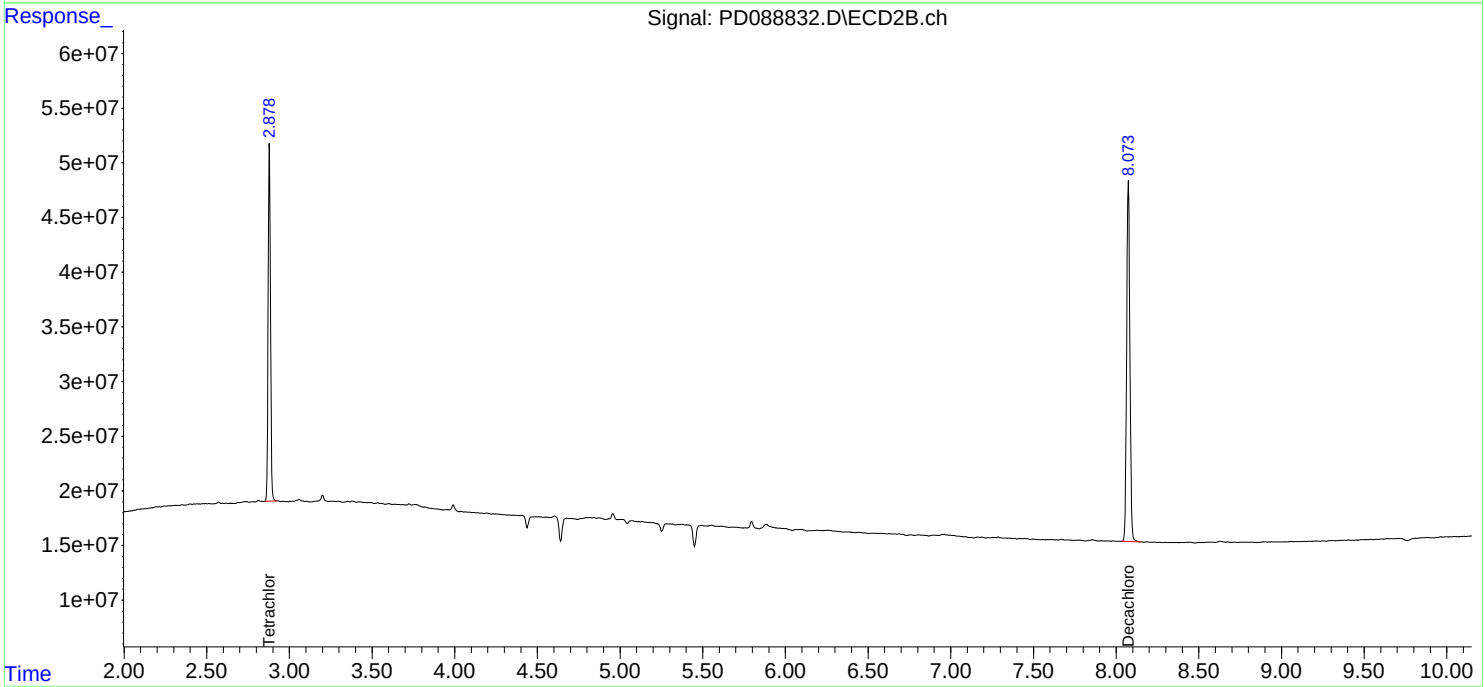
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD060925\
Data File : PD088832.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 09 Jun 2025 13:14
Operator : AR\AJ
Sample : PB168330BL
Misc :
ALS Vial : 14 Sample Multiplier: 1

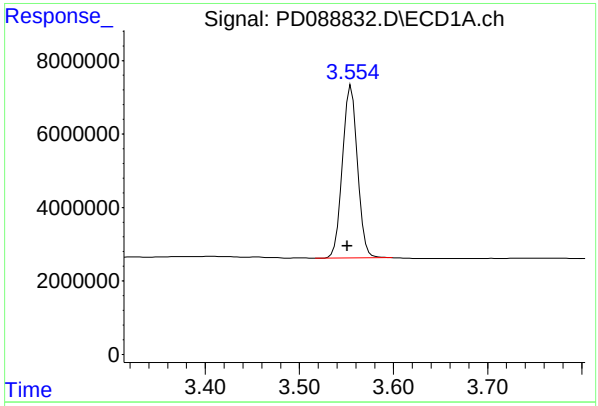
Instrument :
ECD_D
ClientSampleId :
PB168330BL

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 09 13:57:31 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD051925.M
Quant Title : GC Extractables
QLast Update : Mon May 19 15:27:28 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm



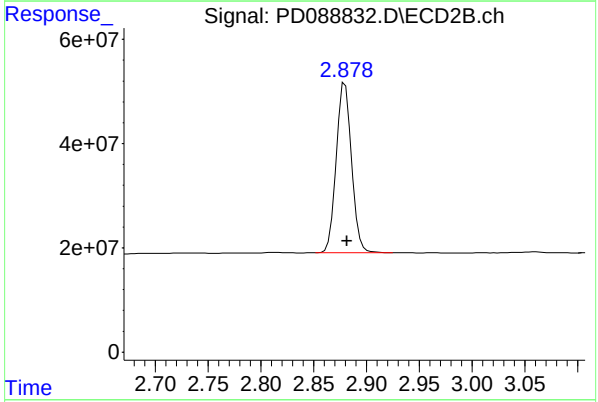




#1 Tetrachloro-m-xylene

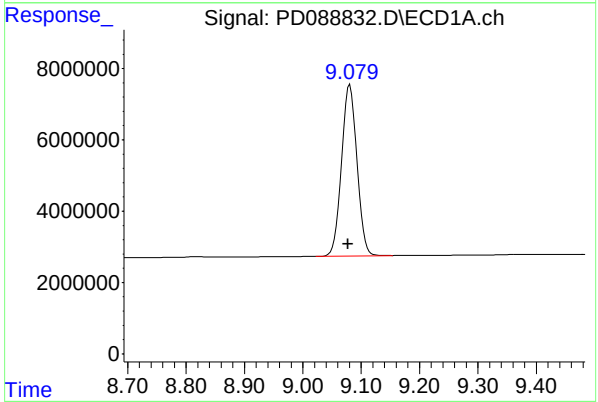
R.T.: 3.555 min
Delta R.T.: 0.004 min
Response: 52203070
Conc: 24.13 ng/ml

Instrument :
ECD_D
ClientSampleId :
PB168330BL



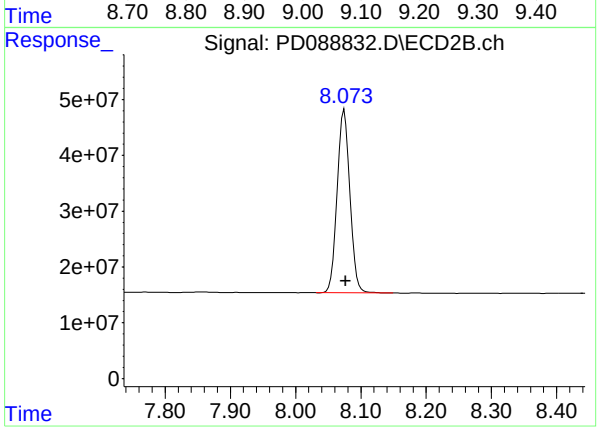
#1 Tetrachloro-m-xylene

R.T.: 2.880 min
Delta R.T.: -0.002 min
Response: 329330180
Conc: 21.77 ng/ml



#28 Decachlorobiphenyl

R.T.: 9.081 min
Delta R.T.: 0.003 min
Response: 88127967
Conc: 25.75 ng/ml



#28 Decachlorobiphenyl

R.T.: 8.075 min
Delta R.T.: -0.002 min
Response: 446290877
Conc: 24.45 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD060925\
Data File : PD088833.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 09 Jun 2025 13:28
Operator : AR\AJ
Sample : PB168330BS
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
PB168330BS

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 09 13:58:05 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD051925.M
Quant Title : GC Extractables
QLast Update : Mon May 19 15:27:28 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
1)	SA Tetrachlo...	3.548	2.879	47548210	308.6E6	21.975	20.399
28)	SA Decachlor...	9.072	8.073	81476462	418.3E6	23.807	22.915
	Target Compounds						
2)	A alpha-BHC	3.998	3.392	254.6E6	1173.2E6	53.292	49.082
3)	MA gamma-BHC...	4.329	3.729	242.3E6	1089.9E6	52.648	49.169
4)	MA Heptachlor	4.928	4.082	240.6E6	1087.7E6	53.806	48.440
5)	MB Aldrin	5.270	4.367	234.5E6	1076.8E6	53.351	49.102
6)	B beta-BHC	4.514	4.024	93563253	471.9E6	51.889	48.440
7)	B delta-BHC	4.763	4.261	239.2E6	1098.4E6	56.589	49.268
8)	B Heptachlo...	5.690	4.872	210.9E6	971.5E6	53.133	48.890
9)	A Endosulfan I	6.074	5.246	200.1E6	934.7E6	53.176	49.252
10)	B gamma-Chl...	5.945	5.125	211.6E6	1055.8E6	53.046	49.495
11)	B alpha-Chl...	6.026	5.189	213.4E6	1013.3E6	53.276	49.132
12)	B 4,4'-DDE	6.195	5.374	196.0E6	1026.4E6	54.597	49.105
13)	MA Dieldrin	6.346	5.512	214.5E6	1036.0E6	53.461	49.231
14)	MA Endrin	6.574	5.788	183.0E6	931.1E6	53.588	48.284
15)	B Endosulfa...	6.786	6.080	182.2E6	904.0E6	52.910	49.340
16)	A 4,4'-DDD	6.705	5.929	155.8E6	867.3E6	55.946	49.864
17)	MA 4,4'-DDT	7.021	6.183	169.7E6	900.5E6	54.367	49.652
18)	B Endrin al...	6.914	6.258	137.9E6	687.2E6	53.563	49.340
19)	B Endosulfa...	7.149	6.481	172.4E6	877.1E6	53.829	49.396
20)	A Methoxychlor	7.493	6.754	89476797	465.8E6	53.561	48.646
21)	B Endrin ke...	7.630	6.991	186.2E6	978.4E6	54.396	50.568
22)	Mirex	8.113	7.185	136.8E6	754.5E6	52.666	49.632

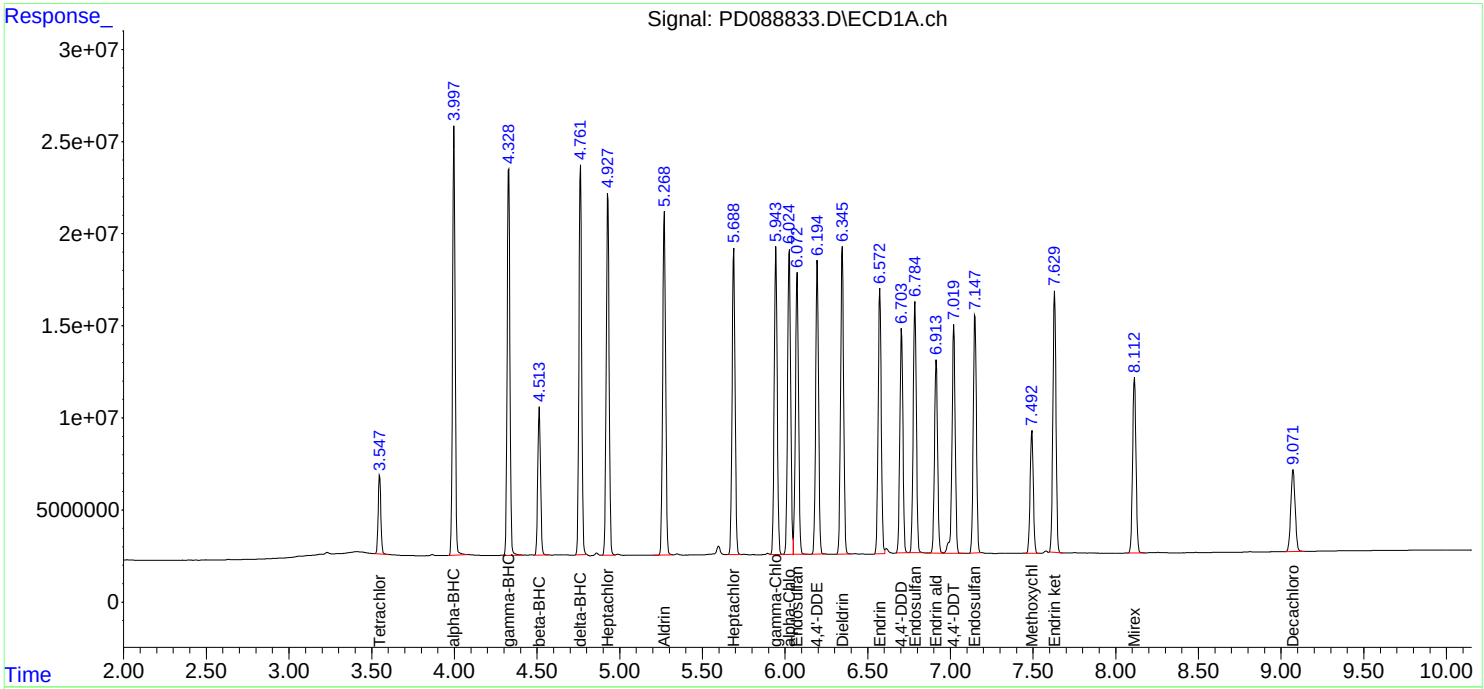
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

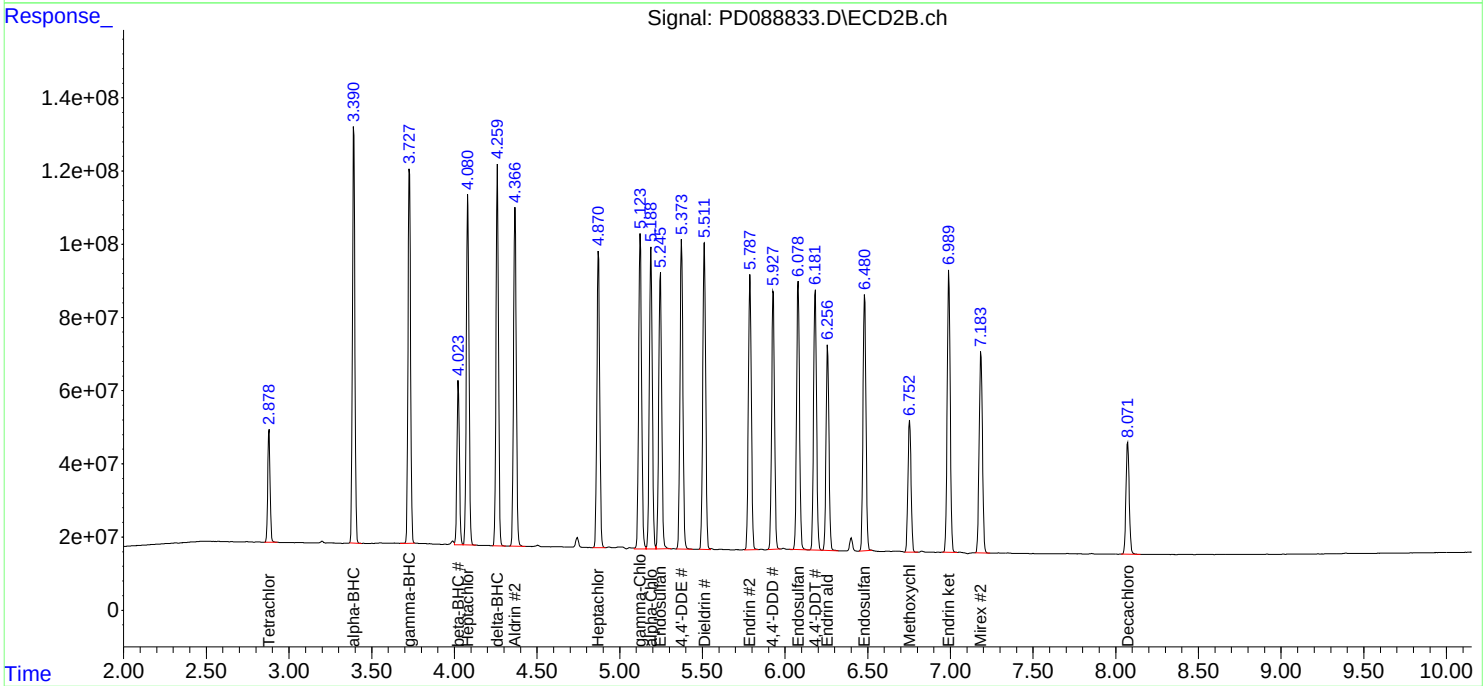
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD060925\
Data File : PD088833.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 09 Jun 2025 13:28
Operator : AR\AJ
Sample : PB168330BS
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
PB168330BS

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 09 13:58:05 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD051925.M
Quant Title : GC Extractables
QLast Update : Mon May 19 15:27:28 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm





Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD060925\
Data File : PD088838.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 09 Jun 2025 14:39
Operator : AR\AJ
Sample : Q2198-04MS
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
B-207-SB02MS

Manual Integrations APPROVED
Reviewed By :Abdul Mirza 06/10/2025
Supervised By :mohammad ahmed 06/11/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 09 15:24:11 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD051925.M
Quant Title : GC Extractables
QLast Update : Mon May 19 15:27:28 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
		System Monitoring Compounds						
1)	SA	Tetrachlo...	3.549	2.880	52420113	319.0E6	24.227	21.092
28)	SA	Decachlor...	9.072	8.072	88460583	452.1E6	25.848	24.764
		Target Compounds						
2)	A	alpha-BHC	3.998	3.392	296.9E6	1281.9E6	62.152	53.627
3)	MA	gamma-BHC...	4.329	3.729	290.6E6	1203.5E6	63.145	54.293
4)	MA	Heptachlor	4.928	4.082	242.9E6	1052.9E6	54.317	46.887
5)	MB	Aldrin	5.270	4.368	226.1E6	1010.3E6	51.449	46.069
6)	B	beta-BHC	4.514	4.024	109.6E6	526.8E6	60.810	54.072
7)	B	delta-BHC	4.763	4.261	290.0E6	1237.4E6	68.626	55.505
8)	B	Heptachlo...	5.690	4.872	242.0E6	1072.3E6	60.977	53.960
9)	A	Endosulfan I	6.074	5.246	230.3E6	1031.0E6	61.190	54.327
10)	B	gamma-Chl...	5.945	5.125	241.8E6	1161.3E6	60.627	54.438
11)	B	alpha-Chl...	6.026	5.189	244.6E6	1118.5E6	61.057	54.231
12)	B	4,4'-DDE	6.195	5.375	223.5E6	1129.4E6	62.265	54.034
13)	MA	Dieldrin	6.346	5.510	249.4E6	1152.0E6	62.156	54.744m
14)	MA	Endrin	6.574	5.787	215.1E6	1056.9E6	62.972	54.807m
15)	B	Endosulfa...	6.786	6.079	201.8E6	1016.9E6	58.615	55.504
16)	A	4,4'-DDD	6.704	5.929	180.4E6	961.8E6	64.775	55.298
17)	MA	4,4'-DDT	7.020	6.183	192.2E6	1016.7E6	61.554	56.055
18)	B	Endrin al...	6.914	6.258	159.8E6	776.7E6	62.079	55.765
19)	B	Endosulfa...	7.149	6.482	199.8E6	991.2E6	62.392	55.826
20)	A	Methoxychlor	7.493	6.754	103.8E6	526.8E6	62.131	55.015
21)	B	Endrin ke...	7.629	6.991	214.9E6	1101.0E6	62.767	56.906
22)		Mirex	8.113	7.185	152.4E6	828.0E6	58.650	54.464

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

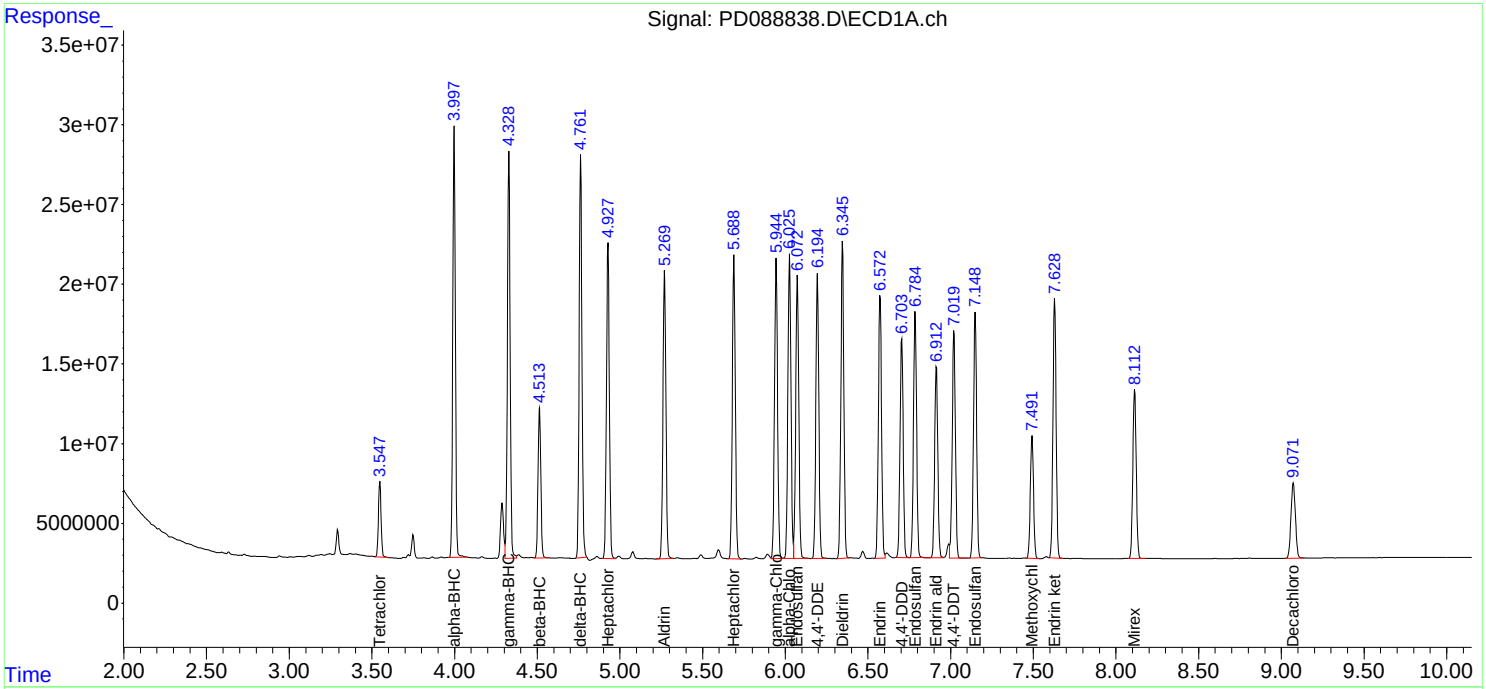
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD060925\
Data File : PD088838.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 09 Jun 2025 14:39
Operator : AR\AJ
Sample : Q2198-04MS
Misc :
ALS Vial : 20 Sample Multiplier: 1

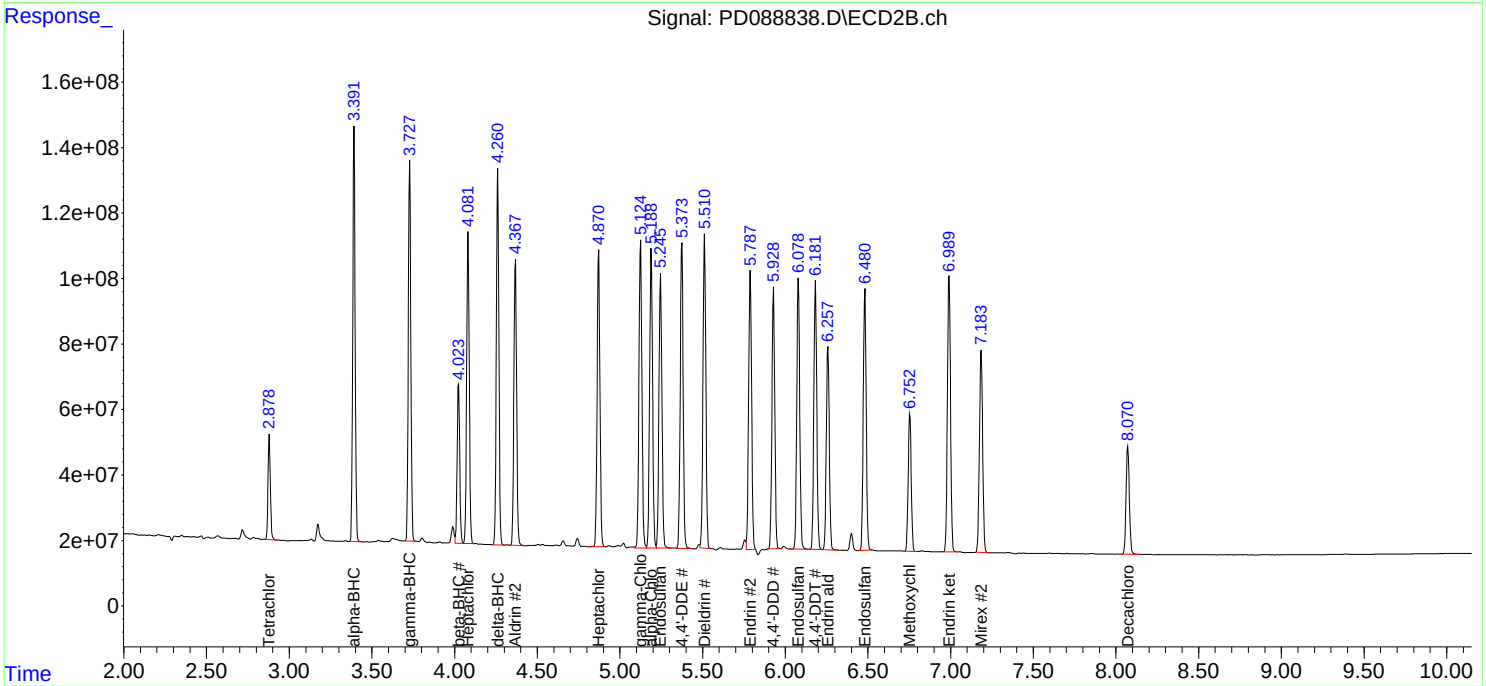
Instrument :
ECD_D
ClientSampleId :
B-207-SB02MS

Manual Integrations APPROVED
Reviewed By :Abdul Mirza 06/10/2025
Supervised By :mohammad ahmed 06/11/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 09 15:24:11 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD051925.M
Quant Title : GC Extractables
QLast Update : Mon May 19 15:27:28 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm





Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD060925\
Data File : PD088839.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 09 Jun 2025 14:53
Operator : AR\AJ
Sample : Q2198-04MSD
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
B-207-SB02MSD

Manual Integrations APPROVED
Reviewed By :Abdul Mirza 06/10/2025
Supervised By :mohammad ahmed 06/11/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 09 15:24:38 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD051925.M
Quant Title : GC Extractables
QLast Update : Mon May 19 15:27:28 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
		System Monitoring Compounds						
1)	SA	Tetrachlo...	3.548	2.880	52602910	321.6E6	24.311	21.260
28)	SA	Decachlor...	9.072	8.072	89449800	454.2E6	26.137	24.879
		Target Compounds						
2)	A	alpha-BHC	3.998	3.392	298.2E6	1291.3E6	62.430	54.019
3)	MA	gamma-BHC...	4.329	3.728	292.3E6	1211.2E6	63.504	54.643
4)	MA	Heptachlor	4.928	4.082	243.6E6	1061.8E6	54.477	47.285
5)	MB	Aldrin	5.270	4.368	226.9E6	1013.8E6	51.640	46.227
6)	B	beta-BHC	4.514	4.024	110.2E6	532.3E6	61.134	54.644
7)	B	delta-BHC	4.762	4.261	294.3E6	1242.5E6	69.650	55.732
8)	B	Heptachlo...	5.690	4.872	242.7E6	1076.5E6	61.145	54.173
9)	A	Endosulfan I	6.073	5.246	230.6E6	1035.9E6	61.287	54.582
10)	B	gamma-Chl...	5.945	5.125	242.6E6	1166.9E6	60.811	54.701
11)	B	alpha-Chl...	6.026	5.189	244.9E6	1125.4E6	61.127	54.566
12)	B	4,4'-DDE	6.195	5.374	224.1E6	1135.1E6	62.422	54.305
13)	MA	Dieldrin	6.346	5.510	250.0E6	1164.1E6	62.315	55.318m
14)	MA	Endrin	6.573	5.789	215.3E6	1115.1E6	63.050	57.827
15)	B	Endosulfa...	6.785	6.080	202.6E6	1022.7E6	58.841	55.816
16)	A	4,4'-DDD	6.704	5.929	181.1E6	966.5E6	65.023	55.573
17)	MA	4,4'-DDT	7.021	6.183	201.5E6	1021.1E6	64.556	56.299
18)	B	Endrin al...	6.914	6.258	160.8E6	781.8E6	62.458	56.130
19)	B	Endosulfa...	7.149	6.481	200.9E6	996.8E6	62.714	56.141
20)	A	Methoxychlor	7.492	6.754	104.2E6	530.0E6	62.391	55.352
21)	B	Endrin ke...	7.629	6.991	216.2E6	1104.9E6	63.164	57.109
22)		Mirex	8.113	7.185	153.8E6	832.4E6	59.209	54.752

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

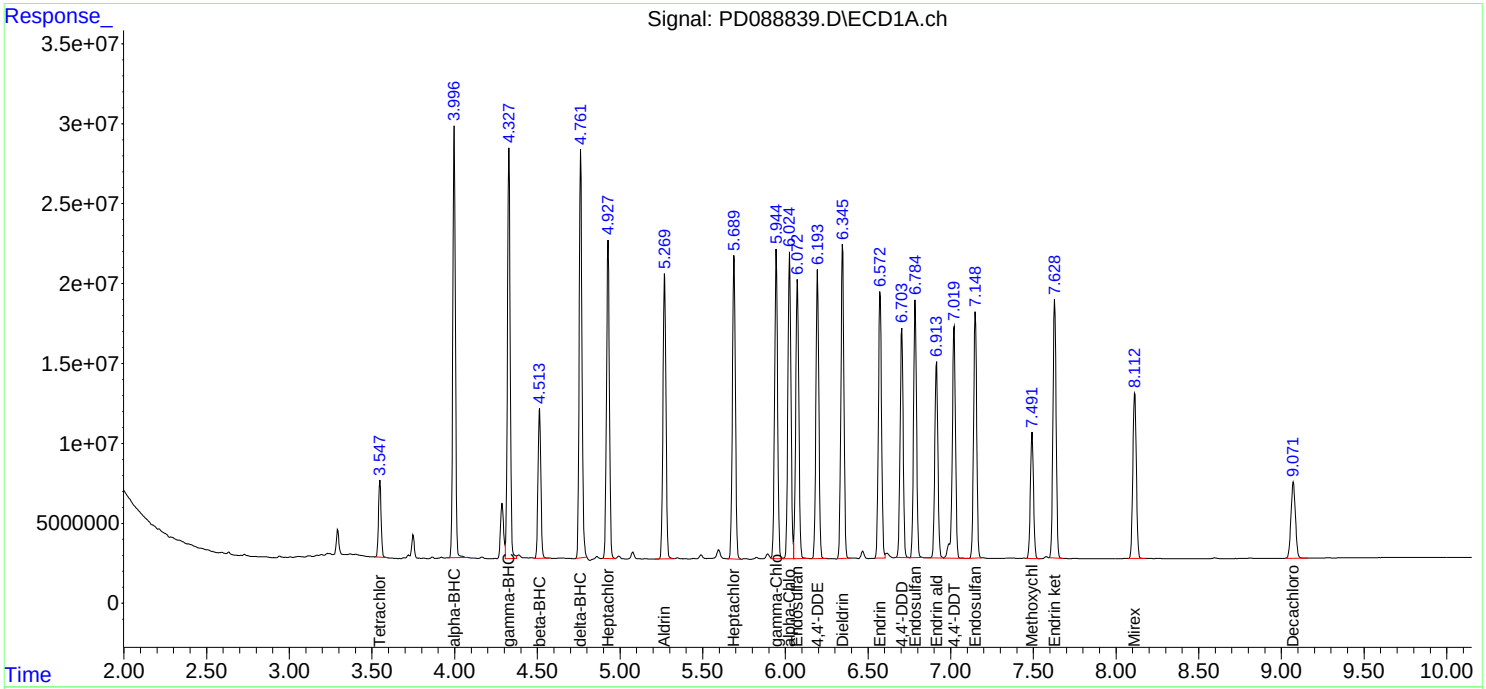
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD060925\
Data File : PD088839.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 09 Jun 2025 14:53
Operator : AR\AJ
Sample : Q2198-04MSD
Misc :
ALS Vial : 21 Sample Multiplier: 1

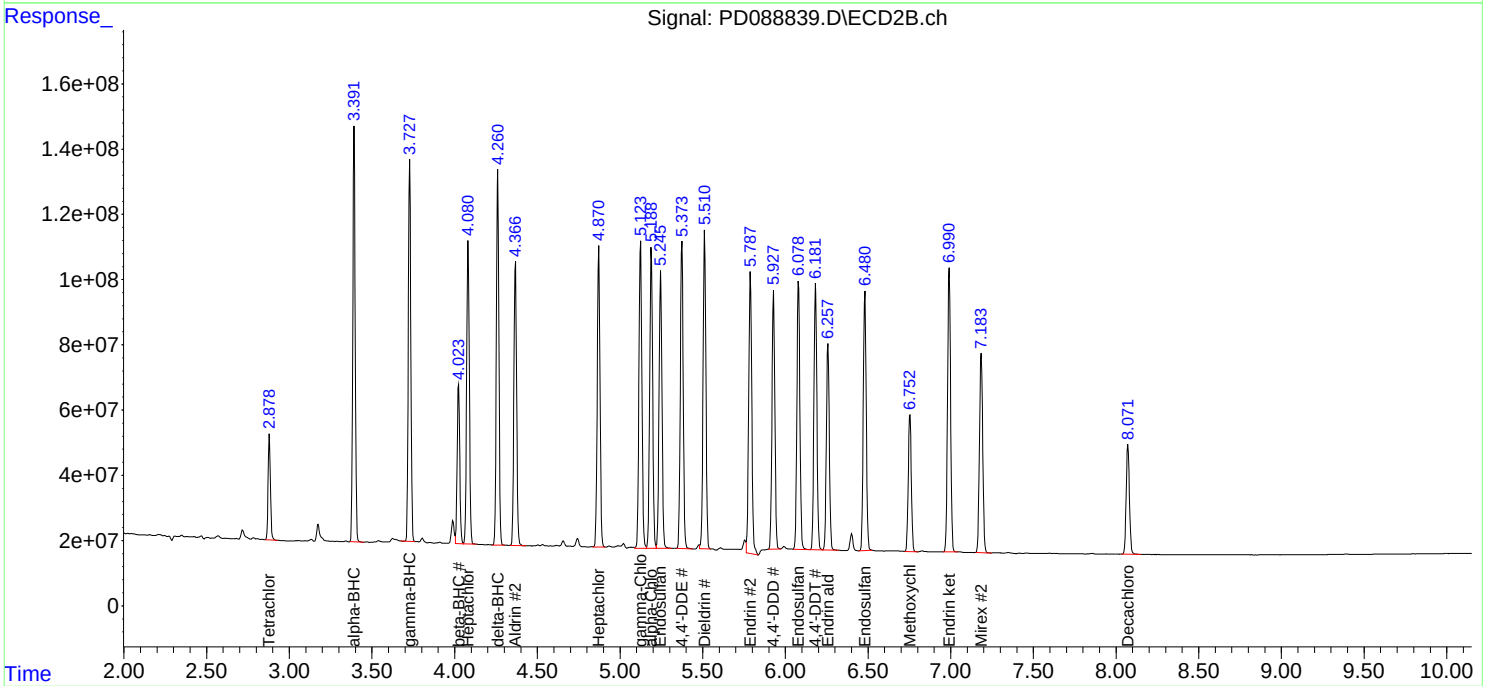
Instrument :
ECD_D
ClientSampleId :
B-207-SB02MSD

Manual Integrations APPROVED
Reviewed By :Abdul Mirza 06/10/2025
Supervised By :mohammad ahmed 06/11/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 09 15:24:38 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD051925.M
Quant Title : GC Extractables
QLast Update : Mon May 19 15:27:28 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm





284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

Manual Integration Report

Sequence:	PD051925	Instrument	ECD_d

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
PEM	PD088584.D	4,4"-DDD	Abdul	5/20/2025 9:03:15 AM	mohammad	5/21/2025 5:34:48	Peak Integrated by Software
PEM	PD088584.D	4,4"-DDD #2	Abdul	5/20/2025 9:03:15 AM	mohammad	5/21/2025 5:34:48	Peak Integrated by Software
PEM	PD088584.D	Endrin aldehyde	Abdul	5/20/2025 9:03:15 AM	mohammad	5/21/2025 5:34:48	Peak Integrated by Software
PEM	PD088584.D	Endrin aldehyde #2	Abdul	5/20/2025 9:03:15 AM	mohammad	5/21/2025 5:34:48	Peak Integrated by Software
PEM	PD088584.D	Endrin ketone	Abdul	5/20/2025 9:03:15 AM	mohammad	5/21/2025 5:34:48	Peak Integrated by Software
PEM	PD088584.D	Endrin ketone #2	Abdul	5/20/2025 9:03:15 AM	mohammad	5/21/2025 5:34:48	Peak Integrated by Software
PSTDICC005	PD088590.D	Heptachlor	Abdul	5/20/2025 9:03:19 AM	mohammad	5/21/2025 5:34:48	Peak Integrated by Software
PSTDICC005	PD088590.D	Heptachlor epoxide	Abdul	5/20/2025 9:03:19 AM	mohammad	5/21/2025 5:34:48	Peak Integrated by Software
PCHLORICV500	PD088602.D	Chlordane-1	Abdul	5/20/2025 9:03:30 AM	mohammad	5/21/2025 5:34:48	Peak Integrated by Software
PEM	PD088605.D	4,4"-DDD	Abdul	5/20/2025 9:03:34 AM	mohammad	5/21/2025 5:34:48	Peak Integrated by Software
PEM	PD088605.D	4,4"-DDD #2	Abdul	5/20/2025 9:03:34 AM	mohammad	5/21/2025 5:34:48	Peak Integrated by Software
PEM	PD088605.D	Endrin aldehyde #2	Abdul	5/20/2025 9:03:34 AM	mohammad	5/21/2025 5:34:48	Peak Integrated by Software
PEM	PD088605.D	Endrin ketone	Abdul	5/20/2025 9:03:34 AM	mohammad	5/21/2025 5:34:48	Peak Integrated by Software

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Manual Integration Report

Sequence:	PD051925	Instrument	ECD_d

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
PEM	PD088605.D	Endrin ketone #2	Abdul	5/20/2025 9:03:34 AM	mohammad	5/21/2025 5:34:48	Peak Integrated by Software
I.BLK	PD088613.D	Decachlorobiphenyl	Abdul	5/20/2025 9:03:54 AM	mohammad	5/21/2025 5:34:48	Peak Integrated by Software
PSTDCCC050	PD088614.D	4,4"-DDE #2	Abdul	5/20/2025 9:03:58 AM	mohammad	5/21/2025 5:34:48	Peak Integrated by Software

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Manual Integration Report

Sequence:	Pd060925	Instrument	ECD_d

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
PEM	PD088821.D	Endrin aldehyde	Abdul	6/10/2025 8:34:47 AM	mohammad	6/11/2025 2:16:06	Peak Integrated by Software
PEM	PD088821.D	Endrin ketone	Abdul	6/10/2025 8:34:47 AM	mohammad	6/11/2025 2:16:06	Peak Integrated by Software
PSTDCCC050	PD088822.D	4,4"-DDE #2	Abdul	6/10/2025 8:34:53 AM	mohammad	6/11/2025 2:16:06	Peak Integrated by Software
PSTDCCC050	PD088822.D	Endosulfan II #2	Abdul	6/10/2025 8:34:53 AM	mohammad	6/11/2025 2:16:06	Peak Integrated by Software
Q2198-04MS	PD088838.D	Dieldrin #2	Abdul	6/10/2025 8:34:57 AM	mohammad	6/11/2025 2:16:06	Peak Integrated by Software
Q2198-04MS	PD088838.D	Endrin #2	Abdul	6/10/2025 8:34:57 AM	mohammad	6/11/2025 2:16:06	Peak Integrated by Software
Q2198-04MSD	PD088839.D	Dieldrin #2	Abdul	6/10/2025 8:35:01 AM	mohammad	6/11/2025 2:16:06	Peak Integrated by Software
PSTDCCC050	PD088841.D	4,4"-DDE #2	Abdul	6/10/2025 8:35:05 AM	mohammad	6/11/2025 2:16:06	Peak Integrated by Software
PSTDCCC050	PD088841.D	Aldrin #2	Abdul	6/10/2025 8:35:05 AM	mohammad	6/11/2025 2:16:06	Peak Integrated by Software
PSTDCCC050	PD088851.D	4,4"-DDE #2	Abdul	6/10/2025 8:35:31 AM	mohammad	6/11/2025 2:16:06	Peak Integrated by Software
PSTDCCC050	PD088851.D	Aldrin #2	Abdul	6/10/2025 8:35:31 AM	mohammad	6/11/2025 2:16:06	Peak Integrated by Software

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Instrument ID: ECD_D

Daily Analysis Runlog For Sequence/QCBatch ID # PD051925

Review By	Abdul	Review On	5/20/2025 9:04:34 AM		
Supervise By	mohammad	Supervise On	5/21/2025 5:34:48 AM		
SubDirectory	PD051925	HP Acquire Method		HP Processing Method	pd0519 8081

STD. NAME	STD REF.#
Tune/Reschk	PP24433,PP24095
Initial Calibration Stds	PP24260,PP24261,PP24262,PP24269,PP24266,PP24267,PP24268,PP24269,PP24270,PP24271,PP24272,PP24273,PP24274,PP24275,PP24277 ,PP24278,PP24279,PP24280,PP24281,PP24282,PP24283,PP24284
CCC	PP24261,PP24273,PP24279,PP24284
Internal Standard/PEM	
ICV/I.BLK	PP24273,PP24279,PP24284
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	HEXANE	PD088582.D	19 May 2025 10:36	AR\AJ	Ok
2	I.BLK	PD088583.D	19 May 2025 10:50	AR\AJ	Ok
3	PEM	PD088584.D	19 May 2025 11:04	AR\AJ	Ok,M
4	RESCHK	PD088585.D	19 May 2025 11:17	AR\AJ	Ok
5	PSTDICC100	PD088586.D	19 May 2025 11:31	AR\AJ	Ok
6	PSTDICC075	PD088587.D	19 May 2025 11:45	AR\AJ	Ok
7	PSTDICC050	PD088588.D	19 May 2025 11:58	AR\AJ	Ok
8	PSTDICC025	PD088589.D	19 May 2025 12:12	AR\AJ	Ok
9	PSTDICC005	PD088590.D	19 May 2025 12:25	AR\AJ	Ok,M
10	PCHLORICC1000	PD088591.D	19 May 2025 12:39	AR\AJ	Ok
11	PCHLORICC750	PD088592.D	19 May 2025 12:52	AR\AJ	Ok
12	PCHLORICC500	PD088593.D	19 May 2025 13:06	AR\AJ	Ok
13	PCHLORICC250	PD088594.D	19 May 2025 13:19	AR\AJ	Ok
14	PCHLORICC050	PD088595.D	19 May 2025 13:33	AR\AJ	Ok
15	PTOXICC1000	PD088596.D	19 May 2025 13:47	AR\AJ	Ok
16	PTOXICC750	PD088597.D	19 May 2025 14:00	AR\AJ	Ok
17	PTOXICC500	PD088598.D	19 May 2025 14:14	AR\AJ	Ok
18	PTOXICC250	PD088599.D	19 May 2025 14:27	AR\AJ	Ok,M
19	PTOXICC100	PD088600.D	19 May 2025 14:41	AR\AJ	Ok
20	PSTDICV050	PD088601.D	19 May 2025 14:55	AR\AJ	Ok
21	PCHLORICV500	PD088602.D	19 May 2025 15:08	AR\AJ	Ok,M

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Instrument ID: ECD_D

Daily Analysis Runlog For Sequence/QCBatch ID # PD051925

Review By	Abdul	Review On	5/20/2025 9:04:34 AM		
Supervise By	mohammad	Supervise On	5/21/2025 5:34:48 AM		
SubDirectory	PD051925	HP Acquire Method		HP Processing Method	pd0519 8081

STD. NAME	STD REF.#
Tune/Reschk	PP24433,PP24095
Initial Calibration Stds	PP24260,PP24261,PP24262,PP24269,PP24266,PP24267,PP24268,PP24269,PP24270,PP24271,PP24272,PP24273,PP24274,PP24275,PP24277 ,PP24278,PP24279,PP24280,PP24281,PP24282,PP24283,PP24284
CCC	PP24261,PP24273,PP24279,PP24284
Internal Standard/PEM	
ICV/I.BLK	PP24273,PP24279,PP24284
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	PTOXICV500	PD088603.D	19 May 2025 15:22	AR\AJ	Ok
23	I.BLK	PD088604.D	19 May 2025 15:35	AR\AJ	Ok
24	PEM	PD088605.D	19 May 2025 15:49	AR\AJ	Ok,M
25	PSTDCCC050	PD088606.D	19 May 2025 16:02	AR\AJ	Ok
26	PTOXCCC500	PD088607.D	19 May 2025 16:16	AR\AJ	Ok
27	PB167959BS	PD088608.D	19 May 2025 16:32	AR\AJ	Ok
28	Q1984-09RE	PD088609.D	19 May 2025 16:50	AR\AJ	Confirms
29	Q1984-11RE	PD088610.D	19 May 2025 17:04	AR\AJ	Confirms
30	Q1984-13RE	PD088611.D	19 May 2025 17:18	AR\AJ	Confirms
31	Q1984-15RE	PD088612.D	19 May 2025 17:31	AR\AJ	Confirms
32	I.BLK	PD088613.D	19 May 2025 17:45	AR\AJ	Ok,M
33	PSTDCCC050	PD088614.D	19 May 2025 18:45	AR\AJ	Ok,M
34	PTOXCCC500	PD088615.D	19 May 2025 19:32	AR\AJ	Ok
35	PB168066BL	PD088616.D	19 May 2025 20:26	AR\AJ	Ok
36	PB168066BS	PD088617.D	19 May 2025 20:40	AR\AJ	Not Ok
37	PB167994TB	PD088618.D	19 May 2025 20:54	AR\AJ	Ok
38	Q2014-05	PD088619.D	19 May 2025 21:08	AR\AJ	Not Ok
39	Q2027-03	PD088620.D	19 May 2025 21:21	AR\AJ	Ok,M
40	Q2027-03MS	PD088621.D	19 May 2025 21:35	AR\AJ	Ok,M
41	Q2027-03MSD	PD088622.D	19 May 2025 21:49	AR\AJ	Ok,M
42	Q2027-04	PD088623.D	19 May 2025 22:02	AR\AJ	Ok
43	Q2032-09	PD088624.D	19 May 2025 22:16	AR\AJ	Ok
44	I.BLK	PD088625.D	19 May 2025 22:30	AR\AJ	Ok

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Instrument ID: ECD_D

Daily Analysis Runlog For Sequence/QCBatch ID # PD051925

Review By	Abdul	Review On	5/20/2025 9:04:34 AM		
Supervise By	mohammad	Supervise On	5/21/2025 5:34:48 AM		
SubDirectory	PD051925	HP Acquire Method		HP Processing Method	pd0519 8081

STD. NAME	STD REF.#
Tune/Reschk	PP24433,PP24095
Initial Calibration Stds	PP24260,PP24261,PP24262,PP24269,PP24266,PP24267,PP24268,PP24269,PP24270,PP24271,PP24272,PP24273,PP24274,PP24275,PP24277 ,PP24278,PP24279,PP24280,PP24281,PP24282,PP24283,PP24284
CCC	PP24261,PP24273,PP24279,PP24284
Internal Standard/PEM	
ICV/I.BLK	PP24273,PP24279,PP24284
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

45	PSTDCCC050	PD088626.D	19 May 2025 22:43	AR\AJ	Ok

M : Manual Integration

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Instrument ID: ECD_D

Daily Analysis Runlog For Sequence/QCBatch ID # PD060925

Review By	Abdul	Review On	6/10/2025 8:35:58 AM		
Supervise By	mohammad	Supervise On	6/11/2025 2:16:06 AM		
SubDirectory	PD060925	HP Acquire Method		HP Processing Method	pd051925 8081

STD. NAME	STD REF.#
Tune/Reschk	PP24433,PP24095
Initial Calibration Stds	PP24260,PP24261,PP24262,PP24269,PP24266,PP24267,PP24268,PP24269,PP24270,PP24271,PP24272,PP24273,PP24274,PP24275,PP24277 ,PP24278,PP24279,PP24280,PP24281,PP24282,PP24283,PP24284
CCC	PP24261,PP24273,PP24279,PP24284
Internal Standard/PEM	
ICV/I.BLK	PP24273,PP24279,PP24284
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	HEXANE	PD088819.D	09 Jun 2025 08:36	AR\AJ	Ok
2	I.BLK	PD088820.D	09 Jun 2025 08:50	AR\AJ	Ok
3	PEM	PD088821.D	09 Jun 2025 10:30	AR\AJ	Ok,M
4	PSTDCCC050	PD088822.D	09 Jun 2025 10:44	AR\AJ	Ok,M
5	Q2207-09	PD088823.D	09 Jun 2025 11:04	AR\AJ	Ok
6	Q2207-18	PD088824.D	09 Jun 2025 11:18	AR\AJ	Ok
7	Q2207-27	PD088825.D	09 Jun 2025 11:31	AR\AJ	Ok
8	Q2207-36	PD088826.D	09 Jun 2025 11:45	AR\AJ	Ok
9	Q2207-45	PD088827.D	09 Jun 2025 11:59	AR\AJ	Ok
10	Q2208-09	PD088828.D	09 Jun 2025 12:12	AR\AJ	Ok
11	Q2208-18	PD088829.D	09 Jun 2025 12:26	AR\AJ	Ok
12	Q2208-27	PD088830.D	09 Jun 2025 12:40	AR\AJ	Ok
13	Q2208-36	PD088831.D	09 Jun 2025 12:53	AR\AJ	Ok
14	PB168330BL	PD088832.D	09 Jun 2025 13:14	AR\AJ	Ok
15	PB168330BS	PD088833.D	09 Jun 2025 13:28	AR\AJ	Ok
16	PB168271TB	PD088834.D	09 Jun 2025 13:44	AR\AJ	Ok
17	PB168311TB	PD088835.D	09 Jun 2025 13:58	AR\AJ	Ok
18	Q2198-02	PD088836.D	09 Jun 2025 14:11	AR\AJ	Ok
19	Q2198-04	PD088837.D	09 Jun 2025 14:25	AR\AJ	Ok
20	Q2198-04MS	PD088838.D	09 Jun 2025 14:39	AR\AJ	Ok,M
21	Q2198-04MSD	PD088839.D	09 Jun 2025 14:53	AR\AJ	Ok,M

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Instrument ID: ECD_D

Daily Analysis Runlog For Sequence/QCBatch ID # PD060925

Review By	Abdul	Review On	6/10/2025 8:35:58 AM		
Supervise By	mohammad	Supervise On	6/11/2025 2:16:06 AM		
SubDirectory	PD060925	HP Acquire Method		HP Processing Method	pd051925 8081

STD. NAME	STD REF.#
Tune/Reschk	PP24433,PP24095
Initial Calibration Stds	PP24260,PP24261,PP24262,PP24269,PP24266,PP24267,PP24268,PP24269,PP24270,PP24271,PP24272,PP24273,PP24274,PP24275,PP24277 ,PP24278,PP24279,PP24280,PP24281,PP24282,PP24283,PP24284
CCC	PP24261,PP24273,PP24279,PP24284
Internal Standard/PEM	
ICV/I.BLK	PP24273,PP24279,PP24284
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	I.BLK	PD088840.D	09 Jun 2025 15:30	AR\AJ	Ok
23	PSTDCCC050	PD088841.D	09 Jun 2025 15:44	AR\AJ	Ok,M
24	PB168363BL	PD088842.D	09 Jun 2025 16:20	AR\AJ	Ok
25	PB168363BS	PD088843.D	09 Jun 2025 16:34	AR\AJ	Ok
26	PB168333TB	PD088844.D	09 Jun 2025 16:47	AR\AJ	Ok
27	Q2137-05	PD088845.D	09 Jun 2025 17:01	AR\AJ	Ok,M
28	Q2137-05MS	PD088846.D	09 Jun 2025 17:15	AR\AJ	Ok,M
29	Q2137-05MSD	PD088847.D	09 Jun 2025 17:28	AR\AJ	Ok,M
30	Q2262-02	PD088848.D	09 Jun 2025 17:42	AR\AJ	Ok
31	Q2262-04	PD088849.D	09 Jun 2025 17:56	AR\AJ	Ok
32	I.BLK	PD088850.D	09 Jun 2025 18:09	AR\AJ	Ok
33	PSTDCCC050	PD088851.D	09 Jun 2025 18:23	AR\AJ	Ok,M

M : Manual Integration

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Instrument ID: ECD_D

Daily Analysis Runlog For Sequence/QCBatch ID # PD051925

Review By	Abdul	Review On	5/20/2025 9:04:34 AM		
Supervise By	mohammad	Supervise On	5/21/2025 5:34:48 AM		
SubDirectory	PD051925	HP Acquire Method		HP Processing Method	pd0519 8081

STD. NAME	STD REF.#
Tune/Reschk	PP24433,PP24095
Initial Calibration Stds	PP24260,PP24261,PP24262,PP24269,PP24266,PP24267,PP24268,PP24269,PP24270,PP24271,PP24272,PP24273,PP24274,PP24275,PP24277,PP24278,PP24279,PP24280,PP24281,PP24282,PP24283,PP24284
CCC	PP24261,PP24273,PP24279,PP24284
Internal Standard/PEM	
ICV/I.BLK	PP24273,PP24279,PP24284
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	HEXANE	HEXANE	PD088582.D	19 May 2025 10:36		AR\AJ	Ok
2	I.BLK	I.BLK	PD088583.D	19 May 2025 10:50		AR\AJ	Ok
3	PEM	PEM	PD088584.D	19 May 2025 11:04		AR\AJ	Ok,M
4	RESCHK	RESCHK	PD088585.D	19 May 2025 11:17		AR\AJ	Ok
5	PSTDICC100	PSTDICC100	PD088586.D	19 May 2025 11:31		AR\AJ	Ok
6	PSTDICC075	PSTDICC075	PD088587.D	19 May 2025 11:45		AR\AJ	Ok
7	PSTDICC050	PSTDICC050	PD088588.D	19 May 2025 11:58		AR\AJ	Ok
8	PSTDICC025	PSTDICC025	PD088589.D	19 May 2025 12:12		AR\AJ	Ok
9	PSTDICC005	PSTDICC005	PD088590.D	19 May 2025 12:25		AR\AJ	Ok,M
10	PCHLORICC1000	PCHLORICC1000	PD088591.D	19 May 2025 12:39		AR\AJ	Ok
11	PCHLORICC750	PCHLORICC750	PD088592.D	19 May 2025 12:52		AR\AJ	Ok
12	PCHLORICC500	PCHLORICC500	PD088593.D	19 May 2025 13:06		AR\AJ	Ok
13	PCHLORICC250	PCHLORICC250	PD088594.D	19 May 2025 13:19		AR\AJ	Ok
14	PCHLORICC050	PCHLORICC050	PD088595.D	19 May 2025 13:33		AR\AJ	Ok
15	PTOXICC1000	PTOXICC1000	PD088596.D	19 May 2025 13:47		AR\AJ	Ok
16	PTOXICC750	PTOXICC750	PD088597.D	19 May 2025 14:00		AR\AJ	Ok
17	PTOXICC500	PTOXICC500	PD088598.D	19 May 2025 14:14		AR\AJ	Ok
18	PTOXICC250	PTOXICC250	PD088599.D	19 May 2025 14:27		AR\AJ	Ok,M

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Instrument ID: ECD_D

Daily Analysis Runlog For Sequence/QCBatch ID # PD051925

Review By	Abdul	Review On	5/20/2025 9:04:34 AM		
Supervise By	mohammad	Supervise On	5/21/2025 5:34:48 AM		
SubDirectory	PD051925	HP Acquire Method		HP Processing Method	pd0519 8081

STD. NAME	STD REF.#
Tune/Reschk	PP24433,PP24095
Initial Calibration Stds	PP24260,PP24261,PP24262,PP24269,PP24266,PP24267,PP24268,PP24269,PP24270,PP24271,PP24272,PP24273,PP24274,PP24275,PP24277,PP24278,PP24279,PP24280,PP24281,PP24282,PP24283,PP24284
CCC	PP24261,PP24273,PP24279,PP24284
Internal Standard/PEM	
ICV/I.BLK	PP24273,PP24279,PP24284
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	PTOXICC100	PTOXICC100	PD088600.D	19 May 2025 14:41		AR\AJ	Ok
20	PSTDICV050	ICVPD051925	PD088601.D	19 May 2025 14:55		AR\AJ	Ok
21	PCHLORICV500	ICVPD051925CHLOR	PD088602.D	19 May 2025 15:08		AR\AJ	Ok,M
22	PTOXICV500	ICVPD051925TOX	PD088603.D	19 May 2025 15:22		AR\AJ	Ok
23	I.BLK	I.BLK	PD088604.D	19 May 2025 15:35		AR\AJ	Ok
24	PEM	PEM	PD088605.D	19 May 2025 15:49		AR\AJ	Ok,M
25	PSTDCCC050	PSTDCCC050	PD088606.D	19 May 2025 16:02		AR\AJ	Ok
26	PTOXCCC500	PTOXCCC500	PD088607.D	19 May 2025 16:16		AR\AJ	Ok
27	PB167959BS	PB167959BS	PD088608.D	19 May 2025 16:32	TOX BS	AR\AJ	Ok
28	Q1984-09RE	OU4-TS-25-050725RE	PD088609.D	19 May 2025 16:50	DCB Low in both column	AR\AJ	Confirms
29	Q1984-11RE	OU4-TS-26-050725RE	PD088610.D	19 May 2025 17:04	DCB Low in both column	AR\AJ	Confirms
30	Q1984-13RE	OU4-TS-27-050725RE	PD088611.D	19 May 2025 17:18	DCB Low in both column	AR\AJ	Confirms
31	Q1984-15RE	OU4-TS-28-050725RE	PD088612.D	19 May 2025 17:31	DCB Low in both column	AR\AJ	Confirms
32	I.BLK	I.BLK	PD088613.D	19 May 2025 17:45		AR\AJ	Ok,M
33	PSTDCCC050	PSTDCCC050	PD088614.D	19 May 2025 18:45		AR\AJ	Ok,M
34	PTOXCCC500	PTOXCCC500	PD088615.D	19 May 2025 19:32		AR\AJ	Ok
35	PB168066BL	PB168066BL	PD088616.D	19 May 2025 20:26		AR\AJ	Ok
36	PB168066BS	PB168066BS	PD088617.D	19 May 2025 20:40	Recovery fail for comp # 17 & 20	AR\AJ	Not Ok
37	PB167994TB	PB167994TB	PD088618.D	19 May 2025 20:54		AR\AJ	Ok

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Instrument ID: ECD_D

Daily Analysis Runlog For Sequence/QCBatch ID # PD051925

Review By	Abdul	Review On	5/20/2025 9:04:34 AM		
Supervise By	mohammad	Supervise On	5/21/2025 5:34:48 AM		
SubDirectory	PD051925	HP Acquire Method		HP Processing Method	pd0519 8081

STD. NAME	STD REF.#
Tune/Reschk	PP24433,PP24095
Initial Calibration Stds	PP24260,PP24261,PP24262,PP24269,PP24266,PP24267,PP24268,PP24269,PP24270,PP24271,PP24272,PP24273,PP24274,PP24275,PP24277,PP24278,PP24279,PP24280,PP24281,PP24282,PP24283,PP24284
CCC	PP24261,PP24273,PP24279,PP24284
Internal Standard/PEM	
ICV/I.BLK	PP24273,PP24279,PP24284
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

38	Q2014-05	MOO-25-0148	PD088619.D	19 May 2025 21:08	TCMX having F flag in both column, already run	AR\AJ	Not Ok
39	Q2027-03	B27-SOIL-SAMPLE	PD088620.D	19 May 2025 21:21		AR\AJ	Ok,M
40	Q2027-03MS	B27-SOIL-SAMPLEMS	PD088621.D	19 May 2025 21:35		AR\AJ	Ok,M
41	Q2027-03MSD	B27-SOIL-SAMPLEMS	PD088622.D	19 May 2025 21:49		AR\AJ	Ok,M
42	Q2027-04	B28-SOIL-SAMPLE	PD088623.D	19 May 2025 22:02		AR\AJ	Ok
43	Q2032-09	COMP-1	PD088624.D	19 May 2025 22:16		AR\AJ	Ok
44	I.BLK	I.BLK	PD088625.D	19 May 2025 22:30		AR\AJ	Ok
45	PSTDCCC050	PSTDCCC050	PD088626.D	19 May 2025 22:43		AR\AJ	Ok

M : Manual Integration

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Instrument ID: ECD_D

Daily Analysis Runlog For Sequence/QCBatch ID # PD060925

Review By	Abdul	Review On	6/10/2025 8:35:58 AM		
Supervise By	mohammad	Supervise On	6/11/2025 2:16:06 AM		
SubDirectory	PD060925	HP Acquire Method		HP Processing Method	pd051925 8081

STD. NAME	STD REF.#
Tune/Reschk	PP24433,PP24095
Initial Calibration Stds	PP24260,PP24261,PP24262,PP24269,PP24266,PP24267,PP24268,PP24269,PP24270,PP24271,PP24272,PP24273,PP24274,PP24275,PP24277,PP24278,PP24279,PP24280,PP24281,PP24282,PP24283,PP24284
CCC	PP24261,PP24273,PP24279,PP24284
Internal Standard/PEM	
ICV/I.BLK	PP24273,PP24279,PP24284
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	HEXANE	HEXANE	PD088819.D	09 Jun 2025 08:36		AR\AJ	Ok
2	I.BLK	I.BLK	PD088820.D	09 Jun 2025 08:50		AR\AJ	Ok
3	PEM	PEM	PD088821.D	09 Jun 2025 10:30		AR\AJ	Ok,M
4	PSTDCCC050	PSTDCCC050	PD088822.D	09 Jun 2025 10:44		AR\AJ	Ok,M
5	Q2207-09	BU-703-COMP-01	PD088823.D	09 Jun 2025 11:04		AR\AJ	Ok
6	Q2207-18	BU-703-COMP-02	PD088824.D	09 Jun 2025 11:18		AR\AJ	Ok
7	Q2207-27	BU-703-COMP-03	PD088825.D	09 Jun 2025 11:31		AR\AJ	Ok
8	Q2207-36	BU-703-COMP-04	PD088826.D	09 Jun 2025 11:45		AR\AJ	Ok
9	Q2207-45	BU-703-COMP-05	PD088827.D	09 Jun 2025 11:59		AR\AJ	Ok
10	Q2208-09	BU-703-COMP-06	PD088828.D	09 Jun 2025 12:12		AR\AJ	Ok
11	Q2208-18	BU-703-COMP-07	PD088829.D	09 Jun 2025 12:26		AR\AJ	Ok
12	Q2208-27	BU-703-COMP-08	PD088830.D	09 Jun 2025 12:40		AR\AJ	Ok
13	Q2208-36	BU-703-COMP-09	PD088831.D	09 Jun 2025 12:53		AR\AJ	Ok
14	PB168330BL	PB168330BL	PD088832.D	09 Jun 2025 13:14		AR\AJ	Ok
15	PB168330BS	PB168330BS	PD088833.D	09 Jun 2025 13:28		AR\AJ	Ok
16	PB168271TB	PB168271TB	PD088834.D	09 Jun 2025 13:44		AR\AJ	Ok
17	PB168311TB	PB168311TB	PD088835.D	09 Jun 2025 13:58		AR\AJ	Ok
18	Q2198-02	B-202-SB02	PD088836.D	09 Jun 2025 14:11		AR\AJ	Ok

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Instrument ID: ECD_D

Daily Analysis Runlog For Sequence/QCBatch ID # PD060925

Review By	Abdul	Review On	6/10/2025 8:35:58 AM		
Supervise By	mohammad	Supervise On	6/11/2025 2:16:06 AM		
SubDirectory	PD060925	HP Acquire Method		HP Processing Method	pd051925 8081

STD. NAME	STD REF.#
Tune/Reschk	PP24433,PP24095
Initial Calibration Stds	PP24260,PP24261,PP24262,PP24269,PP24266,PP24267,PP24268,PP24269,PP24270,PP24271,PP24272,PP24273,PP24274,PP24275,PP24277,PP24278,PP24279,PP24280,PP24281,PP24282,PP24283,PP24284
CCC	PP24261,PP24273,PP24279,PP24284
Internal Standard/PEM	
ICV/I.BLK	PP24273,PP24279,PP24284
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	Q2198-04	B-207-SB02	PD088837.D	09 Jun 2025 14:25		AR\AJ	Ok
20	Q2198-04MS	B-207-SB02MS	PD088838.D	09 Jun 2025 14:39		AR\AJ	Ok,M
21	Q2198-04MSD	B-207-SB02MSD	PD088839.D	09 Jun 2025 14:53		AR\AJ	Ok,M
22	I.BLK	I.BLK	PD088840.D	09 Jun 2025 15:30		AR\AJ	Ok
23	PSTDCCC050	PSTDCCC050	PD088841.D	09 Jun 2025 15:44		AR\AJ	Ok,M
24	PB168363BL	PB168363BL	PD088842.D	09 Jun 2025 16:20		AR\AJ	Ok
25	PB168363BS	PB168363BS	PD088843.D	09 Jun 2025 16:34		AR\AJ	Ok
26	PB168333TB	PB168333TB	PD088844.D	09 Jun 2025 16:47		AR\AJ	Ok
27	Q2137-05	MOO-25-0151	PD088845.D	09 Jun 2025 17:01		AR\AJ	Ok,M
28	Q2137-05MS	MOO-25-0151MS	PD088846.D	09 Jun 2025 17:15	Coming Flag due to matrix interference and no need to run again.	AR\AJ	Ok,M
29	Q2137-05MSD	MOO-25-0151MSD	PD088847.D	09 Jun 2025 17:28	Coming Flag due to matrix interference and no need to run again.	AR\AJ	Ok,M
30	Q2262-02	ARS20-0032	PD088848.D	09 Jun 2025 17:42		AR\AJ	Ok
31	Q2262-04	ARS20-0001	PD088849.D	09 Jun 2025 17:56		AR\AJ	Ok
32	I.BLK	I.BLK	PD088850.D	09 Jun 2025 18:09		AR\AJ	Ok
33	PSTDCCC050	PSTDCCC050	PD088851.D	09 Jun 2025 18:23		AR\AJ	Ok,M

M : Manual Integration

Alliance TECHNICAL GROUP

TCLP EXTRACTION LOGPAGE

PB168271

SOP ID : M1311-TCLP-16

SDG No : N/A

Weigh By : JP

Balance ID : WC SC-7

pH Meter ID : WC PH METER-1

Extraction By : JP

Filter By : JP

Pippete ID : WC

Tumbler ID : T-1 / T-2

TCLP Filter ID : 115525

Start Prep Date : 06/04/2025 **Time :** 15:00

End Prep Date : 06/05/2025 **Time :** 09:20

Combination Ratio : 20

ZHE Cleaning Batch : 10 N/A

Initial Room Temperature: 24 °C

Final Room Temperature: 22 °C

TCLP Technician Signature : JP

Supervisor By : JP

Standared Name	MLS USED	STD REF. # FROM LOG
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Chemical Used	ML/SAMPLE U	Lot Number
TCLP-FLUID-1	N/A	WP112795
HCL-TCLP,1N	N/A	WP112797
HNO3-TCLP,1N	N/A	WP112799
pH Strips	N/A	W1931,W1934,W3171,W3172
pH Strips	W1940,W1941,W1942	W3166,W1938,W1939,
1 Liter Amber	N/A	90924-08
120ml Plastic bottle	N/A	2738
1:1 HNO3	N/A	MP84041

Extraction Conformance/Non-Conformance Comments:

Matrix spikes are added after fiftration and before preservation. TUMBLER T-1 /T-2 checked,30 rpm. q2208-36 is used for MS-MSD.

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
06/05/25 11:30	JP ICP ROOM	JP RS TEXT
	Preparation Group	Analysis Group 06/11/25

Alliance TECHNICAL GROUP

TCLP EXTRACTION LOGPAGE

PB168271

Sample ID	ClientID	TCLP Vessel ID	Sample Wt (g)	Volume Extraction Fluid #1 (mL)	Multi phasic	Phase Miscible	Phases Combined	Final Leachate PH	Metals Leachate Adj. PH	Prep Pos
PB168271TB	LEB271	16	N/A	2000	N/A	N/A	N/A	4.94	1.0	T-2
Q2192-01	SB-1	01	100.02	2000	N/A	N/A	N/A	8.2	1.0	T-1
Q2194-02	COMP-12	02	100.03	2000	N/A	N/A	N/A	6.2	1.5	T-1
Q2194-04	COMP-13	03	100.02	2000	N/A	N/A	N/A	6.0	1.5	T-1
Q2198-02	B-202-SB02	04	100.03	2000	N/A	N/A	N/A	4.0	1.0	T-1
Q2198-04	~~B-207-SB01~~ B-207-SB02	05	100.02	2000	N/A	N/A	N/A	5.8	1.5	T-1
Q2206-04	TP-1 SB	06	100.02	2000	N/A	N/A	N/A	5.6	1.0	T-1
Q2207-09	BU-703-COMP-01 06-11-	07	100.03	2000	N/A	N/A	N/A	4.5	1.5	T-1
Q2207-18	BU-703-COMP-02 2025	08	100.04	2000	N/A	N/A	N/A	3.0	1.0	T-1
Q2207-27	BU-703-COMP-03	09	100.02	2000	N/A	N/A	N/A	3.0	1.5	T-1
Q2207-36	BU-703-COMP-04	10	100.03	2000	N/A	N/A	N/A	5.5	1.0	T-1
Q2207-45	BU-703-COMP-05	11	100.02	2000	N/A	N/A	N/A	3.0	1.5	T-2
Q2208-09	BU-703-COMP-06	12	100.03	2000	N/A	N/A	N/A	3.0	1.0	T-2
Q2208-18	BU-703-COMP-07	13	100.02	2000	N/A	N/A	N/A	3.0	1.5	T-2
Q2208-27	BU-703-COMP-08	14	100.01	2000	N/A	N/A	N/A	5.0	1.5	T-2
Q2208-36	BU-703-COMP-09	15	100.02	2000	N/A	N/A	N/A	5.6	1.0	T-2

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TCLP Solid Determination

PB168271

SampleID	ClientID	Sample Weight (g)	Filter Weight (g)	Filtrate (mL)	Filter + Solid (After 100°C)	% solids	% Dry Solids
PB168271TB	LEB271	N/A	N/A	N/A	N/A	N/A	N/A
Q2192-01	SB-1	N/A	N/A	N/A	N/A	100	N/A
Q2194-02	COMP-12	N/A	N/A	N/A	N/A	100	N/A
Q2194-04	COMP-13	N/A	N/A	N/A	N/A	100	N/A
Q2198-02	B-202-SB02	N/A	N/A	N/A	N/A	100	N/A
Q2198-04	~~B-207-SB01~~ B-207-SB02	N/A	N/A	N/A	N/A	100	N/A
Q2206-04	TP-1	N/A	N/A	N/A	N/A	100	N/A
Q2207-09	BU-703-COMP-01	N/A	N/A	N/A	N/A	100	N/A
Q2207-18	BU-703-COMP-02	N/A	N/A	N/A	N/A	100	N/A
Q2207-27	BU-703-COMP-03	N/A	N/A	N/A	N/A	100	N/A
Q2207-36	BU-703-COMP-04	N/A	N/A	N/A	N/A	100	N/A
Q2207-45	BU-703-COMP-05	N/A	N/A	N/A	N/A	100	N/A
Q2208-09	BU-703-COMP-06	N/A	N/A	N/A	N/A	100	N/A
Q2208-18	BU-703-COMP-07	N/A	N/A	N/A	N/A	100	N/A
Q2208-27	BU-703-COMP-08	N/A	N/A	N/A	N/A	100	N/A
Q2208-36	BU-703-COMP-09	N/A	N/A	N/A	N/A	100	N/A

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TCLP Fluid Determination

PB168271

Hot Block ID : WC S-1 / WC S-2

Thermometer ID : FLASHPOINT

SampleID	ClientID	Sample Weight (g)	Volume DI Water (mL)	PH after 5 min stir	PH after 10 min stir	Extraction Fluid 1 or 2	pH Extraction Fluid
PB168271TB	LEB271	N/A	N/A	N/A	N/A	#1	4.94
Q2192-01	SB-1	5.02	96.5	9.5	4.0	#1	4.94
Q2194-02	COMP-12	5.03	96.5	8.4	3.5	#1	4.94
Q2194-04	COMP-13	5.02	96.5	8.2	3.5	#1	4.94
Q2198-02	B-202-SB02	5.02	96.5	6.6	2.5	#1	4.94
Q2198-04	~~B-207-SB~~01 B-207-SB02	5.03	96.5	8.0	3.0	#1	4.94
Q2206-04	TP-1 TP	5.02	96.5	7.6	2.5	#1	4.94
Q2207-09	BU-703-COMP-01	5.03	96.5	7.0	2.0	#1	4.94
Q2207-18	BU-703-COMP-02 06-11-2025	5.02	96.5	5.5	1.5	#1	4.94
Q2207-27	BU-703-COMP-03	5.01	96.5	6.0	2.0	#1	4.94
Q2207-36	BU-703-COMP-04	5.02	96.5	7.2	2.0	#1	4.94
Q2207-45	BU-703-COMP-05	5.03	96.5	5.5	1.5	#1	4.94
Q2208-09	BU-703-COMP-06	5.02	96.5	5.6	2.0	#1	4.94
Q2208-18	BU-703-COMP-07	5.03	96.5	5.5	1.5	#1	4.94
Q2208-27	BU-703-COMP-08	5.02	96.5	6.0	2.0	#1	4.94
Q2208-36	BU-703-COMP-09	5.01	96.5	7.0	2.5	#1	4.94

Q2198

WORKLIST(Hardcopy Internal Chain)

WorkList Name : TCLP Q2198 **WorkList ID :** 189914 **Department :** TCLP Extraction **Date :** 06-04-2025 09:51:15

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2192-01	SB-1	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	L21	06/03/2025	1311
Q2194-02	COMP-12	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	L31	06/03/2025	1311
Q2194-04	COMP-13	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	L31	06/03/2025	1311
Q2198-02	B-202-SB02	Solid	TCLP Extraction	Cool 4 deg C	PORT06	N22	05/31/2025	1311
Q2198-04	~~B-207-SB01~~ B-207-SB02	Solid	TCLP Extraction	Cool 4 deg C	PORT06	N22	06/01/2025	1311
Q2206-04	TP-1	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	N31	06/04/2025	1311
Q2207-09	BU-703-COMP-01	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	N31	06/02/2025	1311
Q2207-18	BU-703-COMP-02	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	N31	06/02/2025	1311
Q2207-27	BU-703-COMP-03	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	N31	06/02/2025	1311
Q2207-36	BU-703-COMP-04	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	N31	06/02/2025	1311
Q2207-45	BU-703-COMP-05	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	N31	06/02/2025	1311
Q2208-09	BU-703-COMP-06	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	N31	06/02/2025	1311
Q2208-18	BU-703-COMP-07	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	N31	06/02/2025	1311
Q2208-27	BU-703-COMP-08	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	N31	06/02/2025	1311
Q2208-36	BU-703-COMP-09	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	N31	06/02/2025	1311

862 of 1607

Date/Time 06/04/25 12:.00

Raw Sample Received by:

Raw Sample Relinquished by:

Date/Time 06/04/25 17:30

Raw Sample Received by:

Raw Sample Relinquished by:

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PB168330

SOP ID:	M3510C,3580A-Extraction Pesticide-16				
Clean Up SOP #:	N/A			**Extraction Start Date :**	06/06/2025
Matrix :	Water			**Extraction Start Time :**	12:32
Weigh By:	N/A	**Extraction By:**	RS	**Extraction End Date :**	06/06/2025
Balance check:	N/A	**Filter By:**	RJ	**Extraction End Time :**	17:10
Balance ID:	N/A	**pH Meter ID:**	N/A	**Concentration By:**	EH
pH Strip Lot#:	E3880	**Hood ID:**	4,5,6,7	**Supervisor By :**	RUPESH

Extraction Method: [√] Seperatory Funnel [ ] Continious Liquid/Liquid [ ] Sonication [ ] Waste Dilution [ ] Soxhlet

Standared Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Spike Sol 1	1.0ML	500 PPB	PP24285
Surrogate	1.0ML	200 PPB	PP24597
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
Methylene Chloride	N/A	E3939
Baked Na2SO4	N/A	EP2620
Hexane	N/A	E3938
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

40 ML Vial lot# 03-40 BTS723.

KD Bath ID:	WATER BATH-1,2	**Envap ID:**	NEVAP-02
KD Bath Temperature:	60 °C	**Envap Temperature:**	40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
6/6/25	RS (BS4 Lab)	R. Patel / PCB Lab
17:15	**Preparation Group**	**Analysis Group**

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PrepBatch ID : PB168330

Analytical Method: M3510C,3580A-Extraction Pesticide-16

Concentration Date: 06/06/2025

Sample ID	Client Sample ID	Test	g /mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB168271TB	PB168271TB	TCLP Pesticide	100	6	RUPESH	ritesh	10			SEP-1
PB168311TB	PB168311TB	TCLP Pesticide	100	6	RUPESH	ritesh	10			2
PB168330BL	PBLK330	TCLP Pesticide	1000	6	RUPESH	ritesh	10			3
PB168330BS	PLCS330	TCLP Pesticide	1000	6	RUPESH	ritesh	10			4
Q2198-02	B-202-SB02	TCLP Pesticide	100	6	RUPESH	ritesh	10	A		5
Q2198-04	B-207-SB02	TCLP Pesticide	100	6	RUPESH	ritesh	10	A		6
Q2198-04MS	B-207-SB02MS	TCLP Pesticide	100	6	RUPESH	ritesh	10	A		7
Q2198-04MSD	B-207-SB02MSD	TCLP Pesticide	100	6	RUPESH	ritesh	10	A		8
Q2207-09	BU-703-COMP-01	TCLP Pesticide	100	6	RUPESH	ritesh	10	A		9
Q2207-18	BU-703-COMP-02	TCLP Pesticide	100	6	RUPESH	ritesh	10	A		10
Q2207-27	BU-703-COMP-03	TCLP Pesticide	100	6	RUPESH	ritesh	10	A		11
Q2207-36	BU-703-COMP-04	TCLP Pesticide	100	6	RUPESH	ritesh	10	A		12
Q2207-45	BU-703-COMP-05	TCLP Pesticide	100	6	RUPESH	ritesh	10	A		13
Q2208-09	BU-703-COMP-06	TCLP Pesticide	100	6	RUPESH	ritesh	10	A		14
Q2208-18	BU-703-COMP-07	TCLP Pesticide	100	6	RUPESH	ritesh	10	A		15
Q2208-27	BU-703-COMP-08	TCLP Pesticide	100	6	RUPESH	ritesh	10	A		16
Q2208-36	BU-703-COMP-09	TCLP Pesticide	100	6	RUPESH	ritesh	10	A		SEP-1
Q2235-03	WC-A2-08-C	TCLP Pesticide	100	6	RUPESH	ritesh	10	A		2
Q2236-03	WC-A4-05A-C	TCLP Pesticide	100	6	RUPESH	ritesh	10	A		3
Q2236-07	WC-A2-04-C	TCLP Pesticide	100	6	RUPESH	ritesh	10	A		4
Q2236-11	WC-A2-05-C	TCLP Pesticide	100	6	RUPESH	ritesh	10	A		5
Q2236-15	WC-A2-06-C	TCLP Pesticide	100	6	RUPESH	ritesh	10	A		6
Q2236-19	WC-A2-07-C	TCLP Pesticide	100	6	RUPESH	ritesh	10	A		7

6/6

* **Extracts relinquished on the same date as received.**

Alliance TECHNICAL GROUP

TCLP EXTRACTION LOGPAGE

PB168271

Sample ID	ClientID	TCLP Vessel ID	Sample Wt (g)	Volume Extraction Fluid #1 (mL)	Multi phasic	Phase Miscible	Phases Combined	Final Leachate PH	Metals Leachate Adj. PH	Prep Pos
PB168271TB	LEB271	16	N/A	2000	N/A	N/A	N/A	4.94	1.0	T-2
Q2192-01	SB-1	01	100.02	2000	N/A	N/A	N/A	8.2	1.0	T-1
Q2194-02	COMP-12	02	100.03	2000	N/A	N/A	N/A	6.2	1.5	T-1
Q2194-04	COMP-13	03	100.02	2000	N/A	N/A	N/A	6.0	1.5	T-1
Q2198-02	B-202-SB02	04	100.03	2000	N/A	N/A	N/A	4.0	1.0	T-1
Q2198-04	B-207-SB01	05	100.02	2000	N/A	N/A	N/A	5.8	1.5	T-1
Q2206-04	TP-1	06	100.02	2000	N/A	N/A	N/A	5.6	1.0	T-1
Q2207-09	BU-703-COMP-01	07	100.03	2000	N/A	N/A	N/A	4.5	1.5	T-1
Q2207-18	BU-703-COMP-02	08	100.04	2000	N/A	N/A	N/A	3.0	1.0	T-1
Q2207-27	BU-703-COMP-03	09	100.02	2000	N/A	N/A	N/A	3.0	1.5	T-1
Q2207-36	BU-703-COMP-04	10	100.03	2000	N/A	N/A	N/A	5.5	1.0	T-1
Q2207-45	BU-703-COMP-05	11	100.02	2000	N/A	N/A	N/A	3.0	1.5	T-2
Q2208-09	BU-703-COMP-06	12	100.03	2000	N/A	N/A	N/A	3.0	1.0	T-2
Q2208-18	BU-703-COMP-07	13	100.02	2000	N/A	N/A	N/A	3.0	1.5	T-2
Q2208-27	BU-703-COMP-08	14	100.01	2000	N/A	N/A	N/A	5.0	1.5	T-2
Q2208-36	BU-703-COMP-09	15	100.02	2000	N/A	N/A	N/A	5.6	1.0	T-2

06/05/25
11.30

Alliance TECHNICAL GROUP

TCLP EXTRACTION LOGPAGE

PB168311

Sample ID	ClientID	TCLP Vessel ID	Sample Wt (g)	Volume Extraction Fluid #1 (mL)	Multi phasic	Phase Miscible	Phases Combined	Final Leachate PH	Metals Leachate Adj. PH	Prep Pos
PB168311TB	LEB311	16	N/A	2000	N/A	N/A	N/A	4.93	1.0	T-2
Q2226-04	TP06-MHI-WC	01	100.02	2000	N/A	N/A	N/A	4.0	1.0	T-1
Q2227-04	TP07-MHH-WC	02	100.03	2000	N/A	N/A	N/A	3.0	1.5	T-1
Q2228-04	TP08-MHI-WC	03	100.02	2000	N/A	N/A	N/A	3.0	1.0	T-1
Q2235-03	WC-A2-08-C	04	100.01	2000	N/A	N/A	N/A	12.0	1.5	T-1
Q2236-03	WC-A4-05A-C	05	100.02	2000	N/A	N/A	N/A	12.0	1.0	T-1
Q2236-07	WC-A2-04-C	06	100.03	2000	N/A	N/A	N/A	12.0	1.5	T-1
Q2236-11	WC-A2-05-C	07	100.00	2000	N/A	N/A	N/A	12.0	1.0	T-1
Q2236-15	WC-A2-06-C	08	100.01	2000	N/A	N/A	N/A	11.5	1.5	T-1
Q2236-19	WC-A2-07-C	09	100.02	2000	N/A	N/A	N/A	11.5	1.0	T-1
Q2240-04	TP-3	10	100.03	2000	N/A	N/A	N/A	7.2	1.5	T-1
Q2240-08	TP-2	11	100.02	2000	N/A	N/A	N/A	7.0	1.0	T-2
Q2240-12	TP-1	12	100.02	2000	N/A	N/A	N/A	7.0	1.0	T-2
Q2241-04	TP-N	13	100.04	2000	N/A	N/A	N/A	6.2	1.5	T-2
Q2241-08	TP-S	14	100.02	2000	N/A	N/A	N/A	7.0	1.0	T-2
Q2242-04	TP09-MHJ	15	100.01	2000	N/A	N/A	N/A	3.0	1.5	T-2

06106125

11:30

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LAB CHRONICLE

OrderID:	Q2198	**OrderDate:**	6/3/2025 2:31:00 PM
Client:	Portal Partners Tri-Venture	**Project:**	Amtrak Sawtooth Bridges 2025
Contact:	Joseph Krupansky	**Location:**	N22,VOA Ref. #2 Soil,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2198-02	**B-202-SB02**	**TCLP**			**05/31/25**			**06/03/25**
			TCLP Herbicide	8151A		06/06/25	06/09/25	
			TCLP Pesticide	8081B		06/06/25	06/09/25	
Q2198-04	**B-207-SB02**	**TCLP**			**06/01/25**			**06/03/25**
			TCLP Herbicide	8151A		06/06/25	06/09/25	
			TCLP Pesticide	8081B		06/06/25	06/09/25	

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Hit Summary Sheet
SW-846

SDG No.: Q2198 **Order ID:** Q2198

Client: Portal Partners Tri-Venture **Project ID:** Amtrak Sawtooth Bridges 2025

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units

Client ID :

Total Concentration: **0.000**

SAMPLE DATA

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	06/06/25
Client Sample ID:	PB168271TB	SDG No.:	Q2198
Lab Sample ID:	PB168271TB	Matrix:	TCLP
Analytical Method:	8151A	% Solid:	0 Decanted:
Sample Wt/Vol:	100 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	TCLP Herbicide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	8151A		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS030557.D	1	06/06/25 11:45	06/07/25 03:14	PB168329

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
94-75-7	2,4-D	9.20	U	9.20	20.0	ug/L
93-72-1	2,4,5-TP (Silvex)	7.80	U	7.80	20.0	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	439		70 (61) - 130 (136)	88%	SPK: 500

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	05/31/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	06/03/25
Client Sample ID:	B-202-SB02	SDG No.:	Q2198
Lab Sample ID:	Q2198-02	Matrix:	TCLP
Analytical Method:	8151A	% Solid:	0 Decanted:
Sample Wt/Vol:	100 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	TCLP Herbicide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	8151A		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS030570.D	1	06/06/25 11:45	06/09/25 15:46	PB168329

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
94-75-7	2,4-D	9.20	U	9.20	20.0	ug/L
93-72-1	2,4,5-TP (Silvex)	7.80	U	7.80	20.0	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	486		70 (61) - 130 (136)	97%	SPK: 500

Comments:

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MDL = Method Detection Limit
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S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	06/01/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	06/03/25
Client Sample ID:	B-207-SB02	SDG No.:	Q2198
Lab Sample ID:	Q2198-04	Matrix:	TCLP
Analytical Method:	8151A	% Solid:	0 Decanted:
Sample Wt/Vol:	100 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	TCLP Herbicide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	8151A		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS030571.D	1	06/06/25 11:45	06/09/25 16:10	PB168329

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
94-75-7	2,4-D	9.20	U	9.20	20.0	ug/L
93-72-1	2,4,5-TP (Silvex)	7.80	U	7.80	20.0	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	571		70 (61) - 130 (136)	114%	SPK: 500

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
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Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

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B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

QC SUMMARY

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Surrogate Summary

SDG No.: Q2198

Client: Portal Partners Tri-Venture

Analytical Method: 8151A

Lab Sample ID	Client ID	Parameter	Column	Spike	Result	Rec	Qual	Limits Low	Limits High
I.BLK-PS030475.D	PIBLK-PS030475.D	2,4-DCAA	1	500	414	83		70 (61)	130 (136)
		2,4-DCAA	2	500	445	89		70 (61)	130 (136)
I.BLK-PS030534.D	PIBLK-PS030534.D	2,4-DCAA	1	500	455	91		70 (61)	130 (136)
		2,4-DCAA	2	500	469	94		70 (61)	130 (136)
PB168329BL	PB168329BL	2,4-DCAA	1	500	425	85		70 (61)	130 (136)
		2,4-DCAA	2	500	484	97		70 (61)	130 (136)
PB168329BS	PB168329BS	2,4-DCAA	1	500	523	105		70 (61)	130 (136)
		2,4-DCAA	2	500	506	101		70 (61)	130 (136)
I.BLK-PS030546.D	PIBLK-PS030546.D	2,4-DCAA	1	500	454	91		70 (61)	130 (136)
		2,4-DCAA	2	500	474	95		70 (61)	130 (136)
PB168271TB	PB168271TB	2,4-DCAA	1	500	439	88		70 (61)	130 (136)
		2,4-DCAA	2	500	436	87		70 (61)	130 (136)
I.BLK-PS030559.D	PIBLK-PS030559.D	2,4-DCAA	1	500	458	92		70 (61)	130 (136)
		2,4-DCAA	2	500	474	95		70 (61)	130 (136)
I.BLK-PS030562.D	PIBLK-PS030562.D	2,4-DCAA	1	500	433	87		70 (61)	130 (136)
		2,4-DCAA	2	500	447	89		70 (61)	130 (136)
Q2198-02	B-202-SB02	2,4-DCAA	1	500	486	97		70 (61)	130 (136)
		2,4-DCAA	2	500	463	93		70 (61)	130 (136)
Q2198-04	B-207-SB02	2,4-DCAA	1	500	571	114		70 (61)	130 (136)
		2,4-DCAA	2	500	517	103		70 (61)	130 (136)
Q2198-04MS	B-207-SB02MS	2,4-DCAA	1	500	614	123		70 (61)	130 (136)
		2,4-DCAA	2	500	531	106		70 (61)	130 (136)
Q2198-04MSD	B-207-SB02MSD	2,4-DCAA	1	500	625	125		70 (61)	130 (136)
		2,4-DCAA	2	500	543	109		70 (61)	130 (136)
I.BLK-PS030574.D	PIBLK-PS030574.D	2,4-DCAA	1	500	437	87		70 (61)	130 (136)
		2,4-DCAA	2	500	454	91		70 (61)	130 (136)

( ) = LABORATORY INHOUSE LIMIT

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q2198 **Analytical Method:** 8151A

Client: Portal Partners Tri-Venture **DataFile :** PS030572.D

Lab Sample ID:	Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	Limits RPD
Client Sample ID:	**B-207-SB02MS**											
Q2198-04MS (Column 1)	2,4-D	50	0	49.9	ug/L	100				70 (65)	130 (135)	
	2,4,5-TP(Silvex)	50	0	49.4	ug/L	99				70 (62)	130 (139)	
Client Sample ID:	**B-207-SB02MS**											
Q2198-04MS (Column 2)	2,4-D	50	0	48.0	ug/L	96				70 (65)	130 (135)	
	2,4,5-TP(Silvex)	50	0	50.1	ug/L	100				70 (62)	130 (139)	

( ) = LABORATORY INHOUSE LIMIT

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q2198 **Analytical Method:** 8151A

Client: Portal Partners Tri-Venture **DataFile :** PS030573.D

Lab Sample ID:	Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	Limits RPD
Client Sample ID:	**B-207-SB02MSD**											
Q2198-04MSD (Column 1)	2,4-D	50	0	49.5	ug/L	99		1		70 (65)	130 (135)	20 (20)
	2,4,5-TP(Silvex)	50	0	49.0	ug/L	98		1		70 (62)	130 (139)	20 (20)
Client Sample ID:	**B-207-SB02MSD**											
Q2198-04MSD (Column 2)	2,4-D	50	0	44.7	ug/L	89		8		70 (65)	130 (135)	20 (20)
	2,4,5-TP(Silvex)	50	0	49.9	ug/L	100		0		70 (62)	130 (139)	20 (20)

( ) = LABORATORY INHOUSE LIMIT

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2198 **Analytical Method:** 8151A

Client: Portal Partners Tri-Venture **Datafile :** PS030545.D

Lab Sample ID	Parameter	Spike	Result	Units	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB168329BS (Column 1)	2,4-D	5	4.70	ug/L	94				70 (83)	130 (130)	
	2,4,5-TP(Silvex)	5	5.00	ug/L	100				70 (78)	130 (127)	
PB168329BS (Column 2)	2,4-D	5	5.10	ug/L	102				70 (83)	130 (130)	
	2,4,5-TP(Silvex)	5	4.90	ug/L	98				70 (78)	130 (127)	

( ) = LABORATORY INHOUSE LIMIT

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Fax : 908 789 8922

4C

PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB168329BL

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q2198 SAS No.: Q2198 SDG NO.: Q2198

Lab Sample ID: PB168329BL Lab File ID: PS030544.D

Matrix: (soil/water) water Extraction: (Type) SEPF

Sulfur Cleanup: (Y/N) N Date Extracted: 06/06/2025

Date Analyzed (1): 06/06/2025 Date Analyzed (2): 06/06/2025

Time Analyzed (1): 22:00 Time Analyzed (2): 22:00

Instrument ID (1): ECD_S Instrument ID (2): ECD_S

GC Column (1): RTX-CLP ID: 0.32 (mm) GC Column (2): RTX-CLP2 ID: 0.32 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED 1	DATE ANALYZED 2
PB168329BS	PB168329BS	PS030545.D	06/06/2025	06/06/2025
PB168271TB	PB168271TB	PS030557.D	06/07/2025	06/07/2025
B-202-SB02	Q2198-02	PS030570.D	06/09/2025	06/09/2025
B-207-SB02	Q2198-04	PS030571.D	06/09/2025	06/09/2025
B-207-SB02MS	Q2198-04MS	PS030572.D	06/09/2025	06/09/2025
B-207-SB02MSD	Q2198-04MSD	PS030573.D	06/09/2025	06/09/2025

COMMENTS:

QC SAMPLE DATA

Alliance TECHNICAL GROUP
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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB168329BL	SDG No.:	Q2198
Lab Sample ID:	PB168329BL	Matrix:	TCLP
Analytical Method:	8151A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	TCLP Herbicide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS030544.D	1	06/06/25 11:45	06/06/25 22:00	PB168329

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
94-75-7	2,4-D	0.92	U	0.92	2.00	ug/L
93-72-1	2,4,5-TP (Silvex)	0.78	U	0.78	2.00	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	484		70 (61) - 130 (136)	97%	SPK: 500

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	06/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	06/04/25
Client Sample ID:	PIBLK-PS030475.D	SDG No.:	Q2198
Lab Sample ID:	I.BLK-PS030475.D	Matrix:	TCLP
Analytical Method:	8151A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	TCLP Herbicide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS030475.D	1		06/04/25	PS060425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
94-75-7	2,4-D	0.92	U	0.92	2.00	ug/L
93-72-1	2,4,5-TP (Silvex)	0.78	U	0.78	2.00	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	445		70 (61) - 130 (136)	89%	SPK: 500

Comments:

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	06/06/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	06/06/25
Client Sample ID:	PIBLK-PS030534.D	SDG No.:	Q2198
Lab Sample ID:	I.BLK-PS030534.D	Matrix:	TCLP
Analytical Method:	8151A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	TCLP Herbicide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS030534.D	1		06/06/25	ps060625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
94-75-7	2,4-D	0.92	U	0.92	2.00	ug/L
93-72-1	2,4,5-TP (Silvex)	0.78	U	0.78	2.00	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	469		70 (61) - 130 (136)	94%	SPK: 500

Comments:

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Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	06/06/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	06/06/25
Client Sample ID:	PIBLK-PS030546.D	SDG No.:	Q2198
Lab Sample ID:	I.BLK-PS030546.D	Matrix:	TCLP
Analytical Method:	8151A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	TCLP Herbicide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS030546.D	1		06/06/25	ps060625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
94-75-7	2,4-D	0.92	U	0.92	2.00	ug/L
93-72-1	2,4,5-TP (Silvex)	0.78	U	0.78	2.00	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	474		70 (61) - 130 (136)	95%	SPK: 500

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	06/07/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	06/07/25
Client Sample ID:	PIBLK-PS030559.D	SDG No.:	Q2198
Lab Sample ID:	I.BLK-PS030559.D	Matrix:	TCLP
Analytical Method:	8151A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	TCLP Herbicide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS030559.D	1		06/07/25	ps060625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
94-75-7	2,4-D	0.92	U	0.92	2.00	ug/L
93-72-1	2,4,5-TP (Silvex)	0.78	U	0.78	2.00	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	474		70 (61) - 130 (136)	95%	SPK: 500

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	06/09/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	06/09/25
Client Sample ID:	PIBLK-PS030562.D	SDG No.:	Q2198
Lab Sample ID:	I.BLK-PS030562.D	Matrix:	TCLP
Analytical Method:	8151A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	TCLP Herbicide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS030562.D	1		06/09/25	ps060925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
94-75-7	2,4-D	0.92	U	0.92	2.00	ug/L
93-72-1	2,4,5-TP (Silvex)	0.78	U	0.78	2.00	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	447		70 (61) - 130 (136)	89%	SPK: 500

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	06/09/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	06/09/25
Client Sample ID:	PIBLK-PS030574.D	SDG No.:	Q2198
Lab Sample ID:	I.BLK-PS030574.D	Matrix:	TCLP
Analytical Method:	8151A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	TCLP Herbicide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS030574.D	1		06/09/25	ps060925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
94-75-7	2,4-D	0.92	U	0.92	2.00	ug/L
93-72-1	2,4,5-TP (Silvex)	0.78	U	0.78	2.00	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	454		70 (61) - 130 (136)	91%	SPK: 500

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB168329BS	SDG No.:	Q2198
Lab Sample ID:	PB168329BS	Matrix:	TCLP
Analytical Method:	8151A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	TCLP Herbicide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS030545.D	1	06/06/25 11:45	06/06/25 22:24	PB168329

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
94-75-7	2,4-D	5.10		0.92	2.00	ug/L
93-72-1	2,4,5-TP (Silvex)	5.00		0.78	2.00	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	523		70 (61) - 130 (136)	105%	SPK: 500

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	06/01/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	06/03/25
Client Sample ID:	B-207-SB02MS	SDG No.:	Q2198
Lab Sample ID:	Q2198-04MS	Matrix:	TCLP
Analytical Method:	8151A	% Solid:	0 Decanted:
Sample Wt/Vol:	100 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	TCLP Herbicide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS030572.D	1	06/06/25 11:45	06/09/25 16:34	PB168329

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
94-75-7	2,4-D	49.9		9.20	20.0	ug/L
93-72-1	2,4,5-TP (Silvex)	50.1		7.80	20.0	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	614		70 (61) - 130 (136)	123%	SPK: 500

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	06/01/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	06/03/25
Client Sample ID:	B-207-SB02MSD	SDG No.:	Q2198
Lab Sample ID:	Q2198-04MSD	Matrix:	TCLP
Analytical Method:	8151A	% Solid:	0 Decanted:
Sample Wt/Vol:	100 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	TCLP Herbicide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS030573.D	1	06/06/25 11:45	06/09/25 16:58	PB168329

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
94-75-7	2,4-D	49.5		9.20	20.0	ug/L
93-72-1	2,4,5-TP (Silvex)	49.9		7.80	20.0	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	625		70 (61) - 130 (136)	125%	SPK: 500

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

CALIBRATION SUMMARY

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RETENTION TIMES OF INITIAL CALIBRATION

Contract: PORT06

Lab Code: CHEM **Case No.:** Q2198 **SAS No.:** Q2198 **SDG NO.:** Q2198

Instrument ID: ECD_S **Calibration Date(s):** 06/04/2025 06/04/2025

Calibration Times: 11:19 12:55

GC Column: RTX-CLP ID: 0.32 (mm)

LAB FILE ID: RT 200 = PS030476.D RT 500 = PS030477.D

RT 750 = PS030478.D RT 1000 = PS030479.D RT 1500 = PS030480.D

COMPOUND	RT 200	RT 500	RT 750	RT 1000	RT 1500	MEAN RT	RT WINDOW FROM	RT WINDOW TO
2,4,5-TP(Silvex)	9.40	9.40	9.40	9.40	9.40	9.40	9.30	9.50
2,4-D	8.51	8.51	8.51	8.51	8.51	8.51	8.41	8.61
2,4-DCAA	7.37	7.37	7.37	7.37	7.37	7.37	7.27	7.47

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RETENTION TIMES OF INITIAL CALIBRATION

Contract: PORT06

Lab Code: CHEM **Case No.:** Q2198 **SAS No.:** Q2198 **SDG NO.:** Q2198

Instrument ID: ECD_S **Calibration Date(s):** 06/04/2025 06/04/2025

Calibration Times: 11:19 12:55

GC Column: RTX-CLP2 ID: 0.32 (mm)

LAB FILE ID: RT 200 = PS030476.D RT 500 = PS030477.D

RT 750 = PS030478.D RT 1000 = PS030479.D RT 1500 = PS030480.D

COMPOUND	RT 200	RT 500	RT 750	RT 1000	RT 1500	MEAN RT	RT WINDOW FROM	RT WINDOW TO
2,4,5-TP(Silvex)	9.94	9.94	9.94	9.94	9.94	9.94	9.84	10.04
2,4-D	9.03	9.03	9.03	9.04	9.04	9.03	8.93	9.13
2,4-DCAA	7.77	7.77	7.77	7.77	7.77	7.77	7.67	7.87

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CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: PORT06

Lab Code: CHEM **Case No.:** Q2198 **SAS No.:** Q2198 **SDG NO.:** Q2198

Instrument ID: ECD_S **Calibration Date(s):** 06/04/2025 06/04/2025

Calibration Times: 11:19 12:55

GC Column: RTX-CLP **ID:** 0.32 **(mm)**

LAB FILE ID: **CF 200 =** PS030476.D **CF 500 =** PS030477.D

CF 750 = PS030478.D **CF 1000 =** PS030479.D **CF 1500 =** PS030480.D

COMPOUND	CF 200	CF 500	CF 750	CF 1000	CF 1500	CF	% RSD
2,4,5-TP(Silvex)	23444500000	20930200000	20252400000	19918900000	18779400000	20665100000	8
2,4-D	4208920000	3650560000	3531620000	3494410000	3332550000	3643610000	9
2,4-DCAA	4505990000	3745160000	3587820000	3627070000	3409690000	3775150000	11

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CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: PORT06

Lab Code: CHEM **Case No.:** Q2198 **SAS No.:** Q2198 **SDG NO.:** Q2198

Instrument ID: ECD_S **Calibration Date(s):** 06/04/2025 06/04/2025

Calibration Times: 11:19 12:55

GC Column: RTX-CLP2 **ID:** 0.32 **(mm)**

LAB FILE ID: **CF 200 =** PS030476.D **CF 500 =** PS030477.D

CF 750 = PS030478.D **CF 1000 =** PS030479.D **CF 1500 =** PS030480.D

COMPOUND	CF 200	CF 500	CF 750	CF 1000	CF 1500	CF	% RSD
2,4,5-TP(Silvex)	15627400000	13837500000	13337200000	13203400000	12578300000	13716700000	8
2,4-D	1858730000	1575260000	1504430000	1488570000	1434610000	1572320000	11
2,4-DCAA	1341960000	1066160000	1011260000	997042000	961634000	1075610000	14

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q2198 **SAS No.:** Q2198 **SDG NO.:** Q2198

Continuing Calib Date: 06/06/2025 **Initial Calibration Date(s):** 06/04/2025 06/04/2025

Continuing Calib Time: 12:31 **Initial Calibration Time(s):** 11:19 12:55

GC Column: RTX-CLP **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
2,4-DCAA	7.36	7.37	7.27	7.47	0.01
2,4-D	8.50	8.51	8.41	8.61	0.01
2,4,5-TP(Silvex)	9.39	9.40	9.30	9.50	0.01

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q2198 **SAS No.:** Q2198 **SDG NO.:** Q2198

Continuing Calib Date: 06/06/2025 **Initial Calibration Date(s):** 06/04/2025 06/04/2025

Continuing Calib Time: 12:31 **Initial Calibration Time(s):** 11:19 12:55

GC Column: RTX-CLP2 **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
2,4-DCAA	7.77	7.77	7.67	7.87	0.00
2,4-D	9.03	9.03	8.93	9.13	0.00
2,4,5-TP(Silvex)	9.94	9.94	9.84	10.04	0.00

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q2198 **SAS No.:** Q2198 **SDG NO.:** Q2198

GC Column: RTX-CLP **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 06/04/2025 06/04/2025

Client Sample No.: CCAL01 **Date Analyzed:** 06/06/2025

Lab Sample No.: HSTDCCC750 **Data File :** PS030535.D **Time Analyzed:** 12:31

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-TP(Silvex)	9.394	9.304	9.504	753.080	712.500	5.7
2,4-D	8.503	8.412	8.612	714.810	705.000	1.4
2,4-DCAA	7.363	7.269	7.469	763.970	750.000	1.9

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q2198 **SAS No.:** Q2198 **SDG NO.:** Q2198

GC Column: RTX-CLP2 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 06/04/2025 06/04/2025

Client Sample No.: CCAL01 **Date Analyzed:** 06/06/2025

Lab Sample No.: HSTDCCC750 **Data File :** PS030535.D **Time Analyzed:** 12:31

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-TP(Silvex)	9.938	9.842	10.042	736.850	712.500	3.4
2,4-D	9.030	8.934	9.134	743.830	705.000	5.5
2,4-DCAA	7.771	7.674	7.874	734.990	750.000	-2.0

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q2198 **SAS No.:** Q2198 **SDG NO.:** Q2198

Continuing Calib Date: 06/06/2025 **Initial Calibration Date(s):** 06/04/2025 06/04/2025

Continuing Calib Time: 23:12 **Initial Calibration Time(s):** 11:19 12:55

GC Column: RTX-CLP **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
2,4-DCAA	7.36	7.37	7.27	7.47	0.01
2,4-D	8.50	8.51	8.41	8.61	0.01
2,4,5-TP(Silvex)	9.39	9.40	9.30	9.50	0.01

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q2198 **SAS No.:** Q2198 **SDG NO.:** Q2198

Continuing Calib Date: 06/06/2025 **Initial Calibration Date(s):** 06/04/2025 06/04/2025

Continuing Calib Time: 23:12 **Initial Calibration Time(s):** 11:19 12:55

GC Column: RTX-CLP2 **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
2,4-DCAA	7.77	7.77	7.67	7.87	0.00
2,4-D	9.03	9.03	8.93	9.13	0.00
2,4,5-TP(Silvex)	9.94	9.94	9.84	10.04	0.00

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q2198 **SAS No.:** Q2198 **SDG NO.:** Q2198

GC Column: RTX-CLP **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 06/04/2025 06/04/2025

Client Sample No.: CCAL02 **Date Analyzed:** 06/06/2025

Lab Sample No.: HSTDCCC750 **Data File :** PS030547.D **Time Analyzed:** 23:12

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-TP(Silvex)	9.394	9.304	9.504	737.410	712.500	3.5
2,4-D	8.503	8.412	8.612	703.020	705.000	-0.3
2,4-DCAA	7.362	7.269	7.469	735.100	750.000	-2.0

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q2198 **SAS No.:** Q2198 **SDG NO.:** Q2198

GC Column: RTX-CLP2 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 06/04/2025 06/04/2025

Client Sample No.: CCAL02 **Date Analyzed:** 06/06/2025

Lab Sample No.: HSTDCCC750 **Data File :** PS030547.D **Time Analyzed:** 23:12

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-TP(Silvex)	9.937	9.842	10.042	729.380	712.500	2.4
2,4-D	9.030	8.934	9.134	716.460	705.000	1.6
2,4-DCAA	7.771	7.674	7.874	730.020	750.000	-2.7

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q2198 **SAS No.:** Q2198 **SDG NO.:** Q2198

Continuing Calib Date: 06/07/2025 **Initial Calibration Date(s):** 06/04/2025 06/04/2025

Continuing Calib Time: 04:26 **Initial Calibration Time(s):** 11:19 12:55

GC Column: RTX-CLP **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
2,4-DCAA	7.36	7.37	7.27	7.47	0.01
2,4-D	8.50	8.51	8.41	8.61	0.01
2,4,5-TP(Silvex)	9.39	9.40	9.30	9.50	0.01

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Fax : 908 789 8922

CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q2198 **SAS No.:** Q2198 **SDG NO.:** Q2198

Continuing Calib Date: 06/07/2025 **Initial Calibration Date(s):** 06/04/2025 06/04/2025

Continuing Calib Time: 04:26 **Initial Calibration Time(s):** 11:19 12:55

GC Column: RTX-CLP2 **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
2,4-DCAA	7.77	7.77	7.67	7.87	0.00
2,4-D	9.03	9.03	8.93	9.13	0.00
2,4,5-TP(Silvex)	9.94	9.94	9.84	10.04	0.00

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q2198 **SAS No.:** Q2198 **SDG NO.:** Q2198

GC Column: RTX-CLP **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 06/04/2025 06/04/2025

Client Sample No.: CCAL03 **Date Analyzed:** 06/07/2025

Lab Sample No.: HSTDCCC750 **Data File :** PS030560.D **Time Analyzed:** 04:26

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-TP(Silvex)	9.393	9.304	9.504	746.690	712.500	4.8
2,4-D	8.502	8.412	8.612	721.770	705.000	2.4
2,4-DCAA	7.362	7.269	7.469	759.650	750.000	1.3

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q2198 **SAS No.:** Q2198 **SDG NO.:** Q2198

GC Column: RTX-CLP2 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 06/04/2025 06/04/2025

Client Sample No.: CCAL03 **Date Analyzed:** 06/07/2025

Lab Sample No.: HSTDCCC750 **Data File :** PS030560.D **Time Analyzed:** 04:26

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-TP(Silvex)	9.938	9.842	10.042	736.020	712.500	3.3
2,4-D	9.030	8.934	9.134	754.140	705.000	7.0
2,4-DCAA	7.771	7.674	7.874	744.090	750.000	-0.8

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q2198 **SAS No.:** Q2198 **SDG NO.:** Q2198

Continuing Calib Date: 06/09/2025 **Initial Calibration Date(s):** 06/04/2025 06/04/2025

Continuing Calib Time: 12:17 **Initial Calibration Time(s):** 11:19 12:55

GC Column: RTX-CLP **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
2,4-DCAA	7.36	7.37	7.27	7.47	0.01
2,4-D	8.50	8.51	8.41	8.61	0.01
2,4,5-TP(Silvex)	9.39	9.40	9.30	9.50	0.01

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Fax : 908 789 8922

CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q2198 **SAS No.:** Q2198 **SDG NO.:** Q2198

Continuing Calib Date: 06/09/2025 **Initial Calibration Date(s):** 06/04/2025 06/04/2025

Continuing Calib Time: 12:17 **Initial Calibration Time(s):** 11:19 12:55

GC Column: RTX-CLP2 **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
2,4-DCAA	7.77	7.77	7.67	7.87	0.00
2,4-D	9.03	9.03	8.93	9.13	0.00
2,4,5-TP(Silvex)	9.94	9.94	9.84	10.04	0.00

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q2198 **SAS No.:** Q2198 **SDG NO.:** Q2198

GC Column: RTX-CLP **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 06/04/2025 06/04/2025

Client Sample No.: CCAL04 **Date Analyzed:** 06/09/2025

Lab Sample No.: HSTDCCC750 **Data File :** PS030563.D **Time Analyzed:** 12:17

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-TP(Silvex)	9.391	9.304	9.504	699.960	712.500	-1.8
2,4-D	8.502	8.412	8.612	652.640	705.000	-7.4
2,4-DCAA	7.361	7.269	7.469	717.390	750.000	-4.3

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q2198 **SAS No.:** Q2198 **SDG NO.:** Q2198

GC Column: RTX-CLP2 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 06/04/2025 06/04/2025

Client Sample No.: CCAL04 **Date Analyzed:** 06/09/2025

Lab Sample No.: HSTDCCC750 **Data File :** PS030563.D **Time Analyzed:** 12:17

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-TP(Silvex)	9.936	9.842	10.042	692.700	712.500	-2.8
2,4-D	9.029	8.934	9.134	671.090	705.000	-4.8
2,4-DCAA	7.770	7.674	7.874	688.320	750.000	-8.2

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q2198 **SAS No.:** Q2198 **SDG NO.:** Q2198

Continuing Calib Date: 06/09/2025 **Initial Calibration Date(s):** 06/04/2025 06/04/2025

Continuing Calib Time: 17:46 **Initial Calibration Time(s):** 11:19 12:55

GC Column: RTX-CLP **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
2,4-DCAA	7.36	7.37	7.27	7.47	0.01
2,4-D	8.50	8.51	8.41	8.61	0.01
2,4,5-TP(Silvex)	9.39	9.40	9.30	9.50	0.01

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Fax : 908 789 8922

CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q2198 **SAS No.:** Q2198 **SDG NO.:** Q2198

Continuing Calib Date: 06/09/2025 **Initial Calibration Date(s):** 06/04/2025 06/04/2025

Continuing Calib Time: 17:46 **Initial Calibration Time(s):** 11:19 12:55

GC Column: RTX-CLP2 **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
2,4-DCAA	7.77	7.77	7.67	7.87	0.00
2,4-D	9.03	9.03	8.93	9.13	0.00
2,4,5-TP(Silvex)	9.94	9.94	9.84	10.04	0.00

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q2198 **SAS No.:** Q2198 **SDG NO.:** Q2198

GC Column: RTX-CLP **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 06/04/2025 06/04/2025

Client Sample No.: CCAL05 **Date Analyzed:** 06/09/2025

Lab Sample No.: HSTDCCC750 **Data File :** PS030575.D **Time Analyzed:** 17:46

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-TP(Silvex)	9.390	9.304	9.504	721.350	712.500	1.2
2,4-D	8.500	8.412	8.612	682.250	705.000	-3.2
2,4-DCAA	7.360	7.269	7.469	740.450	750.000	-1.3

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q2198 **SAS No.:** Q2198 **SDG NO.:** Q2198

GC Column: RTX-CLP2 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 06/04/2025 06/04/2025

Client Sample No.: CCAL05 **Date Analyzed:** 06/09/2025

Lab Sample No.: HSTDCCC750 **Data File :** PS030575.D **Time Analyzed:** 17:46

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-TP(Silvex)	9.935	9.842	10.042	715.680	712.500	0.4
2,4-D	9.028	8.934	9.134	699.240	705.000	-0.8
2,4-DCAA	7.769	7.674	7.874	720.580	750.000	-3.9

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Analytical Sequence

Client: Portal Partners Tri-Venture **SDG No.:** Q2198

Project: Amtrak Sawtooth Bridges 2025 **Instrument ID:** ECD_S

GC Column: RTX-CLP **ID:** 0.32 (mm) **Inst. Calib. Date(s):** 06/04/2025 06/04/2025

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	DATAFILE	DCAA RT #	RT #
I.BLK	I.BLK	06/04/2025	10:55	PS030475.D	7.37	0.00
HSTDICC200	HSTDICC200	06/04/2025	11:19	PS030476.D	7.37	0.00
HSTDICC500	HSTDICC500	06/04/2025	11:43	PS030477.D	7.37	0.00
HSTDICC750	HSTDICC750	06/04/2025	12:07	PS030478.D	7.37	0.00
HSTDICC1000	HSTDICC1000	06/04/2025	12:31	PS030479.D	7.37	0.00
HSTDICC1500	HSTDICC1500	06/04/2025	12:55	PS030480.D	7.37	0.00
I.BLK	I.BLK	06/06/2025	12:07	PS030534.D	7.36	0.00
HSTDCCC750	HSTDCCC750	06/06/2025	12:31	PS030535.D	7.36	0.00
PB168329BL	PB168329BL	06/06/2025	22:00	PS030544.D	7.36	0.00
PB168329BS	PB168329BS	06/06/2025	22:24	PS030545.D	7.36	0.00
I.BLK	I.BLK	06/06/2025	22:48	PS030546.D	7.36	0.00
HSTDCCC750	HSTDCCC750	06/06/2025	23:12	PS030547.D	7.36	0.00
PB168271TB	PB168271TB	06/07/2025	03:14	PS030557.D	7.36	0.00
I.BLK	I.BLK	06/07/2025	04:02	PS030559.D	7.36	0.00
HSTDCCC750	HSTDCCC750	06/07/2025	04:26	PS030560.D	7.36	0.00
I.BLK	I.BLK	06/09/2025	11:53	PS030562.D	7.36	0.00
HSTDCCC750	HSTDCCC750	06/09/2025	12:17	PS030563.D	7.36	0.00
B-202-SB02	Q2198-02	06/09/2025	15:46	PS030570.D	7.36	0.00
B-207-SB02	Q2198-04	06/09/2025	16:10	PS030571.D	7.36	0.00
B-207-SB02MS	Q2198-04MS	06/09/2025	16:34	PS030572.D	7.36	0.00
B-207-SB02MSD	Q2198-04MSD	06/09/2025	16:58	PS030573.D	7.36	0.00
I.BLK	I.BLK	06/09/2025	17:22	PS030574.D	7.36	0.00
HSTDCCC750	HSTDCCC750	06/09/2025	17:46	PS030575.D	7.36	0.00

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Analytical Sequence

Client: Portal Partners Tri-Venture **SDG No.:** Q2198

Project: Amtrak Sawtooth Bridges 2025 **Instrument ID:** ECD_S

GC Column: RTX-CLP2 **ID:** 0.32 (mm) **Inst. Calib. Date(s):** 06/04/2025 06/04/2025

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	DATAFILE	DCAA RT #	RT #
I.BLK	I.BLK	06/04/2025	10:55	PS030475.D	7.77	0.00
HSTDICC200	HSTDICC200	06/04/2025	11:19	PS030476.D	7.77	0.00
HSTDICC500	HSTDICC500	06/04/2025	11:43	PS030477.D	7.77	0.00
HSTDICC750	HSTDICC750	06/04/2025	12:07	PS030478.D	7.77	0.00
HSTDICC1000	HSTDICC1000	06/04/2025	12:31	PS030479.D	7.77	0.00
HSTDICC1500	HSTDICC1500	06/04/2025	12:55	PS030480.D	7.77	0.00
I.BLK	I.BLK	06/06/2025	12:07	PS030534.D	7.77	0.00
HSTDCCC750	HSTDCCC750	06/06/2025	12:31	PS030535.D	7.77	0.00
PB168329BL	PB168329BL	06/06/2025	22:00	PS030544.D	7.77	0.00
PB168329BS	PB168329BS	06/06/2025	22:24	PS030545.D	7.77	0.00
I.BLK	I.BLK	06/06/2025	22:48	PS030546.D	7.77	0.00
HSTDCCC750	HSTDCCC750	06/06/2025	23:12	PS030547.D	7.77	0.00
PB168271TB	PB168271TB	06/07/2025	03:14	PS030557.D	7.77	0.00
I.BLK	I.BLK	06/07/2025	04:02	PS030559.D	7.77	0.00
HSTDCCC750	HSTDCCC750	06/07/2025	04:26	PS030560.D	7.77	0.00
I.BLK	I.BLK	06/09/2025	11:53	PS030562.D	7.77	0.00
HSTDCCC750	HSTDCCC750	06/09/2025	12:17	PS030563.D	7.77	0.00
B-202-SB02	Q2198-02	06/09/2025	15:46	PS030570.D	7.77	0.00
B-207-SB02	Q2198-04	06/09/2025	16:10	PS030571.D	7.77	0.00
B-207-SB02MS	Q2198-04MS	06/09/2025	16:34	PS030572.D	7.77	0.00
B-207-SB02MSD	Q2198-04MSD	06/09/2025	16:58	PS030573.D	7.77	0.00
I.BLK	I.BLK	06/09/2025	17:22	PS030574.D	7.77	0.00
HSTDCCC750	HSTDCCC750	06/09/2025	17:46	PS030575.D	7.77	0.00

Alliance TECHNICAL GROUP
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COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

B-207-SB02MS

Contract: PORT06

Lab Code: CHEM **Case No.:** Q2198 **SAS No.:** Q2198 **SDG NO.:** Q2198

Lab Sample ID: Q2198-04MS **Date(s) Analyzed:** 06/09/2025 06/09/2025

Instrument ID (1): ECD_S **Instrument ID (2):** ECD_S

GC Column: (1): RTX-CLP **ID:** 0.32 (mm) **GC Column:(2):** RTX-CLP2 **ID:** 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%RPD
2,4-D	1	8.50	8.45	8.55	49.9	3.9
	2	9.03	8.98	9.08	48.0	
2,4,5-TP(Silvex)	1	9.39	9.34	9.44	49.4	1.4
	2	9.94	9.89	9.99	50.1	

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Fax : 908 789 8922

COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

B-207-SB02MSD

Contract: PORT06

Lab Code: CHEM **Case No.:** Q2198 **SAS No.:** Q2198 **SDG NO.:** Q2198

Lab Sample ID: Q2198-04MSD **Date(s) Analyzed:** 06/09/2025 06/09/2025

Instrument ID (1): ECD_S **Instrument ID (2):** ECD_S

GC Column: (1): RTX-CLP **ID:** 0.32 (mm) **GC Column:(2):** RTX-CLP2 **ID:** 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%RPD
2,4-D	1	8.50	8.45	8.55	49.5	10.2
	2	9.03	8.98	9.08	44.7	
2,4,5-TP(Silvex)	1	9.39	9.34	9.44	49.0	1.8
	2	9.94	9.89	9.99	49.9	

Alliance TECHNICAL GROUP
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Fax : 908 789 8922

COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

PB168329BS

Contract: PORT06

Lab Code: CHEM **Case No.:** Q2198 **SAS No.:** Q2198 **SDG NO.:** Q2198

Lab Sample ID: PB168329BS **Date(s) Analyzed:** 06/06/2025 06/06/2025

Instrument ID (1): ECD_S **Instrument ID (2):** ECD_S

GC Column: (1): RTX-CLP **ID:** 0.32 (mm) **GC Column:(2):** RTX-CLP2 **ID:** 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%RPD
2,4-D	1	8.50	8.45	8.55	4.70	8.2
	2	9.03	8.98	9.08	5.10	
2,4,5-TP(Silvex)	1	9.39	9.34	9.44	5.00	2
	2	9.94	9.89	9.99	4.90	

SAMPLE RAW DATA

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS060625\
Data File : PS030557.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 07 Jun 2025 03:14
Operator : AR\AJ
Sample : PB168271TB
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
PB168271TB

Manual Integrations APPROVED

Reviewed By :Abdul Mirza 06/09/2025
Supervised By :mohammad ahmed 06/10/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 07 04:47:58 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS060425.M
Quant Title : 8080.M
QLast Update : Wed Jun 04 13:21:22 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
4) S	2,4-DCAA	7.362	7.770	1658.9E6	469.3E6	439.440	436.316m
	Target Compounds						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

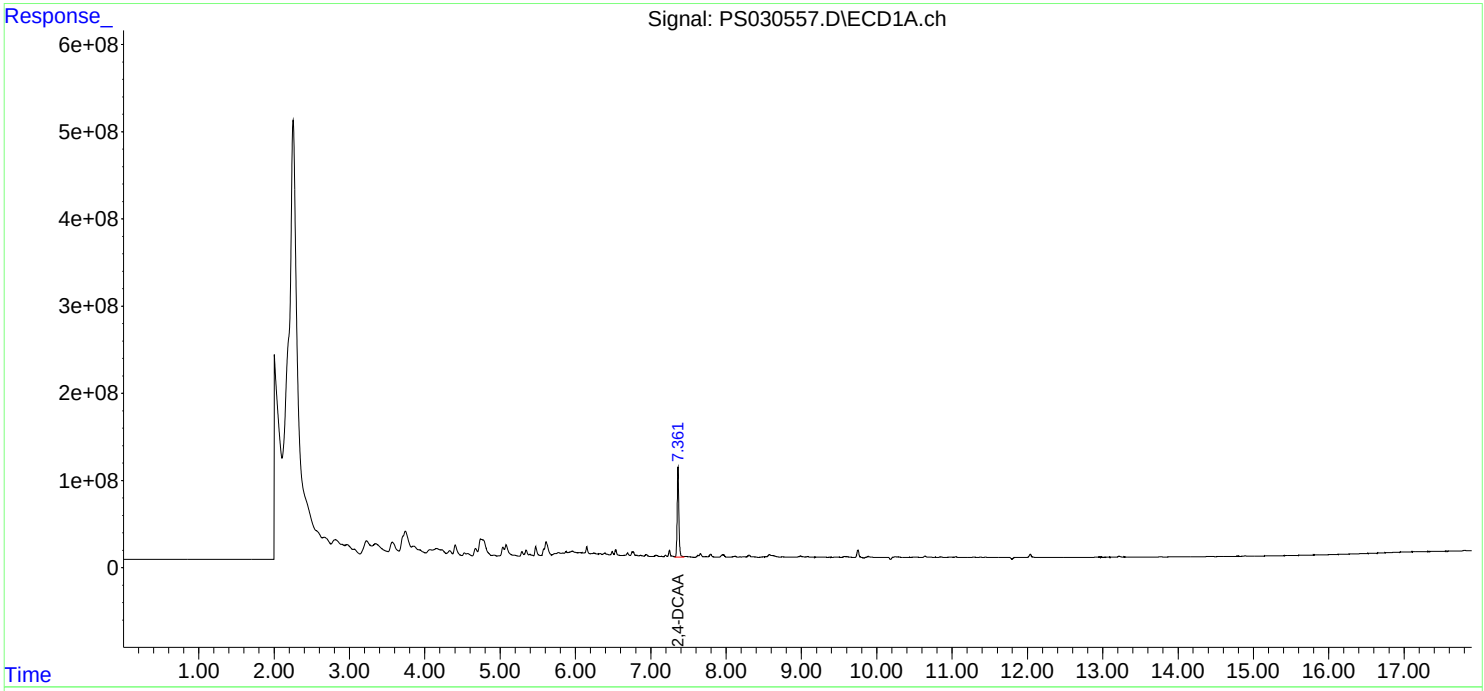
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS060625\
Data File : PS030557.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 07 Jun 2025 03:14
Operator : AR\AJ
Sample : PB168271TB
Misc :
ALS Vial : 23 Sample Multiplier: 1

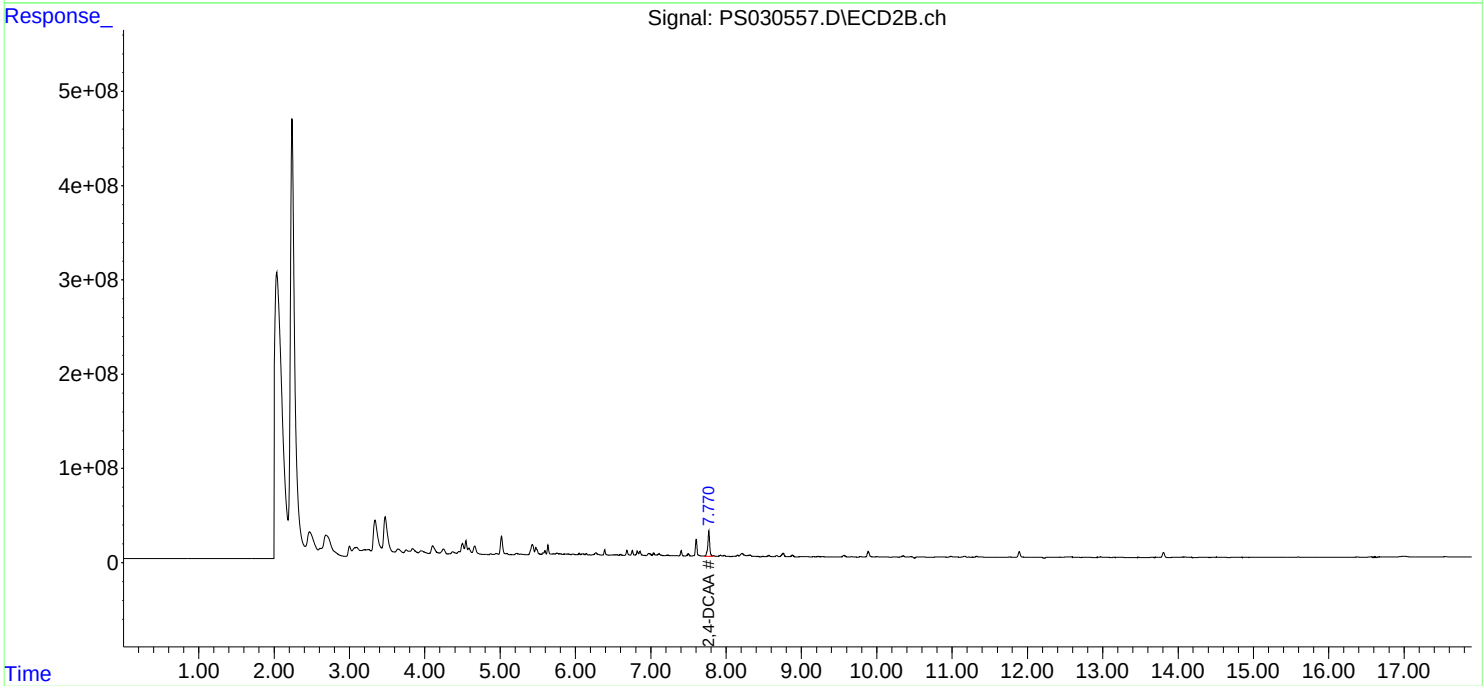
Instrument :
ECD_S
ClientSampleId :
PB168271TB

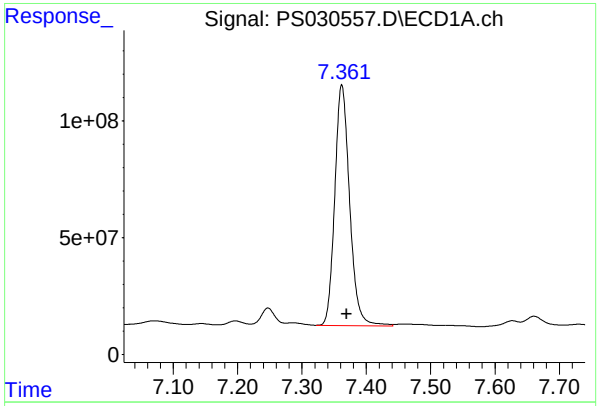
Manual Integrations APPROVED
Reviewed By :Abdul Mirza 06/09/2025
Supervised By :mohammad ahmed 06/10/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 07 04:47:58 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS060425.M
Quant Title : 8080.M
QLast Update : Wed Jun 04 13:21:22 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm







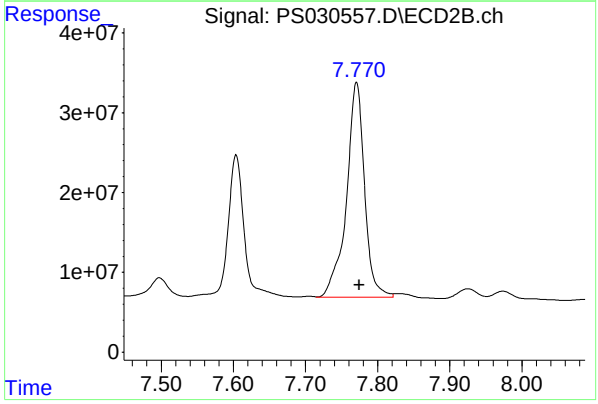
#4 2,4-DCAA

R.T.: 7.362 min
Delta R.T.: -0.007 mi
Response: 1658949192
Conc: 439.44 ng/m

Instrument :
ECD_S
ClientSampleId :
PB168271TB

Manual Integrations APPROVED

Reviewed By :Abdul Mirza 06/09/2025
Supervised By :mohammad ahmed 06/10/2025



#4 2,4-DCAA

R.T.: 7.770 min
Delta R.T.: -0.004 min
Response: 469306275
Conc: 436.32 ng/ml m

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS060925\
Data File : PS030570.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 09 Jun 2025 15:46
Operator : AR\AJ
Sample : Q2198-02
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
B-202-SB02

Manual Integrations APPROVED
Reviewed By :Abdul Mirza 06/10/2025
Supervised By :mohammad ahmed 06/11/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 10 02:54:33 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS060425.M
Quant Title : 8080.M
QLast Update : Wed Jun 04 13:21:22 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
4) S	2,4-DCAA	7.360	7.768	1835.9E6	498.0E6	486.322	463.011m
	Target Compounds						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

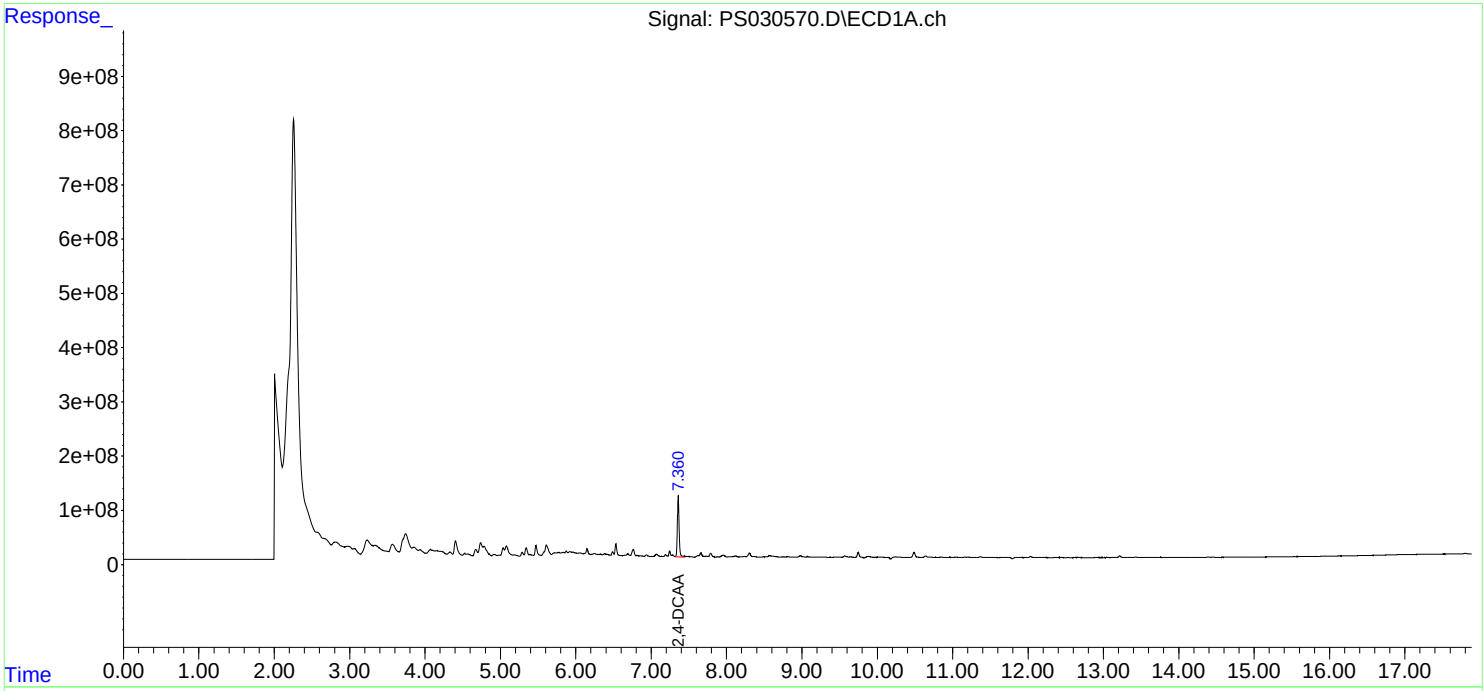
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS060925\
Data File : PS030570.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 09 Jun 2025 15:46
Operator : AR\AJ
Sample : Q2198-02
Misc :
ALS Vial : 10 Sample Multiplier: 1

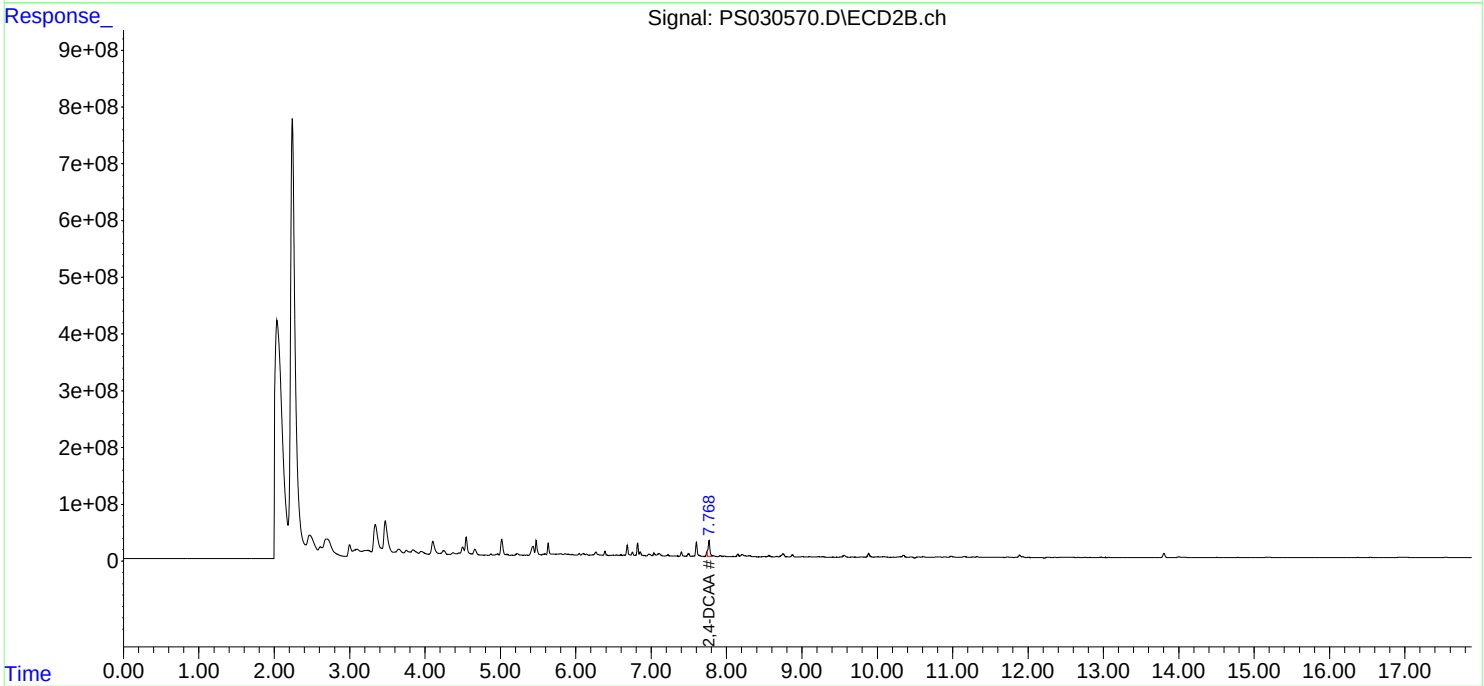
Instrument :
ECD_S
ClientSampleId :
B-202-SB02

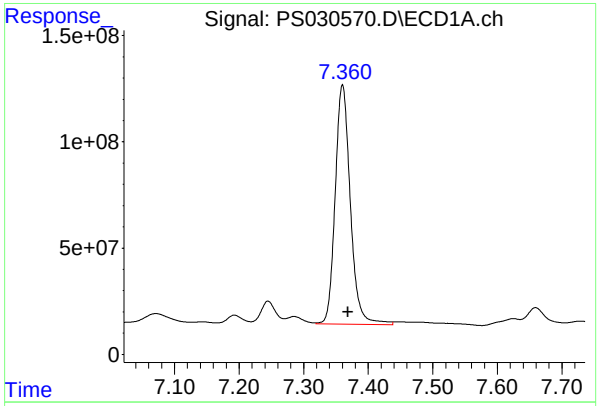
Manual Integrations APPROVED
Reviewed By :Abdul Mirza 06/10/2025
Supervised By :mohammad ahmed 06/11/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 10 02:54:33 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS060425.M
Quant Title : 8080.M
QLast Update : Wed Jun 04 13:21:22 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm







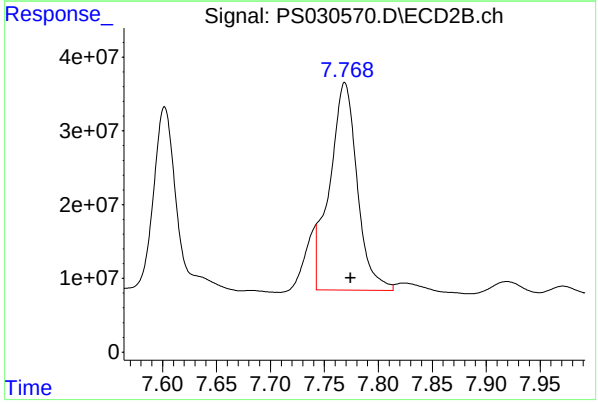
#4 2,4-DCAA

R.T.: 7.360 min
Delta R.T.: -0.009 min
Response: 1835935977
Conc: 486.32 ng/ml

Instrument :
ECD_S
ClientSampleId :
B-202-SB02

Manual Integrations APPROVED

Reviewed By :Abdul Mirza 06/10/2025
Supervised By :mohammad ahmed 06/11/2025



#4 2,4-DCAA

R.T.: 7.768 min
Delta R.T.: -0.006 min
Response: 498018948
Conc: 463.01 ng/ml m

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS060925\
Data File : PS030571.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 09 Jun 2025 16:10
Operator : AR\AJ
Sample : Q2198-04
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
B-207-SB02

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 10 02:54:44 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS060425.M
Quant Title : 8080.M
QLast Update : Wed Jun 04 13:21:22 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
4) S	2,4-DCAA	7.360	7.769	2156.6E6	556.4E6	571.264	517.269
	Target Compounds						

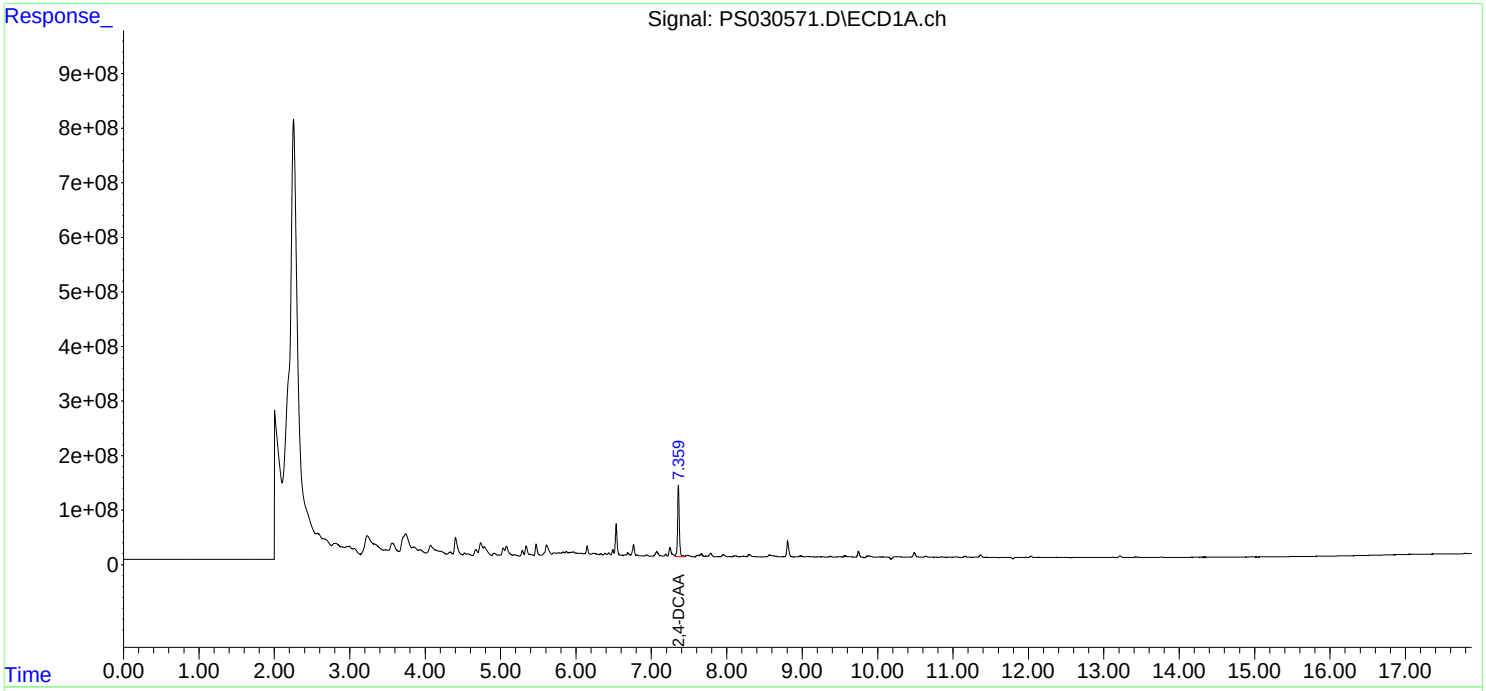
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

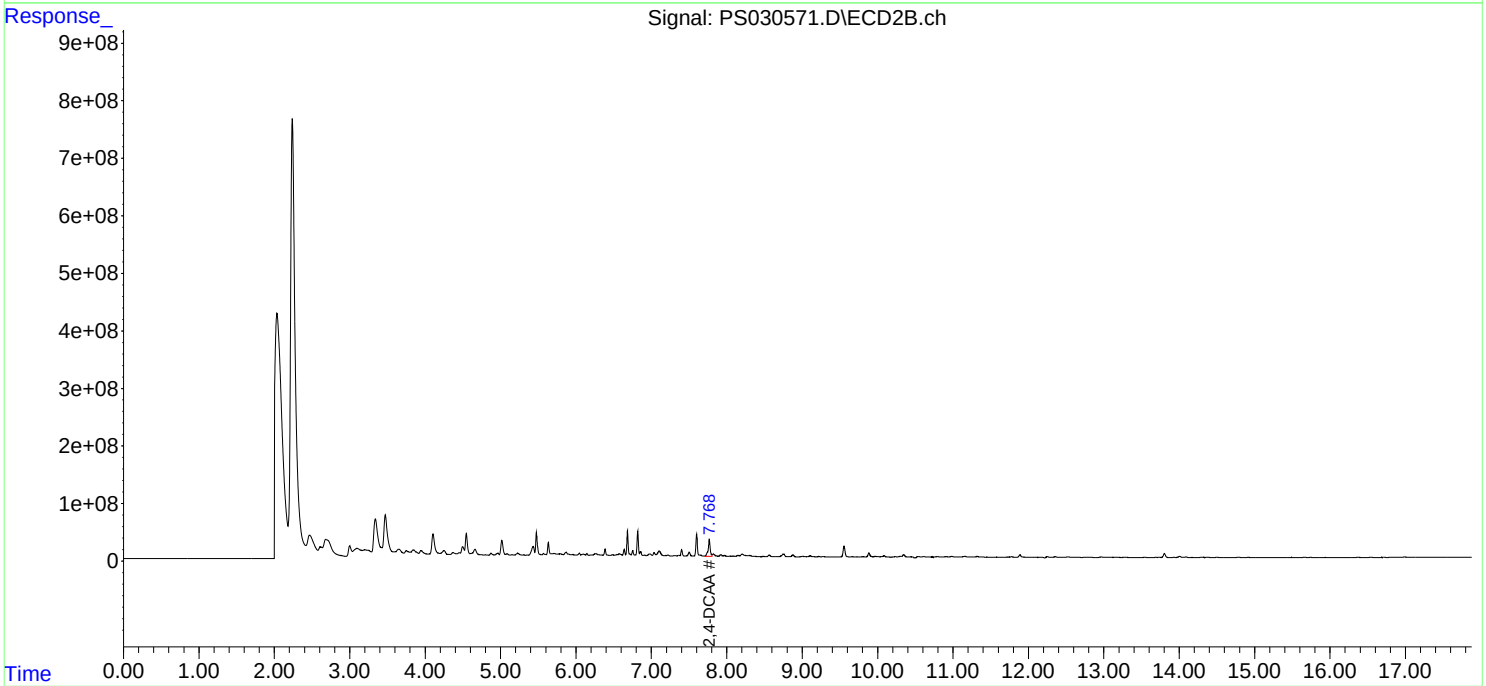
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS060925\
Data File : PS030571.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 09 Jun 2025 16:10
Operator : AR\AJ
Sample : Q2198-04
Misc :
ALS Vial : 11 Sample Multiplier: 1

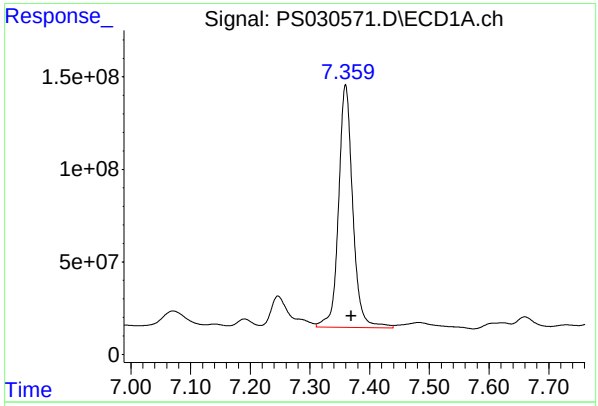
Instrument :
ECD_S
ClientSampleId :
B-207-SB02

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 10 02:54:44 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS060425.M
Quant Title : 8080.M
QLast Update : Wed Jun 04 13:21:22 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm



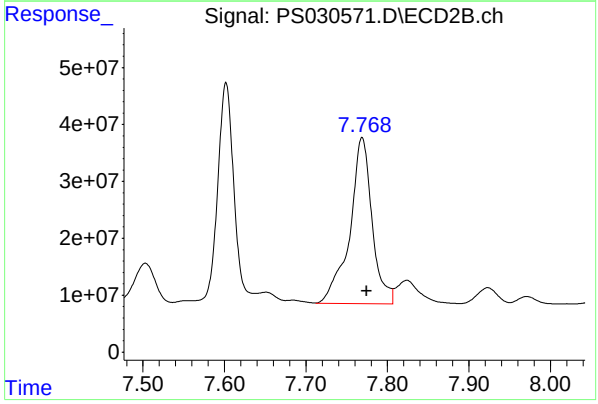




#4 2,4-DCAA

R.T.: 7.360 min
Delta R.T.: -0.009 min
Response: 2156605842
Conc: 571.26 ng/ml

Instrument :
ECD_S
ClientSampleId :
B-207-SB02



#4 2,4-DCAA

R.T.: 7.769 min
Delta R.T.: -0.005 min
Response: 556380325
Conc: 517.27 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS060625\
Data File : PS030544.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 06 Jun 2025 22:00
Operator : AR\AJ
Sample : PB168329BL
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
PB168329BL

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 07 01:18:23 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS060425.M
Quant Title : 8080.M
QLast Update : Wed Jun 04 13:21:22 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
4) S	2,4-DCAA	7.363	7.771	1605.3E6	520.9E6	425.236	484.270
	Target Compounds						

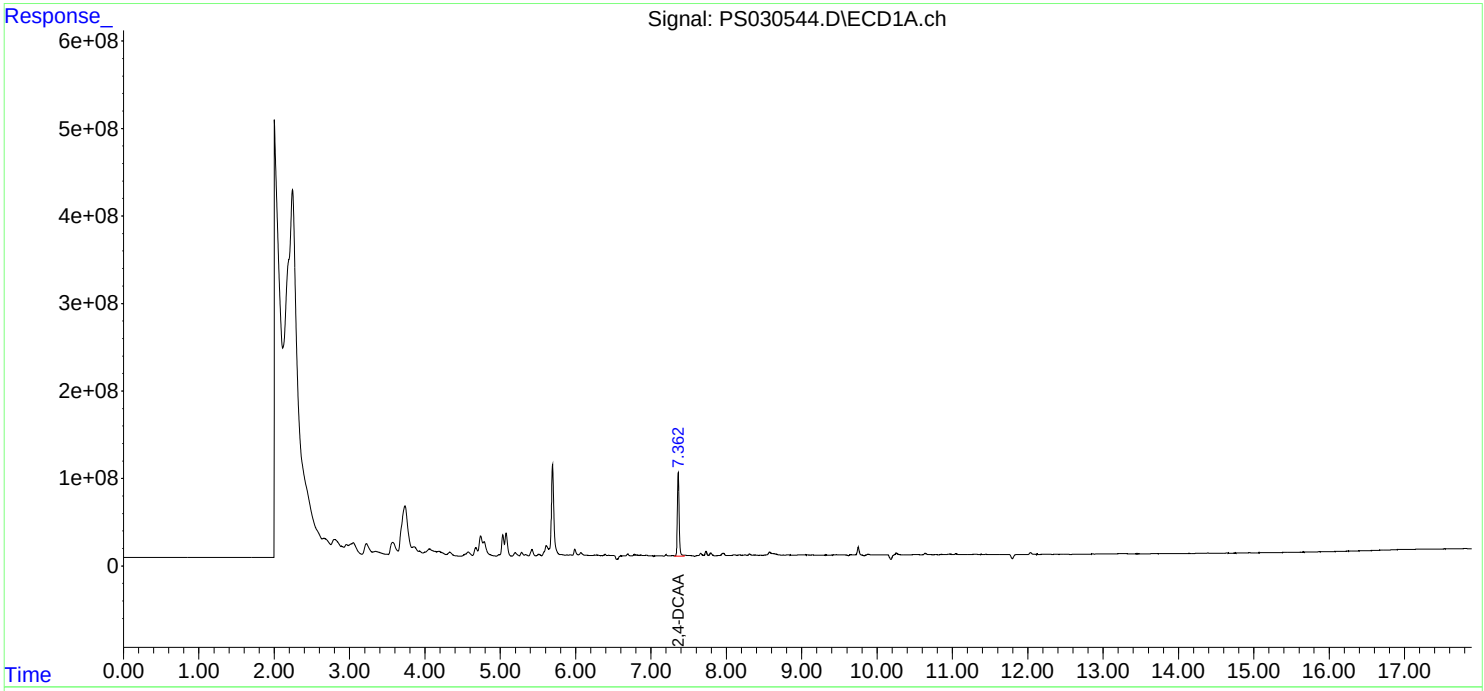
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

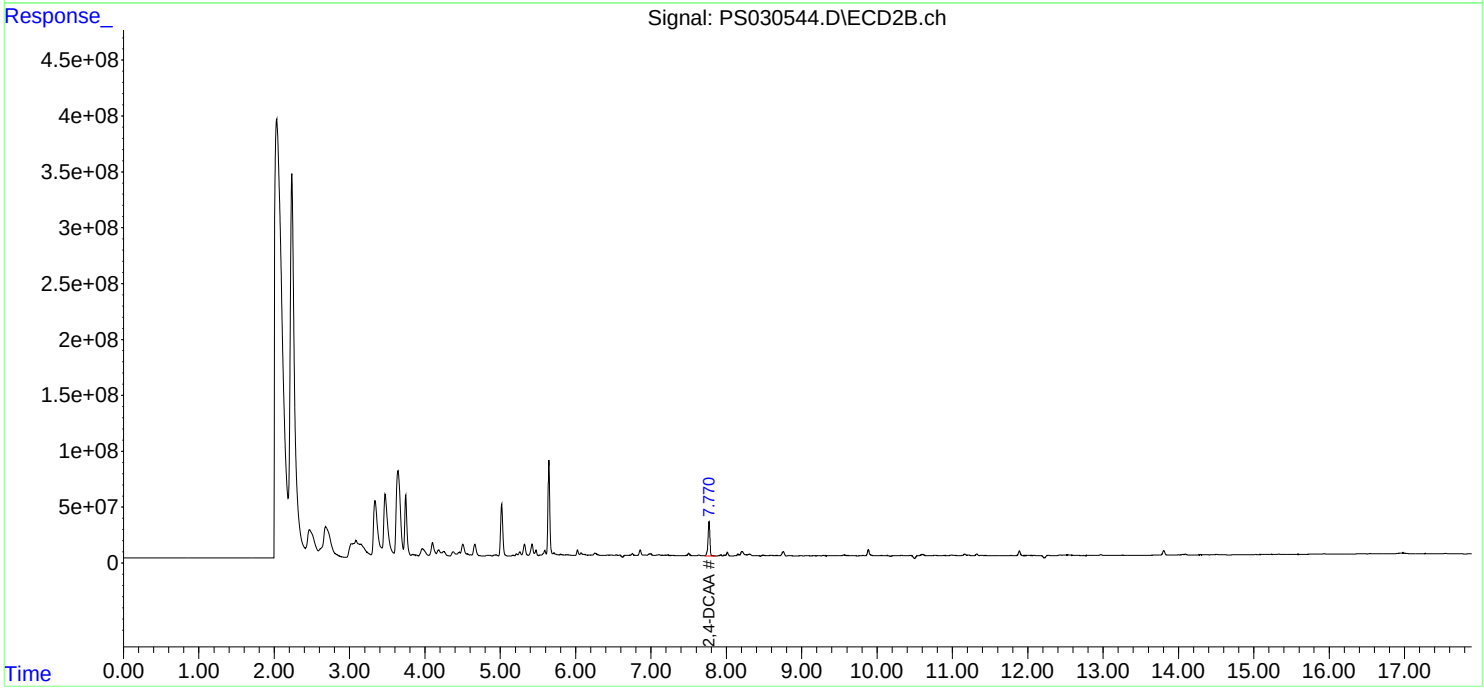
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS060625\
Data File : PS030544.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 06 Jun 2025 22:00
Operator : AR\AJ
Sample : PB168329BL
Misc :
ALS Vial : 12 Sample Multiplier: 1

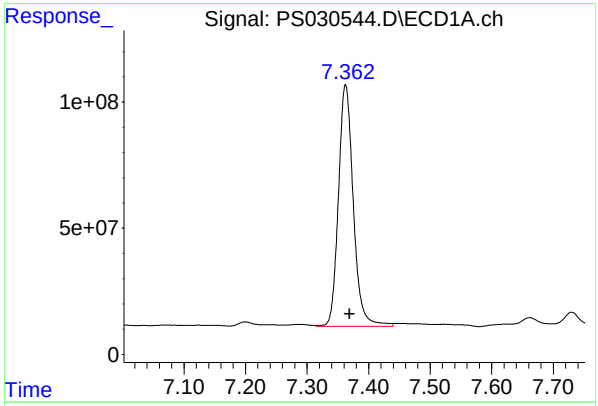
Instrument :
ECD_S
ClientSampleId :
PB168329BL

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 07 01:18:23 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS060425.M
Quant Title : 8080.M
QLast Update : Wed Jun 04 13:21:22 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm



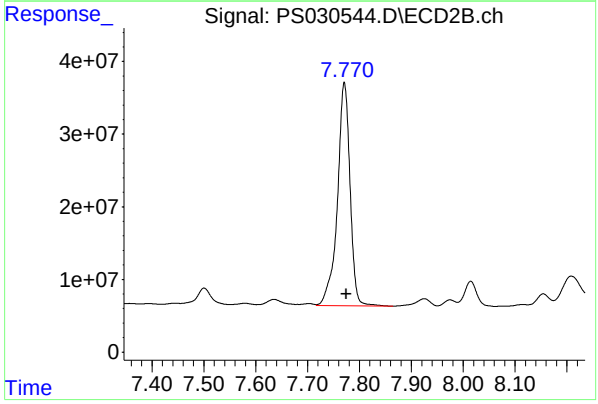




#4 2,4-DCAA

R.T.: 7.363 min
Delta R.T.: -0.006 min
Response: 1605327221
Conc: 425.24 ng/ml

Instrument :
ECD_S
ClientSampleId :
PB168329BL



#4 2,4-DCAA

R.T.: 7.771 min
Delta R.T.: -0.004 min
Response: 520886221
Conc: 484.27 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS060625\
Data File : PS030545.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 06 Jun 2025 22:24
Operator : AR\AJ
Sample : PB168329BS
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
PB168329BS

Manual Integrations APPROVED
Reviewed By :Abdul Mirza 06/09/2025
Supervised By :mohammad ahmed 06/10/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 07 01:18:37 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS060425.M
Quant Title : 8080.M
QLast Update : Wed Jun 04 13:21:22 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
		System Monitoring Compounds						
4)	S	2,4-DCAA	7.362	7.771	1975.8E6	543.8E6	523.379m	505.558
		Target Compounds						
1)	T	Dalapon	2.717	2.712	2692.2E6	1264.9E6	476.751	461.623
2)	T	3,5-DICHL...	6.519	6.716	2667.6E6	748.2E6	491.603	478.310
3)	T	4-Nitroph...	7.162	7.302	833.7E6	749.7E6	454.645	478.335
5)	T	DICAMBA	7.553	7.974	7673.4E6	3107.8E6	497.548	482.450
6)	T	MCPP	7.734	8.073	456.7E6	108.4E6	46.113m	46.886
7)	T	MCPA	7.884	8.321	566.7E6	131.2E6	44.656	42.500
8)	T	DICHLORPROP	8.269	8.695	1767.5E6	713.3E6	485.822	480.570
9)	T	2,4-D	8.502	9.030	1699.6E6	796.5E6	466.472	506.560m
10)	T	Pentachlo...	8.811	9.557	27456.5E6	18208.6E6	540.629	503.862
11)	T	2,4,5-TP ...	9.393	9.938	10254.1E6	6747.7E6	496.203	491.929
12)	T	2,4,5-T	9.687	10.363	8538.1E6	6341.0E6	463.247	485.638
13)	T	2,4-DB	10.267	10.931	1286.1E6	547.3E6	423.573	476.127
14)	T	DINOSEB	11.489	11.317	7060.9E6	4899.9E6	491.192	487.544
15)	T	Picloram	11.295	12.424	8045.3E6	9906.7E6	402.167m	448.594
16)	T	DCPA	11.785	12.361	13438.5E6	10255.0E6	508.264	501.148

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

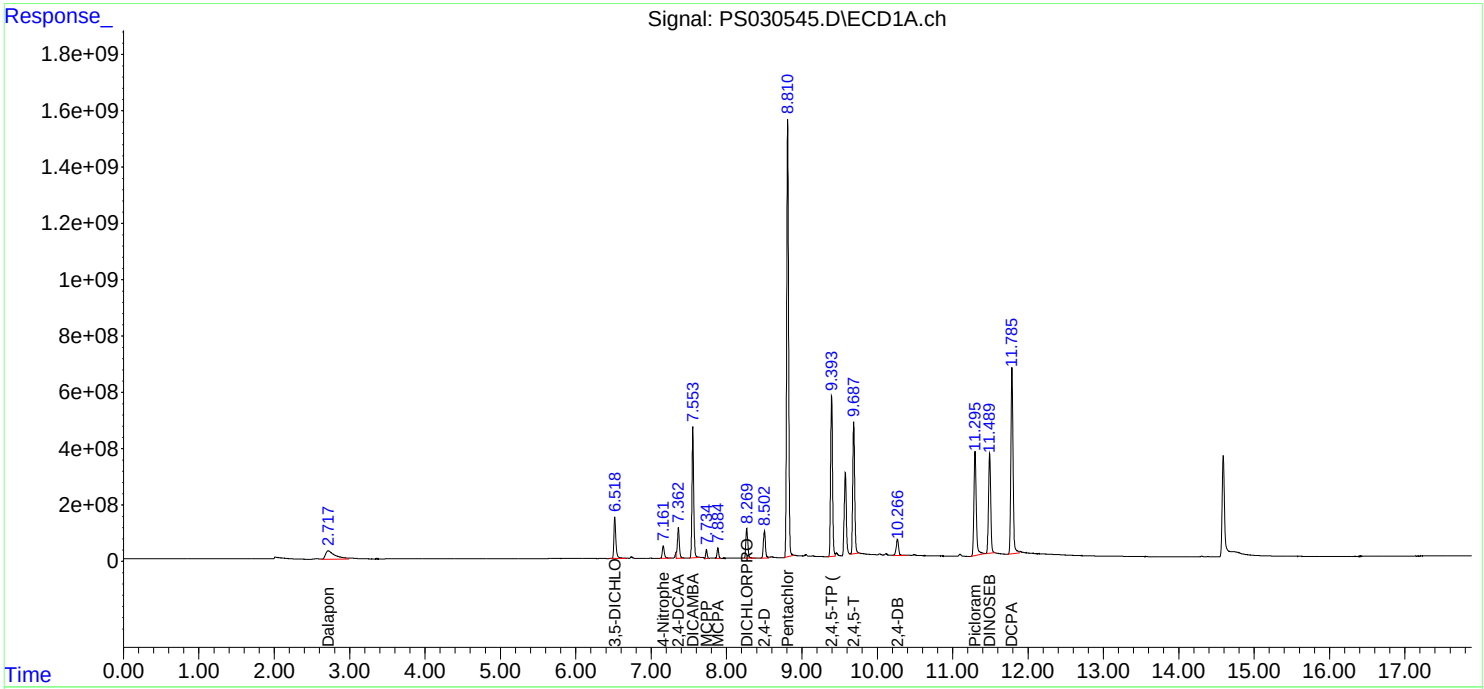
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS060625\
Data File : PS030545.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 06 Jun 2025 22:24
Operator : AR\AJ
Sample : PB168329BS
Misc :
ALS Vial : 13 Sample Multiplier: 1

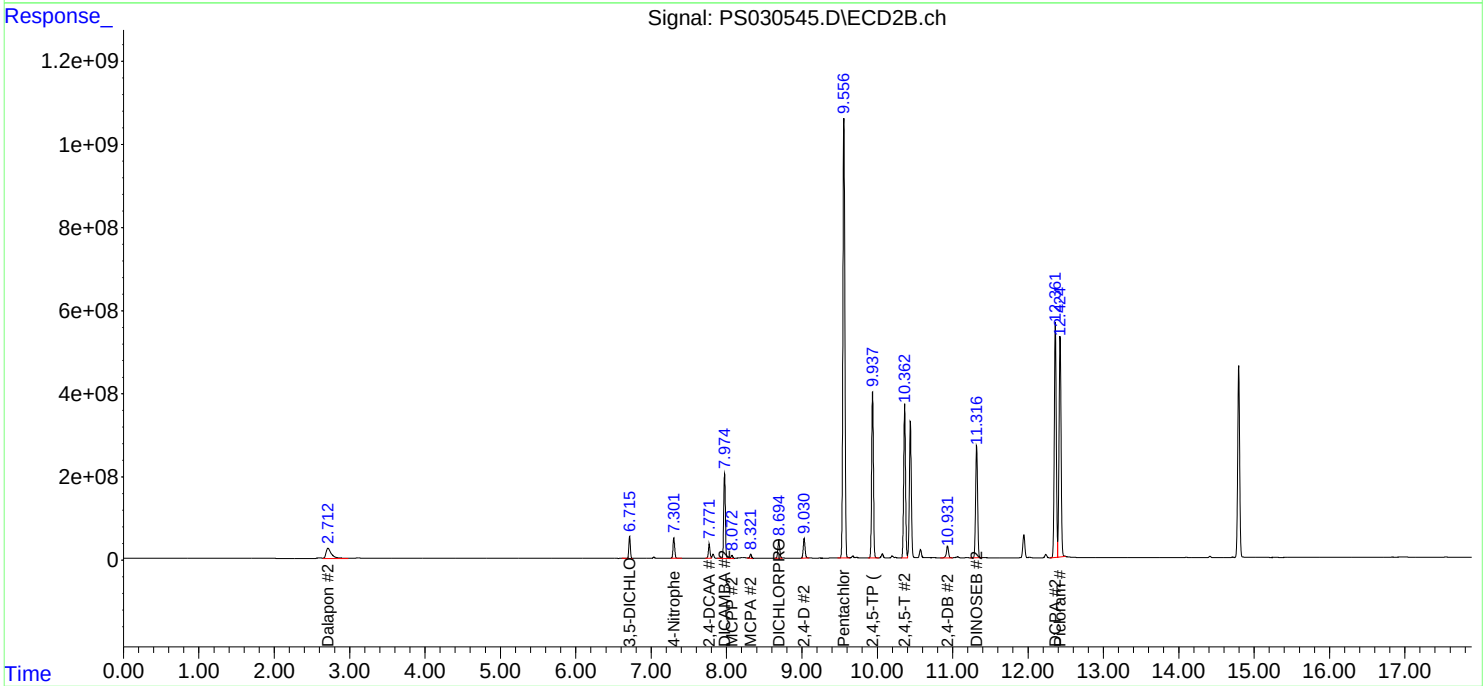
Instrument :
ECD_S
ClientSampleId :
PB168329BS

Manual Integrations APPROVED
Reviewed By :Abdul Mirza 06/09/2025
Supervised By :mohammad ahmed 06/10/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 07 01:18:37 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS060425.M
Quant Title : 8080.M
QLast Update : Wed Jun 04 13:21:22 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm





Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS060925\
Data File : PS030572.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 09 Jun 2025 16:34
Operator : AR\AJ
Sample : Q2198-04MS
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
B-207-SB02MS

Manual Integrations APPROVED
Reviewed By :Abdul Mirza 06/10/2025
Supervised By :mohammad ahmed 06/11/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 10 02:54:56 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS060425.M
Quant Title : 8080.M
QLast Update : Wed Jun 04 13:21:22 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
4) S	2,4-DCAA	7.359	7.769	2319.5E6	570.8E6	614.412	530.684
	Target Compounds						
1) T	Dalapon	2.708	2.708	626.2E6	2680.5E6	110.892m	978.275m#
2) T	3,5-DICHL...	6.530	6.714	5243.2E6	638.7E6	966.245m	408.290m#
5) T	DICAMBA	7.551	7.972	6374.8E6	2764.1E6	413.343	429.103m
6) T	MCPP	7.732	8.072	305.7E6	74813454	30.864	32.365
7) T	MCPA	7.883	8.318	490.5E6	125.3E6	38.652	40.589m
8) T	DICHLORPROP	8.267	8.692	1766.2E6	657.8E6	485.467	443.227
9) T	2,4-D	8.500	9.028	1816.5E6	754.2E6	498.539	479.641
10) T	Pentachlo...	8.808	9.554	26166.6E6	17068.8E6	515.231	472.323
11) T	2,4,5-TP ...	9.390	9.935	10214.9E6	6869.7E6	494.306	500.827
12) T	2,4,5-T	9.685	10.361	8123.9E6	5920.4E6	440.770	453.420
13) T	2,4-DB	10.265	10.927	1031.8E6	524.0E6	339.823m	455.814m#
14) T	DINOSEB	11.486	11.314	5720.9E6	3810.3E6	397.979	379.128
15) T	Picloram	11.292	12.421	7274.6E6	8134.8E6	363.641m	368.357
16) T	DCPA	11.781	12.358	10688.6E6	9093.9E6	404.259	444.410m

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

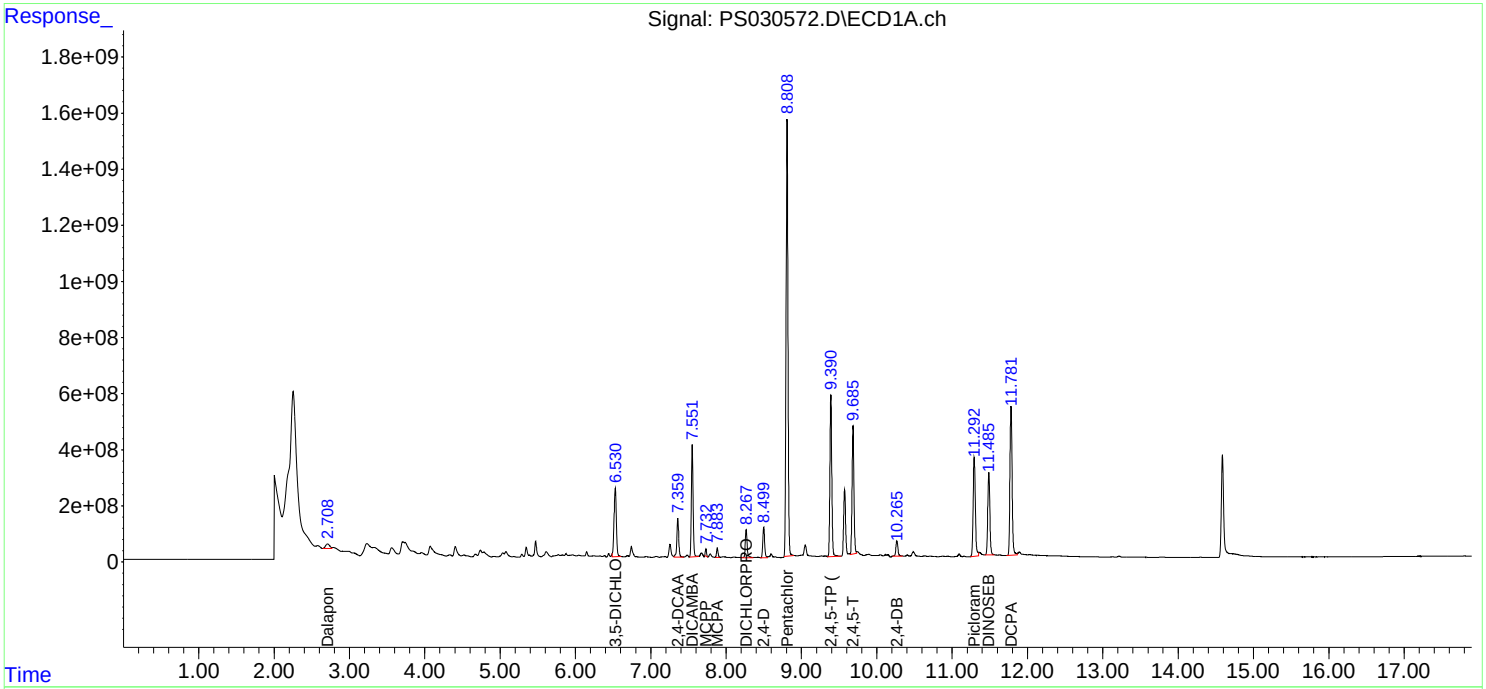
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS060925\
Data File : PS030572.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 09 Jun 2025 16:34
Operator : AR\AJ
Sample : Q2198-04MS
Misc :
ALS Vial : 12 Sample Multiplier: 1

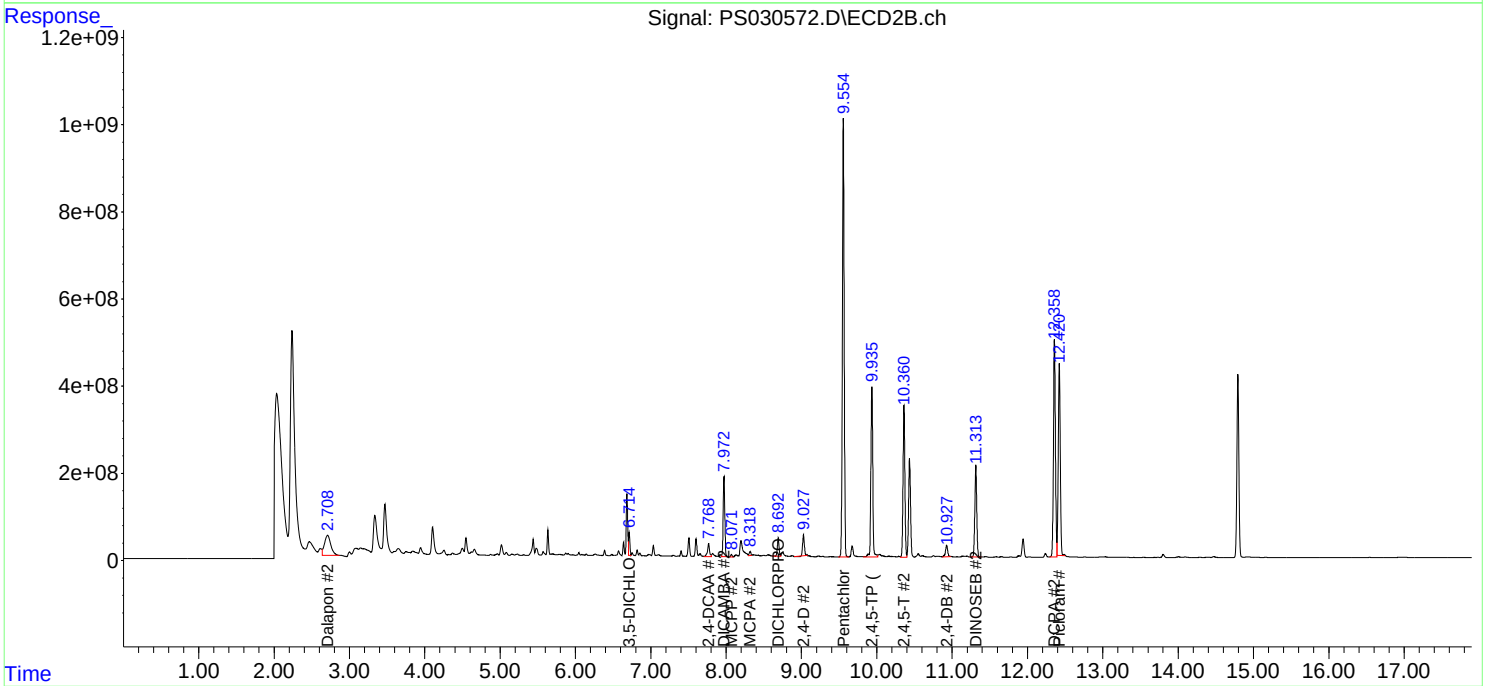
Instrument :
ECD_S
ClientSampleId :
B-207-SB02MS

Manual Integrations APPROVED
Reviewed By :Abdul Mirza 06/10/2025
Supervised By :mohammad ahmed 06/11/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 10 02:54:56 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS060425.M
Quant Title : 8080.M
QLast Update : Wed Jun 04 13:21:22 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm





Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS060925\
Data File : PS030573.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 09 Jun 2025 16:58
Operator : AR\AJ
Sample : Q2198-04MSD
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
B-207-SB02MSD

Manual Integrations APPROVED
Reviewed By :Abdul Mirza 06/10/2025
Supervised By :mohammad ahmed 06/11/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 10 02:55:09 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS060425.M
Quant Title : 8080.M
QLast Update : Wed Jun 04 13:21:22 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
4) S	2,4-DCAA	7.360	7.769	2358.0E6	583.7E6	624.616	542.640
	Target Compounds						
1) T	Dalapon	2.710	2.709	671.5E6	2740.7E6	118.920m	1000.251m#
2) T	3,5-DICHL...	6.531	6.714	6068.3E6	623.5E6	1118.307m	398.576 #
5) T	DICAMBA	7.552	7.973	6360.2E6	2836.3E6	412.395	440.309
6) T	MCPP	7.733	8.073	323.8E6	74093897	32.693	32.053
7) T	MCPA	7.883	8.318	499.4E6	127.4E6	39.356	41.285m
8) T	DICHLORPROP	8.268	8.693	1726.8E6	674.7E6	474.642	454.579
9) T	2,4-D	8.500	9.028	1805.0E6	703.1E6	495.386	447.151
10) T	Pentachlo...	8.809	9.555	25954.7E6	16974.1E6	511.058	469.702
11) T	2,4,5-TP ...	9.391	9.936	10122.7E6	6841.6E6	489.844	498.778
12) T	2,4,5-T	9.685	10.362	8090.3E6	5909.7E6	438.948	452.605
13) T	2,4-DB	10.266	10.928	986.8E6	516.9E6	325.001m	449.612 #
14) T	DINOSEB	11.487	11.314	5705.5E6	3818.5E6	396.905	379.944
15) T	Picloram	11.293	12.422	7227.4E6	8190.6E6	361.285m	370.888
16) T	DCPA	11.781	12.358	10579.5E6	9085.7E6	400.129	444.008

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

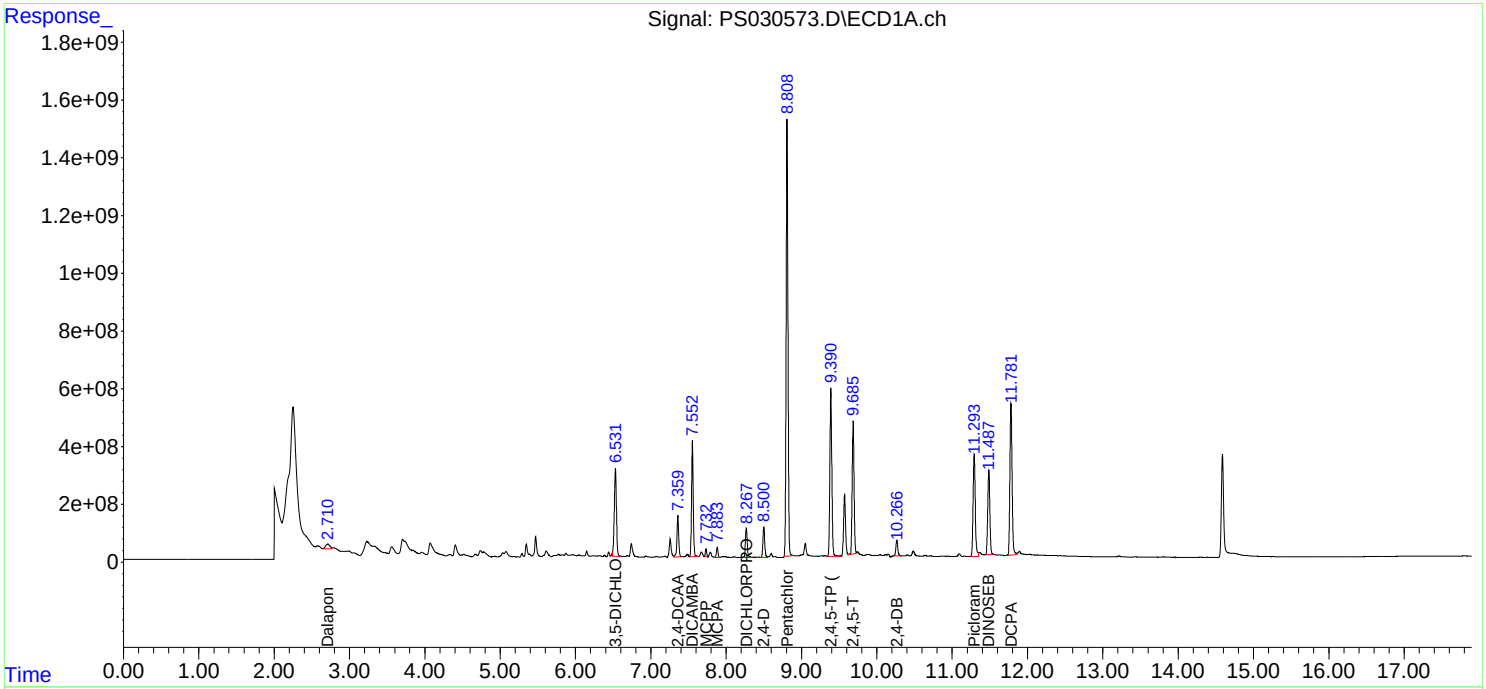
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS060925\
Data File : PS030573.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 09 Jun 2025 16:58
Operator : AR\AJ
Sample : Q2198-04MSD
Misc :
ALS Vial : 13 Sample Multiplier: 1

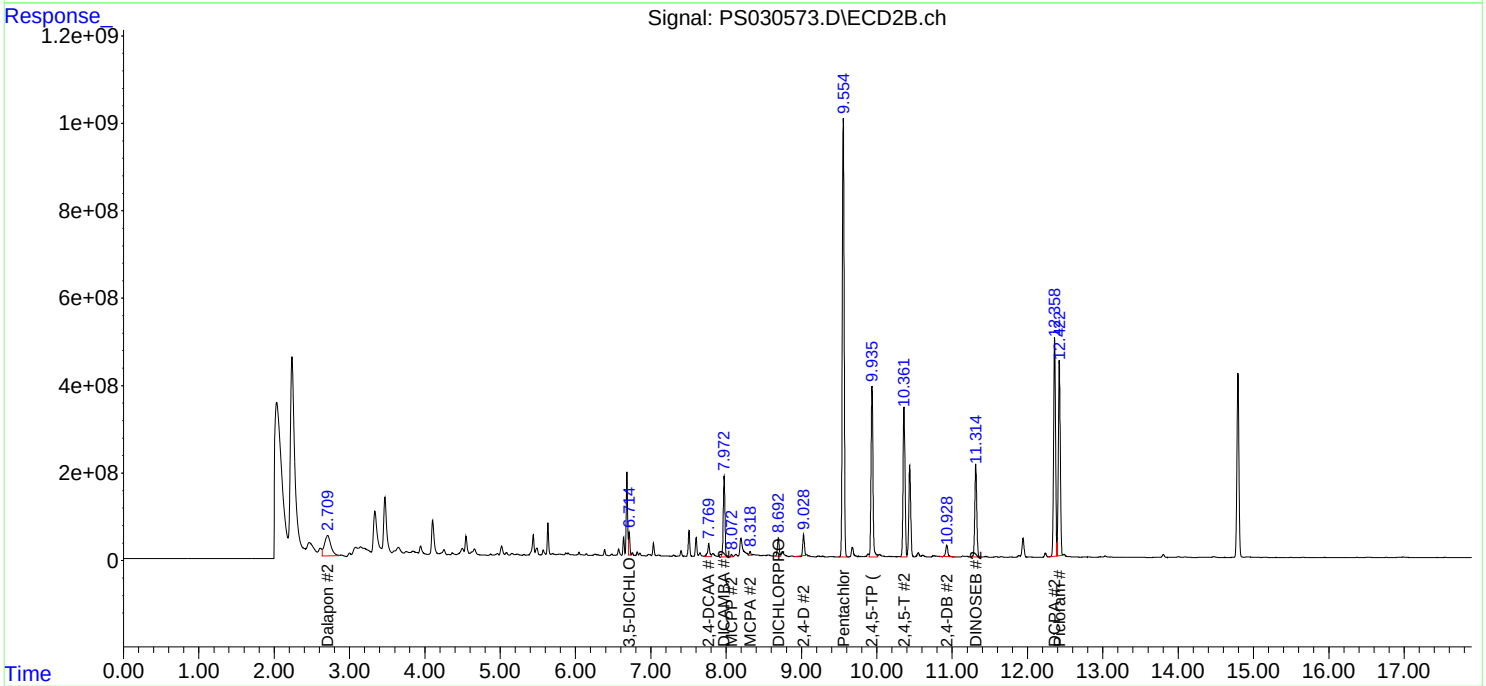
Instrument :
ECD_S
ClientSampleId :
B-207-SB02MSD

Manual Integrations APPROVED
Reviewed By :Abdul Mirza 06/10/2025
Supervised By :mohammad ahmed 06/11/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 10 02:55:09 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS060425.M
Quant Title : 8080.M
QLast Update : Wed Jun 04 13:21:22 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm





284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

Manual Integration Report

Sequence:	PS060425	Instrument	ECD_s

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
HSTDICC200	PS030476.D	2,4-DCAA	Abdul	6/5/2025 8:32:30 AM	mohammad	6/6/2025 2:02:33	Peak Integrated by Software
HSTDICC200	PS030476.D	MCPA #2	Abdul	6/5/2025 8:32:30 AM	mohammad	6/6/2025 2:02:33	Peak Integrated by Software
HSTDICC500	PS030477.D	2,4-DCAA	Abdul	6/5/2025 8:32:34 AM	mohammad	6/6/2025 2:02:33	Peak Integrated by Software
HSTDICC750	PS030478.D	2,4-DCAA	Abdul	6/5/2025 8:32:37 AM	mohammad	6/6/2025 2:02:33	Peak Integrated by Software
HSTDICC1000	PS030479.D	2,4-DCAA	Abdul	6/5/2025 8:32:40 AM	mohammad	6/6/2025 2:02:33	Peak Integrated by Software
HSTDICC1500	PS030480.D	2,4-DCAA	Abdul	6/5/2025 8:32:44 AM	mohammad	6/6/2025 2:02:33	Peak Integrated by Software
HSTDICC1500	PS030480.D	MCPA #2	Abdul	6/5/2025 8:32:44 AM	mohammad	6/6/2025 2:02:33	Peak Integrated by Software
HSTDICV750	PS030481.D	2,4-DCAA	Abdul	6/5/2025 8:32:48 AM	mohammad	6/6/2025 2:02:33	Peak Integrated by Software
HSTDCCC750	PS030483.D	2,4-DCAA	Abdul	6/5/2025 8:32:51 AM	mohammad	6/6/2025 2:02:33	Peak Integrated by Software
HSTDCCC750	PS030483.D	MCPA #2	Abdul	6/5/2025 8:32:51 AM	mohammad	6/6/2025 2:02:33	Peak Integrated by Software
HSTDCCC750	PS030489.D	2,4-DB #2	Abdul	6/5/2025 8:33:07 AM	mohammad	6/6/2025 2:02:33	Peak Integrated by Software
HSTDCCC750	PS030489.D	2,4-DCAA	Abdul	6/5/2025 8:33:07 AM	mohammad	6/6/2025 2:02:33	Peak Integrated by Software
HSTDCCC750	PS030489.D	MCPA #2	Abdul	6/5/2025 8:33:07 AM	mohammad	6/6/2025 2:02:33	Peak Integrated by Software

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Manual Integration Report

Sequence:	PS060425	Instrument	ECD_s

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
HSTDCCC750	PS030497.D	2,4-DCAA	Abdul	6/5/2025 3:53:26 PM	mohammad	6/6/2025 2:02:33	Peak Integrated by Software
HSTDCCC750	PS030506.D	2,4-DCAA	Abdul	6/5/2025 11:55:40 AM	mohammad	6/6/2025 2:02:33	Peak Integrated by Software
HSTDCCC750	PS030516.D	2,4-D #2	Abdul	6/5/2025 3:54:14 PM	mohammad	6/6/2025 2:02:33	Peak Integrated by Software
HSTDCCC750	PS030516.D	2,4-DCAA	Abdul	6/5/2025 3:54:14 PM	mohammad	6/6/2025 2:02:33	Peak Integrated by Software
HSTDCCC750	PS030516.D	MCPA #2	Abdul	6/5/2025 3:54:14 PM	mohammad	6/6/2025 2:02:33	Peak Integrated by Software
HSTDCCC750	PS030516.D	Picloram	Abdul	6/5/2025 3:54:14 PM	mohammad	6/6/2025 2:02:33	Peak Integrated by Software
HSTDCCC750	PS030526.D	2,4-D #2	Abdul	6/5/2025 3:54:18 PM	mohammad	6/6/2025 2:02:33	Peak Integrated by Software
HSTDCCC750	PS030526.D	2,4-DCAA	Abdul	6/5/2025 3:54:18 PM	mohammad	6/6/2025 2:02:33	Peak Integrated by Software
HSTDCCC750	PS030526.D	DCPA #2	Abdul	6/5/2025 3:54:18 PM	mohammad	6/6/2025 2:02:33	Peak Integrated by Software
HSTDCCC750	PS030526.D	MCPA #2	Abdul	6/5/2025 3:54:18 PM	mohammad	6/6/2025 2:02:33	Peak Integrated by Software
HSTDCCC750	PS030526.D	Picloram	Abdul	6/5/2025 3:54:18 PM	mohammad	6/6/2025 2:02:33	Peak Integrated by Software

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Manual Integration Report

Sequence:	ps060625	Instrument	ECD_s

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
HSTDCCC750	PS030535.D	2,4-D #2	Abdul	6/9/2025 2:29:14 PM	mohammad	6/10/2025 2:36:40	Peak Integrated by Software
HSTDCCC750	PS030535.D	DCPA #2	Abdul	6/9/2025 2:29:14 PM	mohammad	6/10/2025 2:36:40	Peak Integrated by Software
HSTDCCC750	PS030535.D	MCPP	Abdul	6/9/2025 2:29:14 PM	mohammad	6/10/2025 2:36:40	Peak Integrated by Software
HSTDCCC750	PS030535.D	Picloram	Abdul	6/9/2025 2:29:14 PM	mohammad	6/10/2025 2:36:40	Peak Integrated by Software
PB168329BS	PS030545.D	2,4-D #2	Abdul	6/9/2025 2:29:27 PM	mohammad	6/10/2025 2:36:40	Peak Integrated by Software
PB168329BS	PS030545.D	2,4-DCAA	Abdul	6/9/2025 2:29:27 PM	mohammad	6/10/2025 2:36:40	Peak Integrated by Software
PB168329BS	PS030545.D	MCPP	Abdul	6/9/2025 2:29:27 PM	mohammad	6/10/2025 2:36:40	Peak Integrated by Software
PB168329BS	PS030545.D	Picloram	Abdul	6/9/2025 2:29:27 PM	mohammad	6/10/2025 2:36:40	Peak Integrated by Software
HSTDCCC750	PS030547.D	2,4-DB #2	Abdul	6/9/2025 2:29:30 PM	mohammad	6/10/2025 2:36:40	Peak Integrated by Software
HSTDCCC750	PS030547.D	2,4-DCAA	Abdul	6/9/2025 2:29:30 PM	mohammad	6/10/2025 2:36:40	Peak Integrated by Software
HSTDCCC750	PS030547.D	DCPA #2	Abdul	6/9/2025 2:29:30 PM	mohammad	6/10/2025 2:36:40	Peak Integrated by Software
HSTDCCC750	PS030547.D	MCPP	Abdul	6/9/2025 2:29:30 PM	mohammad	6/10/2025 2:36:40	Peak Integrated by Software
HSTDCCC750	PS030547.D	Picloram	Abdul	6/9/2025 2:29:30 PM	mohammad	6/10/2025 2:36:40	Peak Integrated by Software

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Manual Integration Report

Sequence:	ps060625	Instrument	ECD_s

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
PB168271TB	PS030557.D	2,4-DCAA #2	Abdul	6/9/2025 2:30:08 PM	mohammad	6/10/2025 2:36:40	Peak Integrated by Software
HSTDCCC750	PS030560.D	2,4-D #2	Abdul	6/9/2025 2:30:16 PM	mohammad	6/10/2025 2:36:40	Peak Integrated by Software
HSTDCCC750	PS030560.D	2,4-DB #2	Abdul	6/9/2025 2:30:16 PM	mohammad	6/10/2025 2:36:40	Peak Integrated by Software
HSTDCCC750	PS030560.D	2,4-DCAA	Abdul	6/9/2025 2:30:16 PM	mohammad	6/10/2025 2:36:40	Peak Integrated by Software
HSTDCCC750	PS030560.D	DCPA #2	Abdul	6/9/2025 2:30:16 PM	mohammad	6/10/2025 2:36:40	Peak Integrated by Software
HSTDCCC750	PS030560.D	DICAMBA #2	Abdul	6/9/2025 2:30:16 PM	mohammad	6/10/2025 2:36:40	Peak Integrated by Software
HSTDCCC750	PS030560.D	MCPP	Abdul	6/9/2025 2:30:16 PM	mohammad	6/10/2025 2:36:40	Peak Integrated by Software
HSTDCCC750	PS030560.D	Picloram	Abdul	6/9/2025 2:30:16 PM	mohammad	6/10/2025 2:36:40	Peak Integrated by Software

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Manual Integration Report

Sequence:	ps060925	Instrument	ECD_s

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
HSTDCCC750	PS030563.D	2,4-DB	Abdul	6/10/2025 10:45:04 AM	mohammad	6/11/2025 2:16:12	Peak Integrated by Software
HSTDCCC750	PS030563.D	2,4-DCAA	Abdul	6/10/2025 10:45:04 AM	mohammad	6/11/2025 2:16:12	Peak Integrated by Software
HSTDCCC750	PS030563.D	DCPA #2	Abdul	6/10/2025 10:45:04 AM	mohammad	6/11/2025 2:16:12	Peak Integrated by Software
HSTDCCC750	PS030563.D	MCPP	Abdul	6/10/2025 10:45:04 AM	mohammad	6/11/2025 2:16:12	Peak Integrated by Software
HSTDCCC750	PS030563.D	Picloram	Abdul	6/10/2025 10:45:04 AM	mohammad	6/11/2025 2:16:12	Peak Integrated by Software
Q2198-02	PS030570.D	2,4-DCAA #2	Abdul	6/10/2025 10:45:10 AM	mohammad	6/11/2025 2:16:12	Peak Integrated by Software
Q2198-04MS	PS030572.D	2,4-DB	Abdul	6/10/2025 10:45:13 AM	mohammad	6/11/2025 2:16:12	Peak Integrated by Software
Q2198-04MS	PS030572.D	2,4-DB #2	Abdul	6/10/2025 10:45:13 AM	mohammad	6/11/2025 2:16:12	Peak Integrated by Software
Q2198-04MS	PS030572.D	3,5-DICHLOROBENZOIC ACID	Abdul	6/10/2025 10:45:13 AM	mohammad	6/11/2025 2:16:12	Peak Integrated by Software
Q2198-04MS	PS030572.D	3,5-DICHLOROBENZOIC ACID #2	Abdul	6/10/2025 10:45:13 AM	mohammad	6/11/2025 2:16:12	Peak Integrated by Software
Q2198-04MS	PS030572.D	Dalapon	Abdul	6/10/2025 10:45:13 AM	mohammad	6/11/2025 2:16:12	Peak Integrated by Software
Q2198-04MS	PS030572.D	Dalapon #2	Abdul	6/10/2025 10:45:13 AM	mohammad	6/11/2025 2:16:12	Peak Integrated by Software
Q2198-04MS	PS030572.D	DCPA #2	Abdul	6/10/2025 10:45:13 AM	mohammad	6/11/2025 2:16:12	Peak Integrated by Software

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Manual Integration Report

Sequence:	ps060925	Instrument	ECD_s

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q2198-04MS	PS030572.D	DICAMBA #2	Abdul	6/10/2025 10:45:13 AM	mohammad	6/11/2025 2:16:12	Peak Integrated by Software
Q2198-04MS	PS030572.D	MCPA #2	Abdul	6/10/2025 10:45:13 AM	mohammad	6/11/2025 2:16:12	Peak Integrated by Software
Q2198-04MS	PS030572.D	Picloram	Abdul	6/10/2025 10:45:13 AM	mohammad	6/11/2025 2:16:12	Peak Integrated by Software
Q2198-04MSD	PS030573.D	2,4-DB	Abdul	6/10/2025 10:45:16 AM	mohammad	6/11/2025 2:16:12	Peak Integrated by Software
Q2198-04MSD	PS030573.D	3,5-DICHLOROBENZOIC ACID	Abdul	6/10/2025 10:45:16 AM	mohammad	6/11/2025 2:16:12	Peak Integrated by Software
Q2198-04MSD	PS030573.D	Dalapon	Abdul	6/10/2025 10:45:16 AM	mohammad	6/11/2025 2:16:12	Peak Integrated by Software
Q2198-04MSD	PS030573.D	Dalapon #2	Abdul	6/10/2025 10:45:16 AM	mohammad	6/11/2025 2:16:12	Peak Integrated by Software
Q2198-04MSD	PS030573.D	MCPA #2	Abdul	6/10/2025 10:45:16 AM	mohammad	6/11/2025 2:16:12	Peak Integrated by Software
Q2198-04MSD	PS030573.D	Picloram	Abdul	6/10/2025 10:45:16 AM	mohammad	6/11/2025 2:16:12	Peak Integrated by Software
HSTDCCC750	PS030575.D	2,4-DCAA	Abdul	6/10/2025 10:45:20 AM	mohammad	6/11/2025 2:16:12	Peak Integrated by Software
HSTDCCC750	PS030575.D	DCPA #2	Abdul	6/10/2025 10:45:20 AM	mohammad	6/11/2025 2:16:12	Peak Integrated by Software
HSTDCCC750	PS030575.D	MCPP	Abdul	6/10/2025 10:45:20 AM	mohammad	6/11/2025 2:16:12	Peak Integrated by Software
HSTDCCC750	PS030575.D	Picloram	Abdul	6/10/2025 10:45:20 AM	mohammad	6/11/2025 2:16:12	Peak Integrated by Software

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Manual Integration Report

Sequence:	ps060925	Instrument	ECD_s

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
HSTDCCC750	PS030580.D	2,4-DCAA	Abdul	6/10/2025 10:45:36 AM	mohammad	6/11/2025 2:16:12	Peak Integrated by Software
HSTDCCC750	PS030580.D	DCPA #2	Abdul	6/10/2025 10:45:36 AM	mohammad	6/11/2025 2:16:12	Peak Integrated by Software
HSTDCCC750	PS030580.D	MCPP	Abdul	6/10/2025 10:45:36 AM	mohammad	6/11/2025 2:16:12	Peak Integrated by Software
HSTDCCC750	PS030580.D	Picloram	Abdul	6/10/2025 10:45:36 AM	mohammad	6/11/2025 2:16:12	Peak Integrated by Software
HSTDCCC750	PS030591.D	2,4-DCAA	Abdul	6/10/2025 10:45:51 AM	mohammad	6/11/2025 2:16:12	Peak Integrated by Software
HSTDCCC750	PS030591.D	DCPA #2	Abdul	6/10/2025 10:45:51 AM	mohammad	6/11/2025 2:16:12	Peak Integrated by Software
HSTDCCC750	PS030591.D	MCPP	Abdul	6/10/2025 10:45:51 AM	mohammad	6/11/2025 2:16:12	Peak Integrated by Software
HSTDCCC750	PS030591.D	Picloram	Abdul	6/10/2025 10:45:51 AM	mohammad	6/11/2025 2:16:12	Peak Integrated by Software

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Fax : 908 789 8922

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QCBatch ID # PS060425

Review By	Abdul	Review On	6/5/2025 8:33:42 AM		
Supervise By	mohammad	Supervise On	6/6/2025 2:02:33 AM		
SubDirectory	PS060425	HP Acquire Method		HP Processing Method	ps060425 8151

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24553,PP24554,PP24556,PP24557,PP24558,PP24559,PP24560
CCC	PP24559
Internal Standard/PEM	
ICV/I.BLK	PP24562
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	HEXANE	PS030474.D	04 Jun 2025 10:31	AR\AJ	Ok
2	I.BLK	PS030475.D	04 Jun 2025 10:55	AR\AJ	Ok
3	HSTDICC200	PS030476.D	04 Jun 2025 11:19	AR\AJ	Ok,M
4	HSTDICC500	PS030477.D	04 Jun 2025 11:43	AR\AJ	Ok,M
5	HSTDICC750	PS030478.D	04 Jun 2025 12:07	AR\AJ	Ok,M
6	HSTDICC1000	PS030479.D	04 Jun 2025 12:31	AR\AJ	Ok,M
7	HSTDICC1500	PS030480.D	04 Jun 2025 12:55	AR\AJ	Ok,M
8	HSTDICV750	PS030481.D	04 Jun 2025 13:35	AR\AJ	Ok,M
9	I.BLK	PS030482.D	04 Jun 2025 13:59	AR\AJ	Ok
10	HSTDCCC750	PS030483.D	04 Jun 2025 14:23	AR\AJ	Ok,M
11	PB168207BL	PS030484.D	04 Jun 2025 14:47	AR\AJ	Ok
12	PB168207BS	PS030485.D	04 Jun 2025 15:12	AR\AJ	Ok,M
13	Q1872-17	PS030486.D	04 Jun 2025 15:36	AR\AJ	Dilution
14	Q1872-17DL	PS030487.D	04 Jun 2025 16:00	AR\AJ	Ok,M
15	I.BLK	PS030488.D	04 Jun 2025 16:26	AR\AJ	Ok
16	HSTDCCC750	PS030489.D	04 Jun 2025 16:50	AR\AJ	Ok,M
17	Q2159-01	PS030490.D	04 Jun 2025 17:14	AR\AJ	Ok
18	Q2160-01	PS030491.D	04 Jun 2025 17:38	AR\AJ	Ok
19	Q2160-05	PS030492.D	04 Jun 2025 18:02	AR\AJ	Ok
20	Q2173-06	PS030493.D	04 Jun 2025 18:26	AR\AJ	Ok,M
21	Q2173-12	PS030494.D	04 Jun 2025 18:51	AR\AJ	Ok,M

Alliance TECHNICAL GROUP
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Fax : 908 789 8922

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QCBatch ID # PS060425

Review By	Abdul	Review On	6/5/2025 8:33:42 AM		
Supervise By	mohammad	Supervise On	6/6/2025 2:02:33 AM		
SubDirectory	PS060425	HP Acquire Method		HP Processing Method	ps060425 8151

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24553,PP24554,PP24556,PP24557,PP24558,PP24559,PP24560
CCC	PP24559
Internal Standard/PEM	
ICV/I.BLK	PP24562
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	Q2173-18	PS030495.D	04 Jun 2025 19:15	AR\AJ	Ok,M
23	I.BLK	PS030496.D	04 Jun 2025 19:39	AR\AJ	Ok
24	HSTDCCC750	PS030497.D	04 Jun 2025 20:03	AR\AJ	Ok,M
25	Q2173-06MS	PS030498.D	04 Jun 2025 20:51	AR\AJ	Ok,M
26	Q2173-06MSD	PS030499.D	04 Jun 2025 21:15	AR\AJ	Ok,M
27	Q2160-05MS	PS030500.D	04 Jun 2025 21:40	AR\AJ	Ok,M
28	Q2160-05MSD	PS030501.D	04 Jun 2025 22:04	AR\AJ	Ok,M
29	Q2172-01	PS030502.D	04 Jun 2025 22:28	AR\AJ	Ok
30	Q2185-01	PS030503.D	04 Jun 2025 22:52	AR\AJ	Ok,M
31	Q2185-05	PS030504.D	04 Jun 2025 23:16	AR\AJ	Ok
32	I.BLK	PS030505.D	04 Jun 2025 23:40	AR\AJ	Ok
33	HSTDCCC750	PS030506.D	05 Jun 2025 00:04	AR\AJ	Ok,M
34	Q2177-03	PS030507.D	05 Jun 2025 00:52	AR\AJ	Ok,M
35	Q2177-05	PS030508.D	05 Jun 2025 01:16	AR\AJ	Ok
36	Q2177-07	PS030509.D	05 Jun 2025 01:40	AR\AJ	Ok,M
37	PB168263BL	PS030510.D	05 Jun 2025 02:04	AR\AJ	Ok
38	PB168263BS	PS030511.D	05 Jun 2025 02:28	AR\AJ	Ok,M
39	PB168224TB	PS030512.D	05 Jun 2025 02:53	AR\AJ	Ok
40	PB168254BL	PS030513.D	05 Jun 2025 03:17	AR\AJ	Ok
41	PB168254BS	PS030514.D	05 Jun 2025 03:41	AR\AJ	Ok,M
42	I.BLK	PS030515.D	05 Jun 2025 04:05	AR\AJ	Ok
43	HSTDCCC750	PS030516.D	05 Jun 2025 04:29	AR\AJ	Ok,M
44	Q2176-01	PS030517.D	05 Jun 2025 05:17	AR\AJ	Ok

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Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QCBatch ID # PS060425

Review By	Abdul	Review On	6/5/2025 8:33:42 AM		
Supervise By	mohammad	Supervise On	6/6/2025 2:02:33 AM		
SubDirectory	PS060425	HP Acquire Method		HP Processing Method	ps060425 8151

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24553,PP24554,PP24556,PP24557,PP24558,PP24559,PP24560
CCC	PP24559
Internal Standard/PEM	
ICV/I.BLK	PP24562
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

45	Q2176-02	PS030518.D	05 Jun 2025 05:41	AR\AJ	Ok,M
46	Q2176-03	PS030519.D	05 Jun 2025 06:05	AR\AJ	Ok
47	Q2176-04	PS030520.D	05 Jun 2025 06:29	AR\AJ	Not Ok
48	Q2176-05	PS030521.D	05 Jun 2025 06:53	AR\AJ	Ok
49	Q2176-06	PS030522.D	05 Jun 2025 07:17	AR\AJ	Ok,M
50	Q2176-07	PS030523.D	05 Jun 2025 07:41	AR\AJ	Ok,M
51	Q2176-08	PS030524.D	05 Jun 2025 08:05	AR\AJ	Ok
52	I.BLK	PS030525.D	05 Jun 2025 08:29	AR\AJ	Ok
53	HSTDCCC750	PS030526.D	05 Jun 2025 08:53	AR\AJ	Ok,M

M : Manual Integration

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Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QCBatch ID # PS060625

Review By	Abdul	Review On	6/9/2025 2:30:39 PM		
Supervise By	mohammad	Supervise On	6/10/2025 2:36:40 AM		
SubDirectory	PS060625	HP Acquire Method		HP Processing Method	ps060425 8151

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24553,PP24554,PP24556,PP24557,PP24558,PP24559,PP24560
CCC	PP24559
Internal Standard/PEM	
ICV/I.BLK	PP24562
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	HEXANE	PS030533.D	06 Jun 2025 11:43	AR\AJ	Ok
2	I.BLK	PS030534.D	06 Jun 2025 12:07	AR\AJ	Ok
3	HSTDCCC750	PS030535.D	06 Jun 2025 12:31	AR\AJ	Ok,M
4	PB168318BL	PS030536.D	06 Jun 2025 18:47	AR\AJ	Ok
5	PB168318BS	PS030537.D	06 Jun 2025 19:11	AR\AJ	Ok,M
6	Q2194-01	PS030538.D	06 Jun 2025 19:35	AR\AJ	Ok
7	Q2194-03	PS030539.D	06 Jun 2025 19:59	AR\AJ	Ok
8	Q2194-03MS	PS030540.D	06 Jun 2025 20:23	AR\AJ	Ok,M
9	Q2194-03MSD	PS030541.D	06 Jun 2025 20:48	AR\AJ	Ok,M
10	Q2227-01	PS030542.D	06 Jun 2025 21:12	AR\AJ	Ok
11	Q2228-01	PS030543.D	06 Jun 2025 21:36	AR\AJ	Ok
12	PB168329BL	PS030544.D	06 Jun 2025 22:00	AR\AJ	Ok
13	PB168329BS	PS030545.D	06 Jun 2025 22:24	AR\AJ	Ok,M
14	I.BLK	PS030546.D	06 Jun 2025 22:48	AR\AJ	Ok
15	HSTDCCC750	PS030547.D	06 Jun 2025 23:12	AR\AJ	Ok,M
16	Q2207-09	PS030548.D	06 Jun 2025 23:36	AR\AJ	Ok,M
17	Q2207-18	PS030549.D	07 Jun 2025 00:01	AR\AJ	Ok,M
18	Q2207-27	PS030550.D	07 Jun 2025 00:25	AR\AJ	Ok,M
19	Q2207-36	PS030551.D	07 Jun 2025 00:49	AR\AJ	Ok,M
20	Q2207-45	PS030552.D	07 Jun 2025 01:13	AR\AJ	Ok,M
21	Q2208-09	PS030553.D	07 Jun 2025 01:37	AR\AJ	Ok,M

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Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QCBatch ID # PS060625

Review By	Abdul	Review On	6/9/2025 2:30:39 PM		
Supervise By	mohammad	Supervise On	6/10/2025 2:36:40 AM		
SubDirectory	PS060625	HP Acquire Method		HP Processing Method	ps060425 8151

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24553,PP24554,PP24556,PP24557,PP24558,PP24559,PP24560
CCC	PP24559
Internal Standard/PEM	
ICV/I.BLK	PP24562
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	Q2208-18	PS030554.D	07 Jun 2025 02:01	AR\AJ	Ok,M
23	Q2208-27	PS030555.D	07 Jun 2025 02:25	AR\AJ	Ok,M
24	Q2208-36	PS030556.D	07 Jun 2025 02:50	AR\AJ	Ok,M
25	PB168271TB	PS030557.D	07 Jun 2025 03:14	AR\AJ	Ok,M
26	PB168311TB	PS030558.D	07 Jun 2025 03:38	AR\AJ	Ok,M
27	I.BLK	PS030559.D	07 Jun 2025 04:02	AR\AJ	Ok
28	HSTDCCC750	PS030560.D	07 Jun 2025 04:26	AR\AJ	Ok,M

M : Manual Integration

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Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QCBatch ID # PS060925

Review By	Abdul	Review On	6/10/2025 10:46:12 AM		
Supervise By	mohammad	Supervise On	6/11/2025 2:16:12 AM		
SubDirectory	PS060925	HP Acquire Method		HP Processing Method	ps060425 8151

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24553,PP24554,PP24556,PP24557,PP24558,PP24559,PP24560
CCC	PP24559
Internal Standard/PEM	
ICV/I.BLK	PP24562
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	HEXANE	PS030561.D	09 Jun 2025 11:29	AR\AJ	Ok
2	I.BLK	PS030562.D	09 Jun 2025 11:53	AR\AJ	Ok
3	HSTDCCC750	PS030563.D	09 Jun 2025 12:17	AR\AJ	Ok,M
4	Q2235-03	PS030564.D	09 Jun 2025 13:21	AR\AJ	Ok,M
5	Q2236-03	PS030565.D	09 Jun 2025 13:45	AR\AJ	Ok
6	Q2236-07	PS030566.D	09 Jun 2025 14:09	AR\AJ	Ok
7	Q2236-11	PS030567.D	09 Jun 2025 14:33	AR\AJ	Ok
8	Q2236-15	PS030568.D	09 Jun 2025 14:57	AR\AJ	Ok
9	Q2236-19	PS030569.D	09 Jun 2025 15:22	AR\AJ	Ok
10	Q2198-02	PS030570.D	09 Jun 2025 15:46	AR\AJ	Ok,M
11	Q2198-04	PS030571.D	09 Jun 2025 16:10	AR\AJ	Ok
12	Q2198-04MS	PS030572.D	09 Jun 2025 16:34	AR\AJ	Ok,M
13	Q2198-04MSD	PS030573.D	09 Jun 2025 16:58	AR\AJ	Ok,M
14	I.BLK	PS030574.D	09 Jun 2025 17:22	AR\AJ	Ok
15	HSTDCCC750	PS030575.D	09 Jun 2025 17:46	AR\AJ	Ok,M
16	Q2130-01	PS030576.D	09 Jun 2025 18:17	AR\AJ	Ok,M
17	Q2130-01MS	PS030577.D	09 Jun 2025 18:41	AR\AJ	Ok,M
18	Q2130-01MSD	PS030578.D	09 Jun 2025 19:05	AR\AJ	Ok,M
19	I.BLK	PS030579.D	09 Jun 2025 19:29	AR\AJ	Ok
20	HSTDCCC750	PS030580.D	09 Jun 2025 19:53	AR\AJ	Ok,M
21	Q2206-01	PS030581.D	09 Jun 2025 20:17	AR\AJ	ReRun

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Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QCBatch ID # PS060925

Review By	Abdul	Review On	6/10/2025 10:46:12 AM		
Supervise By	mohammad	Supervise On	6/11/2025 2:16:12 AM		
SubDirectory	PS060925	HP Acquire Method		HP Processing Method	ps060425 8151

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24553,PP24554,PP24556,PP24557,PP24558,PP24559,PP24560
CCC	PP24559
Internal Standard/PEM	
ICV/I.BLK	PP24562
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	Q2226-01	PS030582.D	09 Jun 2025 20:41	AR\AJ	Ok
23	Q2240-01	PS030583.D	09 Jun 2025 21:05	AR\AJ	Not Ok
24	Q2240-05	PS030584.D	09 Jun 2025 21:29	AR\AJ	Not Ok
25	Q2240-09	PS030585.D	09 Jun 2025 21:53	AR\AJ	Not Ok
26	Q2241-01	PS030586.D	09 Jun 2025 22:17	AR\AJ	Ok
27	Q2241-05	PS030587.D	09 Jun 2025 22:42	AR\AJ	Ok
28	Q2242-01	PS030588.D	09 Jun 2025 23:06	AR\AJ	Ok
29	Q2244-01	PS030589.D	09 Jun 2025 23:30	AR\AJ	Ok
30	I.BLK	PS030590.D	09 Jun 2025 23:54	AR\AJ	Ok
31	HSTDCCC750	PS030591.D	10 Jun 2025 00:18	AR\AJ	Ok,M

M : Manual Integration

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Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QCBatch ID # PS060425

Review By	Abdul	Review On	6/5/2025 8:33:42 AM		
Supervise By	mohammad	Supervise On	6/6/2025 2:02:33 AM		
SubDirectory	PS060425	HP Acquire Method		HP Processing Method	ps060425 8151

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24553,PP24554,PP24556,PP24557,PP24558,PP24559,PP24560
CCC	PP24559
Internal Standard/PEM	
ICV/I.BLK	PP24562
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	HEXANE	HEXANE	PS030474.D	04 Jun 2025 10:31		AR\AJ	Ok
2	I.BLK	I.BLK	PS030475.D	04 Jun 2025 10:55		AR\AJ	Ok
3	HSTDICC200	HSTDICC200	PS030476.D	04 Jun 2025 11:19		AR\AJ	Ok,M
4	HSTDICC500	HSTDICC500	PS030477.D	04 Jun 2025 11:43		AR\AJ	Ok,M
5	HSTDICC750	HSTDICC750	PS030478.D	04 Jun 2025 12:07		AR\AJ	Ok,M
6	HSTDICC1000	HSTDICC1000	PS030479.D	04 Jun 2025 12:31		AR\AJ	Ok,M
7	HSTDICC1500	HSTDICC1500	PS030480.D	04 Jun 2025 12:55		AR\AJ	Ok,M
8	HSTDICV750	ICVPS060425	PS030481.D	04 Jun 2025 13:35		AR\AJ	Ok,M
9	I.BLK	I.BLK	PS030482.D	04 Jun 2025 13:59		AR\AJ	Ok
10	HSTDCCC750	HSTDCCC750	PS030483.D	04 Jun 2025 14:23		AR\AJ	Ok,M
11	PB168207BL	PB168207BL	PS030484.D	04 Jun 2025 14:47		AR\AJ	Ok
12	PB168207BS	PB168207BS	PS030485.D	04 Jun 2025 15:12		AR\AJ	Ok,M
13	Q1872-17	HW0425-PT-HERB-SO	PS030486.D	04 Jun 2025 15:36	Need dilution	AR\AJ	Dilution
14	Q1872-17DL	HW0425-PT-HERB-SO	PS030487.D	04 Jun 2025 16:00		AR\AJ	Ok,M
15	I.BLK	I.BLK	PS030488.D	04 Jun 2025 16:26		AR\AJ	Ok
16	HSTDCCC750	HSTDCCC750	PS030489.D	04 Jun 2025 16:50		AR\AJ	Ok,M
17	Q2159-01	TP05-MHO-WC	PS030490.D	04 Jun 2025 17:14		AR\AJ	Ok
18	Q2160-01	TP04-MHG-WC	PS030491.D	04 Jun 2025 17:38		AR\AJ	Ok

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Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QCBatch ID # PS060425

Review By	Abdul	Review On	6/5/2025 8:33:42 AM		
Supervise By	mohammad	Supervise On	6/6/2025 2:02:33 AM		
SubDirectory	PS060425	HP Acquire Method		HP Processing Method	ps060425 8151

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24553,PP24554,PP24556,PP24557,PP24558,PP24559,PP24560
CCC	PP24559
Internal Standard/PEM	
ICV/I.BLK	PP24562
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	Q2160-05	TP05-MHH-WC	PS030492.D	04 Jun 2025 18:02		AR\AJ	Ok
20	Q2173-06	OR-400-CF-402B-COM	PS030493.D	04 Jun 2025 18:26		AR\AJ	Ok,M
21	Q2173-12	OR-400-CF-402B-COM	PS030494.D	04 Jun 2025 18:51		AR\AJ	Ok,M
22	Q2173-18	OR-400-CF-402B-COM	PS030495.D	04 Jun 2025 19:15		AR\AJ	Ok,M
23	I.BLK	I.BLK	PS030496.D	04 Jun 2025 19:39		AR\AJ	Ok
24	HSTDCCC750	HSTDCCC750	PS030497.D	04 Jun 2025 20:03		AR\AJ	Ok,M
25	Q2173-06MS	OR-400-CF-402B-COM	PS030498.D	04 Jun 2025 20:51	Comp#1,3 recovery fail	AR\AJ	Ok,M
26	Q2173-06MSD	OR-400-CF-402B-COM	PS030499.D	04 Jun 2025 21:15	Comp#1,3,14 recovery fail ,RPD Fail	AR\AJ	Ok,M
27	Q2160-05MS	TP05-MHH-WCMS	PS030500.D	04 Jun 2025 21:40	Comp#1,10 recovery fail	AR\AJ	Ok,M
28	Q2160-05MSD	TP05-MHH-WCMSD	PS030501.D	04 Jun 2025 22:04	Comp#1,10 recovery fail	AR\AJ	Ok,M
29	Q2172-01	TP06-MHQ	PS030502.D	04 Jun 2025 22:28		AR\AJ	Ok
30	Q2185-01	TP02-MHB-WC	PS030503.D	04 Jun 2025 22:52		AR\AJ	Ok,M
31	Q2185-05	TP01-MHA-WC	PS030504.D	04 Jun 2025 23:16		AR\AJ	Ok
32	I.BLK	I.BLK	PS030505.D	04 Jun 2025 23:40		AR\AJ	Ok
33	HSTDCCC750	HSTDCCC750	PS030506.D	05 Jun 2025 00:04		AR\AJ	Ok,M
34	Q2177-03	B-187-SB01	PS030507.D	05 Jun 2025 00:52		AR\AJ	Ok,M
35	Q2177-05	B-187-SB02	PS030508.D	05 Jun 2025 01:16		AR\AJ	Ok
36	Q2177-07	B-202-SB01	PS030509.D	05 Jun 2025 01:40		AR\AJ	Ok,M
37	PB168263BL	PB168263BL	PS030510.D	05 Jun 2025 02:04		AR\AJ	Ok

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Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QCBatch ID # PS060425

Review By	Abdul	Review On	6/5/2025 8:33:42 AM		
Supervise By	mohammad	Supervise On	6/6/2025 2:02:33 AM		
SubDirectory	PS060425	HP Acquire Method		HP Processing Method	ps060425 8151

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24553,PP24554,PP24556,PP24557,PP24558,PP24559,PP24560
CCC	PP24559
Internal Standard/PEM	
ICV/I.BLK	PP24562
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

38	PB168263BS	PB168263BS	PS030511.D	05 Jun 2025 02:28		AR\AJ	Ok,M
39	PB168224TB	PB168224TB	PS030512.D	05 Jun 2025 02:53		AR\AJ	Ok
40	PB168254BL	PB168254BL	PS030513.D	05 Jun 2025 03:17		AR\AJ	Ok
41	PB168254BS	PB168254BS	PS030514.D	05 Jun 2025 03:41		AR\AJ	Ok,M
42	I.BLK	I.BLK	PS030515.D	05 Jun 2025 04:05		AR\AJ	Ok
43	HSTDCCC750	HSTDCCC750	PS030516.D	05 Jun 2025 04:29		AR\AJ	Ok,M
44	Q2176-01	TP-46	PS030517.D	05 Jun 2025 05:17		AR\AJ	Ok
45	Q2176-02	TP-56	PS030518.D	05 Jun 2025 05:41		AR\AJ	Ok,M
46	Q2176-03	TP-25	PS030519.D	05 Jun 2025 06:05		AR\AJ	Ok
47	Q2176-04	TP-26	PS030520.D	05 Jun 2025 06:29	Surrogate low in both column	AR\AJ	Not Ok
48	Q2176-05	TP-28	PS030521.D	05 Jun 2025 06:53		AR\AJ	Ok
49	Q2176-06	TP-27	PS030522.D	05 Jun 2025 07:17		AR\AJ	Ok,M
50	Q2176-07	TP-31	PS030523.D	05 Jun 2025 07:41		AR\AJ	Ok,M
51	Q2176-08	TP-65	PS030524.D	05 Jun 2025 08:05		AR\AJ	Ok
52	I.BLK	I.BLK	PS030525.D	05 Jun 2025 08:29		AR\AJ	Ok
53	HSTDCCC750	HSTDCCC750	PS030526.D	05 Jun 2025 08:53		AR\AJ	Ok,M

M : Manual Integration

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Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QCBatch ID # PS060625

Review By	Abdul	Review On	6/9/2025 2:30:39 PM		
Supervise By	mohammad	Supervise On	6/10/2025 2:36:40 AM		
SubDirectory	PS060625	HP Acquire Method		HP Processing Method	ps060425 8151

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24553,PP24554,PP24556,PP24557,PP24558,PP24559,PP24560
CCC	PP24559
Internal Standard/PEM	
ICV/I.BLK	PP24562
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	HEXANE	HEXANE	PS030533.D	06 Jun 2025 11:43		AR\AJ	Ok
2	I.BLK	I.BLK	PS030534.D	06 Jun 2025 12:07		AR\AJ	Ok
3	HSTDCCC750	HSTDCCC750	PS030535.D	06 Jun 2025 12:31		AR\AJ	Ok,M
4	PB168318BL	PB168318BL	PS030536.D	06 Jun 2025 18:47		AR\AJ	Ok
5	PB168318BS	PB168318BS	PS030537.D	06 Jun 2025 19:11		AR\AJ	Ok,M
6	Q2194-01	COMP-12	PS030538.D	06 Jun 2025 19:35		AR\AJ	Ok
7	Q2194-03	COMP-13	PS030539.D	06 Jun 2025 19:59		AR\AJ	Ok
8	Q2194-03MS	COMP-13MS	PS030540.D	06 Jun 2025 20:23	some compound recovery fail	AR\AJ	Ok,M
9	Q2194-03MSD	COMP-13MSD	PS030541.D	06 Jun 2025 20:48	some compound recovery fail	AR\AJ	Ok,M
10	Q2227-01	TP07-MHH-WC	PS030542.D	06 Jun 2025 21:12		AR\AJ	Ok
11	Q2228-01	TP08-MHI-WC	PS030543.D	06 Jun 2025 21:36		AR\AJ	Ok
12	PB168329BL	PB168329BL	PS030544.D	06 Jun 2025 22:00		AR\AJ	Ok
13	PB168329BS	PB168329BS	PS030545.D	06 Jun 2025 22:24		AR\AJ	Ok,M
14	I.BLK	I.BLK	PS030546.D	06 Jun 2025 22:48		AR\AJ	Ok
15	HSTDCCC750	HSTDCCC750	PS030547.D	06 Jun 2025 23:12		AR\AJ	Ok,M
16	Q2207-09	BU-703-COMP-01	PS030548.D	06 Jun 2025 23:36		AR\AJ	Ok,M
17	Q2207-18	BU-703-COMP-02	PS030549.D	07 Jun 2025 00:01		AR\AJ	Ok,M
18	Q2207-27	BU-703-COMP-03	PS030550.D	07 Jun 2025 00:25		AR\AJ	Ok,M

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Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QCBatch ID # PS060625

Review By	Abdul	Review On	6/9/2025 2:30:39 PM		
Supervise By	mohammad	Supervise On	6/10/2025 2:36:40 AM		
SubDirectory	PS060625	HP Acquire Method		HP Processing Method	ps060425 8151

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24553,PP24554,PP24556,PP24557,PP24558,PP24559,PP24560
CCC	PP24559
Internal Standard/PEM	
ICV/I.BLK	PP24562
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	Q2207-36	BU-703-COMP-04	PS030551.D	07 Jun 2025 00:49		AR\AJ	Ok,M
20	Q2207-45	BU-703-COMP-05	PS030552.D	07 Jun 2025 01:13		AR\AJ	Ok,M
21	Q2208-09	BU-703-COMP-06	PS030553.D	07 Jun 2025 01:37		AR\AJ	Ok,M
22	Q2208-18	BU-703-COMP-07	PS030554.D	07 Jun 2025 02:01		AR\AJ	Ok,M
23	Q2208-27	BU-703-COMP-08	PS030555.D	07 Jun 2025 02:25		AR\AJ	Ok,M
24	Q2208-36	BU-703-COMP-09	PS030556.D	07 Jun 2025 02:50		AR\AJ	Ok,M
25	PB168271TB	PB168271TB	PS030557.D	07 Jun 2025 03:14		AR\AJ	Ok,M
26	PB168311TB	PB168311TB	PS030558.D	07 Jun 2025 03:38		AR\AJ	Ok,M
27	I.BLK	I.BLK	PS030559.D	07 Jun 2025 04:02		AR\AJ	Ok
28	HSTDCCC750	HSTDCCC750	PS030560.D	07 Jun 2025 04:26		AR\AJ	Ok,M

M : Manual Integration

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Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QCBatch ID # PS060925

Review By	Abdul	Review On	6/10/2025 10:46:12 AM		
Supervise By	mohammad	Supervise On	6/11/2025 2:16:12 AM		
SubDirectory	PS060925	HP Acquire Method		HP Processing Method	ps060425 8151

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24553,PP24554,PP24556,PP24557,PP24558,PP24559,PP24560
CCC	PP24559
Internal Standard/PEM	
ICV/I.BLK	PP24562
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	HEXANE	HEXANE	PS030561.D	09 Jun 2025 11:29		AR\AJ	Ok
2	I.BLK	I.BLK	PS030562.D	09 Jun 2025 11:53		AR\AJ	Ok
3	HSTDCCC750	HSTDCCC750	PS030563.D	09 Jun 2025 12:17	Picloram low in 1st column	AR\AJ	Ok,M
4	Q2235-03	WC-A2-08-C	PS030564.D	09 Jun 2025 13:21		AR\AJ	Ok,M
5	Q2236-03	WC-A4-05A-C	PS030565.D	09 Jun 2025 13:45		AR\AJ	Ok
6	Q2236-07	WC-A2-04-C	PS030566.D	09 Jun 2025 14:09		AR\AJ	Ok
7	Q2236-11	WC-A2-05-C	PS030567.D	09 Jun 2025 14:33		AR\AJ	Ok
8	Q2236-15	WC-A2-06-C	PS030568.D	09 Jun 2025 14:57		AR\AJ	Ok
9	Q2236-19	WC-A2-07-C	PS030569.D	09 Jun 2025 15:22		AR\AJ	Ok
10	Q2198-02	B-202-SB02	PS030570.D	09 Jun 2025 15:46		AR\AJ	Ok,M
11	Q2198-04	B-207-SB02	PS030571.D	09 Jun 2025 16:10		AR\AJ	Ok
12	Q2198-04MS	B-207-SB02MS	PS030572.D	09 Jun 2025 16:34	some compound recovery fail	AR\AJ	Ok,M
13	Q2198-04MSD	B-207-SB02MSD	PS030573.D	09 Jun 2025 16:58	some compound recovery fail	AR\AJ	Ok,M
14	I.BLK	I.BLK	PS030574.D	09 Jun 2025 17:22		AR\AJ	Ok
15	HSTDCCC750	HSTDCCC750	PS030575.D	09 Jun 2025 17:46		AR\AJ	Ok,M
16	Q2130-01	TP-3	PS030576.D	09 Jun 2025 18:17		AR\AJ	Ok,M
17	Q2130-01MS	TP-3MS	PS030577.D	09 Jun 2025 18:41		AR\AJ	Ok,M
18	Q2130-01MSD	TP-3MSD	PS030578.D	09 Jun 2025 19:05		AR\AJ	Ok,M

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QCBatch ID # PS060925

Review By	Abdul	Review On	6/10/2025 10:46:12 AM		
Supervise By	mohammad	Supervise On	6/11/2025 2:16:12 AM		
SubDirectory	PS060925	HP Acquire Method		HP Processing Method	ps060425 8151

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24553,PP24554,PP24556,PP24557,PP24558,PP24559,PP24560
CCC	PP24559
Internal Standard/PEM	
ICV/I.BLK	PP24562
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	I.BLK	I.BLK	PS030579.D	09 Jun 2025 19:29		AR\AJ	Ok
20	HSTDCCC750	HSTDCCC750	PS030580.D	09 Jun 2025 19:53		AR\AJ	Ok,M
21	Q2206-01	TP-1	PS030581.D	09 Jun 2025 20:17	Surrogate low in 2nd column	AR\AJ	ReRun
22	Q2226-01	TP06-MHI-WC	PS030582.D	09 Jun 2025 20:41		AR\AJ	Ok
23	Q2240-01	TP-3	PS030583.D	09 Jun 2025 21:05	2,4-D hit	AR\AJ	Not Ok
24	Q2240-05	TP-2	PS030584.D	09 Jun 2025 21:29	Surrogate low in both column	AR\AJ	Not Ok
25	Q2240-09	TP-1	PS030585.D	09 Jun 2025 21:53	Surrogate low in both column	AR\AJ	Not Ok
26	Q2241-01	TP-N	PS030586.D	09 Jun 2025 22:17		AR\AJ	Ok
27	Q2241-05	TP-S	PS030587.D	09 Jun 2025 22:42		AR\AJ	Ok
28	Q2242-01	TP09-MHJ	PS030588.D	09 Jun 2025 23:06		AR\AJ	Ok
29	Q2244-01	TP03-MHC	PS030589.D	09 Jun 2025 23:30		AR\AJ	Ok
30	I.BLK	I.BLK	PS030590.D	09 Jun 2025 23:54		AR\AJ	Ok
31	HSTDCCC750	HSTDCCC750	PS030591.D	10 Jun 2025 00:18		AR\AJ	Ok,M

M : Manual Integration

Alliance TECHNICAL GROUP

TCLP EXTRACTION LOGPAGE

PB168271

SOP ID : M1311-TCLP-16

SDG No : N/A

Weigh By : JP

Balance ID : WC SC-7

pH Meter ID : WC PH METER-1

Extraction By : JP

Filter By : JP

Pippete ID : WC

Tumbler ID : T-1 / T-2

TCLP Filter ID : 115525

Start Prep Date : 06/04/2025 **Time :** 15:00

End Prep Date : 06/05/2025 **Time :** 09:20

Combination Ratio : 20

ZHE Cleaning Batch : N/A

Initial Room Temperature: 24 °C

Final Room Temperature: 22 °C

TCLP Technician Signature : JP

Supervisor By : JP

Standared Name	MLS USED	STD REF. # FROM LOG
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Chemical Used	ML/SAMPLE U	Lot Number
TCLP-FLUID-1	N/A	WP112795
HCL-TCLP,1N	N/A	WP112797
HNO3-TCLP,1N	N/A	WP112799
pH Strips	N/A	W1931,W1934,W3171,W3172
pH Strips	W1940,W1941,W1942	W3166,W1938,W1939,
1 Liter Amber	N/A	90924-08
120ml Plastic bottle	N/A	2738
1:1 HNO3	N/A	MP84041

Extraction Conformance/Non-Conformance Comments:

Matrix spikes are added after fiftration and before preservation. TUMBLER T-1 /T-2 checked,30 rpm. q2208-36 is used for MS-MSD.

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
06/05/25 11:30	JP ICP Room	JP RS 1 EXT
	Preparation Group	Analysis Group 1 2 4 1 2 4

Alliance TECHNICAL GROUP

TCLP EXTRACTION LOGPAGE

PB168271

Sample ID	ClientID	TCLP Vessel ID	Sample Wt (g)	Volume Extraction Fluid #1 (mL)	Multi phasic	Phase Miscible	Phases Combined	Final Leachate PH	Metals Leachate Adj. PH	Prep Pos
PB168271TB	LEB271	16	N/A	2000	N/A	N/A	N/A	4.94	1.0	T-2
Q2192-01	SB-1	01	100.02	2000	N/A	N/A	N/A	8.2	1.0	T-1
Q2194-02	COMP-12	02	100.03	2000	N/A	N/A	N/A	6.2	1.5	T-1
Q2194-04	COMP-13	03	100.02	2000	N/A	N/A	N/A	6.0	1.5	T-1
Q2198-02	B-202-SB02	04	100.03	2000	N/A	N/A	N/A	4.0	1.0	T-1
Q2198-04	~~B-207-SB01~~ B-207-SB02	05	100.02	2000	N/A	N/A	N/A	5.8	1.5	T-1
Q2206-04	TP-1	06	100.02	2000	N/A	N/A	N/A	5.6	1.0	T-1
Q2207-09	BU-703-COMP-01	07	100.03	2000	N/A	N/A	N/A	4.5	1.5	T-1
Q2207-18	BU-703-COMP-02	08	100.04	2000	N/A	N/A	N/A	3.0	1.0	T-1
Q2207-27	BU-703-COMP-03	09	100.02	2000	N/A	N/A	N/A	3.0	1.5	T-1
Q2207-36	BU-703-COMP-04	10	100.03	2000	N/A	N/A	N/A	5.5	1.0	T-1
Q2207-45	BU-703-COMP-05	11	100.02	2000	N/A	N/A	N/A	3.0	1.5	T-2
Q2208-09	BU-703-COMP-06	12	100.03	2000	N/A	N/A	N/A	3.0	1.0	T-2
Q2208-18	BU-703-COMP-07	13	100.02	2000	N/A	N/A	N/A	3.0	1.5	T-2
Q2208-27	BU-703-COMP-08	14	100.01	2000	N/A	N/A	N/A	5.0	1.5	T-2
Q2208-36	BU-703-COMP-09	15	100.02	2000	N/A	N/A	N/A	5.6	1.0	T-2

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TCLP Solid Determination

PB168271

SampleID	ClientID	Sample Weight (g)	Filter Weight (g)	Filtrate (mL)	Filter + Solid (After 100°C)	% solids	% Dry Solids
PB168271TB	LEB271	N/A	N/A	N/A	N/A	N/A	N/A
Q2192-01	SB-1	N/A	N/A	N/A	N/A	100	N/A
Q2194-02	COMP-12	N/A	N/A	N/A	N/A	100	N/A
Q2194-04	COMP-13	N/A	N/A	N/A	N/A	100	N/A
Q2198-02	B-202-SB02	N/A	N/A	N/A	N/A	100	N/A
Q2198-04	~~B-207-SB01~~ B-207-SB02	N/A	N/A	N/A	N/A	100	N/A
Q2206-04	TP-1 TP	N/A	N/A	N/A	N/A	100	N/A
Q2207-09	BU-703-COMP-01 06-11-2025	N/A	N/A	N/A	N/A	100	N/A
Q2207-18	BU-703-COMP-02	N/A	N/A	N/A	N/A	100	N/A
Q2207-27	BU-703-COMP-03	N/A	N/A	N/A	N/A	100	N/A
Q2207-36	BU-703-COMP-04	N/A	N/A	N/A	N/A	100	N/A
Q2207-45	BU-703-COMP-05	N/A	N/A	N/A	N/A	100	N/A
Q2208-09	BU-703-COMP-06	N/A	N/A	N/A	N/A	100	N/A
Q2208-18	BU-703-COMP-07	N/A	N/A	N/A	N/A	100	N/A
Q2208-27	BU-703-COMP-08	N/A	N/A	N/A	N/A	100	N/A
Q2208-36	BU-703-COMP-09	N/A	N/A	N/A	N/A	100	N/A

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TCLP Fluid Determination

PB168271

Hot Block ID : WC S-1 / WC S-2

Thermometer ID : FLASHPOINT

SampleID	ClientID	Sample Weight (g)	Volume DI Water (mL)	PH after 5 min stir	PH after 10 min stir	Extraction Fluid 1 or 2	pH Extraction Fluid
PB168271TB	LEB271	N/A	N/A	N/A	N/A	#1	4.94
Q2192-01	SB-1	5.02	96.5	9.5	4.0	#1	4.94
Q2194-02	COMP-12	5.03	96.5	8.4	3.5	#1	4.94
Q2194-04	COMP-13	5.02	96.5	8.2	3.5	#1	4.94
Q2198-02	B-202-SB02	5.02	96.5	6.6	2.5	#1	4.94
Q2198-04	~~B-207-SB01~~ B-207-SB02	5.03	96.5	8.0	3.0	#1	4.94
Q2206-04	TP-1 JP	5.02	96.5	7.6	2.5	#1	4.94
Q2207-09	BU-703-COMP-01	5.03	96.5	7.0	2.0	#1	4.94
Q2207-18	BU-703-COMP-02 06-11-2025	5.02	96.5	5.5	1.5	#1	4.94
Q2207-27	BU-703-COMP-03	5.01	96.5	6.0	2.0	#1	4.94
Q2207-36	BU-703-COMP-04	5.02	96.5	7.2	2.0	#1	4.94
Q2207-45	BU-703-COMP-05	5.03	96.5	5.5	1.5	#1	4.94
Q2208-09	BU-703-COMP-06	5.02	96.5	5.6	2.0	#1	4.94
Q2208-18	BU-703-COMP-07	5.03	96.5	5.5	1.5	#1	4.94
Q2208-27	BU-703-COMP-08	5.02	96.5	6.0	2.0	#1	4.94
Q2208-36	BU-703-COMP-09	5.01	96.5	7.0	2.5	#1	4.94

Q2198

WORKLIST(Hardcopy Internal Chain)

WorkList Name : TCLP Q2198 **WorkList ID :** 189914 **Department :** TCLP Extraction **Date :** 06-04-2025 09:51:15

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2192-01	SB-1	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	L21	06/03/2025	1311
Q2194-02	COMP-12	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	L31	06/03/2025	1311
Q2194-04	COMP-13	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	L31	06/03/2025	1311
Q2198-02	B-202-SB02	Solid	TCLP Extraction	Cool 4 deg C	PORT06	N22	05/31/2025	1311
Q2198-04	~~B-207-SB01~~ B-207-SB02	Solid	TCLP Extraction	Cool 4 deg C	PORT06	N22	06/01/2025	1311
Q2206-04	TP-1	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	N31	06/04/2025	1311
Q2207-09	BU-703-COMP-01	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	N31	06/02/2025	1311
Q2207-18	BU-703-COMP-02	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	N31	06/02/2025	1311
Q2207-27	BU-703-COMP-03	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	N31	06/02/2025	1311
Q2207-36	BU-703-COMP-04	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	N31	06/02/2025	1311
Q2207-45	BU-703-COMP-05	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	N31	06/02/2025	1311
Q2208-09	BU-703-COMP-06	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	N31	06/02/2025	1311
Q2208-18	BU-703-COMP-07	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	N31	06/02/2025	1311
Q2208-27	BU-703-COMP-08	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	N31	06/02/2025	1311
Q2208-36	BU-703-COMP-09	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	N31	06/02/2025	1311

964 of 1607

Date/Time 06/04/25 12:.00

Raw Sample Received by:

Raw Sample Relinquished by:

Date/Time 06/04/25 17:30

Raw Sample Received by:

Raw Sample Relinquished by:

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PB168329

SOP ID:	M8151A-Herbicide-23				
Clean Up SOP #:	N/A			**Extraction Start Date :**	06/06/2025
Matrix :	Water			**Extraction Start Time :**	11:45
Weigh By:	N/A	**Extraction By:**	RS	**Extraction End Date :**	06/06/2025
Balance check:	N/A	**Filter By:**	RS	**Extraction End Time :**	18:25
Balance ID:	N/A	**pH Meter ID:**	N/A	**Concentration By:**	EH
pH Strip Lot#:	E3880	**Hood ID:**	4,5,7	**Supervisor By :**	RUPESH

Extraction Method: [√] Seperatory Funnel [ ] Continious Liquid/Liquid [ ] Sonication [ ] Waste Dilution [ ] Soxhlet

Standared Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Spike Sol 1	1.0ML	5/500 PPM	PP24595
Surrogate	1.0ML	5000 PPB	PP24601
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
Ether	N/A	E3881
Acidified Na2SO4	N/A	EP2621
NAOH 6N	N/A	EP2606
12N H2SO4	N/A	EP2605
NACL	N/A	M4459
ISO OCTANE	N/A	E3554
Diazomethane	N/A	EP2618
Hexane	N/A	E3938
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

pH Adjusted with 6N NaOH>12 prior to Hydrolysis, PH adjusted with cold 12N H2SO4<2 after Hydrolysis, Derivatization procedure is completed and samples are ready to Analyze, 40ml Vial Lot # 03-40BTS723.

KD Bath ID:	N/A	**Envap ID:**	NEVAP-02
KD Bath Temperature:	N/A	**Envap Temperature:**	40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
6/6/25	RS (Ext lab)	Pest./PCB Lab
18:30	**Preparation Group**	**Analysis Group**

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PrepBatch ID : PB168329

Analytical Method: M8151A-Herbicide-23 **Concentration Date:** 06/06/2025

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB168271TB	PB168271TB	TCLP Herbicide	100	6	RUPESH	ritesh	10			SEP-1
PB168311TB	PB168311TB	TCLP Herbicide	100	6	RUPESH	ritesh	10			2
PB168329BL	HBLK329	TCLP Herbicide	1000	6	RUPESH	ritesh	10			3
PB168329BS	HLCS329	TCLP Herbicide	1000	6	RUPESH	ritesh	10			4
Q2198-02	B-202-SB02	TCLP Herbicide	100	6	RUPESH	ritesh	10	A		5
Q2198-04	B-207-SB02	TCLP Herbicide	100	6	RUPESH	ritesh	10	A		6
Q2198-04MS	B-207-SB02MS	TCLP Herbicide	100	6	RUPESH	ritesh	10	A		7
Q2198-04MSD	B-207-SB02MSD	TCLP Herbicide	100	6	RUPESH	ritesh	10	A		8
Q2207-09	BU-703-COMP-01	TCLP Herbicide	100	6	RUPESH	ritesh	10	A		9
Q2207-18	BU-703-COMP-02	TCLP Herbicide	100	6	RUPESH	ritesh	10	A		10
Q2207-27	BU-703-COMP-03	TCLP Herbicide	100	6	RUPESH	ritesh	10	A		11
Q2207-36	BU-703-COMP-04	TCLP Herbicide	100	6	RUPESH	ritesh	10	A		12
Q2207-45	BU-703-COMP-05	TCLP Herbicide	100	6	RUPESH	ritesh	10	A		13
Q2208-09	BU-703-COMP-06	TCLP Herbicide	100	6	RUPESH	ritesh	10	A		14
Q2208-18	BU-703-COMP-07	TCLP Herbicide	100	6	RUPESH	ritesh	10	A		15
Q2208-27	BU-703-COMP-08	TCLP Herbicide	100	6	RUPESH	ritesh	10	A		16
Q2208-36	BU-703-COMP-09	TCLP Herbicide	100	6	RUPESH	ritesh	10	A		SEP-1
Q2235-03	WC-A2-08-C	TCLP Herbicide	100	6	RUPESH	ritesh	10	A		2
Q2236-03	WC-A4-05A-C	TCLP Herbicide	100	6	RUPESH	ritesh	10	A		3
Q2236-07	WC-A2-04-C	TCLP Herbicide	100	6	RUPESH	ritesh	10	A		4
Q2236-11	WC-A2-05-C	TCLP Herbicide	100	6	RUPESH	ritesh	10	A		5
Q2236-15	WC-A2-06-C	TCLP Herbicide	100	6	RUPESH	ritesh	10	A		6
Q2236-19	WC-A2-07-C	TCLP Herbicide	100	6	RUPESH	ritesh	10	A		7

RS
6/6

* **Extracts relinquished on the same date as received.**

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TCLP EXTRACTION LOGPAGE

PB168311

11

Sample ID	ClientID	TCLP Vessel ID	Sample Wt (g)	Volume Extraction Fluid #1 (mL)	Multi phasic	Phase Miscible	Phases Combined	Final Leachate PH	Metals Leachate Adj. PH	Prep Pos
PB168311TB	LEB311	16	N/A	2000	N/A	N/A	N/A	4.93	1.0	T-2
Q2226-04	TP06-MHI-WC	01	100.02	2000	N/A	N/A	N/A	4.0	1.0	T-1
Q2227-04	TP07-MHH-WC	02	100.03	2000	N/A	N/A	N/A	3.0	1.5	T-1
Q2228-04	TP08-MHI-WC	03	100.02	2000	N/A	N/A	N/A	3.0	1.0	T-1
Q2235-03	WC-A2-08-C	04	100.01	2000	N/A	N/A	N/A	12.0	1.5	T-1
Q2236-03	WC-A4-05A-C	05	100.02	2000	N/A	N/A	N/A	12.0	1.0	T-1
Q2236-07	WC-A2-04-C	06	100.03	2000	N/A	N/A	N/A	12.0	1.5	T-1
Q2236-11	WC-A2-05-C	07	100.00	2000	N/A	N/A	N/A	12.0	1.0	T-1
Q2236-15	WC-A2-06-C	08	100.01	2000	N/A	N/A	N/A	11.5	1.5	T-1
Q2236-19	WC-A2-07-C	09	100.02	2000	N/A	N/A	N/A	11.5	1.0	T-1
Q2240-04	TP-3	10	100.03	2000	N/A	N/A	N/A	7.2	1.5	T-1
Q2240-08	TP-2	11	100.02	2000	N/A	N/A	N/A	7.0	1.0	T-2
Q2240-12	TP-1	12	100.02	2000	N/A	N/A	N/A	7.0	1.0	T-2
Q2241-04	TP-N	13	100.04	2000	N/A	N/A	N/A	6.2	1.5	T-2
Q2241-08	TP-S	14	100.02	2000	N/A	N/A	N/A	7.0	1.0	T-2
Q2242-04	TP09-MHJ	15	100.01	2000	N/A	N/A	N/A	3.0	1.5	T-2

06106125

11:30

Alliance TECHNICAL GROUP

TCLP EXTRACTION LOGPAGE

PB168271

Sample ID	ClientID	TCLP Vessel ID	Sample Wt (g)	Volume Extraction Fluid #1 (mL)	Multi phasic	Phase Miscible	Phases Combined	Final Leachate PH	Metals Leachate Adj. PH	Prep Pos
PB168271TB	LEB271	16	N/A	2000	N/A	N/A	N/A	4.94	1.0	T-2
Q2192-01	SB-1	01	100.02	2000	N/A	N/A	N/A	8.2	1.0	T-1
Q2194-02	COMP-12	02	100.03	2000	N/A	N/A	N/A	6.2	1.5	T-1
Q2194-04	COMP-13	03	100.02	2000	N/A	N/A	N/A	6.0	1.5	T-1
Q2198-02	B-202-SB02	04	100.03	2000	N/A	N/A	N/A	4.0	1.0	T-1
Q2198-04	B-207-SB01	05	100.02	2000	N/A	N/A	N/A	5.8	1.5	T-1
Q2206-04	TP-1	06	100.02	2000	N/A	N/A	N/A	5.6	1.0	T-1
Q2207-09	BU-703-COMP-01	07	100.03	2000	N/A	N/A	N/A	4.5	1.5	T-1
Q2207-18	BU-703-COMP-02	08	100.04	2000	N/A	N/A	N/A	3.0	1.0	T-1
Q2207-27	BU-703-COMP-03	09	100.02	2000	N/A	N/A	N/A	3.0	1.5	T-1
Q2207-36	BU-703-COMP-04	10	100.03	2000	N/A	N/A	N/A	5.5	1.0	T-1
Q2207-45	BU-703-COMP-05	11	100.02	2000	N/A	N/A	N/A	3.0	1.5	T-2
Q2208-09	BU-703-COMP-06	12	100.03	2000	N/A	N/A	N/A	3.0	1.0	T-2
Q2208-18	BU-703-COMP-07	13	100.02	2000	N/A	N/A	N/A	3.0	1.5	T-2
Q2208-27	BU-703-COMP-08	14	100.01	2000	N/A	N/A	N/A	5.0	1.5	T-2
Q2208-36	BU-703-COMP-09	15	100.02	2000	N/A	N/A	N/A	5.6	1.0	T-2

06/05/25
11.30

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LAB CHRONICLE

OrderID:	Q2198	**OrderDate:**	6/3/2025 2:31:00 PM
Client:	Portal Partners Tri-Venture	**Project:**	Amtrak Sawtooth Bridges 2025
Contact:	Joseph Krupansky	**Location:**	N22,VOA Ref. #2 Soil,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2198-02	**B-202-SB02**	**TCLP**			**05/31/25**			**06/03/25**
			TCLP Herbicide	8151A		06/06/25	06/09/25	
Q2198-04	**B-207-SB02**	**TCLP**			**06/01/25**			**06/03/25**
			TCLP Herbicide	8151A		06/06/25	06/09/25	

SAMPLE DATA

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	05/31/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	06/03/25
Client Sample ID:	B-202-SB02	SDG No.:	Q2198
Lab Sample ID:	Q2198-01	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	71.9
Sample Wt/Vol:	30.05 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
06/11/25 08:45	06/12/25 2:48	PB168408

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	0.30	J	1	0.19	1.39	mg/kg	FC069171.D
Aliphatic C12-C16	Aliphatic C12-C16	0.52	J	1	0.15	0.93	mg/kg	FC069171.D
Aliphatic C16-C21	Aliphatic C16-C21	0.51	J	1	0.18	1.39	mg/kg	FC069171.D
Aliphatic C21-C28	Aliphatic C21-C28	0.74	U	1	0.74	1.85	mg/kg	FC069171.D
Aliphatic C28-C40	Aliphatic C28-C40	1.64	U	1	1.64	2.78	mg/kg	FC069171.D
Aromatic C10-C12	Aromatic C10-C12	0.38	J	1	0.17	0.93	mg/kg	FD049446.D
Aromatic C12-C16	Aromatic C12-C16	0.57	J	1	0.32	1.39	mg/kg	FD049446.D
Aromatic C16-C21	Aromatic C16-C21	3.87		1	0.56	2.31	mg/kg	FD049446.D
Aromatic C21-C36	Aromatic C21-C36	2.39	J	1	1.65	3.70	mg/kg	FD049446.D
Total AliphaticEPH	Total AliphaticEPH	2.90	U		2.90	8.34	mg/kg	
Total AromaticEPH	Total AromaticEPH	7.21	J		2.69	8.33	mg/kg	
Total EPH	Total EPH	8.55	J		5.59	16.7	mg/kg	

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	05/31/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	06/03/25
Client Sample ID:	B-202-SB02	SDG No.:	Q2198
Lab Sample ID:	Q2198-01	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	71.9
Sample Wt/Vol:	30.05 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FC069171.D	1	06/11/25	06/12/25	PB168408

CAS Number	Parameter		Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
Aliphatic C9-C12	Aliphatic C9-C12		0.30	J	0.19	1.39	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16		0.52	J	0.15	0.93	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21		0.51	J	0.18	1.39	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28		0.74	U	0.74	1.85	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40		1.64	U	1.64	2.78	mg/kg
SURROGATES							
3383-33-2	1-chlorooctadecane (SURR)		38.0		40 - 140	76%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)		0.00		40 - 140	0%	SPK: 50

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Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q2198-01	Acq On:	12 Jun 2025 02:48
Client Sample ID:	B-202-SB02	Operator:	YP/AJ
Data file:	FC069171.D	Misc:	
Instrument:	FID_C	ALS Vial:	23
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.303	6.605	346355	3.276	300	ug/ml
Aliphatic C12-C16	6.606	10.010	575063	5.639	200	ug/ml
Aliphatic C16-C21	10.011	13.380	542966	5.548	300	ug/ml
Aliphatic C21-C28	13.381	17.048	711682	7.587	400	ug/ml
Aliphatic C28-C40	17.049	22.033	1572284	16.649	600	ug/ml
Aliphatic EPH	3.303	22.033	3748350	38.699		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	13.115	13.115	3406894	37.98		ug/ml
Aliphatic C9-C28	3.303	17.048	2176066	22.05	1200	ug/ml

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	05/31/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	06/03/25
Client Sample ID:	B-202-SB02	SDG No.:	Q2198
Lab Sample ID:	Q2198-01	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	71.9
Sample Wt/Vol:	30.05 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FD049446.D	1	06/11/25	06/12/25	PB168408

CAS Number	Parameter		Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
Aromatic C10-C12	Aromatic C10-C12		0.38	J	0.17	0.93	mg/kg
Aromatic C12-C16	Aromatic C12-C16		0.57	J	0.32	1.39	mg/kg
Aromatic C16-C21	Aromatic C16-C21		3.87		0.56	2.31	mg/kg
Aromatic C21-C36	Aromatic C21-C36		2.39	J	1.65	3.70	mg/kg
SURROGATES							
580-13-2	2-Bromonaphthalene (SURR)		39.1		40 - 140	78%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)		39.0		40 - 140	78%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)		28.3		40 - 140	57%	SPK: 50

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Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	Q2198-01	Acq On:	12 Jun 2025 02:48
Client Sample ID:	B-202-SB02	Operator:	YP/AJ
Data file:	FD049446.D	Misc:	
Instrument:	FID_D	ALS Vial:	73
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.424	6.168	679679	4.062	200	ug/ml
Aromatic C12-C16	6.169	8.797	1161478	6.194	300	ug/ml
Aromatic C16-C21	8.798	13.088	7732346	41.855	500	ug/ml
Aromatic C21-C36	13.089	18.509	3740686	25.788	800	ug/ml
Aromatic EPH	4.424	18.509	13314189	77.898		ug/ml
ortho-Terphenyl (SURR)	11.644	11.644	5682762	28.31		ug/ml
2-Bromonaphthalene (SURR)	7.734	7.734	6493936	39.06		ug/ml
2-Flurobiphenyl (SURR)	8.599	8.599	4465390	39.03		ug/ml

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	06/01/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	06/03/25
Client Sample ID:	B-207-SB02	SDG No.:	Q2198
Lab Sample ID:	Q2198-03	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	52.1
Sample Wt/Vol:	30.06 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
06/11/25 08:45	06/12/25 3:27	PB168408

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	0.36	J	1	0.27	1.92	mg/kg	FC069172.D
Aliphatic C12-C16	Aliphatic C12-C16	0.83	J	1	0.21	1.28	mg/kg	FC069172.D
Aliphatic C16-C21	Aliphatic C16-C21	0.62	J	1	0.25	1.92	mg/kg	FC069172.D
Aliphatic C21-C28	Aliphatic C21-C28	1.02	U	1	1.02	2.55	mg/kg	FC069172.D
Aliphatic C28-C40	Aliphatic C28-C40	2.45	J	1	2.26	3.83	mg/kg	FC069172.D
Aromatic C10-C12	Aromatic C10-C12	0.44	J	1	0.23	1.28	mg/kg	FD049447.D
Aromatic C12-C16	Aromatic C12-C16	0.52	J	1	0.44	1.92	mg/kg	FD049447.D
Aromatic C16-C21	Aromatic C16-C21	2.66	J	1	0.77	3.19	mg/kg	FD049447.D
Aromatic C21-C36	Aromatic C21-C36	3.04	J	1	2.28	5.11	mg/kg	FD049447.D
Total AliphaticEPH	Total AliphaticEPH	4.26	J		4.01	11.5	mg/kg	
Total AromaticEPH	Total AromaticEPH	6.65	J		3.72	11.5	mg/kg	
Total EPH	Total EPH	10.9	J		7.72	23.0	mg/kg	

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	06/01/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	06/03/25
Client Sample ID:	B-207-SB02	SDG No.:	Q2198
Lab Sample ID:	Q2198-03	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	52.1
Sample Wt/Vol:	30.06 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FC069172.D	1	06/11/25	06/12/25	PB168408

CAS Number	Parameter		Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
Aliphatic C9-C12	Aliphatic C9-C12		0.36	J	0.27	1.92	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16		0.83	J	0.21	1.28	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21		0.62	J	0.25	1.92	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28		1.02	U	1.02	2.55	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40		2.45	J	2.26	3.83	mg/kg
SURROGATES							
3383-33-2	1-chlorooctadecane (SURR)		51.3		40 - 140	103%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)		0.00		40 - 140	0%	SPK: 50

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Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q2198-03	Acq On:	12 Jun 2025 03:27
Client Sample ID:	B-207-SB02	Operator:	YP/AJ
Data file:	FC069172.D	Misc:	
Instrument:	FID_C	ALS Vial:	24
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.303	6.605	300108	2.839	300	ug/ml
Aliphatic C12-C16	6.606	10.010	666338	6.534	200	ug/ml
Aliphatic C16-C21	10.011	13.380	473479	4.838	300	ug/ml
Aliphatic C21-C28	13.381	17.048	701712	7.481	400	ug/ml
Aliphatic C28-C40	17.049	22.033	1814208	19.21	600	ug/ml
Aliphatic EPH	3.303	22.033	3955845	40.901		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	13.116	13.116	4598589	51.26		ug/ml
Aliphatic C9-C28	3.303	17.048	2141637	21.692	1200	ug/ml

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	06/01/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	06/03/25
Client Sample ID:	B-207-SB02	SDG No.:	Q2198
Lab Sample ID:	Q2198-03	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	52.1
Sample Wt/Vol:	30.06 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FD049447.D	1	06/11/25	06/12/25	PB168408

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	0.44	J	0.23	1.28	mg/kg
Aromatic C12-C16	Aromatic C12-C16	0.52	J	0.44	1.92	mg/kg
Aromatic C16-C21	Aromatic C16-C21	2.66	J	0.77	3.19	mg/kg
Aromatic C21-C36	Aromatic C21-C36	3.04	J	2.28	5.11	mg/kg
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	43.2		40 - 140	86%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	42.3		40 - 140	85%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	36.9		40 - 140	74%	SPK: 50

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Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	Q2198-03	Acq On:	12 Jun 2025 03:27
Client Sample ID:	B-207-SB02	Operator:	YP/AJ
Data file:	FD049447.D	Misc:	
Instrument:	FID_D	ALS Vial:	74
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.424	6.168	570310	3.408	200	ug/ml
Aromatic C12-C16	6.169	8.797	759368	4.049	300	ug/ml
Aromatic C16-C21	8.798	13.088	3849368	20.837	500	ug/ml
Aromatic C21-C36	13.089	18.509	3456759	23.83	800	ug/ml
Aromatic EPH	4.424	18.509	8635805	52.124		ug/ml
2-Bromonaphthalene (SURR)	7.735	7.735	7184963	43.22		ug/ml
2-Flurobiphenyl (SURR)	8.600	8.600	4834587	42.26		ug/ml
ortho-Terphenyl (SURR)	11.646	11.646	7408683	36.91		ug/ml

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	05/31/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	06/03/25
Client Sample ID:	B-202-GW01	SDG No.:	Q2198
Lab Sample ID:	Q2198-05	Matrix:	Water
Analytical Method:	NJEPH	% Solid:	0
Sample Wt/Vol:	990 Units: mL	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :	SW3510		

Prep Date :	Date Analyzed :	Prep Batch ID
06/06/25 09:10	06/09/25 18:58	PB168324

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	8.41	J	1	8.36	30.3	ug/l	FC069138.D
Aliphatic C12-C16	Aliphatic C12-C16	13.6	U	1	13.6	20.2	ug/l	FC069138.D
Aliphatic C16-C21	Aliphatic C16-C21	13.5	J	1	8.42	30.3	ug/l	FC069138.D
Aliphatic C21-C28	Aliphatic C21-C28	17.7	J	1	12.6	40.4	ug/l	FC069138.D
Aliphatic C28-C40	Aliphatic C28-C40	45.9	J	1	24.0	60.6	ug/l	FC069138.D
Aromatic C10-C12	Aromatic C10-C12	9.15	J	1	2.09	20.2	ug/l	FD049425.D
Aromatic C12-C16	Aromatic C12-C16	13.3	J	1	4.30	30.3	ug/l	FD049425.D
Aromatic C16-C21	Aromatic C16-C21	37.0	J	1	8.35	50.5	ug/l	FD049425.D
Aromatic C21-C36	Aromatic C21-C36	42.4	J	1	24.0	80.8	ug/l	FD049425.D
Total AliphaticEPH	Total AliphaticEPH	85.5	J		67.0	182	ug/l	
Total AromaticEPH	Total AromaticEPH	102	J		38.7	182	ug/l	
Total EPH	Total EPH	187	J		106	364	ug/l	

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	05/31/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	06/03/25
Client Sample ID:	B-202-GW01	SDG No.:	Q2198
Lab Sample ID:	Q2198-05	Matrix:	Water
Analytical Method:	NJEPH	% Solid:	0
Sample Wt/Vol:	990 Units: mL	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :	SW3510		

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FC069138.D	1	06/06/25	06/09/25	PB168324

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C12	Aliphatic C9-C12	8.41	J	8.36	30.3	ug/l
Aliphatic C12-C16	Aliphatic C12-C16	13.6	U	13.6	20.2	ug/l
Aliphatic C16-C21	Aliphatic C16-C21	13.5	J	8.42	30.3	ug/l
Aliphatic C21-C28	Aliphatic C21-C28	17.7	J	12.6	40.4	ug/l
Aliphatic C28-C40	Aliphatic C28-C40	45.9	J	24.0	60.6	ug/l
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	62.3		40 - 140	125%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	0.00		40 - 140	0%	SPK: 50

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Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q2198-05	Acq On:	09 Jun 2025 18:58
Client Sample ID:	B-202-GW01	Operator:	YP/AJ
Data file:	FC069138.D	Misc:	
Instrument:	FID_C	ALS Vial:	15
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.299	6.602	440128	4.163	300	ug/ml
Aliphatic C12-C16	6.603	10.008	661041	6.482	200	ug/ml
Aliphatic C16-C21	10.009	13.379	654679	6.69	300	ug/ml
Aliphatic C21-C28	13.380	17.047	823828	8.782	400	ug/ml
Aliphatic C28-C40	17.048	22.037	2147319	22.738	600	ug/ml
Aliphatic EPH	3.299	22.037	4726995	48.855		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	13.116	13.116	5587369	62.28		ug/ml
Aliphatic C9-C28	3.299	17.047	2579676	26.117	1200	ug/ml

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	05/31/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	06/03/25
Client Sample ID:	B-202-GW01	SDG No.:	Q2198
Lab Sample ID:	Q2198-05	Matrix:	Water
Analytical Method:	NJEPH	% Solid:	0
Sample Wt/Vol:	990 Units: mL	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :	SW3510		

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FD049425.D	1	06/06/25	06/10/25	PB168324

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	9.15	J	2.09	20.2	ug/l
Aromatic C12-C16	Aromatic C12-C16	13.3	J	4.30	30.3	ug/l
Aromatic C16-C21	Aromatic C16-C21	37.0	J	8.35	50.5	ug/l
Aromatic C21-C36	Aromatic C21-C36	42.4	J	24.0	80.8	ug/l
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	37.2		40 - 140	74%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	35.3		40 - 140	71%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	22.3		40 - 140	45%	SPK: 50

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Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	Q2198-05	Acq On:	10 Jun 2025 11:50
Client Sample ID:	B-202-GW01	Operator:	YP/AJ
Data file:	FD049425.D	Misc:	
Instrument:	FID_D	ALS Vial:	61
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.425	6.169	757874	4.529	200	ug/ml
Aromatic C12-C16	6.170	8.798	1232842	6.574	300	ug/ml
Aromatic C16-C21	8.799	13.089	3387704	18.338	500	ug/ml
Aromatic C21-C36	13.090	18.511	3044293	20.987	800	ug/ml
Aromatic EPH	4.425	18.511	8422713	50.427		ug/ml
2-Bromonaphthalene (SURR)	7.732	7.732	6191325	37.24		ug/ml
2-Flurobiphenyl (SURR)	8.598	8.598	4035092	35.27		ug/ml
ortho-Terphenyl (SURR)	11.642	11.642	4467631	22.26		ug/ml

QC SUMMARY

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SOIL EPH SURROGATE RECOVERY

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM CASE No.: Q2198 SAS No.: Q2198 SDG No.: Q2198

Run Number: FC060925AL

Client SAMPLE NO.	1-chlorooctadecane (SURR)			TOT OUT
PB168324BL	60			0
PB168324BS	75			0
PB168324BSD	78			0
B-202-GW01	125			0

	QC LIMITS
1-chlorooctadecane (SURR)	(40-140)

Column to be used to flag recovery values
* Values outside of contract required QC Limits
D Surrogate diluted out

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SOIL EPH SURROGATE RECOVERY

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM CASE No.: Q2198 SAS No.: Q2198 SDG No.: Q2198

Run Number: FC061125AL

Client SAMPLE NO.	1-chlorooctadecane (SURR)			TOT OUT
PB168408BL	60			0
PB168408BS	76			0
PB168408BSD	77			0
B-187-SB01MS	139			0
B-187-SB01MSD	136			0
B-202-SB02	76			0
B-207-SB02	103			0

	QC LIMITS
1-chlorooctadecane (SURR)	(40-140)

Column to be used to flag recovery values
* Values outside of contract required QC Limits
D Surrogate diluted out

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SOIL EPH SURROGATE RECOVERY

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM CASE No.: Q2198 SAS No.: Q2198 SDG No.: Q2198

Run Number: FD060925AR

Client SAMPLE NO.	2-Bromonaphthalene (SURR)	2-Flurobiphenyl (SURR)	ortho-Terphenyl (SURR)	TOT OUT
PB168324BL	62	61	58	0
PB168324BS	68	67	57	0
PB168324BSD	63	62	53	0

	QC LIMITS
2-Bromonaphthalene (SURR)	(40-140)
2-Flurobiphenyl (SURR)	(40-140)
ortho-Terphenyl (SURR)	(40-140)

Column to be used to flag recovery values
* Values outside of contract required QC Limits
D Surrogate diluted out

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SOIL EPH SURROGATE RECOVERY

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM CASE No.: Q2198 SAS No.: Q2198 SDG No.: Q2198

Run Number: FD061025AR

Client SAMPLE NO.	2-Bromonaphthalene (SURR)	2-Flurobiphenyl (SURR)	ortho-Terphenyl (SURR)	TOT OUT
B-202-GW01	74	71	45	0

	QC LIMITS
2-Bromonaphthalene (SURR)	(40-140)
2-Flurobiphenyl (SURR)	(40-140)
ortho-Terphenyl (SURR)	(40-140)

Column to be used to flag recovery values
* Values outside of contract required QC Limits
D Surrogate diluted out

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SOIL EPH SURROGATE RECOVERY

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM CASE No.: Q2198 SAS No.: Q2198 SDG No.: Q2198

Run Number: FD061125AR

Client SAMPLE NO.	2-Bromonaphthalene (SURR)	2-Flurobiphenyl (SURR)	ortho-Terphenyl (SURR)	TOT OUT
PB168408BL	67	65	63	0
PB168408BS	73	72	62	0
PB168408BSD	67	66	57	0
B-202-SB02	78	78	57	0
B-207-SB02	86	85	74	0

	QC LIMITS
2-Bromonaphthalene (SURR)	(40-140)
2-Flurobiphenyl (SURR)	(40-140)
ortho-Terphenyl (SURR)	(40-140)

Column to be used to flag recovery values
* Values outside of contract required QC Limits
D Surrogate diluted out

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SOIL EPH SURROGATE RECOVERY

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM CASE No.: Q2198 SAS No.: Q2198 SDG No.: Q2198

Run Number: FD061325AR

Client SAMPLE NO.	2-Bromonaphthalene (SURR)	2-Flurobiphenyl (SURR)	ortho-Terphenyl (SURR)	TOT OUT
B-187-SB01MS	76	74	65	0
B-187-SB01MSD	77	75	66	0

	QC LIMITS
2-Bromonaphthalene (SURR)	(40-140)
2-Flurobiphenyl (SURR)	(40-140)
ortho-Terphenyl (SURR)	(40-140)

Column to be used to flag recovery values
* Values outside of contract required QC Limits
D Surrogate diluted out

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SOIL EPH SURROGATE RECOVERY

	QC LIMITS
2-Bromonaphthalene (SURR)	(40-140)
2-Flurobiphenyl (SURR)	(40-140)
ortho-Terphenyl (SURR)	(40-140)

Column to be used to flag recovery values
* Values outside of contract required QC Limits
D Surrogate diluted out

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SOLID EPH MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** Portal Partners Tri-Venture

Lab Code: CHEM **Cas No:** Q2198 **SAS No :** Q2198 **SDG No:** Q2198

Sample No : Q2177-02MS **Datafile:** FC069165.D **Client ID :** B-187-SB01MS

COMPOUND	SPIKE ADDED mg/kg	SAMPLE CONCENTRATION mg/kg	MS/MSD CONCENTRATION mg/kg	% REC	Qual	QC LIMITS
Aliphatic C9-C12	11.9	1.10	7.50	54		(40-140)
Aliphatic C12-C16	7.9	3.37	9.37	76		(40-140)
Aliphatic C16-C21	11.9	0.65	8.98	70		(40-140)
Aliphatic C21-C28	15.8	5.91	17.2	71		(40-140)
Aliphatic C28-C40	23.7	6.40	22.5	68		(40-140)

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SOLID EPH MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** Portal Partners Tri-Venture

Lab Code: CHEM **Cas No:** Q2198 **SAS No :** Q2198 **SDG No:** Q2198

Sample No : Q2177-02MSD **Datafile:** FC069166.D **Client ID :** B-187-SB01MSD

COMPOUND	SPIKE ADDED mg/kg	SAMPLE CONCENTRATION mg/kg	MS/MSD CONCENTRATION mg/kg	% REC	Qual	RPD |	QC LIMITS	QC Limit Of RPD
Aliphatic C9-C12	11.9	1.10	7.51	54		0.19 |	(40-140)	50
Aliphatic C12-C16	7.9	3.37	9.32	75		0.79 |	(40-140)	50
Aliphatic C16-C21	11.9	0.65	8.85	69		1.58 |	(40-140)	50
Aliphatic C21-C28	15.8	5.91	16.7	68		4.44 |	(40-140)	50
Aliphatic C28-C40	23.7	6.40	22.3	67		1.19 |	(40-140)	50

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SOLID EPH MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** Portal Partners Tri-Venture

Lab Code: CHEM **Cas No:** Q2198 **SAS No :** Q2198 **SDG No:** Q2198

Sample No : Q2177-02MS **Datafile:** FD049484.D **Client ID :** B-187-SB01MS

COMPOUND	SPIKE ADDED mg/kg	SAMPLE CONCENTRATION mg/kg	MS/MSD CONCENTRATION mg/kg	% REC	Qual	QC LIMITS
Aromatic C10-C12	7.9	0.46	2.67	28	*	(40-140)
Aromatic C12-C16	11.9	0.63	4.47	32	*	(40-140)
Aromatic C16-C21	19.8	2.27	10.5	42		(40-140)
Aromatic C21-C36	31.6	1.89	15.7	44		(40-140)

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SOLID EPH MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** Portal Partners Tri-Venture

Lab Code: CHEM **Cas No:** Q2198 **SAS No :** Q2198 **SDG No:** Q2198

Sample No : Q2177-02MSD **Datafile:** FD049485.D **Client ID :** B-187-SB01MSD

COMPOUND	SPIKE ADDED mg/kg	SAMPLE CONCENTRATION mg/kg	MS/MSD CONCENTRATION mg/kg	% REC	Qual	RPD |	QC LIMITS	QC Limit Of RPD
Aromatic C10-C12	7.9	0.46	2.73	29	*	2.83 |	(40-140)	50
Aromatic C12-C16	11.9	0.63	4.61	34	*	3.64 |	(40-140)	50
Aromatic C16-C21	19.8	2.27	10.6	42		1.43 |	(40-140)	50
Aromatic C21-C36	31.6	1.89	15.8	44		0.91 |	(40-140)	50

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WATER EPH LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** Portal Partners Tri-Venture

Lab Code: CHEM **Cas No:** Q2198 **SAS No :** Q2198 **SDG No:** Q2198

Sample No : PB168324BS **Datafile:** FC069135.D **Client ID :** PB168324BS

COMPOUND	SPIKE ADDED ug/l	LCS/LCSD CONCENTRATION ug/l	% REC	Qual	QC LIMITS
Aliphatic C9-C12	300	148	49		(40-140)
Aliphatic C12-C16	200	123	62		(40-140)
Aliphatic C16-C21	300	209	70		(40-140)
Aliphatic C21-C28	400	298	74		(40-140)
Aliphatic C28-C40	600	420	70		(40-140)

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WATER EPH LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** Portal Partners Tri-Venture

Lab Code: CHEM **Cas No:** Q2198 **SAS No :** Q2198 **SDG No:** Q2198

Sample No : PB168324BSD **Datafile:** FC069136.D **Client ID :** PB168324BSD

COMPOUND	SPIKE ADDED ug/l	LCS/LCSD CONCENTRATION ug/l	% REC	Qual	RPD |	QC LIMITS	QC Limit Of RPD
Aliphatic C9-C12	300	155	52		4.7|	(40-140)	25
Aliphatic C12-C16	200	128	64		4|	(40-140)	25
Aliphatic C16-C21	300	216	72		3.2|	(40-140)	25
Aliphatic C21-C28	400	305	76		2.3|	(40-140)	25
Aliphatic C28-C40	600	443	74		5.3|	(40-140)	25

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SOLID EPH LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** Portal Partners Tri-Venture

Lab Code: CHEM **Cas No:** Q2198 **SAS No :** Q2198 **SDG No:** Q2198

Sample No : PB168408BS **Datafile:** FC069158.D **Client ID :** PB168408BS

COMPOUND	SPIKE ADDED mg/kg	LCS/LCSD CONCENTRATION mg/kg	% REC	Qual	QC LIMITS
Aliphatic C9-C12	10	4.97	50		(40-140)
Aliphatic C12-C16	6.7	4.11	62		(40-140)
Aliphatic C16-C21	10	7.02	70		(40-140)
Aliphatic C21-C28	13.3	10.0	75		(40-140)
Aliphatic C28-C40	20.0	14.6	73		(40-140)

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SOLID EPH LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** Portal Partners Tri-Venture

Lab Code: CHEM **Cas No:** Q2198 **SAS No :** Q2198 **SDG No:** Q2198

Sample No : PB168408BSD **Datafile:** FC069159.D **Client ID :** PB168408BSD

COMPOUND	SPIKE ADDED mg/kg	LCS/LCSD CONCENTRATION mg/kg	% REC	Qual	RPD |	QC LIMITS	QC Limit Of RPD
Aliphatic C9-C12	10	5.03	50		1.3|	(40-140)	25
Aliphatic C12-C16	6.7	4.15	62		0.98|	(40-140)	25
Aliphatic C16-C21	10	7.07	71		0.8|	(40-140)	25
Aliphatic C21-C28	13.3	10.1	76		1.1|	(40-140)	25
Aliphatic C28-C40	20.0	15.0	75		2.8|	(40-140)	25

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WATER EPH LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** Portal Partners Tri-Venture

Lab Code: CHEM **Cas No:** Q2198 **SAS No :** Q2198 **SDG No:** Q2198

Sample No : PB168324BS **Datafile:** FD049416.D **Client ID :** PB168324BS

COMPOUND	SPIKE ADDED ug/l	LCS/LCSD CONCENTRATION ug/l	% REC	Qual	QC LIMITS
Aromatic C10-C12	200	91.0	46		(40-140)
Aromatic C12-C16	300	143	48		(40-140)
Aromatic C16-C21	500	271	54		(40-140)
Aromatic C21-C36	800	515	64		(40-140)

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WATER EPH LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** Portal Partners Tri-Venture

Lab Code: CHEM **Cas No:** Q2198 **SAS No :** Q2198 **SDG No:** Q2198

Sample No : PB168324BSD **Datafile:** FD049417.D **Client ID :** PB168324BSD

COMPOUND	SPIKE ADDED ug/l	LCS/LCSD CONCENTRATION ug/l	% REC	Qual	RPD |	QC LIMITS	QC Limit Of RPD
Aromatic C10-C12	200	83.6	42		8.5|	(40-140)	25
Aromatic C12-C16	300	132	44		8.1|	(40-140)	25
Aromatic C16-C21	500	254	51		6.5|	(40-140)	25
Aromatic C21-C36	800	494	62		4.2|	(40-140)	25

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SOLID EPH LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** Portal Partners Tri-Venture

Lab Code: CHEM **Cas No:** Q2198 **SAS No :** Q2198 **SDG No:** Q2198

Sample No : PB168408BS **Datafile:** FD049433.D **Client ID :** PB168408BS

COMPOUND	SPIKE ADDED mg/kg	LCS/LCSD CONCENTRATION mg/kg	% REC	Qual	QC LIMITS
Aromatic C10-C12	6.7	3.20	48		(40-140)
Aromatic C12-C16	10	5.11	51		(40-140)
Aromatic C16-C21	16.7	9.80	59		(40-140)
Aromatic C21-C36	26.6	18.5	69		(40-140)

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SOLID EPH LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** Portal Partners Tri-Venture

Lab Code: CHEM **Cas No:** Q2198 **SAS No :** Q2198 **SDG No:** Q2198

Sample No : PB168408BSD **Datafile:** FD049434.D **Client ID :** PB168408BSD

COMPOUND	SPIKE ADDED mg/kg	LCS/LCSD CONCENTRATION mg/kg	% REC	Qual	RPD |	QC LIMITS	QC Limit Of RPD
Aromatic C10-C12	6.7	2.95	44		8|	(40-140)	25
Aromatic C12-C16	10	4.68	47		8.7|	(40-140)	25
Aromatic C16-C21	16.7	9.01	54		8.3|	(40-140)	25
Aromatic C21-C36	26.6	17.5	66		5.5|	(40-140)	25

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4B
METHOD BLANK SUMMARY

EPA SAMPLE NO.
PB168324BL

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q2198 SAS No.: Q2198 SDG NO.: Q2198

Instrument ID: FID_C Lab Sample ID: PB168324BL

Matrix: (soil/water) Water Date Extracted: 6/6/2025 9:10:00 AM

Level: (low/med) low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID
PB168324BS	PB168324BS
PB168324BSD	PB168324BSD
B-202-GW01	Q2198-05

COMMENTS:

Form IV

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4B
METHOD BLANK SUMMARY

EPA SAMPLE NO.
PB168408BL

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q2198 SAS No.: Q2198 SDG NO.: Q2198

Instrument ID: FID_C Lab Sample ID: PB168408BL

Matrix: (soil/water) Solid Date Extracted: 6/11/2025 8:45:00 A

Level: (low/med) low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID
PB168408BS	PB168408BS
PB168408BSD	PB168408BSD
B-187-SB01MS	Q2177-02MS
B-187-SB01MSD	Q2177-02MSD
B-202-SB02	Q2198-01
B-207-SB02	Q2198-03

COMMENTS:

QC SAMPLE DATA

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB168324BL	SDG No.:	Q2198
Lab Sample ID:	PB168324BL	Matrix:	Water
Analytical Method:	NJEPH	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :	SW3510		

Prep Date :	Date Analyzed :	Prep Batch ID
06/06/25 09:10	06/09/25 16:17	PB168324

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	8.28	U	1	8.28	30.0	ug/l	FC069134.D
Aliphatic C12-C16	Aliphatic C12-C16	13.5	U	1	13.5	20.0	ug/l	FC069134.D
Aliphatic C16-C21	Aliphatic C16-C21	8.34	U	1	8.34	30.0	ug/l	FC069134.D
Aliphatic C21-C28	Aliphatic C21-C28	12.5	U	1	12.5	40.0	ug/l	FC069134.D
Aliphatic C28-C40	Aliphatic C28-C40	23.8	U	1	23.8	60.0	ug/l	FC069134.D
Aromatic C10-C12	Aromatic C10-C12	2.07	U	1	2.07	20.0	ug/l	FD049415.D
Aromatic C12-C16	Aromatic C12-C16	4.26	U	1	4.26	30.0	ug/l	FD049415.D
Aromatic C16-C21	Aromatic C16-C21	8.27	U	1	8.27	50.0	ug/l	FD049415.D
Aromatic C21-C36	Aromatic C21-C36	23.8	U	1	23.8	80.0	ug/l	FD049415.D
Total AliphaticEPH	Total AliphaticEPH	66.4	U		66.4	180	ug/l	
Total AromaticEPH	Total AromaticEPH	38.4	U		38.4	180	ug/l	
Total EPH	Total EPH	105	U		105	360	ug/l	

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

Alliance TECHNICAL GROUP
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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB168324BL	SDG No.:	Q2198
Lab Sample ID:	PB168324BL	Matrix:	Water
Analytical Method:	NJEPH	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :	SW3510		

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FC069134.D	1	06/06/25	06/09/25	PB168324

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C12	Aliphatic C9-C12	8.28	U	8.28	30.0	ug/l
Aliphatic C12-C16	Aliphatic C12-C16	13.5	U	13.5	20.0	ug/l
Aliphatic C16-C21	Aliphatic C16-C21	8.34	U	8.34	30.0	ug/l
Aliphatic C21-C28	Aliphatic C21-C28	12.5	U	12.5	40.0	ug/l
Aliphatic C28-C40	Aliphatic C28-C40	23.8	U	23.8	60.0	ug/l
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	29.9		40 - 140	60%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	0.00		40 - 140	0%	SPK: 50

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Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	PB168324BL	Acq On:	09 Jun 2025 16:17
Client Sample ID:	PB168324BL	Operator:	YP/AJ
Data file:	FC069134.D	Misc:	
Instrument:	FID_C	ALS Vial:	11
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.299	6.602	0	0	300	ug/ml
Aliphatic C12-C16	6.603	10.008	0	0	200	ug/ml
Aliphatic C16-C21	10.009	13.379	0	0	300	ug/ml
Aliphatic C21-C28	13.380	17.047	0	0	400	ug/ml
Aliphatic C28-C40	17.048	22.037	0	0	600	ug/ml
Aliphatic EPH	3.299	22.037	0	0		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	13.113	13.113	2680219	29.88		ug/ml
Aliphatic C9-C28	3.299	17.047	0	0	1200	ug/ml

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Report of Analysis

Client:	Portal Partners Tri-Venture		Date Collected:		
Project:	Amtrak Sawtooth Bridges 2025		Date Received:		
Client Sample ID:	PB168324BL		SDG No.:	Q2198	
Lab Sample ID:	PB168324BL		Matrix:	Water	
Analytical Method:	NJEPH		% Solid:	0	
Sample Wt/Vol:	1000	Units: mL	Final Vol:	2000	uL
Soil Aliquot Vol:		uL	Test:	EPH	
Prep Method :	SW3510				

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FD049415.D	1	06/06/25	06/09/25	PB168324

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	2.07	U	2.07	20.0	ug/l
Aromatic C12-C16	Aromatic C12-C16	4.26	U	4.26	30.0	ug/l
Aromatic C16-C21	Aromatic C16-C21	8.27	U	8.27	50.0	ug/l
Aromatic C21-C36	Aromatic C21-C36	23.8	U	23.8	80.0	ug/l
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	31.2		40 - 140	62%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	30.3		40 - 140	61%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	29.2		40 - 140	58%	SPK: 50

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Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	PB168324BL	Acq On:	09 Jun 2025 16:17
Client Sample ID:	PB168324BL	Operator:	YP/AJ
Data file:	FD049415.D	Misc:	
Instrument:	FID_D	ALS Vial:	61
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic EPH	4.424	18.512	0	0		ug/ml
2-Bromonaphthalene (SURR)	7.733	7.733	5192860	31.24		ug/ml
2-Flurobiphenyl (SURR)	8.598	8.598	3467147	30.31		ug/ml
ortho-Terphenyl (SURR)	11.645	11.645	5861022	29.2		ug/ml
Aromatic C10-C12	4.424	6.169	0	0	200	ug/ml
Aromatic C12-C16	6.170	8.798	0	0	300	ug/ml
Aromatic C16-C21	8.799	13.089	0	0	500	ug/ml
Aromatic C21-C36	13.090	18.512	0	0	800	ug/ml

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB168408BL	SDG No.:	Q2198
Lab Sample ID:	PB168408BL	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	100
Sample Wt/Vol:	30.01 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
06/11/25 08:45	06/11/25 16:33	PB168408

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	0.14	U	1	0.14	1.00	mg/kg	FC069157.D
Aliphatic C12-C16	Aliphatic C12-C16	0.11	U	1	0.11	0.67	mg/kg	FC069157.D
Aliphatic C16-C21	Aliphatic C16-C21	0.13	U	1	0.13	1.00	mg/kg	FC069157.D
Aliphatic C21-C28	Aliphatic C21-C28	0.53	U	1	0.53	1.33	mg/kg	FC069157.D
Aliphatic C28-C40	Aliphatic C28-C40	1.18	U	1	1.18	2.00	mg/kg	FC069157.D
Aromatic C10-C12	Aromatic C10-C12	0.12	U	1	0.12	0.67	mg/kg	FD049432.D
Aromatic C12-C16	Aromatic C12-C16	0.23	U	1	0.23	1.00	mg/kg	FD049432.D
Aromatic C16-C21	Aromatic C16-C21	0.40	U	1	0.40	1.67	mg/kg	FD049432.D
Aromatic C21-C36	Aromatic C21-C36	1.19	U	1	1.19	2.67	mg/kg	FD049432.D
Total AliphaticEPH	Total AliphaticEPH	2.09	U		2.09	6.00	mg/kg	
Total AromaticEPH	Total AromaticEPH	1.94	U		1.94	6.01	mg/kg	
Total EPH	Total EPH	4.03	U		4.03	12.0	mg/kg	

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB168408BL	SDG No.:	Q2198
Lab Sample ID:	PB168408BL	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	100
Sample Wt/Vol:	30.01 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FC069157.D	1	06/11/25	06/11/25	PB168408

CAS Number	Parameter		Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
Aliphatic C9-C12	Aliphatic C9-C12		0.14	U	0.14	1.00	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16		0.11	U	0.11	0.67	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21		0.13	U	0.13	1.00	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28		0.53	U	0.53	1.33	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40		1.18	U	1.18	2.00	mg/kg
SURROGATES							
3383-33-2	1-chlorooctadecane (SURR)		30.1		40 - 140	60%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)		0.00		40 - 140	0%	SPK: 50

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Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	PB168408BL	Acq On:	11 Jun 2025 16:33
Client Sample ID:	PB168408BL	Operator:	YP/AJ
Data file:	FC069157.D	Misc:	
Instrument:	FID_C	ALS Vial:	11
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.303	6.605	0	0	300	ug/ml
Aliphatic C12-C16	6.606	10.010	0	0	200	ug/ml
Aliphatic C16-C21	10.011	13.380	0	0	300	ug/ml
Aliphatic C21-C28	13.381	17.048	0	0	400	ug/ml
Aliphatic C28-C40	17.049	22.033	0	0	600	ug/ml
Aliphatic EPH	3.303	22.033	0	0		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	13.115	13.115	2699214	30.09		ug/ml
Aliphatic C9-C28	3.303	17.048	0	0	1200	ug/ml

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB168408BL	SDG No.:	Q2198
Lab Sample ID:	PB168408BL	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	100
Sample Wt/Vol:	30.01 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FD049432.D	1	06/11/25	06/11/25	PB168408

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	0.12	U	0.12	0.67	mg/kg
Aromatic C12-C16	Aromatic C12-C16	0.23	U	0.23	1.00	mg/kg
Aromatic C16-C21	Aromatic C16-C21	0.40	U	0.40	1.67	mg/kg
Aromatic C21-C36	Aromatic C21-C36	1.19	U	1.19	2.67	mg/kg
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	33.6		40 - 140	67%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	32.5		40 - 140	65%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	31.4		40 - 140	63%	SPK: 50

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Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	PB168408BL	Acq On:	11 Jun 2025 16:33
Client Sample ID:	PB168408BL	Operator:	YP/AJ
Data file:	FD049432.D	Misc:	
Instrument:	FID_D	ALS Vial:	61
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.424	6.168	0	0	200	ug/ml
Aromatic C12-C16	6.169	8.797	0	0	300	ug/ml
Aromatic C16-C21	8.798	13.088	0	0	500	ug/ml
Aromatic C21-C36	13.089	18.509	0	0	800	ug/ml
Aromatic EPH	4.424	18.509	0	0		ug/ml
2-Bromonaphthalene (SURR)	7.733	7.733	5580932	33.57		ug/ml
2-Flurobiphenyl (SURR)	8.598	8.598	3722980	32.54		ug/ml
ortho-Terphenyl (SURR)	11.645	11.645	6306403	31.42		ug/ml

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB168324BS	SDG No.:	Q2198
Lab Sample ID:	PB168324BS	Matrix:	Water
Analytical Method:	NJEPH	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :	SW3510		

Prep Date :	Date Analyzed :	Prep Batch ID
06/06/25 09:10	06/09/25 16:57	PB168324

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	148		1	8.28	30.0	ug/l	FC069135.D
Aliphatic C12-C16	Aliphatic C12-C16	123		1	13.5	20.0	ug/l	FC069135.D
Aliphatic C16-C21	Aliphatic C16-C21	209		1	8.34	30.0	ug/l	FC069135.D
Aliphatic C21-C28	Aliphatic C21-C28	298		1	12.5	40.0	ug/l	FC069135.D
Aliphatic C28-C40	Aliphatic C28-C40	420		1	23.8	60.0	ug/l	FC069135.D
Aromatic C10-C12	Aromatic C10-C12	91.0		1	2.07	20.0	ug/l	FD049416.D
Aromatic C12-C16	Aromatic C12-C16	143		1	4.26	30.0	ug/l	FD049416.D
Aromatic C16-C21	Aromatic C16-C21	271		1	8.27	50.0	ug/l	FD049416.D
Aromatic C21-C36	Aromatic C21-C36	515		1	23.8	80.0	ug/l	FD049416.D
Total AliphaticEPH	Total AliphaticEPH	1200			66.4	180	ug/l	
Total AromaticEPH	Total AromaticEPH	1020			38.4	180	ug/l	
Total EPH	Total EPH	2220			105	360	ug/l	

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB168324BS	SDG No.:	Q2198
Lab Sample ID:	PB168324BS	Matrix:	Water
Analytical Method:	NJEPH	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :	SW3510		

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FC069135.D	1	06/06/25	06/09/25	PB168324

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C12	Aliphatic C9-C12	148		8.28	30.0	ug/l
Aliphatic C12-C16	Aliphatic C12-C16	123		13.5	20.0	ug/l
Aliphatic C16-C21	Aliphatic C16-C21	209		8.34	30.0	ug/l
Aliphatic C21-C28	Aliphatic C21-C28	298		12.5	40.0	ug/l
Aliphatic C28-C40	Aliphatic C28-C40	420		23.8	60.0	ug/l
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	37.5		40 - 140	75%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	0.00		40 - 140	0%	SPK: 50

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Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	PB168324BS	Acq On:	09 Jun 2025 16:57
Client Sample ID:	PB168324BS	Operator:	YP/AJ
Data file:	FC069135.D	Misc:	
Instrument:	FID_C	ALS Vial:	12
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.299	6.602	7850856	74.263	300	ug/ml
Aliphatic C12-C16	6.603	10.008	6291363	61.689	200	ug/ml
Aliphatic C16-C21	10.009	13.379	10246363	104.699	300	ug/ml
Aliphatic C21-C28	13.380	17.047	14009671	149.351	400	ug/ml
Aliphatic C28-C40	17.048	22.037	19850508	210.194	600	ug/ml
Aliphatic EPH	3.299	22.037	58248761	600.195		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	13.113	13.113	3366566	37.53		ug/ml
Aliphatic C9-C28	3.299	17.047	38398253	390.002	1200	ug/ml

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Report of Analysis

Client:	Portal Partners Tri-Venture		Date Collected:		
Project:	Amtrak Sawtooth Bridges 2025		Date Received:		
Client Sample ID:	PB168324BS		SDG No.:	Q2198	
Lab Sample ID:	PB168324BS		Matrix:	Water	
Analytical Method:	NJEPH		% Solid:	0	
Sample Wt/Vol:	1000	Units: mL	Final Vol:	2000	uL
Soil Aliquot Vol:		uL	Test:	EPH	
Prep Method :	SW3510				

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FD049416.D	1	06/06/25	06/09/25	PB168324

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	91.0		2.07	20.0	ug/l
Aromatic C12-C16	Aromatic C12-C16	143		4.26	30.0	ug/l
Aromatic C16-C21	Aromatic C16-C21	271		8.27	50.0	ug/l
Aromatic C21-C36	Aromatic C21-C36	515		23.8	80.0	ug/l
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	34.1		40 - 140	68%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	33.4		40 - 140	67%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	28.7		40 - 140	57%	SPK: 50

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Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	PB168324BS	Acq On:	09 Jun 2025 16:57
Client Sample ID:	PB168324BS	Operator:	YP/AJ
Data file:	FD049416.D	Misc:	
Instrument:	FID_D	ALS Vial:	62
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic EPH	4.424	18.512	83543638	510.779		ug/ml
2-Bromonaphthalene (SURR)	7.733	7.733	5669143	34.1		ug/ml
2-Flurobiphenyl (SURR)	8.599	8.599	3820043	33.39		ug/ml
ortho-Terphenyl (SURR)	11.645	11.645	5766961	28.73		ug/ml
Aromatic C10-C12	4.424	6.169	7612744	45.491	200	ug/ml
Aromatic C12-C16	6.170	8.798	13453369	71.742	300	ug/ml
Aromatic C16-C21	8.799	13.089	25095627	135.843	500	ug/ml
Aromatic C21-C36	13.090	18.512	37381898	257.703	800	ug/ml

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB168408BS	SDG No.:	Q2198
Lab Sample ID:	PB168408BS	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	100
Sample Wt/Vol:	30.02 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
06/11/25 08:45	06/11/25 17:15	PB168408

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	4.97		1	0.14	1.00	mg/kg	FC069158.D
Aliphatic C12-C16	Aliphatic C12-C16	4.11		1	0.11	0.67	mg/kg	FC069158.D
Aliphatic C16-C21	Aliphatic C16-C21	7.02		1	0.13	1.00	mg/kg	FC069158.D
Aliphatic C21-C28	Aliphatic C21-C28	10.0		1	0.53	1.33	mg/kg	FC069158.D
Aliphatic C28-C40	Aliphatic C28-C40	14.6		1	1.18	2.00	mg/kg	FC069158.D
Aromatic C10-C12	Aromatic C10-C12	3.20		1	0.12	0.67	mg/kg	FD049433.D
Aromatic C12-C16	Aromatic C12-C16	5.11		1	0.23	1.00	mg/kg	FD049433.D
Aromatic C16-C21	Aromatic C16-C21	9.80		1	0.40	1.67	mg/kg	FD049433.D
Aromatic C21-C36	Aromatic C21-C36	18.5		1	1.19	2.66	mg/kg	FD049433.D
Total AliphaticEPH	Total AliphaticEPH	40.7			2.09	5.99	mg/kg	
Total AromaticEPH	Total AromaticEPH	36.6			1.94	6.00	mg/kg	
Total EPH	Total EPH	77.3			4.03	12.0	mg/kg	

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB168408BS	SDG No.:	Q2198
Lab Sample ID:	PB168408BS	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	100
Sample Wt/Vol:	30.02 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FC069158.D	1	06/11/25	06/11/25	PB168408

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C12	Aliphatic C9-C12	4.97		0.14	1.00	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16	4.11		0.11	0.67	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21	7.02		0.13	1.00	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28	10.0		0.53	1.33	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	14.6		1.18	2.00	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	38.0		40 - 140	76%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	0.00		40 - 140	0%	SPK: 50

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Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	PB168408BS	Acq On:	11 Jun 2025 17:15
Client Sample ID:	PB168408BS	Operator:	YP/AJ
Data file:	FC069158.D	Misc:	
Instrument:	FID_C	ALS Vial:	12
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.303	6.605	7878783	74.527	300	ug/ml
Aliphatic C12-C16	6.606	10.010	6284249	61.619	200	ug/ml
Aliphatic C16-C21	10.011	13.380	10319394	105.445	300	ug/ml
Aliphatic C21-C28	13.381	17.048	14134902	150.686	400	ug/ml
Aliphatic C28-C40	17.049	22.033	20659158	218.757	600	ug/ml
Aliphatic EPH	3.303	22.033	59276486	611.033		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	13.116	13.116	3406395	37.97		ug/ml
Aliphatic C9-C28	3.303	17.048	38617328	392.277	1200	ug/ml

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB168408BS	SDG No.:	Q2198
Lab Sample ID:	PB168408BS	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	100
Sample Wt/Vol:	30.02 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FD049433.D	1	06/11/25	06/11/25	PB168408

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	3.20		0.12	0.67	mg/kg
Aromatic C12-C16	Aromatic C12-C16	5.11		0.23	1.00	mg/kg
Aromatic C16-C21	Aromatic C16-C21	9.80		0.40	1.67	mg/kg
Aromatic C21-C36	Aromatic C21-C36	18.5		1.19	2.66	mg/kg
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	36.6		40 - 140	73%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	36.1		40 - 140	72%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	31.0		40 - 140	62%	SPK: 50

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Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	PB168408BS	Acq On:	11 Jun 2025 17:15
Client Sample ID:	PB168408BS	Operator:	YP/AJ
Data file:	FD049433.D	Misc:	
Instrument:	FID_D	ALS Vial:	62
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.424	6.168	8036884	48.026	200	ug/ml
Aromatic C12-C16	6.169	8.797	14391225	76.743	300	ug/ml
Aromatic C16-C21	8.798	13.088	27187051	147.164	500	ug/ml
Aromatic C21-C36	13.089	18.509	40239912	277.406	800	ug/ml
Aromatic EPH	4.424	18.509	89855072	549.338		ug/ml
2-Bromonaphthalene (SURR)	7.733	7.733	6082670	36.59		ug/ml
2-Flurobiphenyl (SURR)	8.599	8.599	4126519	36.07		ug/ml
ortho-Terphenyl (SURR)	11.645	11.645	6218341	30.98		ug/ml

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB168324BSD	SDG No.:	Q2198
Lab Sample ID:	PB168324BSD	Matrix:	Water
Analytical Method:	NJEPH	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :	SW3510		

Prep Date :	Date Analyzed :	Prep Batch ID
06/06/25 09:10	06/09/25 17:37	PB168324

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	155		1	8.28	30.0	ug/l	FC069136.D
Aliphatic C12-C16	Aliphatic C12-C16	128		1	13.5	20.0	ug/l	FC069136.D
Aliphatic C16-C21	Aliphatic C16-C21	216		1	8.34	30.0	ug/l	FC069136.D
Aliphatic C21-C28	Aliphatic C21-C28	305		1	12.5	40.0	ug/l	FC069136.D
Aliphatic C28-C40	Aliphatic C28-C40	443		1	23.8	60.0	ug/l	FC069136.D
Aromatic C10-C12	Aromatic C10-C12	83.6		1	2.07	20.0	ug/l	FD049417.D
Aromatic C12-C16	Aromatic C12-C16	132		1	4.26	30.0	ug/l	FD049417.D
Aromatic C16-C21	Aromatic C16-C21	254		1	8.27	50.0	ug/l	FD049417.D
Aromatic C21-C36	Aromatic C21-C36	494		1	23.8	80.0	ug/l	FD049417.D
Total AliphaticEPH	Total AliphaticEPH	1250			66.4	180	ug/l	
Total AromaticEPH	Total AromaticEPH	964			38.4	180	ug/l	
Total EPH	Total EPH	2210			105	360	ug/l	

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

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Report of Analysis

Client:	Portal Partners Tri-Venture		Date Collected:		
Project:	Amtrak Sawtooth Bridges 2025		Date Received:		
Client Sample ID:	PB168324BSD		SDG No.:	Q2198	
Lab Sample ID:	PB168324BSD		Matrix:	Water	
Analytical Method:	NJEPH		% Solid:	0	
Sample Wt/Vol:	1000	Units: mL	Final Vol:	2000	uL
Soil Aliquot Vol:		uL	Test:	EPH	
Prep Method :	SW3510				

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FC069136.D	1	06/06/25	06/09/25	PB168324

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C12	Aliphatic C9-C12	155		8.28	30.0	ug/l
Aliphatic C12-C16	Aliphatic C12-C16	128		13.5	20.0	ug/l
Aliphatic C16-C21	Aliphatic C16-C21	216		8.34	30.0	ug/l
Aliphatic C21-C28	Aliphatic C21-C28	305		12.5	40.0	ug/l
Aliphatic C28-C40	Aliphatic C28-C40	443		23.8	60.0	ug/l
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	38.9		40 - 140	78%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	0.00		40 - 140	0%	SPK: 50

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Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	PB168324BSD	Acq On:	09 Jun 2025 17:37
Client Sample ID:	PB168324BSD	Operator:	YP/AJ
Data file:	FC069136.D	Misc:	
Instrument:	FID_C	ALS Vial:	13
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.299	6.602	8233812	77.885	300	ug/ml
Aliphatic C12-C16	6.603	10.008	6547841	64.204	200	ug/ml
Aliphatic C16-C21	10.009	13.379	10596367	108.275	300	ug/ml
Aliphatic C21-C28	13.380	17.047	14345368	152.929	400	ug/ml
Aliphatic C28-C40	17.048	22.037	20933938	221.666	600	ug/ml
Aliphatic EPH	3.299	22.037	60657326	624.959		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	13.114	13.114	3493029	38.94		ug/ml
Aliphatic C9-C28	3.299	17.047	39723388	403.293	1200	ug/ml

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Report of Analysis

Client:	Portal Partners Tri-Venture		Date Collected:		
Project:	Amtrak Sawtooth Bridges 2025		Date Received:		
Client Sample ID:	PB168324BSD		SDG No.:	Q2198	
Lab Sample ID:	PB168324BSD		Matrix:	Water	
Analytical Method:	NJEPH		% Solid:	0	
Sample Wt/Vol:	1000	Units: mL	Final Vol:	2000	uL
Soil Aliquot Vol:		uL	Test:	EPH	
Prep Method :	SW3510				

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FD049417.D	1	06/06/25	06/09/25	PB168324

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	83.6		2.07	20.0	ug/l
Aromatic C12-C16	Aromatic C12-C16	132		4.26	30.0	ug/l
Aromatic C16-C21	Aromatic C16-C21	254		8.27	50.0	ug/l
Aromatic C21-C36	Aromatic C21-C36	494		23.8	80.0	ug/l
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	31.5		40 - 140	63%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	31.0		40 - 140	62%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	26.7		40 - 140	53%	SPK: 50

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Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	PB168324BSD	Acq On:	09 Jun 2025 17:37
Client Sample ID:	PB168324BSD	Operator:	YP/AJ
Data file:	FD049417.D	Misc:	
Instrument:	FID_D	ALS Vial:	63
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic EPH	4.424	18.512	78760873	482.341		ug/ml
2-Bromonaphthalene (SURR)	7.733	7.733	5235013	31.49		ug/ml
2-Flurobiphenyl (SURR)	8.598	8.598	3547472	31.01		ug/ml
ortho-Terphenyl (SURR)	11.644	11.644	5354384	26.68		ug/ml
Aromatic C10-C12	4.424	6.169	6996325	41.808	200	ug/ml
Aromatic C12-C16	6.170	8.798	12430561	66.287	300	ug/ml
Aromatic C16-C21	8.799	13.089	23494396	127.175	500	ug/ml
Aromatic C21-C36	13.090	18.512	35839591	247.071	800	ug/ml

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB168408BSD	SDG No.:	Q2198
Lab Sample ID:	PB168408BSD	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	100
Sample Wt/Vol:	30.03 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
06/11/25 08:45	06/11/25 17:57	PB168408

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	5.03		1	0.14	1.00	mg/kg	FC069159.D
Aliphatic C12-C16	Aliphatic C12-C16	4.15		1	0.11	0.67	mg/kg	FC069159.D
Aliphatic C16-C21	Aliphatic C16-C21	7.07		1	0.13	1.00	mg/kg	FC069159.D
Aliphatic C21-C28	Aliphatic C21-C28	10.1		1	0.53	1.33	mg/kg	FC069159.D
Aliphatic C28-C40	Aliphatic C28-C40	15.0		1	1.18	2.00	mg/kg	FC069159.D
Aromatic C10-C12	Aromatic C10-C12	2.95		1	0.12	0.67	mg/kg	FD049434.D
Aromatic C12-C16	Aromatic C12-C16	4.68		1	0.23	1.00	mg/kg	FD049434.D
Aromatic C16-C21	Aromatic C16-C21	9.01		1	0.40	1.67	mg/kg	FD049434.D
Aromatic C21-C36	Aromatic C21-C36	17.5		1	1.19	2.66	mg/kg	FD049434.D
Total AliphaticEPH	Total AliphaticEPH	41.4			2.09	5.99	mg/kg	
Total AromaticEPH	Total AromaticEPH	34.1			1.94	6.00	mg/kg	
Total EPH	Total EPH	75.5			4.03	12.0	mg/kg	

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB168408BSD	SDG No.:	Q2198
Lab Sample ID:	PB168408BSD	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	100
Sample Wt/Vol:	30.03 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FC069159.D	1	06/11/25	06/11/25	PB168408

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C12	Aliphatic C9-C12	5.03		0.14	1.00	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16	4.15		0.11	0.67	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21	7.07		0.13	1.00	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28	10.1		0.53	1.33	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	15.0		1.18	2.00	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	38.6		40 - 140	77%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	0.00		40 - 140	0%	SPK: 50

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Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	PB168408BSD	Acq On:	11 Jun 2025 17:57
Client Sample ID:	PB168408BSD	Operator:	YP/AJ
Data file:	FC069159.D	Misc:	
Instrument:	FID_C	ALS Vial:	13
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.303	6.605	7987311	75.553	300	ug/ml
Aliphatic C12-C16	6.606	10.010	6351024	62.274	200	ug/ml
Aliphatic C16-C21	10.011	13.380	10389514	106.162	300	ug/ml
Aliphatic C21-C28	13.381	17.048	14283947	152.275	400	ug/ml
Aliphatic C28-C40	17.049	22.033	21300229	225.545	600	ug/ml
Aliphatic EPH	3.303	22.033	60312025	621.808		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	13.115	13.115	3465185	38.62		ug/ml
Aliphatic C9-C28	3.303	17.048	39011796	396.264	1200	ug/ml

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB168408BSD	SDG No.:	Q2198
Lab Sample ID:	PB168408BSD	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	100
Sample Wt/Vol:	30.03 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FD049434.D	1	06/11/25	06/11/25	PB168408

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	2.95		0.12	0.67	mg/kg
Aromatic C12-C16	Aromatic C12-C16	4.68		0.23	1.00	mg/kg
Aromatic C16-C21	Aromatic C16-C21	9.01		0.40	1.67	mg/kg
Aromatic C21-C36	Aromatic C21-C36	17.5		1.19	2.66	mg/kg
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	33.5		40 - 140	67%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	33.1		40 - 140	66%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	28.3		40 - 140	57%	SPK: 50

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Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	PB168408BSD	Acq On:	11 Jun 2025 17:57
Client Sample ID:	PB168408BSD	Operator:	YP/AJ
Data file:	FD049434.D	Misc:	
Instrument:	FID_D	ALS Vial:	63
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.424	6.168	7419926	44.339	200	ug/ml
Aromatic C12-C16	6.169	8.797	13190807	70.341	300	ug/ml
Aromatic C16-C21	8.798	13.088	25003970	135.346	500	ug/ml
Aromatic C21-C36	13.089	18.509	38067969	262.433	800	ug/ml
Aromatic EPH	4.424	18.509	83682672	512.46		ug/ml
2-Bromonaphthalene (SURR)	7.732	7.732	5575880	33.54		ug/ml
2-Flurobiphenyl (SURR)	8.598	8.598	3792496	33.15		ug/ml
ortho-Terphenyl (SURR)	11.643	11.643	5678306	28.29		ug/ml

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	B-187-SB01MS	SDG No.:	Q2198
Lab Sample ID:	Q2177-02MS	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	84.2
Sample Wt/Vol:	30.03 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
06/11/25 08:45	06/11/25 22:09	PB168408

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	7.50		1	0.17	1.19	mg/kg	FC069165.D
Aliphatic C12-C16	Aliphatic C12-C16	9.37		1	0.13	0.79	mg/kg	FC069165.D
Aliphatic C16-C21	Aliphatic C16-C21	8.98		1	0.15	1.19	mg/kg	FC069165.D
Aliphatic C21-C28	Aliphatic C21-C28	17.2		1	0.63	1.58	mg/kg	FC069165.D
Aliphatic C28-C40	Aliphatic C28-C40	22.5		1	1.40	2.37	mg/kg	FC069165.D
Aromatic C10-C12	Aromatic C10-C12	2.67		1	0.14	0.79	mg/kg	FD049484.D
Aromatic C12-C16	Aromatic C12-C16	4.47		1	0.27	1.19	mg/kg	FD049484.D
Aromatic C16-C21	Aromatic C16-C21	10.5		1	0.48	1.98	mg/kg	FD049484.D
Aromatic C21-C36	Aromatic C21-C36	15.7		1	1.41	3.16	mg/kg	FD049484.D
Total AliphaticEPH	Total AliphaticEPH	65.5			2.48	7.12	mg/kg	
Total AromaticEPH	Total AromaticEPH	33.3			2.30	7.12	mg/kg	
Total EPH	Total EPH	98.9			4.78	14.2	mg/kg	

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

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284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	B-187-SB01MS	SDG No.:	Q2198
Lab Sample ID:	Q2177-02MS	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	84.2
Sample Wt/Vol:	30.03 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FC069165.D	1	06/11/25	06/11/25	PB168408

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C12	Aliphatic C9-C12	7.50		0.17	1.19	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16	9.37		0.13	0.79	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21	8.98		0.15	1.19	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28	17.2		0.63	1.58	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	22.5		1.40	2.37	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	69.3		40 - 140	139%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	0.00		40 - 140	0%	SPK: 50

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Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q2177-02MS	Acq On:	11 Jun 2025 22:09
Client Sample ID:	B-187-SB01MS	Operator:	YP/AJ
Data file:	FC069165.D	Misc:	
Instrument:	FID_C	ALS Vial:	19
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.303	6.605	10028434	94.861	300	ug/ml
Aliphatic C12-C16	6.606	10.010	12078324	118.432	200	ug/ml
Aliphatic C16-C21	10.011	13.380	11106710	113.49	300	ug/ml
Aliphatic C21-C28	13.381	17.048	20368594	217.14	400	ug/ml
Aliphatic C28-C40	17.049	22.033	26847943	284.289	600	ug/ml
Aliphatic EPH	3.303	22.033	80430005	828.211		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	13.118	13.118	6218026	69.31		ug/ml
Aliphatic C9-C28	3.303	17.048	53582062	543.923	1200	ug/ml

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	B-187-SB01MS	SDG No.:	Q2198
Lab Sample ID:	Q2177-02MS	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	84.2
Sample Wt/Vol:	30.03 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FD049484.D	1	06/11/25	06/13/25	PB168408

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	2.67		0.14	0.79	mg/kg
Aromatic C12-C16	Aromatic C12-C16	4.47		0.27	1.19	mg/kg
Aromatic C16-C21	Aromatic C16-C21	10.5		0.48	1.98	mg/kg
Aromatic C21-C36	Aromatic C21-C36	15.7		1.41	3.16	mg/kg
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	37.8		40 - 140	76%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	37.0		40 - 140	74%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	32.5		40 - 140	65%	SPK: 50

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Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	Q2177-02MS	Acq On:	13 Jun 2025 09:48
Client Sample ID:	B-187-SB01MS	Operator:	YP/AJ
Data file:	FD049484.D	Misc:	
Instrument:	FID_D	ALS Vial:	63
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.424	6.168	5645060	33.733	200	ug/ml
Aromatic C12-C16	6.169	8.796	10587299	56.458	300	ug/ml
Aromatic C16-C21	8.797	13.086	24624254	133.291	500	ug/ml
Aromatic C21-C36	13.087	18.508	28854300	198.916	800	ug/ml
Aromatic EPH	4.424	18.508	69710913	422.398		ug/ml
2-Bromonaphthalene (SURR)	7.733	7.733	6278432	37.77		ug/ml
2-Flurobiphenyl (SURR)	8.598	8.598	4233429	37.01		ug/ml
ortho-Terphenyl (SURR)	11.644	11.644	6518438	32.48		ug/ml

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	B-187-SB01MSD	SDG No.:	Q2198
Lab Sample ID:	Q2177-02MSD	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	84.2
Sample Wt/Vol:	30.04 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
06/11/25 08:45	06/11/25 22:50	PB168408

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	7.51		1	0.17	1.19	mg/kg	FC069166.D
Aliphatic C12-C16	Aliphatic C12-C16	9.32		1	0.13	0.79	mg/kg	FC069166.D
Aliphatic C16-C21	Aliphatic C16-C21	8.85		1	0.15	1.19	mg/kg	FC069166.D
Aliphatic C21-C28	Aliphatic C21-C28	16.7		1	0.63	1.58	mg/kg	FC069166.D
Aliphatic C28-C40	Aliphatic C28-C40	22.3		1	1.40	2.37	mg/kg	FC069166.D
Aromatic C10-C12	Aromatic C10-C12	2.73		1	0.14	0.79	mg/kg	FD049485.D
Aromatic C12-C16	Aromatic C12-C16	4.61		1	0.27	1.19	mg/kg	FD049485.D
Aromatic C16-C21	Aromatic C16-C21	10.6		1	0.47	1.98	mg/kg	FD049485.D
Aromatic C21-C36	Aromatic C21-C36	15.8		1	1.41	3.16	mg/kg	FD049485.D
Total AliphaticEPH	Total AliphaticEPH	64.7			2.48	7.12	mg/kg	
Total AromaticEPH	Total AromaticEPH	33.7			2.30	7.12	mg/kg	
Total EPH	Total EPH	98.4			4.78	14.2	mg/kg	

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	B-187-SB01MSD	SDG No.:	Q2198
Lab Sample ID:	Q2177-02MSD	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	84.2
Sample Wt/Vol:	30.04 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FC069166.D	1	06/11/25	06/11/25	PB168408

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C12	Aliphatic C9-C12	7.51		0.17	1.19	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16	9.32		0.13	0.79	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21	8.85		0.15	1.19	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28	16.7		0.63	1.58	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	22.3		1.40	2.37	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	68.0		40 - 140	136%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	0.00		40 - 140	0%	SPK: 50

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Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q2177-02MSD	Acq On:	11 Jun 2025 22:50
Client Sample ID:	B-187-SB01MSD	Operator:	YP/AJ
Data file:	FC069166.D	Misc:	
Instrument:	FID_C	ALS Vial:	20
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.303	6.605	10039489	94.965	300	ug/ml
Aliphatic C12-C16	6.606	10.010	12019786	117.858	200	ug/ml
Aliphatic C16-C21	10.011	13.380	10951250	111.902	300	ug/ml
Aliphatic C21-C28	13.381	17.048	19867548	211.799	400	ug/ml
Aliphatic C28-C40	17.049	22.033	26623937	281.917	600	ug/ml
Aliphatic EPH	3.303	22.033	79502010	818.44		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	13.118	13.118	6098846	67.98		ug/ml
Aliphatic C9-C28	3.303	17.048	52878073	536.524	1200	ug/ml

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Report of Analysis

Client:	Portal Partners Tri-Venture		Date Collected:		
Project:	Amtrak Sawtooth Bridges 2025		Date Received:		
Client Sample ID:	B-187-SB01MSD		SDG No.:	Q2198	
Lab Sample ID:	Q2177-02MSD		Matrix:	Solid	
Analytical Method:	NJEPH		% Solid:	84.2	
Sample Wt/Vol:	30.04	Units: g	Final Vol:	2000	uL
Soil Aliquot Vol:		uL	Test:	EPH	
Prep Method :					

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FD049485.D	1	06/11/25	06/13/25	PB168408

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	2.73		0.14	0.79	mg/kg
Aromatic C12-C16	Aromatic C12-C16	4.61		0.27	1.19	mg/kg
Aromatic C16-C21	Aromatic C16-C21	10.6		0.47	1.98	mg/kg
Aromatic C21-C36	Aromatic C21-C36	15.8		1.41	3.16	mg/kg
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	38.6		40 - 140	77%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	37.7		40 - 140	75%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	32.9		40 - 140	66%	SPK: 50

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Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	Q2177-02MSD	Acq On:	13 Jun 2025 10:28
Client Sample ID:	B-187-SB01MSD	Operator:	YP/AJ
Data file:	FD049485.D	Misc:	
Instrument:	FID_D	ALS Vial:	64
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.424	6.168	5780149	34.54	200	ug/ml
Aromatic C12-C16	6.169	8.796	10942801	58.354	300	ug/ml
Aromatic C16-C21	8.797	13.086	24851315	134.52	500	ug/ml
Aromatic C21-C36	13.087	18.508	28939612	199.504	800	ug/ml
Aromatic EPH	4.424	18.508	70513877	426.918		ug/ml
2-Bromonaphthalene (SURR)	7.733	7.733	6422490	38.64		ug/ml
2-Flurobiphenyl (SURR)	8.599	8.599	4310794	37.68		ug/ml
ortho-Terphenyl (SURR)	11.644	11.644	6612603	32.94		ug/ml

CALIBRATION SUMMARY

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Inital Calibration Report for SequenceID : FC052425AL

AreaCount

Parameter Range	FC068998.D	FC068999.D	FC069000.D	FC069001.D	FC069002.D	
Aliphatic C9-C12	30972986.000	14697820.000	6552580.000	3389981.000	1577245.000	
Aliphatic C12-C16	19730095.000	9409770.000	4233296.000	2174844.000	1026044.000	
Aliphatic C16-C21	27989044.000	13592271.000	6091143.000	3134146.000	1491343.000	
Aliphatic C21-C28	35203824.000	17414178.000	7749092.000	4002009.000	1940505.000	
Aliphatic C28-C40	51848700.000	25927287.000	11552782.000	6038750.000	3073121.000	
Aliphatic EPH	165744649.000	81041326.000	36178893.000	18739730.000	9108258.000	

AVG Response Factor

Parameter Range	AVG RF	% RSD				
Aliphatic C9-C12	105717.490666	5.423				
Aliphatic C12-C16	101985.435	5.679				
Aliphatic C16-C21	97865.0806664	5.889				
Aliphatic C21-C28	93803.915	6.254				
Aliphatic C28-C40	94439.0346664	8.107				
Aliphatic EPH	97587.1362218	6.302				

Concentration

Parameter Range	FC068998.D	FC068999.D	FC069000.D	FC069001.D	FC069002.D	
Aliphatic C9-C12	300.000	150.000	60.000	30.000	15.000	
Aliphatic C12-C16	200.000	100.000	40.000	20.000	10.000	
Aliphatic C16-C21	300.000	150.000	60.000	30.000	15.000	
Aliphatic C21-C28	400.000	200.000	80.000	40.000	20.000	
Aliphatic C28-C40	600.000	300.000	120.000	60.000	30.000	
Aliphatic EPH	1800.000	900.000	360.000	180.000	90.000	

Response Factor

Parameter Range	FC068998.D	FC068999.D	FC069000.D	FC069001.D	FC069002.D	
Aliphatic C9-C12	103243.286666	97985.466666	109209.666666	112999.366666	105149.666666	
Aliphatic C12-C16	98650.475000	94097.700000	105832.400000	108742.200000	102604.400000	
Aliphatic C16-C21	93296.813333	90615.140000	101519.050000	104471.533333	99422.866666	

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Inital Calibration Report for SequenceID : FC052425AL

Aliphatic C21-C28	88009.560000	87070.890000	96863.650000	100050.225000	97025.250000	
Aliphatic C28-C40	86414.500000	86424.290000	96273.183333	100645.833333	102437.366666	
Aliphatic EPH	92080.360555	90045.917777	100496.925000	104109.611111	101202.866666	

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Inital Calibration Report for SequenceID : FD052425AR

AreaCount

Parameter Range	FD049394.D	FD049395.D	FD049396.D	FD049397.D	FD049398.D	
Aromatic C10-C12	33764721.000	17376581.000	6841824.000	3407467.000	1527158.000	
Aromatic C12-C16	56774252.000	29126947.000	11503062.000	5758553.000	2557965.000	
Aromatic C16-C21	74538707.000	38370069.000	15220909.000	7574275.000	3317737.000	
Aromatic C21-C36	130351882.000	67018652.000	26858131.000	13411159.000	5998437.000	
Aromatic EPH	295429562.000	151892249.000	60423926.000	30151454.000	13401297.000	

AVG Response Factor

Parameter Range	AVG RF	% RSD				
Aromatic C10-C12	167344.833	5.002				
Aromatic C12-C16	187525.5239996	5.151				
Aromatic C16-C21	184740.44	5.807				
Aromatic C21-C36	145057.8157772	4.704				
Aromatic EPH	163430.4633328	5.084				

Concentration

Parameter Range	FD049394.D	FD049395.D	FD049396.D	FD049397.D	FD049398.D	
Aromatic C10-C12	200.000	100.000	40.000	20.000	10.000	
Aromatic C12-C16	300.000	150.000	60.000	30.000	15.000	
Aromatic C16-C21	400.000	200.000	80.000	40.000	20.000	
Aromatic C21-C36	900.000	450.000	180.000	90.000	45.000	
Aromatic EPH	1800.000	900.000	360.000	180.000	90.000	

Response Factor

Parameter Range	FD049394.D	FD049395.D	FD049396.D	FD049397.D	FD049398.D	
Aromatic C10-C12	168823.605000	173765.810000	171045.600000	170373.350000	152715.800000	
Aromatic C12-C16	189247.506666	194179.646666	191717.700000	191951.766666	170531.000000	
Aromatic C16-C21	186346.767500	191850.345000	190261.362500	189356.875000	165886.850000	
Aromatic C21-C36	144835.424444	148930.337777	149211.838888	149012.877777	133298.600000	
Aromatic EPH	164127.534444	168769.165555	167844.238888	167508.077777	148903.300000	

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Continuing Calibration Report for SequenceID : FC060925AL

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
File ID :	**FC069133.D**						
Aliphatic C9-C12	6438999.000	60.000	3.299	6.602	107316.650	105717.491	-1.513
Aliphatic C12-C16	4050508.000	40.000	6.603	10.008	101262.700	101985.435	0.709
Aliphatic C16-C21	5664814.000	60.000	10.009	13.379	94413.567	97865.081	3.527
Aliphatic C21-C28	7292919.000	80.000	13.380	17.047	91161.488	93803.915	2.817
Aliphatic C28-C40	11227163.000	120.000	17.048	22.037	93559.692	94439.035	0.931
Aliphatic EPH	34674403.000	360.000	3.299	22.037	96317.786	97587.136	1.301

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Lab Sample ID:	20 PPM ALIPHATIC HC S	Acq On:	09 Jun 2025 12:17
Client Sample ID:		Operator:	YP/AJ
Data file:	FC069133.D	Misc:	
Instrument:	FID_C	ALS Vial:	2
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aliphatic C9-C12	3.299	6.602	6438999.000	60.000	ug/ml
Aliphatic C12-C16	6.603	10.008	4050508.000	40.000	ug/ml
Aliphatic C16-C21	10.009	13.379	5664814.000	60.000	ug/ml
Aliphatic C21-C28	13.380	17.047	7292919.000	80.000	ug/ml
Aliphatic C28-C40	17.048	22.037	11227163.000	120.000	ug/ml
Aliphatic EPH	3.299	22.037	34674403.000	360.000	ug/ml

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Continuing Calibration Report for SequenceID : FC060925AL

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
File ID :	**FC069140.D**						
Aliphatic C9-C12	6898571.000	60.000	3.299	6.602	114976.183	105717.491	-8.758
Aliphatic C12-C16	4221397.000	40.000	6.603	10.008	105534.925	101985.435	-3.480
Aliphatic C16-C21	5932054.000	60.000	10.009	13.379	98867.567	97865.081	-1.024
Aliphatic C21-C28	8098980.000	80.000	13.380	17.047	101237.250	93803.915	-7.924
Aliphatic C28-C40	12168142.000	120.000	17.048	22.037	101401.183	94439.035	-7.372
Aliphatic EPH	37319144.000	360.000	3.299	22.037	103664.289	97587.136	-6.227

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Lab Sample ID:	20 PPM ALIPHATIC HC S	Acq On:	09 Jun 2025 21:41
Client Sample ID:		Operator:	YP/AJ
Data file:	FC069140.D	Misc:	
Instrument:	FID_C	ALS Vial:	3
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aliphatic C9-C12	3.299	6.602	6898571.000	60.000	ug/ml
Aliphatic C12-C16	6.603	10.008	4221397.000	40.000	ug/ml
Aliphatic C16-C21	10.009	13.379	5932054.000	60.000	ug/ml
Aliphatic C21-C28	13.380	17.047	8098980.000	80.000	ug/ml
Aliphatic C28-C40	17.048	22.037	12168142.000	120.000	ug/ml
Aliphatic EPH	3.299	22.037	37319144.000	360.000	ug/ml

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Continuing Calibration Report for SequenceID : FC061125AL

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
File ID :	**FC069156.D**						
Aliphatic C9-C12	6783670.000	60.000	3.303	6.605	113061.167	105717.491	-6.947
Aliphatic C12-C16	4187470.000	40.000	6.606	10.010	104686.750	101985.435	-2.649
Aliphatic C16-C21	5888827.000	60.000	10.011	13.380	98147.117	97865.081	-0.288
Aliphatic C21-C28	8136653.000	80.000	13.381	17.048	101708.163	93803.915	-8.426
Aliphatic C28-C40	12161407.000	120.000	17.049	22.033	101345.058	94439.035	-7.313
Aliphatic EPH	37158027.000	360.000	3.303	22.033	103216.742	97587.136	-5.769

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Fax : 908 789 8922

Lab Sample ID:	20 PPM ALIPHATIC HC S	Acq On:	11 Jun 2025 12:12
Client Sample ID:		Operator:	YP/AJ
Data file:	FC069156.D	Misc:	
Instrument:	FID_C	ALS Vial:	2
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aliphatic C9-C12	3.303	6.605	6783670.000	60.000	ug/ml
Aliphatic C12-C16	6.606	10.010	4187470.000	40.000	ug/ml
Aliphatic C16-C21	10.011	13.380	5888827.000	60.000	ug/ml
Aliphatic C21-C28	13.381	17.048	8136653.000	80.000	ug/ml
Aliphatic C28-C40	17.049	22.033	12161407.000	120.000	ug/ml
Aliphatic EPH	3.303	22.033	37158027.000	360.000	ug/ml

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Continuing Calibration Report for SequenceID : FC061125AL

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
File ID :	**FC069168.D**						
Aliphatic C9-C12	6110551.000	60.000	3.303	6.605	101842.517	105717.491	3.665
Aliphatic C12-C16	3798337.000	40.000	6.606	10.010	94958.425	101985.435	6.890
Aliphatic C16-C21	5309111.000	60.000	10.011	13.380	88485.183	97865.081	9.585
Aliphatic C21-C28	7214648.000	80.000	13.381	17.048	90183.100	93803.915	3.860
Aliphatic C28-C40	10985455.000	120.000	17.049	22.033	91545.458	94439.035	3.064
Aliphatic EPH	33418102.000	360.000	3.303	22.033	92828.061	97587.136	4.877

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Lab Sample ID:	20 PPM ALIPHATIC HC S	Acq On:	12 Jun 2025 00:09
Client Sample ID:		Operator:	YP/AJ
Data file:	FC069168.D	Misc:	
Instrument:	FID_C	ALS Vial:	2
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aliphatic C9-C12	3.303	6.605	6110551.000	60.000	ug/ml
Aliphatic C12-C16	6.606	10.010	3798337.000	40.000	ug/ml
Aliphatic C16-C21	10.011	13.380	5309111.000	60.000	ug/ml
Aliphatic C21-C28	13.381	17.048	7214648.000	80.000	ug/ml
Aliphatic C28-C40	17.049	22.033	10985455.000	120.000	ug/ml
Aliphatic EPH	3.303	22.033	33418102.000	360.000	ug/ml

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Continuing Calibration Report for SequenceID : FC061125AL

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
File ID :	**FC069174.D**						
Aliphatic C9-C12	5936222.000	60.000	3.303	6.605	98937.033	105717.491	6.414
Aliphatic C12-C16	3691689.000	40.000	6.606	10.010	92292.225	101985.435	9.505
Aliphatic C16-C21	5157507.000	60.000	10.011	13.380	85958.450	97865.081	12.166
Aliphatic C21-C28	7042755.000	80.000	13.381	17.048	88034.438	93803.915	6.151
Aliphatic C28-C40	10687110.000	120.000	17.049	22.033	89059.250	94439.035	5.697
Aliphatic EPH	32515283.000	360.000	3.303	22.033	90320.231	97587.136	7.447

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Lab Sample ID:	20 PPM ALIPHATIC HC S	Acq On:	12 Jun 2025 04:46
Client Sample ID:		Operator:	YP/AJ
Data file:	FC069174.D	Misc:	
Instrument:	FID_C	ALS Vial:	2
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aliphatic C9-C12	3.303	6.605	5936222.000	60.000	ug/ml
Aliphatic C12-C16	6.606	10.010	3691689.000	40.000	ug/ml
Aliphatic C16-C21	10.011	13.380	5157507.000	60.000	ug/ml
Aliphatic C21-C28	13.381	17.048	7042755.000	80.000	ug/ml
Aliphatic C28-C40	17.049	22.033	10687110.000	120.000	ug/ml
Aliphatic EPH	3.303	22.033	32515283.000	360.000	ug/ml

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Continuing Calibration Report for SequenceID : FD060925AR

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
File ID :	**FD049414.D**						
Aromatic C10-C12	6066366.000	40.000	4.424	6.169	151659.150	167344.833	9.373
Aromatic C12-C16	9855692.000	60.000	6.170	8.798	164261.533	187525.524	12.406
Aromatic C16-C21	12307850.000	80.000	8.799	13.089	153848.125	184740.440	16.722
Aromatic C21-C36	25693832.000	180.000	13.090	18.512	142743.511	145057.816	1.595
Aromatic EPH	53923740.000	360.000	4.424	18.512	149788.167	163430.463	8.347

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Lab Sample ID:	20 PPM AROMATIC HC S	Acq On:	09 Jun 2025 12:17
Client Sample ID:		Operator:	YP/AJ
Data file:	FD049414.D	Misc:	
Instrument:	FID_D	ALS Vial:	53
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aromatic C10-C12	4.424	6.169	6066366.000	40.000	ug/ml
Aromatic C12-C16	6.170	8.798	9855692.000	60.000	ug/ml
Aromatic C16-C21	8.799	13.089	12307850.000	80.000	ug/ml
Aromatic C21-C36	13.090	18.512	25693832.000	180.000	ug/ml
Aromatic EPH	4.424	18.512	53923740.000	360.000	ug/ml

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Continuing Calibration Report for SequenceID : FD060925AR

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
File ID :	**FD049421.D**						
Aromatic C10-C12	6920053.000	40.000	4.424	6.169	173001.325	167344.833	-3.380
Aromatic C12-C16	11045426.000	60.000	6.170	8.798	184090.433	187525.524	1.832
Aromatic C16-C21	13902265.000	80.000	8.799	13.089	173778.313	184740.440	5.934
Aromatic C21-C36	28417137.000	180.000	13.090	18.512	157872.983	145057.816	-8.835
Aromatic EPH	60284881.000	360.000	4.424	18.512	167458.003	163430.463	-2.464

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Lab Sample ID:	20 PPM AROMATIC HC S	Acq On:	09 Jun 2025 21:01
Client Sample ID:		Operator:	YP/AJ
Data file:	FD049421.D	Misc:	
Instrument:	FID_D	ALS Vial:	52
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aromatic C10-C12	4.424	6.169	6920053.000	40.000	ug/ml
Aromatic C12-C16	6.170	8.798	11045426.000	60.000	ug/ml
Aromatic C16-C21	8.799	13.089	13902265.000	80.000	ug/ml
Aromatic C21-C36	13.090	18.512	28417137.000	180.000	ug/ml
Aromatic EPH	4.424	18.512	60284881.000	360.000	ug/ml

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Continuing Calibration Report for SequenceID : FD061025AR

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
File ID :	**FD049424.D**						
Aromatic C10-C12	6278489.000	40.000	4.425	6.169	156962.225	167344.833	6.204
Aromatic C12-C16	10256841.000	60.000	6.170	8.798	170947.350	187525.524	8.840
Aromatic C16-C21	12991778.000	80.000	8.799	13.089	162397.225	184740.440	12.094
Aromatic C21-C36	26792100.000	180.000	13.090	18.511	148845.000	145057.816	-2.611
Aromatic EPH	56319208.000	360.000	4.425	18.511	156442.244	163430.463	4.276

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Fax : 908 789 8922

Lab Sample ID:	20 PPM AROMATIC HC S	Acq On:	10 Jun 2025 09:11
Client Sample ID:		Operator:	YP/AJ
Data file:	FD049424.D	Misc:	
Instrument:	FID_D	ALS Vial:	53
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aromatic C10-C12	4.425	6.169	6278489.000	40.000	ug/ml
Aromatic C12-C16	6.170	8.798	10256841.000	60.000	ug/ml
Aromatic C16-C21	8.799	13.089	12991778.000	80.000	ug/ml
Aromatic C21-C36	13.090	18.511	26792100.000	180.000	ug/ml
Aromatic EPH	4.425	18.511	56319208.000	360.000	ug/ml

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Continuing Calibration Report for SequenceID : FD061025AR

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
File ID :	**FD049427.D**						
Aromatic C10-C12	6485261.000	40.000	4.425	6.169	162131.525	167344.833	3.115
Aromatic C12-C16	10630607.000	60.000	6.170	8.798	177176.783	187525.524	5.519
Aromatic C16-C21	13401211.000	80.000	8.799	13.089	167515.138	184740.440	9.324
Aromatic C21-C36	27453656.000	180.000	13.090	18.511	152520.311	145057.816	-5.144
Aromatic EPH	57970735.000	360.000	4.425	18.511	161029.819	163430.463	1.469

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Fax : 908 789 8922

Lab Sample ID:	20 PPM AROMATIC HC S	Acq On:	10 Jun 2025 13:10
Client Sample ID:		Operator:	YP/AJ
Data file:	FD049427.D	Misc:	
Instrument:	FID_D	ALS Vial:	53
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aromatic C10-C12	4.425	6.169	6485261.000	40.000	ug/ml
Aromatic C12-C16	6.170	8.798	10630607.000	60.000	ug/ml
Aromatic C16-C21	8.799	13.089	13401211.000	80.000	ug/ml
Aromatic C21-C36	13.090	18.511	27453656.000	180.000	ug/ml
Aromatic EPH	4.425	18.511	57970735.000	360.000	ug/ml

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Continuing Calibration Report for SequenceID : FD061125AR

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
File ID :	**FD049430.D**						
Aromatic C10-C12	6205695.000	40.000	4.424	6.168	155142.375	167344.833	7.292
Aromatic C12-C16	9970470.000	60.000	6.169	8.797	166174.500	187525.524	11.386
Aromatic C16-C21	12701998.000	80.000	8.798	13.088	158774.975	184740.440	14.055
Aromatic C21-C36	25903906.000	180.000	13.089	18.509	143910.589	145057.816	0.791
Aromatic EPH	54782069.000	360.000	4.424	18.509	152172.414	163430.463	6.889

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Fax : 908 789 8922

Lab Sample ID:	20 PPM AROMATIC HC S	Acq On:	11 Jun 2025 12:12
Client Sample ID:		Operator:	YP/AJ
Data file:	FD049430.D	Misc:	
Instrument:	FID_D	ALS Vial:	52
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aromatic C10-C12	4.424	6.168	6205695.000	40.000	ug/ml
Aromatic C12-C16	6.169	8.797	9970470.000	60.000	ug/ml
Aromatic C16-C21	8.798	13.088	12701998.000	80.000	ug/ml
Aromatic C21-C36	13.089	18.509	25903906.000	180.000	ug/ml
Aromatic EPH	4.424	18.509	54782069.000	360.000	ug/ml

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Continuing Calibration Report for SequenceID : FD061125AR

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
File ID :	**FD049443.D**						
Aromatic C10-C12	6392686.000	40.000	4.424	6.168	159817.150	167344.833	4.498
Aromatic C12-C16	10225061.000	60.000	6.169	8.797	170417.683	187525.524	9.123
Aromatic C16-C21	13364565.000	80.000	8.798	13.088	167057.063	184740.440	9.572
Aromatic C21-C36	27341316.000	180.000	13.089	18.509	151896.200	145057.816	-4.714
Aromatic EPH	57323628.000	360.000	4.424	18.509	159232.300	163430.463	2.569

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Fax : 908 789 8922

Lab Sample ID:	20 PPM AROMATIC HC S	Acq On:	12 Jun 2025 00:09
Client Sample ID:		Operator:	YP/AJ
Data file:	FD049443.D	Misc:	
Instrument:	FID_D	ALS Vial:	52
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aromatic C10-C12	4.424	6.168	6392686.000	40.000	ug/ml
Aromatic C12-C16	6.169	8.797	10225061.000	60.000	ug/ml
Aromatic C16-C21	8.798	13.088	13364565.000	80.000	ug/ml
Aromatic C21-C36	13.089	18.509	27341316.000	180.000	ug/ml
Aromatic EPH	4.424	18.509	57323628.000	360.000	ug/ml

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Fax : 908 789 8922

Continuing Calibration Report for SequenceID : FD061125AR

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
File ID :	**FD049449.D**						
Aromatic C10-C12	6540731.000	40.000	4.424	6.168	163518.275	167344.833	2.287
Aromatic C12-C16	10481876.000	60.000	6.169	8.797	174697.933	187525.524	6.840
Aromatic C16-C21	13688224.000	80.000	8.798	13.088	171102.800	184740.440	7.382
Aromatic C21-C36	27718945.000	180.000	13.089	18.509	153994.139	145057.816	-6.161
Aromatic EPH	58429776.000	360.000	4.424	18.509	162304.933	163430.463	0.689

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Fax : 908 789 8922

Lab Sample ID:	20 PPM AROMATIC HC S	Acq On:	12 Jun 2025 04:46
Client Sample ID:		Operator:	YP/AJ
Data file:	FD049449.D	Misc:	
Instrument:	FID_D	ALS Vial:	52
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aromatic C10-C12	4.424	6.168	6540731.000	40.000	ug/ml
Aromatic C12-C16	6.169	8.797	10481876.000	60.000	ug/ml
Aromatic C16-C21	8.798	13.088	13688224.000	80.000	ug/ml
Aromatic C21-C36	13.089	18.509	27718945.000	180.000	ug/ml
Aromatic EPH	4.424	18.509	58429776.000	360.000	ug/ml

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Fax : 908 789 8922

Continuing Calibration Report for SequenceID : FD061325AR

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
File ID :	**FD049481.D**						
Aromatic C10-C12	6695791.000	40.000	4.424	6.168	167394.775	167344.833	-0.030
Aromatic C12-C16	10586658.000	60.000	6.169	8.796	176444.300	187525.524	5.909
Aromatic C16-C21	13509794.000	80.000	8.797	13.086	168872.425	184740.440	8.589
Aromatic C21-C36	27183534.000	180.000	13.087	18.508	151019.633	145057.816	-4.110
Aromatic EPH	57975777.000	360.000	4.424	18.508	161043.825	163430.463	1.460

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Fax : 908 789 8922

Lab Sample ID:	20 PPM AROMATIC HC S	Acq On:	13 Jun 2025 07:46
Client Sample ID:		Operator:	YP/AJ
Data file:	FD049481.D	Misc:	
Instrument:	FID_D	ALS Vial:	52
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aromatic C10-C12	4.424	6.168	6695791.000	40.000	ug/ml
Aromatic C12-C16	6.169	8.796	10586658.000	60.000	ug/ml
Aromatic C16-C21	8.797	13.086	13509794.000	80.000	ug/ml
Aromatic C21-C36	13.087	18.508	27183534.000	180.000	ug/ml
Aromatic EPH	4.424	18.508	57975777.000	360.000	ug/ml

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Fax : 908 789 8922

Continuing Calibration Report for SequenceID : FD061325AR

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
File ID :	**FD049489.D**						
Aromatic C10-C12	6667078.000	40.000	4.424	6.168	166676.950	167344.833	0.399
Aromatic C12-C16	10603581.000	60.000	6.169	8.796	176726.350	187525.524	5.759
Aromatic C16-C21	13634458.000	80.000	8.797	13.086	170430.725	184740.440	7.746
Aromatic C21-C36	27639906.000	180.000	13.087	18.508	153555.033	145057.816	-5.858
Aromatic EPH	58545023.000	360.000	4.424	18.508	162625.064	163430.463	0.493

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Fax : 908 789 8922

Lab Sample ID:	20 PPM AROMATIC HC S	Acq On:	13 Jun 2025 13:06
Client Sample ID:		Operator:	YP/AJ
Data file:	FD049489.D	Misc:	
Instrument:	FID_D	ALS Vial:	52
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aromatic C10-C12	4.424	6.168	6667078.000	40.000	ug/ml
Aromatic C12-C16	6.169	8.796	10603581.000	60.000	ug/ml
Aromatic C16-C21	8.797	13.086	13634458.000	80.000	ug/ml
Aromatic C21-C36	13.087	18.508	27639906.000	180.000	ug/ml
Aromatic EPH	4.424	18.508	58545023.000	360.000	ug/ml

SAMPLE RAW DATA

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC061125AL\
Data File : FC069171.D
Signal(s) : FID1A.ch
Acq On : 12 Jun 2025 02:48
Operator : YP/AJ
Sample : Q2198-01
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
B-202-SB02

Integration File: autoint1.e
Quant Time: Jun 12 06:08:11 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 052425.M
Quant Title : GC Extractables
QLast Update : Tue May 27 01:48:55 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
12) S 1-chlorooctadecane (S...	13.115	3406894	37.975 ug/ml
Spiked Amount 50.000		Recovery = 75.95%	
Target Compounds			

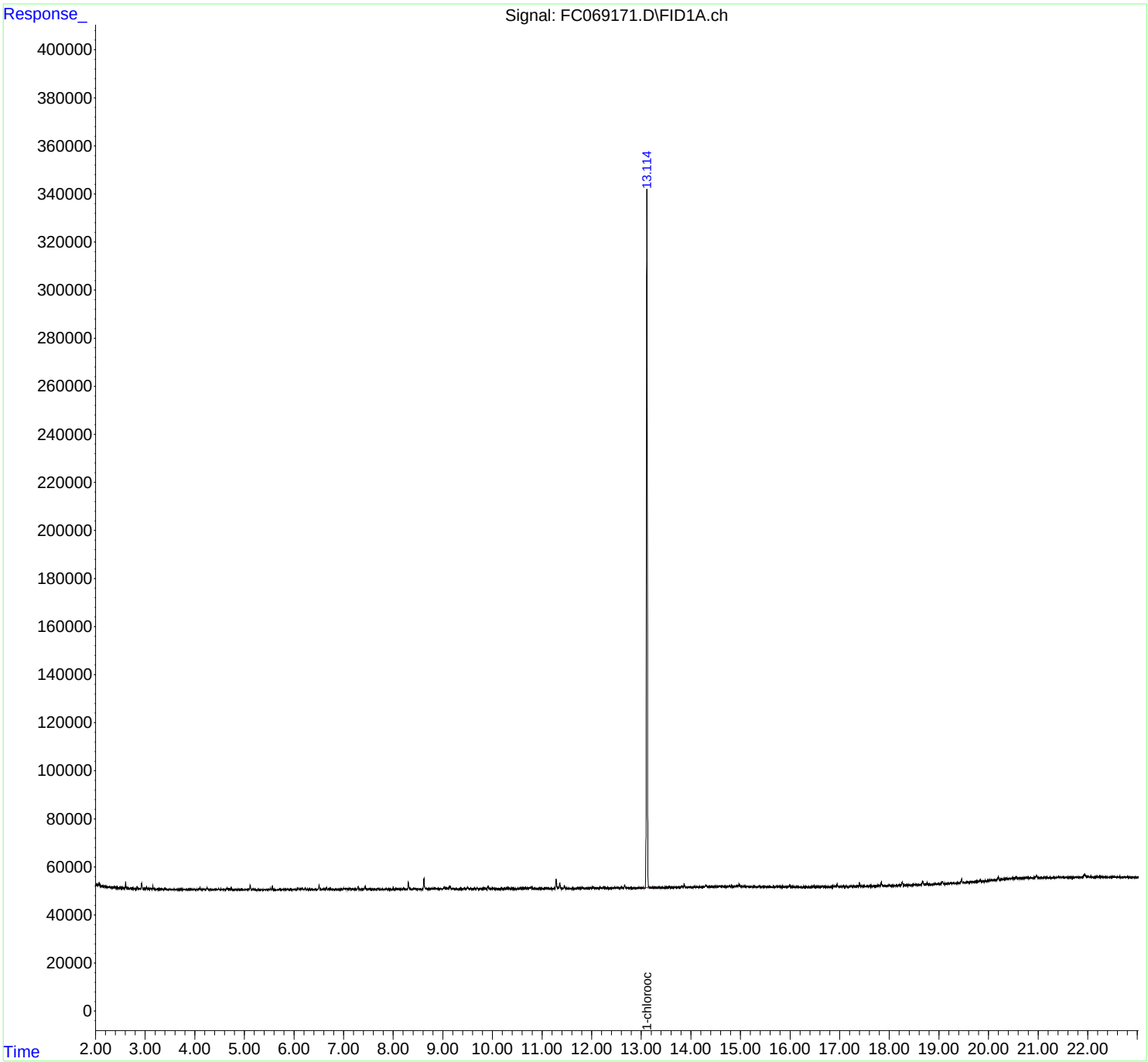
(f)=RT Delta > 1/2 Window (m)=manual int.

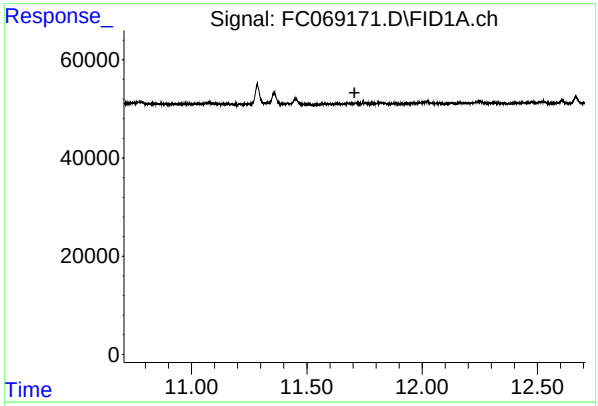
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC061125AL\
Data File : FC069171.D
Signal(s) : FID1A.ch
Acq On : 12 Jun 2025 02:48
Operator : YP/AJ
Sample : Q2198-01
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
B-202-SB02

Integration File: autoint1.e
Quant Time: Jun 12 06:08:11 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 052425.M
Quant Title : GC Extractables
QLast Update : Tue May 27 01:48:55 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

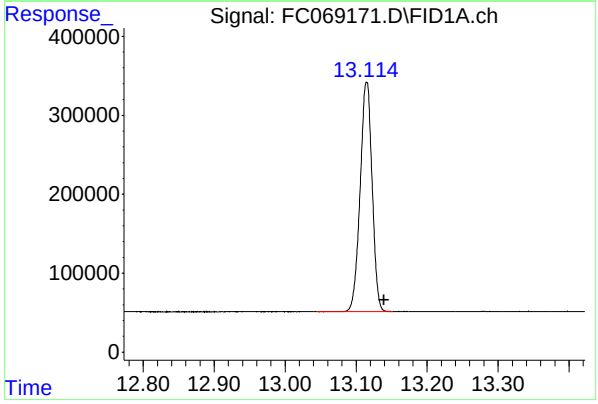




#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.707 min
Response: 0
Conc: N.D.

Instrument :
FID_C
ClientSampleId :
B-202-SB02



#12 1-chlorooctadecane (SURR)

R.T.: 13.115 min
Delta R.T.: -0.025 min
Response: 3406894
Conc: 37.98 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC061125AL\
Data File : FC069171.D
Signal(s) : FID1A.ch
Acq On : 12 Jun 2025 02:48
Sample : Q2198-01
Misc :
ALS Vial : 23 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 052425.M
Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.231	3.204	3.264	BV	103	692	0.02%	0.010%
2	3.276	3.264	3.304	VV	68	878	0.03%	0.012%
3	3.309	3.304	3.335	VV	81	635	0.02%	0.009%
4	3.342	3.335	3.374	PV	102	1449	0.04%	0.020%
5	3.404	3.374	3.474	PV	317	5692	0.17%	0.079%
6	3.505	3.474	3.540	VV	135	2339	0.07%	0.032%
7	3.555	3.540	3.566	PV	111	1024	0.03%	0.014%
8	3.577	3.566	3.611	VV	131	1526	0.04%	0.021%
9	3.614	3.611	3.622	VV	98	328	0.01%	0.005%
10	3.646	3.622	3.671	VV	67	1095	0.03%	0.015%
11	3.682	3.671	3.694	PV	136	798	0.02%	0.011%
12	3.733	3.694	3.748	VV	195	3096	0.09%	0.043%
13	3.752	3.748	3.774	VV	120	1214	0.04%	0.017%
14	3.780	3.774	3.808	VV	113	1734	0.05%	0.024%
15	3.821	3.808	3.871	VV	150	3344	0.10%	0.046%
16	3.905	3.871	3.918	VV	417	4782	0.14%	0.066%
17	3.924	3.918	3.962	VV	262	3766	0.11%	0.052%
18	3.989	3.962	4.049	VV	265	5509	0.16%	0.076%
19	4.081	4.049	4.093	VV	427	5003	0.15%	0.069%
20	4.107	4.093	4.155	VV	583	8821	0.26%	0.122%
21	4.176	4.155	4.192	VV	237	3124	0.09%	0.043%
22	4.202	4.192	4.214	VV	169	1532	0.04%	0.021%
23	4.247	4.214	4.284	VV	820	13600	0.40%	0.188%
24	4.293	4.284	4.348	VV	165	4065	0.12%	0.056%
25	4.357	4.348	4.378	VV	110	1025	0.03%	0.014%
26	4.409	4.378	4.449	PV	194	4929	0.14%	0.068%
27	4.481	4.449	4.502	VV	485	6733	0.20%	0.093%
28	4.526	4.502	4.548	VV	333	5087	0.15%	0.070%
29	4.593	4.548	4.618	VV	278	7294	0.21%	0.101%
30	4.649	4.618	4.690	VV	673	11940	0.35%	0.165%
31	4.705	4.690	4.719	VV	556	5700	0.17%	0.079%
32	4.736	4.719	4.778	VV	805	9149	0.27%	0.127%
33	4.787	4.778	4.803	VV	113	744	0.02%	0.010%
34	4.859	4.803	4.878	VV	180	4584	0.13%	0.064%
35	4.937	4.878	4.969	PV	174	4387	0.13%	0.061%
36	4.975	4.969	4.993	VV	54	419	0.01%	0.006%

rteres

37	5.008	4.993	5.025	VV	144	1206	0.04%	0.017%
38	5.040	5.025	5.070	VV	140	2435	0.07%	0.034%
39	5.118	5.070	5.154	VV	2026	27500	0.80%	0.381%
40	5.174	5.154	5.190	VV	431	4970	0.15%	0.069%
41	5.202	5.190	5.286	VV	290	5494	0.16%	0.076%
42	5.313	5.286	5.337	VV	176	2597	0.08%	0.036%
43	5.350	5.337	5.369	VV	180	1708	0.05%	0.024%
44	5.396	5.369	5.451	PV	198	3090	0.09%	0.043%
45	5.487	5.451	5.503	VV	113	2022	0.06%	0.028%
46	5.524	5.503	5.544	VV	560	6327	0.18%	0.088%
47	5.562	5.544	5.605	VV	1112	12845	0.38%	0.178%
48	5.620	5.605	5.640	VV	222	2048	0.06%	0.028%
49	5.709	5.640	5.754	PV	319	7906	0.23%	0.110%
50	5.764	5.754	5.790	VV	170	2901	0.08%	0.040%
51	5.811	5.790	5.847	VV	419	7751	0.23%	0.107%
52	5.872	5.847	5.912	VV	343	7596	0.22%	0.105%
53	5.935	5.912	5.960	VV	232	3395	0.10%	0.047%
54	5.979	5.960	6.003	PV	269	4121	0.12%	0.057%
55	6.081	6.003	6.108	VV	744	18146	0.53%	0.251%
56	6.122	6.108	6.139	VV	555	6751	0.20%	0.094%
57	6.164	6.139	6.200	VV	944	14663	0.43%	0.203%
58	6.225	6.200	6.252	VV	764	10317	0.30%	0.143%
59	6.301	6.252	6.331	VV	346	8127	0.24%	0.113%
60	6.346	6.331	6.418	VV	228	6880	0.20%	0.095%
61	6.426	6.418	6.461	VV	136	3323	0.10%	0.046%
62	6.506	6.461	6.551	VV	2052	28175	0.82%	0.390%
63	6.557	6.551	6.574	VV	199	2126	0.06%	0.029%
64	6.592	6.574	6.609	VV	397	5468	0.16%	0.076%
65	6.626	6.609	6.637	VV	272	3800	0.11%	0.053%
66	6.656	6.637	6.680	VV	913	11817	0.35%	0.164%
67	6.692	6.680	6.718	VV	281	5028	0.15%	0.070%
68	6.729	6.718	6.771	VV	464	6175	0.18%	0.086%
69	6.788	6.771	6.815	VV	196	2694	0.08%	0.037%
70	6.838	6.815	6.877	VV	277	4834	0.14%	0.067%
71	6.902	6.877	6.933	VV	197	3918	0.11%	0.054%
72	6.949	6.933	6.981	VV	328	5344	0.16%	0.074%
73	7.005	6.981	7.040	VV	614	13170	0.38%	0.183%
74	7.064	7.040	7.098	VV	578	11253	0.33%	0.156%
75	7.130	7.098	7.155	VV	672	13486	0.39%	0.187%
76	7.169	7.155	7.196	VV	344	5514	0.16%	0.076%
77	7.211	7.196	7.224	VV	239	2902	0.08%	0.040%
78	7.238	7.224	7.258	VV	260	2977	0.09%	0.041%
79	7.293	7.258	7.329	VV	1334	18193	0.53%	0.252%
80	7.353	7.329	7.362	VV	243	3502	0.10%	0.049%
81	7.372	7.362	7.381	VV	249	2287	0.07%	0.032%
82	7.397	7.381	7.413	VV	259	4289	0.13%	0.059%
83	7.434	7.413	7.480	VV	1221	17513	0.51%	0.243%
84	7.524	7.480	7.547	VV	355	8632	0.25%	0.120%
85	7.560	7.547	7.584	VV	120	1744	0.05%	0.024%
86	7.599	7.584	7.611	VV	143	1538	0.04%	0.021%
87	7.621	7.611	7.633	VV	141	1341	0.04%	0.019%
88	7.649	7.633	7.670	VV	126	2170	0.06%	0.030%
89	7.696	7.670	7.734	VV	610	7428	0.22%	0.103%

rteres

90	7.746	7.734	7.761	VV	111	1333	0.04%	0.018%
91	7.780	7.761	7.823	VV	243	5998	0.18%	0.083%
92	7.864	7.823	7.918	VV	196	8486	0.25%	0.118%
93	7.926	7.918	7.944	VV	171	1818	0.05%	0.025%
94	7.956	7.944	7.981	VV	228	2847	0.08%	0.039%
95	8.001	7.981	8.031	VV	657	8083	0.24%	0.112%
96	8.056	8.031	8.077	VV	524	7321	0.21%	0.101%
97	8.095	8.077	8.114	VV	239	3602	0.11%	0.050%
98	8.124	8.114	8.145	VV	174	2644	0.08%	0.037%
99	8.159	8.145	8.176	VV	190	2593	0.08%	0.036%
100	8.181	8.176	8.187	VV	157	989	0.03%	0.014%
101	8.212	8.187	8.274	VV	557	12092	0.35%	0.168%
102	8.306	8.274	8.360	VV	3012	41677	1.22%	0.578%
103	8.374	8.360	8.391	VV	220	2778	0.08%	0.038%
104	8.405	8.391	8.444	VV	353	8893	0.26%	0.123%
105	8.453	8.444	8.484	VV	270	4091	0.12%	0.057%
106	8.501	8.484	8.518	VV	228	3118	0.09%	0.043%
107	8.541	8.518	8.591	VV	311	5748	0.17%	0.080%
108	8.620	8.591	8.706	PV	4574	63821	1.87%	0.884%
109	8.729	8.706	8.739	VV	257	3864	0.11%	0.054%
110	8.768	8.739	8.778	VV	376	6616	0.19%	0.092%
111	8.797	8.778	8.828	VV	467	10444	0.31%	0.145%
112	8.847	8.828	8.888	VV	584	13393	0.39%	0.186%
113	8.913	8.888	8.935	VV	253	4997	0.15%	0.069%
114	8.961	8.935	8.981	VV	260	4609	0.13%	0.064%
115	9.025	8.981	9.048	VV	991	18583	0.54%	0.258%
116	9.066	9.048	9.106	VV	628	14981	0.44%	0.208%
117	9.147	9.106	9.178	VV	1317	28622	0.84%	0.397%
118	9.187	9.178	9.204	VV	220	2820	0.08%	0.039%
119	9.218	9.204	9.243	VV	356	4826	0.14%	0.067%
120	9.267	9.243	9.299	VV	269	5161	0.15%	0.072%
121	9.351	9.299	9.401	VV	255	9576	0.28%	0.133%
122	9.432	9.401	9.451	VV	400	7795	0.23%	0.108%
123	9.462	9.451	9.472	VV	176	1577	0.05%	0.022%
124	9.499	9.472	9.534	VV	774	13494	0.39%	0.187%
125	9.568	9.534	9.613	VV	316	9126	0.27%	0.126%
126	9.638	9.613	9.665	VV	498	8155	0.24%	0.113%
127	9.690	9.665	9.731	VV	604	9721	0.28%	0.135%
128	9.782	9.731	9.813	VV	176	5399	0.16%	0.075%
129	9.832	9.813	9.858	VV	526	7397	0.22%	0.103%
130	9.866	9.858	9.880	VV	187	1714	0.05%	0.024%
131	9.911	9.880	9.956	VV	1298	20734	0.61%	0.287%
132	10.010	9.956	10.048	VV	300	11978	0.35%	0.166%
133	10.080	10.048	10.140	VV	244	7373	0.22%	0.102%
134	10.194	10.140	10.208	VV	239	5805	0.17%	0.080%
135	10.232	10.208	10.264	VV	314	7719	0.23%	0.107%
136	10.307	10.264	10.324	VV	484	11852	0.35%	0.164%
137	10.344	10.324	10.364	VV	391	6897	0.20%	0.096%
138	10.380	10.364	10.454	VV	295	10438	0.31%	0.145%
139	10.465	10.454	10.489	VV	158	2210	0.06%	0.031%
140	10.515	10.489	10.538	PV	333	5987	0.17%	0.083%
141	10.549	10.538	10.564	VV	339	4453	0.13%	0.062%

rteres

142	10.593	10.564	10.613	VV	417	9164	0.27%	0.127%
143	10.651	10.613	10.688	VV	597	16264	0.48%	0.225%
144	10.748	10.688	10.757	VV	490	14479	0.42%	0.201%
145	10.780	10.757	10.854	VV	663	20977	0.61%	0.291%
146	10.871	10.854	10.904	VV	288	6252	0.18%	0.087%
147	10.915	10.904	10.922	VV	204	1831	0.05%	0.025%
148	10.937	10.922	10.961	VV	278	5029	0.15%	0.070%
149	10.975	10.961	11.001	VV	354	5584	0.16%	0.077%
150	11.016	11.001	11.038	VV	282	5006	0.15%	0.069%
151	11.079	11.038	11.141	VV	537	16725	0.49%	0.232%
152	11.158	11.141	11.201	VV	298	5336	0.16%	0.074%
153	11.215	11.201	11.246	VV	154	3149	0.09%	0.044%
154	11.285	11.246	11.330	VV	4085	59505	1.74%	0.825%
155	11.358	11.330	11.403	VV	2480	37929	1.11%	0.526%
156	11.451	11.403	11.481	VV	1270	21286	0.62%	0.295%
157	11.491	11.481	11.501	VV	142	1200	0.04%	0.017%
158	11.504	11.501	11.528	VV	175	1065	0.03%	0.015%
159	11.542	11.528	11.551	PV	71	665	0.02%	0.009%
160	11.579	11.551	11.607	VV	188	3426	0.10%	0.047%
161	11.677	11.607	11.700	VV	291	8964	0.26%	0.124%
162	11.714	11.700	11.734	VV	267	4222	0.12%	0.059%
163	11.746	11.734	11.771	VV	445	5818	0.17%	0.081%
164	11.781	11.771	11.795	VV	224	2719	0.08%	0.038%
165	11.813	11.795	11.861	VV	432	10125	0.30%	0.140%
166	11.879	11.861	11.964	VV	201	10855	0.32%	0.150%
167	12.021	11.964	12.057	VV	506	18800	0.55%	0.261%
168	12.069	12.057	12.111	VV	301	6735	0.20%	0.093%
169	12.124	12.111	12.149	VV	232	4072	0.12%	0.056%
170	12.166	12.149	12.207	VV	308	7910	0.23%	0.110%
171	12.250	12.207	12.288	VV	536	15797	0.46%	0.219%
172	12.314	12.288	12.341	VV	254	6859	0.20%	0.095%
173	12.357	12.341	12.378	VV	215	3170	0.09%	0.044%
174	12.404	12.378	12.416	VV	295	4262	0.12%	0.059%
175	12.476	12.416	12.498	VV	424	13663	0.40%	0.189%
176	12.527	12.498	12.554	VV	513	11041	0.32%	0.153%
177	12.566	12.554	12.571	VV	165	1310	0.04%	0.018%
178	12.607	12.571	12.631	VV	745	11708	0.34%	0.162%
179	12.666	12.631	12.698	VV	1494	20874	0.61%	0.289%
180	12.707	12.698	12.748	VV	233	5023	0.15%	0.070%
181	12.786	12.748	12.852	VV	374	10147	0.30%	0.141%
182	12.874	12.852	12.891	VV	160	2256	0.07%	0.031%
183	12.952	12.891	13.017	VV	244	12234	0.36%	0.170%
184	13.028	13.017	13.036	VV	297	2453	0.07%	0.034%
185	13.041	13.036	13.071	VV	250	4242	0.12%	0.059%
186	13.115	13.071	13.154	VV	291844	3421231	100.00%	47.411%
187	13.166	13.154	13.178	VV	438	5362	0.16%	0.074%
188	13.183	13.178	13.204	VV	381	4189	0.12%	0.058%
189	13.239	13.204	13.255	VV	273	7542	0.22%	0.105%
190	13.280	13.255	13.317	VV	476	11607	0.34%	0.161%
191	13.332	13.317	13.379	VV	400	11401	0.33%	0.158%
192	13.402	13.379	13.460	VV	324	11817	0.35%	0.164%
193	13.494	13.460	13.526	VV	378	11600	0.34%	0.161%
194	13.554	13.526	13.598	VV	432	15156	0.44%	0.210%

rteres

195	13.671	13.598	13.701	VV	348	17218	0.50%	0.239%
196	13.728	13.701	13.771	VV	388	12759	0.37%	0.177%
197	13.815	13.771	13.838	VV	726	16921	0.49%	0.234%
198	13.867	13.838	13.906	VV	1466	25988	0.76%	0.360%
199	13.956	13.906	13.978	VV	355	12915	0.38%	0.179%
200	13.985	13.978	13.996	VV	376	3386	0.10%	0.047%
201	14.005	13.996	14.034	VV	331	6763	0.20%	0.094%
202	14.090	14.034	14.161	VV	550	31237	0.91%	0.433%
203	14.170	14.161	14.188	VV	495	6814	0.20%	0.094%
204	14.198	14.188	14.218	VV	403	6711	0.20%	0.093%
205	14.235	14.218	14.248	VV	463	7199	0.21%	0.100%
206	14.304	14.248	14.371	VV	1311	46029	1.35%	0.638%
207	14.389	14.371	14.398	VV	567	7978	0.23%	0.111%
208	14.433	14.398	14.484	VV	695	26714	0.78%	0.370%
209	14.495	14.484	14.510	VV	543	7733	0.23%	0.107%
210	14.567	14.510	14.614	VV	589	32676	0.96%	0.453%
211	14.628	14.614	14.674	VV	759	17661	0.52%	0.245%
212	14.690	14.674	14.705	VV	568	9317	0.27%	0.129%
213	14.754	14.705	14.801	VV	576	30970	0.91%	0.429%
214	14.816	14.801	14.841	VV	601	12279	0.36%	0.170%
215	14.848	14.841	14.887	VV	491	12870	0.38%	0.178%
216	14.927	14.887	14.947	VV	969	22564	0.66%	0.313%
217	14.972	14.947	15.048	VV	1490	42371	1.24%	0.587%
218	15.051	15.048	15.064	VV	496	4238	0.12%	0.059%
219	15.138	15.100	15.229	VV	476	30345	0.89%	0.421%
220	15.243	15.229	15.299	VV	422	13946	0.41%	0.193%
221	15.313	15.299	15.341	VV	351	8013	0.23%	0.111%
222	15.385	15.341	15.441	VV	434	19830	0.58%	0.275%
223	15.462	15.441	15.471	VV	427	6381	0.19%	0.088%
224	15.494	15.471	15.595	VV	500	23680	0.69%	0.328%
225	15.616	15.595	15.649	VV	329	7569	0.22%	0.105%
226	15.664	15.649	15.711	VV	304	9274	0.27%	0.129%
227	15.767	15.711	15.778	VV	336	9799	0.29%	0.136%
228	15.795	15.778	15.831	VV	253	7114	0.21%	0.099%
229	15.861	15.831	15.882	VV	280	6877	0.20%	0.095%
230	15.921	15.882	15.935	VV	238	5856	0.17%	0.081%
231	15.956	15.935	15.972	VV	400	6612	0.19%	0.092%
232	15.995	15.972	16.119	VV	899	22501	0.66%	0.312%
233	16.164	16.119	16.181	VV	206	5111	0.15%	0.071%
234	16.218	16.181	16.254	VV	177	4202	0.12%	0.058%
235	16.269	16.254	16.350	VV	141	4325	0.13%	0.060%
236	16.391	16.350	16.410	VV	120	2953	0.09%	0.041%
237	16.429	16.410	16.461	VV	119	2599	0.08%	0.036%
238	16.480	16.461	16.515	VV	455	8237	0.24%	0.114%
239	16.522	16.515	16.548	VV	186	2407	0.07%	0.033%
240	16.656	16.548	16.701	VV	289	11377	0.33%	0.158%
241	16.775	16.701	16.807	VV	123	3764	0.11%	0.052%
242	16.843	16.807	16.860	PV	289	4055	0.12%	0.056%
243	16.947	16.860	17.022	VV	896	24971	0.73%	0.346%
244	17.061	17.022	17.094	VV	138	4094	0.12%	0.057%
245	17.100	17.094	17.131	VV	112	1331	0.04%	0.018%
246	17.159	17.131	17.191	VV	135	2557	0.07%	0.035%

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247	17.227	17.191	17.278	PV	236	5939	0.17%	0.082%
248	17.291	17.278	17.308	VV	131	1920	0.06%	0.027%
249	17.336	17.308	17.351	VV	219	3361	0.10%	0.047%
250	17.399	17.351	17.458	VV	1015	19007	0.56%	0.263%
251	17.509	17.458	17.558	VV	164	6743	0.20%	0.093%
252	17.571	17.558	17.591	VV	104	1763	0.05%	0.024%
253	17.661	17.591	17.734	VV	176	7210	0.21%	0.100%
254	17.837	17.734	17.951	VV	1442	32748	0.96%	0.454%
255	18.020	17.951	18.044	VV	237	9585	0.28%	0.133%
256	18.062	18.044	18.081	PV	116	1382	0.04%	0.019%
257	18.104	18.081	18.170	VV	109	3396	0.10%	0.047%
258	18.260	18.170	18.314	VV	1476	28118	0.82%	0.390%
259	18.356	18.314	18.374	VV	105	2211	0.06%	0.031%
260	18.388	18.374	18.424	PV	111	1789	0.05%	0.025%
261	18.526	18.424	18.544	PV	245	10051	0.29%	0.139%
262	18.609	18.544	18.628	VV	186	7253	0.21%	0.101%
263	18.671	18.628	18.734	VV	1634	29151	0.85%	0.404%
264	18.760	18.734	18.794	VV	587	9068	0.27%	0.126%
265	18.824	18.794	18.851	VV	151	3066	0.09%	0.042%
266	18.925	18.851	18.954	PV	210	5116	0.15%	0.071%
267	19.069	18.954	19.131	VV	1112	23859	0.70%	0.331%
268	19.247	19.131	19.274	PV	243	12780	0.37%	0.177%
269	19.319	19.274	19.344	VV	203	6566	0.19%	0.091%
270	19.457	19.344	19.501	VV	1572	37525	1.10%	0.520%
271	19.658	19.501	19.674	VV	444	33398	0.98%	0.463%
272	19.702	19.674	19.728	VV	472	13735	0.40%	0.190%
273	19.746	19.728	19.794	VV	555	16678	0.49%	0.231%
274	19.833	19.794	19.864	VV	961	26034	0.76%	0.361%
275	20.110	19.864	20.144	VV	812	109605	3.20%	1.519%
276	20.197	20.144	20.231	VV	1864	57310	1.68%	0.794%
277	20.564	20.231	20.606	VV	1436	252542	7.38%	3.500%
278	20.798	20.606	20.901	VV	1312	201862	5.90%	2.797%
279	20.968	20.901	21.004	VV	1909	80987	2.37%	1.122%
280	21.023	21.004	21.091	VV	1096	53352	1.56%	0.739%
281	21.164	21.091	21.288	VV	1001	106871	3.12%	1.481%
282	21.418	21.288	21.464	VV	921	85885	2.51%	1.190%
283	21.486	21.464	21.594	VV	828	56209	1.64%	0.779%
284	21.605	21.594	21.621	VV	737	10710	0.31%	0.148%
285	21.631	21.621	21.661	VV	695	14957	0.44%	0.207%
286	21.752	21.661	21.771	VV	633	39933	1.17%	0.553%
287	21.809	21.771	21.884	VV	629	38485	1.12%	0.533%
288	21.937	21.884	21.987	VV	1563	57346	1.68%	0.795%
289	22.016	21.987	22.128	VV	571	38796	1.13%	0.538%
290	22.212	22.128	22.338	VV	383	39091	1.14%	0.542%
291	22.353	22.338	22.417	VV	237	5842	0.17%	0.081%
			Sum of corrected areas:			7216082		

Aliphatic EPH 052425.M Thu Jun 12 07:07:11 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD061125AR\
Data File : FD049446.D
Signal(s) : FID2B.ch
Acq On : 12 Jun 2025 02:48
Operator : YP/AJ
Sample : Q2198-01
Misc :
ALS Vial : 73 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
B-202-SB02

Integration File: autoint1.e
Quant Time: Jun 12 05:03:29 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 052425.M
Quant Title : GC Extractables
QLast Update : Tue May 27 03:11:40 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) S 2-Bromonaphthalene (S...	7.734	6493936	39.065 ug/ml
Spiked Amount 50.000		Recovery =	78.13%
6) S 2-Flurobiphenyl (SURR)	8.599	4465390	39.034 ug/ml
Spiked Amount 50.000 Range 0 - 131		Recovery =	78.07%
11) S ortho-Terphenyl (SURR)	11.644	5682762	28.312 ug/ml
Spiked Amount 50.000		Recovery =	56.62%
Target Compounds			

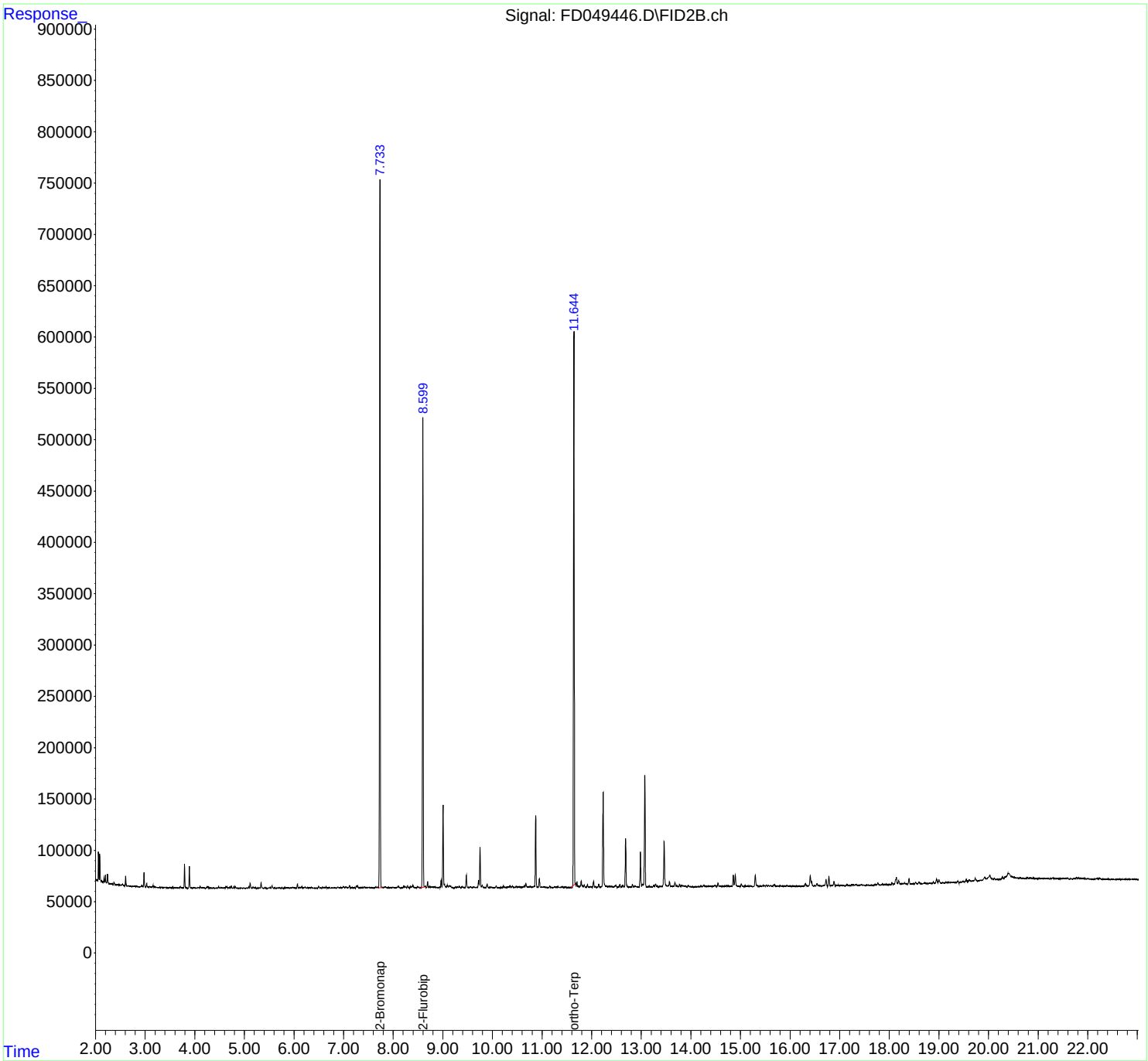
(f)=RT Delta > 1/2 Window (m)=manual int.

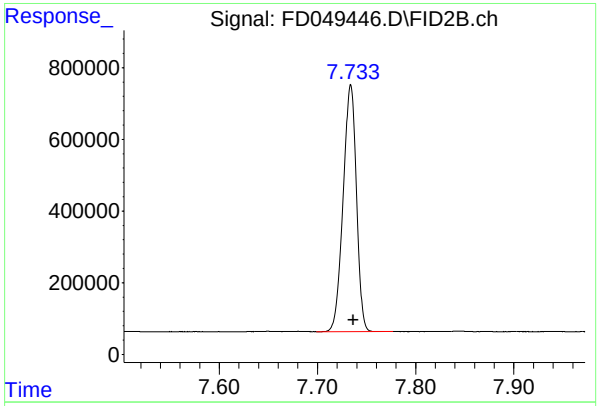
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD061125AR\
Data File : FD049446.D
Signal(s) : FID2B.ch
Acq On : 12 Jun 2025 02:48
Operator : YP/AJ
Sample : Q2198-01
Misc :
ALS Vial : 73 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
B-202-SB02

Integration File: autoint1.e
Quant Time: Jun 12 05:03:29 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 052425.M
Quant Title : GC Extractables
QLast Update : Tue May 27 03:11:40 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

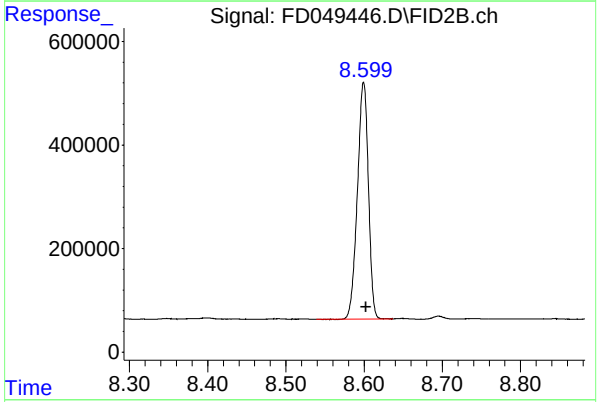




#4 2-Bromonaphthalene (SURR)

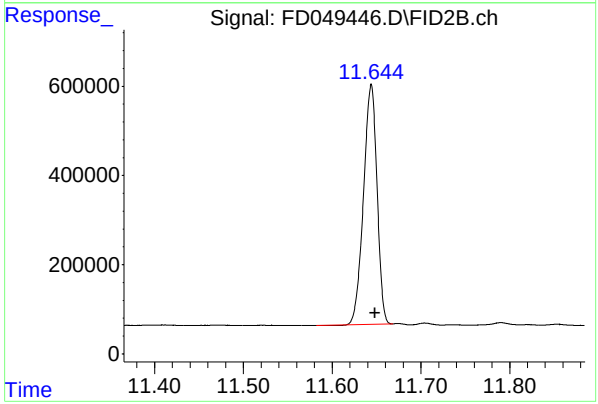
R.T.: 7.734 min
Delta R.T.: -0.002 min
Response: 6493936
Conc: 39.06 ug/ml

Instrument :
FID_D
ClientSampleId :
B-202-SB02



#6 2-Flurobiphenyl (SURR)

R.T.: 8.599 min
Delta R.T.: -0.003 min
Response: 4465390
Conc: 39.03 ug/ml



#11 ortho-Terphenyl (SURR)

R.T.: 11.644 min
Delta R.T.: -0.004 min
Response: 5682762
Conc: 28.31 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD061225AR\
Data File : FD049446.D
Signal(s) : FID2B.ch
Acq On : 12 Jun 2025 02:48
Sample : Q2198-01
Misc :
ALS Vial : 73 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 052425.M
Title : GC Extractables

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.258	4.250	4.271	BV	749	3887	0.06%	0.013%
2	4.283	4.271	4.310	PV	705	6468	0.10%	0.021%
3	4.320	4.310	4.329	PV	296	1835	0.03%	0.006%
4	4.332	4.329	4.369	VV	230	2789	0.04%	0.009%
5	4.376	4.369	4.398	VV	327	3300	0.05%	0.011%
6	4.442	4.406	4.453	VV	352	4846	0.07%	0.016%
7	4.481	4.453	4.508	VV	1557	19010	0.29%	0.063%
8	4.527	4.508	4.542	VV	821	10240	0.16%	0.034%
9	4.551	4.542	4.557	VV	405	2621	0.04%	0.009%
10	4.563	4.557	4.567	VV	332	1745	0.03%	0.006%
11	4.585	4.567	4.588	VV	463	4870	0.07%	0.016%
12	4.598	4.588	4.610	VV	645	6111	0.09%	0.020%
13	4.626	4.610	4.638	VV	1821	18295	0.28%	0.060%
14	4.651	4.638	4.685	VV	1796	23349	0.36%	0.077%
15	4.706	4.685	4.722	VV	1809	20012	0.31%	0.066%
16	4.736	4.722	4.756	VV	2539	25333	0.39%	0.084%
17	4.789	4.756	4.805	VV	1984	21026	0.32%	0.069%
18	4.817	4.805	4.843	VV	1981	20992	0.32%	0.069%
19	4.851	4.843	4.873	VV	533	5195	0.08%	0.017%
20	4.907	4.873	4.912	PV	284	4064	0.06%	0.013%
21	4.926	4.912	4.943	VV	788	8558	0.13%	0.028%
22	4.951	4.943	4.972	VV	354	4231	0.06%	0.014%
23	4.987	4.981	5.005	VV	281	3046	0.05%	0.010%
24	5.012	5.005	5.022	VV	388	2912	0.04%	0.010%
25	5.041	5.022	5.064	VV	633	9834	0.15%	0.032%
26	5.091	5.064	5.099	VV	1147	14317	0.22%	0.047%
27	5.117	5.099	5.141	VV	5243	58652	0.90%	0.193%
28	5.145	5.141	5.150	VV	370	2066	0.03%	0.007%
29	5.174	5.150	5.194	VV	1268	18392	0.28%	0.061%
30	5.201	5.194	5.212	VV	558	5108	0.08%	0.017%
31	5.222	5.212	5.247	VV	857	9981	0.15%	0.033%
32	5.257	5.247	5.282	VV	321	4398	0.07%	0.015%
33	5.309	5.282	5.318	VV	637	7302	0.11%	0.024%
34	5.337	5.318	5.369	VV	5726	60973	0.94%	0.201%
35	5.402	5.369	5.415	VV	419	8258	0.13%	0.027%
36	5.426	5.415	5.452	VV	416	4494	0.07%	0.015%

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37	5.482	5.452	5.497	VV	452	8220	0.13%	0.027%
38	5.519	5.497	5.538	VV	1322	16150	0.25%	0.053%
39	5.558	5.538	5.583	VV	2706	32684	0.50%	0.108%
40	5.588	5.583	5.602	VV	434	3608	0.06%	0.012%
41	5.615	5.602	5.644	VV	619	8734	0.13%	0.029%
42	5.650	5.644	5.659	VV	359	2331	0.04%	0.008%
43	5.679	5.659	5.691	VV	567	7062	0.11%	0.023%
44	5.707	5.691	5.729	VV	710	7179	0.11%	0.024%
45	5.757	5.729	5.791	PV	653	11767	0.18%	0.039%
46	5.811	5.791	5.843	VV	740	15017	0.23%	0.050%
47	5.859	5.843	5.879	VV	932	12458	0.19%	0.041%
48	5.890	5.879	5.908	VV	519	5952	0.09%	0.020%
49	5.930	5.908	5.940	VV	598	6849	0.11%	0.023%
50	5.951	5.940	5.956	VV	459	3565	0.05%	0.012%
51	5.975	5.956	5.994	VV	1316	16975	0.26%	0.056%
52	6.003	5.994	6.027	VV	611	9149	0.14%	0.030%
53	6.042	6.027	6.047	VV	590	5415	0.08%	0.018%
54	6.070	6.047	6.092	VV	4294	50194	0.77%	0.166%
55	6.115	6.092	6.137	VV	1213	18028	0.28%	0.059%
56	6.157	6.137	6.189	VV	1871	28111	0.43%	0.093%
57	6.220	6.189	6.255	VV	1335	26923	0.41%	0.089%
58	6.264	6.255	6.270	VV	534	3817	0.06%	0.013%
59	6.288	6.270	6.328	VV	692	18270	0.28%	0.060%
60	6.345	6.328	6.375	VV	1141	19175	0.29%	0.063%
61	6.380	6.375	6.397	VV	462	3627	0.06%	0.012%
62	6.449	6.397	6.456	VV	378	7236	0.11%	0.024%
63	6.467	6.456	6.476	VV	345	2828	0.04%	0.009%
64	6.498	6.476	6.527	VV	2147	30599	0.47%	0.101%
65	6.538	6.527	6.547	VV	558	5382	0.08%	0.018%
66	6.553	6.547	6.556	VV	514	2531	0.04%	0.008%
67	6.582	6.556	6.601	VV	1033	18348	0.28%	0.061%
68	6.619	6.601	6.629	VV	1016	11806	0.18%	0.039%
69	6.646	6.629	6.672	VV	1840	23186	0.36%	0.076%
70	6.679	6.672	6.700	VV	694	7829	0.12%	0.026%
71	6.718	6.700	6.739	VV	1241	13354	0.20%	0.044%
72	6.745	6.739	6.750	VV	336	1620	0.02%	0.005%
73	6.760	6.750	6.769	VV	337	3126	0.05%	0.010%
74	6.779	6.769	6.795	VV	512	5689	0.09%	0.019%
75	6.807	6.795	6.814	VV	505	4190	0.06%	0.014%
76	6.825	6.814	6.853	VV	582	9809	0.15%	0.032%
77	6.860	6.853	6.865	VV	426	2383	0.04%	0.008%
78	6.887	6.865	6.915	VV	1394	20501	0.31%	0.068%
79	6.939	6.915	6.964	VV	1019	18297	0.28%	0.060%
80	6.993	6.964	7.016	VV	1579	29763	0.46%	0.098%
81	7.036	7.016	7.044	VV	1168	16185	0.25%	0.053%
82	7.054	7.044	7.086	VV	1334	20765	0.32%	0.068%
83	7.120	7.086	7.142	VV	2066	36978	0.57%	0.122%
84	7.156	7.142	7.164	VV	688	6760	0.10%	0.022%
85	7.169	7.164	7.175	VV	599	3841	0.06%	0.013%
86	7.185	7.175	7.200	VV	685	6049	0.09%	0.020%
87	7.206	7.200	7.210	VV	341	1688	0.03%	0.006%
88	7.222	7.210	7.242	VV	555	6771	0.10%	0.022%
89	7.258	7.242	7.268	VV	2324	24001	0.37%	0.079%

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90	7.280	7.268	7.318	VV	2927	37390	0.57%	0.123%
91	7.337	7.318	7.348	VV	851	10083	0.15%	0.033%
92	7.357	7.348	7.369	VV	804	7460	0.11%	0.025%
93	7.385	7.369	7.400	VV	958	12085	0.19%	0.040%
94	7.418	7.400	7.442	VV	1723	23823	0.37%	0.079%
95	7.451	7.442	7.466	VV	888	9981	0.15%	0.033%
96	7.492	7.466	7.496	VV	756	11213	0.17%	0.037%
97	7.511	7.496	7.530	VV	984	13875	0.21%	0.046%
98	7.535	7.530	7.544	VV	478	3252	0.05%	0.011%
99	7.561	7.544	7.572	VV	569	8288	0.13%	0.027%
100	7.575	7.572	7.587	VV	603	4590	0.07%	0.015%
101	7.592	7.587	7.597	VV	447	2607	0.04%	0.009%
102	7.599	7.597	7.618	VV	528	4149	0.06%	0.014%
103	7.649	7.618	7.664	VV	1540	23717	0.36%	0.078%
104	7.680	7.664	7.704	VV	1441	20392	0.31%	0.067%
105	7.734	7.704	7.777	VV	689626	6516998	100.00%	21.496%
106	7.782	7.777	7.793	VV	811	6157	0.09%	0.020%
107	7.799	7.793	7.804	VV	691	4179	0.06%	0.014%
108	7.844	7.804	7.861	VV	1648	36748	0.56%	0.121%
109	7.872	7.861	7.886	VV	699	8882	0.14%	0.029%
110	7.902	7.886	7.922	VV	730	11822	0.18%	0.039%
111	7.940	7.922	7.962	VV	658	12463	0.19%	0.041%
112	7.987	7.962	8.025	VV	1175	27769	0.43%	0.092%
113	8.042	8.025	8.057	VV	680	8598	0.13%	0.028%
114	8.072	8.057	8.080	VV	859	8408	0.13%	0.028%
115	8.097	8.080	8.102	VV	1674	16105	0.25%	0.053%
116	8.111	8.102	8.148	VV	1579	24755	0.38%	0.082%
117	8.166	8.148	8.170	VV	425	4799	0.07%	0.016%
118	8.182	8.170	8.200	VV	835	12887	0.20%	0.043%
119	8.216	8.200	8.230	VV	2634	29913	0.46%	0.099%
120	8.243	8.230	8.265	VV	1828	23767	0.36%	0.078%
121	8.287	8.265	8.306	VV	2460	32648	0.50%	0.108%
122	8.317	8.306	8.332	VV	702	8344	0.13%	0.028%
123	8.347	8.332	8.361	VV	1835	19919	0.31%	0.066%
124	8.400	8.361	8.426	VV	3069	61675	0.95%	0.203%
125	8.435	8.426	8.461	VV	884	13010	0.20%	0.043%
126	8.491	8.461	8.505	VV	1429	21989	0.34%	0.073%
127	8.522	8.505	8.547	VV	942	14180	0.22%	0.047%
128	8.599	8.547	8.637	VV	458817	4507043	69.16%	14.866%
129	8.649	8.637	8.675	VV	1978	27559	0.42%	0.091%
130	8.695	8.675	8.718	VV	6443	71310	1.09%	0.235%
131	8.741	8.718	8.757	VV	1806	30519	0.47%	0.101%
132	8.772	8.757	8.785	VV	1154	16841	0.26%	0.056%
133	8.844	8.785	8.879	VV	1458	54006	0.83%	0.178%
134	8.888	8.879	8.896	VV	753	6686	0.10%	0.022%
135	8.904	8.896	8.920	VV	577	7595	0.12%	0.025%
136	8.934	8.920	8.948	VV	1036	13786	0.21%	0.045%
137	8.966	8.948	8.983	VV	7691	81327	1.25%	0.268%
138	9.007	8.983	9.027	VV	80945	794170	12.19%	2.619%
139	9.036	9.027	9.057	VV	3939	47150	0.72%	0.156%
140	9.062	9.057	9.073	VV	1424	10769	0.17%	0.036%
141	9.091	9.073	9.114	VV	2641	44474	0.68%	0.147%

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142	9.129	9.114	9.150	VV	2413	42874	0.66%	0.141%
143	9.161	9.150	9.185	VV	2158	26267	0.40%	0.087%
144	9.193	9.185	9.222	VV	842	9853	0.15%	0.032%
145	9.254	9.222	9.275	PV	1130	17818	0.27%	0.059%
146	9.293	9.275	9.309	VV	1482	19746	0.30%	0.065%
147	9.333	9.309	9.369	VV	1413	28533	0.44%	0.094%
148	9.392	9.369	9.423	VV	1380	25808	0.40%	0.085%
149	9.439	9.423	9.452	VV	768	8583	0.13%	0.028%
150	9.475	9.452	9.515	VV	12389	137634	2.11%	0.454%
151	9.527	9.515	9.532	VV	533	4310	0.07%	0.014%
152	9.555	9.532	9.586	VV	1483	28620	0.44%	0.094%
153	9.624	9.586	9.643	VV	991	24266	0.37%	0.080%
154	9.655	9.643	9.675	VV	818	12082	0.19%	0.040%
155	9.687	9.675	9.700	VV	886	9929	0.15%	0.033%
156	9.723	9.700	9.734	VV	7411	80776	1.24%	0.266%
157	9.752	9.734	9.775	VV	39797	408503	6.27%	1.347%
158	9.796	9.775	9.837	VV	2740	46401	0.71%	0.153%
159	9.849	9.837	9.856	VV	525	4739	0.07%	0.016%
160	9.896	9.856	9.920	VV	3795	59410	0.91%	0.196%
161	9.923	9.920	9.941	VV	547	4330	0.07%	0.014%
162	9.960	9.941	9.982	VV	927	15339	0.24%	0.051%
163	9.991	9.982	9.995	VV	594	4024	0.06%	0.013%
164	10.001	9.995	10.012	VV	547	4607	0.07%	0.015%
165	10.017	10.012	10.028	VV	434	3091	0.05%	0.010%
166	10.036	10.028	10.041	VV	343	2046	0.03%	0.007%
167	10.077	10.041	10.101	VV	2125	29400	0.45%	0.097%
168	10.105	10.101	10.117	VV	373	2683	0.04%	0.009%
169	10.120	10.117	10.141	VV	256	2818	0.04%	0.009%
170	10.164	10.141	10.178	VV	408	5784	0.09%	0.019%
171	10.188	10.178	10.193	VV	433	2400	0.04%	0.008%
172	10.225	10.193	10.245	VV	1822	28638	0.44%	0.094%
173	10.251	10.245	10.259	VV	614	3965	0.06%	0.013%
174	10.276	10.259	10.292	VV	842	11631	0.18%	0.038%
175	10.309	10.292	10.332	VV	1044	19548	0.30%	0.064%
176	10.354	10.332	10.380	VV	2554	38082	0.58%	0.126%
177	10.405	10.380	10.436	VV	1618	30474	0.47%	0.101%
178	10.440	10.436	10.449	VV	511	3230	0.05%	0.011%
179	10.471	10.449	10.493	VV	1471	23950	0.37%	0.079%
180	10.501	10.493	10.520	VV	849	11979	0.18%	0.040%
181	10.525	10.520	10.544	VV	905	8437	0.13%	0.028%
182	10.556	10.544	10.562	VV	893	7346	0.11%	0.024%
183	10.567	10.562	10.585	VV	827	9041	0.14%	0.030%
184	10.602	10.585	10.610	VV	862	10271	0.16%	0.034%
185	10.619	10.610	10.625	VV	899	7172	0.11%	0.024%
186	10.642	10.625	10.654	VV	1608	20742	0.32%	0.068%
187	10.676	10.654	10.701	VV	3710	62222	0.95%	0.205%
188	10.710	10.701	10.729	VV	962	14157	0.22%	0.047%
189	10.751	10.729	10.766	VV	1505	24455	0.38%	0.081%
190	10.772	10.766	10.794	VV	1192	14185	0.22%	0.047%
191	10.808	10.794	10.827	VV	991	15529	0.24%	0.051%
192	10.842	10.827	10.850	VV	1766	18072	0.28%	0.060%
193	10.873	10.850	10.901	VV	70399	713632	10.95%	2.354%
194	10.908	10.901	10.922	VV	650	6866	0.11%	0.023%

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195	10.947	10.922	10.974	VV	8959	103620	1.59%	0.342%
196	10.984	10.974	10.999	VV	655	8884	0.14%	0.029%
197	11.004	10.999	11.009	VV	604	3112	0.05%	0.010%
198	11.027	11.009	11.033	VV	727	9070	0.14%	0.030%
199	11.047	11.033	11.067	VV	890	14172	0.22%	0.047%
200	11.075	11.067	11.081	VV	513	3873	0.06%	0.013%
201	11.084	11.081	11.104	VV	527	4359	0.07%	0.014%
202	11.108	11.104	11.116	VV	409	2242	0.03%	0.007%
203	11.157	11.116	11.197	VV	1775	28348	0.43%	0.094%
204	11.206	11.197	11.212	VV	219	1353	0.02%	0.004%
205	11.253	11.212	11.276	VV	850	18856	0.29%	0.062%
206	11.289	11.276	11.301	VV	588	6885	0.11%	0.023%
207	11.321	11.301	11.352	VV	1477	19263	0.30%	0.064%
208	11.369	11.352	11.378	VV	517	5939	0.09%	0.020%
209	11.410	11.378	11.445	VV	1120	24779	0.38%	0.082%
210	11.473	11.445	11.495	VV	833	13646	0.21%	0.045%
211	11.523	11.495	11.552	VV	564	9340	0.14%	0.031%
212	11.566	11.552	11.584	VV	305	3597	0.06%	0.012%
213	11.595	11.584	11.604	PV	260	1748	0.03%	0.006%
214	11.644	11.604	11.669	VV	539706	5779317	88.68%	19.062%
215	11.674	11.669	11.689	VV	4340	38678	0.59%	0.128%
216	11.704	11.689	11.724	VV	5489	64256	0.99%	0.212%
217	11.736	11.724	11.755	VV	1618	21077	0.32%	0.070%
218	11.790	11.755	11.813	VV	6332	98837	1.52%	0.326%
219	11.821	11.813	11.835	VV	1837	18203	0.28%	0.060%
220	11.854	11.835	11.876	VV	2847	36107	0.55%	0.119%
221	11.914	11.876	11.949	VV	2944	44567	0.68%	0.147%
222	11.970	11.949	11.975	VV	825	10551	0.16%	0.035%
223	11.986	11.975	12.003	VV	938	12008	0.18%	0.040%
224	12.038	12.003	12.065	VV	6107	79178	1.21%	0.261%
225	12.078	12.065	12.100	VV	1106	14556	0.22%	0.048%
226	12.109	12.100	12.113	VV	262	1623	0.02%	0.005%
227	12.143	12.113	12.166	VV	3255	40866	0.63%	0.135%
228	12.194	12.166	12.200	VV	865	10857	0.17%	0.036%
229	12.233	12.200	12.309	VV	92797	1139789	17.49%	3.759%
230	12.317	12.309	12.334	VV	1029	14081	0.22%	0.046%
231	12.358	12.334	12.377	VV	1154	24324	0.37%	0.080%
232	12.412	12.377	12.445	VV	1104	32860	0.50%	0.108%
233	12.488	12.445	12.513	VV	2356	50881	0.78%	0.168%
234	12.519	12.513	12.530	VV	446	2940	0.05%	0.010%
235	12.568	12.530	12.595	VV	2813	45649	0.70%	0.151%
236	12.628	12.595	12.652	VV	2243	39504	0.61%	0.130%
237	12.685	12.652	12.742	VV	47608	549117	8.43%	1.811%
238	12.753	12.742	12.771	VV	521	6945	0.11%	0.023%
239	12.781	12.771	12.797	VV	533	6289	0.10%	0.021%
240	12.823	12.797	12.854	VV	2824	40529	0.62%	0.134%
241	12.874	12.854	12.889	VV	1750	22630	0.35%	0.075%
242	12.898	12.889	12.940	VV	868	19012	0.29%	0.063%
243	12.945	12.940	12.959	VV	418	3933	0.06%	0.013%
244	12.983	12.959	13.006	VV	34675	381348	5.85%	1.258%
245	13.022	13.006	13.037	VV	3185	46021	0.71%	0.152%
246	13.071	13.037	13.101	VV	109052	1295783	19.88%	4.274%

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247	13.113	13.101	13.129	VV	624	8530	0.13%	0.028%
248	13.156	13.129	13.177	VV	1287	21424	0.33%	0.071%
249	13.187	13.177	13.197	VV	625	6570	0.10%	0.022%
250	13.205	13.197	13.211	VV	509	3409	0.05%	0.011%
251	13.250	13.211	13.268	VV	1826	31969	0.49%	0.105%
252	13.289	13.268	13.314	VV	2946	44595	0.68%	0.147%
253	13.322	13.314	13.344	VV	976	12908	0.20%	0.043%
254	13.381	13.344	13.399	VV	1385	26257	0.40%	0.087%
255	13.406	13.399	13.419	VV	819	8036	0.12%	0.027%
256	13.460	13.419	13.535	VV	44481	604709	9.28%	1.995%
257	13.569	13.535	13.604	VV	5337	92398	1.42%	0.305%
258	13.607	13.604	13.610	VV	576	2405	0.04%	0.008%
259	13.637	13.610	13.655	VV	1185	21823	0.33%	0.072%
260	13.678	13.655	13.702	VV	4637	67542	1.04%	0.223%
261	13.718	13.702	13.737	VV	1896	23598	0.36%	0.078%
262	13.771	13.737	13.792	VV	2864	43954	0.67%	0.145%
263	13.821	13.792	13.836	VV	1890	32335	0.50%	0.107%
264	13.849	13.836	13.868	VV	1422	18976	0.29%	0.063%
265	13.890	13.868	13.905	VV	1408	22121	0.34%	0.073%
266	13.915	13.905	13.929	VV	600	6597	0.10%	0.022%
267	13.946	13.929	13.977	VV	1779	26728	0.41%	0.088%
268	13.984	13.977	14.012	VV	414	6883	0.11%	0.023%
269	14.015	14.012	14.020	VV	332	1118	0.02%	0.004%
270	14.027	14.020	14.045	VV	366	3987	0.06%	0.013%
271	14.056	14.045	14.062	VV	404	3244	0.05%	0.011%
272	14.063	14.062	14.083	VV	406	2585	0.04%	0.009%
273	14.100	14.083	14.140	VV	538	12042	0.18%	0.040%
274	14.147	14.140	14.160	VV	583	4966	0.08%	0.016%
275	14.172	14.160	14.188	VV	434	5890	0.09%	0.019%
276	14.208	14.188	14.234	VV	1466	21892	0.34%	0.072%
277	14.257	14.234	14.295	VV	1853	38569	0.59%	0.127%
278	14.318	14.295	14.341	VV	780	16104	0.25%	0.053%
279	14.384	14.341	14.396	VV	899	21968	0.34%	0.072%
280	14.402	14.396	14.434	VV	868	13135	0.20%	0.043%
281	14.448	14.434	14.458	VV	727	8323	0.13%	0.027%
282	14.482	14.458	14.514	VV	1697	34804	0.53%	0.115%
283	14.520	14.514	14.527	VV	896	6425	0.10%	0.021%
284	14.546	14.527	14.569	VV	3963	53502	0.82%	0.176%
285	14.583	14.569	14.650	VV	1137	36821	0.56%	0.121%
286	14.671	14.650	14.683	VV	737	11502	0.18%	0.038%
287	14.705	14.683	14.713	VV	947	12575	0.19%	0.041%
288	14.731	14.713	14.757	VV	1134	23030	0.35%	0.076%
289	14.762	14.757	14.795	VV	896	13221	0.20%	0.044%
290	14.808	14.795	14.828	VV	972	12681	0.19%	0.042%
291	14.853	14.828	14.872	VV	11542	136308	2.09%	0.450%
292	14.894	14.872	14.957	VV	11694	177262	2.72%	0.585%
293	14.963	14.957	14.982	VV	649	7306	0.11%	0.024%
294	15.016	14.982	15.039	VV	2764	43508	0.67%	0.144%
295	15.045	15.039	15.070	VV	861	10063	0.15%	0.033%
296	15.092	15.070	15.117	VV	1014	15007	0.23%	0.049%
297	15.120	15.117	15.127	VV	364	1583	0.02%	0.005%
298	15.149	15.127	15.175	VV	1183	17098	0.26%	0.056%
299	15.192	15.175	15.207	VV	838	11816	0.18%	0.039%

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300	15.212	15.207	15.216	VV	546	2873	0.04%	0.009%
301	15.221	15.216	15.250	VV	531	7251	0.11%	0.024%
302	15.297	15.250	15.380	PV	11271	184969	2.84%	0.610%
303	15.391	15.380	15.421	VV	651	11566	0.18%	0.038%
304	15.460	15.421	15.476	VV	1403	27206	0.42%	0.090%
305	15.485	15.476	15.505	VV	913	13038	0.20%	0.043%
306	15.525	15.505	15.545	VV	1828	27068	0.42%	0.089%
307	15.564	15.545	15.586	VV	1251	19466	0.30%	0.064%
308	15.607	15.586	15.624	VV	948	16421	0.25%	0.054%
309	15.685	15.624	15.717	VV	1886	53530	0.82%	0.177%
310	15.720	15.717	15.727	VV	534	2853	0.04%	0.009%
311	15.731	15.727	15.735	VV	508	2211	0.03%	0.007%
312	15.743	15.735	15.746	VV	569	3402	0.05%	0.011%
313	15.751	15.746	15.754	VV	693	2626	0.04%	0.009%
314	15.758	15.754	15.760	VV	715	2475	0.04%	0.008%
315	15.767	15.760	15.790	VV	810	11459	0.18%	0.038%
316	15.809	15.790	15.827	VV	823	13525	0.21%	0.045%
317	15.848	15.827	15.865	VV	840	12256	0.19%	0.040%
318	15.900	15.865	15.915	VV	723	15155	0.23%	0.050%
319	15.939	15.915	15.968	VV	1242	22147	0.34%	0.073%
320	15.997	15.968	16.016	VV	576	11758	0.18%	0.039%
321	16.020	16.016	16.029	VV	356	2110	0.03%	0.007%
322	16.033	16.029	16.048	VV	309	2627	0.04%	0.009%
323	16.055	16.048	16.060	VV	331	2035	0.03%	0.007%
324	16.088	16.060	16.120	VV	476	11287	0.17%	0.037%
325	16.126	16.120	16.152	VV	514	5335	0.08%	0.018%
326	16.157	16.152	16.175	VV	341	3609	0.06%	0.012%
327	16.181	16.175	16.210	VV	434	4706	0.07%	0.016%
328	16.225	16.210	16.249	PV	420	5270	0.08%	0.017%
329	16.308	16.249	16.372	VV	2974	67977	1.04%	0.224%
330	16.405	16.372	16.424	VV	10335	149448	2.29%	0.493%
331	16.433	16.424	16.464	VV	4893	60312	0.93%	0.199%
332	16.469	16.464	16.485	VV	399	4005	0.06%	0.013%
333	16.502	16.485	16.519	VV	795	10883	0.17%	0.036%
334	16.538	16.519	16.584	VV	2208	48579	0.75%	0.160%
335	16.587	16.584	16.595	VV	630	3866	0.06%	0.013%
336	16.598	16.595	16.624	VV	525	6656	0.10%	0.022%
337	16.658	16.624	16.670	VV	647	11419	0.18%	0.038%
338	16.725	16.670	16.755	VV	6265	100743	1.55%	0.332%
339	16.782	16.755	16.840	VV	9127	123129	1.89%	0.406%
340	16.852	16.840	16.857	VV	688	5092	0.08%	0.017%
341	16.883	16.857	16.915	VV	4582	62292	0.96%	0.205%
342	16.935	16.915	16.964	VV	742	14724	0.23%	0.049%
343	16.969	16.964	16.982	VV	790	4262	0.07%	0.014%
344	16.987	16.982	16.992	VV	439	1865	0.03%	0.006%
345	17.006	16.992	17.011	VV	440	3659	0.06%	0.012%
346	17.036	17.011	17.067	VV	495	12557	0.19%	0.041%
347	17.079	17.067	17.108	VV	456	6906	0.11%	0.023%
348	17.152	17.117	17.184	VV	950	21643	0.33%	0.071%
349	17.186	17.184	17.189	VV	465	1234	0.02%	0.004%
350	17.193	17.189	17.217	VV	488	5006	0.08%	0.017%
351	17.251	17.217	17.269	VV	1185	22093	0.34%	0.073%

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352	17.280	17.269	17.303	VV	862	13885	0.21%	0.046%
353	17.333	17.303	17.352	VV	1142	21033	0.32%	0.069%
354	17.370	17.352	17.387	VV	598	8323	0.13%	0.027%
355	17.397	17.387	17.402	VV	479	3449	0.05%	0.011%
356	17.440	17.402	17.469	VV	899	21439	0.33%	0.071%
357	17.487	17.469	17.500	VV	398	4664	0.07%	0.015%
358	17.506	17.500	17.517	VV	247	1605	0.02%	0.005%
359	17.561	17.517	17.579	PV	646	12992	0.20%	0.043%
360	17.593	17.579	17.615	VV	274	4310	0.07%	0.014%
361	17.630	17.624	17.634	VV	261	1063	0.02%	0.004%
362	17.646	17.634	17.652	VV	337	2170	0.03%	0.007%
363	17.681	17.652	17.685	VV	201	2078	0.03%	0.007%
364	17.731	17.685	17.750	VV	682	17395	0.27%	0.057%
365	17.771	17.750	17.798	VV	1865	28069	0.43%	0.093%
366	17.805	17.798	17.819	VV	226	1770	0.03%	0.006%
367	17.860	17.819	17.867	VV	743	11996	0.18%	0.040%
368	17.870	17.867	17.900	VV	661	8394	0.13%	0.028%
369	17.912	17.900	17.920	VV	514	4692	0.07%	0.015%
370	17.943	17.920	17.958	VV	669	11994	0.18%	0.040%
371	17.962	17.958	17.969	VV	422	2552	0.04%	0.008%
372	17.973	17.969	17.978	VV	411	1649	0.03%	0.005%
373	17.981	17.978	17.988	VV	272	1812	0.03%	0.006%
374	18.000	17.988	18.029	VV	613	7642	0.12%	0.025%
375	18.054	18.029	18.072	VV	1655	23650	0.36%	0.078%
376	18.082	18.072	18.099	VV	746	8977	0.14%	0.030%
377	18.143	18.099	18.168	VV	7165	147189	2.26%	0.485%
378	18.190	18.168	18.222	VV	3646	61521	0.94%	0.203%
379	18.278	18.222	18.296	VV	1408	29953	0.46%	0.099%
380	18.310	18.296	18.330	VV	1453	20675	0.32%	0.068%
381	18.338	18.330	18.370	VV	597	7442	0.11%	0.025%
382	18.397	18.370	18.425	VV	5378	68566	1.05%	0.226%
383	18.436	18.425	18.458	VV	602	6740	0.10%	0.022%
384	18.464	18.458	18.467	VV	347	1443	0.02%	0.005%
385	18.476	18.467	18.508	VV	531	8868	0.14%	0.029%
386	18.530	18.508	18.557	VV	2001	29441	0.45%	0.097%
387	18.564	18.557	18.570	VV	428	2980	0.05%	0.010%
388	18.600	18.570	18.657	VV	1972	41809	0.64%	0.138%
389	18.704	18.657	18.777	PV	840	27917	0.43%	0.092%
390	18.804	18.777	18.809	VV	514	5141	0.08%	0.017%
391	18.814	18.809	18.819	VV	473	2329	0.04%	0.008%
392	18.827	18.819	18.848	VV	481	5420	0.08%	0.018%
393	18.859	18.848	18.866	PV	331	1971	0.03%	0.007%
394	18.886	18.866	18.920	VV	1188	15481	0.24%	0.051%
395	18.952	18.920	18.978	PV	3528	49566	0.76%	0.163%

Sum of corrected areas: 30317877

Aromatic EPH 052425.M Thu Jun 12 05:52:07 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC061125AL\
Data File : FC069172.D
Signal(s) : FID1A.ch
Acq On : 12 Jun 2025 03:27
Operator : YP/AJ
Sample : Q2198-03
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
B-207-SB02

Integration File: autoint1.e
Quant Time: Jun 12 06:08:23 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 052425.M
Quant Title : GC Extractables
QLast Update : Tue May 27 01:48:55 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
12) S 1-chlorooctadecane (S...	13.116	4598589	51.258 ug/ml
Spiked Amount 50.000		Recovery = 102.52%	
Target Compounds			

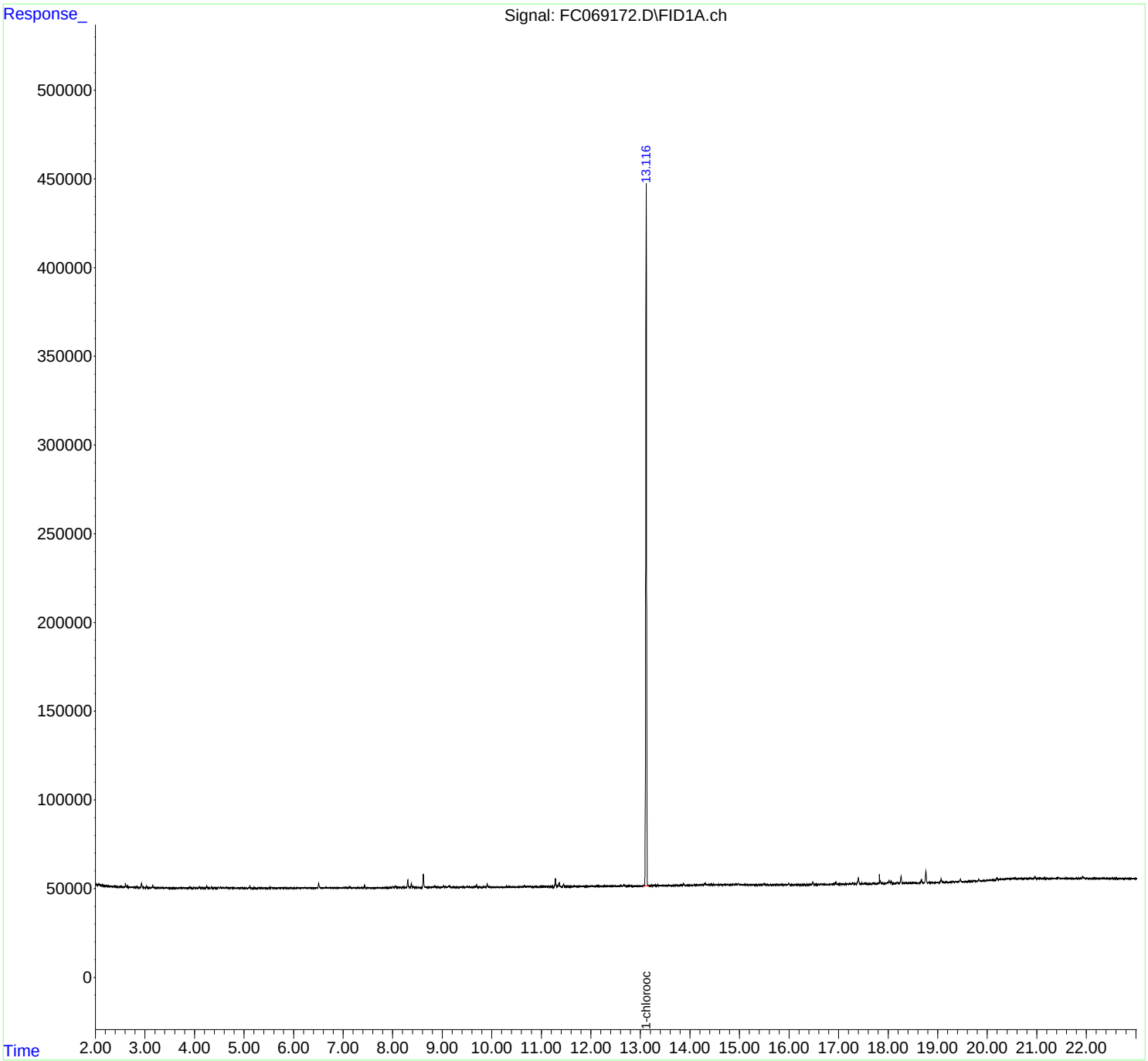
(f)=RT Delta > 1/2 Window (m)=manual int.

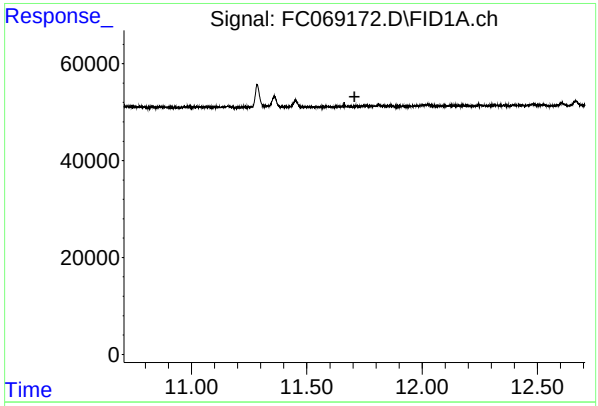
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC061125AL\
Data File : FC069172.D
Signal(s) : FID1A.ch
Acq On : 12 Jun 2025 03:27
Operator : YP/AJ
Sample : Q2198-03
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
B-207-SB02

Integration File: autoint1.e
Quant Time: Jun 12 06:08:23 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 052425.M
Quant Title : GC Extractables
QLast Update : Tue May 27 01:48:55 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

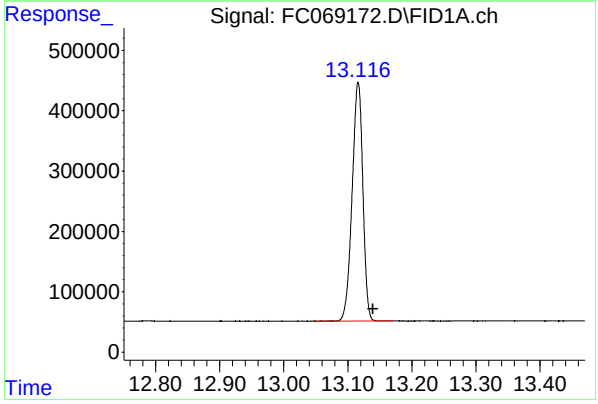




#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.707 min
Response: 0
Conc: N.D.

Instrument :
FID_C
ClientSampleId :
B-207-SB02



#12 1-chlorooctadecane (SURR)

R.T.: 13.116 min
Delta R.T.: -0.023 min
Response: 4598589
Conc: 51.26 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC061125AL\
Data File : FC069172.D
Signal(s) : FID1A.ch
Acq On : 12 Jun 2025 03:27
Sample : Q2198-03
Misc :
ALS Vial : 24 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 052425.M
Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.231	3.205	3.273	BV	67	86	0.00%	0.001%
2	3.284	3.273	3.310	PV	88	745	0.02%	0.009%
3	3.333	3.325	3.341	VV	103	604	0.01%	0.007%
4	3.347	3.341	3.392	VV	100	2081	0.05%	0.024%
5	3.407	3.392	3.485	VV	273	4728	0.10%	0.055%
6	3.515	3.485	3.595	VV	82	2586	0.06%	0.030%
7	3.611	3.595	3.630	PV	141	1854	0.04%	0.022%
8	3.642	3.630	3.650	VV	114	932	0.02%	0.011%
9	3.677	3.650	3.704	VV	183	3682	0.08%	0.043%
10	3.735	3.704	3.769	VV	220	4741	0.10%	0.055%
11	3.784	3.769	3.807	VV	198	3125	0.07%	0.036%
12	3.821	3.807	3.865	VV	282	5438	0.12%	0.063%
13	3.874	3.865	3.887	VV	133	975	0.02%	0.011%
14	3.905	3.887	3.966	VV	646	10764	0.23%	0.125%
15	3.988	3.966	4.021	VV	395	5000	0.11%	0.058%
16	4.047	4.021	4.057	VV	105	1392	0.03%	0.016%
17	4.082	4.057	4.098	VV	519	6358	0.14%	0.074%
18	4.108	4.098	4.160	VV	483	7505	0.16%	0.087%
19	4.171	4.160	4.198	VV	149	2437	0.05%	0.028%
20	4.245	4.198	4.312	VV	1173	16891	0.37%	0.196%
21	4.341	4.312	4.365	VV	578	8116	0.18%	0.094%
22	4.377	4.365	4.387	VV	107	1275	0.03%	0.015%
23	4.410	4.387	4.455	VV	225	4839	0.10%	0.056%
24	4.481	4.455	4.500	VV	571	7132	0.15%	0.083%
25	4.527	4.500	4.547	VV	443	7562	0.16%	0.088%
26	4.558	4.547	4.571	VV	252	3072	0.07%	0.036%
27	4.587	4.571	4.618	VV	422	6167	0.13%	0.072%
28	4.649	4.618	4.691	VV	434	10043	0.22%	0.117%
29	4.705	4.691	4.720	VV	256	3043	0.07%	0.035%
30	4.736	4.720	4.756	VV	494	5330	0.12%	0.062%
31	4.771	4.756	4.819	VV	100	3226	0.07%	0.037%
32	4.838	4.819	4.847	VV	105	1366	0.03%	0.016%
33	4.862	4.847	4.886	VV	188	3161	0.07%	0.037%
34	4.901	4.886	4.918	VV	203	2525	0.05%	0.029%
35	4.933	4.918	4.951	VV	161	2438	0.05%	0.028%
36	4.960	4.951	5.003	VV	117	2296	0.05%	0.027%

rteres

37	5.014	5.003	5.073	VV	117	2923	0.06%	0.034%
38	5.091	5.073	5.100	VV	171	2448	0.05%	0.028%
39	5.118	5.100	5.157	VV	977	12805	0.28%	0.149%
40	5.176	5.157	5.191	PV	216	2436	0.05%	0.028%
41	5.202	5.191	5.258	VV	282	3717	0.08%	0.043%
42	5.267	5.258	5.291	PV	89	340	0.01%	0.004%
43	5.315	5.291	5.335	VV	72	1442	0.03%	0.017%
44	5.344	5.335	5.394	VV	134	2345	0.05%	0.027%
45	5.403	5.394	5.461	VV	152	2806	0.06%	0.033%
46	5.481	5.461	5.496	VV	124	1677	0.04%	0.019%
47	5.524	5.496	5.541	VV	514	6085	0.13%	0.071%
48	5.562	5.541	5.625	VB	499	8172	0.18%	0.095%
49	5.713	5.655	5.745	BV	209	2525	0.05%	0.029%
50	5.760	5.745	5.781	PV	100	1467	0.03%	0.017%
51	5.822	5.781	5.845	VV	214	4716	0.10%	0.055%
52	5.858	5.845	5.891	VV	142	2441	0.05%	0.028%
53	5.909	5.891	5.915	VV	104	964	0.02%	0.011%
54	5.924	5.915	5.960	VV	118	1827	0.04%	0.021%
55	5.987	5.960	6.013	PV	190	2687	0.06%	0.031%
56	6.037	6.013	6.051	VV	157	2164	0.05%	0.025%
57	6.078	6.051	6.104	VV	450	6521	0.14%	0.076%
58	6.124	6.104	6.141	VV	231	3859	0.08%	0.045%
59	6.163	6.141	6.198	VV	466	7773	0.17%	0.090%
60	6.226	6.198	6.265	VV	434	8017	0.17%	0.093%
61	6.285	6.265	6.411	VV	163	8621	0.19%	0.100%
62	6.428	6.411	6.468	VV	231	3901	0.08%	0.045%
63	6.507	6.468	6.578	VV	2991	40362	0.88%	0.469%
64	6.593	6.578	6.610	VV	159	2383	0.05%	0.028%
65	6.657	6.610	6.675	VV	448	7794	0.17%	0.091%
66	6.691	6.675	6.715	VV	217	4080	0.09%	0.047%
67	6.732	6.715	6.760	VV	268	4154	0.09%	0.048%
68	6.770	6.760	6.811	VV	162	2818	0.06%	0.033%
69	6.838	6.811	6.858	VV	150	2514	0.05%	0.029%
70	6.872	6.858	6.885	VV	118	1442	0.03%	0.017%
71	6.898	6.885	6.935	VV	181	2767	0.06%	0.032%
72	6.952	6.935	6.971	VV	187	2806	0.06%	0.033%
73	6.975	6.971	6.988	VV	129	915	0.02%	0.011%
74	7.010	6.988	7.040	VV	292	6926	0.15%	0.080%
75	7.071	7.040	7.095	VV	244	6064	0.13%	0.070%
76	7.133	7.095	7.154	VV	411	9796	0.21%	0.114%
77	7.170	7.154	7.193	VV	282	4772	0.10%	0.055%
78	7.208	7.193	7.235	VV	203	3938	0.09%	0.046%
79	7.241	7.235	7.258	VV	205	1668	0.04%	0.019%
80	7.294	7.258	7.323	VV	573	8653	0.19%	0.100%
81	7.369	7.323	7.378	VV	305	5756	0.12%	0.067%
82	7.396	7.378	7.408	VV	246	3620	0.08%	0.042%
83	7.434	7.408	7.465	VV	1482	19719	0.43%	0.229%
84	7.495	7.465	7.568	VV	273	10548	0.23%	0.122%
85	7.589	7.568	7.653	VV	169	6225	0.14%	0.072%
86	7.696	7.653	7.721	VV	288	6026	0.13%	0.070%
87	7.783	7.721	7.828	PV	221	9593	0.21%	0.111%
88	7.863	7.828	7.876	VV	246	5352	0.12%	0.062%
89	7.888	7.876	7.900	VV	251	3169	0.07%	0.037%

rteres

90	7.912	7.900	7.931	VV	282	3757	0.08%	0.044%
91	7.957	7.931	7.973	VV	258	4444	0.10%	0.052%
92	8.000	7.973	8.023	VV	823	11967	0.26%	0.139%
93	8.057	8.023	8.098	VV	1290	20455	0.44%	0.238%
94	8.126	8.098	8.145	VV	356	6563	0.14%	0.076%
95	8.157	8.145	8.188	VV	372	7017	0.15%	0.081%
96	8.212	8.188	8.260	VV	777	15032	0.33%	0.175%
97	8.306	8.260	8.353	VV	4503	62556	1.36%	0.726%
98	8.378	8.353	8.418	VV	2556	34337	0.74%	0.399%
99	8.429	8.418	8.485	VV	412	11047	0.24%	0.128%
100	8.495	8.485	8.529	VV	267	5665	0.12%	0.066%
101	8.541	8.529	8.566	VV	183	2985	0.06%	0.035%
102	8.620	8.566	8.698	VV	7730	102484	2.22%	1.190%
103	8.727	8.698	8.778	VV	356	13600	0.29%	0.158%
104	8.798	8.778	8.828	VV	446	9419	0.20%	0.109%
105	8.845	8.828	8.901	VV	666	15848	0.34%	0.184%
106	8.907	8.901	8.941	VV	307	4325	0.09%	0.050%
107	8.962	8.941	8.985	VV	286	5177	0.11%	0.060%
108	9.028	8.985	9.050	VV	1089	19801	0.43%	0.230%
109	9.066	9.050	9.080	VV	498	6751	0.15%	0.078%
110	9.094	9.080	9.111	VV	321	5956	0.13%	0.069%
111	9.132	9.111	9.198	VV	1098	28096	0.61%	0.326%
112	9.223	9.198	9.251	VV	298	6544	0.14%	0.076%
113	9.269	9.251	9.301	VV	271	4690	0.10%	0.054%
114	9.312	9.301	9.335	VV	230	2854	0.06%	0.033%
115	9.377	9.335	9.404	VV	298	6939	0.15%	0.081%
116	9.433	9.404	9.458	VV	440	7574	0.16%	0.088%
117	9.501	9.458	9.535	VV	574	12599	0.27%	0.146%
118	9.550	9.535	9.618	VV	503	10999	0.24%	0.128%
119	9.642	9.618	9.667	VV	490	9139	0.20%	0.106%
120	9.690	9.667	9.730	VV	1443	18274	0.40%	0.212%
121	9.755	9.730	9.771	PV	165	3122	0.07%	0.036%
122	9.782	9.771	9.805	VV	219	2378	0.05%	0.028%
123	9.830	9.805	9.862	PV	547	8314	0.18%	0.097%
124	9.872	9.862	9.882	VV	179	1568	0.03%	0.018%
125	9.911	9.882	9.948	VV	1736	24566	0.53%	0.285%
126	9.983	9.948	10.037	VV	214	8381	0.18%	0.097%
127	10.079	10.037	10.095	VV	126	2977	0.06%	0.035%
128	10.114	10.095	10.147	VV	204	3616	0.08%	0.042%
129	10.161	10.147	10.175	VV	89	1180	0.03%	0.014%
130	10.193	10.175	10.218	VV	140	2351	0.05%	0.027%
131	10.257	10.218	10.272	VV	125	3126	0.07%	0.036%
132	10.300	10.272	10.327	VV	371	7352	0.16%	0.085%
133	10.347	10.327	10.364	VV	238	3642	0.08%	0.042%
134	10.391	10.364	10.441	VV	283	7617	0.17%	0.088%
135	10.445	10.441	10.486	VV	175	2566	0.06%	0.030%
136	10.541	10.486	10.565	VV	254	6510	0.14%	0.076%
137	10.584	10.565	10.616	VV	261	6083	0.13%	0.071%
138	10.652	10.616	10.687	VV	607	12412	0.27%	0.144%
139	10.753	10.687	10.775	VV	381	15249	0.33%	0.177%
140	10.781	10.775	10.815	VV	268	4967	0.11%	0.058%
141	10.833	10.815	10.853	VV	216	4196	0.09%	0.049%

rteres

142	10.865	10.853	10.897	VV	292	5361	0.12%	0.062%
143	10.910	10.897	10.949	VV	194	3869	0.08%	0.045%
144	10.981	10.949	11.013	VV	259	6499	0.14%	0.075%
145	11.024	11.013	11.055	VV	329	5181	0.11%	0.060%
146	11.065	11.055	11.071	VV	164	1422	0.03%	0.017%
147	11.081	11.071	11.094	VV	223	2186	0.05%	0.025%
148	11.110	11.094	11.131	VV	230	3028	0.07%	0.035%
149	11.136	11.131	11.141	VV	169	757	0.02%	0.009%
150	11.158	11.141	11.191	VV	400	5116	0.11%	0.059%
151	11.285	11.191	11.321	VV	4804	67996	1.47%	0.790%
152	11.359	11.321	11.420	VV	2382	39409	0.85%	0.458%
153	11.451	11.420	11.498	VV	1515	22230	0.48%	0.258%
154	11.508	11.498	11.551	VV	136	2611	0.06%	0.030%
155	11.586	11.551	11.619	PV	165	4496	0.10%	0.052%
156	11.635	11.619	11.644	VV	146	1717	0.04%	0.020%
157	11.661	11.644	11.672	VV	557	3787	0.08%	0.044%
158	11.678	11.672	11.695	VV	249	2133	0.05%	0.025%
159	11.714	11.695	11.725	VV	168	2631	0.06%	0.031%
160	11.757	11.725	11.788	VV	317	8272	0.18%	0.096%
161	11.811	11.788	11.839	VV	475	8327	0.18%	0.097%
162	11.847	11.839	11.858	VV	212	2298	0.05%	0.027%
163	11.863	11.858	11.898	VV	245	3928	0.09%	0.046%
164	11.905	11.898	11.918	VV	137	1749	0.04%	0.020%
165	11.923	11.918	11.929	VV	193	1037	0.02%	0.012%
166	11.935	11.929	11.942	VV	178	1050	0.02%	0.012%
167	12.026	11.942	12.065	VV	488	18698	0.41%	0.217%
168	12.079	12.065	12.095	VV	228	3002	0.07%	0.035%
169	12.130	12.095	12.212	VV	290	14240	0.31%	0.165%
170	12.246	12.212	12.281	VV	291	8440	0.18%	0.098%
171	12.320	12.281	12.338	VV	266	7070	0.15%	0.082%
172	12.359	12.338	12.380	VV	215	4874	0.11%	0.057%
173	12.398	12.380	12.434	VV	309	6753	0.15%	0.078%
174	12.441	12.434	12.451	VV	207	1819	0.04%	0.021%
175	12.479	12.451	12.518	VV	466	11039	0.24%	0.128%
176	12.528	12.518	12.553	VV	323	4334	0.09%	0.050%
177	12.607	12.553	12.635	VV	683	13589	0.29%	0.158%
178	12.666	12.635	12.751	VV	1151	21827	0.47%	0.253%
179	12.755	12.751	12.762	VV	169	778	0.02%	0.009%
180	12.786	12.762	12.844	VV	519	9918	0.22%	0.115%
181	12.861	12.844	12.886	VV	173	2877	0.06%	0.033%
182	12.944	12.886	12.975	VV	205	7599	0.16%	0.088%
183	12.999	12.975	13.044	VV	205	5998	0.13%	0.070%
184	13.056	13.044	13.060	VV	195	1817	0.04%	0.021%
185	13.116	13.060	13.151	VV	395058	4610259	100.00%	53.536%
186	13.164	13.151	13.196	VV	382	8063	0.17%	0.094%
187	13.218	13.196	13.254	VV	345	8277	0.18%	0.096%
188	13.281	13.254	13.303	VV	589	11021	0.24%	0.128%
189	13.337	13.303	13.351	VV	380	8705	0.19%	0.101%
190	13.356	13.351	13.362	VV	318	1807	0.04%	0.021%
191	13.389	13.362	13.438	VV	384	12763	0.28%	0.148%
192	13.462	13.438	13.497	VV	321	9430	0.20%	0.109%
193	13.564	13.497	13.641	VV	350	23912	0.52%	0.278%
194	13.675	13.641	13.687	VV	388	8792	0.19%	0.102%

rteres

195	13.724	13.687	13.751	VV	440	13453	0.29%	0.156%
196	13.761	13.751	13.787	VV	298	6308	0.14%	0.073%
197	13.817	13.787	13.840	VV	682	14254	0.31%	0.166%
198	13.867	13.840	13.905	VV	1162	24009	0.52%	0.279%
199	13.931	13.905	14.017	VV	438	22762	0.49%	0.264%
200	14.038	14.017	14.060	VV	396	9036	0.20%	0.105%
201	14.105	14.060	14.133	VV	553	18599	0.40%	0.216%
202	14.198	14.133	14.217	VV	481	21466	0.47%	0.249%
203	14.232	14.217	14.243	VV	480	6743	0.15%	0.078%
204	14.306	14.243	14.339	VV	1373	39299	0.85%	0.456%
205	14.348	14.339	14.356	VV	488	4863	0.11%	0.056%
206	14.386	14.356	14.405	VV	660	15417	0.33%	0.179%
207	14.433	14.405	14.458	VV	989	19634	0.43%	0.228%
208	14.515	14.458	14.537	VV	595	23637	0.51%	0.274%
209	14.552	14.537	14.591	VV	699	18902	0.41%	0.219%
210	14.601	14.591	14.620	VV	558	8908	0.19%	0.103%
211	14.636	14.620	14.657	VV	567	10645	0.23%	0.124%
212	14.694	14.657	14.729	VV	661	22449	0.49%	0.261%
213	14.747	14.729	14.763	VV	560	9612	0.21%	0.112%
214	14.818	14.763	14.829	VV	498	18133	0.39%	0.211%
215	14.835	14.829	14.847	VV	492	4873	0.11%	0.057%
216	14.872	14.847	14.895	VV	569	14537	0.32%	0.169%
217	14.928	14.895	14.948	VV	796	18751	0.41%	0.218%
218	14.972	14.948	15.009	VV	1152	24467	0.53%	0.284%
219	15.026	15.009	15.051	VV	458	9521	0.21%	0.111%
220	15.069	15.051	15.088	VV	365	7280	0.16%	0.085%
221	15.113	15.088	15.131	VV	496	9784	0.21%	0.114%
222	15.141	15.131	15.168	VV	463	7316	0.16%	0.085%
223	15.197	15.168	15.252	VV	331	14208	0.31%	0.165%
224	15.259	15.252	15.278	VV	386	4742	0.10%	0.055%
225	15.287	15.278	15.297	VV	351	3383	0.07%	0.039%
226	15.307	15.297	15.338	VV	323	6284	0.14%	0.073%
227	15.385	15.338	15.464	VV	476	17820	0.39%	0.207%
228	15.494	15.464	15.619	VV	960	27255	0.59%	0.316%
229	15.629	15.619	15.655	VV	158	2313	0.05%	0.027%
230	15.686	15.655	15.699	VV	187	3325	0.07%	0.039%
231	15.725	15.699	15.736	VV	232	3327	0.07%	0.039%
232	15.765	15.736	15.800	VV	308	7030	0.15%	0.082%
233	15.816	15.800	15.845	VV	256	4177	0.09%	0.049%
234	15.856	15.845	15.878	VV	132	2608	0.06%	0.030%
235	15.886	15.878	15.903	VV	180	2173	0.05%	0.025%
236	15.918	15.903	15.928	VV	292	2879	0.06%	0.033%
237	15.955	15.928	15.973	VV	288	6008	0.13%	0.070%
238	15.996	15.973	16.080	VV	932	16882	0.37%	0.196%
239	16.147	16.080	16.187	VV	201	6769	0.15%	0.079%
240	16.206	16.187	16.261	VV	245	3972	0.09%	0.046%
241	16.300	16.261	16.327	VV	192	3182	0.07%	0.037%
242	16.340	16.327	16.350	VV	78	741	0.02%	0.009%
243	16.368	16.350	16.386	PV	178	2304	0.05%	0.027%
244	16.398	16.386	16.409	VV	190	1240	0.03%	0.014%
245	16.481	16.409	16.528	VV	1391	25231	0.55%	0.293%
246	16.536	16.528	16.565	VV	210	2217	0.05%	0.026%

rteres

247	16.586	16.565	16.610	VV	205	2916	0.06%	0.034%
248	16.645	16.610	16.724	VV	342	11356	0.25%	0.132%
249	16.745	16.724	16.776	PV	123	2321	0.05%	0.027%
250	16.837	16.776	16.858	VV	232	5807	0.13%	0.067%
251	16.946	16.858	17.019	VV	1247	29687	0.64%	0.345%
252	17.061	17.019	17.071	VV	173	3700	0.08%	0.043%
253	17.083	17.071	17.105	VV	210	2609	0.06%	0.030%
254	17.127	17.105	17.139	VV	143	1844	0.04%	0.021%
255	17.159	17.139	17.171	VV	234	2803	0.06%	0.033%
256	17.197	17.171	17.245	VV	314	9425	0.20%	0.109%
257	17.281	17.245	17.311	VV	435	11195	0.24%	0.130%
258	17.328	17.311	17.342	VV	281	4198	0.09%	0.049%
259	17.398	17.342	17.474	VV	3503	60195	1.31%	0.699%
260	17.523	17.474	17.595	VV	403	13625	0.30%	0.158%
261	17.612	17.595	17.666	VV	185	3088	0.07%	0.036%
262	17.701	17.666	17.726	PV	321	5652	0.12%	0.066%
263	17.735	17.726	17.765	VV	186	2951	0.06%	0.034%
264	17.836	17.765	17.865	VV	1802	34654	0.75%	0.402%
265	17.892	17.865	17.921	VV	411	6578	0.14%	0.076%
266	18.021	17.921	18.043	VV	1506	38701	0.84%	0.449%
267	18.062	18.043	18.099	VV	1293	19172	0.42%	0.223%
268	18.156	18.099	18.167	VV	200	5219	0.11%	0.061%
269	18.192	18.167	18.218	VV	641	11793	0.26%	0.137%
270	18.259	18.218	18.291	VV	3939	57484	1.25%	0.668%
271	18.360	18.291	18.385	PV	505	11698	0.25%	0.136%
272	18.394	18.385	18.455	VV	240	3750	0.08%	0.044%
273	18.524	18.455	18.590	VV	401	13399	0.29%	0.156%
274	18.604	18.590	18.621	VV	122	1525	0.03%	0.018%
275	18.671	18.621	18.719	VV	1843	30951	0.67%	0.359%
276	18.761	18.719	18.811	PV	6737	92343	2.00%	1.072%
277	18.829	18.811	18.874	VV	467	6817	0.15%	0.079%
278	18.886	18.874	18.901	VV	94	1093	0.02%	0.013%
279	18.926	18.901	18.948	VV	173	2869	0.06%	0.033%
280	19.001	18.948	19.031	VV	234	5965	0.13%	0.069%
281	19.069	19.031	19.098	VV	2041	30567	0.66%	0.355%
282	19.115	19.098	19.151	VV	262	4842	0.11%	0.056%
283	19.187	19.151	19.220	VV	256	6019	0.13%	0.070%
284	19.247	19.220	19.278	VV	227	5646	0.12%	0.066%
285	19.285	19.278	19.298	VV	230	2177	0.05%	0.025%
286	19.322	19.298	19.345	VV	252	5335	0.12%	0.062%
287	19.364	19.345	19.376	VV	247	3271	0.07%	0.038%
288	19.398	19.376	19.411	VV	187	3388	0.07%	0.039%
289	19.456	19.411	19.495	VV	1407	28427	0.62%	0.330%
290	19.501	19.495	19.545	VV	209	4447	0.10%	0.052%
291	19.652	19.545	19.667	VV	337	15970	0.35%	0.185%
292	19.740	19.667	19.759	VV	534	20549	0.45%	0.239%
293	19.831	19.759	19.862	VV	1291	36923	0.80%	0.429%
294	19.881	19.862	19.889	VV	493	7343	0.16%	0.085%
295	20.017	19.889	20.028	VV	687	44742	0.97%	0.520%
296	20.075	20.028	20.085	VV	789	23527	0.51%	0.273%
297	20.114	20.085	20.131	VV	858	21129	0.46%	0.245%
298	20.200	20.131	20.221	VV	1810	59740	1.30%	0.694%
299	20.258	20.221	20.271	VV	1161	32302	0.70%	0.375%

rteres

300	20.288	20.271	20.305	VV	1150	21617	0.47%	0.251%
301	20.382	20.305	20.394	VV	1200	61237	1.33%	0.711%
302	20.432	20.394	20.440	VV	1262	33423	0.72%	0.388%
303	20.451	20.440	20.537	VV	1297	70199	1.52%	0.815%
304	20.562	20.537	20.605	VV	1544	52281	1.13%	0.607%
305	20.612	20.605	20.628	VV	1206	15815	0.34%	0.184%
306	20.631	20.628	20.675	VV	1136	30637	0.66%	0.356%
307	20.687	20.675	20.701	VV	1140	17314	0.38%	0.201%
308	20.754	20.701	20.780	VV	1227	55510	1.20%	0.645%
309	20.797	20.780	20.841	VV	1236	42569	0.92%	0.494%
310	20.854	20.841	20.901	VV	1161	38629	0.84%	0.449%
311	20.965	20.901	21.025	VV	1785	89618	1.94%	1.041%
312	21.043	21.025	21.055	VV	1068	18218	0.40%	0.212%
313	21.062	21.055	21.081	VV	993	15560	0.34%	0.181%
314	21.090	21.081	21.183	VV	1009	57159	1.24%	0.664%
315	21.194	21.183	21.291	VV	965	57090	1.24%	0.663%
316	21.318	21.291	21.357	VV	909	34161	0.74%	0.397%
317	21.366	21.357	21.384	VV	912	13519	0.29%	0.157%
318	21.420	21.384	21.545	VV	1081	81925	1.78%	0.951%
319	21.549	21.545	21.581	VV	808	16196	0.35%	0.188%
320	21.594	21.581	21.622	VV	726	17040	0.37%	0.198%
321	21.661	21.622	21.769	VV	706	52518	1.14%	0.610%
322	21.798	21.769	21.808	VV	625	12905	0.28%	0.150%
323	21.819	21.808	21.828	VV	524	6109	0.13%	0.071%
324	21.834	21.828	21.865	VV	602	11018	0.24%	0.128%
325	21.881	21.865	21.890	VV	491	7060	0.15%	0.082%
326	21.932	21.890	22.084	VV	1108	63241	1.37%	0.734%
327	22.100	22.084	22.135	VV	374	8895	0.19%	0.103%
328	22.160	22.135	22.205	VV	302	10129	0.22%	0.118%
329	22.222	22.205	22.256	VV	278	7090	0.15%	0.082%
330	22.263	22.256	22.269	VV	218	1487	0.03%	0.017%
331	22.298	22.269	22.342	VV	223	7456	0.16%	0.087%
332	22.350	22.342	22.360	VV	148	1075	0.02%	0.012%
333	22.376	22.360	22.395	VV	126	1751	0.04%	0.020%
334	22.406	22.395	22.415	PV	133	728	0.02%	0.008%
335	22.431	22.415	22.451	VBA	89	6039	0.13%	0.070%

Sum of corrected areas: 8611587

Aliphatic EPH 052425.M Thu Jun 12 07:07:37 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD061125AR\
Data File : FD049447.D
Signal(s) : FID2B.ch
Acq On : 12 Jun 2025 03:27
Operator : YP/AJ
Sample : Q2198-03
Misc :
ALS Vial : 74 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
B-207-SB02

Integration File: autoint1.e
Quant Time: Jun 12 05:03:44 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 052425.M
Quant Title : GC Extractables
QLast Update : Tue May 27 03:11:40 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) S 2-Bromonaphthalene (S...	7.735	7184963	43.222 ug/ml
Spiked Amount 50.000		Recovery =	86.44%
6) S 2-Flurobiphenyl (SURR)	8.600	4834587	42.262 ug/ml
Spiked Amount 50.000	Range 0 - 131	Recovery =	84.52%
11) S ortho-Terphenyl (SURR)	11.646	7408683	36.910 ug/ml
Spiked Amount 50.000		Recovery =	73.82%
Target Compounds			

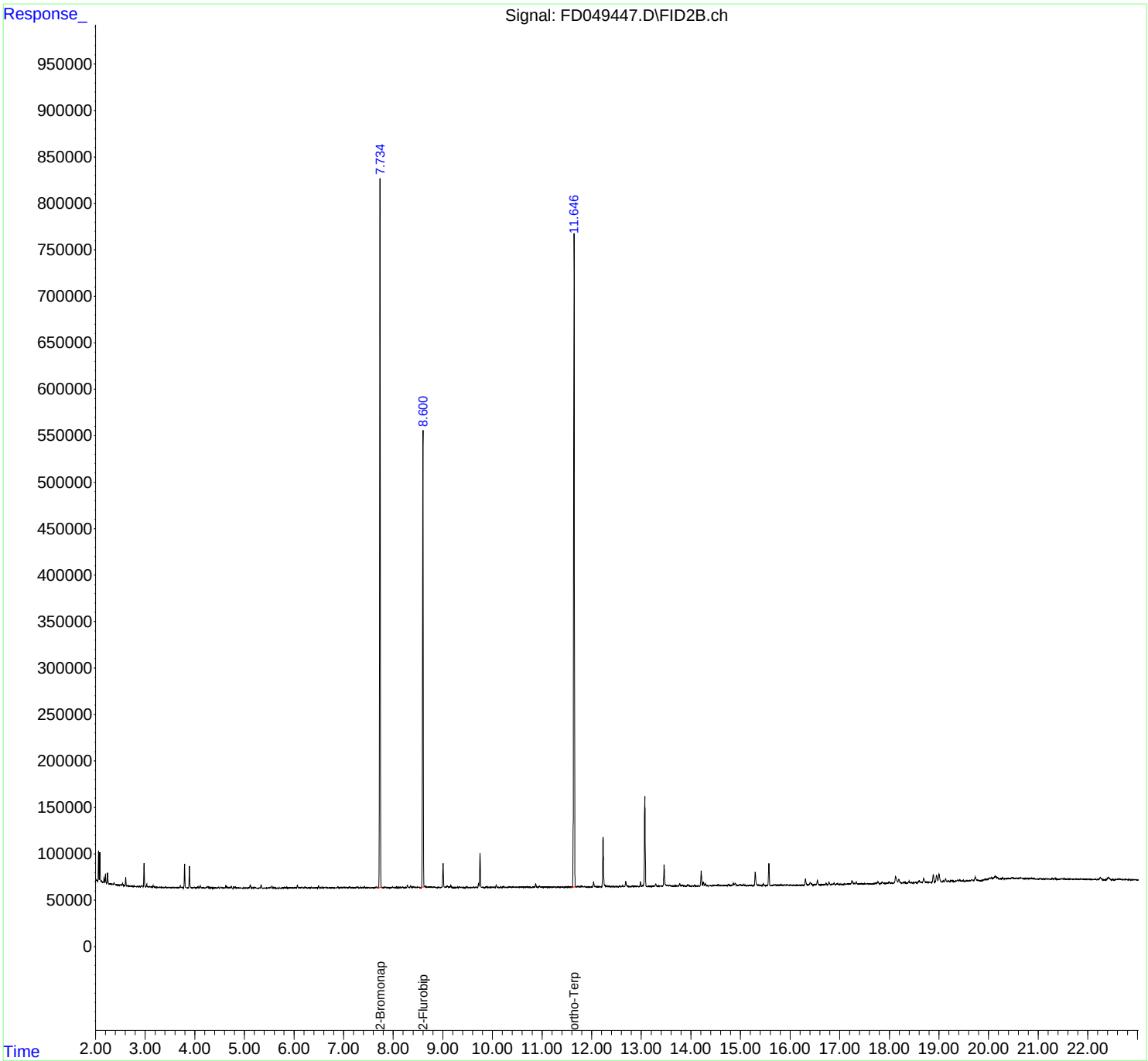
(f)=RT Delta > 1/2 Window (m)=manual int.

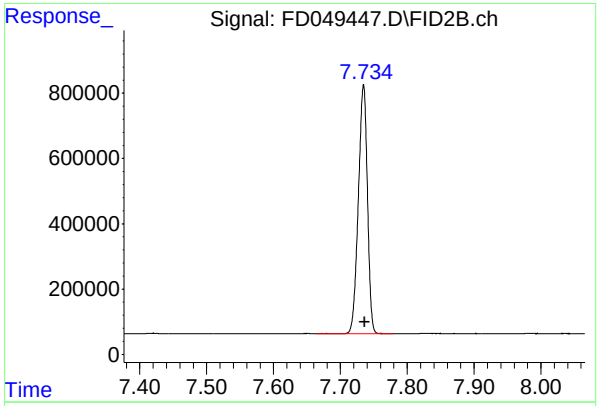
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD061125AR\
Data File : FD049447.D
Signal(s) : FID2B.ch
Acq On : 12 Jun 2025 03:27
Operator : YP/AJ
Sample : Q2198-03
Misc :
ALS Vial : 74 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
B-207-SB02

Integration File: autoint1.e
Quant Time: Jun 12 05:03:44 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 052425.M
Quant Title : GC Extractables
QLast Update : Tue May 27 03:11:40 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

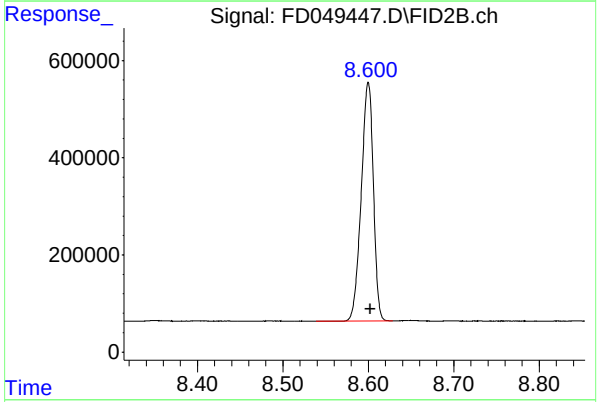




#4 2-Bromonaphthalene (SURR)

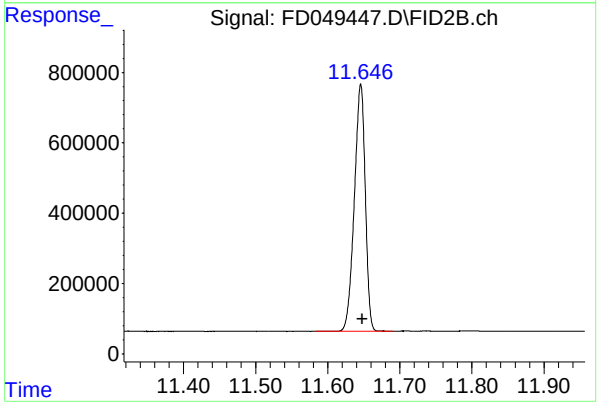
R.T.: 7.735 min
Delta R.T.: -0.002 min
Response: 7184963
Conc: 43.22 ug/ml

Instrument :
FID_D
ClientSampleId :
B-207-SB02



#6 2-Flurobiphenyl (SURR)

R.T.: 8.600 min
Delta R.T.: -0.002 min
Response: 4834587
Conc: 42.26 ug/ml



#11 ortho-Terphenyl (SURR)

R.T.: 11.646 min
Delta R.T.: -0.003 min
Response: 7408683
Conc: 36.91 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD061225AR\
Data File : FD049447.D
Signal(s) : FID2B.ch
Acq On : 12 Jun 2025 03:27
Sample : Q2198-03
Misc :
ALS Vial : 74 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 052425.M
Title : GC Extractables

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.326	4.312	4.331	PV	439	2837	0.04%	0.010%
2	4.335	4.331	4.356	VV	361	2484	0.03%	0.009%
3	4.375	4.365	4.382	VV	337	2048	0.03%	0.007%
4	4.391	4.382	4.402	VV	327	2589	0.03%	0.009%
5	4.414	4.402	4.427	VV	254	3170	0.04%	0.011%
6	4.432	4.427	4.452	VV	395	3757	0.05%	0.013%
7	4.482	4.452	4.510	VV	1536	19452	0.26%	0.068%
8	4.527	4.510	4.549	VV	1184	14662	0.20%	0.051%
9	4.557	4.549	4.573	VV	565	6072	0.08%	0.021%
10	4.583	4.573	4.611	VV	495	8347	0.11%	0.029%
11	4.626	4.611	4.640	VV	2723	26867	0.36%	0.094%
12	4.651	4.640	4.689	VV	1756	21975	0.30%	0.077%
13	4.706	4.689	4.720	VV	1285	13998	0.19%	0.049%
14	4.736	4.720	4.753	VV	2404	23352	0.31%	0.082%
15	4.762	4.753	4.772	VV	362	2788	0.04%	0.010%
16	4.788	4.772	4.803	VV	1800	18405	0.25%	0.064%
17	4.817	4.803	4.847	VV	1635	20021	0.27%	0.070%
18	4.861	4.847	4.884	VV	567	8142	0.11%	0.029%
19	4.888	4.884	4.913	VV	345	4949	0.07%	0.017%
20	4.925	4.913	4.960	VV	540	8864	0.12%	0.031%
21	4.986	4.960	5.002	PV	582	7101	0.10%	0.025%
22	5.014	5.002	5.027	VV	487	5530	0.07%	0.019%
23	5.032	5.027	5.060	VV	531	5786	0.08%	0.020%
24	5.067	5.060	5.073	VV	376	1964	0.03%	0.007%
25	5.088	5.073	5.100	VV	947	9909	0.13%	0.035%
26	5.118	5.100	5.136	VV	3573	40549	0.55%	0.142%
27	5.140	5.136	5.150	VV	597	3554	0.05%	0.012%
28	5.177	5.150	5.189	VV	986	13317	0.18%	0.047%
29	5.200	5.189	5.210	VV	827	7427	0.10%	0.026%
30	5.220	5.210	5.252	VV	878	12534	0.17%	0.044%
31	5.257	5.252	5.287	VV	294	2786	0.04%	0.010%
32	5.303	5.287	5.319	VV	400	4399	0.06%	0.015%
33	5.338	5.319	5.380	VV	3639	40459	0.54%	0.142%
34	5.397	5.380	5.419	VV	527	7365	0.10%	0.026%
35	5.476	5.444	5.507	VV	621	11885	0.16%	0.042%
36	5.521	5.507	5.538	VV	1229	12588	0.17%	0.044%

rteres

37	5.556	5.538	5.577	VV	2157	26185	0.35%	0.092%
38	5.589	5.577	5.605	VV	625	6542	0.09%	0.023%
39	5.614	5.605	5.642	VV	461	6231	0.08%	0.022%
40	5.658	5.642	5.664	VV	228	2238	0.03%	0.008%
41	5.668	5.664	5.692	VV	366	3464	0.05%	0.012%
42	5.698	5.692	5.701	VV	278	1159	0.02%	0.004%
43	5.710	5.701	5.722	VV	402	3396	0.05%	0.012%
44	5.730	5.722	5.739	VV	200	1658	0.02%	0.006%
45	5.758	5.739	5.780	VV	534	7339	0.10%	0.026%
46	5.815	5.789	5.836	VV	583	11958	0.16%	0.042%
47	5.858	5.836	5.877	VV	648	10665	0.14%	0.037%
48	5.887	5.877	5.903	VV	409	4260	0.06%	0.015%
49	5.913	5.903	5.921	VV	287	2440	0.03%	0.009%
50	5.930	5.921	5.942	VV	372	3038	0.04%	0.011%
51	5.971	5.942	5.994	VV	538	10416	0.14%	0.036%
52	6.013	5.994	6.028	VV	576	8779	0.12%	0.031%
53	6.034	6.028	6.052	VV	565	5823	0.08%	0.020%
54	6.069	6.052	6.090	VV	3374	35204	0.47%	0.123%
55	6.114	6.090	6.128	VV	845	11873	0.16%	0.042%
56	6.133	6.128	6.144	VV	439	3150	0.04%	0.011%
57	6.158	6.144	6.176	VV	1428	15688	0.21%	0.055%
58	6.180	6.176	6.193	VV	437	3336	0.04%	0.012%
59	6.222	6.193	6.265	VV	1254	22212	0.30%	0.078%
60	6.288	6.265	6.316	VV	580	9750	0.13%	0.034%
61	6.321	6.316	6.330	VV	327	2344	0.03%	0.008%
62	6.345	6.330	6.380	VV	1054	13399	0.18%	0.047%
63	6.384	6.380	6.402	VV	204	1641	0.02%	0.006%
64	6.421	6.409	6.457	VV	357	6281	0.08%	0.022%
65	6.469	6.465	6.476	VV	302	1545	0.02%	0.005%
66	6.497	6.476	6.520	VV	2726	30436	0.41%	0.107%
67	6.539	6.520	6.552	VV	354	5264	0.07%	0.018%
68	6.580	6.552	6.599	VV	790	13410	0.18%	0.047%
69	6.615	6.599	6.630	VV	871	9463	0.13%	0.033%
70	6.646	6.630	6.667	VV	1280	14476	0.19%	0.051%
71	6.680	6.667	6.701	VV	333	3805	0.05%	0.013%
72	6.719	6.701	6.743	VV	903	9363	0.13%	0.033%
73	6.767	6.743	6.781	VV	371	6021	0.08%	0.021%
74	6.787	6.781	6.795	VV	406	2708	0.04%	0.009%
75	6.802	6.795	6.808	VV	260	1541	0.02%	0.005%
76	6.823	6.808	6.829	VV	427	3349	0.05%	0.012%
77	6.833	6.829	6.844	VV	327	1956	0.03%	0.007%
78	6.885	6.844	6.909	VV	1297	21234	0.29%	0.074%
79	6.942	6.909	6.973	VV	704	16524	0.22%	0.058%
80	6.996	6.973	7.017	VV	1052	17491	0.24%	0.061%
81	7.031	7.017	7.034	VV	819	7238	0.10%	0.025%
82	7.038	7.034	7.047	VV	781	5465	0.07%	0.019%
83	7.057	7.047	7.074	VV	886	9395	0.13%	0.033%
84	7.121	7.074	7.147	VV	1670	31336	0.42%	0.110%
85	7.151	7.147	7.160	VV	472	3522	0.05%	0.012%
86	7.172	7.160	7.184	VV	718	7484	0.10%	0.026%
87	7.191	7.184	7.234	VV	479	9330	0.13%	0.033%
88	7.261	7.234	7.267	VV	744	8167	0.11%	0.029%
89	7.282	7.267	7.324	VV	1254	20783	0.28%	0.073%

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90	7.336	7.324	7.356	VV	778	9025	0.12%	0.032%
91	7.386	7.356	7.404	VV	553	8992	0.12%	0.031%
92	7.420	7.404	7.438	VV	1704	17059	0.23%	0.060%
93	7.454	7.438	7.464	VV	274	3814	0.05%	0.013%
94	7.472	7.464	7.500	VV	339	5768	0.08%	0.020%
95	7.511	7.500	7.526	VV	495	5076	0.07%	0.018%
96	7.537	7.526	7.545	VV	276	2487	0.03%	0.009%
97	7.549	7.545	7.553	VV	296	1048	0.01%	0.004%
98	7.568	7.553	7.577	VV	482	5124	0.07%	0.018%
99	7.580	7.577	7.589	VV	462	2230	0.03%	0.008%
100	7.595	7.589	7.601	VV	343	1351	0.02%	0.005%
101	7.612	7.601	7.623	VV	480	3235	0.04%	0.011%
102	7.652	7.623	7.665	VV	890	11969	0.16%	0.042%
103	7.680	7.665	7.693	VV	721	8378	0.11%	0.029%
104	7.735	7.693	7.792	VV	764524	7205472	97.03%	25.235%
105	7.827	7.792	7.865	VV	1067	26230	0.35%	0.092%
106	7.871	7.865	7.886	VV	683	5282	0.07%	0.018%
107	7.902	7.886	7.922	VV	591	8177	0.11%	0.029%
108	7.949	7.922	7.960	VV	414	6787	0.09%	0.024%
109	7.987	7.960	8.009	VV	1055	17015	0.23%	0.060%
110	8.014	8.009	8.024	VV	496	3295	0.04%	0.012%
111	8.041	8.024	8.056	VV	736	10190	0.14%	0.036%
112	8.071	8.056	8.096	VV	743	11488	0.15%	0.040%
113	8.099	8.096	8.104	VV	406	1822	0.02%	0.006%
114	8.136	8.104	8.149	VV	566	11886	0.16%	0.042%
115	8.154	8.149	8.170	VV	461	5305	0.07%	0.019%
116	8.190	8.170	8.212	VV	891	13487	0.18%	0.047%
117	8.247	8.212	8.261	VV	532	9322	0.13%	0.033%
118	8.287	8.261	8.311	VV	3021	37471	0.50%	0.131%
119	8.319	8.311	8.329	VV	453	3967	0.05%	0.014%
120	8.349	8.329	8.377	VV	1771	28766	0.39%	0.101%
121	8.381	8.377	8.384	VV	718	2869	0.04%	0.010%
122	8.400	8.384	8.420	VV	852	16108	0.22%	0.056%
123	8.426	8.420	8.465	VV	757	14600	0.20%	0.051%
124	8.485	8.465	8.504	VV	1007	14911	0.20%	0.052%
125	8.522	8.504	8.552	VV	658	13244	0.18%	0.046%
126	8.600	8.552	8.629	VV	492040	4873145	65.62%	17.067%
127	8.649	8.629	8.681	VV	1999	38425	0.52%	0.135%
128	8.696	8.681	8.717	VV	1165	16997	0.23%	0.060%
129	8.731	8.717	8.737	VV	815	7985	0.11%	0.028%
130	8.756	8.737	8.760	VV	748	8950	0.12%	0.031%
131	8.764	8.760	8.788	VV	693	11370	0.15%	0.040%
132	8.795	8.788	8.812	VV	666	7594	0.10%	0.027%
133	8.821	8.812	8.834	VV	697	8031	0.11%	0.028%
134	8.845	8.834	8.861	VV	812	10099	0.14%	0.035%
135	8.909	8.861	8.922	VV	857	16771	0.23%	0.059%
136	8.939	8.922	8.957	VV	448	6816	0.09%	0.024%
137	8.968	8.957	8.980	VV	804	8115	0.11%	0.028%
138	9.007	8.980	9.054	VV	26331	280279	3.77%	0.982%
139	9.058	9.054	9.072	VV	894	8628	0.12%	0.030%
140	9.090	9.072	9.117	VV	2354	34988	0.47%	0.123%
141	9.127	9.117	9.143	VV	968	12339	0.17%	0.043%

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142	9.161	9.143	9.186	VV	2053	25304	0.34%	0.089%
143	9.192	9.186	9.214	VV	318	4224	0.06%	0.015%
144	9.239	9.214	9.245	VV	340	3546	0.05%	0.012%
145	9.247	9.245	9.267	VV	307	2074	0.03%	0.007%
146	9.298	9.267	9.315	VV	752	9440	0.13%	0.033%
147	9.334	9.315	9.375	VV	811	15412	0.21%	0.054%
148	9.386	9.375	9.394	VV	470	3892	0.05%	0.014%
149	9.401	9.394	9.408	VV	454	3213	0.04%	0.011%
150	9.412	9.408	9.440	VV	315	3739	0.05%	0.013%
151	9.477	9.440	9.505	VV	1290	20780	0.28%	0.073%
152	9.521	9.505	9.531	VV	535	5808	0.08%	0.020%
153	9.535	9.531	9.543	VV	394	2216	0.03%	0.008%
154	9.553	9.543	9.563	VV	416	3966	0.05%	0.014%
155	9.569	9.563	9.586	VV	542	4225	0.06%	0.015%
156	9.619	9.586	9.644	VV	653	14364	0.19%	0.050%
157	9.664	9.644	9.685	VV	1068	12917	0.17%	0.045%
158	9.722	9.685	9.733	VV	5014	55202	0.74%	0.193%
159	9.752	9.733	9.790	VV	37290	376030	5.06%	1.317%
160	9.797	9.790	9.817	VV	655	8095	0.11%	0.028%
161	9.822	9.817	9.848	VV	396	3715	0.05%	0.013%
162	9.884	9.848	9.920	PV	1444	26773	0.36%	0.094%
163	9.928	9.920	9.934	VV	313	1876	0.03%	0.007%
164	9.947	9.934	9.962	VV	296	3871	0.05%	0.014%
165	9.983	9.962	9.990	VV	496	7040	0.09%	0.025%
166	9.994	9.990	9.998	VV	531	1975	0.03%	0.007%
167	10.003	9.998	10.040	VV	531	7321	0.10%	0.026%
168	10.078	10.040	10.107	VV	2985	37866	0.51%	0.133%
169	10.111	10.107	10.127	VV	448	3188	0.04%	0.011%
170	10.132	10.127	10.136	VV	277	1103	0.01%	0.004%
171	10.141	10.136	10.155	VV	366	2734	0.04%	0.010%
172	10.172	10.155	10.192	VV	848	9964	0.13%	0.035%
173	10.225	10.192	10.244	VV	1546	21932	0.30%	0.077%
174	10.246	10.244	10.261	VV	402	3375	0.05%	0.012%
175	10.277	10.261	10.295	VV	446	5926	0.08%	0.021%
176	10.312	10.295	10.332	VV	512	9424	0.13%	0.033%
177	10.343	10.332	10.383	VV	675	14920	0.20%	0.052%
178	10.407	10.383	10.429	VV	1013	16670	0.22%	0.058%
179	10.432	10.429	10.452	VV	612	5745	0.08%	0.020%
180	10.466	10.452	10.494	VV	912	12745	0.17%	0.045%
181	10.501	10.494	10.513	VV	589	5662	0.08%	0.020%
182	10.522	10.513	10.537	VV	630	6481	0.09%	0.023%
183	10.542	10.537	10.546	VV	468	2248	0.03%	0.008%
184	10.557	10.546	10.566	VV	498	4697	0.06%	0.016%
185	10.573	10.566	10.587	VV	451	4795	0.06%	0.017%
186	10.605	10.587	10.633	VV	725	14133	0.19%	0.049%
187	10.645	10.633	10.654	VV	501	4884	0.07%	0.017%
188	10.677	10.654	10.702	VV	866	15713	0.21%	0.055%
189	10.708	10.702	10.737	VV	637	10636	0.14%	0.037%
190	10.756	10.737	10.797	VV	539	12333	0.17%	0.043%
191	10.810	10.797	10.825	VV	643	8706	0.12%	0.030%
192	10.841	10.825	10.857	VV	1011	11814	0.16%	0.041%
193	10.874	10.857	10.901	VV	4157	46801	0.63%	0.164%
194	10.906	10.901	10.920	VV	433	3991	0.05%	0.014%

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195	10.947	10.920	10.979	VV	1591	26023	0.35%	0.091%
196	10.991	10.979	11.015	VV	671	8633	0.12%	0.030%
197	11.021	11.015	11.033	VV	388	3130	0.04%	0.011%
198	11.041	11.033	11.046	VV	409	2578	0.03%	0.009%
199	11.070	11.046	11.089	VV	523	9923	0.13%	0.035%
200	11.134	11.089	11.169	VV	483	16133	0.22%	0.057%
201	11.180	11.169	11.199	VV	530	6066	0.08%	0.021%
202	11.216	11.199	11.229	VV	460	5359	0.07%	0.019%
203	11.253	11.229	11.282	VV	778	15932	0.21%	0.056%
204	11.292	11.282	11.302	VV	458	4532	0.06%	0.016%
205	11.323	11.302	11.360	VV	1054	16700	0.22%	0.058%
206	11.369	11.360	11.384	PV	342	3196	0.04%	0.011%
207	11.413	11.384	11.435	VV	517	11565	0.16%	0.041%
208	11.476	11.435	11.500	VV	748	13889	0.19%	0.049%
209	11.525	11.500	11.544	VV	460	8138	0.11%	0.029%
210	11.564	11.544	11.577	VV	354	5015	0.07%	0.018%
211	11.587	11.577	11.598	VV	290	2500	0.03%	0.009%
212	11.646	11.598	11.690	VV	703521	7426332	100.00%	26.009%
213	11.710	11.690	11.725	VV	1029	15965	0.21%	0.056%
214	11.736	11.725	11.760	VV	985	14824	0.20%	0.052%
215	11.799	11.760	11.837	VV	1544	36490	0.49%	0.128%
216	11.856	11.837	11.887	VV	597	11230	0.15%	0.039%
217	11.896	11.887	11.903	VV	303	2188	0.03%	0.008%
218	11.926	11.903	11.946	VV	344	5868	0.08%	0.021%
219	11.973	11.946	12.010	VV	451	12014	0.16%	0.042%
220	12.039	12.010	12.065	VV	5698	69661	0.94%	0.244%
221	12.079	12.065	12.105	VV	1189	13875	0.19%	0.049%
222	12.144	12.105	12.165	VV	846	15833	0.21%	0.055%
223	12.173	12.165	12.184	VV	421	4169	0.06%	0.015%
224	12.230	12.184	12.305	VV	53959	645450	8.69%	2.261%
225	12.318	12.305	12.332	VV	900	12703	0.17%	0.044%
226	12.350	12.332	12.394	VV	1029	25878	0.35%	0.091%
227	12.398	12.394	12.422	VV	644	8158	0.11%	0.029%
228	12.433	12.422	12.454	VV	642	8219	0.11%	0.029%
229	12.487	12.454	12.520	VV	848	20388	0.27%	0.071%
230	12.567	12.520	12.594	VV	1427	27769	0.37%	0.097%
231	12.627	12.594	12.647	VV	1516	25468	0.34%	0.089%
232	12.687	12.647	12.737	VV	5999	100337	1.35%	0.351%
233	12.754	12.737	12.800	VV	624	13324	0.18%	0.047%
234	12.820	12.800	12.842	VV	1384	16878	0.23%	0.059%
235	12.857	12.842	12.892	VV	709	14945	0.20%	0.052%
236	12.896	12.892	12.959	VV	510	14523	0.20%	0.051%
237	12.984	12.959	13.007	VV	5164	60132	0.81%	0.211%
238	13.028	13.007	13.039	VV	1217	18809	0.25%	0.066%
239	13.071	13.039	13.107	VV	97570	1163388	15.67%	4.074%
240	13.126	13.107	13.139	VV	509	7744	0.10%	0.027%
241	13.158	13.139	13.174	VV	671	9485	0.13%	0.033%
242	13.184	13.174	13.205	VV	515	7687	0.10%	0.027%
243	13.253	13.205	13.266	VV	865	18593	0.25%	0.065%
244	13.290	13.266	13.314	VV	3023	43496	0.59%	0.152%
245	13.320	13.314	13.337	VV	800	10476	0.14%	0.037%
246	13.352	13.337	13.365	VV	991	12112	0.16%	0.042%

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247	13.383	13.365	13.400	VV	876	16015	0.22%	0.056%
248	13.408	13.400	13.422	VV	840	9232	0.12%	0.032%
249	13.460	13.422	13.554	VV	23089	342028	4.61%	1.198%
250	13.571	13.554	13.599	VV	1603	28899	0.39%	0.101%
251	13.618	13.599	13.627	VV	715	10217	0.14%	0.036%
252	13.643	13.627	13.658	VV	827	11992	0.16%	0.042%
253	13.683	13.658	13.704	VV	1065	20288	0.27%	0.071%
254	13.716	13.704	13.742	VV	850	12297	0.17%	0.043%
255	13.774	13.742	13.796	VV	3030	45071	0.61%	0.158%
256	13.821	13.796	13.840	VV	1315	23679	0.32%	0.083%
257	13.850	13.840	13.875	VV	962	14791	0.20%	0.052%
258	13.887	13.875	13.906	VV	707	9775	0.13%	0.034%
259	13.946	13.906	14.010	VV	1744	47876	0.64%	0.168%
260	14.033	14.010	14.050	VV	901	11905	0.16%	0.042%
261	14.067	14.050	14.089	VV	967	13972	0.19%	0.049%
262	14.109	14.089	14.142	VV	619	12548	0.17%	0.044%
263	14.148	14.142	14.169	VV	442	4869	0.07%	0.017%
264	14.207	14.169	14.234	VV	16380	205488	2.77%	0.720%
265	14.251	14.234	14.274	VV	4854	66141	0.89%	0.232%
266	14.293	14.274	14.363	VV	2386	52329	0.70%	0.183%
267	14.391	14.363	14.404	VV	723	13502	0.18%	0.047%
268	14.413	14.404	14.428	VV	696	7760	0.10%	0.027%
269	14.445	14.428	14.464	VV	877	14858	0.20%	0.052%
270	14.491	14.464	14.528	VV	1267	35935	0.48%	0.126%
271	14.546	14.528	14.570	VV	1601	24458	0.33%	0.086%
272	14.599	14.570	14.643	VV	876	29203	0.39%	0.102%
273	14.659	14.643	14.684	VV	792	14934	0.20%	0.052%
274	14.696	14.684	14.737	VV	670	19124	0.26%	0.067%
275	14.758	14.737	14.787	VV	1961	33403	0.45%	0.117%
276	14.809	14.787	14.827	VV	959	18336	0.25%	0.064%
277	14.855	14.827	14.872	VV	2874	46453	0.63%	0.163%
278	14.893	14.872	14.949	VV	2968	70506	0.95%	0.247%
279	14.966	14.949	14.973	VV	1221	12585	0.17%	0.044%
280	14.990	14.973	15.009	VV	1814	26758	0.36%	0.094%
281	15.016	15.009	15.032	VV	1000	10433	0.14%	0.037%
282	15.055	15.032	15.078	VV	1466	24397	0.33%	0.085%
283	15.094	15.078	15.130	VV	991	13999	0.19%	0.049%
284	15.149	15.130	15.164	VV	699	9397	0.13%	0.033%
285	15.194	15.164	15.205	VV	703	12509	0.17%	0.044%
286	15.217	15.205	15.267	VV	761	13715	0.18%	0.048%
287	15.296	15.267	15.380	VV	14642	227104	3.06%	0.795%
288	15.394	15.380	15.417	VV	858	11540	0.16%	0.040%
289	15.458	15.417	15.479	VV	1895	29675	0.40%	0.104%
290	15.488	15.479	15.507	PV	330	4128	0.06%	0.014%
291	15.526	15.507	15.544	VV	670	9028	0.12%	0.032%
292	15.571	15.544	15.625	VV	24249	285005	3.84%	0.998%
293	15.670	15.625	15.682	VV	773	13646	0.18%	0.048%
294	15.705	15.682	15.734	VV	844	19395	0.26%	0.068%
295	15.780	15.734	15.797	VV	626	18841	0.25%	0.066%
296	15.818	15.797	15.854	VV	749	17274	0.23%	0.060%
297	15.903	15.854	15.915	VV	741	17214	0.23%	0.060%
298	15.939	15.915	15.979	VV	994	16591	0.22%	0.058%
299	15.999	15.979	16.028	VV	707	11399	0.15%	0.040%

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300	16.060	16.028	16.070	VV	178	3476	0.05%	0.012%
301	16.080	16.070	16.109	VV	191	2974	0.04%	0.010%
302	16.149	16.109	16.160	VV	276	4500	0.06%	0.016%
303	16.167	16.160	16.182	VV	232	1231	0.02%	0.004%
304	16.202	16.182	16.217	VV	260	2645	0.04%	0.009%
305	16.229	16.217	16.262	VV	344	4129	0.06%	0.014%
306	16.308	16.262	16.347	VV	6780	105329	1.42%	0.369%
307	16.356	16.347	16.380	VV	731	11868	0.16%	0.042%
308	16.403	16.380	16.425	VV	3020	49311	0.66%	0.173%
309	16.432	16.425	16.464	VV	1533	17454	0.24%	0.061%
310	16.501	16.464	16.522	VV	910	16164	0.22%	0.057%
311	16.549	16.522	16.615	VV	5359	79359	1.07%	0.278%
312	16.725	16.615	16.758	PV	1759	38835	0.52%	0.136%
313	16.783	16.758	16.827	VV	3175	48775	0.66%	0.171%
314	16.886	16.827	16.919	VV	1879	43873	0.59%	0.154%
315	16.959	16.919	16.989	VV	1112	27885	0.38%	0.098%
316	17.012	16.989	17.021	VV	425	6310	0.08%	0.022%
317	17.034	17.021	17.050	VV	466	6605	0.09%	0.023%
318	17.090	17.050	17.112	VV	425	10345	0.14%	0.036%
319	17.153	17.112	17.197	VV	774	28761	0.39%	0.101%
320	17.247	17.197	17.307	VV	4030	100135	1.35%	0.351%
321	17.330	17.307	17.379	VV	2337	44803	0.60%	0.157%
322	17.404	17.379	17.436	VV	701	18082	0.24%	0.063%
323	17.445	17.436	17.479	VV	731	10868	0.15%	0.038%
324	17.510	17.479	17.543	VV	726	18082	0.24%	0.063%
325	17.557	17.543	17.579	VV	542	8465	0.11%	0.030%
326	17.592	17.579	17.600	VV	367	3659	0.05%	0.013%
327	17.616	17.600	17.645	VV	463	7539	0.10%	0.026%
328	17.650	17.645	17.672	VV	274	2618	0.04%	0.009%
329	17.771	17.672	17.805	PV	2377	63534	0.86%	0.223%
330	17.858	17.805	17.887	VV	1912	42338	0.57%	0.148%
331	17.912	17.887	17.939	VV	647	15200	0.20%	0.053%
332	17.957	17.939	17.970	VV	735	10316	0.14%	0.036%
333	17.995	17.970	18.029	VV	1774	30803	0.41%	0.108%
334	18.053	18.029	18.079	VV	852	15484	0.21%	0.054%
335	18.126	18.079	18.172	VV	7638	177132	2.39%	0.620%
336	18.191	18.172	18.220	VV	4641	77100	1.04%	0.270%
337	18.229	18.220	18.254	VV	593	9295	0.13%	0.033%
338	18.280	18.254	18.358	VV	1159	38817	0.52%	0.136%
339	18.397	18.358	18.432	VV	2188	35320	0.48%	0.124%
340	18.450	18.432	18.479	VV	404	8735	0.12%	0.031%
341	18.498	18.479	18.510	VV	475	6495	0.09%	0.023%
342	18.536	18.510	18.558	VV	900	14703	0.20%	0.051%
343	18.600	18.558	18.662	VV	2280	59041	0.80%	0.207%
344	18.692	18.662	18.742	VV	4417	85754	1.15%	0.300%
345	18.763	18.742	18.787	VV	809	13159	0.18%	0.046%
346	18.805	18.787	18.843	PV	535	9850	0.13%	0.034%
347	18.886	18.843	18.917	PV	8214	120113	1.62%	0.421%
348	18.952	18.917	18.978	PV	6503	96822	1.30%	0.339%
			Sum of corrected areas:			28553321		

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC060925AL\
Data File : FC069138.D
Signal(s) : FID1A.ch
Acq On : 09 Jun 2025 18:58
Operator : YP/AJ
Sample : Q2198-05
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
B-202-GW01

Integration File: autoint1.e
Quant Time: Jun 10 05:24:43 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 052425.M
Quant Title : GC Extractables
QLast Update : Tue May 27 01:48:55 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
12) S 1-chlorooctadecane (S...	13.116	5587369	62.280 ug/ml
Spiked Amount 50.000		Recovery = 124.56%	
Target Compounds			

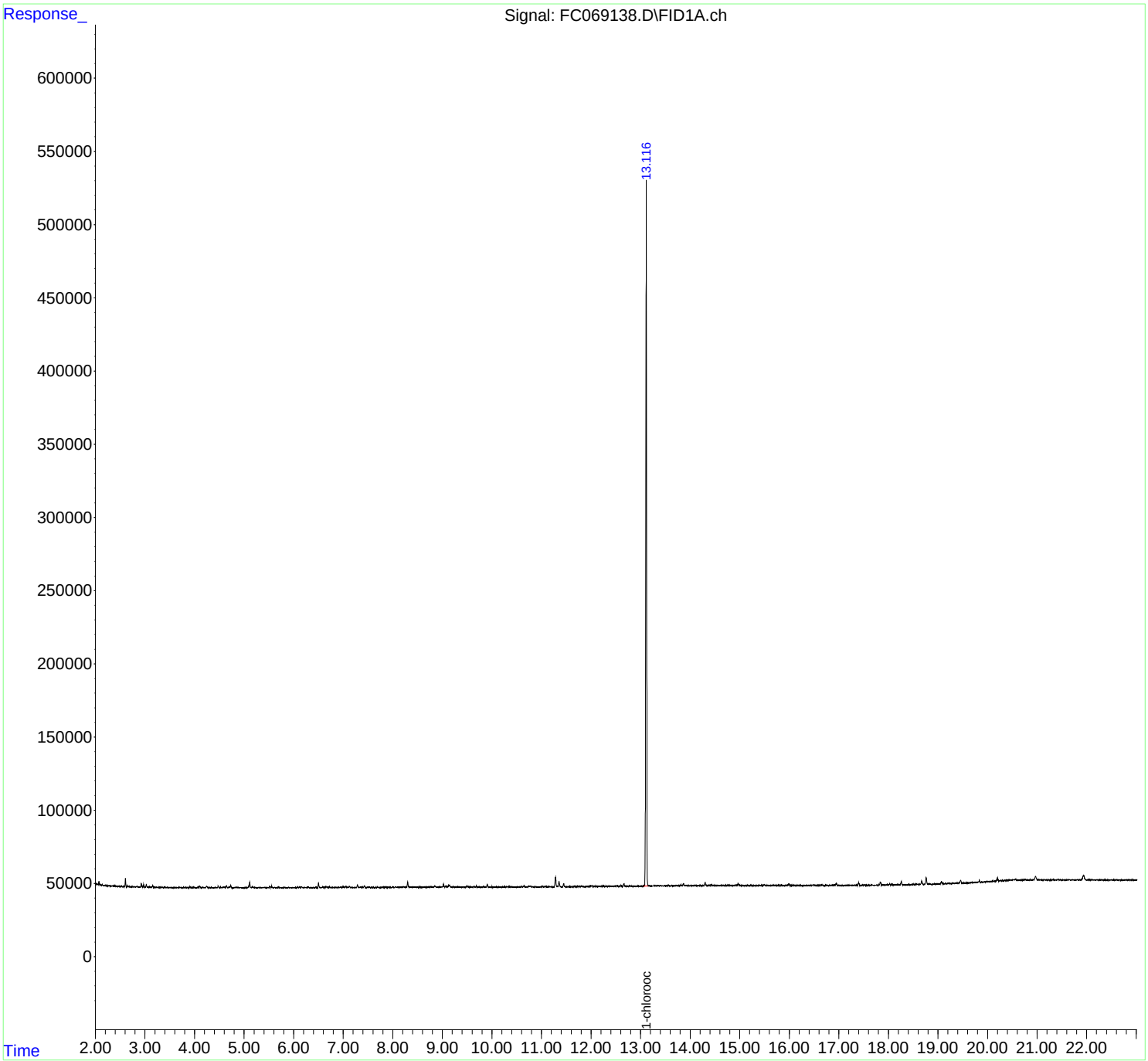
(f)=RT Delta > 1/2 Window (m)=manual int.

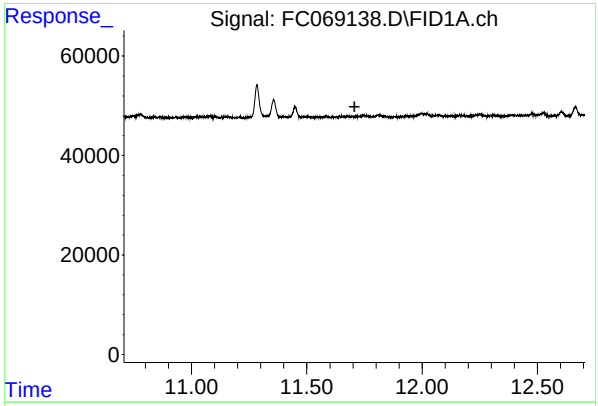
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC060925AL\
Data File : FC069138.D
Signal(s) : FID1A.ch
Acq On : 09 Jun 2025 18:58
Operator : YP/AJ
Sample : Q2198-05
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
B-202-GW01

Integration File: autoint1.e
Quant Time: Jun 10 05:24:43 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 052425.M
Quant Title : GC Extractables
QLast Update : Tue May 27 01:48:55 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

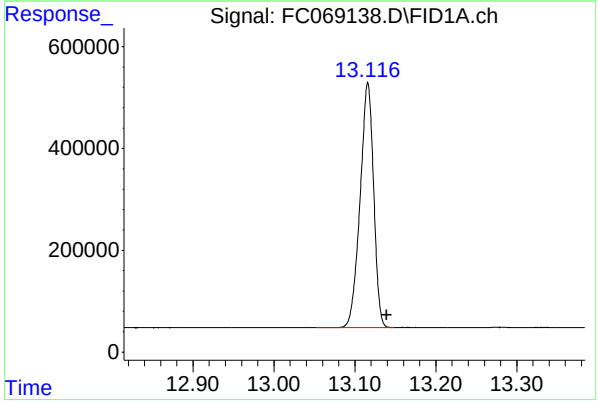




#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.707 min
Response: 0
Conc: N.D.

Instrument :
FID_C
ClientSampleId :
B-202-GW01



#12 1-chlorooctadecane (SURR)

R.T.: 13.116 min
Delta R.T.: -0.023 min
Response: 5587369
Conc: 62.28 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC060925AL\
Data File : FC069138.D
Signal(s) : FID1A.ch
Acq On : 09 Jun 2025 18:58
Sample : Q2198-05
Misc :
ALS Vial : 15 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 052425.M
Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.404	3.332	3.441	PV	587	6544	0.12%	0.063%
2	3.449	3.441	3.489	VV	84	1165	0.02%	0.011%
3	3.504	3.489	3.535	PV	130	1394	0.02%	0.013%
4	3.542	3.535	3.571	VV	89	892	0.02%	0.009%
5	3.578	3.571	3.597	VV	72	657	0.01%	0.006%
6	3.607	3.597	3.625	VV	120	903	0.02%	0.009%
7	3.681	3.625	3.715	VV	205	4193	0.07%	0.040%
8	3.729	3.715	3.751	VV	384	3722	0.07%	0.036%
9	3.778	3.751	3.808	PV	243	4924	0.09%	0.047%
10	3.819	3.808	3.838	VV	196	2150	0.04%	0.021%
11	3.845	3.838	3.881	VV	131	2123	0.04%	0.020%
12	3.901	3.881	3.939	VV	542	8143	0.14%	0.078%
13	3.949	3.939	3.963	VV	100	1230	0.02%	0.012%
14	3.985	3.963	4.033	VV	366	5317	0.09%	0.051%
15	4.076	4.033	4.091	VV	656	8061	0.14%	0.078%
16	4.103	4.091	4.143	VV	1228	12683	0.23%	0.122%
17	4.171	4.143	4.208	VV	260	3525	0.06%	0.034%
18	4.244	4.208	4.275	VV	1093	17819	0.32%	0.171%
19	4.285	4.275	4.315	VV	157	2718	0.05%	0.026%
20	4.322	4.315	4.331	VV	145	1152	0.02%	0.011%
21	4.338	4.331	4.361	VV	248	2310	0.04%	0.022%
22	4.409	4.361	4.453	PV	197	6407	0.11%	0.062%
23	4.477	4.453	4.502	VV	1214	13264	0.24%	0.128%
24	4.521	4.502	4.539	VV	412	5339	0.09%	0.051%
25	4.586	4.539	4.615	VV	456	10433	0.19%	0.100%
26	4.645	4.615	4.672	VV	1255	17976	0.32%	0.173%
27	4.702	4.672	4.716	VV	901	11082	0.20%	0.107%
28	4.732	4.716	4.795	VV	1712	19372	0.34%	0.186%
29	4.858	4.795	4.877	VV	300	8024	0.14%	0.077%
30	4.898	4.877	4.917	VV	269	4116	0.07%	0.040%
31	4.929	4.917	4.995	VV	230	4230	0.08%	0.041%
32	5.036	4.995	5.059	VV	281	5320	0.09%	0.051%
33	5.086	5.059	5.094	VV	698	6960	0.12%	0.067%
34	5.113	5.094	5.145	VV	3868	44448	0.79%	0.428%
35	5.170	5.145	5.187	VV	755	10014	0.18%	0.096%
36	5.198	5.187	5.215	VV	387	4217	0.07%	0.041%

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37	5.223	5.215	5.238	VV	231	1711	0.03%	0.016%
38	5.307	5.238	5.323	PV	282	6812	0.12%	0.066%
39	5.341	5.323	5.376	VV	197	4634	0.08%	0.045%
40	5.391	5.376	5.402	VV	226	2635	0.05%	0.025%
41	5.417	5.402	5.434	VV	188	3082	0.05%	0.030%
42	5.486	5.434	5.500	VV	186	5350	0.10%	0.051%
43	5.518	5.500	5.537	VV	915	10481	0.19%	0.101%
44	5.558	5.537	5.585	VV	1333	15974	0.28%	0.154%
45	5.616	5.585	5.641	VV	360	4872	0.09%	0.047%
46	5.704	5.641	5.725	VV	318	8751	0.16%	0.084%
47	5.737	5.725	5.785	VV	153	3568	0.06%	0.034%
48	5.810	5.785	5.847	VV	358	7737	0.14%	0.074%
49	5.859	5.847	5.877	VV	193	2349	0.04%	0.023%
50	5.899	5.877	5.921	VV	191	3585	0.06%	0.034%
51	5.933	5.921	5.953	VV	96	1669	0.03%	0.016%
52	5.973	5.953	6.001	VV	164	3028	0.05%	0.029%
53	6.021	6.001	6.055	VV	186	3897	0.07%	0.037%
54	6.073	6.055	6.098	VV	442	6268	0.11%	0.060%
55	6.117	6.098	6.141	VV	326	5197	0.09%	0.050%
56	6.159	6.141	6.193	VV	744	9521	0.17%	0.092%
57	6.221	6.193	6.251	VV	384	5838	0.10%	0.056%
58	6.292	6.251	6.330	VV	339	7830	0.14%	0.075%
59	6.345	6.330	6.377	VV	134	2066	0.04%	0.020%
60	6.388	6.377	6.399	PV	99	962	0.02%	0.009%
61	6.409	6.399	6.438	VV	93	1895	0.03%	0.018%
62	6.502	6.438	6.563	VV	3288	41015	0.73%	0.395%
63	6.587	6.563	6.604	VV	546	6574	0.12%	0.063%
64	6.621	6.604	6.634	VV	341	4325	0.08%	0.042%
65	6.652	6.634	6.671	VV	1068	11774	0.21%	0.113%
66	6.685	6.671	6.707	VV	304	4469	0.08%	0.043%
67	6.725	6.707	6.748	VV	523	6468	0.11%	0.062%
68	6.782	6.748	6.808	VV	137	3218	0.06%	0.031%
69	6.813	6.808	6.825	VV	155	1015	0.02%	0.010%
70	6.836	6.825	6.847	VV	150	1403	0.02%	0.013%
71	6.865	6.847	6.921	VV	200	3949	0.07%	0.038%
72	6.945	6.921	6.981	VV	511	8051	0.14%	0.077%
73	6.999	6.981	7.034	VV	712	12992	0.23%	0.125%
74	7.048	7.034	7.089	VV	546	12303	0.22%	0.118%
75	7.126	7.089	7.157	VV	934	16008	0.28%	0.154%
76	7.166	7.157	7.180	VV	203	1778	0.03%	0.017%
77	7.205	7.180	7.221	VV	192	2772	0.05%	0.027%
78	7.230	7.221	7.258	VV	167	2203	0.04%	0.021%
79	7.289	7.258	7.326	VV	2007	24539	0.44%	0.236%
80	7.367	7.326	7.381	VV	285	6691	0.12%	0.064%
81	7.394	7.381	7.407	VV	358	3599	0.06%	0.035%
82	7.428	7.407	7.475	VV	1390	19267	0.34%	0.185%
83	7.492	7.475	7.508	VV	287	4658	0.08%	0.045%
84	7.519	7.508	7.571	VV	411	6454	0.11%	0.062%
85	7.586	7.571	7.631	VV	139	2997	0.05%	0.029%
86	7.648	7.631	7.665	VV	168	1606	0.03%	0.015%
87	7.691	7.665	7.721	VV	693	8503	0.15%	0.082%
88	7.729	7.721	7.734	VV	67	549	0.01%	0.005%
89	7.773	7.734	7.814	VV	222	6535	0.12%	0.063%

rteres

90	7.842	7.814	7.870	VV	234	5369	0.10%	0.052%
91	7.888	7.870	7.933	VV	228	5753	0.10%	0.055%
92	7.952	7.933	7.975	VV	307	3649	0.06%	0.035%
93	7.997	7.975	8.031	VV	666	9902	0.18%	0.095%
94	8.053	8.031	8.071	VV	582	6943	0.12%	0.067%
95	8.088	8.071	8.102	VV	279	3677	0.07%	0.035%
96	8.125	8.102	8.142	VV	301	5159	0.09%	0.050%
97	8.158	8.142	8.185	VV	220	5002	0.09%	0.048%
98	8.209	8.185	8.272	VV	684	18590	0.33%	0.179%
99	8.302	8.272	8.360	VV	3938	54314	0.97%	0.522%
100	8.374	8.360	8.475	VV	473	22183	0.39%	0.213%
101	8.496	8.475	8.518	VV	315	5407	0.10%	0.052%
102	8.538	8.518	8.566	VV	401	6244	0.11%	0.060%
103	8.583	8.566	8.601	VV	110	2071	0.04%	0.020%
104	8.656	8.601	8.691	VV	347	12303	0.22%	0.118%
105	8.722	8.691	8.741	VV	331	7854	0.14%	0.076%
106	8.763	8.741	8.778	VV	527	8955	0.16%	0.086%
107	8.795	8.778	8.818	VV	500	10091	0.18%	0.097%
108	8.842	8.818	8.879	VV	834	18674	0.33%	0.180%
109	8.906	8.879	8.934	VV	325	8237	0.15%	0.079%
110	8.960	8.934	8.978	VV	407	7081	0.13%	0.068%
111	9.025	8.978	9.045	VV	2146	34191	0.61%	0.329%
112	9.064	9.045	9.099	VV	772	18127	0.32%	0.174%
113	9.143	9.099	9.198	VV	1580	44520	0.79%	0.428%
114	9.214	9.198	9.245	VV	522	8436	0.15%	0.081%
115	9.263	9.245	9.288	VV	370	6777	0.12%	0.065%
116	9.313	9.288	9.330	VV	264	5233	0.09%	0.050%
117	9.350	9.330	9.401	VV	275	8856	0.16%	0.085%
118	9.427	9.401	9.449	VV	413	8899	0.16%	0.086%
119	9.462	9.449	9.472	VV	255	2769	0.05%	0.027%
120	9.497	9.472	9.531	VV	859	16426	0.29%	0.158%
121	9.546	9.531	9.578	VV	478	8893	0.16%	0.086%
122	9.584	9.578	9.613	VV	317	5343	0.09%	0.051%
123	9.636	9.613	9.659	VV	536	9555	0.17%	0.092%
124	9.687	9.659	9.798	VV	747	20935	0.37%	0.201%
125	9.827	9.798	9.880	VV	527	13163	0.23%	0.127%
126	9.908	9.880	9.957	VV	2157	30802	0.55%	0.296%
127	9.975	9.957	9.991	VV	320	4524	0.08%	0.044%
128	10.005	9.991	10.045	VV	485	8008	0.14%	0.077%
129	10.057	10.045	10.068	VV	218	2475	0.04%	0.024%
130	10.080	10.068	10.104	VV	231	3388	0.06%	0.033%
131	10.125	10.104	10.147	PV	160	3145	0.06%	0.030%
132	10.192	10.147	10.205	VV	270	5549	0.10%	0.053%
133	10.233	10.205	10.245	VV	320	5636	0.10%	0.054%
134	10.253	10.245	10.268	VV	306	3283	0.06%	0.032%
135	10.302	10.268	10.322	VV	486	10475	0.19%	0.101%
136	10.343	10.322	10.361	VV	405	6264	0.11%	0.060%
137	10.391	10.361	10.408	VV	337	6485	0.12%	0.062%
138	10.417	10.408	10.455	VV	226	4181	0.07%	0.040%
139	10.468	10.455	10.480	VV	143	1763	0.03%	0.017%
140	10.512	10.480	10.524	VV	307	4774	0.08%	0.046%
141	10.542	10.524	10.563	VV	307	5611	0.10%	0.054%

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142	10.593	10.563	10.611	VV	362	8190	0.15%	0.079%
143	10.649	10.611	10.685	VV	799	17313	0.31%	0.167%
144	10.779	10.685	10.814	VV	838	29430	0.52%	0.283%
145	10.840	10.814	10.850	VV	234	3769	0.07%	0.036%
146	10.864	10.850	10.890	VV	243	3847	0.07%	0.037%
147	10.900	10.890	10.911	VV	166	1707	0.03%	0.016%
148	10.933	10.911	10.953	VV	206	2904	0.05%	0.028%
149	10.973	10.953	11.001	VV	236	4734	0.08%	0.046%
150	11.019	11.001	11.028	VV	296	3165	0.06%	0.030%
151	11.037	11.028	11.055	VV	270	3848	0.07%	0.037%
152	11.076	11.055	11.095	VV	409	7216	0.13%	0.069%
153	11.104	11.095	11.125	VV	294	2875	0.05%	0.028%
154	11.157	11.125	11.225	VV	220	7477	0.13%	0.072%
155	11.284	11.225	11.317	VV	6706	91602	1.63%	0.881%
156	11.356	11.317	11.387	VV	3643	53201	0.95%	0.512%
157	11.402	11.387	11.420	VV	202	3363	0.06%	0.032%
158	11.449	11.420	11.485	VV	2145	28200	0.50%	0.271%
159	11.505	11.485	11.531	VV	226	3757	0.07%	0.036%
160	11.541	11.531	11.563	VV	131	1713	0.03%	0.016%
161	11.584	11.563	11.604	VV	260	3279	0.06%	0.032%
162	11.678	11.604	11.688	VV	282	7939	0.14%	0.076%
163	11.714	11.688	11.727	VV	250	4535	0.08%	0.044%
164	11.745	11.727	11.780	VV	454	8893	0.16%	0.086%
165	11.810	11.780	11.874	VV	459	12461	0.22%	0.120%
166	11.884	11.874	11.898	VV	127	1417	0.03%	0.014%
167	11.912	11.898	11.929	VV	198	2699	0.05%	0.026%
168	11.955	11.929	11.968	VV	235	4646	0.08%	0.045%
169	11.997	11.968	12.008	VV	819	12526	0.22%	0.120%
170	12.020	12.008	12.050	VV	687	11253	0.20%	0.108%
171	12.072	12.050	12.111	VV	420	9957	0.18%	0.096%
172	12.127	12.111	12.141	VV	281	4185	0.07%	0.040%
173	12.168	12.141	12.210	VV	317	10728	0.19%	0.103%
174	12.248	12.210	12.284	VV	530	15244	0.27%	0.147%
175	12.307	12.284	12.341	VV	289	7509	0.13%	0.072%
176	12.391	12.341	12.420	VV	355	11470	0.20%	0.110%
177	12.477	12.420	12.501	VV	609	17575	0.31%	0.169%
178	12.526	12.501	12.558	VV	791	15280	0.27%	0.147%
179	12.604	12.558	12.637	VV	971	17921	0.32%	0.172%
180	12.665	12.637	12.718	VV	1984	34218	0.61%	0.329%
181	12.727	12.718	12.757	VV	382	6817	0.12%	0.066%
182	12.785	12.757	12.865	VV	676	18978	0.34%	0.183%
183	12.925	12.865	12.948	VV	390	12683	0.23%	0.122%
184	12.959	12.948	12.974	VV	315	4557	0.08%	0.044%
185	12.985	12.974	13.008	VV	378	5773	0.10%	0.056%
186	13.031	13.008	13.045	VV	383	6354	0.11%	0.061%
187	13.116	13.045	13.207	VV	478912	5627042	100.00%	54.126%
188	13.219	13.207	13.235	VV	443	6194	0.11%	0.060%
189	13.278	13.235	13.311	VV	837	23339	0.41%	0.224%
190	13.334	13.311	13.364	VV	594	14909	0.26%	0.143%
191	13.384	13.364	13.448	VV	501	20536	0.36%	0.198%
192	13.502	13.448	13.521	VV	498	18779	0.33%	0.181%
193	13.552	13.521	13.603	VV	595	22050	0.39%	0.212%
194	13.660	13.603	13.696	VV	461	21690	0.39%	0.209%

rteres

195	13.721	13.696	13.753	VV	598	16616	0.30%	0.160%
196	13.765	13.753	13.772	VV	473	4664	0.08%	0.045%
197	13.813	13.772	13.840	VV	1114	25834	0.46%	0.248%
198	13.865	13.840	13.911	VV	1873	36271	0.64%	0.349%
199	13.927	13.911	13.944	VV	554	9368	0.17%	0.090%
200	13.956	13.944	14.041	VV	485	21880	0.39%	0.210%
201	14.081	14.059	14.114	VV	541	14371	0.26%	0.138%
202	14.143	14.114	14.185	VV	468	18027	0.32%	0.173%
203	14.198	14.185	14.209	VV	487	6180	0.11%	0.059%
204	14.226	14.209	14.261	VV	455	13325	0.24%	0.128%
205	14.302	14.261	14.336	VV	2294	43975	0.78%	0.423%
206	14.346	14.336	14.357	VV	512	6125	0.11%	0.059%
207	14.387	14.357	14.403	VV	590	13292	0.24%	0.128%
208	14.428	14.403	14.472	VV	980	24862	0.44%	0.239%
209	14.493	14.472	14.537	VV	561	18739	0.33%	0.180%
210	14.558	14.537	14.575	VV	517	10780	0.19%	0.104%
211	14.580	14.575	14.611	VV	485	9447	0.17%	0.091%
212	14.633	14.611	14.673	VV	486	16535	0.29%	0.159%
213	14.692	14.673	14.731	VV	536	16604	0.30%	0.160%
214	14.743	14.731	14.777	VV	518	12398	0.22%	0.119%
215	14.787	14.777	14.799	VV	453	5921	0.11%	0.057%
216	14.823	14.799	14.859	VV	424	13400	0.24%	0.129%
217	14.927	14.859	14.945	VV	836	25257	0.45%	0.243%
218	14.970	14.945	15.008	VV	1745	32156	0.57%	0.309%
219	15.028	15.008	15.051	VV	417	9598	0.17%	0.092%
220	15.055	15.051	15.121	VV	349	11385	0.20%	0.110%
221	15.143	15.121	15.165	VV	428	8599	0.15%	0.083%
222	15.172	15.165	15.188	VV	380	4835	0.09%	0.047%
223	15.194	15.188	15.203	VV	329	2827	0.05%	0.027%
224	15.222	15.203	15.265	VV	426	11663	0.21%	0.112%
225	15.292	15.265	15.304	VV	352	6363	0.11%	0.061%
226	15.320	15.304	15.341	VV	305	5452	0.10%	0.052%
227	15.363	15.341	15.368	VV	311	4049	0.07%	0.039%
228	15.398	15.368	15.425	VV	424	11105	0.20%	0.107%
229	15.494	15.425	15.519	VV	825	24283	0.43%	0.234%
230	15.545	15.519	15.618	VV	356	15383	0.27%	0.148%
231	15.628	15.618	15.635	VV	226	1905	0.03%	0.018%
232	15.681	15.635	15.707	VV	389	12623	0.22%	0.121%
233	15.721	15.707	15.744	VV	344	5735	0.10%	0.055%
234	15.768	15.744	15.791	VV	377	7944	0.14%	0.076%
235	15.812	15.791	15.842	VV	343	8936	0.16%	0.086%
236	15.852	15.842	15.882	VV	328	6476	0.12%	0.062%
237	15.888	15.882	15.898	VV	272	2288	0.04%	0.022%
238	15.923	15.898	15.935	VV	339	6538	0.12%	0.063%
239	15.957	15.935	15.971	VV	594	9480	0.17%	0.091%
240	15.994	15.971	16.021	VV	1256	20142	0.36%	0.194%
241	16.034	16.021	16.091	VV	300	7524	0.13%	0.072%
242	16.098	16.091	16.115	VV	205	2498	0.04%	0.024%
243	16.126	16.115	16.148	VV	237	3772	0.07%	0.036%
244	16.170	16.148	16.191	VV	310	5416	0.10%	0.052%
245	16.221	16.191	16.265	VV	215	6217	0.11%	0.060%
246	16.334	16.265	16.357	VV	237	7054	0.13%	0.068%

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247	16.368	16.357	16.375	VV	212	1861	0.03%	0.018%
248	16.392	16.375	16.401	VV	235	3022	0.05%	0.029%
249	16.410	16.401	16.429	VV	238	2631	0.05%	0.025%
250	16.480	16.429	16.571	VV	802	22821	0.41%	0.220%
251	16.588	16.571	16.607	VV	133	2615	0.05%	0.025%
252	16.650	16.607	16.663	VV	373	8069	0.14%	0.078%
253	16.671	16.663	16.718	VV	323	6190	0.11%	0.060%
254	16.756	16.718	16.772	VV	241	5121	0.09%	0.049%
255	16.781	16.772	16.802	VV	183	2707	0.05%	0.026%
256	16.820	16.802	16.829	VV	200	2340	0.04%	0.023%
257	16.835	16.829	16.893	VV	184	5620	0.10%	0.054%
258	16.915	16.893	16.928	VV	487	6772	0.12%	0.065%
259	16.947	16.928	16.988	VV	1453	21698	0.39%	0.209%
260	16.994	16.988	17.027	VV	153	2007	0.04%	0.019%
261	17.038	17.027	17.058	VV	93	1182	0.02%	0.011%
262	17.067	17.058	17.087	PV	98	1209	0.02%	0.012%
263	17.123	17.087	17.143	VV	168	3024	0.05%	0.029%
264	17.154	17.143	17.201	VV	146	2356	0.04%	0.023%
265	17.221	17.201	17.232	VV	152	1600	0.03%	0.015%
266	17.245	17.232	17.261	VV	139	1275	0.02%	0.012%
267	17.276	17.261	17.305	VV	109	1840	0.03%	0.018%
268	17.329	17.305	17.371	PV	141	3823	0.07%	0.037%
269	17.398	17.371	17.451	VV	1850	28019	0.50%	0.270%
270	17.454	17.451	17.468	VV	136	646	0.01%	0.006%
271	17.501	17.468	17.515	PV	160	3230	0.06%	0.031%
272	17.522	17.515	17.539	VV	234	2237	0.04%	0.022%
273	17.549	17.539	17.554	VV	123	1051	0.02%	0.010%
274	17.562	17.554	17.632	VV	142	3249	0.06%	0.031%
275	17.672	17.632	17.697	VV	134	2733	0.05%	0.026%
276	17.706	17.697	17.751	PV	88	1155	0.02%	0.011%
277	17.837	17.751	17.868	VV	2104	34943	0.62%	0.336%
278	17.888	17.868	17.933	VV	156	3400	0.06%	0.033%
279	17.986	17.933	18.001	PV	272	6195	0.11%	0.060%
280	18.022	18.001	18.044	VV	775	11187	0.20%	0.108%
281	18.061	18.044	18.088	VV	471	6642	0.12%	0.064%
282	18.111	18.088	18.142	VV	211	3594	0.06%	0.035%
283	18.164	18.142	18.175	VV	191	2336	0.04%	0.022%
284	18.191	18.175	18.230	VV	305	5968	0.11%	0.057%
285	18.260	18.230	18.346	PV	2382	36189	0.64%	0.348%
286	18.358	18.346	18.378	VV	126	1516	0.03%	0.015%
287	18.414	18.378	18.443	VV	125	2813	0.05%	0.027%
288	18.452	18.443	18.485	PV	113	2358	0.04%	0.023%
289	18.525	18.485	18.561	VV	298	9600	0.17%	0.092%
290	18.608	18.561	18.625	VV	218	5867	0.10%	0.056%
291	18.672	18.625	18.727	VV	2511	41847	0.74%	0.403%
292	18.762	18.727	18.804	VV	4750	66530	1.18%	0.640%
293	18.830	18.804	18.862	VV	374	6255	0.11%	0.060%
294	18.931	18.862	18.953	PV	258	6252	0.11%	0.060%
295	19.001	18.953	19.026	VV	280	7652	0.14%	0.074%
296	19.070	19.026	19.111	VV	1686	31338	0.56%	0.301%
297	19.119	19.111	19.124	VV	208	1675	0.03%	0.016%
298	19.132	19.124	19.137	VV	220	1607	0.03%	0.015%
299	19.148	19.137	19.157	VV	235	2514	0.04%	0.024%

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300	19.195	19.157	19.205	VV	299	7306	0.13%	0.070%
301	19.216	19.205	19.224	VV	257	2697	0.05%	0.026%
302	19.241	19.224	19.258	VV	344	5700	0.10%	0.055%
303	19.271	19.258	19.291	VV	282	5023	0.09%	0.048%
304	19.323	19.291	19.341	VV	352	8084	0.14%	0.078%
305	19.376	19.341	19.411	VV	374	13040	0.23%	0.125%
306	19.458	19.411	19.501	VV	2266	48041	0.85%	0.462%
307	19.514	19.501	19.525	VV	380	5250	0.09%	0.050%
308	19.548	19.525	19.586	VV	402	12601	0.22%	0.121%
309	19.755	19.586	19.788	VV	696	62189	1.11%	0.598%
310	19.834	19.788	19.905	VV	1513	56862	1.01%	0.547%
311	20.019	19.905	20.045	VV	996	69680	1.24%	0.670%
312	20.113	20.045	20.128	VV	1288	53679	0.95%	0.516%
313	20.139	20.128	20.158	VV	1109	19684	0.35%	0.189%
314	20.199	20.158	20.243	VV	3137	91581	1.63%	0.881%
315	20.256	20.243	20.288	VV	1442	36932	0.66%	0.355%
316	20.308	20.288	20.318	VV	1471	24747	0.44%	0.238%
317	20.424	20.318	20.443	VV	1609	108399	1.93%	1.043%
318	20.506	20.443	20.538	VV	1820	95597	1.70%	0.920%
319	20.566	20.538	20.609	VV	1972	71013	1.26%	0.683%
320	20.616	20.609	20.632	VV	1464	19949	0.35%	0.192%
321	20.649	20.632	20.676	VV	1489	37969	0.67%	0.365%
322	20.764	20.676	20.795	VV	1714	108839	1.93%	1.047%
323	20.812	20.795	20.829	VV	1467	30170	0.54%	0.290%
324	20.855	20.829	20.866	VV	1540	31581	0.56%	0.304%
325	20.877	20.866	20.918	VV	1471	43960	0.78%	0.423%
326	20.968	20.918	21.015	VV	3792	121895	2.17%	1.172%
327	21.030	21.015	21.098	VV	1263	60364	1.07%	0.581%
328	21.104	21.098	21.128	VV	1202	20786	0.37%	0.200%
329	21.139	21.128	21.148	VV	1216	13812	0.25%	0.133%
330	21.156	21.148	21.182	VV	1202	23454	0.42%	0.226%
331	21.197	21.182	21.215	VV	1160	22147	0.39%	0.213%
332	21.225	21.215	21.255	VV	1102	25067	0.45%	0.241%
333	21.308	21.255	21.318	VV	1059	38360	0.68%	0.369%
334	21.338	21.318	21.364	VV	1059	28321	0.50%	0.272%
335	21.377	21.364	21.391	VV	1069	16229	0.29%	0.156%
336	21.420	21.391	21.478	VV	1128	51989	0.92%	0.500%
337	21.489	21.478	21.505	VV	924	14217	0.25%	0.137%
338	21.513	21.505	21.548	VV	877	20610	0.37%	0.198%
339	21.555	21.548	21.562	VV	762	6329	0.11%	0.061%
340	21.653	21.562	21.681	VV	856	55979	0.99%	0.538%
341	21.701	21.681	21.728	VV	774	19727	0.35%	0.190%
342	21.739	21.728	21.748	VV	713	8070	0.14%	0.078%
343	21.751	21.748	21.770	VV	707	8726	0.16%	0.084%
344	21.792	21.770	21.865	VV	725	34072	0.61%	0.328%
345	21.937	21.865	22.026	VV	3610	120889	2.15%	1.163%
346	22.036	22.026	22.071	VV	420	9978	0.18%	0.096%
347	22.160	22.071	22.175	VV	333	19050	0.34%	0.183%
348	22.214	22.175	22.273	VV	308	14235	0.25%	0.137%
349	22.289	22.273	22.366	VV	263	8932	0.16%	0.086%

Sum of corrected areas: 10396252

rteres
Aliphatic EPH 052425.M Tue Jun 10 06:24:31 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD061025AR\
Data File : FD049425.D
Signal(s) : FID2B.ch
Acq On : 10 Jun 2025 11:50
Operator : YP/AJ
Sample : Q2198-05
Misc :
ALS Vial : 61 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
B-202-GW01

Integration File: autoint1.e
Quant Time: Jun 11 01:07:20 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 052425.M
Quant Title : GC Extractables
QLast Update : Tue May 27 03:11:40 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) S 2-Bromonaphthalene (S...	7.732	6191325	37.245 ug/ml
Spiked Amount 50.000		Recovery =	74.49%
6) S 2-Flurobiphenyl (SURR)	8.598	4035092	35.273 ug/ml
Spiked Amount 50.000	Range 0 - 131	Recovery =	70.55%
11) S ortho-Terphenyl (SURR)	11.642	4467631	22.258 ug/ml
Spiked Amount 50.000		Recovery =	44.52%
Target Compounds			

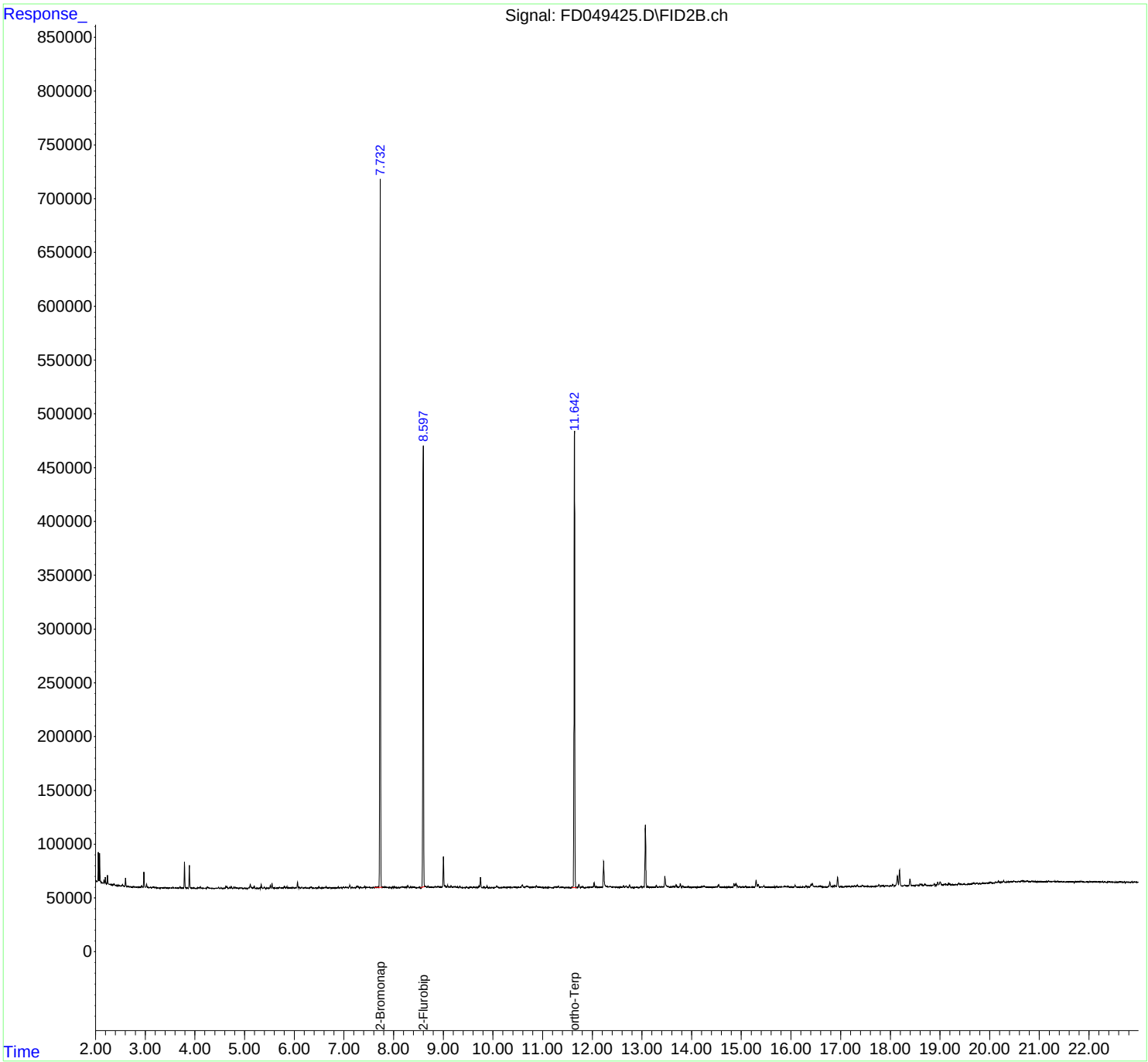
(f)=RT Delta > 1/2 Window (m)=manual int.

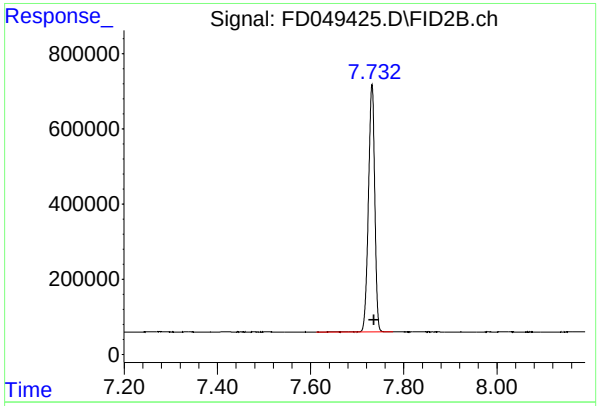
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD061025AR\
Data File : FD049425.D
Signal(s) : FID2B.ch
Acq On : 10 Jun 2025 11:50
Operator : YP/AJ
Sample : Q2198-05
Misc :
ALS Vial : 61 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
B-202-GW01

Integration File: autoint1.e
Quant Time: Jun 11 01:07:20 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 052425.M
Quant Title : GC Extractables
QLast Update : Tue May 27 03:11:40 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

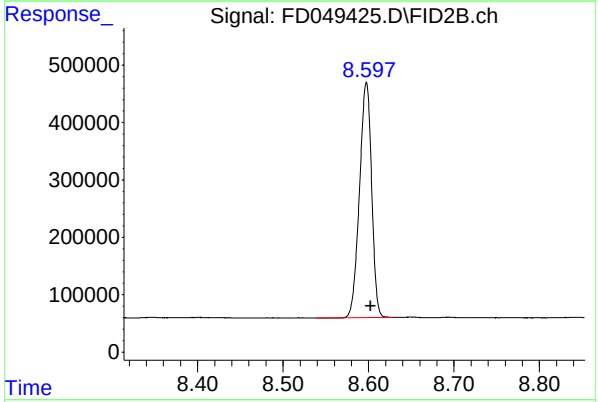




#4 2-Bromonaphthalene (SURR)

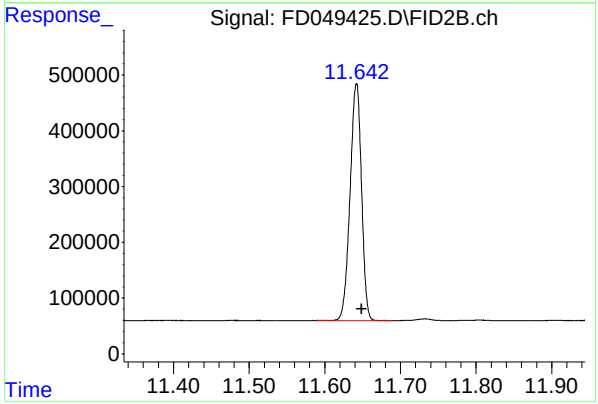
R.T.: 7.732 min
Delta R.T.: -0.005 min
Response: 6191325
Conc: 37.24 ug/ml

Instrument :
FID_D
ClientSampleId :
B-202-GW01



#6 2-Flurobiphenyl (SURR)

R.T.: 8.598 min
Delta R.T.: -0.005 min
Response: 4035092
Conc: 35.27 ug/ml



#11 ortho-Terphenyl (SURR)

R.T.: 11.642 min
Delta R.T.: -0.006 min
Response: 4467631
Conc: 22.26 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD061025AR\
Data File : FD049425.D
Signal(s) : FID2B.ch
Acq On : 10 Jun 2025 11:50
Sample : Q2198-05
Misc :
ALS Vial : 61 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 052425.M
Title : GC Extractables

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.321	4.302	4.332	PV	253	2384	0.04%	0.010%
2	4.346	4.332	4.362	VV	89	1731	0.03%	0.007%
3	4.370	4.362	4.391	VV	328	3156	0.05%	0.013%
4	4.402	4.391	4.407	PV	265	1316	0.02%	0.006%
5	4.421	4.407	4.444	VV	454	6217	0.10%	0.027%
6	4.448	4.444	4.455	VV	332	1892	0.03%	0.008%
7	4.478	4.455	4.503	VV	1346	15754	0.25%	0.067%
8	4.524	4.503	4.549	VV	849	9863	0.16%	0.042%
9	4.561	4.549	4.575	VV	256	3369	0.05%	0.014%
10	4.591	4.575	4.609	VV	444	5541	0.09%	0.024%
11	4.624	4.609	4.639	VV	2306	22612	0.36%	0.096%
12	4.647	4.639	4.668	VV	1535	15555	0.25%	0.066%
13	4.682	4.668	4.688	VV	385	3454	0.06%	0.015%
14	4.704	4.688	4.719	VV	1367	13421	0.22%	0.057%
15	4.733	4.719	4.758	VV	2187	21476	0.34%	0.092%
16	4.763	4.758	4.770	VV	343	1715	0.03%	0.007%
17	4.785	4.770	4.801	VV	1818	15712	0.25%	0.067%
18	4.815	4.801	4.842	VV	1429	17434	0.28%	0.074%
19	4.860	4.842	4.881	VV	795	9872	0.16%	0.042%
20	4.899	4.881	4.913	PV	468	5986	0.10%	0.026%
21	4.931	4.913	4.948	VV	997	12632	0.20%	0.054%
22	4.952	4.948	4.963	VV	166	1292	0.02%	0.006%
23	4.968	4.963	4.975	VV	294	1085	0.02%	0.005%
24	5.009	4.975	5.025	VV	656	9264	0.15%	0.040%
25	5.029	5.025	5.033	VV	332	1360	0.02%	0.006%
26	5.037	5.033	5.064	VV	344	4611	0.07%	0.020%
27	5.089	5.064	5.098	VV	1194	12945	0.21%	0.055%
28	5.116	5.098	5.157	VV	4008	59505	0.96%	0.254%
29	5.172	5.157	5.183	VV	1044	11542	0.19%	0.049%
30	5.197	5.183	5.215	VV	2409	23331	0.37%	0.100%
31	5.219	5.215	5.234	VV	382	3224	0.05%	0.014%
32	5.240	5.234	5.269	VV	407	5457	0.09%	0.023%
33	5.303	5.269	5.316	VV	491	7769	0.12%	0.033%
34	5.335	5.316	5.369	VV	3912	42873	0.69%	0.183%
35	5.394	5.369	5.425	VV	1127	18753	0.30%	0.080%
36	5.474	5.425	5.492	VV	768	15063	0.24%	0.064%

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37	5.519	5.492	5.534	VV	2968	32732	0.53%	0.140%
38	5.553	5.534	5.582	VV	4770	51634	0.83%	0.220%
39	5.613	5.582	5.635	VV	729	14413	0.23%	0.062%
40	5.643	5.635	5.653	VV	432	3570	0.06%	0.015%
41	5.681	5.653	5.687	VV	580	9292	0.15%	0.040%
42	5.705	5.687	5.722	VV	1333	17153	0.28%	0.073%
43	5.729	5.722	5.744	VV	639	7133	0.11%	0.030%
44	5.755	5.744	5.773	VV	749	10522	0.17%	0.045%
45	5.802	5.773	5.835	VV	1830	36053	0.58%	0.154%
46	5.853	5.835	5.874	VV	1965	22388	0.36%	0.096%
47	5.890	5.874	5.905	VV	820	8790	0.14%	0.038%
48	5.923	5.905	5.935	VV	686	9167	0.15%	0.039%
49	5.940	5.935	5.953	VV	558	5627	0.09%	0.024%
50	5.972	5.953	5.989	VV	1118	15422	0.25%	0.066%
51	5.994	5.989	5.997	VV	395	1612	0.03%	0.007%
52	6.010	5.997	6.017	VV	643	6377	0.10%	0.027%
53	6.029	6.017	6.048	VV	834	11786	0.19%	0.050%
54	6.067	6.048	6.087	VV	6032	62843	1.01%	0.268%
55	6.098	6.087	6.123	VV	1050	15931	0.26%	0.068%
56	6.129	6.123	6.134	VV	523	2689	0.04%	0.011%
57	6.154	6.134	6.177	VV	1287	18378	0.29%	0.078%
58	6.198	6.177	6.205	VV	652	8899	0.14%	0.038%
59	6.217	6.205	6.251	VV	780	16408	0.26%	0.070%
60	6.258	6.251	6.264	VV	505	3152	0.05%	0.013%
61	6.267	6.264	6.277	VV	565	3727	0.06%	0.016%
62	6.294	6.277	6.304	VV	604	7842	0.13%	0.033%
63	6.320	6.304	6.326	VV	1146	10559	0.17%	0.045%
64	6.329	6.326	6.332	VV	975	3776	0.06%	0.016%
65	6.342	6.332	6.383	VV	1224	19379	0.31%	0.083%
66	6.389	6.383	6.400	VV	366	2799	0.04%	0.012%
67	6.421	6.400	6.443	VV	885	12932	0.21%	0.055%
68	6.449	6.443	6.460	VV	536	4220	0.07%	0.018%
69	6.463	6.460	6.474	VV	520	2874	0.05%	0.012%
70	6.496	6.474	6.532	VV	2049	31392	0.50%	0.134%
71	6.538	6.532	6.548	VV	598	4610	0.07%	0.020%
72	6.559	6.548	6.565	VV	605	5182	0.08%	0.022%
73	6.579	6.565	6.602	VV	779	13116	0.21%	0.056%
74	6.614	6.602	6.628	VV	998	11942	0.19%	0.051%
75	6.644	6.628	6.662	VV	1542	20138	0.32%	0.086%
76	6.674	6.662	6.702	VV	556	11411	0.18%	0.049%
77	6.718	6.702	6.742	VV	969	13675	0.22%	0.058%
78	6.773	6.742	6.788	VV	630	12888	0.21%	0.055%
79	6.794	6.788	6.807	VV	571	5658	0.09%	0.024%
80	6.813	6.807	6.827	VV	667	6273	0.10%	0.027%
81	6.832	6.827	6.839	VV	592	3562	0.06%	0.015%
82	6.885	6.839	6.912	VV	1541	31469	0.51%	0.134%
83	6.936	6.912	6.964	VV	1045	22249	0.36%	0.095%
84	6.969	6.964	6.972	VV	550	2402	0.04%	0.010%
85	6.989	6.972	7.016	VV	1269	24186	0.39%	0.103%
86	7.032	7.016	7.044	VV	1083	13727	0.22%	0.059%
87	7.051	7.044	7.070	VV	974	13710	0.22%	0.059%
88	7.077	7.070	7.091	VV	942	8905	0.14%	0.038%
89	7.120	7.091	7.145	VV	2784	44152	0.71%	0.188%

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90	7.172	7.145	7.177	VV	694	11848	0.19%	0.051%
91	7.183	7.177	7.188	VV	734	4791	0.08%	0.020%
92	7.198	7.188	7.217	VV	882	12869	0.21%	0.055%
93	7.225	7.217	7.236	VV	791	8071	0.13%	0.034%
94	7.258	7.236	7.263	VV	1697	19050	0.31%	0.081%
95	7.277	7.263	7.318	VV	1861	39563	0.64%	0.169%
96	7.337	7.318	7.352	VV	1145	18477	0.30%	0.079%
97	7.358	7.352	7.373	VV	861	9417	0.15%	0.040%
98	7.385	7.373	7.401	VV	865	12461	0.20%	0.053%
99	7.417	7.401	7.435	VV	1658	23473	0.38%	0.100%
100	7.451	7.435	7.463	VV	978	13828	0.22%	0.059%
101	7.479	7.463	7.491	VV	994	14142	0.23%	0.060%
102	7.506	7.491	7.529	VV	1130	19379	0.31%	0.083%
103	7.534	7.529	7.547	VV	657	6827	0.11%	0.029%
104	7.568	7.547	7.572	VV	805	10949	0.18%	0.047%
105	7.580	7.572	7.585	VV	769	5882	0.09%	0.025%
106	7.589	7.585	7.602	VV	797	7221	0.12%	0.031%
107	7.617	7.602	7.622	VV	806	8679	0.14%	0.037%
108	7.626	7.622	7.630	VV	838	3532	0.06%	0.015%
109	7.647	7.630	7.662	VV	1321	20061	0.32%	0.086%
110	7.678	7.662	7.694	VV	1285	20068	0.32%	0.086%
111	7.732	7.694	7.787	VV	658947	6230066	100.00%	26.586%
112	7.791	7.787	7.808	VV	1118	12911	0.21%	0.055%
113	7.828	7.808	7.858	VV	1472	32650	0.52%	0.139%
114	7.862	7.858	7.892	VV	952	16269	0.26%	0.069%
115	7.897	7.892	7.918	VV	765	10007	0.16%	0.043%
116	7.923	7.918	7.930	VV	1257	4852	0.08%	0.021%
117	7.939	7.930	7.949	VV	743	6680	0.11%	0.029%
118	7.956	7.949	7.962	VV	618	4215	0.07%	0.018%
119	7.964	7.962	7.967	VV	619	1775	0.03%	0.008%
120	7.983	7.967	7.995	VV	1101	13203	0.21%	0.056%
121	8.012	7.995	8.040	VV	1331	26393	0.42%	0.113%
122	8.051	8.040	8.058	VV	749	7339	0.12%	0.031%
123	8.074	8.058	8.083	VV	896	11074	0.18%	0.047%
124	8.097	8.083	8.110	VV	720	10312	0.17%	0.044%
125	8.114	8.110	8.131	VV	659	8016	0.13%	0.034%
126	8.138	8.131	8.140	VV	755	3197	0.05%	0.014%
127	8.184	8.140	8.209	VV	1481	44880	0.72%	0.192%
128	8.212	8.209	8.238	VV	899	15742	0.25%	0.067%
129	8.251	8.238	8.255	VV	929	8648	0.14%	0.037%
130	8.287	8.255	8.328	VV	2762	58437	0.94%	0.249%
131	8.348	8.328	8.363	VV	1614	24131	0.39%	0.103%
132	8.401	8.363	8.414	VV	1459	36070	0.58%	0.154%
133	8.425	8.414	8.466	VV	1050	24287	0.39%	0.104%
134	8.481	8.466	8.509	VV	854	17551	0.28%	0.075%
135	8.519	8.509	8.559	VV	869	18371	0.29%	0.078%
136	8.598	8.559	8.629	VV	410505	4084864	65.57%	17.431%
137	8.633	8.629	8.639	VV	1617	9478	0.15%	0.040%
138	8.649	8.639	8.677	VV	2089	33662	0.54%	0.144%
139	8.694	8.677	8.717	VV	1862	32378	0.52%	0.138%
140	8.720	8.717	8.729	VV	1106	7511	0.12%	0.032%
141	8.739	8.729	8.754	VV	1113	14412	0.23%	0.062%

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142	8.768	8.754	8.785	VV	1173	18636	0.30%	0.080%
143	8.789	8.785	8.794	VV	907	4226	0.07%	0.018%
144	8.798	8.794	8.809	VV	927	7727	0.12%	0.033%
145	8.844	8.809	8.870	VV	1648	45312	0.73%	0.193%
146	8.893	8.870	8.922	VV	1474	40644	0.65%	0.173%
147	8.937	8.922	8.954	VV	1296	22659	0.36%	0.097%
148	8.967	8.954	8.981	VV	1339	20018	0.32%	0.085%
149	9.005	8.981	9.024	VV	29278	300093	4.82%	1.281%
150	9.034	9.024	9.072	VV	2657	46369	0.74%	0.198%
151	9.089	9.072	9.112	VV	2846	42008	0.67%	0.179%
152	9.124	9.112	9.144	VV	1361	23112	0.37%	0.099%
153	9.160	9.144	9.180	VV	2377	32768	0.53%	0.140%
154	9.198	9.180	9.227	VV	1581	36139	0.58%	0.154%
155	9.245	9.227	9.254	VV	1378	20194	0.32%	0.086%
156	9.282	9.254	9.311	VV	1291	36386	0.58%	0.155%
157	9.335	9.311	9.371	VV	1372	31383	0.50%	0.134%
158	9.391	9.371	9.425	VV	740	18332	0.29%	0.078%
159	9.435	9.425	9.447	VV	569	6893	0.11%	0.029%
160	9.477	9.447	9.509	VV	1531	26668	0.43%	0.114%
161	9.551	9.509	9.565	VV	833	21663	0.35%	0.092%
162	9.572	9.565	9.589	VV	857	9986	0.16%	0.043%
163	9.613	9.589	9.629	VV	1079	19858	0.32%	0.085%
164	9.633	9.629	9.646	VV	956	8356	0.13%	0.036%
165	9.661	9.646	9.687	VV	926	17096	0.27%	0.073%
166	9.722	9.687	9.734	VV	2256	34444	0.55%	0.147%
167	9.752	9.734	9.779	VV	10098	109240	1.75%	0.466%
168	9.818	9.779	9.860	VV	935	30018	0.48%	0.128%
169	9.882	9.860	9.916	VV	1594	27898	0.45%	0.119%
170	9.929	9.916	9.946	VV	643	9451	0.15%	0.040%
171	9.954	9.946	10.011	VV	514	18321	0.29%	0.078%
172	10.019	10.011	10.028	VV	497	4679	0.08%	0.020%
173	10.078	10.028	10.134	VV	2150	54176	0.87%	0.231%
174	10.140	10.134	10.151	VV	491	4198	0.07%	0.018%
175	10.161	10.151	10.184	VV	499	7725	0.12%	0.033%
176	10.221	10.184	10.239	VV	790	20986	0.34%	0.090%
177	10.247	10.239	10.255	VV	631	5443	0.09%	0.023%
178	10.271	10.255	10.300	VV	639	16377	0.26%	0.070%
179	10.318	10.300	10.360	VV	836	24671	0.40%	0.105%
180	10.367	10.360	10.380	VV	655	6798	0.11%	0.029%
181	10.408	10.380	10.420	VV	1049	19317	0.31%	0.082%
182	10.432	10.420	10.454	VV	1206	19846	0.32%	0.085%
183	10.468	10.454	10.484	VV	847	12538	0.20%	0.054%
184	10.508	10.484	10.537	VV	978	23925	0.38%	0.102%
185	10.591	10.537	10.628	VV	3024	74900	1.20%	0.320%
186	10.674	10.628	10.743	VV	1611	77011	1.24%	0.329%
187	10.753	10.743	10.782	VV	803	14705	0.24%	0.063%
188	10.808	10.782	10.827	VV	1131	23022	0.37%	0.098%
189	10.836	10.827	10.857	VV	1122	18462	0.30%	0.079%
190	10.874	10.857	10.925	VV	2220	50310	0.81%	0.215%
191	10.944	10.925	10.970	VV	924	19553	0.31%	0.083%
192	10.988	10.970	11.024	VV	856	19123	0.31%	0.082%
193	11.047	11.024	11.090	VV	662	16711	0.27%	0.071%
194	11.129	11.090	11.149	VV	717	17452	0.28%	0.074%

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195	11.155	11.149	11.202	VV	635	14402	0.23%	0.061%
196	11.211	11.202	11.225	VV	437	5568	0.09%	0.024%
197	11.251	11.225	11.269	VV	1358	23505	0.38%	0.100%
198	11.286	11.269	11.305	VV	1293	21318	0.34%	0.091%
199	11.320	11.305	11.344	VV	1644	23803	0.38%	0.102%
200	11.393	11.344	11.455	VV	780	31602	0.51%	0.135%
201	11.478	11.455	11.503	VV	688	13066	0.21%	0.056%
202	11.513	11.503	11.549	VV	597	10989	0.18%	0.047%
203	11.562	11.549	11.580	VV	517	7268	0.12%	0.031%
204	11.642	11.580	11.693	VV	425630	4496436	72.17%	19.188%
205	11.732	11.693	11.762	VV	3481	57203	0.92%	0.244%
206	11.804	11.762	11.840	VV	1280	29062	0.47%	0.124%
207	11.862	11.840	11.872	VV	405	5572	0.09%	0.024%
208	11.909	11.872	11.930	VV	671	16321	0.26%	0.070%
209	11.965	11.930	12.004	VV	851	28491	0.46%	0.122%
210	12.038	12.004	12.060	VV	4894	69667	1.12%	0.297%
211	12.078	12.060	12.102	VV	1745	25298	0.41%	0.108%
212	12.146	12.102	12.157	VV	796	20757	0.33%	0.089%
213	12.228	12.157	12.337	VV	24681	379453	6.09%	1.619%
214	12.361	12.337	12.407	VV	1536	44030	0.71%	0.188%
215	12.415	12.407	12.470	VV	915	28135	0.45%	0.120%
216	12.485	12.470	12.513	VV	917	16613	0.27%	0.071%
217	12.532	12.513	12.544	VV	528	7679	0.12%	0.033%
218	12.566	12.544	12.587	VV	1289	20364	0.33%	0.087%
219	12.596	12.587	12.602	VV	509	4108	0.07%	0.018%
220	12.626	12.602	12.649	VV	1827	30275	0.49%	0.129%
221	12.684	12.649	12.726	VV	1946	44509	0.71%	0.190%
222	12.751	12.726	12.781	VV	2760	38559	0.62%	0.165%
223	12.814	12.781	12.830	VV	494	8978	0.14%	0.038%
224	12.874	12.830	12.884	VV	549	10708	0.17%	0.046%
225	12.898	12.884	12.927	VV	564	9883	0.16%	0.042%
226	12.933	12.927	12.947	VV	427	4115	0.07%	0.018%
227	12.982	12.947	13.007	VV	1588	28980	0.47%	0.124%
228	13.026	13.007	13.040	VV	1060	14795	0.24%	0.063%
229	13.069	13.040	13.100	VV	58569	685391	11.00%	2.925%
230	13.115	13.100	13.162	VV	1078	26751	0.43%	0.114%
231	13.174	13.162	13.198	VV	604	11073	0.18%	0.047%
232	13.206	13.198	13.215	VV	536	4925	0.08%	0.021%
233	13.236	13.215	13.267	VV	829	18991	0.30%	0.081%
234	13.289	13.267	13.313	VV	2268	32862	0.53%	0.140%
235	13.357	13.313	13.385	VV	973	32377	0.52%	0.138%
236	13.404	13.385	13.437	VV	1067	26426	0.42%	0.113%
237	13.461	13.437	13.554	VV	10606	195397	3.14%	0.834%
238	13.563	13.554	13.594	VV	949	19908	0.32%	0.085%
239	13.638	13.594	13.655	VV	1258	35895	0.58%	0.153%
240	13.688	13.655	13.740	VV	2930	64690	1.04%	0.276%
241	13.772	13.740	13.797	VV	3456	56351	0.90%	0.240%
242	13.821	13.797	13.864	VV	1739	36186	0.58%	0.154%
243	13.882	13.864	13.904	VV	649	13146	0.21%	0.056%
244	13.928	13.904	13.965	VV	1336	25678	0.41%	0.110%
245	13.984	13.965	14.005	VV	676	9791	0.16%	0.042%
246	14.058	14.005	14.097	VV	840	30750	0.49%	0.131%

rteres

247	14.102	14.097	14.114	VV	486	4002	0.06%	0.017%
248	14.119	14.114	14.132	VV	425	4176	0.07%	0.018%
249	14.155	14.132	14.168	VV	674	11308	0.18%	0.048%
250	14.178	14.168	14.185	VV	559	4665	0.07%	0.020%
251	14.208	14.185	14.226	VV	1502	24452	0.39%	0.104%
252	14.250	14.226	14.279	VV	1806	36337	0.58%	0.155%
253	14.290	14.279	14.320	VV	848	15608	0.25%	0.067%
254	14.331	14.320	14.362	VV	575	12415	0.20%	0.053%
255	14.377	14.362	14.394	VV	616	10218	0.16%	0.044%
256	14.404	14.394	14.419	VV	594	7656	0.12%	0.033%
257	14.426	14.419	14.451	VV	560	9009	0.14%	0.038%
258	14.476	14.451	14.485	VV	737	11422	0.18%	0.049%
259	14.544	14.485	14.582	VV	2701	66100	1.06%	0.282%
260	14.594	14.582	14.632	VV	596	14295	0.23%	0.061%
261	14.638	14.632	14.654	VV	481	5599	0.09%	0.024%
262	14.663	14.654	14.671	VV	556	4568	0.07%	0.019%
263	14.680	14.671	14.690	VV	510	4531	0.07%	0.019%
264	14.759	14.690	14.799	VV	985	32525	0.52%	0.139%
265	14.851	14.799	14.869	VV	3761	55971	0.90%	0.239%
266	14.891	14.869	14.943	VV	4041	91654	1.47%	0.391%
267	14.964	14.943	14.989	VV	1157	21863	0.35%	0.093%
268	15.011	14.989	15.064	VV	755	26930	0.43%	0.115%
269	15.088	15.064	15.121	VV	1206	25941	0.42%	0.111%
270	15.141	15.121	15.177	VV	604	15089	0.24%	0.064%
271	15.183	15.177	15.202	VV	418	5305	0.09%	0.023%
272	15.216	15.202	15.245	VV	703	13265	0.21%	0.057%
273	15.296	15.245	15.319	VV	6772	99410	1.60%	0.424%
274	15.337	15.319	15.372	VV	2652	48053	0.77%	0.205%
275	15.397	15.372	15.427	VV	613	17455	0.28%	0.074%
276	15.456	15.427	15.483	VV	1509	30249	0.49%	0.129%
277	15.492	15.483	15.501	VV	464	4790	0.08%	0.020%
278	15.517	15.501	15.540	VV	511	9909	0.16%	0.042%
279	15.545	15.540	15.581	VV	511	8607	0.14%	0.037%
280	15.615	15.581	15.625	VV	609	10671	0.17%	0.046%
281	15.630	15.625	15.652	VV	415	6303	0.10%	0.027%
282	15.674	15.652	15.688	VV	637	10919	0.18%	0.047%
283	15.716	15.688	15.745	VV	957	20350	0.33%	0.087%
284	15.768	15.745	15.776	VV	632	9468	0.15%	0.040%
285	15.786	15.776	15.828	VV	694	17185	0.28%	0.073%
286	15.866	15.828	15.886	VV	1233	27248	0.44%	0.116%
287	15.899	15.886	15.920	VV	1016	15930	0.26%	0.068%
288	15.938	15.920	15.992	VV	1247	28425	0.46%	0.121%
289	16.004	15.992	16.027	VV	665	10655	0.17%	0.045%
290	16.033	16.027	16.052	VV	493	6933	0.11%	0.030%
291	16.084	16.052	16.142	VV	1865	46251	0.74%	0.197%
292	16.150	16.142	16.205	VV	430	13900	0.22%	0.059%
293	16.234	16.205	16.267	VV	576	15191	0.24%	0.065%
294	16.307	16.267	16.346	VV	1644	38489	0.62%	0.164%
295	16.401	16.346	16.414	VV	3256	56174	0.90%	0.240%
296	16.431	16.414	16.482	VV	3877	73926	1.19%	0.315%
297	16.502	16.482	16.527	VV	1381	24258	0.39%	0.104%
298	16.557	16.527	16.572	VV	1316	24551	0.39%	0.105%
299	16.597	16.572	16.662	VV	1311	44920	0.72%	0.192%

rteres

300	16.671	16.662	16.715	VV	658	16156	0.26%	0.069%
301	16.781	16.715	16.832	PV	4852	98813	1.59%	0.422%
302	16.850	16.832	16.862	VV	866	15163	0.24%	0.065%
303	16.887	16.862	16.905	VV	1697	29901	0.48%	0.128%
304	16.937	16.905	16.988	VV	9403	141964	2.28%	0.606%
305	17.017	16.988	17.034	VV	535	12077	0.19%	0.052%
306	17.057	17.034	17.072	VV	517	8822	0.14%	0.038%
307	17.124	17.072	17.141	VV	692	19609	0.31%	0.084%
308	17.158	17.141	17.204	VV	764	18920	0.30%	0.081%
309	17.235	17.204	17.259	VV	885	19994	0.32%	0.085%
310	17.278	17.259	17.309	VV	1015	23386	0.38%	0.100%
311	17.334	17.309	17.359	VV	1555	26991	0.43%	0.115%
312	17.365	17.359	17.392	VV	451	7297	0.12%	0.031%
313	17.441	17.392	17.494	VV	1348	39626	0.64%	0.169%
314	17.512	17.494	17.540	VV	520	9936	0.16%	0.042%
315	17.551	17.540	17.559	VV	372	2872	0.05%	0.012%
316	17.566	17.559	17.589	VV	303	3387	0.05%	0.014%
317	17.616	17.589	17.630	VV	196	3755	0.06%	0.016%
318	17.640	17.630	17.675	VV	331	5755	0.09%	0.025%
319	17.702	17.675	17.715	VV	404	4930	0.08%	0.021%
320	17.770	17.715	17.800	VV	1944	34328	0.55%	0.146%
321	17.834	17.800	17.845	VV	729	15899	0.26%	0.068%
322	17.862	17.845	17.889	VV	752	12811	0.21%	0.055%
323	17.923	17.889	17.945	VV	911	19227	0.31%	0.082%
324	17.954	17.945	17.978	VV	724	7425	0.12%	0.032%
325	17.998	17.978	18.021	VV	551	9798	0.16%	0.042%
326	18.053	18.021	18.082	VV	1345	26750	0.43%	0.114%
327	18.142	18.082	18.162	VV	9702	163652	2.63%	0.698%
328	18.184	18.162	18.249	VV	15171	213043	3.42%	0.909%
329	18.287	18.249	18.315	VV	1053	22638	0.36%	0.097%
330	18.322	18.315	18.339	VV	325	3393	0.05%	0.014%
331	18.395	18.339	18.424	VV	6458	92216	1.48%	0.394%
332	18.440	18.424	18.465	VV	680	12491	0.20%	0.053%
333	18.473	18.465	18.490	VV	399	4947	0.08%	0.021%
334	18.537	18.490	18.565	VV	1046	26748	0.43%	0.114%
335	18.601	18.565	18.615	VV	1752	31246	0.50%	0.133%
336	18.627	18.615	18.665	VV	1470	26833	0.43%	0.115%
337	18.693	18.665	18.744	VV	1388	34295	0.55%	0.146%
338	18.755	18.744	18.791	VV	579	7322	0.12%	0.031%
339	18.808	18.791	18.834	PV	360	4232	0.07%	0.018%
340	18.853	18.834	18.862	PV	366	4120	0.07%	0.018%
341	18.887	18.862	18.912	VV	1243	17708	0.28%	0.076%
342	18.952	18.912	18.980	PV	2644	32629	0.52%	0.139%

Sum of corrected areas: 23434010

Aromatic EPH 052425.M Wed Jun 11 01:19:42 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC060925AL\
Data File : FC069134.D
Signal(s) : FID1A.ch
Acq On : 09 Jun 2025 16:17
Operator : YP/AJ
Sample : PB168324BL
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
PB168324BL

Integration File: autoint1.e
Quant Time: Jun 10 05:23:39 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 052425.M
Quant Title : GC Extractables
QLast Update : Tue May 27 01:48:55 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
12) S 1-chlorooctadecane (S...	13.113	2680219	29.875 ug/ml
Spiked Amount 50.000		Recovery = 59.75%	
Target Compounds			

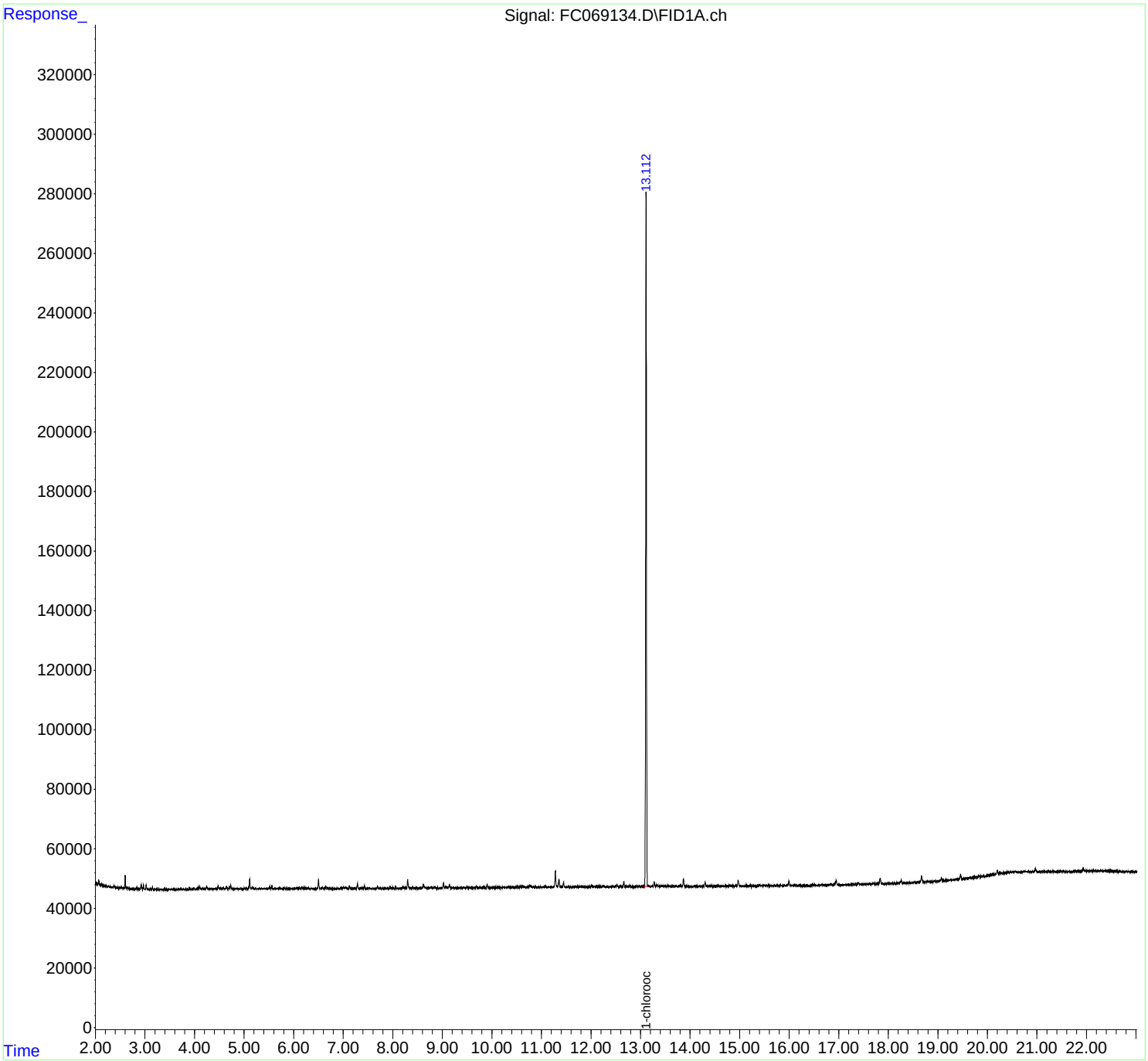
(f)=RT Delta > 1/2 Window (m)=manual int.

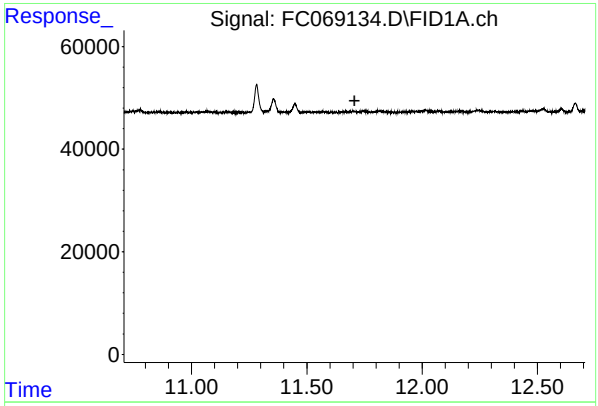
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC060925AL\
Data File : FC069134.D
Signal(s) : FID1A.ch
Acq On : 09 Jun 2025 16:17
Operator : YP/AJ
Sample : PB168324BL
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
PB168324BL

Integration File: autoint1.e
Quant Time: Jun 10 05:23:39 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 052425.M
Quant Title : GC Extractables
QLast Update : Tue May 27 01:48:55 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

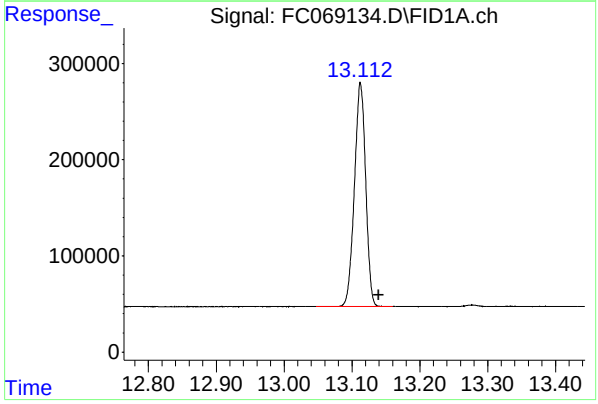




#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.707 min
Response: 0
Conc: N.D.

Instrument :
FID_C
ClientSampleId :
PB168324BL



#12 1-chlorooctadecane (SURR)

R.T.: 13.113 min
Delta R.T.: -0.027 min
Response: 2680219
Conc: 29.88 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC060925AL\
Data File : FC069134.D
Signal(s) : FID1A.ch
Acq On : 09 Jun 2025 16:17
Sample : PB168324BL
Misc :
ALS Vial : 11 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 052425.M
Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	13.113	13.047	13.160	BB	233105	2680219	100.00%	100.000%

Sum of corrected areas: 2680219

Aliphatic EPH 052425.M Tue Jun 10 06:17:51 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD060925AR\
Data File : FD049415.D
Signal(s) : FID2B.ch
Acq On : 09 Jun 2025 16:17
Operator : YP/AJ
Sample : PB168324BL
Misc :
ALS Vial : 61 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
PB168324BL

Integration File: autoint1.e
Quant Time: Jun 10 02:35:05 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 052425.M
Quant Title : GC Extractables
QLast Update : Tue May 27 03:11:40 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) S 2-Bromonaphthalene (S...	7.733	5192860	31.238 ug/ml
Spiked Amount 50.000		Recovery =	62.48%
6) S 2-Flurobiphenyl (SURR)	8.598	3467147	30.308 ug/ml
Spiked Amount 50.000	Range 0 - 131	Recovery =	60.62%
11) S ortho-Terphenyl (SURR)	11.645	5861022	29.200 ug/ml
Spiked Amount 50.000		Recovery =	58.40%
Target Compounds			

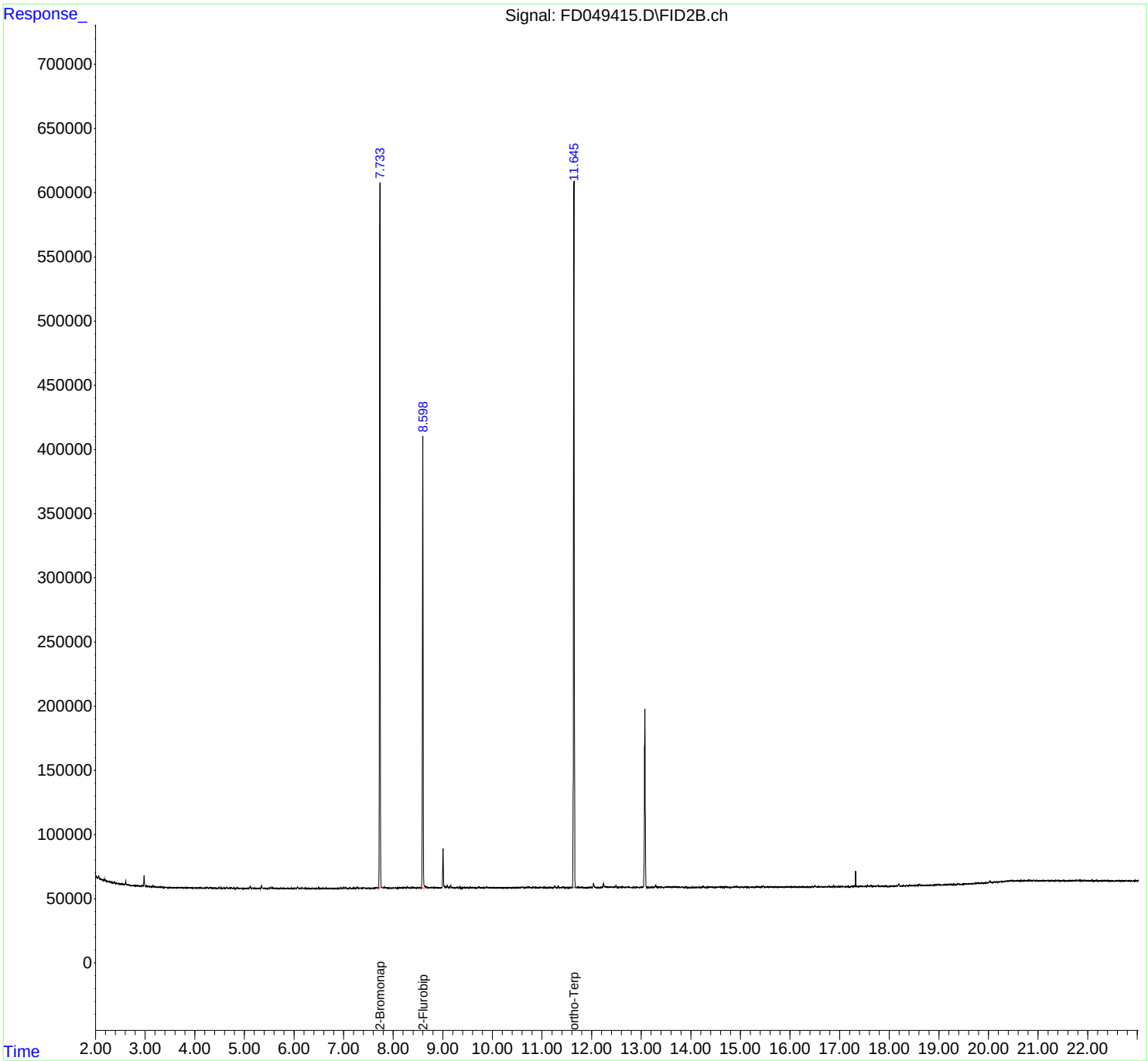
(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD060925AR\
Data File : FD049415.D
Signal(s) : FID2B.ch
Acq On : 09 Jun 2025 16:17
Operator : YP/AJ
Sample : PB168324BL
Misc :
ALS Vial : 61 Sample Multiplier: 1

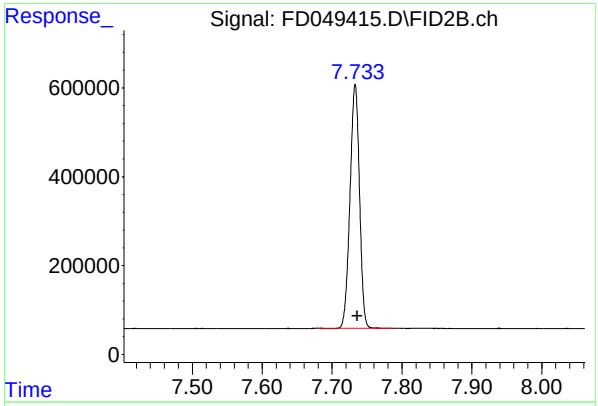
Instrument :
FID_D
ClientSampleId :
PB168324BL

Integration File: autoint1.e
Quant Time: Jun 10 02:35:05 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 052425.M
Quant Title : GC Extractables
QLast Update : Tue May 27 03:11:40 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

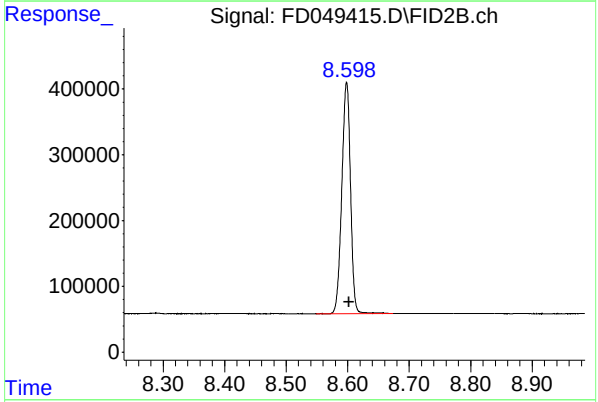


Instrument :
FID_D
ClientSampleId :
PB168324BL



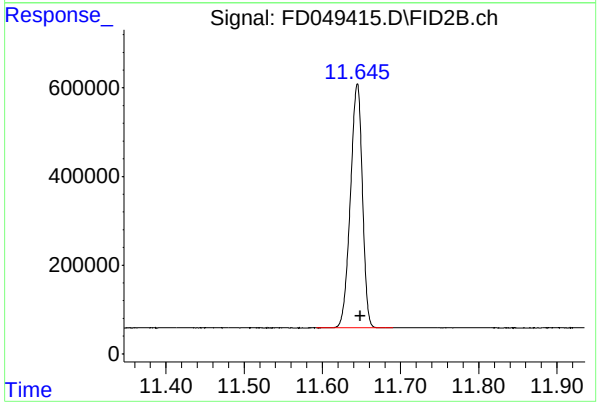
#4 2-Bromonaphthalene (SURR)

R.T.: 7.733 min
Delta R.T.: -0.003 min
Response: 5192860
Conc: 31.24 ug/ml



#6 2-Flurobiphenyl (SURR)

R.T.: 8.598 min
Delta R.T.: -0.004 min
Response: 3467147
Conc: 30.31 ug/ml



#11 ortho-Terphenyl (SURR)

R.T.: 11.645 min
Delta R.T.: -0.004 min
Response: 5861022
Conc: 29.20 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD060925AR\
Data File : FD049415.D
Signal(s) : FID2B.ch
Acq On : 09 Jun 2025 16:17
Sample : PB168324BL
Misc :
ALS Vial : 61 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 052425.M
Title : GC Extractables

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	7.733	7.677	7.787	BB	549290	5192860	88.60%	35.761%
2	8.598	8.549	8.674	BB	351672	3467147	59.16%	23.877%
3	11.645	11.592	11.690	BB	551945	5861022	100.00%	40.362%
			Sum of corrected areas:			14521029		

Aromatic EPH 052425.M Tue Jun 10 02:57:50 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC061125AL\
Data File : FC069157.D
Signal(s) : FID1A.ch
Acq On : 11 Jun 2025 16:33
Operator : YP/AJ
Sample : PB168408BL
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
PB168408BL

Integration File: autoint1.e
Quant Time: Jun 12 06:04:26 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 052425.M
Quant Title : GC Extractables
QLast Update : Tue May 27 01:48:55 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
12) S 1-chlorooctadecane (S...	13.115	2699214	30.087 ug/ml
Spiked Amount 50.000		Recovery = 60.17%	
Target Compounds			

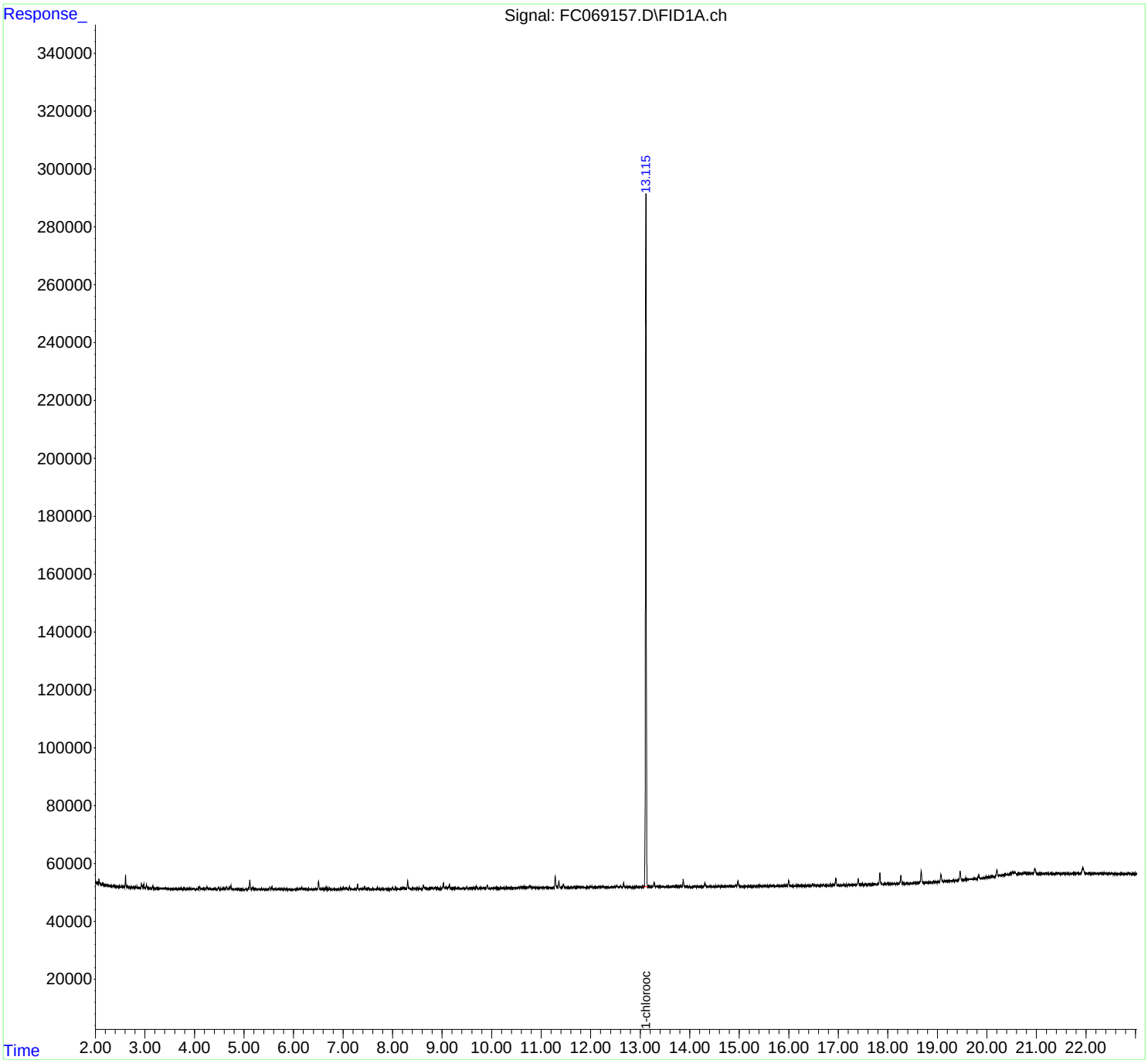
(f)=RT Delta > 1/2 Window (m)=manual int.

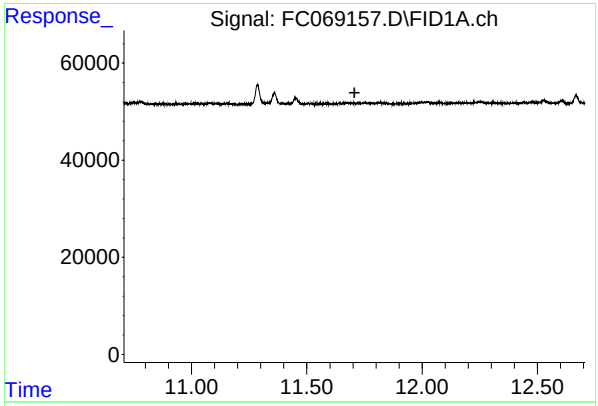
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC061125AL\
Data File : FC069157.D
Signal(s) : FID1A.ch
Acq On : 11 Jun 2025 16:33
Operator : YP/AJ
Sample : PB168408BL
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
PB168408BL

Integration File: autoint1.e
Quant Time: Jun 12 06:04:26 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 052425.M
Quant Title : GC Extractables
QLast Update : Tue May 27 01:48:55 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

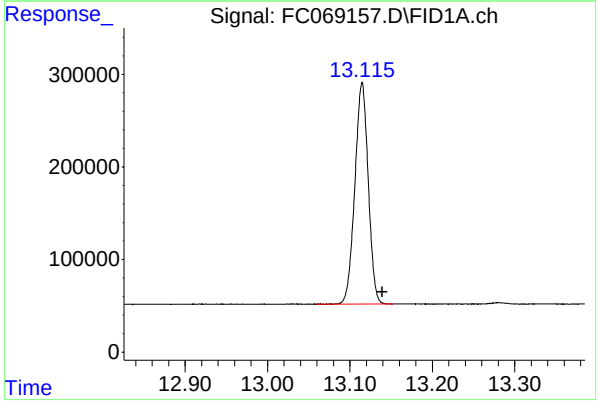




#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.707 min
Response: 0
Conc: N.D.

Instrument :
FID_C
ClientSampleId :
PB168408BL



#12 1-chlorooctadecane (SURR)

R.T.: 13.115 min
Delta R.T.: -0.025 min
Response: 2699214
Conc: 30.09 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC061125AL\
Data File : FC069157.D
Signal(s) : FID1A.ch
Acq On : 11 Jun 2025 16:33
Sample : PB168408BL
Misc :
ALS Vial : 11 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 052425.M
Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	13.115	13.059	13.152	BB	240199	2699214	100.00%	100.000%

Sum of corrected areas: 2699214

Aliphatic EPH 052425.M Thu Jun 12 06:57:13 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD061125AR\
Data File : FD049432.D
Signal(s) : FID2B.ch
Acq On : 11 Jun 2025 16:33
Operator : YP/AJ
Sample : PB168408BL
Misc :
ALS Vial : 61 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
PB168408BL

Integration File: autoint1.e
Quant Time: Jun 12 04:59:12 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 052425.M
Quant Title : GC Extractables
QLast Update : Tue May 27 03:11:40 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) S 2-Bromonaphthalene (S...	7.733	5580932	33.573 ug/ml
Spiked Amount 50.000		Recovery =	67.15%
6) S 2-Flurobiphenyl (SURR)	8.598	3722980	32.544 ug/ml
Spiked Amount 50.000	Range 0 - 131	Recovery =	65.09%
11) S ortho-Terphenyl (SURR)	11.645	6306403	31.419 ug/ml
Spiked Amount 50.000		Recovery =	62.84%
Target Compounds			

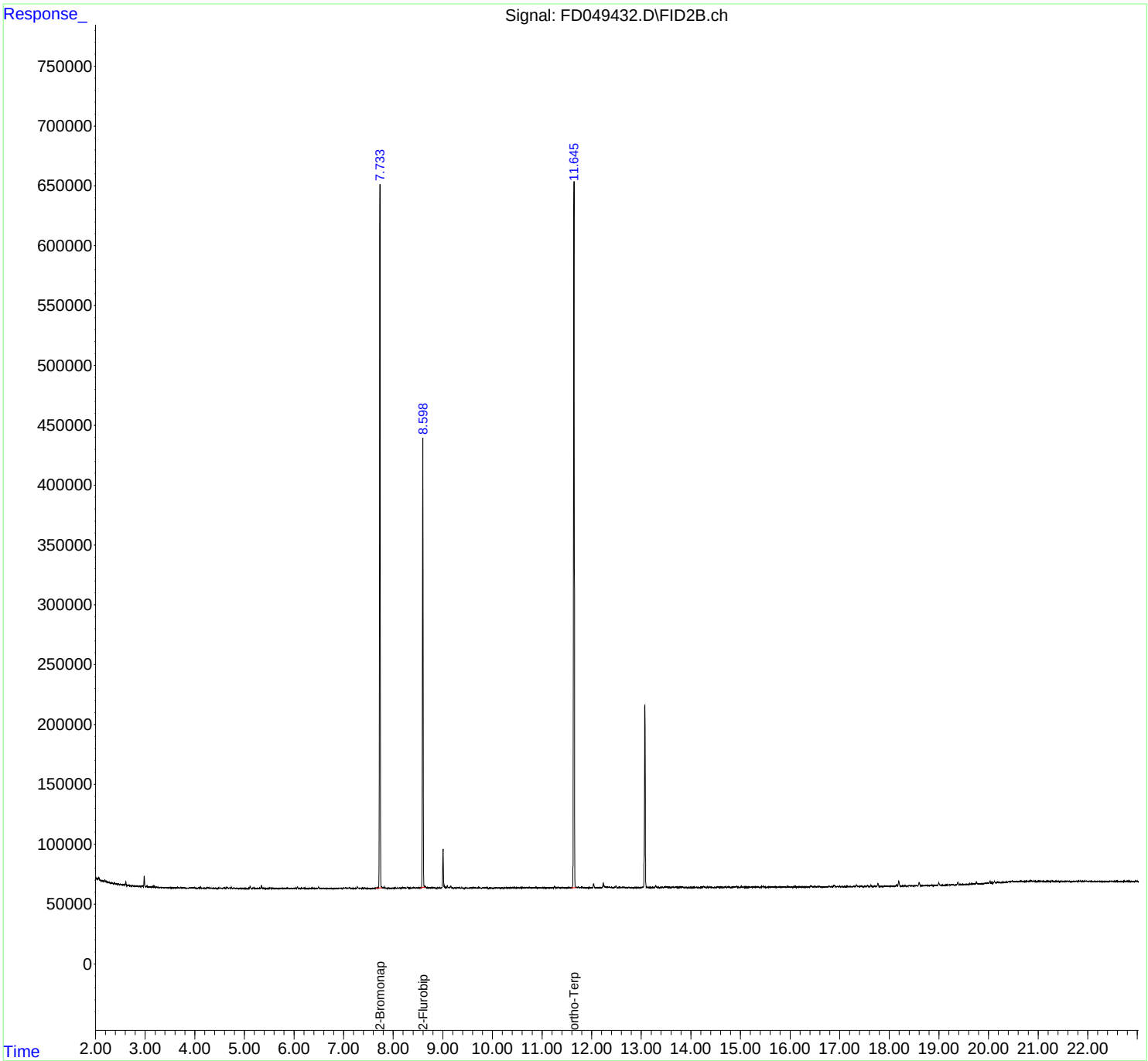
(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD061125AR\
Data File : FD049432.D
Signal(s) : FID2B.ch
Acq On : 11 Jun 2025 16:33
Operator : YP/AJ
Sample : PB168408BL
Misc :
ALS Vial : 61 Sample Multiplier: 1

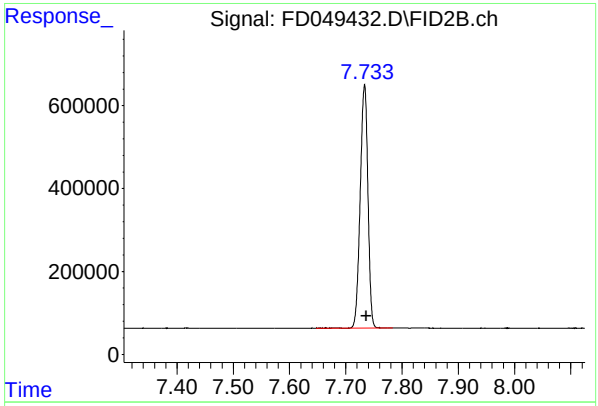
Instrument :
FID_D
ClientSampleId :
PB168408BL

Integration File: autoint1.e
Quant Time: Jun 12 04:59:12 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 052425.M
Quant Title : GC Extractables
QLast Update : Tue May 27 03:11:40 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

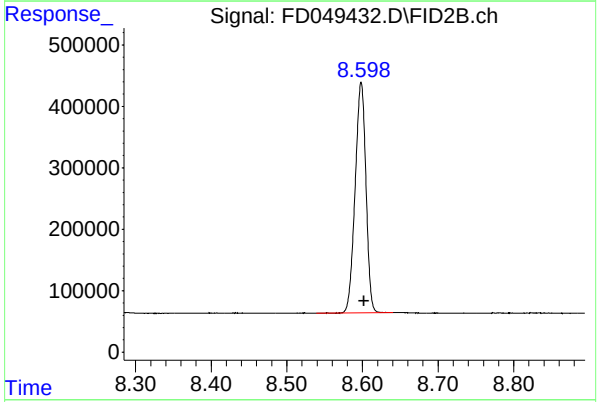


Instrument :
FID_D
ClientSampleId :
PB168408BL



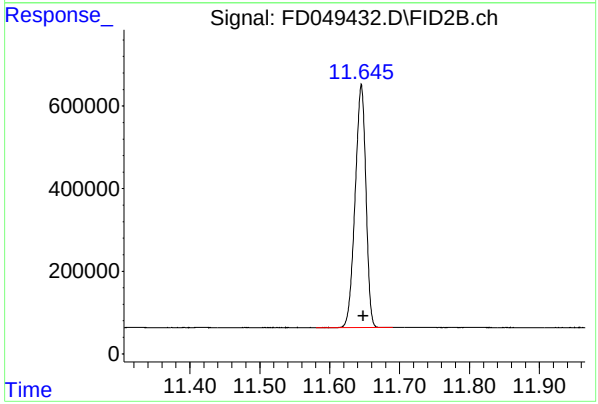
#4 2-Bromonaphthalene (SURR)

R.T.: 7.733 min
Delta R.T.: -0.003 min
Response: 5580932
Conc: 33.57 ug/ml



#6 2-Flurobiphenyl (SURR)

R.T.: 8.598 min
Delta R.T.: -0.004 min
Response: 3722980
Conc: 32.54 ug/ml



#11 ortho-Terphenyl (SURR)

R.T.: 11.645 min
Delta R.T.: -0.003 min
Response: 6306403
Conc: 31.42 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD061225AR\
Data File : FD049432.D
Signal(s) : FID2B.ch
Acq On : 11 Jun 2025 16:33
Sample : PB168408BL
Misc :
ALS Vial : 61 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 052425.M
Title : GC Extractables

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	7.733	7.647	7.784	BB	588138	5580932	88.50%	35.752%
2	8.598	8.539	8.640	BB	375716	3722980	59.03%	23.849%
3	11.645	11.580	11.690	BB	589219	6306403	100.00%	40.399%
			Sum of corrected areas:			15610315		

Aromatic EPH 052425.M Thu Jun 12 05:38:06 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC060925AL\
Data File : FC069135.D
Signal(s) : FID1A.ch
Acq On : 09 Jun 2025 16:57
Operator : YP/AJ
Sample : PB168324BS
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
PB168324BS

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 06/10/2025
Supervised By :mohammad ahmed 06/11/2025

Integration File: autoint1.e
Quant Time: Jun 10 05:23:50 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 052425.M
Quant Title : GC Extractables
QLast Update : Tue May 27 01:48:55 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
12) S	1-chlorooctadecane (S...	13.113	3366566	37.526 ug/ml
Spiked Amount	50.000		Recovery =	75.05%
	Target Compounds			
1) T	n-Nonane (C9)	3.400	2217452	20.895 ug/ml
2) T	n-Decane (C10)	4.476	2679793	25.303 ug/ml
4) T	n-Dodecane (C12)	6.503	2953611	28.097 ug/ml
6) T	n-Tetradecane (C14)	8.303	3054731	29.801 ug/ml
7) T	n-Hexadecane (C16)	9.908	3236632	31.898 ug/ml
8) T	n-Octadecane (C18)	11.353	3312495	33.143 ug/mlm
10) T	n-Eicosane (C20)	12.666	3555373	36.504 ug/ml
11) T	n-Heneicosane (C21)	13.281	3487347	36.231 ug/ml
13) T	n-Docosane (C22)	13.868	3503194	36.772 ug/ml
14) T	n-Tetracosane (C24)	14.974	3529259	37.484 ug/ml
15) T	n-Hexacosane (C26)	15.997	3496699	37.663 ug/ml
16) T	n-Octacosane (C28)	16.949	3480519	37.444 ug/ml
17) T	n-Tricontane (C30)	17.839	3536231	36.547 ug/ml
18) T	n-Dotriacontane (C32)	18.674	3563259	35.957 ug/ml
19) T	n-Tetratriacontane (C34)	19.460	3578132	37.126 ug/ml
20) T	n-Hexatriacontane (C36)	20.202	3444828	36.288 ug/ml
21) T	n-Octatriacontane (C38)	20.972	3202447	35.101 ug/ml
22) T	n-Tetracontane (C40)	21.938	2598811	29.453 ug/mlm

(f)=RT Delta > 1/2 Window (m)=manual int.

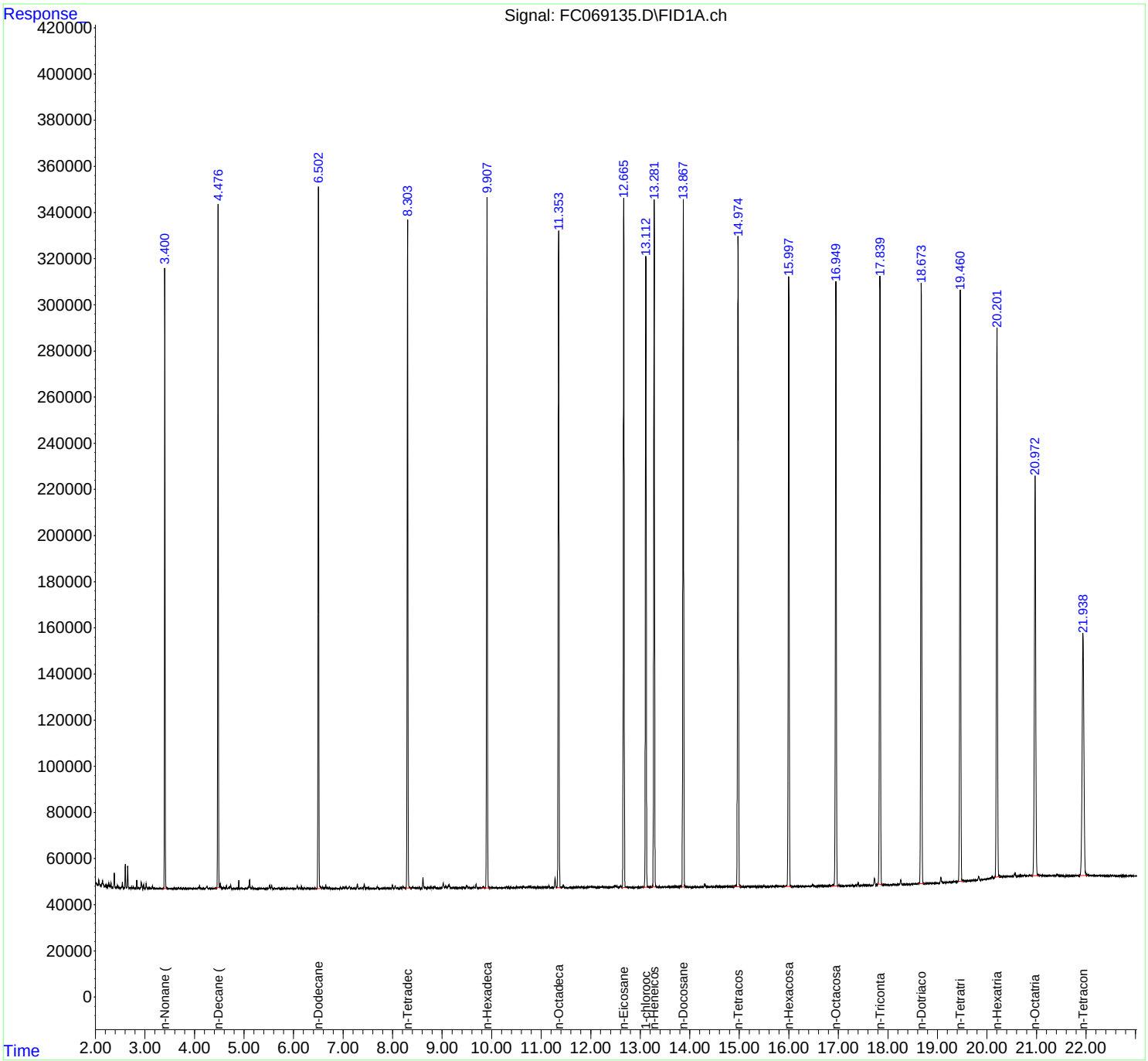
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC060925AL\
Data File : FC069135.D
Signal(s) : FID1A.ch
Acq On : 09 Jun 2025 16:57
Operator : YP/AJ
Sample : PB168324BS
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
PB168324BS

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 06/10/2025
Supervised By :mohammad ahmed 06/11/2025

Integration File: autoint1.e
Quant Time: Jun 10 05:23:50 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 052425.M
Quant Title : GC Extractables
QLast Update : Tue May 27 01:48:55 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um



12

Instrument :
FID_C
ClientSampleId :
PB168324BS

rteres

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 06/10/2025
Supervised By :mohammad ahmed 06/11/2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC06092
Data File : FC069135.D
Signal(s) : FID1A.ch
Acq On : 09 Jun 2025 16:57
Sample : PB168324BS
Misc :
ALS Vial : 12 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 052425.M
Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.400	3.350	3.447	BB	268489	2217452	61.97%	3.599%
2	4.476	4.420	4.505	BV	295574	2679793	74.89%	4.349%
3	6.503	6.442	6.573	BV	303942	2953611	82.55%	4.794%
4	8.303	8.243	8.365	BB	290305	3054731	85.37%	4.958%
5	9.908	9.783	9.958	BB	299159	3236632	90.46%	5.253%
6	11.353	11.330	11.393	BB	282366	3203643	89.53%	5.199%
7	12.666	12.628	12.718	BB	296226	3555373	99.36%	5.770%
8	13.113	13.043	13.158	BB	273202	3366566	94.09%	5.464%
9	13.281	13.220	13.322	BB	298888	3487347	97.46%	5.660%
10	13.868	13.831	13.912	PB	295831	3503194	97.91%	5.686%
11	14.974	14.883	15.032	BB	279346	3529259	98.63%	5.728%
12	15.997	15.907	16.062	BB	264550	3496699	97.72%	5.675%
13	16.949	16.865	17.005	BB	260642	3480519	97.27%	5.649%
14	17.839	17.800	17.895	BB	262743	3536231	98.83%	5.739%
15	18.674	18.617	18.732	BB	259724	3563259	99.58%	5.783%
16	19.460	19.420	19.518	BB	255549	3578132	100.00%	5.807%
17	20.202	20.160	20.257	BB	238494	3444828	96.27%	5.591%
18	20.972	20.892	21.055	BB	172990	3202447	89.50%	5.197%
19	21.939	21.890	22.025	BB	103816	2525611	70.58%	4.099%
			Sum of corrected areas:			61615327		

Aliphatic EPH 052425.M Tue Jun 10 06:18:13 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD060925AR\
Data File : FD049416.D
Signal(s) : FID2B.ch
Acq On : 09 Jun 2025 16:57
Operator : YP/AJ
Sample : PB168324BS
Misc :
ALS Vial : 62 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
PB168324BS

Integration File: autoint1.e
Quant Time: Jun 10 02:35:19 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 052425.M
Quant Title : GC Extractables
QLast Update : Tue May 27 03:11:40 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
4)	S 2-Bromonaphthalene (S...	7.733	5669143	34.103 ug/ml
	Spiked Amount 50.000		Recovery =	68.21%
6)	S 2-Flurobiphenyl (SURR)	8.599	3820043	33.393 ug/ml
	Spiked Amount 50.000 Range 0 - 131		Recovery =	66.79%
11)	S ortho-Terphenyl (SURR)	11.645	5766961	28.731 ug/ml
	Spiked Amount 50.000		Recovery =	57.46%
	Target Compounds			
1)	T 1,2,3-Trimethylbenzen...	4.526	3499901	21.997 ug/ml
2)	T Naphthalene (C11.7)	6.069	4112843	23.424 ug/ml
3)	T 2-Methylnaphthalene (...	7.122	3979003	22.273 ug/ml
5)	T Acenaphthylene (C15.06)	8.402	4730412	24.420 ug/ml
7)	T Acenaphthene (C15.5)	8.698	4743954	24.940 ug/ml
8)	T Flouorene (C16.55)	9.479	4948337	25.308 ug/ml
9)	T Phenanthrene (C19.36)	10.878	5042655	26.521 ug/ml
10)	T Anthracene (C19.43)	10.953	4835094	27.658 ug/ml
12)	T Fluoranthene (C21.85)	12.694	5127373	28.426 ug/ml
13)	T Pyrene (C20.8)	12.992	5142168	28.811 ug/ml
14)	T Benzo[a]anthracene (C...	14.864	4698120	30.911 ug/ml
15)	T Chrysene (C27.41)	14.908	5198728	34.235 ug/ml
16)	T benzo[b]fluoranthene ...	16.416	4812910	33.250 ug/ml
17)	T Bnezo[k]fluoranthene ...	16.450	4763515	33.195 ug/ml
18)	T Benzo[a]pyrene (C31.34)	16.796	4620605	33.997 ug/ml
19)	T Indeno[1,2,3-cd]pyren...	18.161	4649880	36.404 ug/ml
20)	T Dibenz[a,h]anthracene...	18.200	4146286	30.799 ug/ml
21)	T Benzo[g,h,i]perylene ...	18.419	4491854	33.326 ug/ml

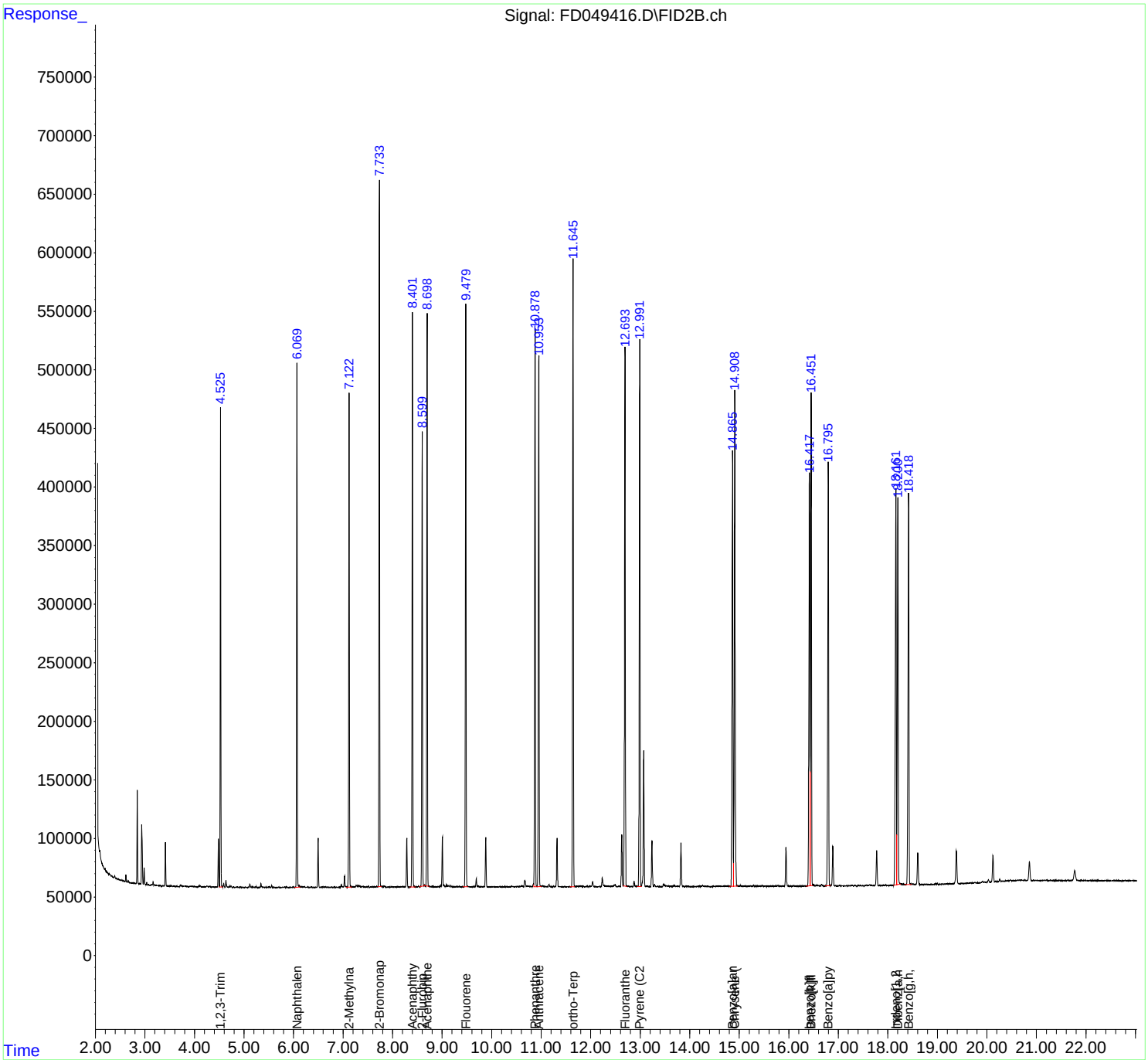
(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD060925AR\
Data File : FD049416.D
Signal(s) : FID2B.ch
Acq On : 09 Jun 2025 16:57
Operator : YP/AJ
Sample : PB168324BS
Misc :
ALS Vial : 62 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
PB168324BS

Integration File: autoint1.e
Quant Time: Jun 10 02:35:19 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 052425.M
Quant Title : GC Extractables
QLast Update : Tue May 27 03:11:40 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm



rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD060925AR\
Data File : FD049416.D
Signal(s) : FID2B.ch
Acq On : 09 Jun 2025 16:57
Sample : PB168324BS
Misc :
ALS Vial : 62 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 052425.M
Title : GC Extractables

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.526	4.503	4.572	VV	409153	3499901	60.69%	3.542%
2	6.069	6.015	6.138	BB	446714	4112843	71.32%	4.163%
3	7.122	7.068	7.172	BB	420886	3979003	69.00%	4.027%
4	7.733	7.695	7.777	BB	602848	5669143	98.30%	5.738%
5	8.402	8.337	8.458	BB	490566	4730412	82.03%	4.788%
6	8.599	8.543	8.643	BB	386472	3820043	66.24%	3.866%
7	8.698	8.643	8.740	BB	488945	4743954	82.26%	4.802%
8	9.479	9.420	9.523	BB	498450	4948337	85.80%	5.008%
9	10.878	10.848	10.917	VV	476340	5042655	87.44%	5.104%
10	10.953	10.917	11.003	PB	453667	4835094	83.84%	4.894%
11	11.645	11.585	11.680	BB	535767	5766961	100.00%	5.837%
12	12.694	12.650	12.737	BB	459494	5127373	88.91%	5.190%
13	12.992	12.935	13.022	BV	467525	5142168	89.17%	5.205%
14	14.864	14.795	14.883	BV	373574	4698120	81.47%	4.755%
15	14.908	14.883	14.970	VB	423620	5198728	90.15%	5.262%
16	16.416	16.348	16.431	BV	353034	4812910	83.46%	4.871%
17	16.450	16.431	16.487	VB	418982	4763515	82.60%	4.821%
18	16.796	16.728	16.845	BB	362457	4620605	80.12%	4.677%
19	18.161	18.110	18.177	BV	338736	4649880	80.63%	4.706%
20	18.200	18.177	18.262	VB	330357	4146286	71.90%	4.197%
21	18.419	18.345	18.480	BB	333615	4491854	77.89%	4.546%
			Sum of corrected areas:			98799785		

Aromatic EPH 052425.M Tue Jun 10 02:58:33 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC061125AL\
Data File : FC069158.D
Signal(s) : FID1A.ch
Acq On : 11 Jun 2025 17:15
Operator : YP/AJ
Sample : PB168408BS
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
PB168408BS

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 06/12/2025
Supervised By :mohammad ahmed 06/13/2025

Integration File: autoint1.e
Quant Time: Jun 12 06:04:38 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 052425.M
Quant Title : GC Extractables
QLast Update : Tue May 27 01:48:55 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
12) S	1-chlorooctadecane (S...	13.116	3406395	37.970 ug/ml
Spiked Amount	50.000		Recovery =	75.94%
	Target Compounds			
1) T	n-Nonane (C9)	3.406	2230358	21.017 ug/ml
2) T	n-Decane (C10)	4.481	2689801	25.398 ug/ml
4) T	n-Dodecane (C12)	6.507	2958624	28.145 ug/ml
6) T	n-Tetradecane (C14)	8.306	3052905	29.783 ug/ml
7) T	n-Hexadecane (C16)	9.911	3231344	31.846 ug/ml
8) T	n-Octadecane (C18)	11.356	3268350	32.702 ug/ml
10) T	n-Eicosane (C20)	12.669	3555843	36.508 ug/ml
11) T	n-Heneicosane (C21)	13.283	3495201	36.313 ug/ml
13) T	n-Docosane (C22)	13.870	3515122	36.897 ug/ml
14) T	n-Tetracosane (C24)	14.975	3553253	37.739 ug/ml
15) T	n-Hexacosane (C26)	15.999	3528040	38.001 ug/ml
16) T	n-Octacosane (C28)	16.950	3538487	38.068 ug/ml
17) T	n-Tricontane (C30)	17.841	3631105	37.528 ug/ml
18) T	n-Dotriacontane (C32)	18.675	3683844	37.174 ug/ml
19) T	n-Tetratriacontane (C34)	19.460	3707841	38.471 ug/ml
20) T	n-Hexatriacontane (C36)	20.202	3584204	37.756 ug/ml
21) T	n-Octatriacontane (C38)	20.972	3356685	36.792 ug/ml
22) T	n-Tetracontane (C40)	21.937	2790032	31.621 ug/mlm

(f)=RT Delta > 1/2 Window (m)=manual int.

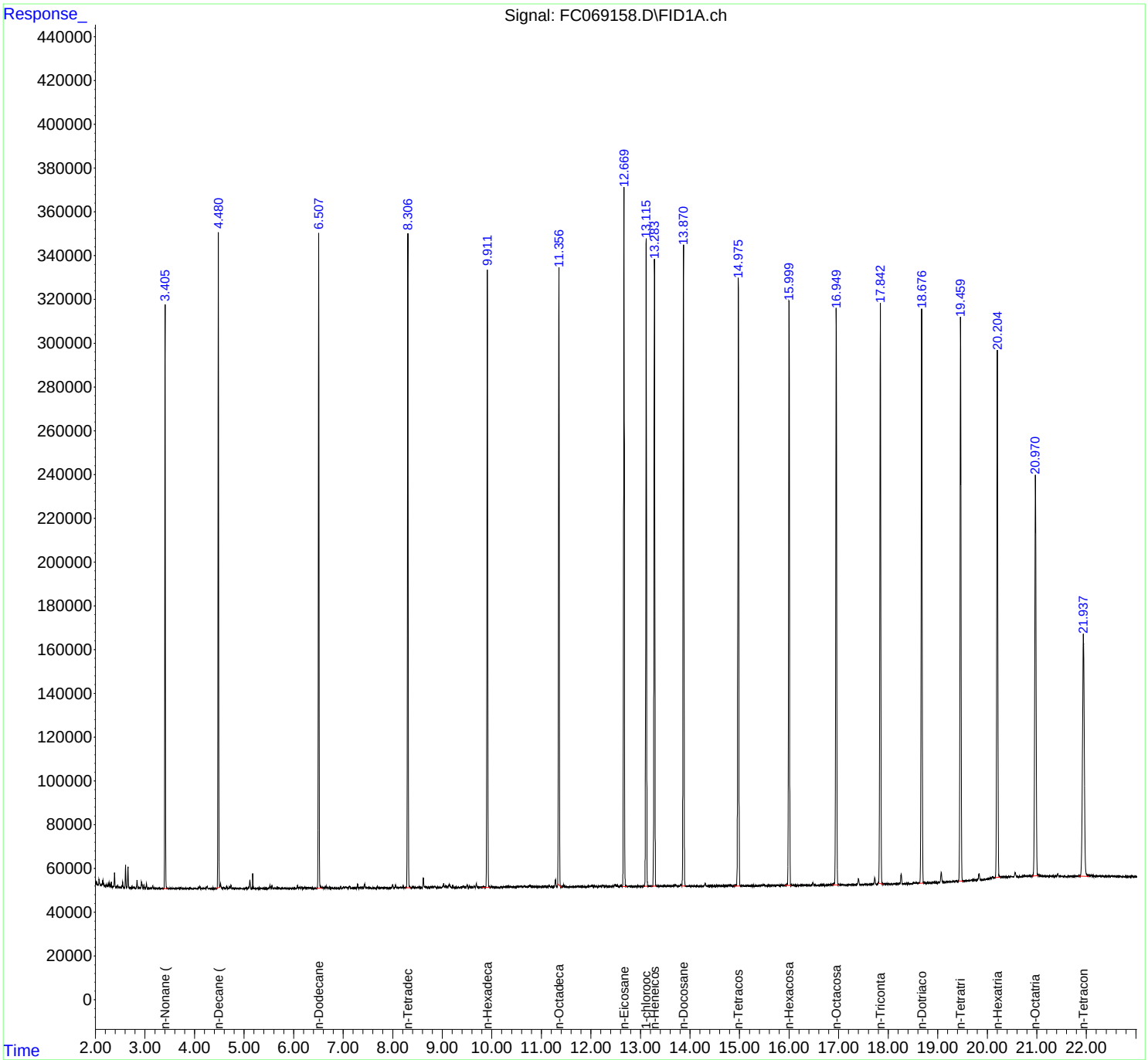
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC061125AL\
Data File : FC069158.D
Signal(s) : FID1A.ch
Acq On : 11 Jun 2025 17:15
Operator : YP/AJ
Sample : PB168408BS
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
PB168408BS

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 06/12/2025
Supervised By :mohammad ahmed 06/13/2025

Integration File: autoint1.e
Quant Time: Jun 12 06:04:38 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 052425.M
Quant Title : GC Extractables
QLast Update : Tue May 27 01:48:55 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um



12

Instrument :
FID_C
ClientSampleId :
PB168408BS

rteres

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 06/12/2025
Supervised By :mohammad ahmed 06/13/2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC06112
Data File : FC069158.D
Signal(s) : FID1A.ch
Acq On : 11 Jun 2025 17:15
Sample : PB168408BS
Misc :
ALS Vial : 12 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 052425.M
Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.406	3.357	3.455	BB	266450	2230358	60.15%	3.558%
2	4.481	4.425	4.510	BV	299559	2689801	72.54%	4.291%
3	6.507	6.454	6.575	BV	299429	2958624	79.79%	4.720%
4	8.306	8.250	8.370	BB	299312	3052905	82.34%	4.870%
5	9.911	9.789	9.964	BB	282715	3231344	87.15%	5.155%
6	11.356	11.330	11.402	BB	281502	3268350	88.15%	5.214%
7	12.669	12.635	12.722	BB	319268	3555843	95.90%	5.673%
8	13.116	13.055	13.149	BB	295023	3406395	91.87%	5.434%
9	13.283	13.222	13.322	BB	287284	3495201	94.27%	5.576%
10	13.870	13.834	13.922	VB	293199	3515122	94.80%	5.608%
11	14.975	14.885	15.015	BB	276778	3553253	95.83%	5.669%
12	15.999	15.907	16.039	BB	266689	3528040	95.15%	5.628%
13	16.950	16.869	17.010	BB	262331	3538487	95.43%	5.645%
14	17.841	17.800	17.897	BB	260306	3631105	97.93%	5.793%
15	18.675	18.620	18.722	BB	261621	3683844	99.35%	5.877%
16	19.460	19.420	19.520	BB	255205	3707841	100.00%	5.915%
17	20.202	20.160	20.264	BB	238937	3584204	96.67%	5.718%
18	20.972	20.897	21.035	BB	180794	3356685	90.53%	5.355%
19	21.939	21.890	22.037	BB	108723	2695479	72.70%	4.300%
			Sum of corrected areas:			62682879		

Aliphatic EPH 052425.M Thu Jun 12 06:57:39 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD061125AR\
Data File : FD049433.D
Signal(s) : FID2B.ch
Acq On : 11 Jun 2025 17:15
Operator : YP/AJ
Sample : PB168408BS
Misc :
ALS Vial : 62 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
PB168408BS

Integration File: autoint1.e
Quant Time: Jun 12 04:59:26 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 052425.M
Quant Title : GC Extractables
QLast Update : Tue May 27 03:11:40 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
4)	S 2-Bromonaphthalene (S...	7.733	6082670	36.591	ug/ml
Spiked Amount	50.000		Recovery =	73.18%	
6)	S 2-Flurobiphenyl (SURR)	8.599	4126519	36.072	ug/ml
Spiked Amount	50.000 Range	0 - 131	Recovery =	72.14%	
11)	S ortho-Terphenyl (SURR)	11.645	6218341	30.980	ug/ml
Spiked Amount	50.000		Recovery =	61.96%	
	Target Compounds				
1)	T 1,2,3-Trimethylbenzen...	4.525	3692267	23.207	ug/ml
2)	T Naphthalene (C11.7)	6.069	4344617	24.744	ug/ml
3)	T 2-Methylnaphthalene (...	7.123	4264479	23.871	ug/ml
5)	T Acenaphthylene (C15.06)	8.402	5052028	26.080	ug/ml
7)	T Acenaphthene (C15.5)	8.698	5074718	26.679	ug/ml
8)	T Flouorene (C16.55)	9.480	5343699	27.331	ug/ml
9)	T Phenanthrene (C19.36)	10.879	5496426	28.907	ug/ml
10)	T Anthracene (C19.43)	10.954	5281115	30.209	ug/ml
12)	T Fluoranthene (C21.85)	12.694	5534313	30.682	ug/ml
13)	T Pyrene (C20.8)	12.992	5531498	30.992	ug/ml
14)	T Benzo[a]anthracene (C...	14.863	5125382	33.722	ug/ml
15)	T Chrysene (C27.41)	14.907	5659378	37.268	ug/ml
16)	T benzo[b]fluoranthene ...	16.415	5140483	35.514	ug/ml
17)	T Bnezo[k]fluoranthene ...	16.450	5082863	35.421	ug/ml
18)	T Benzo[a]pyrene (C31.34)	16.795	4906573	36.101	ug/ml
19)	T Indeno[1,2,3-cd]pyren...	18.160	4985230	39.029	ug/ml
20)	T Dibenz[a,h]anthracene...	18.199	4577074	33.999	ug/ml
21)	T Benzo[g,h,i]perylene ...	18.417	4762929	35.337	ug/ml

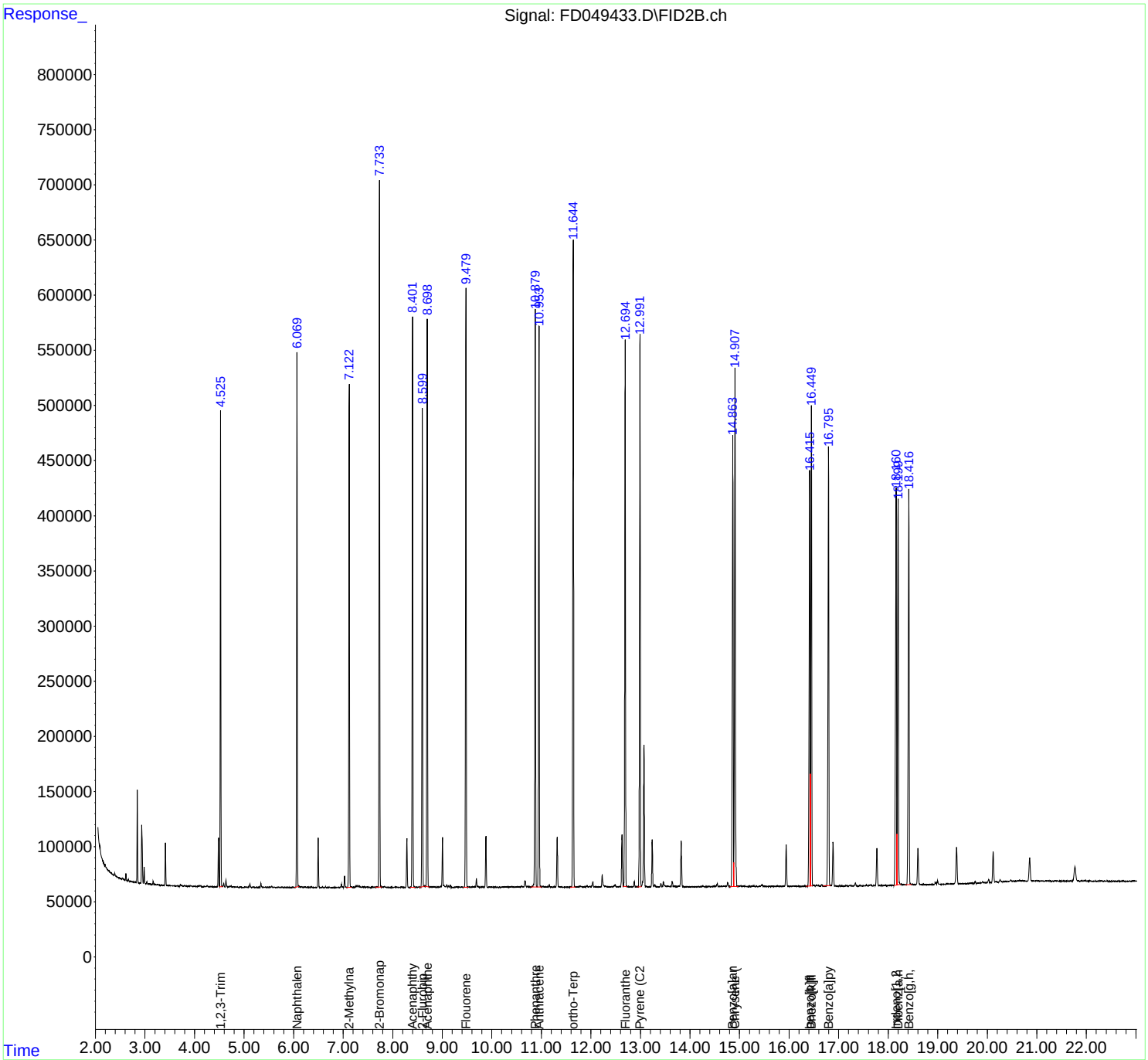
(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD061125AR\
Data File : FD049433.D
Signal(s) : FID2B.ch
Acq On : 11 Jun 2025 17:15
Operator : YP/AJ
Sample : PB168408BS
Misc :
ALS Vial : 62 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
PB168408BS

Integration File: autoint1.e
Quant Time: Jun 12 04:59:26 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 052425.M
Quant Title : GC Extractables
QLast Update : Tue May 27 03:11:40 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm



rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD061225AR\
Data File : FD049433.D
Signal(s) : FID2B.ch
Acq On : 11 Jun 2025 17:15
Sample : PB168408BS
Misc :
ALS Vial : 62 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 052425.M
Title : GC Extractables

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.525	4.504	4.572	VV	431366	3692267	59.38%	3.474%
2	6.069	6.015	6.109	BB	483944	4344617	69.87%	4.088%
3	7.123	7.069	7.169	BB	455183	4264479	68.58%	4.012%
4	7.733	7.647	7.784	BB	640353	6082670	97.82%	5.723%
5	8.402	8.349	8.455	BB	517364	5052028	81.24%	4.753%
6	8.599	8.540	8.634	BB	432709	4126519	66.36%	3.883%
7	8.698	8.644	8.737	BB	515225	5074718	81.61%	4.775%
8	9.480	9.424	9.530	BB	543147	5343699	85.93%	5.028%
9	10.879	10.780	10.917	BV	524200	5496426	88.39%	5.172%
10	10.954	10.917	11.004	PB	508824	5281115	84.93%	4.969%
11	11.645	11.582	11.692	BB	587385	6218341	100.00%	5.851%
12	12.694	12.650	12.725	BB	495827	5534313	89.00%	5.207%
13	12.992	12.930	13.017	BV	501509	5531498	88.95%	5.205%
14	14.863	14.802	14.882	BV	409665	5125382	82.42%	4.822%
15	14.907	14.882	14.967	VB	470270	5659378	91.01%	5.325%
16	16.415	16.345	16.430	BV	376758	5140483	82.67%	4.837%
17	16.450	16.430	16.481	VB	433953	5082863	81.74%	4.782%
18	16.795	16.687	16.839	BB	398663	4906573	78.90%	4.617%
19	18.160	18.110	18.176	BV	359869	4985230	80.17%	4.691%
20	18.199	18.176	18.250	VB	348557	4577074	73.61%	4.307%
21	18.417	18.344	18.474	BB	358730	4762929	76.59%	4.481%

Sum of corrected areas: 106282602

Aromatic EPH 052425.M Thu Jun 12 05:40:16 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC060925AL\
Data File : FC069136.D
Signal(s) : FID1A.ch
Acq On : 09 Jun 2025 17:37
Operator : YP/AJ
Sample : PB168324BSD
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
PB168324BSD

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 06/10/2025
Supervised By :mohammad ahmed 06/11/2025

Integration File: autoint1.e
Quant Time: Jun 10 05:24:09 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 052425.M
Quant Title : GC Extractables
QLast Update : Tue May 27 01:48:55 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
12) S	1-chlorooctadecane (S...	13.114	3493029	38.935 ug/ml
Spiked Amount	50.000		Recovery =	77.87%
	Target Compounds			
1) T	n-Nonane (C9)	3.401	2327293	21.930 ug/ml
2) T	n-Decane (C10)	4.476	2813430	26.565 ug/ml
4) T	n-Dodecane (C12)	6.502	3093089	29.424 ug/ml
6) T	n-Tetradecane (C14)	8.302	3187020	31.092 ug/ml
7) T	n-Hexadecane (C16)	9.908	3360821	33.122 ug/ml
8) T	n-Octadecane (C18)	11.352	3424204	34.261 ug/mlm
10) T	n-Eicosane (C20)	12.668	3665722	37.637 ug/ml
11) T	n-Heneicosane (C21)	13.281	3589570	37.293 ug/ml
13) T	n-Docosane (C22)	13.869	3602528	37.814 ug/ml
14) T	n-Tetracosane (C24)	14.974	3622735	38.477 ug/ml
15) T	n-Hexacosane (C26)	15.997	3574251	38.498 ug/ml
16) T	n-Octacosane (C28)	16.949	3545854	38.147 ug/ml
17) T	n-Tricontane (C30)	17.839	3586320	37.065 ug/ml
18) T	n-Dotriacontane (C32)	18.673	3613612	36.465 ug/ml
19) T	n-Tetratriacontane (C34)	19.460	3648561	37.856 ug/ml
20) T	n-Hexatriacontane (C36)	20.202	3586181	37.777 ug/ml
21) T	n-Octatriacontane (C38)	20.973	3483420	38.181 ug/ml
22) T	n-Tetracontane (C40)	21.942	3122908	35.393 ug/mlm

(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC060925AL\
Data File : FC069136.D
Signal(s) : FID1A.ch
Acq On : 09 Jun 2025 17:37
Operator : YP/AJ
Sample : PB168324BSD
Misc :
ALS Vial : 13 Sample Multiplier: 1

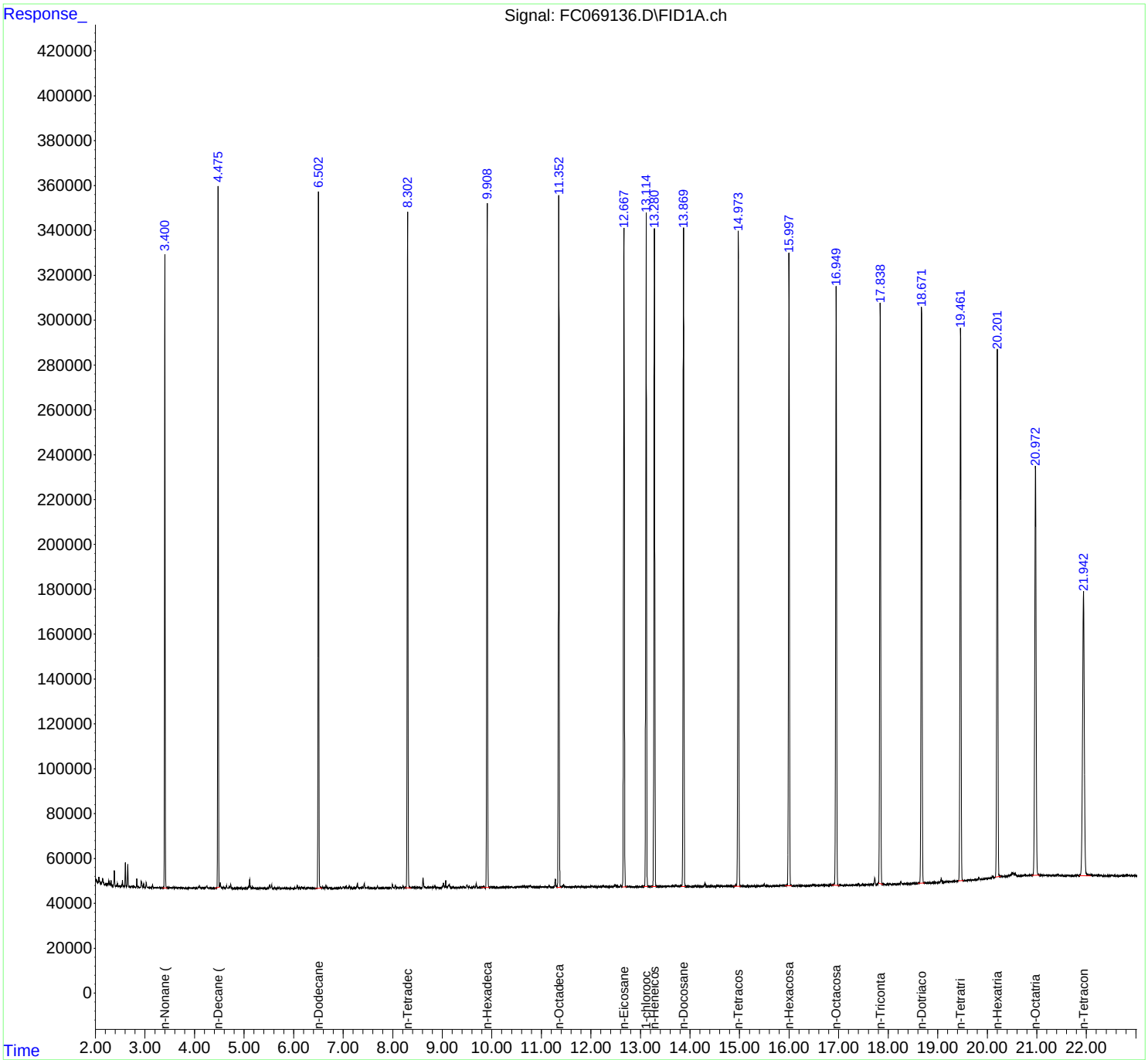
Integration File: autoint1.e
Quant Time: Jun 10 05:24:09 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 052425.M
Quant Title : GC Extractables
QLast Update : Tue May 27 01:48:55 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

Instrument :
FID_C
ClientSampleId :
PB168324BSD

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 06/10/2025
Supervised By :mohammad ahmed 06/11/2025



12

Instrument :
FID_C
ClientSampleId :
PB168324BSD

rteres

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 06/10/2025
Supervised By :mohammad ahmed 06/11/2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC06092
Data File : FC069136.D
Signal(s) : FID1A.ch
Acq On : 09 Jun 2025 17:37
Sample : PB168324BSD
Misc :
ALS Vial : 13 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 052425.M
Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.401	3.350	3.442	BB	281841	2327293	63.49%	3.628%
2	4.476	4.420	4.505	BV	312351	2813430	76.75%	4.386%
3	6.502	6.438	6.570	BB	310472	3093089	84.38%	4.822%
4	8.302	8.247	8.367	BB	301374	3187020	86.94%	4.968%
5	9.908	9.787	9.955	BB	305496	3360821	91.68%	5.239%
6	11.353	11.330	11.392	BB	302141	3341075	91.14%	5.208%
7	12.668	12.630	12.722	PB	294857	3665722	100.00%	5.714%
8	13.114	13.055	13.153	BB	301455	3493029	95.29%	5.445%
9	13.281	13.218	13.318	BB	293906	3589570	97.92%	5.596%
10	13.869	13.831	13.913	VB	292257	3602528	98.28%	5.616%
11	14.974	14.880	15.018	BB	292026	3622735	98.83%	5.647%
12	15.997	15.915	16.057	BB	281923	3574251	97.50%	5.572%
13	16.949	16.865	17.013	BB	266529	3545854	96.73%	5.527%
14	17.839	17.800	17.897	BB	258501	3586320	97.83%	5.590%
15	18.673	18.598	18.728	BB	252605	3613612	98.58%	5.633%
16	19.460	19.420	19.520	BB	246067	3648561	99.53%	5.688%
17	20.202	20.160	20.268	BB	234644	3586181	97.83%	5.590%
18	20.973	20.893	21.055	BB	181895	3483420	95.03%	5.430%
19	21.942	21.890	22.040	BB	125617	3015844	82.27%	4.701%
			Sum of corrected areas:			64150354		

Aliphatic EPH 052425.M Tue Jun 10 06:18:36 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD060925AR\
Data File : FD049417.D
Signal(s) : FID2B.ch
Acq On : 09 Jun 2025 17:37
Operator : YP/AJ
Sample : PB168324BSD
Misc :
ALS Vial : 63 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
PB168324BSD

Integration File: autoint1.e
Quant Time: Jun 10 02:35:38 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 052425.M
Quant Title : GC Extractables
QLast Update : Tue May 27 03:11:40 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
4) S	2-Bromonaphthalene (S...	7.733	5235013	31.492 ug/ml
Spiked Amount	50.000		Recovery =	62.98%
6) S	2-Flurobiphenyl (SURR)	8.598	3547472	31.010 ug/ml
Spiked Amount	50.000 Range	0 - 131	Recovery =	62.02%
11) S	ortho-Terphenyl (SURR)	11.644	5354384	26.676 ug/ml
Spiked Amount	50.000		Recovery =	53.35%
	Target Compounds			
1) T	1,2,3-Trimethylbenzen...	4.525	3225620	20.274 ug/ml
2) T	Naphthalene (C11.7)	6.067	3770705	21.475 ug/ml
3) T	2-Methylnaphthalene (...	7.121	3683509	20.619 ug/ml
5) T	Acenaphthylene (C15.06)	8.401	4361706	22.516 ug/ml
7) T	Acenaphthene (C15.5)	8.697	4385346	23.054 ug/ml
8) T	Flouorene (C16.55)	9.479	4596241	23.508 ug/ml
9) T	Phenanthrene (C19.36)	10.878	4729941	24.876 ug/ml
10) T	Anthracene (C19.43)	10.953	4554391	26.052 ug/ml
12) T	Fluoranthene (C21.85)	12.693	4803640	26.631 ug/ml
13) T	Pyrene (C20.8)	12.991	4810183	26.951 ug/ml
14) T	Benzo[a]anthracene (C...	14.863	4485779	29.514 ug/ml
15) T	Chrysene (C27.41)	14.907	4951080	32.604 ug/ml
16) T	benzo[b]fluoranthene ...	16.416	4552141	31.449 ug/ml
17) T	Bnezo[k]fluoranthene ...	16.450	4524513	31.530 ug/ml
18) T	Benzo[a]pyrene (C31.34)	16.796	4380687	32.231 ug/ml
19) T	Indeno[1,2,3-cd]pyren...	18.162	4507749	35.291 ug/ml
20) T	Dibenz[a,h]anthracene...	18.200	4143409	30.777 ug/ml
21) T	Benzo[g,h,i]perylene ...	18.418	4294233	31.860 ug/ml

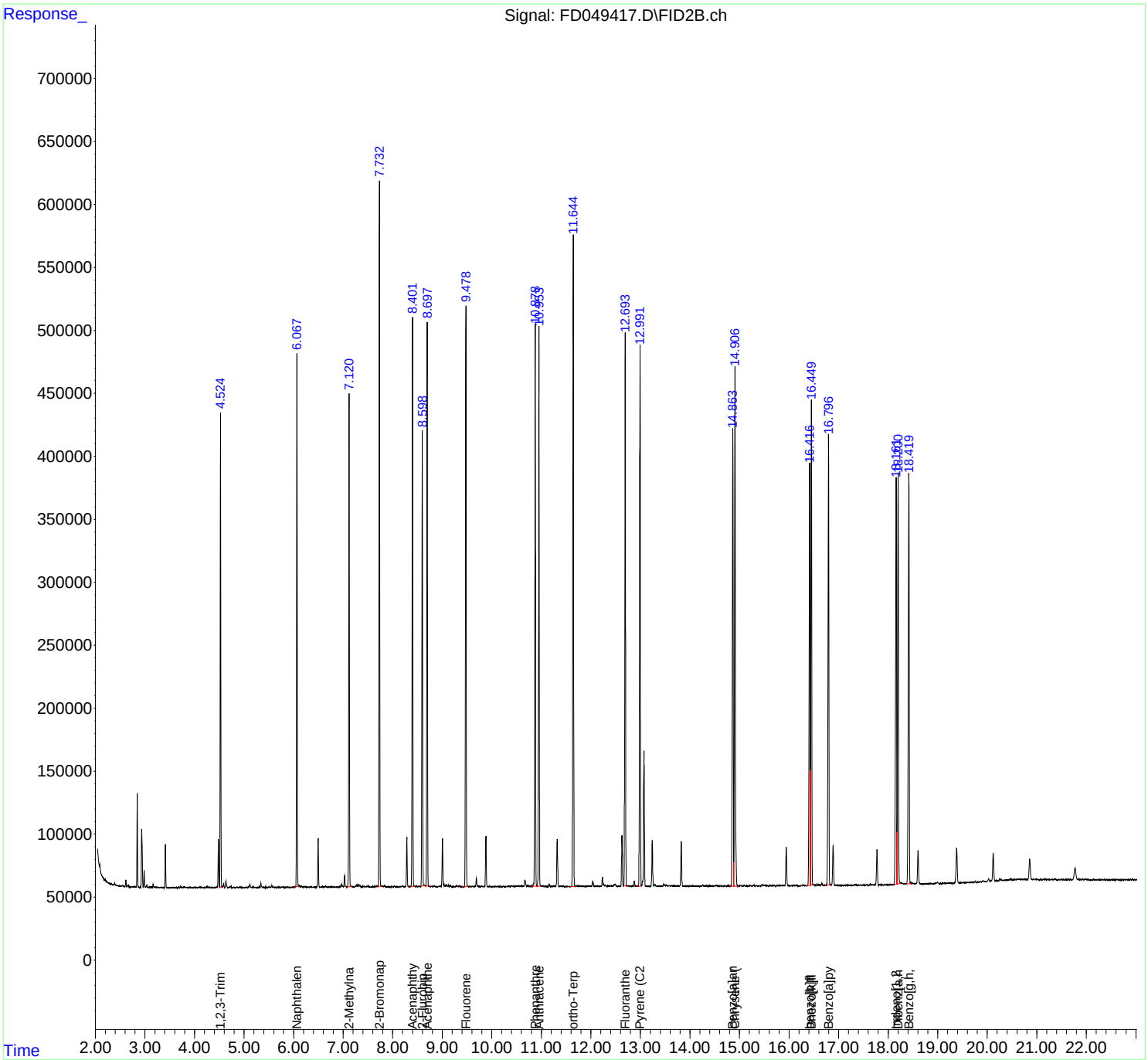
(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD060925AR\
Data File : FD049417.D
Signal(s) : FID2B.ch
Acq On : 09 Jun 2025 17:37
Operator : YP/AJ
Sample : PB168324BSD
Misc :
ALS Vial : 63 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
PB168324BSD

Integration File: autoint1.e
Quant Time: Jun 10 02:35:38 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 052425.M
Quant Title : GC Extractables
QLast Update : Tue May 27 03:11:40 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm



rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD060925AR\
Data File : FD049417.D
Signal(s) : FID2B.ch
Acq On : 09 Jun 2025 17:37
Sample : PB168324BSD
Misc :
ALS Vial : 63 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 052425.M
Title : GC Extractables

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.525	4.503	4.570	VV	377100	3225620	60.24%	3.472%
2	6.067	6.015	6.117	BB	422456	3770705	70.42%	4.059%
3	7.121	7.068	7.173	BB	390047	3683509	68.79%	3.965%
4	7.733	7.680	7.787	BB	558343	5235013	97.77%	5.635%
5	8.401	8.348	8.450	BB	451894	4361706	81.46%	4.695%
6	8.598	8.563	8.642	BB	361515	3547472	66.25%	3.819%
7	8.697	8.647	8.742	BB	448124	4385346	81.90%	4.721%
8	9.479	9.418	9.523	BB	459863	4596241	85.84%	4.948%
9	10.878	10.802	10.917	BV	448399	4729941	88.34%	5.092%
10	10.953	10.917	10.995	PB	444611	4554391	85.06%	4.903%
11	11.644	11.575	11.692	BB	516473	5354384	100.00%	5.764%
12	12.693	12.650	12.725	BB	438187	4803640	89.71%	5.171%
13	12.991	12.930	13.019	BV	431776	4810183	89.84%	5.178%
14	14.863	14.803	14.883	BV	363464	4485779	83.78%	4.829%
15	14.907	14.883	14.972	VB	412841	4951080	92.47%	5.330%
16	16.416	16.348	16.431	BV	335577	4552141	85.02%	4.900%
17	16.450	16.431	16.487	VV	385449	4524513	84.50%	4.870%
18	16.796	16.732	16.838	BB	358592	4380687	81.81%	4.716%
19	18.162	18.110	18.178	BV	322941	4507749	84.19%	4.852%
20	18.200	18.178	18.262	VB	325556	4143409	77.38%	4.460%
21	18.418	18.345	18.472	BB	325147	4294233	80.20%	4.623%
			Sum of corrected areas:			92897744		

Aromatic EPH 052425.M Tue Jun 10 02:59:18 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC061125AL\
Data File : FC069159.D
Signal(s) : FID1A.ch
Acq On : 11 Jun 2025 17:57
Operator : YP/AJ
Sample : PB168408BSD
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
PB168408BSD

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 06/12/2025
Supervised By :mohammad ahmed 06/13/2025

Integration File: autoint1.e
Quant Time: Jun 12 06:04:56 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 052425.M
Quant Title : GC Extractables
QLast Update : Tue May 27 01:48:55 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
12) S	1-chlorooctadecane (S...	13.115	3465185	38.625 ug/ml
Spiked Amount	50.000		Recovery =	77.25%
	Target Compounds			
1) T	n-Nonane (C9)	3.406	2259686	21.293 ug/ml
2) T	n-Decane (C10)	4.480	2725623	25.736 ug/ml
4) T	n-Dodecane (C12)	6.506	3002002	28.557 ug/ml
6) T	n-Tetradecane (C14)	8.305	3089908	30.144 ug/ml
7) T	n-Hexadecane (C16)	9.910	3261116	32.140 ug/ml
8) T	n-Octadecane (C18)	11.355	3332929	33.348 ug/mlm
10) T	n-Eicosane (C20)	12.668	3588430	36.843 ug/ml
11) T	n-Heneicosane (C21)	13.282	3526278	36.636 ug/ml
13) T	n-Docosane (C22)	13.869	3548367	37.246 ug/ml
14) T	n-Tetracosane (C24)	14.974	3595477	38.188 ug/ml
15) T	n-Hexacosane (C26)	15.999	3569762	38.450 ug/ml
16) T	n-Octacosane (C28)	16.950	3570341	38.410 ug/ml
17) T	n-Tricontane (C30)	17.840	3651998	37.744 ug/ml
18) T	n-Dotriacontane (C32)	18.674	3697035	37.307 ug/ml
19) T	n-Tetratriacontane (C34)	19.461	3735390	38.757 ug/ml
20) T	n-Hexatriacontane (C36)	20.202	3662913	38.586 ug/ml
21) T	n-Octatriacontane (C38)	20.972	3539927	38.800 ug/ml
22) T	n-Tetracontane (C40)	21.941	3141718	35.606 ug/mlm

(f)=RT Delta > 1/2 Window (m)=manual int.

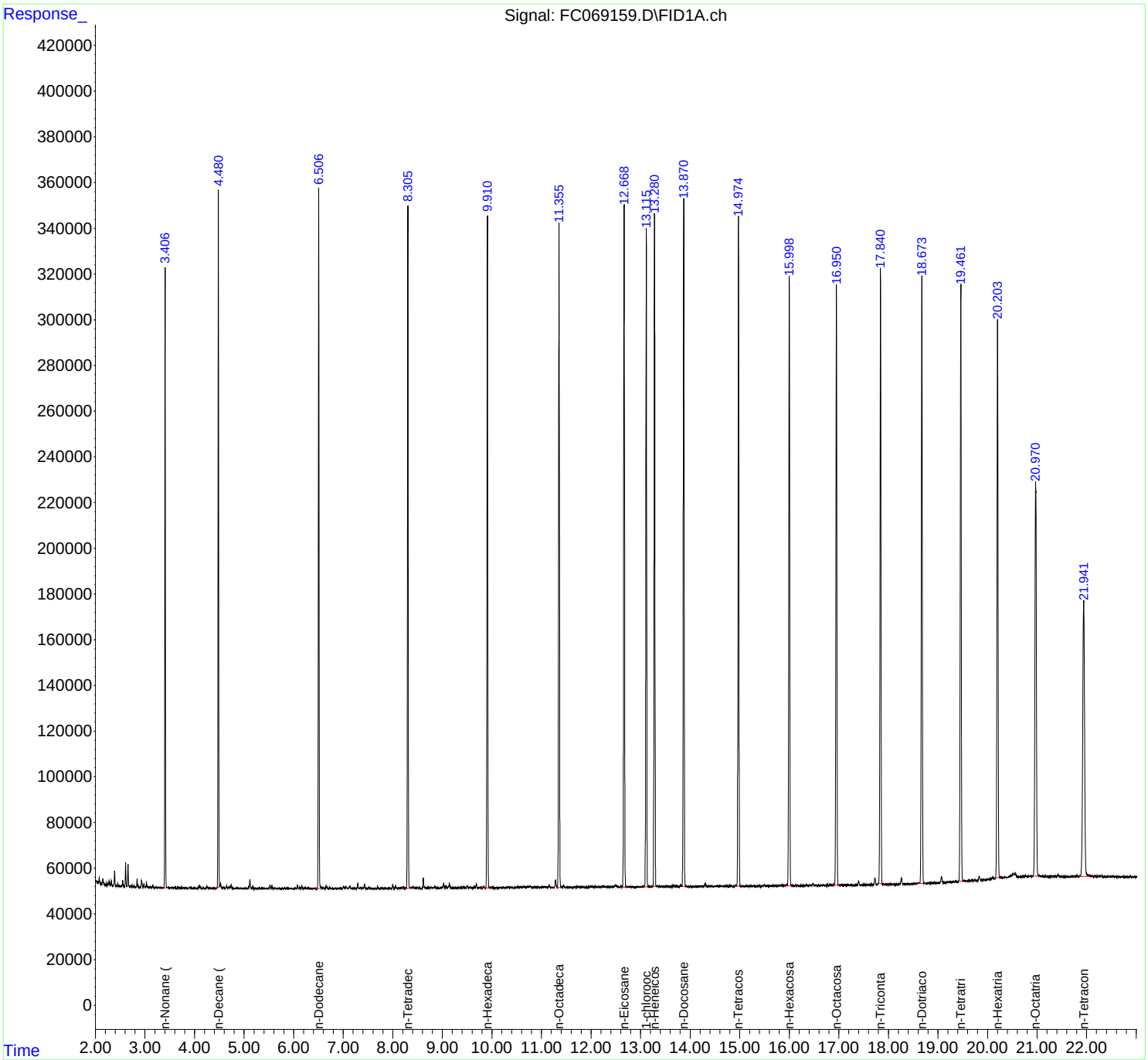
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC061125AL\
Data File : FC069159.D
Signal(s) : FID1A.ch
Acq On : 11 Jun 2025 17:57
Operator : YP/AJ
Sample : PB168408BSD
Misc :
ALS Vial : 13 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Jun 12 06:04:56 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 052425.M
Quant Title : GC Extractables
QLast Update : Tue May 27 01:48:55 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

Instrument :
FID_C
ClientSampleId :
PB168408BSD

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 06/12/2025
Supervised By :mohammad ahmed 06/13/2025



12

Instrument :
FID_C
ClientSampleId :
PB168408BSD

rteres

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 06/12/2025
Supervised By :mohammad ahmed 06/13/2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC06112
Data File : FC069159.D
Signal(s) : FID1A.ch
Acq On : 11 Jun 2025 17:57
Sample : PB168408BSD
Misc :
ALS Vial : 13 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 052425.M
Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.406	3.355	3.457	BB	270640	2259686	60.49%	3.543%
2	4.480	4.425	4.510	BV	304688	2725623	72.97%	4.274%
3	6.506	6.442	6.573	BB	306860	3002002	80.37%	4.707%
4	8.305	8.252	8.368	BB	298267	3089908	82.72%	4.845%
5	9.910	9.788	9.963	BB	294226	3261116	87.30%	5.113%
6	11.355	11.330	11.402	BB	289391	3274806	87.67%	5.135%
7	12.668	12.627	12.720	PB	300038	3588430	96.07%	5.627%
8	13.115	13.055	13.150	BB	287842	3465185	92.77%	5.433%
9	13.282	13.223	13.320	BB	292085	3526278	94.40%	5.529%
10	13.869	13.831	13.908	PB	303197	3548367	94.99%	5.564%
11	14.974	14.885	15.030	BB	293241	3595477	96.25%	5.638%
12	15.999	15.905	16.037	BB	267266	3569762	95.57%	5.597%
13	16.950	16.865	17.005	BB	262631	3570341	95.58%	5.598%
14	17.840	17.800	17.895	BB	269117	3651998	97.77%	5.726%
15	18.674	18.598	18.737	BB	265201	3697035	98.97%	5.797%
16	19.461	19.420	19.508	BB	260286	3735390	100.00%	5.857%
17	20.202	20.160	20.258	BB	242842	3662913	98.06%	5.743%
18	20.972	20.895	21.048	BB	170513	3539927	94.77%	5.550%
19	21.941	21.890	22.048	BB	118535	3012966	80.66%	4.724%
			Sum of corrected areas:			63777209		

Aliphatic EPH 052425.M Thu Jun 12 06:58:19 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD061125AR\
Data File : FD049434.D
Signal(s) : FID2B.ch
Acq On : 11 Jun 2025 17:57
Operator : YP/AJ
Sample : PB168408BSD
Misc :
ALS Vial : 63 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
PB168408BSD

Integration File: autoint1.e
Quant Time: Jun 12 04:59:47 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 052425.M
Quant Title : GC Extractables
QLast Update : Tue May 27 03:11:40 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
4) S	2-Bromonaphthalene (S...	7.732	5575880	33.542 ug/ml
Spiked Amount	50.000		Recovery =	67.08%
6) S	2-Flurobiphenyl (SURR)	8.598	3792496	33.152 ug/ml
Spiked Amount	50.000 Range	0 - 131	Recovery =	66.30%
11) S	ortho-Terphenyl (SURR)	11.643	5678306	28.290 ug/ml
Spiked Amount	50.000		Recovery =	56.58%
	Target Compounds			
1) T	1,2,3-Trimethylbenzen...	4.525	3411733	21.443 ug/ml
2) T	Naphthalene (C11.7)	6.068	4008193	22.828 ug/ml
3) T	2-Methylnaphthalene (...	7.122	3923959	21.965 ug/ml
5) T	Acenaphthylene (C15.06)	8.401	4615942	23.829 ug/ml
7) T	Acenaphthene (C15.5)	8.697	4650906	24.451 ug/ml
8) T	Flouorene (C16.55)	9.478	4894839	25.035 ug/ml
9) T	Phenanthrene (C19.36)	10.877	5044883	26.532 ug/ml
10) T	Anthracene (C19.43)	10.952	4860253	27.801 ug/ml
12) T	Fluoranthene (C21.85)	12.692	5099467	28.271 ug/ml
13) T	Pyrene (C20.8)	12.990	5104528	28.600 ug/ml
14) T	Benzo[a]anthracene (C...	14.863	4803591	31.605 ug/ml
15) T	Chrysene (C27.41)	14.906	5280312	34.772 ug/ml
16) T	benzo[b]fluoranthene ...	16.414	4810805	33.236 ug/ml
17) T	Bnezo[k]fluoranthene ...	16.449	4785489	33.348 ug/ml
18) T	Benzo[a]pyrene (C31.34)	16.794	4627157	34.045 ug/ml
19) T	Indeno[1,2,3-cd]pyren...	18.161	4768815	37.335 ug/ml
20) T	Dibenz[a,h]anthracene...	18.199	4476908	33.255 ug/ml
21) T	Benzo[g,h,i]perylene ...	18.416	4514892	33.497 ug/ml

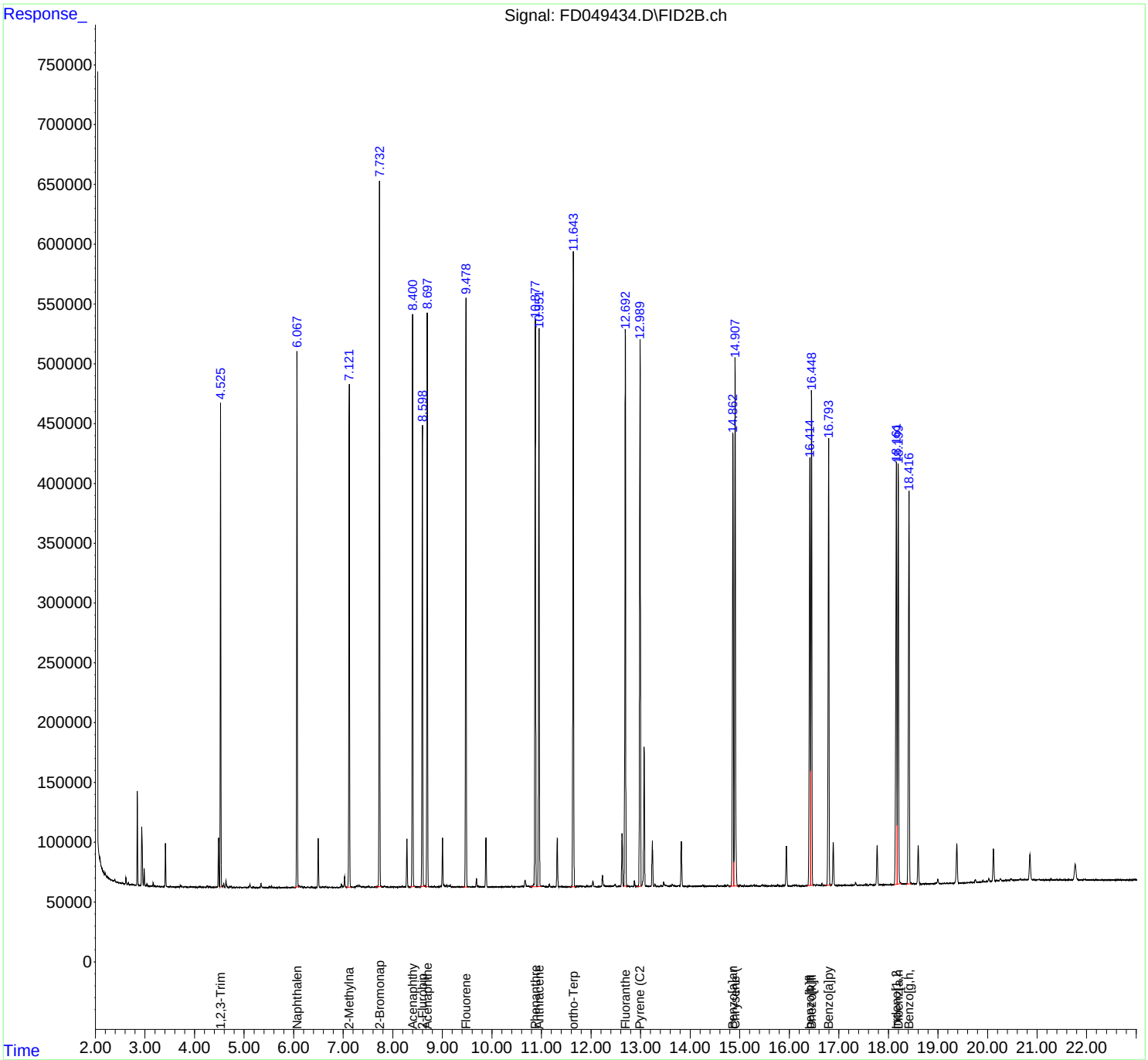
(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD061125AR\
Data File : FD049434.D
Signal(s) : FID2B.ch
Acq On : 11 Jun 2025 17:57
Operator : YP/AJ
Sample : PB168408BSD
Misc :
ALS Vial : 63 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
PB168408BSD

Integration File: autoint1.e
Quant Time: Jun 12 04:59:47 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 052425.M
Quant Title : GC Extractables
QLast Update : Tue May 27 03:11:40 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm



rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD061225AR\
Data File : FD049434.D
Signal(s) : FID2B.ch
Acq On : 11 Jun 2025 17:57
Sample : PB168408BSD
Misc :
ALS Vial : 63 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 052425.M
Title : GC Extractables

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.525	4.503	4.551	VV	404430	3411733	60.08%	3.456%
2	6.068	6.012	6.107	BB	447788	4008193	70.59%	4.060%
3	7.122	7.070	7.160	BB	420101	3923959	69.10%	3.974%
4	7.732	7.645	7.778	BB	588507	5575880	98.20%	5.648%
5	8.401	8.350	8.443	BB	479001	4615942	81.29%	4.675%
6	8.598	8.538	8.640	BB	385737	3792496	66.79%	3.841%
7	8.697	8.647	8.727	BB	479926	4650906	81.91%	4.711%
8	9.478	9.417	9.513	BB	491510	4894839	86.20%	4.958%
9	10.877	10.778	10.915	BV	474293	5044883	88.84%	5.110%
10	10.952	10.915	10.998	PB	466393	4860253	85.59%	4.923%
11	11.643	11.582	11.688	BB	531375	5678306	100.00%	5.751%
12	12.692	12.650	12.732	BB	464799	5099467	89.81%	5.165%
13	12.990	12.932	13.015	BV	457377	5104528	89.90%	5.170%
14	14.863	14.797	14.882	BV	378192	4803591	84.60%	4.865%
15	14.906	14.882	14.963	VB	441990	5280312	92.99%	5.348%
16	16.414	16.350	16.429	BV	357432	4810805	84.72%	4.873%
17	16.449	16.429	16.483	VB	413478	4785489	84.28%	4.847%
18	16.794	16.732	16.837	BB	373242	4627157	81.49%	4.687%
19	18.161	18.110	18.176	BV	352299	4768815	83.98%	4.830%
20	18.199	18.176	18.255	VB	352003	4476908	78.84%	4.535%
21	18.416	18.352	18.465	BB	328881	4514892	79.51%	4.573%
			Sum of corrected areas:			98729354		

Aromatic EPH 052425.M Thu Jun 12 05:41:18 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC061125AL\
Data File : FC069165.D
Signal(s) : FID1A.ch
Acq On : 11 Jun 2025 22:09
Operator : YP/AJ
Sample : Q2177-02MS
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
B-187-SB01MS

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 06/12/2025
Supervised By :mohammad ahmed 06/13/2025

Integration File: autoint1.e
Quant Time: Jun 12 06:06:34 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 052425.M
Quant Title : GC Extractables
QLast Update : Tue May 27 01:48:55 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
12) S	1-chlorooctadecane (S...	13.118	6218026	69.309 ug/ml
Spiked Amount	50.000		Recovery =	138.62%
	Target Compounds			
1) T	n-Nonane (C9)	3.404	2188921	20.626 ug/ml
2) T	n-Decane (C10)	4.479	2684592	25.349 ug/mlm
4) T	n-Dodecane (C12)	6.507	3278980	31.192 ug/ml
6) T	n-Tetradecane (C14)	8.308	3646211	35.572 ug/ml
7) T	n-Hexadecane (C16)	9.912	3471433	34.212 ug/ml
8) T	n-Octadecane (C18)	11.357	3441548	34.435 ug/ml
10) T	n-Eicosane (C20)	12.669	3494770	35.881 ug/ml
11) T	n-Heneicosane (C21)	13.283	3333560	34.633 ug/ml
13) T	n-Docosane (C22)	13.869	3315435	34.801 ug/ml
14) T	n-Tetracosane (C24)	14.975	3310877	35.165 ug/ml
15) T	n-Hexacosane (C26)	15.998	3253315	35.042 ug/ml
16) T	n-Octacosane (C28)	16.950	3224546	34.690 ug/ml
17) T	n-Tricontane (C30)	17.839	3233820	33.422 ug/ml
18) T	n-Dotriacontane (C32)	18.673	3264137	32.938 ug/ml
19) T	n-Tetratriacontane (C34)	19.459	3307215	34.315 ug/ml
20) T	n-Hexatriacontane (C36)	20.201	3214033	33.857 ug/ml
21) T	n-Octatriacontane (C38)	20.969	3075733	33.712 ug/ml
22) T	n-Tetracontane (C40)	21.936	2660293	30.150 ug/mlm

(f)=RT Delta > 1/2 Window (m)=manual int.

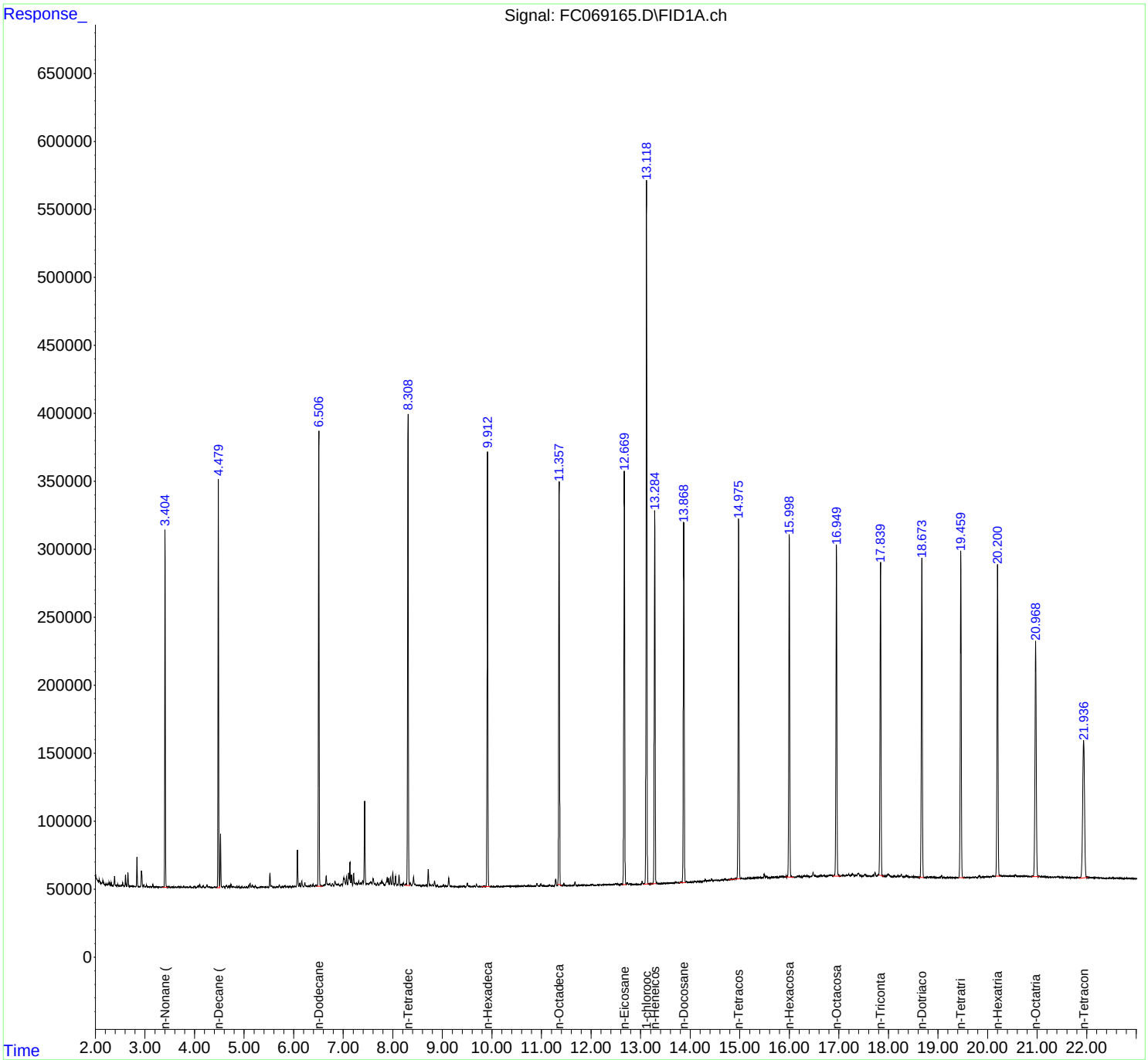
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC061125AL\
Data File : FC069165.D
Signal(s) : FID1A.ch
Acq On : 11 Jun 2025 22:09
Operator : YP/AJ
Sample : Q2177-02MS
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
B-187-SB01MS

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 06/12/2025
Supervised By :mohammad ahmed 06/13/2025

Integration File: autoint1.e
Quant Time: Jun 12 06:06:34 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 052425.M
Quant Title : GC Extractables
QLast Update : Tue May 27 01:48:55 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um



12

Instrument :
FID_C
ClientSampleId :
B-187-SB01MS

rteres

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 06/12/2025
Supervised By :mohammad ahmed 06/13/2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC06112
Data File : FC069165.D
Signal(s) : FID1A.ch
Acq On : 11 Jun 2025 22:09
Sample : Q2177-02MS
Misc :
ALS Vial : 19 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 052425.M
Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.229	3.204	3.274	BV	192	3866	0.06%	0.004%
2	3.297	3.274	3.322	VV	207	2307	0.04%	0.003%
3	3.331	3.322	3.371	PV	80	1417	0.02%	0.002%
4	3.404	3.371	3.511	VV	262390	2198132	35.07%	2.533%
5	3.534	3.511	3.571	VV	277	5207	0.08%	0.006%
6	3.608	3.571	3.632	VV	406	6389	0.10%	0.007%
7	3.683	3.632	3.704	PV	646	12875	0.21%	0.015%
8	3.733	3.704	3.757	VV	588	9256	0.15%	0.011%
9	3.782	3.757	3.832	VV	876	15252	0.24%	0.018%
10	3.851	3.832	3.871	VV	328	5095	0.08%	0.006%
11	3.878	3.871	3.888	VV	122	1047	0.02%	0.001%
12	3.904	3.888	3.942	VV	747	10848	0.17%	0.012%
13	3.954	3.942	3.968	VV	234	2047	0.03%	0.002%
14	3.991	3.968	4.041	VV	662	14329	0.23%	0.017%
15	4.078	4.041	4.092	VV	1751	22085	0.35%	0.025%
16	4.107	4.092	4.126	VV	2388	22447	0.36%	0.026%
17	4.141	4.126	4.155	VV	475	5291	0.08%	0.006%
18	4.175	4.155	4.198	VV	1723	17515	0.28%	0.020%
19	4.247	4.198	4.275	VV	1361	27156	0.43%	0.031%
20	4.288	4.275	4.366	VV	605	14526	0.23%	0.017%
21	4.398	4.366	4.414	PV	399	6587	0.11%	0.008%
22	4.434	4.414	4.450	VV	413	5121	0.08%	0.006%
23	4.480	4.450	4.505	VV	300087	2683790	42.82%	3.092%
24	4.524	4.505	4.568	VV	39526	359419	5.73%	0.414%
25	4.586	4.568	4.613	VV	1205	16785	0.27%	0.019%
26	4.634	4.613	4.670	VV	1532	30047	0.48%	0.035%
27	4.684	4.670	4.693	VV	723	7816	0.12%	0.009%
28	4.706	4.693	4.721	VV	1150	12210	0.19%	0.014%
29	4.735	4.721	4.753	VV	2673	24726	0.39%	0.028%
30	4.767	4.753	4.779	VV	1002	10081	0.16%	0.012%
31	4.789	4.779	4.805	VV	734	8980	0.14%	0.010%
32	4.814	4.805	4.828	VV	570	5480	0.09%	0.006%
33	4.856	4.828	4.874	VV	830	11835	0.19%	0.014%
34	4.897	4.874	4.917	VV	755	10730	0.17%	0.012%
35	4.931	4.917	4.948	VV	314	4680	0.07%	0.005%
36	4.960	4.948	4.982	VV	711	7467	0.12%	0.009%

12

Instrument :
FID_C
ClientSampleId :
B-187-SB01MS

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 06/12/2025
Supervised By :mohammad ahmed 06/13/2025

A B C D E F G H I J

rteres

37	5.005	4.982	5.020	VV	372	5098	0.08%	0.006%
38	5.038	5.020	5.068	VV	530	8334	0	
39	5.092	5.068	5.103	VV	1696	16751	0	
40	5.120	5.103	5.143	VV	3184	38049	0	
41	5.162	5.143	5.191	VV	1887	26955	0	
42	5.225	5.191	5.267	VV	1731	26709	0	
43	5.280	5.267	5.300	PV	200	3284	0.05%	0.004%
44	5.325	5.300	5.378	VV	779	19076	0.30%	0.022%
45	5.387	5.378	5.404	VV	504	6960	0.11%	0.008%
46	5.417	5.404	5.430	VV	548	6216	0.10%	0.007%
47	5.446	5.430	5.497	VV	454	13866	0.22%	0.016%
48	5.521	5.497	5.542	VV	10920	110153	1.76%	0.127%
49	5.553	5.542	5.580	VV	1377	22341	0.36%	0.026%
50	5.593	5.580	5.608	VV	518	6485	0.10%	0.007%
51	5.619	5.608	5.638	VV	398	5920	0.09%	0.007%
52	5.711	5.638	5.751	VV	2044	43535	0.69%	0.050%
53	5.770	5.751	5.785	VV	721	11227	0.18%	0.013%
54	5.823	5.785	5.854	VV	1456	34514	0.55%	0.040%
55	5.871	5.854	5.903	VV	1016	17164	0.27%	0.020%
56	5.922	5.903	5.958	VV	1069	20820	0.33%	0.024%
57	5.977	5.958	6.008	VV	1099	18092	0.29%	0.021%
58	6.026	6.008	6.047	VV	1129	18480	0.29%	0.021%
59	6.076	6.047	6.104	VV	27613	289700	4.62%	0.334%
60	6.122	6.104	6.143	VV	3280	42962	0.69%	0.050%
61	6.164	6.143	6.196	VV	4698	64662	1.03%	0.075%
62	6.226	6.196	6.247	VV	3720	53135	0.85%	0.061%
63	6.264	6.247	6.288	VV	1237	25118	0.40%	0.029%
64	6.318	6.288	6.327	VV	1138	24673	0.39%	0.028%
65	6.345	6.327	6.369	VV	1950	33066	0.53%	0.038%
66	6.389	6.369	6.418	VV	2064	37048	0.59%	0.043%
67	6.442	6.418	6.457	VV	1718	30013	0.48%	0.035%
68	6.469	6.457	6.475	VV	1332	12557	0.20%	0.014%
69	6.507	6.475	6.561	VV	335762	3320385	52.97%	3.826%
70	6.569	6.561	6.588	VV	1315	18418	0.29%	0.021%
71	6.623	6.588	6.635	VV	2023	46280	0.74%	0.053%
72	6.656	6.635	6.679	VV	8441	113683	1.81%	0.131%
73	6.689	6.679	6.713	VV	2505	45984	0.73%	0.053%
74	6.728	6.713	6.759	VV	2984	52727	0.84%	0.061%
75	6.782	6.759	6.808	VV	2866	54884	0.88%	0.063%
76	6.834	6.808	6.859	VV	4663	84739	1.35%	0.098%
77	6.868	6.859	6.880	VV	2134	24797	0.40%	0.029%
78	6.900	6.880	6.934	VV	2345	57892	0.92%	0.067%
79	6.967	6.934	6.985	VV	2654	62097	0.99%	0.072%
80	7.009	6.985	7.048	VV	7091	175250	2.80%	0.202%
81	7.067	7.048	7.090	VV	7965	111199	1.77%	0.128%
82	7.110	7.090	7.120	VV	10500	118477	1.89%	0.137%
83	7.135	7.120	7.154	VV	18560	211714	3.38%	0.244%
84	7.168	7.154	7.189	VV	9308	113562	1.81%	0.131%
85	7.210	7.189	7.252	VV	10135	164269	2.62%	0.189%
86	7.268	7.252	7.282	VV	3541	50093	0.80%	0.058%
87	7.313	7.282	7.334	VV	4476	94690	1.51%	0.109%
88	7.357	7.334	7.374	VV	3056	63602	1.01%	0.073%
89	7.394	7.374	7.411	VV	4949	80849	1.29%	0.093%

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90	7.433	7.411	7.465	VV	63536	704472	11.24%	0.812%
91	7.485	7.465	7.509	VV	2790	63684	1	
92	7.554	7.509	7.581	VV	4146	139562	2	
93	7.605	7.581	7.632	VV	6485	128769	2	
94	7.645	7.632	7.669	VV	2849	49220	0	
95	7.692	7.669	7.717	VV	3410	65197	1	
96	7.747	7.717	7.758	VV	3262	61643	0.98%	0.071%
97	7.776	7.758	7.792	VV	4734	74083	1.18%	0.085%
98	7.800	7.792	7.836	VV	3165	60881	0.97%	0.070%
99	7.887	7.836	7.901	VV	7126	149898	2.39%	0.173%
100	7.913	7.901	7.933	VV	6377	80447	1.28%	0.093%
101	7.955	7.933	7.977	VV	7393	104272	1.66%	0.120%
102	8.001	7.977	8.034	VV	10772	162805	2.60%	0.188%
103	8.057	8.034	8.080	VV	8028	111278	1.78%	0.128%
104	8.096	8.080	8.108	VV	1923	28374	0.45%	0.033%
105	8.127	8.108	8.150	VV	8780	114845	1.83%	0.132%
106	8.165	8.150	8.197	VV	2060	52567	0.84%	0.061%
107	8.217	8.197	8.237	VV	2774	49332	0.79%	0.057%
108	8.262	8.237	8.274	VV	2014	40859	0.65%	0.047%
109	8.308	8.274	8.340	VV	346983	3684506	58.78%	4.245%
110	8.355	8.340	8.378	VV	2742	44618	0.71%	0.051%
111	8.420	8.378	8.441	VV	7459	125100	2.00%	0.144%
112	8.451	8.441	8.484	VV	2198	41781	0.67%	0.048%
113	8.497	8.484	8.524	VV	1580	31246	0.50%	0.036%
114	8.543	8.524	8.569	VV	1296	27701	0.44%	0.032%
115	8.618	8.569	8.647	VV	1379	48328	0.77%	0.056%
116	8.668	8.647	8.694	VV	1598	31911	0.51%	0.037%
117	8.717	8.694	8.742	VV	13137	154712	2.47%	0.178%
118	8.754	8.742	8.780	VV	1774	29627	0.47%	0.034%
119	8.798	8.780	8.820	VV	1926	29977	0.48%	0.035%
120	8.844	8.820	8.876	VV	4407	66257	1.06%	0.076%
121	8.896	8.876	8.951	VV	1588	29674	0.47%	0.034%
122	8.962	8.951	8.981	VV	499	7348	0.12%	0.008%
123	9.027	8.981	9.051	VV	1262	30357	0.48%	0.035%
124	9.068	9.051	9.104	VV	688	17546	0.28%	0.020%
125	9.130	9.104	9.178	VV	6598	92057	1.47%	0.106%
126	9.216	9.197	9.238	VV	472	8509	0.14%	0.010%
127	9.269	9.238	9.301	VV	337	8118	0.13%	0.009%
128	9.312	9.301	9.328	VV	233	3112	0.05%	0.004%
129	9.371	9.328	9.401	VV	378	9663	0.15%	0.011%
130	9.430	9.401	9.478	VV	484	9944	0.16%	0.011%
131	9.504	9.478	9.535	PV	2749	38248	0.61%	0.044%
132	9.548	9.535	9.573	VV	590	8213	0.13%	0.009%
133	9.593	9.573	9.614	VV	315	4961	0.08%	0.006%
134	9.639	9.614	9.667	VV	515	10251	0.16%	0.012%
135	9.690	9.667	9.730	VV	1819	23059	0.37%	0.027%
136	9.750	9.730	9.762	VV	167	2627	0.04%	0.003%
137	9.773	9.762	9.805	VV	170	2518	0.04%	0.003%
138	9.829	9.805	9.873	VV	453	9091	0.15%	0.010%
139	9.912	9.873	9.968	VV	316144	3472582	55.40%	4.001%
140	9.985	9.968	10.038	VV	183	5706	0.09%	0.007%
141	10.085	10.038	10.114	VV	208	4262	0.07%	0.005%

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142	10.132	10.114	10.176	VV	148	3455	0.06%	0.004%
143	10.189	10.176	10.211	VV	127	1841	[illegible]	
144	10.301	10.211	10.328	VV	420	14122	[illegible]	
145	10.346	10.328	10.364	VV	260	4306	[illegible]	
146	10.398	10.364	10.439	VV	316	8393	[illegible]	
147	10.449	10.439	10.483	VV	200	3009	[illegible]	
148	10.550	10.483	10.568	PV	267	8689	0.14%	0.010%
149	10.578	10.568	10.614	VV	305	7067	0.11%	0.008%
150	10.652	10.614	10.684	VV	777	15456	0.25%	0.018%
151	10.718	10.684	10.734	VV	439	10218	0.16%	0.012%
152	10.747	10.734	10.767	VV	541	8587	0.14%	0.010%
153	10.783	10.767	10.808	VV	500	7328	0.12%	0.008%
154	10.827	10.808	10.861	VV	259	5802	0.09%	0.007%
155	10.870	10.861	10.880	VV	262	2111	0.03%	0.002%
156	10.909	10.880	10.947	VV	2102	28204	0.45%	0.032%
157	10.985	10.947	11.009	VV	1926	26912	0.43%	0.031%
158	11.025	11.009	11.061	VV	407	7197	0.11%	0.008%
159	11.077	11.061	11.094	VV	231	3475	0.06%	0.004%
160	11.103	11.094	11.128	VV	192	2302	0.04%	0.003%
161	11.159	11.128	11.194	VV	859	11620	0.19%	0.013%
162	11.216	11.194	11.227	VV	193	2363	0.04%	0.003%
163	11.286	11.227	11.321	VV	5115	70824	1.13%	0.082%
164	11.357	11.321	11.413	VV	298500	3483455	55.58%	4.014%
165	11.451	11.413	11.478	VV	1597	23946	0.38%	0.028%
166	11.488	11.478	11.495	VV	164	1568	0.03%	0.002%
167	11.506	11.495	11.521	VV	218	2517	0.04%	0.003%
168	11.555	11.521	11.564	VV	183	2957	0.05%	0.003%
169	11.583	11.564	11.609	VV	227	3805	0.06%	0.004%
170	11.676	11.609	11.726	PV	3009	42738	0.68%	0.049%
171	11.753	11.726	11.798	VV	405	11529	0.18%	0.013%
172	11.812	11.798	11.851	VV	597	11739	0.19%	0.014%
173	11.867	11.851	11.918	VV	419	10038	0.16%	0.012%
174	12.025	11.918	12.064	VV	866	33527	0.53%	0.039%
175	12.069	12.064	12.104	VV	357	5840	0.09%	0.007%
176	12.129	12.104	12.158	VV	347	9819	0.16%	0.011%
177	12.182	12.158	12.210	VV	345	8983	0.14%	0.010%
178	12.247	12.210	12.278	VV	473	13945	0.22%	0.016%
179	12.298	12.278	12.332	VV	594	13855	0.22%	0.016%
180	12.360	12.332	12.381	VV	615	13325	0.21%	0.015%
181	12.403	12.381	12.419	VV	565	9441	0.15%	0.011%
182	12.489	12.419	12.511	VV	1150	36807	0.59%	0.042%
183	12.531	12.511	12.565	VV	866	17799	0.28%	0.021%
184	12.576	12.565	12.584	VV	289	2881	0.05%	0.003%
185	12.607	12.584	12.631	VV	1188	19419	0.31%	0.022%
186	12.669	12.631	12.708	VV	301612	3512218	56.03%	4.047%
187	12.731	12.708	12.765	VV	1810	33515	0.53%	0.039%
188	12.788	12.765	12.814	VV	1006	19399	0.31%	0.022%
189	12.828	12.814	12.854	VV	424	9062	0.14%	0.010%
190	12.868	12.854	12.879	VV	387	5140	0.08%	0.006%
191	12.924	12.879	12.988	VV	545	27827	0.44%	0.032%
192	13.030	12.988	13.054	VV	2575	42158	0.67%	0.049%
193	13.118	13.054	13.204	VV	520671	6267969	100.00%	7.222%
194	13.223	13.204	13.244	VV	928	17233	0.27%	0.020%

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195	13.283	13.244	13.317	VV	279805	3365531	53.69%	3.878%
196	13.332	13.317	13.355	VV	1208	22237		
197	13.378	13.355	13.389	VV	800	14914		
198	13.405	13.389	13.430	VV	766	17025		
199	13.456	13.430	13.488	VV	984	26962		
200	13.506	13.488	13.526	VV	949	19209		
201	13.560	13.526	13.581	VV	1096	31084	0.50%	0.036%
202	13.587	13.581	13.618	VV	972	20481	0.33%	0.024%
203	13.626	13.618	13.640	VV	1057	13150	0.21%	0.015%
204	13.662	13.640	13.679	VV	1300	25747	0.41%	0.030%
205	13.712	13.679	13.762	VV	1670	60708	0.97%	0.070%
206	13.785	13.762	13.793	VV	1174	20786	0.33%	0.024%
207	13.818	13.793	13.833	VV	1872	36663	0.58%	0.042%
208	13.869	13.833	13.911	VV	269031	3367354	53.72%	3.880%
209	13.929	13.911	13.951	VV	1866	37332	0.60%	0.043%
210	13.964	13.951	13.979	VV	1492	22753	0.36%	0.026%
211	14.093	13.979	14.126	VV	2197	142542	2.27%	0.164%
212	14.181	14.126	14.194	VV	1876	71800	1.15%	0.083%
213	14.203	14.194	14.217	VV	1828	24141	0.39%	0.028%
214	14.232	14.217	14.248	VV	1902	32839	0.52%	0.038%
215	14.304	14.248	14.364	VV	3374	164134	2.62%	0.189%
216	14.386	14.364	14.409	VV	3013	68034	1.09%	0.078%
217	14.432	14.409	14.467	VV	3401	92747	1.48%	0.107%
218	14.504	14.467	14.542	VV	2699	114152	1.82%	0.132%
219	14.555	14.542	14.573	VV	2749	48139	0.77%	0.055%
220	14.585	14.573	14.603	VV	2595	45499	0.73%	0.052%
221	14.635	14.603	14.674	VV	2966	116123	1.85%	0.134%
222	14.694	14.674	14.771	VV	3633	175218	2.80%	0.202%
223	14.828	14.771	14.848	VV	3444	140178	2.24%	0.162%
224	14.913	14.848	14.924	VV	4032	160215	2.56%	0.185%
225	14.975	14.924	15.014	VV	267341	3474322	55.43%	4.003%
226	15.037	15.014	15.061	VV	3801	103479	1.65%	0.119%
227	15.075	15.061	15.091	VV	3588	61629	0.98%	0.071%
228	15.113	15.091	15.127	VV	3595	74535	1.19%	0.086%
229	15.170	15.127	15.195	VV	3951	149965	2.39%	0.173%
230	15.213	15.195	15.235	VV	3900	89356	1.43%	0.103%
231	15.253	15.235	15.265	VV	3799	67197	1.07%	0.077%
232	15.309	15.265	15.339	VV	4175	175631	2.80%	0.202%
233	15.354	15.339	15.386	VV	4243	114108	1.82%	0.131%
234	15.402	15.386	15.414	VV	4261	71097	1.13%	0.082%
235	15.425	15.414	15.455	VV	4288	99243	1.58%	0.114%
236	15.494	15.455	15.524	VV	6634	201510	3.21%	0.232%
237	15.541	15.524	15.621	VV	4762	237500	3.79%	0.274%
238	15.635	15.621	15.647	VV	4225	61155	0.98%	0.070%
239	15.676	15.647	15.684	VV	4367	94163	1.50%	0.109%
240	15.692	15.684	15.700	VV	4222	38651	0.62%	0.045%
241	15.720	15.700	15.739	VV	4425	101428	1.62%	0.117%
242	15.755	15.739	15.784	VV	4413	115326	1.84%	0.133%
243	15.814	15.784	15.838	VV	4755	142352	2.27%	0.164%
244	15.870	15.838	15.885	VV	4733	127769	2.04%	0.147%
245	15.898	15.885	15.909	VV	4565	63470	1.01%	0.073%
246	15.925	15.909	15.950	VV	4429	109077	1.74%	0.126%

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247	15.998	15.950	16.113	VV	255272	3655814	58.33%	4.212%
248	16.124	16.113	16.139	VV	4216	63409		
249	16.167	16.139	16.198	VV	4753	159922		
250	16.211	16.198	16.238	VV	4837	108508		
251	16.249	16.238	16.261	VV	4435	60898		
252	16.305	16.261	16.323	VV	4997	171958		
253	16.336	16.323	16.345	VV	4836	62096	0.99%	0.072%
254	16.357	16.345	16.420	VV	5114	208283	3.32%	0.240%
255	16.478	16.420	16.558	VV	7372	414237	6.61%	0.477%
256	16.585	16.558	16.594	VV	4567	96364	1.54%	0.111%
257	16.642	16.594	16.670	VV	5275	219225	3.50%	0.253%
258	16.687	16.670	16.741	VV	4978	203874	3.25%	0.235%
259	16.756	16.741	16.772	VV	4869	86318	1.38%	0.099%
260	16.824	16.772	16.885	VV	5317	333129	5.31%	0.384%
261	16.950	16.885	17.025	VV	245544	3598250	57.41%	4.146%
262	17.033	17.025	17.047	VV	4710	58331	0.93%	0.067%
263	17.066	17.047	17.101	VV	4922	154228	2.46%	0.178%
264	17.108	17.101	17.134	VV	4758	92697	1.48%	0.107%
265	17.162	17.134	17.170	VV	4926	102643	1.64%	0.118%
266	17.200	17.170	17.247	VV	5549	227553	3.63%	0.262%
267	17.272	17.247	17.311	VV	5864	201276	3.21%	0.232%
268	17.328	17.311	17.348	VV	4721	102774	1.64%	0.118%
269	17.400	17.348	17.424	VV	6341	243081	3.88%	0.280%
270	17.438	17.424	17.474	VV	4611	130947	2.09%	0.151%
271	17.482	17.474	17.487	VV	4263	32979	0.53%	0.038%
272	17.523	17.487	17.595	VV	5306	298494	4.76%	0.344%
273	17.610	17.595	17.646	VV	4387	130027	2.07%	0.150%
274	17.728	17.646	17.774	VV	6852	357677	5.71%	0.412%
275	17.839	17.774	17.920	VV	234136	3612101	57.63%	4.162%
276	17.931	17.920	17.947	VV	3954	61607	0.98%	0.071%
277	17.991	17.947	18.055	VV	5242	280435	4.47%	0.323%
278	18.063	18.055	18.077	VV	3611	47272	0.75%	0.054%
279	18.096	18.077	18.105	VV	3792	59097	0.94%	0.068%
280	18.120	18.105	18.138	VV	3810	72283	1.15%	0.083%
281	18.154	18.138	18.175	VV	3623	78922	1.26%	0.091%
282	18.197	18.175	18.211	VV	3908	79154	1.26%	0.091%
283	18.225	18.211	18.237	VV	3895	58647	0.94%	0.068%
284	18.261	18.237	18.301	VV	5163	148341	2.37%	0.171%
285	18.311	18.301	18.341	VV	3435	80532	1.28%	0.093%
286	18.361	18.341	18.461	VV	4070	241528	3.85%	0.278%
287	18.484	18.461	18.501	VV	3217	73173	1.17%	0.084%
288	18.512	18.501	18.562	VV	3191	109941	1.75%	0.127%
289	18.573	18.562	18.628	VV	2955	108270	1.73%	0.125%
290	18.673	18.628	18.732	VV	234651	3423787	54.62%	3.945%
291	18.740	18.732	18.764	VV	2641	48177	0.77%	0.056%
292	18.792	18.764	18.811	VV	2832	72943	1.16%	0.084%
293	18.834	18.811	18.853	VV	2892	68377	1.09%	0.079%
294	18.867	18.853	18.895	VV	2935	66280	1.06%	0.076%
295	18.915	18.895	18.948	VV	2547	76999	1.23%	0.089%
296	18.961	18.948	19.015	VV	2487	89812	1.43%	0.103%
297	19.070	19.015	19.100	VV	3640	131805	2.10%	0.152%
298	19.117	19.100	19.152	VV	2358	68393	1.09%	0.079%
299	19.178	19.152	19.228	VV	2302	96881	1.55%	0.112%

12

Instrument :
FID_C
ClientSampleId :
B-187-SB01MS

rteres

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 06/12/2025
Supervised By :mohammad ahmed 06/13/2025

300	19.245	19.228	19.286	VV	2249	74206	1.18%	0.086%
301	19.302	19.286	19.323	VV	2236	45920		
302	19.334	19.323	19.361	VV	2128	45343		
303	19.374	19.361	19.412	VV	2120	59766		
304	19.459	19.412	19.557	VV	240667	3474999	55	
305	19.585	19.557	19.607	VV	2209	61631		
306	19.619	19.607	19.635	VV	2149	34717	0.55%	0.040%
307	19.646	19.635	19.655	VV	2111	23656	0.38%	0.027%
308	19.662	19.655	19.668	VV	2088	15933	0.25%	0.018%
309	19.698	19.668	19.721	VV	2247	68616	1.09%	0.079%
310	19.739	19.721	19.798	VV	2262	97422	1.55%	0.112%
311	19.834	19.798	19.858	VV	3131	91800	1.46%	0.106%
312	19.874	19.858	19.896	VV	2258	48827	0.78%	0.056%
313	19.905	19.896	19.921	VV	2221	33645	0.54%	0.039%
314	19.938	19.921	19.949	VV	2327	37203	0.59%	0.043%
315	19.962	19.949	19.973	VV	2365	33473	0.53%	0.039%
316	19.989	19.973	20.002	VV	2483	40184	0.64%	0.046%
317	20.015	20.002	20.032	VV	2433	41467	0.66%	0.048%
318	20.063	20.032	20.073	VV	2468	59406	0.95%	0.068%
319	20.106	20.073	20.134	VV	2864	95734	1.53%	0.110%
320	20.201	20.134	20.260	VV	231359	3418291	54.54%	3.939%
321	20.273	20.260	20.315	VV	3047	94966	1.52%	0.109%
322	20.334	20.315	20.368	VV	2888	89139	1.42%	0.103%
323	20.375	20.368	20.401	VV	2892	56197	0.90%	0.065%
324	20.406	20.401	20.431	VV	2817	49516	0.79%	0.057%
325	20.458	20.431	20.484	VV	2803	87491	1.40%	0.101%
326	20.493	20.484	20.523	VV	2737	61131	0.98%	0.070%
327	20.562	20.523	20.612	VV	3453	146497	2.34%	0.169%
328	20.629	20.612	20.654	VV	2547	61451	0.98%	0.071%
329	20.684	20.654	20.696	VV	2510	60915	0.97%	0.070%
330	20.714	20.696	20.728	VV	2522	47432	0.76%	0.055%
331	20.738	20.728	20.774	VV	2470	66841	1.07%	0.077%
332	20.784	20.774	20.814	VV	2405	55631	0.89%	0.064%
333	20.824	20.814	20.833	VV	2271	24139	0.39%	0.028%
334	20.840	20.833	20.861	VV	2272	37629	0.60%	0.043%
335	20.867	20.861	20.891	VV	2200	37027	0.59%	0.043%
336	20.969	20.891	21.058	VV	175198	3277044	52.28%	3.776%
337	21.065	21.058	21.096	VV	2110	45765	0.73%	0.053%
338	21.105	21.096	21.184	VV	1864	96043	1.53%	0.111%
339	21.194	21.184	21.248	VV	1749	60410	0.96%	0.070%
340	21.261	21.248	21.344	VV	1521	81641	1.30%	0.094%
341	21.417	21.344	21.494	VV	1938	127927	2.04%	0.147%
342	21.503	21.494	21.549	VV	1287	40445	0.65%	0.047%
343	21.560	21.549	21.590	VV	1319	29122	0.46%	0.034%
344	21.604	21.590	21.651	VV	1124	38304	0.61%	0.044%
345	21.657	21.651	21.761	VV	1004	57619	0.92%	0.066%
346	21.803	21.761	21.854	VV	916	45346	0.72%	0.052%
347	21.938	21.854	22.064	VV	101314	2740903	43.73%	3.158%
348	22.071	22.064	22.116	VV	854	20232	0.32%	0.023%
349	22.128	22.116	22.161	VV	616	14369	0.23%	0.017%
350	22.189	22.161	22.217	VV	592	16078	0.26%	0.019%
351	22.233	22.217	22.281	VV	493	15762	0.25%	0.018%

12

Instrument :
FID_C
ClientSampleId :
B-187-SB01MS

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 06/12/2025
Supervised By :mohammad ahmed 06/13/2025

A B C D E F G H I J

rteres

352	22.289	22.281	22.361	VV	404	11986	0.19%	0.014%
353	22.371	22.361	22.417	VV	171	3173		
354	22.426	22.417	22.439	PV	70	447		

Sum of corrected areas: 867

Aliphatic EPH 052425.M Thu Jun 12 07:04:23 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD061325AR\
Data File : FD049484.D
Signal(s) : FID2B.ch
Acq On : 13 Jun 2025 09:48
Operator : YP/AJ
Sample : Q2177-02MS
Misc :
ALS Vial : 63 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
B-187-SB01MS

Integration File: autoint1.e
Quant Time: Jun 13 21:19:57 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 052425.M
Quant Title : GC Extractables
QLast Update : Tue May 27 03:11:40 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
4) S	2-Bromonaphthalene (S...	7.733	6278432	37.769 ug/ml
Spiked Amount	50.000		Recovery =	75.54%
6) S	2-Flurobiphenyl (SURR)	8.598	4233429	37.006 ug/ml
Spiked Amount	50.000 Range	0 - 131	Recovery =	74.01%
11) S	ortho-Terphenyl (SURR)	11.644	6518438	32.475 ug/ml
Spiked Amount	50.000		Recovery =	64.95%
	Target Compounds			
1) T	1,2,3-Trimethylbenzen...	4.522	2028339	12.748 ug/ml
2) T	Naphthalene (C11.7)	6.066	2506308	14.274 ug/ml
3) T	2-Methylnaphthalene (...	7.120	2576852	14.424 ug/ml
5) T	Acenaphthylene (C15.06)	8.399	3018456	15.582 ug/ml
7) T	Acenaphthene (C15.5)	8.696	3122059	16.413 ug/ml
8) T	Flouorene (C16.55)	9.476	3285254	16.803 ug/ml
9) T	Phenanthrene (C19.36)	10.875	3591192	18.887 ug/ml
10) T	Anthracene (C19.43)	10.949	3220864	18.424 ug/ml
12) T	Fluoranthene (C21.85)	12.689	3643400	20.199 ug/ml
13) T	Pyrene (C20.8)	12.988	3552754	19.905 ug/ml
14) T	Benzo[a]anthracene (C...	14.859	3088305	20.319 ug/ml
15) T	Chrysene (C27.41)	14.901	3380823	22.263 ug/ml
16) T	benzo[b]fluoranthene ...	16.410	3013552	20.819 ug/ml
17) T	Bnezo[k]fluoranthene ...	16.443	2894814	20.173 ug/ml
18) T	Benzo[a]pyrene (C31.34)	16.789	2856949	21.020 ug/ml
19) T	Indeno[1,2,3-cd]pyren...	18.155	2925066	22.900 ug/ml
20) T	Dibenz[a,h]anthracene...	18.194	2748005	20.412 ug/ml
21) T	Benzo[g,h,i]perylene ...	18.409	2710958	20.113 ug/ml

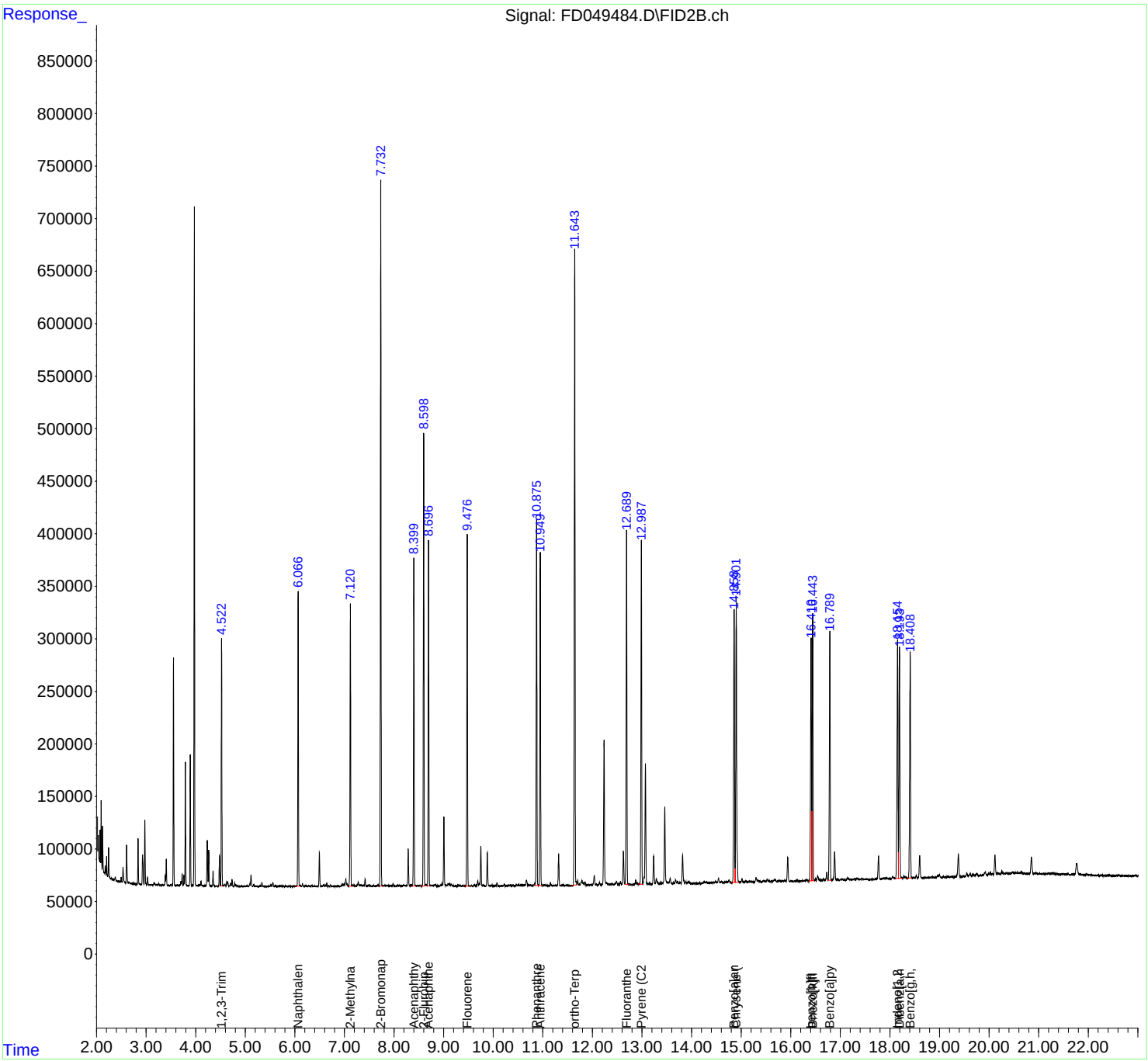
(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD061325AR\
Data File : FD049484.D
Signal(s) : FID2B.ch
Acq On : 13 Jun 2025 09:48
Operator : YP/AJ
Sample : Q2177-02MS
Misc :
ALS Vial : 63 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
B-187-SB01MS

Integration File: autoint1.e
Quant Time: Jun 13 21:19:57 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 052425.M
Quant Title : GC Extractables
QLast Update : Tue May 27 03:11:40 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm



rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD061325AR\
Data File : FD049484.D
Signal(s) : FID2B.ch
Acq On : 13 Jun 2025 09:48
Sample : Q2177-02MS
Misc :
ALS Vial : 63 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 052425.M
Title : GC Extractables

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.264	4.252	4.299	PH	34331	290789	4.46%	0.332%
2	4.305	4.299	4.316	PV	152	1228	0.02%	0.001%
3	4.327	4.316	4.333	VV	308	1989	0.03%	0.002%
4	4.351	4.333	4.370	VV	14102	113337	1.74%	0.129%
5	4.373	4.370	4.400	VV	916	6722	0.10%	0.008%
6	4.413	4.400	4.418	PV	296	1644	0.03%	0.002%
7	4.435	4.418	4.452	VV	386	4444	0.07%	0.005%
8	4.480	4.452	4.500	PV	29279	261127	4.00%	0.298%
9	4.522	4.500	4.547	VV	236107	2040777	31.28%	2.329%
10	4.559	4.547	4.571	VV	1043	11477	0.18%	0.013%
11	4.588	4.571	4.609	VV	2032	27337	0.42%	0.031%
12	4.629	4.609	4.640	VV	4889	52976	0.81%	0.060%
13	4.648	4.640	4.667	VV	4080	39004	0.60%	0.045%
14	4.704	4.667	4.718	VV	3319	37045	0.57%	0.042%
15	4.734	4.718	4.755	VV	6562	63912	0.98%	0.073%
16	4.761	4.755	4.769	VV	449	3080	0.05%	0.004%
17	4.787	4.769	4.802	VV	3537	32959	0.51%	0.038%
18	4.814	4.802	4.837	VV	1626	18067	0.28%	0.021%
19	4.850	4.837	4.874	VV	724	9080	0.14%	0.010%
20	4.902	4.882	4.908	PV	260	2298	0.04%	0.003%
21	4.928	4.908	4.949	VV	541	6496	0.10%	0.007%
22	4.953	4.949	4.966	VV	329	2115	0.03%	0.002%
23	4.978	4.966	5.006	VV	292	5119	0.08%	0.006%
24	5.043	5.006	5.072	VV	767	15911	0.24%	0.018%
25	5.089	5.072	5.099	VV	2483	24024	0.37%	0.027%
26	5.115	5.099	5.145	VV	11000	117620	1.80%	0.134%
27	5.173	5.145	5.209	VV	2340	31768	0.49%	0.036%
28	5.219	5.209	5.239	VV	605	6583	0.10%	0.008%
29	5.278	5.263	5.290	VV	461	4690	0.07%	0.005%
30	5.305	5.290	5.316	VV	766	7918	0.12%	0.009%
31	5.335	5.316	5.387	VV	3956	47398	0.73%	0.054%
32	5.396	5.387	5.404	VV	369	3487	0.05%	0.004%
33	5.407	5.404	5.426	VV	326	2908	0.04%	0.003%
34	5.432	5.426	5.457	PV	231	3034	0.05%	0.003%
35	5.481	5.457	5.500	VV	641	11060	0.17%	0.013%
36	5.517	5.500	5.534	VV	2453	24541	0.38%	0.028%

rteres

37	5.558	5.534	5.576	VV	3821	46602	0.71%	0.053%
38	5.583	5.576	5.602	VV	512	6427	0.10%	0.007%
39	5.614	5.602	5.631	VV	882	10700	0.16%	0.012%
40	5.639	5.631	5.645	VV	343	1813	0.03%	0.002%
41	5.650	5.645	5.655	VV	213	1169	0.02%	0.001%
42	5.682	5.655	5.689	VV	592	7739	0.12%	0.009%
43	5.702	5.689	5.725	VV	703	9599	0.15%	0.011%
44	5.729	5.725	5.741	VV	316	2302	0.04%	0.003%
45	5.760	5.741	5.782	VV	591	7858	0.12%	0.009%
46	5.814	5.782	5.835	VV	775	12147	0.19%	0.014%
47	5.842	5.835	5.849	VV	225	1657	0.03%	0.002%
48	5.858	5.849	5.865	VV	435	3363	0.05%	0.004%
49	5.868	5.865	5.876	VV	403	1970	0.03%	0.002%
50	5.886	5.876	5.894	VV	357	2824	0.04%	0.003%
51	5.906	5.894	5.912	VV	335	3562	0.05%	0.004%
52	5.915	5.912	5.920	VV	437	1405	0.02%	0.002%
53	5.939	5.920	5.959	VV	506	6961	0.11%	0.008%
54	5.969	5.959	5.992	VV	529	6361	0.10%	0.007%
55	6.009	5.992	6.020	VV	629	7382	0.11%	0.008%
56	6.024	6.020	6.032	VV	469	2984	0.05%	0.003%
57	6.066	6.032	6.097	VV	280913	2528990	38.76%	2.886%
58	6.113	6.097	6.138	VV	1570	21534	0.33%	0.025%
59	6.155	6.138	6.177	VV	2893	31456	0.48%	0.036%
60	6.182	6.177	6.198	VV	432	4056	0.06%	0.005%
61	6.218	6.198	6.254	VV	968	18324	0.28%	0.021%
62	6.287	6.254	6.323	VV	852	19860	0.30%	0.023%
63	6.346	6.323	6.369	VV	1211	16269	0.25%	0.019%
64	6.407	6.369	6.420	VV	484	9054	0.14%	0.010%
65	6.427	6.420	6.448	VV	245	3143	0.05%	0.004%
66	6.459	6.448	6.466	VV	415	2778	0.04%	0.003%
67	6.495	6.466	6.523	VV	32547	321233	4.92%	0.367%
68	6.580	6.523	6.600	VV	1354	31055	0.48%	0.035%
69	6.615	6.600	6.629	VV	1272	14251	0.22%	0.016%
70	6.645	6.629	6.665	VV	3542	36609	0.56%	0.042%
71	6.677	6.665	6.702	VV	894	10526	0.16%	0.012%
72	6.717	6.702	6.742	VV	1794	20037	0.31%	0.023%
73	6.755	6.742	6.760	VV	384	3005	0.05%	0.003%
74	6.765	6.760	6.797	VV	406	5913	0.09%	0.007%
75	6.822	6.797	6.845	VV	798	11665	0.18%	0.013%
76	6.862	6.845	6.875	VV	567	6903	0.11%	0.008%
77	6.886	6.875	6.912	VV	607	7962	0.12%	0.009%
78	6.937	6.912	6.950	PV	1387	16532	0.25%	0.019%
79	6.964	6.950	6.979	VV	2828	31015	0.48%	0.035%
80	6.992	6.979	7.010	VV	2524	36380	0.56%	0.042%
81	7.028	7.010	7.083	VV	7434	118097	1.81%	0.135%
82	7.120	7.083	7.146	VV	269264	2579422	39.54%	2.943%
83	7.153	7.146	7.181	VV	1327	20792	0.32%	0.024%
84	7.195	7.181	7.209	VV	1241	13452	0.21%	0.015%
85	7.224	7.209	7.235	VV	789	8369	0.13%	0.010%
86	7.257	7.235	7.265	VV	1702	17999	0.28%	0.021%
87	7.279	7.265	7.298	VV	4337	51354	0.79%	0.059%
88	7.310	7.298	7.322	VV	1295	16706	0.26%	0.019%
89	7.335	7.322	7.367	VV	1845	29237	0.45%	0.033%

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90	7.386	7.367	7.399	VV	1618	20327	0.31%	0.023%
91	7.417	7.399	7.441	VV	7478	81679	1.25%	0.093%
92	7.453	7.441	7.462	VV	675	6874	0.11%	0.008%
93	7.481	7.462	7.492	VV	1034	14635	0.22%	0.017%
94	7.509	7.492	7.526	VV	1591	19843	0.30%	0.023%
95	7.532	7.526	7.547	VV	439	4283	0.07%	0.005%
96	7.591	7.547	7.615	VV	1056	22750	0.35%	0.026%
97	7.632	7.615	7.637	VV	575	6609	0.10%	0.008%
98	7.646	7.637	7.662	VV	668	7616	0.12%	0.009%
99	7.679	7.662	7.701	VV	1908	24229	0.37%	0.028%
100	7.733	7.701	7.802	VV	670152	6306916	96.67%	7.197%
101	7.823	7.802	7.832	VV	1133	15498	0.24%	0.018%
102	7.842	7.832	7.856	VV	1006	12131	0.19%	0.014%
103	7.870	7.856	7.886	VV	1168	14360	0.22%	0.016%
104	7.896	7.886	7.917	VV	772	10428	0.16%	0.012%
105	7.938	7.917	7.956	VV	1140	14614	0.22%	0.017%
106	7.982	7.956	8.009	VV	2266	29797	0.46%	0.034%
107	8.012	8.009	8.026	VV	594	4990	0.08%	0.006%
108	8.036	8.026	8.055	VV	880	9919	0.15%	0.011%
109	8.069	8.055	8.094	VV	699	12876	0.20%	0.015%
110	8.110	8.094	8.128	VV	1258	15996	0.25%	0.018%
111	8.152	8.128	8.159	VV	595	8571	0.13%	0.010%
112	8.189	8.159	8.193	VV	990	16567	0.25%	0.019%
113	8.198	8.193	8.205	VV	1079	7239	0.11%	0.008%
114	8.214	8.205	8.229	VV	1221	13404	0.21%	0.015%
115	8.232	8.229	8.237	VV	795	3733	0.06%	0.004%
116	8.241	8.237	8.258	VV	994	9850	0.15%	0.011%
117	8.286	8.258	8.319	VV	35985	374342	5.74%	0.427%
118	8.346	8.319	8.361	VV	1572	24811	0.38%	0.028%
119	8.399	8.361	8.458	VV	312460	3044983	46.67%	3.475%
120	8.481	8.458	8.507	VV	1196	18548	0.28%	0.021%
121	8.521	8.507	8.545	VV	946	11776	0.18%	0.013%
122	8.598	8.545	8.630	VV	431184	4253110	65.19%	4.853%
123	8.648	8.630	8.667	VV	2115	31284	0.48%	0.036%
124	8.696	8.667	8.725	VV	328908	3145934	48.22%	3.590%
125	8.743	8.725	8.763	VV	1266	23788	0.36%	0.027%
126	8.773	8.763	8.788	VV	1098	13878	0.21%	0.016%
127	8.794	8.788	8.804	VV	904	7139	0.11%	0.008%
128	8.822	8.804	8.867	VV	1529	34429	0.53%	0.039%
129	8.876	8.867	8.884	VV	610	4589	0.07%	0.005%
130	8.888	8.884	8.900	VV	692	4887	0.07%	0.006%
131	8.909	8.900	8.920	VV	476	4433	0.07%	0.005%
132	8.936	8.920	8.947	VV	1091	11875	0.18%	0.014%
133	8.966	8.947	8.980	VV	2368	27596	0.42%	0.031%
134	9.005	8.980	9.030	VV	66277	660630	10.13%	0.754%
135	9.041	9.030	9.073	VV	1647	32316	0.50%	0.037%
136	9.090	9.073	9.113	VV	2399	43732	0.67%	0.050%
137	9.124	9.113	9.145	VV	2456	34264	0.53%	0.039%
138	9.158	9.145	9.180	VV	1975	23729	0.36%	0.027%
139	9.196	9.180	9.212	VV	870	9077	0.14%	0.010%
140	9.216	9.212	9.229	VV	210	1224	0.02%	0.001%
141	9.248	9.229	9.271	VV	467	8699	0.13%	0.010%

rteres

142	9.291	9.271	9.309	VV	1103	14014	0.21%	0.016%
143	9.330	9.309	9.374	VV	1056	21112	0.32%	0.024%
144	9.389	9.374	9.425	VV	812	15298	0.23%	0.017%
145	9.442	9.425	9.446	VV	391	3857	0.06%	0.004%
146	9.476	9.446	9.511	VV	334452	3290534	50.44%	3.755%
147	9.517	9.511	9.525	VV	402	1971	0.03%	0.002%
148	9.561	9.525	9.582	VV	782	13673	0.21%	0.016%
149	9.622	9.582	9.640	VV	1304	26578	0.41%	0.030%
150	9.654	9.640	9.668	VV	939	12340	0.19%	0.014%
151	9.689	9.668	9.706	VV	5485	60657	0.93%	0.069%
152	9.721	9.706	9.731	VV	3202	31854	0.49%	0.036%
153	9.751	9.731	9.776	VV	38322	389180	5.97%	0.444%
154	9.798	9.776	9.843	VV	1379	25491	0.39%	0.029%
155	9.881	9.843	9.936	VV	31910	359980	5.52%	0.411%
156	9.956	9.936	9.972	PV	726	10167	0.16%	0.012%
157	9.975	9.972	10.020	VV	522	9600	0.15%	0.011%
158	10.032	10.020	10.037	VV	289	1788	0.03%	0.002%
159	10.076	10.037	10.122	VV	3401	44138	0.68%	0.050%
160	10.159	10.122	10.180	VV	544	9632	0.15%	0.011%
161	10.192	10.180	10.196	VV	387	2920	0.04%	0.003%
162	10.223	10.196	10.239	VV	1666	22785	0.35%	0.026%
163	10.245	10.239	10.255	VV	524	3763	0.06%	0.004%
164	10.276	10.255	10.289	VV	785	10136	0.16%	0.012%
165	10.315	10.289	10.333	VV	971	17936	0.27%	0.020%
166	10.353	10.333	10.377	VV	1443	23562	0.36%	0.027%
167	10.400	10.377	10.419	VV	1073	17994	0.28%	0.021%
168	10.424	10.419	10.434	VV	383	2756	0.04%	0.003%
169	10.470	10.434	10.496	VV	1120	25216	0.39%	0.029%
170	10.520	10.496	10.541	VV	1172	22597	0.35%	0.026%
171	10.549	10.541	10.560	VV	744	7554	0.12%	0.009%
172	10.566	10.560	10.584	VV	903	9192	0.14%	0.010%
173	10.608	10.584	10.628	VV	1327	25196	0.39%	0.029%
174	10.640	10.628	10.648	VV	1258	12860	0.20%	0.015%
175	10.673	10.648	10.696	VV	5259	91249	1.40%	0.104%
176	10.704	10.696	10.730	VV	1116	17854	0.27%	0.020%
177	10.750	10.730	10.789	VV	1225	26114	0.40%	0.030%
178	10.815	10.789	10.825	VV	1144	14874	0.23%	0.017%
179	10.841	10.825	10.848	VV	2767	27566	0.42%	0.031%
180	10.875	10.848	10.917	VV	349884	3613622	55.39%	4.123%
181	10.949	10.917	11.003	VV	318275	3253926	49.88%	3.713%
182	11.027	11.003	11.037	VV	933	16120	0.25%	0.018%
183	11.044	11.037	11.063	VV	970	12048	0.18%	0.014%
184	11.070	11.063	11.098	VV	709	10366	0.16%	0.012%
185	11.103	11.098	11.134	VV	333	5791	0.09%	0.007%
186	11.156	11.134	11.194	VV	3386	42493	0.65%	0.048%
187	11.201	11.194	11.210	VV	322	1883	0.03%	0.002%
188	11.218	11.210	11.226	VV	326	2045	0.03%	0.002%
189	11.251	11.226	11.269	VV	795	11685	0.18%	0.013%
190	11.319	11.269	11.348	VV	30738	349835	5.36%	0.399%
191	11.370	11.348	11.375	PV	555	5569	0.09%	0.006%
192	11.408	11.375	11.433	VV	1275	25001	0.38%	0.029%
193	11.440	11.433	11.445	VV	303	1468	0.02%	0.002%
194	11.474	11.445	11.502	VV	799	15465	0.24%	0.018%

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195	11.523	11.502	11.547	VV	679	10634	0.16%	0.012%
196	11.560	11.547	11.584	VV	421	7098	0.11%	0.008%
197	11.644	11.584	11.668	PV	606519	6524090	100.00%	7.445%
198	11.673	11.668	11.688	VV	4150	36599	0.56%	0.042%
199	11.704	11.688	11.724	VV	5101	60429	0.93%	0.069%
200	11.736	11.724	11.751	VV	1542	18857	0.29%	0.022%
201	11.789	11.751	11.810	VV	5258	105863	1.62%	0.121%
202	11.821	11.810	11.836	VV	2558	31058	0.48%	0.035%
203	11.852	11.836	11.882	VV	3698	47689	0.73%	0.054%
204	11.914	11.882	11.938	VV	1175	20473	0.31%	0.023%
205	11.984	11.938	12.003	VV	1079	27877	0.43%	0.032%
206	12.037	12.003	12.063	VV	9610	139001	2.13%	0.159%
207	12.077	12.063	12.109	VV	1498	22554	0.35%	0.026%
208	12.142	12.109	12.165	VV	2886	42433	0.65%	0.048%
209	12.169	12.165	12.176	VV	518	2967	0.05%	0.003%
210	12.236	12.176	12.279	VV	138273	1653142	25.34%	1.886%
211	12.291	12.279	12.336	VV	2271	48205	0.74%	0.055%
212	12.347	12.336	12.355	VV	925	9790	0.15%	0.011%
213	12.361	12.355	12.369	VV	1022	7725	0.12%	0.009%
214	12.393	12.369	12.436	VV	1246	36703	0.56%	0.042%
215	12.488	12.436	12.512	VV	3428	79001	1.21%	0.090%
216	12.517	12.512	12.533	VV	998	9472	0.15%	0.011%
217	12.541	12.533	12.549	VV	811	6462	0.10%	0.007%
218	12.569	12.549	12.590	VV	3132	40133	0.62%	0.046%
219	12.626	12.590	12.654	VV	32065	394472	6.05%	0.450%
220	12.689	12.654	12.739	VV	336193	3673156	56.30%	4.191%
221	12.749	12.739	12.766	VV	617	6562	0.10%	0.007%
222	12.775	12.766	12.793	VV	317	4134	0.06%	0.005%
223	12.802	12.793	12.806	VV	343	2001	0.03%	0.002%
224	12.845	12.806	12.852	VV	733	12354	0.19%	0.014%
225	12.873	12.852	12.917	VV	4672	70683	1.08%	0.081%
226	12.923	12.917	12.955	VV	992	14294	0.22%	0.016%
227	12.988	12.955	13.014	VV	327520	3575500	54.80%	4.080%
228	13.040	13.014	13.046	VV	6835	70873	1.09%	0.081%
229	13.070	13.046	13.100	VV	115027	1343275	20.59%	1.533%
230	13.117	13.100	13.137	VV	728	10574	0.16%	0.012%
231	13.154	13.137	13.177	VV	1594	19896	0.30%	0.023%
232	13.190	13.177	13.205	VV	480	5261	0.08%	0.006%
233	13.236	13.205	13.265	VV	27175	343829	5.27%	0.392%
234	13.289	13.265	13.341	VV	5646	105022	1.61%	0.120%
235	13.354	13.341	13.364	VV	950	10375	0.16%	0.012%
236	13.380	13.364	13.395	VV	1556	20814	0.32%	0.024%
237	13.405	13.395	13.421	VV	1018	13108	0.20%	0.015%
238	13.460	13.421	13.535	VV	73773	943510	14.46%	1.077%
239	13.569	13.535	13.605	VV	5891	105052	1.61%	0.120%
240	13.616	13.605	13.623	VV	853	8277	0.13%	0.009%
241	13.639	13.623	13.655	VV	1446	19268	0.30%	0.022%
242	13.677	13.655	13.700	VV	3960	60675	0.93%	0.069%
243	13.717	13.700	13.740	VV	2698	36668	0.56%	0.042%
244	13.766	13.740	13.790	VV	1820	34538	0.53%	0.039%
245	13.820	13.790	13.866	VV	27516	378753	5.81%	0.432%
246	13.886	13.866	13.905	VV	2281	30672	0.47%	0.035%

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247	13.933	13.905	13.977	VV	2017	49406	0.76%	0.056%
248	13.991	13.977	14.014	VV	473	6494	0.10%	0.007%
249	14.047	14.014	14.074	PV	702	12704	0.19%	0.014%
250	14.093	14.074	14.123	VV	454	7078	0.11%	0.008%
251	14.154	14.137	14.183	VV	498	9345	0.14%	0.011%
252	14.189	14.183	14.194	VV	274	1515	0.02%	0.002%
253	14.214	14.194	14.228	VV	592	8798	0.13%	0.010%
254	14.257	14.228	14.287	VV	1828	38908	0.60%	0.044%
255	14.299	14.287	14.334	VV	1391	24078	0.37%	0.027%
256	14.387	14.334	14.393	VV	954	21206	0.33%	0.024%
257	14.406	14.393	14.428	VV	1075	15986	0.25%	0.018%
258	14.444	14.428	14.457	VV	855	11483	0.18%	0.013%
259	14.479	14.457	14.504	VV	1911	34434	0.53%	0.039%
260	14.510	14.504	14.523	VV	1081	10606	0.16%	0.012%
261	14.544	14.523	14.567	VV	4917	65995	1.01%	0.075%
262	14.602	14.567	14.626	VV	1563	35087	0.54%	0.040%
263	14.669	14.626	14.680	VV	945	20704	0.32%	0.024%
264	14.699	14.680	14.715	VV	1015	17783	0.27%	0.020%
265	14.726	14.715	14.738	VV	1212	14612	0.22%	0.017%
266	14.758	14.738	14.786	VV	2751	40449	0.62%	0.046%
267	14.798	14.786	14.821	VV	367	7104	0.11%	0.008%
268	14.859	14.821	14.878	VV	260320	3101231	47.54%	3.539%
269	14.901	14.878	14.952	VV	271972	3399395	52.11%	3.879%
270	14.957	14.952	14.976	VV	627	7322	0.11%	0.008%
271	15.018	14.976	15.036	VV	3946	56738	0.87%	0.065%
272	15.055	15.036	15.070	VV	1064	14921	0.23%	0.017%
273	15.094	15.070	15.129	VV	1626	29731	0.46%	0.034%
274	15.151	15.129	15.177	VV	1263	22858	0.35%	0.026%
275	15.192	15.177	15.262	VV	882	28817	0.44%	0.033%
276	15.301	15.262	15.327	VV	4243	81800	1.25%	0.093%
277	15.333	15.327	15.358	VV	1834	24003	0.37%	0.027%
278	15.362	15.358	15.365	VV	761	3116	0.05%	0.004%
279	15.369	15.365	15.374	VV	724	3150	0.05%	0.004%
280	15.376	15.374	15.391	VV	756	5185	0.08%	0.006%
281	15.395	15.391	15.415	VV	472	3196	0.05%	0.004%
282	15.458	15.415	15.500	VV	1688	44956	0.69%	0.051%
283	15.524	15.500	15.544	VV	3026	40897	0.63%	0.047%
284	15.563	15.544	15.587	VV	1462	23032	0.35%	0.026%
285	15.604	15.587	15.624	VV	1079	17308	0.27%	0.020%
286	15.669	15.624	15.674	VV	1910	33039	0.51%	0.038%
287	15.685	15.674	15.724	VV	2147	39177	0.60%	0.045%
288	15.736	15.724	15.740	VV	663	5344	0.08%	0.006%
289	15.765	15.740	15.790	VV	1620	28358	0.43%	0.032%
290	15.801	15.790	15.819	VV	726	10947	0.17%	0.012%
291	15.820	15.819	15.826	VV	662	2318	0.04%	0.003%
292	15.847	15.826	15.859	VV	986	14918	0.23%	0.017%
293	15.873	15.859	15.907	VV	1024	21293	0.33%	0.024%
294	15.939	15.907	15.977	VV	23285	316301	4.85%	0.361%
295	15.983	15.977	15.990	VV	469	3356	0.05%	0.004%
296	15.995	15.990	16.004	VV	451	3272	0.05%	0.004%
297	16.009	16.004	16.028	VV	415	4086	0.06%	0.005%
298	16.032	16.028	16.052	VV	310	2383	0.04%	0.003%
299	16.088	16.066	16.096	PV	472	5315	0.08%	0.006%

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300	16.128	16.096	16.176	VV	933	27832	0.43%	0.032%
301	16.189	16.176	16.210	VV	441	6588	0.10%	0.008%
302	16.225	16.210	16.256	VV	772	13530	0.21%	0.015%
303	16.270	16.256	16.282	VV	492	6528	0.10%	0.007%
304	16.324	16.282	16.356	VV	1104	31253	0.48%	0.036%
305	16.410	16.356	16.425	VV	231205	3021520	46.31%	3.448%
306	16.443	16.425	16.477	VV	254412	2908651	44.58%	3.319%
307	16.501	16.477	16.517	VV	1446	23486	0.36%	0.027%
308	16.542	16.517	16.572	VV	4351	83709	1.28%	0.096%
309	16.576	16.572	16.615	VV	1183	21641	0.33%	0.025%
310	16.656	16.615	16.675	VV	1822	33130	0.51%	0.038%
311	16.689	16.675	16.694	VV	993	9076	0.14%	0.010%
312	16.727	16.694	16.752	VV	8288	119826	1.84%	0.137%
313	16.789	16.752	16.830	VV	237286	2875120	44.07%	3.281%
314	16.885	16.830	16.916	VV	27302	377869	5.79%	0.431%
315	16.937	16.916	16.979	VV	1369	27854	0.43%	0.032%
316	17.022	16.979	17.029	VV	1013	18354	0.28%	0.021%
317	17.036	17.029	17.062	VV	1013	14084	0.22%	0.016%
318	17.067	17.062	17.079	VV	402	3237	0.05%	0.004%
319	17.091	17.079	17.107	VV	451	5571	0.09%	0.006%
320	17.146	17.107	17.231	VV	1843	65265	1.00%	0.074%
321	17.246	17.231	17.258	VV	874	10944	0.17%	0.012%
322	17.282	17.258	17.294	VV	1182	20079	0.31%	0.023%
323	17.310	17.294	17.319	VV	1240	14215	0.22%	0.016%
324	17.336	17.319	17.354	VV	1863	27310	0.42%	0.031%
325	17.363	17.354	17.384	VV	829	12272	0.19%	0.014%
326	17.391	17.384	17.400	VV	664	5119	0.08%	0.006%
327	17.438	17.400	17.460	VV	1525	28936	0.44%	0.033%
328	17.464	17.460	17.470	VV	585	2250	0.03%	0.003%
329	17.485	17.470	17.497	VV	604	6546	0.10%	0.007%
330	17.512	17.497	17.536	VV	595	10324	0.16%	0.012%
331	17.553	17.536	17.590	VV	571	9091	0.14%	0.010%
332	17.601	17.590	17.607	PV	328	1606	0.02%	0.002%
333	17.626	17.607	17.645	VV	579	5841	0.09%	0.007%
334	17.664	17.645	17.687	VV	389	5795	0.09%	0.007%
335	17.703	17.687	17.710	VV	520	4524	0.07%	0.005%
336	17.771	17.710	17.802	VV	22200	324398	4.97%	0.370%
337	17.864	17.802	17.892	VV	826	27259	0.42%	0.031%
338	17.934	17.892	17.970	VV	1126	34210	0.52%	0.039%
339	17.984	17.970	18.022	VV	480	10885	0.17%	0.012%
340	18.056	18.022	18.108	VV	2369	52502	0.80%	0.060%
341	18.155	18.108	18.171	VV	227598	2941594	45.09%	3.357%
342	18.194	18.171	18.258	VV	220955	2769736	42.45%	3.161%
343	18.282	18.258	18.297	VV	2251	30798	0.47%	0.035%
344	18.314	18.297	18.341	VV	1960	32113	0.49%	0.037%
345	18.345	18.341	18.366	VV	533	7173	0.11%	0.008%
346	18.409	18.366	18.443	VV	215253	2740026	42.00%	3.127%
347	18.450	18.443	18.469	VV	945	11307	0.17%	0.013%
348	18.477	18.469	18.482	VV	889	5456	0.08%	0.006%
349	18.487	18.482	18.505	VV	870	10037	0.15%	0.011%
350	18.530	18.505	18.562	VV	2862	43225	0.66%	0.049%
351	18.600	18.562	18.657	VV	21894	318107	4.88%	0.363%

rteres

352	18.705	18.657	18.724	VV	657	16852	0.26%	0.019%
353	18.728	18.724	18.732	VV	273	1114	0.02%	0.001%
354	18.750	18.732	18.757	VV	534	4830	0.07%	0.006%
355	18.761	18.757	18.788	VV	492	5876	0.09%	0.007%
356	18.833	18.788	18.856	PV	573	14056	0.22%	0.016%
357	18.864	18.856	18.892	VV	537	5610	0.09%	0.006%
358	18.910	18.900	18.920	VV	193	1233	0.02%	0.001%
359	18.963	18.920	18.980	PV	1340	14095	0.22%	0.016%

Sum of corrected areas: 87635738

Aromatic EPH 052425.M Fri Jun 13 22:45:04 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC061125AL\
Data File : FC069166.D
Signal(s) : FID1A.ch
Acq On : 11 Jun 2025 22:50
Operator : YP/AJ
Sample : Q2177-02MSD
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
B-187-SB01MSD

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 06/12/2025
Supervised By :mohammad ahmed 06/13/2025

Integration File: autoint1.e
Quant Time: Jun 12 06:06:53 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 052425.M
Quant Title : GC Extractables
QLast Update : Tue May 27 01:48:55 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
12) S	1-chlorooctadecane (S...	13.118	6098846	67.981 ug/ml
Spiked Amount	50.000		Recovery =	135.96%
	Target Compounds			
1) T	n-Nonane (C9)	3.404	2206907	20.796 ug/ml
2) T	n-Decane (C10)	4.479	2703700	25.529 ug/mlm
4) T	n-Dodecane (C12)	6.507	3279378	31.196 ug/ml
6) T	n-Tetradecane (C14)	8.307	3644091	35.551 ug/ml
7) T	n-Hexadecane (C16)	9.911	3446165	33.963 ug/ml
8) T	n-Octadecane (C18)	11.356	3399983	34.019 ug/ml
10) T	n-Eicosane (C20)	12.669	3460700	35.532 ug/ml
11) T	n-Heneicosane (C21)	13.282	3301753	34.303 ug/ml
13) T	n-Docosane (C22)	13.869	3282558	34.456 ug/ml
14) T	n-Tetracosane (C24)	14.975	3280063	34.838 ug/ml
15) T	n-Hexacosane (C26)	15.998	3253279	35.041 ug/ml
16) T	n-Octacosane (C28)	16.949	3217537	34.615 ug/ml
17) T	n-Tricontane (C30)	17.839	3242305	33.510 ug/ml
18) T	n-Dotriacontane (C32)	18.674	3276603	33.064 ug/ml
19) T	n-Tetratriacontane (C34)	19.459	3328230	34.533 ug/ml
20) T	n-Hexatriacontane (C36)	20.201	3277362	34.524 ug/ml
21) T	n-Octatriacontane (C38)	20.970	3206710	35.148 ug/ml
22) T	n-Tetracontane (C40)	21.939	2906027	32.935 ug/mlm

(f)=RT Delta > 1/2 Window (m)=manual int.

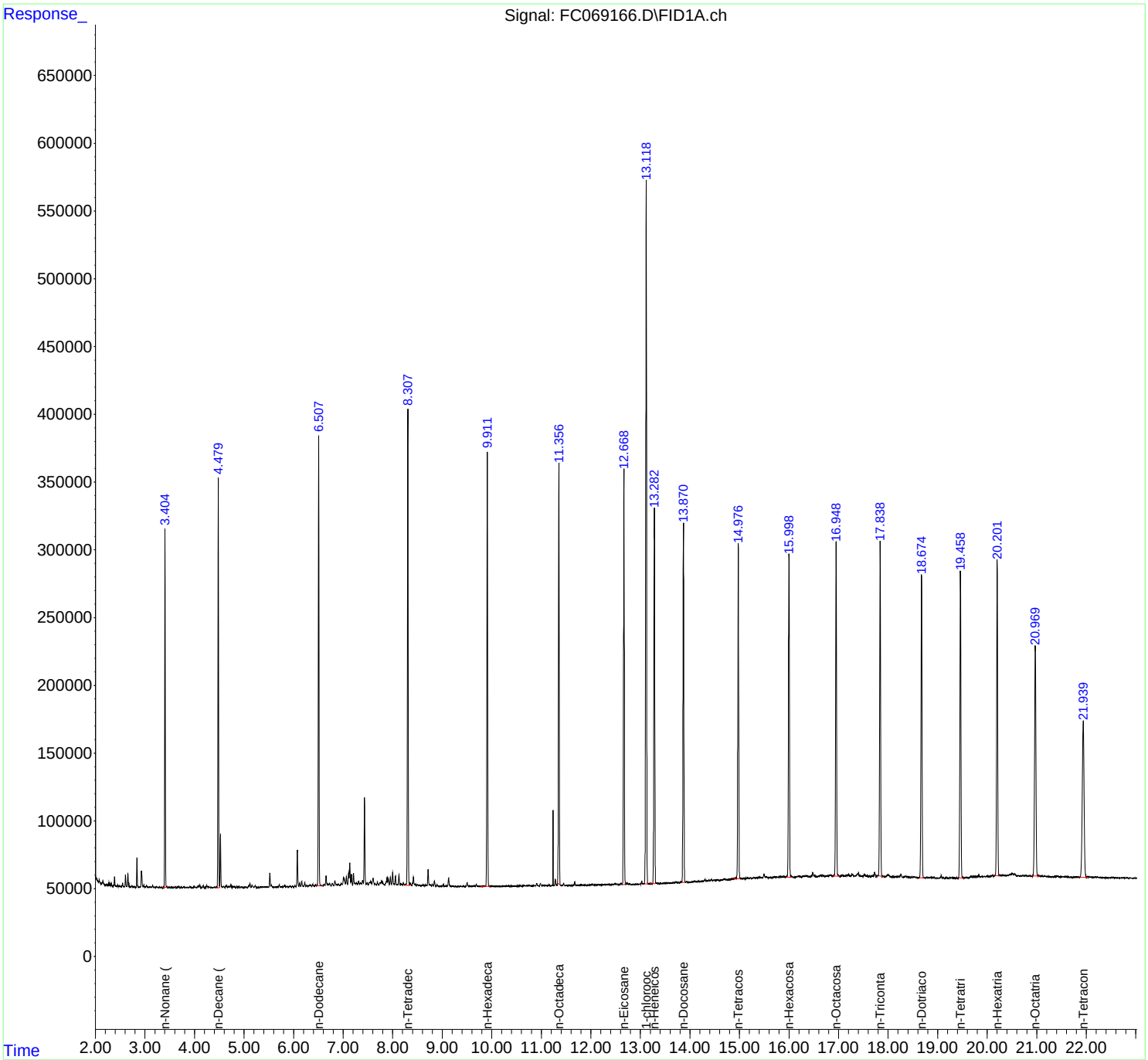
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC061125AL\
Data File : FC069166.D
Signal(s) : FID1A.ch
Acq On : 11 Jun 2025 22:50
Operator : YP/AJ
Sample : Q2177-02MSD
Misc :
ALS Vial : 20 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Jun 12 06:06:53 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 052425.M
Quant Title : GC Extractables
QLast Update : Tue May 27 01:48:55 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

Instrument :
FID_C
ClientSampleId :
B-187-SB01MSD

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 06/12/2025
Supervised By :mohammad ahmed 06/13/2025



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Instrument :
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Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 06/12/2025
Supervised By :mohammad ahmed 06/13/2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC06112
Data File : FC069166.D
Signal(s) : FID1A.ch
Acq On : 11 Jun 2025 22:50
Sample : Q2177-02MSD
Misc :
ALS Vial : 20 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 052425.M
Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.229	3.204	3.243	BV	373	3610	0.06%	0.004%
2	3.252	3.243	3.281	VV	183	2110	0.03%	0.002%
3	3.299	3.281	3.325	VV	185	2590	0.04%	0.003%
4	3.352	3.325	3.364	PV	94	1175	0.02%	0.001%
5	3.404	3.364	3.488	VV	264351	2216208	36.10%	2.585%
6	3.507	3.488	3.521	VV	173	2257	0.04%	0.003%
7	3.529	3.521	3.571	VV	279	4536	0.07%	0.005%
8	3.609	3.571	3.637	VV	444	7355	0.12%	0.009%
9	3.682	3.637	3.708	VV	697	11955	0.19%	0.014%
10	3.732	3.708	3.761	VV	481	7710	0.13%	0.009%
11	3.782	3.761	3.809	PV	816	10927	0.18%	0.013%
12	3.848	3.809	3.870	VV	308	7827	0.13%	0.009%
13	3.904	3.870	3.942	VV	781	12835	0.21%	0.015%
14	3.953	3.942	3.968	VV	222	1957	0.03%	0.002%
15	3.992	3.968	4.039	VV	699	15288	0.25%	0.018%
16	4.078	4.039	4.092	VV	1761	22765	0.37%	0.027%
17	4.107	4.092	4.127	VV	2344	23251	0.38%	0.027%
18	4.143	4.127	4.154	VV	461	5166	0.08%	0.006%
19	4.174	4.154	4.198	VV	1811	18764	0.31%	0.022%
20	4.209	4.198	4.224	VV	212	3032	0.05%	0.004%
21	4.246	4.224	4.275	VV	1485	23918	0.39%	0.028%
22	4.288	4.275	4.365	VV	660	13833	0.23%	0.016%
23	4.398	4.365	4.416	PV	382	6346	0.10%	0.007%
24	4.437	4.416	4.454	VV	389	5687	0.09%	0.007%
25	4.480	4.454	4.505	VV	300503	2704184	44.05%	3.155%
26	4.524	4.505	4.569	VV	39776	363362	5.92%	0.424%
27	4.587	4.569	4.613	VV	1230	15239	0.25%	0.018%
28	4.634	4.613	4.670	VV	1541	29871	0.49%	0.035%
29	4.684	4.670	4.693	VV	723	7060	0.12%	0.008%
30	4.706	4.693	4.720	VV	1103	11295	0.18%	0.013%
31	4.736	4.720	4.753	VV	2512	23513	0.38%	0.027%
32	4.767	4.753	4.779	VV	931	9014	0.15%	0.011%
33	4.790	4.779	4.805	VV	748	9153	0.15%	0.011%
34	4.813	4.805	4.830	VV	549	5374	0.09%	0.006%
35	4.856	4.830	4.875	VV	779	10714	0.17%	0.012%
36	4.896	4.875	4.915	VV	682	9321	0.15%	0.011%

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Instrument :
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Manual IntegrationsAPPROVED

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					rteres			
37	4.933	4.915	4.945	VV	289	4266	0.07%	0.005%
38	4.960	4.945	4.982	VV	746	7446	0	
39	5.006	4.982	5.020	VV	317	3831	0	
40	5.037	5.020	5.067	VV	502	7257	0	
41	5.092	5.067	5.103	PV	1588	16117	0	
42	5.120	5.103	5.144	VV	3096	37779	0	
43	5.162	5.144	5.193	VV	1846	25020	0.41%	0.029%
44	5.225	5.193	5.271	VV	1709	22737	0.37%	0.027%
45	5.281	5.271	5.299	PV	130	1639	0.03%	0.002%
46	5.325	5.299	5.358	VV	694	11106	0.18%	0.013%
47	5.386	5.358	5.403	VV	477	9563	0.16%	0.011%
48	5.417	5.403	5.430	VV	415	5187	0.08%	0.006%
49	5.446	5.430	5.460	VV	342	5437	0.09%	0.006%
50	5.474	5.460	5.496	VV	341	5742	0.09%	0.007%
51	5.521	5.496	5.542	VV	10781	109842	1.79%	0.128%
52	5.554	5.542	5.578	VV	1468	21104	0.34%	0.025%
53	5.591	5.578	5.604	VV	377	4593	0.07%	0.005%
54	5.618	5.604	5.631	VV	365	4318	0.07%	0.005%
55	5.679	5.631	5.689	VV	454	10980	0.18%	0.013%
56	5.711	5.689	5.741	VV	2028	26667	0.43%	0.031%
57	5.770	5.741	5.784	VV	685	11409	0.19%	0.013%
58	5.823	5.784	5.853	VV	1410	32237	0.53%	0.038%
59	5.872	5.853	5.903	VV	1006	16583	0.27%	0.019%
60	5.922	5.903	5.956	VV	1020	19507	0.32%	0.023%
61	5.976	5.956	6.004	VV	1104	16387	0.27%	0.019%
62	6.025	6.004	6.045	VV	1084	17829	0.29%	0.021%
63	6.076	6.045	6.104	VV	27669	291897	4.75%	0.341%
64	6.122	6.104	6.141	VV	3343	42246	0.69%	0.049%
65	6.164	6.141	6.197	VV	4637	66273	1.08%	0.077%
66	6.226	6.197	6.248	VV	3749	53107	0.87%	0.062%
67	6.265	6.248	6.288	VV	1339	25280	0.41%	0.029%
68	6.319	6.288	6.329	VV	1190	26254	0.43%	0.031%
69	6.345	6.329	6.368	VV	1944	30566	0.50%	0.036%
70	6.389	6.368	6.414	VV	2100	36529	0.60%	0.043%
71	6.442	6.414	6.458	VV	1785	33205	0.54%	0.039%
72	6.468	6.458	6.474	VV	1342	12858	0.21%	0.015%
73	6.507	6.474	6.558	VV	333094	3327138	54.20%	3.881%
74	6.570	6.558	6.584	VV	1334	18661	0.30%	0.022%
75	6.622	6.584	6.635	VV	1988	48411	0.79%	0.056%
76	6.656	6.635	6.679	VV	8413	114633	1.87%	0.134%
77	6.689	6.679	6.713	VV	2607	46518	0.76%	0.054%
78	6.728	6.713	6.761	VV	3037	54353	0.89%	0.063%
79	6.781	6.761	6.808	VV	2843	55029	0.90%	0.064%
80	6.834	6.808	6.859	VV	4741	86045	1.40%	0.100%
81	6.867	6.859	6.881	VV	2151	25707	0.42%	0.030%
82	6.896	6.881	6.931	VV	2234	54770	0.89%	0.064%
83	6.966	6.931	6.986	VV	2582	65594	1.07%	0.077%
84	7.008	6.986	7.048	VV	7206	172914	2.82%	0.202%
85	7.067	7.048	7.090	VV	7797	112863	1.84%	0.132%
86	7.111	7.090	7.120	VV	10519	117709	1.92%	0.137%
87	7.135	7.120	7.153	VV	17893	213509	3.48%	0.249%
88	7.168	7.153	7.190	VV	9494	114454	1.86%	0.134%
89	7.210	7.190	7.252	VV	10154	162684	2.65%	0.190%

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rteres

Manual IntegrationsAPPROVED

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90	7.267	7.252	7.283	VV	3425	51015	0.83%	0.060%
91	7.313	7.283	7.331	VV	4490	88134		
92	7.357	7.331	7.374	VV	3078	67350		
93	7.394	7.374	7.408	VV	4915	75121		
94	7.432	7.408	7.463	VV	64989	703342	11	
95	7.484	7.463	7.510	VV	2842	69071		
96	7.554	7.510	7.581	VV	4117	135892	2.21%	0.159%
97	7.605	7.581	7.632	VV	6439	129686	2.11%	0.151%
98	7.645	7.632	7.671	VV	2758	49449	0.81%	0.058%
99	7.693	7.671	7.716	VV	3376	62439	1.02%	0.073%
100	7.747	7.716	7.758	VV	3232	62059	1.01%	0.072%
101	7.775	7.758	7.791	VV	4724	72563	1.18%	0.085%
102	7.800	7.791	7.836	VV	3257	62220	1.01%	0.073%
103	7.888	7.836	7.902	VV	7191	147916	2.41%	0.173%
104	7.913	7.902	7.933	VV	6178	79080	1.29%	0.092%
105	7.955	7.933	7.977	VV	7284	104927	1.71%	0.122%
106	8.000	7.977	8.031	VV	10692	158098	2.58%	0.184%
107	8.057	8.031	8.080	VV	8163	114617	1.87%	0.134%
108	8.127	8.080	8.151	VV	8996	146244	2.38%	0.171%
109	8.166	8.151	8.198	VV	2125	52967	0.86%	0.062%
110	8.217	8.198	8.236	VV	2830	45927	0.75%	0.054%
111	8.307	8.236	8.339	VV	353153	3714421	60.51%	4.333%
112	8.354	8.339	8.377	VV	2722	44573	0.73%	0.052%
113	8.420	8.377	8.441	VV	7412	124628	2.03%	0.145%
114	8.452	8.441	8.481	VV	2107	39348	0.64%	0.046%
115	8.500	8.481	8.521	VV	1509	31020	0.51%	0.036%
116	8.535	8.521	8.569	VV	1169	29319	0.48%	0.034%
117	8.619	8.569	8.645	VV	1346	45422	0.74%	0.053%
118	8.667	8.645	8.694	VV	1533	33531	0.55%	0.039%
119	8.716	8.694	8.741	VV	12911	153760	2.50%	0.179%
120	8.755	8.741	8.780	VV	1810	29849	0.49%	0.035%
121	8.797	8.780	8.821	VV	1918	29157	0.47%	0.034%
122	8.843	8.821	8.874	VV	4314	62799	1.02%	0.073%
123	8.895	8.874	8.941	VV	1456	26586	0.43%	0.031%
124	8.964	8.941	8.979	VV	453	8074	0.13%	0.009%
125	9.025	8.979	9.051	VV	1331	29754	0.48%	0.035%
126	9.068	9.051	9.104	VV	667	15904	0.26%	0.019%
127	9.130	9.104	9.175	VV	6344	89993	1.47%	0.105%
128	9.187	9.175	9.197	VV	314	3550	0.06%	0.004%
129	9.214	9.197	9.244	VV	499	7466	0.12%	0.009%
130	9.267	9.244	9.299	VV	256	4412	0.07%	0.005%
131	9.320	9.299	9.338	VV	224	3016	0.05%	0.004%
132	9.371	9.338	9.382	VV	287	5570	0.09%	0.006%
133	9.387	9.382	9.403	VV	230	1761	0.03%	0.002%
134	9.430	9.403	9.470	VV	413	7392	0.12%	0.009%
135	9.504	9.470	9.534	PV	2879	39220	0.64%	0.046%
136	9.550	9.534	9.568	VV	645	7949	0.13%	0.009%
137	9.593	9.568	9.614	VV	272	5897	0.10%	0.007%
138	9.643	9.614	9.667	VV	583	10765	0.18%	0.013%
139	9.689	9.667	9.737	VV	1858	23500	0.38%	0.027%
140	9.754	9.737	9.771	VV	190	2467	0.04%	0.003%
141	9.777	9.771	9.798	VV	145	1899	0.03%	0.002%

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Instrument :
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Manual IntegrationsAPPROVED

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142	9.828	9.798	9.873	VV	437	9603	0.16%	0.011%
143	9.911	9.873	9.977	VV	319195	3449253	56	
144	9.988	9.977	10.034	VV	231	4618		
145	10.042	10.034	10.073	VV	85	1731		
146	10.084	10.073	10.111	VV	157	2047		
147	10.122	10.111	10.141	PV	79	1379		
148	10.155	10.141	10.168	VV	158	1439	0.02%	0.002%
149	10.179	10.168	10.205	VV	107	1684	0.03%	0.002%
150	10.223	10.205	10.246	PV	185	2736	0.04%	0.003%
151	10.262	10.246	10.271	VV	202	2314	0.04%	0.003%
152	10.303	10.271	10.321	VV	356	7274	0.12%	0.008%
153	10.345	10.321	10.364	VV	264	5157	0.08%	0.006%
154	10.389	10.364	10.451	VV	306	9241	0.15%	0.011%
155	10.461	10.451	10.498	VV	162	2908	0.05%	0.003%
156	10.551	10.498	10.564	VV	291	7893	0.13%	0.009%
157	10.577	10.564	10.618	VV	326	7700	0.13%	0.009%
158	10.651	10.618	10.681	VV	676	12256	0.20%	0.014%
159	10.704	10.681	10.730	VV	489	9275	0.15%	0.011%
160	10.747	10.730	10.808	VV	542	15349	0.25%	0.018%
161	10.835	10.808	10.857	VV	256	5048	0.08%	0.006%
162	10.909	10.857	10.950	VV	2059	30723	0.50%	0.036%
163	10.984	10.950	11.010	VV	1979	27219	0.44%	0.032%
164	11.026	11.010	11.053	VV	365	6695	0.11%	0.008%
165	11.077	11.053	11.091	VV	261	4511	0.07%	0.005%
166	11.104	11.091	11.128	VV	235	2961	0.05%	0.003%
167	11.158	11.128	11.181	VV	851	10599	0.17%	0.012%
168	11.214	11.181	11.231	PV	182	2331	0.04%	0.003%
169	11.238	11.231	11.248	VV	20854	39852	0.65%	0.046%
170	11.285	11.248	11.317	VV	4795	65539	1.07%	0.076%
171	11.356	11.317	11.419	VV	310449	3449273	56.19%	4.024%
172	11.450	11.419	11.481	VV	1615	20448	0.33%	0.024%
173	11.501	11.481	11.512	VV	144	2112	0.03%	0.002%
174	11.517	11.512	11.569	VV	127	1952	0.03%	0.002%
175	11.578	11.569	11.601	VV	152	1333	0.02%	0.002%
176	11.676	11.601	11.727	PV	2902	38056	0.62%	0.044%
177	11.750	11.727	11.793	VV	343	8760	0.14%	0.010%
178	11.812	11.793	11.849	VV	558	10430	0.17%	0.012%
179	11.866	11.849	11.938	VV	359	9183	0.15%	0.011%
180	11.982	11.938	11.996	VV	396	8504	0.14%	0.010%
181	12.024	11.996	12.074	VV	810	17897	0.29%	0.021%
182	12.079	12.074	12.098	VV	249	2348	0.04%	0.003%
183	12.141	12.098	12.204	VV	331	14090	0.23%	0.016%
184	12.260	12.204	12.276	VV	432	11541	0.19%	0.013%
185	12.297	12.276	12.310	VV	507	7692	0.13%	0.009%
186	12.321	12.310	12.341	VV	499	6885	0.11%	0.008%
187	12.361	12.341	12.388	VV	548	10318	0.17%	0.012%
188	12.404	12.388	12.420	VV	353	6391	0.10%	0.007%
189	12.488	12.420	12.508	VV	1114	31130	0.51%	0.036%
190	12.530	12.508	12.562	VV	752	15051	0.25%	0.018%
191	12.607	12.562	12.630	VV	1060	18614	0.30%	0.022%
192	12.669	12.630	12.706	VV	304145	3471486	56.55%	4.050%
193	12.731	12.706	12.761	VV	1782	28712	0.47%	0.033%
194	12.786	12.761	12.861	VV	848	21572	0.35%	0.025%

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rteres

195	12.875	12.861	12.894	VV	306	4532	0.07%	0.005%
196	12.922	12.894	12.959	VV	441	12295		
197	12.981	12.959	13.003	VV	337	7993		
198	13.029	13.003	13.055	VV	2514	35645		
199	13.118	13.055	13.201	VV	515763	6138838	100	
200	13.223	13.201	13.243	VV	827	14542		
201	13.282	13.243	13.316	VV	277680	3328588	54.22%	3.883%
202	13.332	13.316	13.353	VV	1200	19496	0.32%	0.023%
203	13.377	13.353	13.431	VV	746	28520	0.46%	0.033%
204	13.454	13.431	13.472	VV	916	17087	0.28%	0.020%
205	13.514	13.472	13.528	VV	775	24411	0.40%	0.028%
206	13.551	13.528	13.560	VV	998	16882	0.28%	0.020%
207	13.573	13.560	13.613	VV	946	27462	0.45%	0.032%
208	13.628	13.613	13.641	VV	1002	14634	0.24%	0.017%
209	13.659	13.641	13.678	VV	1316	22596	0.37%	0.026%
210	13.712	13.678	13.753	VV	1561	52201	0.85%	0.061%
211	13.763	13.753	13.796	VV	1076	26518	0.43%	0.031%
212	13.816	13.796	13.831	VV	1849	31554	0.51%	0.037%
213	13.869	13.831	13.908	VV	270501	3335961	54.34%	3.892%
214	13.927	13.908	13.945	VV	1724	32669	0.53%	0.038%
215	13.957	13.945	13.969	VV	1298	17934	0.29%	0.021%
216	13.998	13.969	14.010	VV	1421	32444	0.53%	0.038%
217	14.022	14.010	14.043	VV	1412	27108	0.44%	0.032%
218	14.097	14.043	14.128	VV	2011	82653	1.35%	0.096%
219	14.162	14.128	14.176	VV	1757	46819	0.76%	0.055%
220	14.193	14.176	14.218	VV	1756	41486	0.68%	0.048%
221	14.264	14.218	14.273	VV	1941	57602	0.94%	0.067%
222	14.304	14.273	14.326	VV	3307	77653	1.26%	0.091%
223	14.336	14.326	14.358	VV	2203	40072	0.65%	0.047%
224	14.385	14.358	14.409	VV	2815	70199	1.14%	0.082%
225	14.431	14.409	14.462	VV	3200	80542	1.31%	0.094%
226	14.501	14.462	14.519	VV	2577	80346	1.31%	0.094%
227	14.571	14.519	14.591	VV	2546	104063	1.70%	0.121%
228	14.597	14.591	14.607	VV	2373	22805	0.37%	0.027%
229	14.637	14.607	14.664	VV	2786	86826	1.41%	0.101%
230	14.695	14.664	14.742	VV	3401	135001	2.20%	0.157%
231	14.753	14.742	14.768	VV	2661	42042	0.68%	0.049%
232	14.831	14.768	14.847	VV	3455	136739	2.23%	0.160%
233	14.915	14.847	14.936	VV	3839	181828	2.96%	0.212%
234	14.975	14.936	15.012	VV	248925	3417253	55.67%	3.986%
235	15.027	15.012	15.045	VV	3880	71820	1.17%	0.084%
236	15.055	15.045	15.072	VV	3524	53536	0.87%	0.062%
237	15.083	15.072	15.095	VV	3312	45089	0.73%	0.053%
238	15.112	15.095	15.134	VV	3374	76365	1.24%	0.089%
239	15.165	15.134	15.211	VV	3838	161758	2.63%	0.189%
240	15.224	15.211	15.239	VV	3821	60313	0.98%	0.070%
241	15.252	15.239	15.268	VV	3670	61762	1.01%	0.072%
242	15.294	15.268	15.314	VV	4015	105409	1.72%	0.123%
243	15.324	15.314	15.341	VV	3836	59852	0.97%	0.070%
244	15.414	15.341	15.467	VV	4234	291395	4.75%	0.340%
245	15.494	15.467	15.523	VV	6418	164335	2.68%	0.192%
246	15.540	15.523	15.585	VV	4513	150975	2.46%	0.176%

12

Instrument :
FID_C
ClientSampleId :
B-187-SB01MSD

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 06/12/2025
Supervised By :mohammad ahmed 06/13/2025

rteres

247	15.599	15.585	15.612	VV	3867	59603	0.97%	0.070%
248	15.635	15.612	15.651	VV	4047	88482		
249	15.674	15.651	15.707	VV	4096	130969		
250	15.721	15.707	15.751	VV	4236	107217		
251	15.760	15.751	15.783	VV	4218	78373		
252	15.809	15.783	15.838	VV	4448	138288		
253	15.848	15.838	15.856	VV	4421	48208	0.79%	0.056%
254	15.871	15.856	15.907	VV	4375	130623	2.13%	0.152%
255	15.922	15.907	15.938	VV	4302	74862	1.22%	0.087%
256	15.998	15.938	16.115	VV	242873	3660723	59.63%	4.270%
257	16.171	16.115	16.184	VV	4428	167672	2.73%	0.196%
258	16.192	16.184	16.265	VV	4622	206067	3.36%	0.240%
259	16.303	16.265	16.334	VV	4747	184476	3.01%	0.215%
260	16.345	16.334	16.388	VV	4709	146150	2.38%	0.170%
261	16.398	16.388	16.420	VV	4206	78966	1.29%	0.092%
262	16.478	16.420	16.547	VV	7049	366680	5.97%	0.428%
263	16.562	16.547	16.570	VV	4143	55115	0.90%	0.064%
264	16.644	16.570	16.662	VV	5023	245586	4.00%	0.286%
265	16.672	16.662	16.691	VV	4745	79001	1.29%	0.092%
266	16.700	16.691	16.720	VV	4842	78769	1.28%	0.092%
267	16.731	16.720	16.744	VV	4412	60610	0.99%	0.071%
268	16.761	16.744	16.774	VV	4554	80113	1.31%	0.093%
269	16.823	16.774	16.837	VV	5052	174333	2.84%	0.203%
270	16.847	16.837	16.889	VV	4930	139609	2.27%	0.163%
271	16.949	16.889	17.044	VV	250676	3601054	58.66%	4.201%
272	17.079	17.044	17.101	VV	4706	148734	2.42%	0.174%
273	17.108	17.101	17.126	VV	4401	64729	1.05%	0.076%
274	17.143	17.126	17.157	VV	4389	79267	1.29%	0.092%
275	17.194	17.157	17.224	VV	4963	185593	3.02%	0.217%
276	17.270	17.224	17.313	VV	5374	244815	3.99%	0.286%
277	17.328	17.313	17.344	VV	4370	77527	1.26%	0.090%
278	17.397	17.344	17.424	VV	5848	235281	3.83%	0.274%
279	17.433	17.424	17.459	VV	4221	84965	1.38%	0.099%
280	17.527	17.483	17.554	VV	4827	183966	3.00%	0.215%
281	17.572	17.554	17.591	VV	4149	86546	1.41%	0.101%
282	17.606	17.591	17.651	VV	3971	135615	2.21%	0.158%
283	17.694	17.651	17.703	VV	3944	115264	1.88%	0.134%
284	17.727	17.703	17.771	VV	6193	185026	3.01%	0.216%
285	17.838	17.771	17.881	VV	250445	3494321	56.92%	4.076%
286	17.889	17.881	17.944	VV	3616	128409	2.09%	0.150%
287	17.993	17.944	18.074	VV	4598	285774	4.66%	0.333%
288	18.099	18.074	18.158	VV	3266	155450	2.53%	0.181%
289	18.169	18.158	18.181	VV	3012	40500	0.66%	0.047%
290	18.196	18.181	18.209	VV	3332	54087	0.88%	0.063%
291	18.220	18.209	18.237	VV	3267	55017	0.90%	0.064%
292	18.260	18.237	18.293	VV	4762	118205	1.93%	0.138%
293	18.316	18.293	18.334	VV	2906	68582	1.12%	0.080%
294	18.361	18.334	18.378	VV	3455	80559	1.31%	0.094%
295	18.392	18.378	18.434	VV	3006	92665	1.51%	0.108%
296	18.443	18.434	18.457	VV	2511	32593	0.53%	0.038%
297	18.480	18.457	18.496	VV	2720	60099	0.98%	0.070%
298	18.515	18.496	18.548	VV	2718	78665	1.28%	0.092%
299	18.550	18.548	18.561	VV	2553	19335	0.31%	0.023%

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Instrument :
FID_C
ClientSampleId :
B-187-SB01MSD

rteres

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 06/12/2025
Supervised By :mohammad ahmed 06/13/2025

300	18.569	18.561	18.591	VV	2390	40896	0.67%	0.048%
301	18.603	18.591	18.624	VV	2229	42002		
302	18.674	18.624	18.758	VV	225620	3434188	55	
303	18.785	18.758	18.813	VV	2398	69937		
304	18.836	18.813	18.846	VV	2217	41513		
305	18.865	18.846	18.901	VV	2372	68549		
306	18.925	18.901	18.962	VV	2085	69145	1.13%	0.081%
307	18.976	18.962	18.998	VV	1815	36091	0.59%	0.042%
308	19.015	18.998	19.031	VV	1654	31700	0.52%	0.037%
309	19.070	19.031	19.156	VV	3619	147714	2.41%	0.172%
310	19.178	19.156	19.229	VV	1917	71483	1.16%	0.083%
311	19.248	19.229	19.260	VV	1770	29831	0.49%	0.035%
312	19.271	19.260	19.286	VV	1726	25431	0.41%	0.030%
313	19.317	19.286	19.344	VV	1701	54667	0.89%	0.064%
314	19.352	19.344	19.367	VV	1584	20781	0.34%	0.024%
315	19.388	19.367	19.407	VV	1575	35068	0.57%	0.041%
316	19.459	19.407	19.547	VV	227959	3449363	56.19%	4.024%
317	19.562	19.547	19.571	VV	1592	21528	0.35%	0.025%
318	19.589	19.571	19.607	VV	1708	34597	0.56%	0.040%
319	19.619	19.607	19.634	VV	1612	25051	0.41%	0.029%
320	19.673	19.634	19.688	VV	2173	64857	1.06%	0.076%
321	19.699	19.688	19.708	VV	2265	27304	0.44%	0.032%
322	19.714	19.708	19.721	VV	2201	16518	0.27%	0.019%
323	19.741	19.721	19.761	VV	2376	53606	0.87%	0.063%
324	19.778	19.761	19.794	VV	2179	41095	0.67%	0.048%
325	19.832	19.794	19.859	VV	3277	97818	1.59%	0.114%
326	19.893	19.859	19.921	VV	2307	81703	1.33%	0.095%
327	19.937	19.921	19.948	VV	2258	36028	0.59%	0.042%
328	19.992	19.948	20.002	VV	2486	77393	1.26%	0.090%
329	20.014	20.002	20.027	VV	2578	34799	0.57%	0.041%
330	20.038	20.027	20.051	VV	2353	32916	0.54%	0.038%
331	20.107	20.051	20.134	VV	2997	128630	2.10%	0.150%
332	20.201	20.134	20.251	VV	234949	3469415	56.52%	4.047%
333	20.266	20.251	20.287	VV	2933	61880	1.01%	0.072%
334	20.297	20.287	20.314	VV	2912	47511	0.77%	0.055%
335	20.325	20.314	20.349	VV	2974	59279	0.97%	0.069%
336	20.362	20.349	20.390	VV	2855	69956	1.14%	0.082%
337	20.507	20.390	20.545	VV	3995	314098	5.12%	0.366%
338	20.559	20.545	20.598	VV	3752	100481	1.64%	0.117%
339	20.603	20.598	20.628	VV	2565	44642	0.73%	0.052%
340	20.634	20.628	20.667	VV	2516	57584	0.94%	0.067%
341	20.678	20.667	20.695	VV	2462	41614	0.68%	0.049%
342	20.711	20.695	20.734	VV	2599	58226	0.95%	0.068%
343	20.765	20.734	20.776	VV	2499	61207	1.00%	0.071%
344	20.794	20.776	20.837	VV	2441	85437	1.39%	0.100%
345	20.850	20.837	20.907	VV	2375	91992	1.50%	0.107%
346	20.970	20.907	21.034	VV	171427	3366157	54.83%	3.927%
347	21.044	21.034	21.104	VV	2285	87302	1.42%	0.102%
348	21.117	21.104	21.135	VV	1955	35404	0.58%	0.041%
349	21.151	21.135	21.188	VV	1883	55774	0.91%	0.065%
350	21.193	21.188	21.248	VV	1732	57450	0.94%	0.067%
351	21.253	21.248	21.280	VV	1551	28256	0.46%	0.033%

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Instrument :
FID_C
ClientSampleId :
B-187-SB01MSD

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 06/12/2025
Supervised By :mohammad ahmed 06/13/2025

A B C D E F G H I J

rteres

352	21.318	21.280	21.328	VV	1436	39433	0.64%	0.046%
353	21.357	21.328	21.378	VV	1427	40748		
354	21.414	21.378	21.464	VV	1939	81085		
355	21.474	21.464	21.488	VV	1248	17043		
356	21.514	21.488	21.541	VV	1288	39761		
357	21.550	21.541	21.644	VV	1280	69496		
358	21.656	21.644	21.695	VV	939	27094	0.44%	0.032%
359	21.705	21.695	21.731	VV	870	18090	0.29%	0.021%
360	21.745	21.731	21.763	VV	911	15948	0.26%	0.019%
361	21.794	21.763	21.863	VV	1039	50096	0.82%	0.058%
362	21.939	21.863	22.093	VV	115545	2997687	48.83%	3.497%
363	22.107	22.093	22.117	VV	696	9626	0.16%	0.011%
364	22.133	22.117	22.211	VV	707	32541	0.53%	0.038%
365	22.218	22.211	22.372	VV	580	31274	0.51%	0.036%

Sum of corrected areas: 85722590

Aliphatic EPH 052425.M Thu Jun 12 07:05:00 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD061325AR\
Data File : FD049485.D
Signal(s) : FID2B.ch
Acq On : 13 Jun 2025 10:28
Operator : YP/AJ
Sample : Q2177-02MSD
Misc :
ALS Vial : 64 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
B-187-SB01MSD

Integration File: autoint1.e
Quant Time: Jun 13 21:20:18 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 052425.M
Quant Title : GC Extractables
QLast Update : Tue May 27 03:11:40 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
4) S	2-Bromonaphthalene (S...	7.733	6422490	38.635 ug/ml
Spiked Amount	50.000		Recovery =	77.27%
6) S	2-Flurobiphenyl (SURR)	8.599	4310794	37.683 ug/ml
Spiked Amount	50.000 Range	0 - 131	Recovery =	75.37%
11) S	ortho-Terphenyl (SURR)	11.644	6612603	32.944 ug/ml
Spiked Amount	50.000		Recovery =	65.89%
	Target Compounds			
1) T	1,2,3-Trimethylbenzen...	4.524	2066500	12.988 ug/ml
2) T	Naphthalene (C11.7)	6.067	2554939	14.551 ug/ml
3) T	2-Methylnaphthalene (...	7.121	2609761	14.608 ug/ml
5) T	Acenaphthylene (C15.06)	8.401	3078661	15.893 ug/ml
7) T	Acenaphthene (C15.5)	8.696	3179562	16.715 ug/ml
8) T	Flouorene (C16.55)	9.477	3339048	17.078 ug/ml
9) T	Phenanthrene (C19.36)	10.876	3627949	19.080 ug/ml
10) T	Anthracene (C19.43)	10.950	3257528	18.634 ug/ml
12) T	Fluoranthene (C21.85)	12.690	3658473	20.282 ug/ml
13) T	Pyrene (C20.8)	12.988	3565559	19.977 ug/ml
14) T	Benzo[a]anthracene (C...	14.859	3096764	20.375 ug/ml
15) T	Chrysene (C27.41)	14.902	3386617	22.302 ug/ml
16) T	benzo[b]fluoranthene ...	16.409	3021110	20.872 ug/ml
17) T	Bnezo[k]fluoranthene ...	16.442	2904297	20.239 ug/ml
18) T	Benzo[a]pyrene (C31.34)	16.789	2870129	21.117 ug/ml
19) T	Indeno[1,2,3-cd]pyren...	18.153	2943227	23.042 ug/ml
20) T	Dibenz[a,h]anthracene...	18.193	2786556	20.699 ug/ml
21) T	Benzo[g,h,i]perylene ...	18.409	2739045	20.322 ug/ml

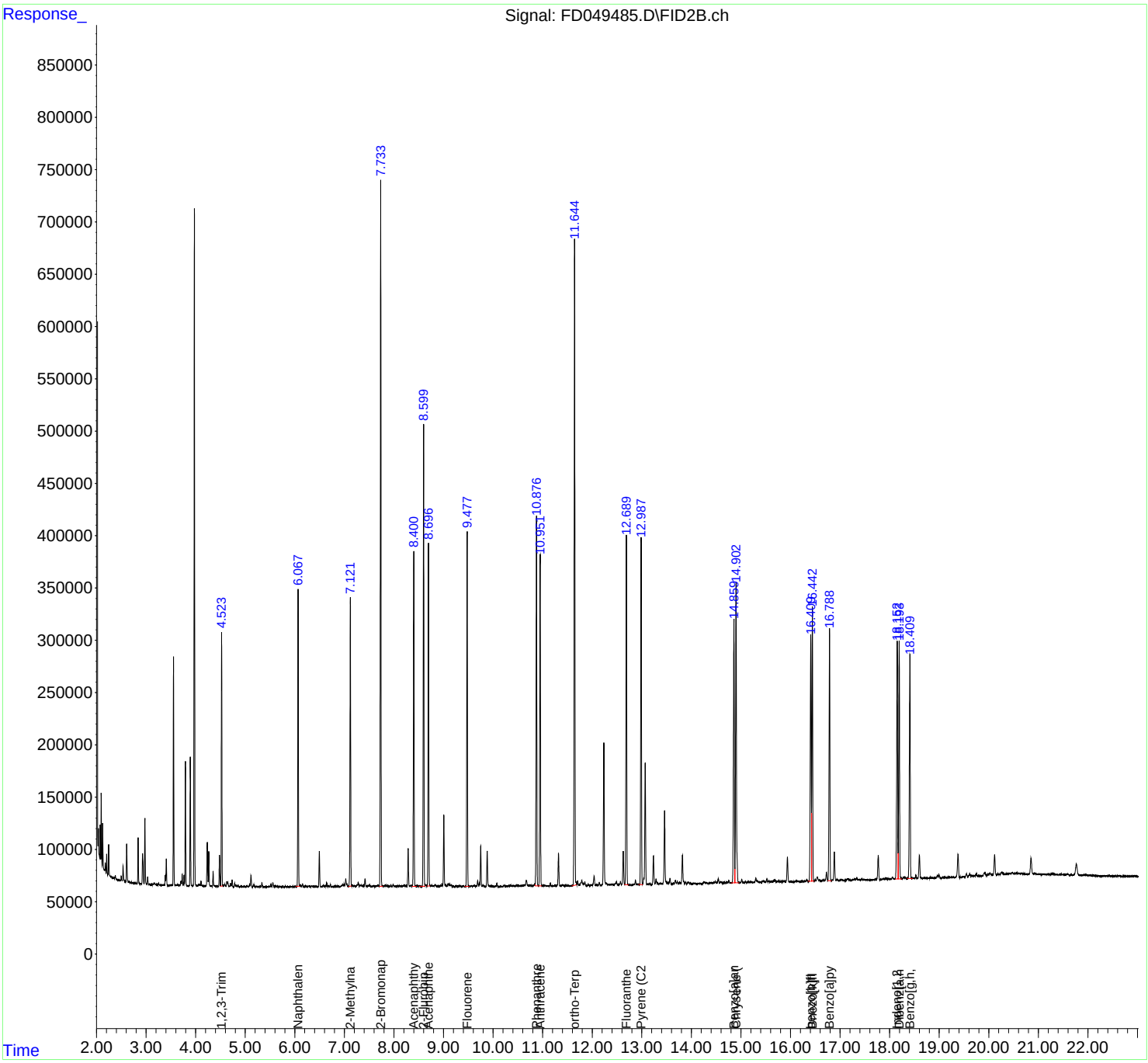
(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD061325AR\
Data File : FD049485.D
Signal(s) : FID2B.ch
Acq On : 13 Jun 2025 10:28
Operator : YP/AJ
Sample : Q2177-02MSD
Misc :
ALS Vial : 64 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
B-187-SB01MSD

Integration File: autoint1.e
Quant Time: Jun 13 21:20:18 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 052425.M
Quant Title : GC Extractables
QLast Update : Tue May 27 03:11:40 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm



rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD061325AR\
Data File : FD049485.D
Signal(s) : FID2B.ch
Acq On : 13 Jun 2025 10:28
Sample : Q2177-02MSD
Misc :
ALS Vial : 64 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 052425.M
Title : GC Extractables

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.265	4.252	4.308	PH	33372	289960	4.36%	0.327%
2	4.323	4.308	4.331	PV	317	2173	0.03%	0.002%
3	4.352	4.331	4.370	PV	14111	111883	1.68%	0.126%
4	4.373	4.370	4.404	VV	899	8077	0.12%	0.009%
5	4.414	4.404	4.425	VV	230	2074	0.03%	0.002%
6	4.430	4.425	4.451	VV	545	3278	0.05%	0.004%
7	4.481	4.458	4.502	PV	30062	265773	3.99%	0.299%
8	4.524	4.502	4.549	VV	242594	2080660	31.25%	2.343%
9	4.562	4.549	4.572	VV	1174	12949	0.19%	0.015%
10	4.586	4.572	4.610	VV	2354	30661	0.46%	0.035%
11	4.630	4.610	4.641	VV	5058	54585	0.82%	0.061%
12	4.650	4.641	4.677	VV	4281	42921	0.64%	0.048%
13	4.706	4.677	4.719	VV	3330	34594	0.52%	0.039%
14	4.736	4.719	4.758	VV	6495	61886	0.93%	0.070%
15	4.788	4.758	4.804	VV	3495	32077	0.48%	0.036%
16	4.815	4.804	4.842	VV	1585	18625	0.28%	0.021%
17	4.853	4.842	4.885	VV	834	9747	0.15%	0.011%
18	4.899	4.885	4.914	PV	253	2744	0.04%	0.003%
19	4.927	4.914	4.944	VV	575	5406	0.08%	0.006%
20	4.954	4.944	4.966	VV	293	2869	0.04%	0.003%
21	4.978	4.966	4.982	VV	447	2857	0.04%	0.003%
22	4.986	4.982	5.006	VV	509	4825	0.07%	0.005%
23	5.038	5.006	5.066	VV	758	15795	0.24%	0.018%
24	5.090	5.066	5.099	VV	2455	24217	0.36%	0.027%
25	5.116	5.099	5.148	VV	11171	121229	1.82%	0.137%
26	5.173	5.148	5.209	VV	2332	31720	0.48%	0.036%
27	5.224	5.209	5.242	VV	663	8477	0.13%	0.010%
28	5.247	5.242	5.259	VV	313	1374	0.02%	0.002%
29	5.294	5.259	5.298	PV	612	8256	0.12%	0.009%
30	5.307	5.298	5.322	VV	798	7032	0.11%	0.008%
31	5.337	5.322	5.382	VV	4136	44625	0.67%	0.050%
32	5.395	5.382	5.428	VV	541	8839	0.13%	0.010%
33	5.440	5.428	5.450	VV	332	2147	0.03%	0.002%
34	5.483	5.450	5.497	VV	770	10926	0.16%	0.012%
35	5.517	5.497	5.535	VV	2524	27752	0.42%	0.031%
36	5.559	5.535	5.602	VV	4058	56388	0.85%	0.064%

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37	5.615	5.602	5.645	VV	1141	15427	0.23%	0.017%
38	5.655	5.645	5.663	VV	497	3170	0.05%	0.004%
39	5.669	5.663	5.689	VV	443	5094	0.08%	0.006%
40	5.700	5.689	5.742	VV	578	8434	0.13%	0.009%
41	5.762	5.742	5.781	VV	480	5522	0.08%	0.006%
42	5.786	5.781	5.795	VV	165	1033	0.02%	0.001%
43	5.809	5.795	5.842	VV	819	11225	0.17%	0.013%
44	5.863	5.842	5.873	VV	529	6648	0.10%	0.007%
45	5.881	5.873	5.910	VV	439	7452	0.11%	0.008%
46	5.921	5.910	5.952	VV	531	9942	0.15%	0.011%
47	5.970	5.952	5.982	VV	624	7182	0.11%	0.008%
48	6.002	5.982	6.015	VV	541	8378	0.13%	0.009%
49	6.020	6.015	6.028	VV	742	4325	0.06%	0.005%
50	6.067	6.028	6.101	VV	284940	2588810	38.89%	2.915%
51	6.114	6.101	6.139	VV	1830	23583	0.35%	0.027%
52	6.156	6.139	6.187	VV	3145	38690	0.58%	0.044%
53	6.219	6.187	6.247	VV	1139	24296	0.36%	0.027%
54	6.254	6.247	6.262	VV	556	4394	0.07%	0.005%
55	6.286	6.262	6.317	VV	1011	21905	0.33%	0.025%
56	6.319	6.317	6.324	VV	408	1532	0.02%	0.002%
57	6.344	6.324	6.368	VV	1294	18454	0.28%	0.021%
58	6.375	6.368	6.403	VV	547	9001	0.14%	0.010%
59	6.408	6.403	6.414	VV	428	2505	0.04%	0.003%
60	6.418	6.414	6.424	VV	429	2126	0.03%	0.002%
61	6.433	6.424	6.442	VV	435	3991	0.06%	0.004%
62	6.459	6.442	6.464	VV	533	5203	0.08%	0.006%
63	6.496	6.464	6.525	VV	34265	335883	5.05%	0.378%
64	6.538	6.525	6.550	VV	676	7191	0.11%	0.008%
65	6.582	6.550	6.602	VV	1424	25940	0.39%	0.029%
66	6.614	6.602	6.629	VV	1347	14282	0.21%	0.016%
67	6.646	6.629	6.669	VV	3674	42520	0.64%	0.048%
68	6.677	6.669	6.692	VV	955	9904	0.15%	0.011%
69	6.718	6.692	6.737	VV	1948	23098	0.35%	0.026%
70	6.770	6.737	6.796	VV	606	13896	0.21%	0.016%
71	6.822	6.796	6.849	VV	1012	14940	0.22%	0.017%
72	6.878	6.849	6.885	VV	735	10993	0.17%	0.012%
73	6.890	6.885	6.918	VV	734	7071	0.11%	0.008%
74	6.940	6.918	6.951	VV	1464	18390	0.28%	0.021%
75	6.964	6.951	6.977	VV	2872	29495	0.44%	0.033%
76	6.992	6.977	7.005	VV	2603	32741	0.49%	0.037%
77	7.029	7.005	7.079	VV	7736	127424	1.91%	0.143%
78	7.121	7.079	7.147	VV	276791	2637346	39.61%	2.970%
79	7.154	7.147	7.184	VV	1432	24288	0.36%	0.027%
80	7.198	7.184	7.212	VV	1331	15427	0.23%	0.017%
81	7.226	7.212	7.240	VV	1008	11120	0.17%	0.013%
82	7.257	7.240	7.265	VV	1941	20541	0.31%	0.023%
83	7.280	7.265	7.300	VV	4624	56890	0.85%	0.064%
84	7.311	7.300	7.323	VV	1597	19162	0.29%	0.022%
85	7.336	7.323	7.366	VV	1927	33049	0.50%	0.037%
86	7.384	7.366	7.397	VV	1861	24571	0.37%	0.028%
87	7.418	7.397	7.442	VV	7804	90523	1.36%	0.102%
88	7.459	7.442	7.464	VV	1003	9770	0.15%	0.011%
89	7.483	7.464	7.498	VV	1194	17752	0.27%	0.020%

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90	7.510	7.498	7.535	VV	1650	22579	0.34%	0.025%
91	7.539	7.535	7.548	VV	549	3993	0.06%	0.004%
92	7.560	7.548	7.565	VV	624	5457	0.08%	0.006%
93	7.594	7.565	7.615	VV	1144	23239	0.35%	0.026%
94	7.650	7.615	7.661	VV	975	18901	0.28%	0.021%
95	7.680	7.661	7.700	VV	2134	27145	0.41%	0.031%
96	7.733	7.700	7.778	VV	676068	6448524	96.86%	7.262%
97	7.782	7.778	7.802	VV	845	9906	0.15%	0.011%
98	7.821	7.802	7.835	VV	1310	20100	0.30%	0.023%
99	7.845	7.835	7.861	VV	1267	14602	0.22%	0.016%
100	7.874	7.861	7.886	VV	1187	13284	0.20%	0.015%
101	7.896	7.886	7.920	VV	874	13441	0.20%	0.015%
102	7.940	7.920	7.960	VV	1138	15683	0.24%	0.018%
103	7.984	7.960	8.016	VV	2612	35642	0.54%	0.040%
104	8.040	8.016	8.057	VV	1103	16170	0.24%	0.018%
105	8.071	8.057	8.095	VV	816	14627	0.22%	0.016%
106	8.111	8.095	8.147	VV	1368	22444	0.34%	0.025%
107	8.159	8.147	8.164	VV	569	4742	0.07%	0.005%
108	8.192	8.164	8.197	VV	1180	18328	0.28%	0.021%
109	8.213	8.197	8.264	VV	1531	43272	0.65%	0.049%
110	8.287	8.264	8.314	VV	36774	379780	5.70%	0.428%
111	8.319	8.314	8.330	VV	822	6758	0.10%	0.008%
112	8.345	8.330	8.365	VV	1831	22426	0.34%	0.025%
113	8.401	8.365	8.464	VV	320467	3106049	46.66%	3.498%
114	8.483	8.464	8.503	VV	1212	18559	0.28%	0.021%
115	8.521	8.503	8.555	VV	924	16188	0.24%	0.018%
116	8.599	8.555	8.629	VV	442124	4332037	65.07%	4.878%
117	8.650	8.629	8.667	VV	2111	34077	0.51%	0.038%
118	8.696	8.667	8.737	VV	329014	3215437	48.30%	3.621%
119	8.743	8.737	8.761	VV	1250	14842	0.22%	0.017%
120	8.774	8.761	8.792	VV	1173	17516	0.26%	0.020%
121	8.798	8.792	8.807	VV	912	7543	0.11%	0.008%
122	8.822	8.807	8.837	VV	1854	23226	0.35%	0.026%
123	8.843	8.837	8.864	VV	1289	13799	0.21%	0.016%
124	8.896	8.864	8.917	VV	657	15038	0.23%	0.017%
125	8.938	8.917	8.951	VV	1238	14745	0.22%	0.017%
126	8.967	8.951	8.981	VV	2353	26139	0.39%	0.029%
127	9.007	8.981	9.031	VV	68664	676147	10.16%	0.761%
128	9.041	9.031	9.075	VV	1608	32989	0.50%	0.037%
129	9.091	9.075	9.100	VV	2402	27225	0.41%	0.031%
130	9.105	9.100	9.114	VV	2114	16389	0.25%	0.018%
131	9.126	9.114	9.147	VV	2487	36508	0.55%	0.041%
132	9.160	9.147	9.180	VV	1996	23629	0.35%	0.027%
133	9.194	9.180	9.218	VV	779	9255	0.14%	0.010%
134	9.252	9.218	9.275	VV	596	10156	0.15%	0.011%
135	9.292	9.275	9.312	VV	829	11140	0.17%	0.013%
136	9.330	9.312	9.370	VV	1096	18108	0.27%	0.020%
137	9.394	9.370	9.426	PV	848	16992	0.26%	0.019%
138	9.440	9.426	9.445	VV	463	4006	0.06%	0.005%
139	9.477	9.445	9.535	VV	338962	3357500	50.43%	3.781%
140	9.557	9.535	9.587	VV	833	17618	0.26%	0.020%
141	9.623	9.587	9.642	VV	1327	30652	0.46%	0.035%

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142	9.651	9.642	9.670	VV	803	10937	0.16%	0.012%
143	9.690	9.670	9.706	VV	5895	63650	0.96%	0.072%
144	9.722	9.706	9.732	VV	3411	35470	0.53%	0.040%
145	9.751	9.732	9.780	VV	39159	395601	5.94%	0.445%
146	9.797	9.780	9.819	VV	1577	22426	0.34%	0.025%
147	9.823	9.819	9.837	VV	635	4601	0.07%	0.005%
148	9.840	9.837	9.850	VV	269	2033	0.03%	0.002%
149	9.882	9.850	9.924	VV	34068	373081	5.60%	0.420%
150	9.928	9.924	9.937	VV	533	2620	0.04%	0.003%
151	9.961	9.937	9.979	VV	732	13165	0.20%	0.015%
152	9.989	9.979	10.010	VV	521	6890	0.10%	0.008%
153	10.024	10.010	10.030	VV	308	2514	0.04%	0.003%
154	10.077	10.030	10.119	VV	3639	49570	0.74%	0.056%
155	10.127	10.119	10.140	VV	356	2777	0.04%	0.003%
156	10.145	10.140	10.149	VV	214	1021	0.02%	0.001%
157	10.163	10.149	10.176	VV	525	4469	0.07%	0.005%
158	10.223	10.176	10.246	PV	1551	24552	0.37%	0.028%
159	10.252	10.246	10.257	VV	512	2576	0.04%	0.003%
160	10.276	10.257	10.287	VV	785	9226	0.14%	0.010%
161	10.319	10.287	10.337	VV	893	17846	0.27%	0.020%
162	10.356	10.337	10.381	VV	1586	26331	0.40%	0.030%
163	10.400	10.381	10.424	VV	1163	19552	0.29%	0.022%
164	10.432	10.424	10.438	VV	550	3034	0.05%	0.003%
165	10.444	10.438	10.450	VV	522	2929	0.04%	0.003%
166	10.470	10.450	10.510	VV	1246	30958	0.47%	0.035%
167	10.522	10.510	10.542	VV	1252	16800	0.25%	0.019%
168	10.548	10.542	10.559	VV	768	7165	0.11%	0.008%
169	10.570	10.559	10.584	VV	968	10645	0.16%	0.012%
170	10.610	10.584	10.626	VV	1307	23386	0.35%	0.026%
171	10.639	10.626	10.650	VV	1334	16494	0.25%	0.019%
172	10.673	10.650	10.697	VV	5550	95214	1.43%	0.107%
173	10.710	10.697	10.725	VV	1063	14945	0.22%	0.017%
174	10.752	10.725	10.766	VV	1286	24580	0.37%	0.028%
175	10.771	10.766	10.797	VV	776	11119	0.17%	0.013%
176	10.817	10.797	10.825	VV	1031	14009	0.21%	0.016%
177	10.841	10.825	10.848	VV	2789	26735	0.40%	0.030%
178	10.876	10.848	10.920	VV	355132	3652813	54.87%	4.114%
179	10.950	10.920	10.989	VV	317005	3279607	49.26%	3.693%
180	10.992	10.989	11.013	VV	721	8940	0.13%	0.010%
181	11.029	11.013	11.042	VV	917	14226	0.21%	0.016%
182	11.047	11.042	11.101	VV	969	20800	0.31%	0.023%
183	11.106	11.101	11.110	VV	406	1700	0.03%	0.002%
184	11.115	11.110	11.125	VV	416	3300	0.05%	0.004%
185	11.131	11.125	11.136	VV	358	1952	0.03%	0.002%
186	11.156	11.136	11.206	VV	3253	40780	0.61%	0.046%
187	11.253	11.206	11.260	PV	761	12810	0.19%	0.014%
188	11.262	11.260	11.273	VV	680	3952	0.06%	0.004%
189	11.320	11.273	11.348	VV	31405	361818	5.43%	0.407%
190	11.409	11.348	11.445	VV	1168	33766	0.51%	0.038%
191	11.472	11.445	11.497	VV	923	14643	0.22%	0.016%
192	11.522	11.497	11.549	VV	653	11095	0.17%	0.012%
193	11.565	11.549	11.579	VV	399	4673	0.07%	0.005%
194	11.644	11.579	11.689	VV	616910	6657445	100.00%	7.497%

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195	11.705	11.689	11.725	VV	5133	62336	0.94%	0.070%
196	11.738	11.725	11.754	VV	1452	18711	0.28%	0.021%
197	11.770	11.754	11.775	VV	2993	27709	0.42%	0.031%
198	11.790	11.775	11.814	VV	5259	84384	1.27%	0.095%
199	11.822	11.814	11.836	VV	2801	28554	0.43%	0.032%
200	11.852	11.836	11.879	VV	3683	46376	0.70%	0.052%
201	11.920	11.879	11.945	PV	1068	18566	0.28%	0.021%
202	11.983	11.945	12.004	VV	1054	23273	0.35%	0.026%
203	12.038	12.004	12.065	VV	9506	139923	2.10%	0.158%
204	12.079	12.065	12.098	VV	1458	18306	0.27%	0.021%
205	12.104	12.098	12.107	VV	574	2787	0.04%	0.003%
206	12.143	12.107	12.163	VV	3093	43545	0.65%	0.049%
207	12.178	12.163	12.184	VV	570	5560	0.08%	0.006%
208	12.235	12.184	12.279	VV	136715	1628690	24.46%	1.834%
209	12.291	12.279	12.318	VV	2014	35381	0.53%	0.040%
210	12.322	12.318	12.333	VV	1036	7825	0.12%	0.009%
211	12.346	12.333	12.355	VV	975	11566	0.17%	0.013%
212	12.367	12.355	12.377	VV	975	11151	0.17%	0.013%
213	12.394	12.377	12.402	VV	1218	15376	0.23%	0.017%
214	12.410	12.402	12.430	VV	1158	15110	0.23%	0.017%
215	12.434	12.430	12.445	VV	675	5500	0.08%	0.006%
216	12.465	12.445	12.472	VV	2071	24412	0.37%	0.027%
217	12.488	12.472	12.509	VV	3455	50167	0.75%	0.056%
218	12.518	12.509	12.532	VV	1033	11414	0.17%	0.013%
219	12.541	12.532	12.550	VV	876	7572	0.11%	0.009%
220	12.570	12.550	12.588	VV	3332	43304	0.65%	0.049%
221	12.626	12.588	12.653	VV	32704	405645	6.09%	0.457%
222	12.690	12.653	12.736	VV	335181	3688250	55.40%	4.153%
223	12.755	12.736	12.771	VV	618	8612	0.13%	0.010%
224	12.776	12.771	12.799	VV	393	4366	0.07%	0.005%
225	12.820	12.799	12.827	VV	515	6174	0.09%	0.007%
226	12.843	12.827	12.857	VV	784	10464	0.16%	0.012%
227	12.873	12.857	12.896	VV	4737	57020	0.86%	0.064%
228	12.900	12.896	12.915	VV	1022	9817	0.15%	0.011%
229	12.922	12.915	12.939	VV	829	8619	0.13%	0.010%
230	12.945	12.939	12.955	VV	375	3103	0.05%	0.003%
231	12.988	12.955	13.014	VV	331679	3582296	53.81%	4.034%
232	13.041	13.014	13.046	VV	6880	71312	1.07%	0.080%
233	13.070	13.046	13.100	VV	116896	1363539	20.48%	1.536%
234	13.116	13.100	13.139	VV	727	12677	0.19%	0.014%
235	13.156	13.139	13.180	VV	1746	23755	0.36%	0.027%
236	13.193	13.180	13.204	VV	461	4752	0.07%	0.005%
237	13.236	13.204	13.266	VV	27790	348028	5.23%	0.392%
238	13.288	13.266	13.310	VV	5594	78669	1.18%	0.089%
239	13.315	13.310	13.340	VV	1689	20903	0.31%	0.024%
240	13.378	13.340	13.395	VV	1505	30338	0.46%	0.034%
241	13.408	13.395	13.420	VV	944	11328	0.17%	0.013%
242	13.461	13.420	13.534	VV	70509	912449	13.71%	1.028%
243	13.569	13.534	13.598	VV	5951	101400	1.52%	0.114%
244	13.607	13.598	13.619	VV	543	6164	0.09%	0.007%
245	13.639	13.619	13.656	VV	1253	18633	0.28%	0.021%
246	13.677	13.656	13.700	VV	3782	56755	0.85%	0.064%

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247	13.716	13.700	13.733	VV	2692	34126	0.51%	0.038%
248	13.738	13.733	13.748	VV	881	7111	0.11%	0.008%
249	13.766	13.748	13.790	VV	1916	31130	0.47%	0.035%
250	13.820	13.790	13.868	VV	27899	379403	5.70%	0.427%
251	13.886	13.868	13.910	VV	2151	29032	0.44%	0.033%
252	13.931	13.910	13.973	VV	1714	40473	0.61%	0.046%
253	13.993	13.973	14.014	VV	362	6093	0.09%	0.007%
254	14.036	14.014	14.042	VV	466	6410	0.10%	0.007%
255	14.050	14.042	14.056	VV	650	4797	0.07%	0.005%
256	14.064	14.056	14.093	VV	689	10297	0.15%	0.012%
257	14.099	14.093	14.112	VV	446	3217	0.05%	0.004%
258	14.125	14.112	14.136	PV	287	2942	0.04%	0.003%
259	14.146	14.136	14.172	VV	403	5617	0.08%	0.006%
260	14.179	14.172	14.192	VV	208	1404	0.02%	0.002%
261	14.214	14.199	14.226	VV	490	5754	0.09%	0.006%
262	14.257	14.226	14.284	VV	1826	38040	0.57%	0.043%
263	14.299	14.284	14.332	VV	1579	26584	0.40%	0.030%
264	14.340	14.332	14.347	VV	539	4814	0.07%	0.005%
265	14.386	14.347	14.394	VV	1068	21528	0.32%	0.024%
266	14.404	14.394	14.420	VV	1070	13004	0.20%	0.015%
267	14.443	14.420	14.453	VV	1021	13696	0.21%	0.015%
268	14.482	14.453	14.499	VV	2169	34319	0.52%	0.039%
269	14.505	14.499	14.514	VV	1093	8492	0.13%	0.010%
270	14.517	14.514	14.523	VV	943	4978	0.07%	0.006%
271	14.544	14.523	14.567	VV	4737	64389	0.97%	0.073%
272	14.598	14.567	14.627	VV	1609	35357	0.53%	0.040%
273	14.669	14.627	14.682	VV	921	17855	0.27%	0.020%
274	14.693	14.682	14.699	VV	802	7472	0.11%	0.008%
275	14.707	14.699	14.711	VV	912	6522	0.10%	0.007%
276	14.727	14.711	14.738	VV	1148	15310	0.23%	0.017%
277	14.757	14.738	14.780	VV	2808	39396	0.59%	0.044%
278	14.786	14.780	14.796	VV	406	3749	0.06%	0.004%
279	14.805	14.796	14.824	VV	559	7056	0.11%	0.008%
280	14.859	14.824	14.879	VV	252949	3110285	46.72%	3.503%
281	14.902	14.879	14.978	VV	288163	3410205	51.22%	3.840%
282	14.982	14.978	14.985	VV	361	1506	0.02%	0.002%
283	15.017	14.985	15.037	VV	3614	49399	0.74%	0.056%
284	15.055	15.037	15.073	VV	840	12650	0.19%	0.014%
285	15.092	15.073	15.112	VV	1520	20832	0.31%	0.023%
286	15.117	15.112	15.129	VV	464	4021	0.06%	0.005%
287	15.149	15.129	15.170	VV	1128	18521	0.28%	0.021%
288	15.193	15.170	15.206	VV	1039	17234	0.26%	0.019%
289	15.214	15.206	15.267	VV	822	16389	0.25%	0.018%
290	15.300	15.267	15.359	VV	4250	105975	1.59%	0.119%
291	15.363	15.359	15.393	VV	787	10753	0.16%	0.012%
292	15.456	15.393	15.474	VV	1769	46189	0.69%	0.052%
293	15.480	15.474	15.501	VV	1146	13658	0.21%	0.015%
294	15.524	15.501	15.545	VV	3080	43007	0.65%	0.048%
295	15.561	15.545	15.590	VV	1803	28651	0.43%	0.032%
296	15.604	15.590	15.620	VV	1164	15463	0.23%	0.017%
297	15.668	15.620	15.675	VV	1814	36107	0.54%	0.041%
298	15.683	15.675	15.719	VV	2087	36129	0.54%	0.041%
299	15.734	15.719	15.740	VV	726	7269	0.11%	0.008%

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300	15.764	15.740	15.788	VV	1606	28137	0.42%	0.032%
301	15.800	15.788	15.808	VV	646	7041	0.11%	0.008%
302	15.812	15.808	15.824	VV	672	4747	0.07%	0.005%
303	15.847	15.824	15.859	VV	777	12236	0.18%	0.014%
304	15.874	15.859	15.892	VV	1176	15123	0.23%	0.017%
305	15.938	15.892	15.972	VV	24049	321963	4.84%	0.363%
306	15.996	15.972	16.005	VV	520	6311	0.09%	0.007%
307	16.008	16.005	16.013	VV	426	1223	0.02%	0.001%
308	16.019	16.013	16.026	VV	315	1696	0.03%	0.002%
309	16.034	16.026	16.040	VV	259	1359	0.02%	0.002%
310	16.054	16.040	16.059	VV	202	1187	0.02%	0.001%
311	16.066	16.059	16.077	PV	213	1453	0.02%	0.002%
312	16.084	16.077	16.097	VV	333	3371	0.05%	0.004%
313	16.134	16.097	16.143	VV	843	17357	0.26%	0.020%
314	16.146	16.143	16.171	VV	580	6433	0.10%	0.007%
315	16.192	16.171	16.209	PV	524	5122	0.08%	0.006%
316	16.232	16.209	16.255	VV	818	12243	0.18%	0.014%
317	16.275	16.255	16.282	VV	552	6459	0.10%	0.007%
318	16.327	16.282	16.363	VV	1276	33263	0.50%	0.037%
319	16.409	16.363	16.425	VV	235796	3035183	45.59%	3.418%
320	16.442	16.425	16.476	VV	262608	2917247	43.82%	3.285%
321	16.500	16.476	16.519	VV	1392	25055	0.38%	0.028%
322	16.541	16.519	16.631	VV	4378	104257	1.57%	0.117%
323	16.656	16.631	16.675	VV	1841	25673	0.39%	0.029%
324	16.726	16.675	16.754	VV	8569	130044	1.95%	0.146%
325	16.789	16.754	16.825	VV	240711	2888494	43.39%	3.253%
326	16.885	16.825	16.917	VV	27998	382678	5.75%	0.431%
327	16.934	16.917	16.973	VV	1524	29316	0.44%	0.033%
328	16.981	16.973	16.987	VV	412	2932	0.04%	0.003%
329	17.032	16.987	17.068	VV	1093	33297	0.50%	0.037%
330	17.090	17.068	17.105	VV	612	8381	0.13%	0.009%
331	17.151	17.105	17.187	VV	1735	48797	0.73%	0.055%
332	17.191	17.187	17.222	VV	871	11131	0.17%	0.013%
333	17.245	17.222	17.263	VV	815	14734	0.22%	0.017%
334	17.278	17.263	17.293	VV	1254	18552	0.28%	0.021%
335	17.307	17.293	17.315	VV	1264	14650	0.22%	0.016%
336	17.335	17.315	17.359	VV	2390	39008	0.59%	0.044%
337	17.368	17.359	17.379	VV	930	9360	0.14%	0.011%
338	17.393	17.379	17.415	VV	836	11752	0.18%	0.013%
339	17.438	17.415	17.464	VV	1537	24277	0.36%	0.027%
340	17.479	17.464	17.497	VV	838	9802	0.15%	0.011%
341	17.516	17.497	17.535	VV	655	10175	0.15%	0.011%
342	17.552	17.535	17.576	VV	599	8086	0.12%	0.009%
343	17.588	17.576	17.604	VV	268	1905	0.03%	0.002%
344	17.623	17.604	17.645	VV	462	6499	0.10%	0.007%
345	17.665	17.645	17.677	PV	459	4309	0.06%	0.005%
346	17.709	17.677	17.714	VV	457	6942	0.10%	0.008%
347	17.770	17.714	17.807	VV	23581	329445	4.95%	0.371%
348	17.833	17.807	17.839	VV	466	6223	0.09%	0.007%
349	17.864	17.839	17.887	VV	1016	20004	0.30%	0.023%
350	17.910	17.887	17.922	VV	960	14914	0.22%	0.017%
351	17.936	17.922	17.979	VV	1152	27108	0.41%	0.031%

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352	17.990	17.979	18.024	VV	622	11557	0.17%	0.013%
353	18.056	18.024	18.079	VV	2194	37095	0.56%	0.042%
354	18.085	18.079	18.105	VV	732	8635	0.13%	0.010%
355	18.153	18.105	18.171	VV	227202	2958632	44.44%	3.332%
356	18.193	18.171	18.225	VV	228273	2788128	41.88%	3.140%
357	18.229	18.225	18.252	VV	1329	14271	0.21%	0.016%
358	18.281	18.252	18.296	VV	2118	31554	0.47%	0.036%
359	18.311	18.296	18.353	VV	1875	36421	0.55%	0.041%
360	18.358	18.353	18.367	VV	621	4841	0.07%	0.005%
361	18.409	18.367	18.473	VV	214779	2768118	41.58%	3.117%
362	18.484	18.473	18.504	VV	965	12945	0.19%	0.015%
363	18.530	18.504	18.555	VV	2803	42898	0.64%	0.048%
364	18.600	18.555	18.670	VV	22467	332399	4.99%	0.374%
365	18.704	18.670	18.734	VV	737	14186	0.21%	0.016%
366	18.746	18.734	18.753	VV	429	2765	0.04%	0.003%
367	18.759	18.753	18.780	VV	425	5111	0.08%	0.006%
368	18.830	18.788	18.847	PV	750	13737	0.21%	0.015%
369	18.855	18.847	18.865	VV	523	4067	0.06%	0.005%
370	18.874	18.865	18.889	VV	421	4381	0.07%	0.005%
371	18.908	18.889	18.922	PV	268	2819	0.04%	0.003%
372	18.962	18.922	18.977	PV	1241	10962	0.16%	0.012%

Sum of corrected areas: 88799371

Aromatic EPH 052425.M Fri Jun 13 22:45:29 2025

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

Manual Integration Report

Sequence:	FC052425AL	Instrument	FID_c

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
20 PPM ALIPHATIC HC	FC069003.D	n-Octacosane (C28)	yogesh	5/27/2025 7:30:02 AM	mohammad	5/28/2025 1:48:12	Peak Integrated by Software
20 PPM ALIPHATIC HC	FC069003.D	n-Tetracosane (C24)	yogesh	5/27/2025 7:30:02 AM	mohammad	5/28/2025 1:48:12	Peak Integrated by Software

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Manual Integration Report

Sequence:	FC060925AL	Instrument	FID_c

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
20 PPM ALIPHATIC HC	FC069133.D	n-Octacosane (C28)	yogesh	6/10/2025 7:52:28 AM	mohammad	6/11/2025 2:15:53	Peak Integrated by Software
20 PPM ALIPHATIC HC	FC069133.D	n-Octadecane (C18)	yogesh	6/10/2025 7:52:28 AM	mohammad	6/11/2025 2:15:53	Peak Integrated by Software
20 PPM ALIPHATIC HC	FC069133.D	n-Tetracontane (C40)	yogesh	6/10/2025 7:52:28 AM	mohammad	6/11/2025 2:15:53	Peak Integrated by Software
PB168324BS	FC069135.D	n-Octadecane (C18)	yogesh	6/10/2025 7:52:30 AM	mohammad	6/11/2025 2:15:53	Peak Integrated by Software
PB168324BS	FC069135.D	n-Tetracontane (C40)	yogesh	6/10/2025 7:52:30 AM	mohammad	6/11/2025 2:15:53	Peak Integrated by Software
PB168324BSD	FC069136.D	n-Octadecane (C18)	yogesh	6/10/2025 7:52:32 AM	mohammad	6/11/2025 2:15:53	Peak Integrated by Software
PB168324BSD	FC069136.D	n-Tetracontane (C40)	yogesh	6/10/2025 7:52:32 AM	mohammad	6/11/2025 2:15:53	Peak Integrated by Software
20 PPM ALIPHATIC HC	FC069140.D	n-Octadecane (C18)	yogesh	6/10/2025 7:52:33 AM	mohammad	6/11/2025 2:15:53	Peak Integrated by Software
20 PPM ALIPHATIC HC	FC069140.D	n-Tetracontane (C40)	yogesh	6/10/2025 7:52:33 AM	mohammad	6/11/2025 2:15:53	Peak Integrated by Software
20 PPM ALIPHATIC HC	FC069140.D	n-Tetracosane (C24)	yogesh	6/10/2025 7:52:33 AM	mohammad	6/11/2025 2:15:53	Peak Integrated by Software
PB168341BS	FC069142.D	n-Decane (C10)	yogesh	6/10/2025 7:52:35 AM	mohammad	6/11/2025 2:15:53	Peak Integrated by Software
PB168341BSD	FC069143.D	n-Decane (C10)	yogesh	6/10/2025 7:52:37 AM	mohammad	6/11/2025 2:15:53	Peak Integrated by Software
PB168341BSD	FC069143.D	n-Tetracontane (C40)	yogesh	6/10/2025 7:52:37 AM	mohammad	6/11/2025 2:15:53	Peak Integrated by Software

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Manual Integration Report

Sequence:	FC060925AL	Instrument	FID_c

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q2265-01MS	FC069146.D	n-Decane (C10)	yogesh	6/10/2025 7:52:39 AM	mohammad	6/11/2025 2:15:53	Peak Integrated by Software
Q2265-01MSD	FC069147.D	n-Decane (C10)	yogesh	6/10/2025 7:52:41 AM	mohammad	6/11/2025 2:15:53	Peak Integrated by Software
Q2265-01MSD	FC069147.D	n-Tetracontane (C40)	yogesh	6/10/2025 7:52:41 AM	mohammad	6/11/2025 2:15:53	Peak Integrated by Software
20 PPM ALIPHATIC HC	FC069150.D	n-Tetracontane (C40)	yogesh	6/10/2025 7:52:43 AM	mohammad	6/11/2025 2:15:53	Peak Integrated by Software

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Manual Integration Report

Sequence:	FC061125AL	Instrument	FID_c

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
20 PPM ALIPHATIC HC	FC069156.D	n-Octacosane (C28)	yogesh	6/12/2025 11:34:52 AM	mohammad	6/13/2025 1:40:04	Peak Integrated by Software
20 PPM ALIPHATIC HC	FC069156.D	n-Octadecane (C18)	yogesh	6/12/2025 11:34:52 AM	mohammad	6/13/2025 1:40:04	Peak Integrated by Software
20 PPM ALIPHATIC HC	FC069156.D	n-Tetracontane (C40)	yogesh	6/12/2025 11:34:52 AM	mohammad	6/13/2025 1:40:04	Peak Integrated by Software
PB168408BS	FC069158.D	n-Tetracontane (C40)	yogesh	6/12/2025 11:34:54 AM	mohammad	6/13/2025 1:40:04	Peak Integrated by Software
PB168408BSD	FC069159.D	n-Octadecane (C18)	yogesh	6/12/2025 11:34:56 AM	mohammad	6/13/2025 1:40:04	Peak Integrated by Software
PB168408BSD	FC069159.D	n-Tetracontane (C40)	yogesh	6/12/2025 11:34:56 AM	mohammad	6/13/2025 1:40:04	Peak Integrated by Software
Q2126-01	FC069160.D	n-Decane (C10)	yogesh	6/12/2025 11:34:58 AM	mohammad	6/13/2025 1:40:04	Peak Integrated by Software
Q2126-01	FC069160.D	n-Tetracontane (C40)	yogesh	6/12/2025 11:34:58 AM	mohammad	6/13/2025 1:40:04	Peak Integrated by Software
Q2126-01	FC069161.D	n-Decane (C10)	yogesh	6/12/2025 11:35:00 AM	mohammad	6/13/2025 1:40:04	Peak Integrated by Software
Q2126-01	FC069161.D	n-Tetracontane (C40)	yogesh	6/12/2025 11:35:00 AM	mohammad	6/13/2025 1:40:04	Peak Integrated by Software
Q2126-02	FC069162.D	n-Decane (C10)	yogesh	6/12/2025 11:35:02 AM	mohammad	6/13/2025 1:40:04	Peak Integrated by Software
Q2126-02	FC069162.D	n-Tetracontane (C40)	yogesh	6/12/2025 11:35:02 AM	mohammad	6/13/2025 1:40:04	Peak Integrated by Software
Q2177-02MS	FC069165.D	n-Decane (C10)	yogesh	6/12/2025 11:35:04 AM	mohammad	6/13/2025 1:40:04	Peak Integrated by Software

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Manual Integration Report

Sequence:	FC061125AL	Instrument	FID_c

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q2177-02MS	FC069165.D	n-Tetracontane (C40)	yogesh	6/12/2025 11:35:04 AM	mohammad	6/13/2025 1:40:04	Peak Integrated by Software
Q2177-02MSD	FC069166.D	n-Decane (C10)	yogesh	6/12/2025 11:35:08 AM	mohammad	6/13/2025 1:40:04	Peak Integrated by Software
Q2177-02MSD	FC069166.D	n-Tetracontane (C40)	yogesh	6/12/2025 11:35:08 AM	mohammad	6/13/2025 1:40:04	Peak Integrated by Software
20 PPM ALIPHATIC HC	FC069168.D	n-Octacosane (C28)	yogesh	6/12/2025 11:35:11 AM	mohammad	6/13/2025 1:40:04	Peak Integrated by Software
20 PPM ALIPHATIC HC	FC069168.D	n-Tetracontane (C40)	yogesh	6/12/2025 11:35:11 AM	mohammad	6/13/2025 1:40:04	Peak Integrated by Software
20 PPM ALIPHATIC HC	FC069168.D	n-Tetracosane (C24)	yogesh	6/12/2025 11:35:11 AM	mohammad	6/13/2025 1:40:04	Peak Integrated by Software
20 PPM ALIPHATIC HC	FC069174.D	n-Octadecane (C18)	yogesh	6/12/2025 11:35:13 AM	mohammad	6/13/2025 1:40:04	Peak Integrated by Software
20 PPM ALIPHATIC HC	FC069174.D	n-Tetracontane (C40)	yogesh	6/12/2025 11:35:13 AM	mohammad	6/13/2025 1:40:04	Peak Integrated by Software
20 PPM ALIPHATIC HC	FC069174.D	n-Tetracosane (C24)	yogesh	6/12/2025 11:35:13 AM	mohammad	6/13/2025 1:40:04	Peak Integrated by Software
Q2126-07	FC069176.D	n-Decane (C10)	yogesh	6/12/2025 11:35:14 AM	mohammad	6/13/2025 1:40:04	Peak Integrated by Software
Q2126-07	FC069176.D	n-Nonane (C9)	yogesh	6/12/2025 11:35:14 AM	mohammad	6/13/2025 1:40:04	Peak Integrated by Software
Q2126-07	FC069176.D	n-Tetracontane (C40)	yogesh	6/12/2025 11:35:14 AM	mohammad	6/13/2025 1:40:04	Peak Integrated by Software
Q2126-07	FC069177.D	n-Decane (C10)	yogesh	6/12/2025 11:35:44 AM	mohammad	6/13/2025 1:40:04	Peak Integrated by Software

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Manual Integration Report

Sequence:	FC061125AL	Instrument	FID_c

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q2126-07	FC069177.D	n-Hexadecane (C16)	yogesh	6/12/2025 11:35:44 AM	mohammad	6/13/2025 1:40:04	Peak Integrated by Software
Q2126-07	FC069177.D	n-Tetracontane (C40)	yogesh	6/12/2025 11:35:44 AM	mohammad	6/13/2025 1:40:04	Peak Integrated by Software
Q2126-08	FC069178.D	n-Decane (C10)	yogesh	6/12/2025 11:35:46 AM	mohammad	6/13/2025 1:40:04	Peak Integrated by Software
Q2126-08	FC069178.D	n-Hexadecane (C16)	yogesh	6/12/2025 11:35:46 AM	mohammad	6/13/2025 1:40:04	Peak Integrated by Software
Q2126-08	FC069178.D	n-Tetracontane (C40)	yogesh	6/12/2025 11:35:46 AM	mohammad	6/13/2025 1:40:04	Peak Integrated by Software
20 PPM ALIPHATIC HC	FC069180.D	n-Tetracontane (C40)	yogesh	6/12/2025 11:35:48 AM	mohammad	6/13/2025 1:40:04	Peak Integrated by Software
20 PPM ALIPHATIC HC	FC069180.D	n-Tetracosane (C24)	yogesh	6/12/2025 11:35:48 AM	mohammad	6/13/2025 1:40:04	Peak Integrated by Software

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Manual Integration Report

Sequence:	FD052425AR	Instrument	FID_d

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
100 PPM AROMATIC HC	FD049394.D	Bnezo[k]fluoranthene (C30.14)	yogesh	5/27/2025 7:30:09 AM	mohammad	5/28/2025 1:48:35	Peak Integrated by Software
100 PPM AROMATIC HC	FD049394.D	Dibenz[a,h]anthracene (C30.36)	yogesh	5/27/2025 7:30:09 AM	mohammad	5/28/2025 1:48:35	Peak Integrated by Software
100 PPM AROMATIC HC	FD049394.D	Fluoranthene (C21.85)	yogesh	5/27/2025 7:30:09 AM	mohammad	5/28/2025 1:48:35	Peak Integrated by Software

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Manual Integration Report

Sequence:	FD060925AR	Instrument	FID_d

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

Manual Integration Report

Sequence:	FD061025AR	Instrument	FID_d

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason

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Manual Integration Report

Sequence:	FD061125AR	Instrument	FID_d

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q2126-02	FD049437.D	1,2,3-Trimethylbenzene (C10.1)	yogesh	6/12/2025 11:36:32 AM	mohammad	6/13/2025 1:40:17	Peak Integrated by Software
Q2126-02	FD049437.D	2-Methylnaphthalene (C12.89)	yogesh	6/12/2025 11:36:32 AM	mohammad	6/13/2025 1:40:17	Peak Integrated by Software
Q2126-02	FD049437.D	Acenaphthene (C15.5)	yogesh	6/12/2025 11:36:32 AM	mohammad	6/13/2025 1:40:17	Peak Integrated by Software
Q2126-02	FD049437.D	Acenaphthylene (C15.06)	yogesh	6/12/2025 11:36:32 AM	mohammad	6/13/2025 1:40:17	Peak Integrated by Software
Q2126-02	FD049437.D	Naphthalene (C11.7)	yogesh	6/12/2025 11:36:32 AM	mohammad	6/13/2025 1:40:17	Peak Integrated by Software
Q2177-04	FD049444.D	2-Flurobiphenyl (SURR)	yogesh	6/12/2025 11:36:34 AM	mohammad	6/13/2025 1:40:17	Peak Integrated by Software
Q2126-07	FD049452.D	1,2,3-Trimethylbenzene (C10.1)	yogesh	6/12/2025 11:36:35 AM	mohammad	6/13/2025 1:40:17	Peak Integrated by Software
Q2126-07	FD049452.D	2-Methylnaphthalene (C12.89)	yogesh	6/12/2025 11:36:35 AM	mohammad	6/13/2025 1:40:17	Peak Integrated by Software
Q2126-07	FD049452.D	Acenaphthene (C15.5)	yogesh	6/12/2025 11:36:35 AM	mohammad	6/13/2025 1:40:17	Peak Integrated by Software
Q2126-07	FD049452.D	Acenaphthylene (C15.06)	yogesh	6/12/2025 11:36:35 AM	mohammad	6/13/2025 1:40:17	Peak Integrated by Software
Q2126-07	FD049452.D	Anthracene (C19.43)	yogesh	6/12/2025 11:36:35 AM	mohammad	6/13/2025 1:40:17	Peak Integrated by Software
Q2126-07	FD049452.D	Benzo[a]anthracene (C26.37)	yogesh	6/12/2025 11:36:35 AM	mohammad	6/13/2025 1:40:17	Peak Integrated by Software
Q2126-07	FD049452.D	Benzo[a]pyrene (C31.34)	yogesh	6/12/2025 11:36:35 AM	mohammad	6/13/2025 1:40:17	Peak Integrated by Software

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Manual Integration Report

Sequence:	FD061125AR	Instrument	FID_d

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q2126-07	FD049452.D	benzo[b]fluoranthene (C30.41)	yogesh	6/12/2025 11:36:35 AM	mohammad	6/13/2025 1:40:17	Peak Integrated by Software
Q2126-07	FD049452.D	Benzo[g,h,i]perylene (C34.01)	yogesh	6/12/2025 11:36:35 AM	mohammad	6/13/2025 1:40:17	Peak Integrated by Software
Q2126-07	FD049452.D	Bnezo[k]fluoranthene (C30.14)	yogesh	6/12/2025 11:36:35 AM	mohammad	6/13/2025 1:40:17	Peak Integrated by Software
Q2126-07	FD049452.D	Indeno[1,2,3-cd]pyrene (C35.01)	yogesh	6/12/2025 11:36:35 AM	mohammad	6/13/2025 1:40:17	Peak Integrated by Software
Q2126-07	FD049452.D	Naphthalene (C11.7)	yogesh	6/12/2025 11:36:35 AM	mohammad	6/13/2025 1:40:17	Peak Integrated by Software
Q2126-07	FD049452.D	Phenanthrene (C19.36)	yogesh	6/12/2025 11:36:35 AM	mohammad	6/13/2025 1:40:17	Peak Integrated by Software
Q2126-07	FD049452.D	Pyrene (C20.8)	yogesh	6/12/2025 11:36:35 AM	mohammad	6/13/2025 1:40:17	Peak Integrated by Software

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Manual Integration Report

Sequence:	FD061325AR	Instrument	FID_d

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q2286-03DL	FD049486.D	2-Bromonaphthalene (SURR)	yogesh	6/16/2025 8:10:26 AM	mohammad	6/16/2025 8:33:02	Peak Integrated by Software
Q2286-03DL	FD049486.D	2-Flurobiphenyl (SURR)	yogesh	6/16/2025 8:10:26 AM	mohammad	6/16/2025 8:33:02	Peak Integrated by Software
Q2286-03DL	FD049486.D	ortho-Terphenyl (SURR)	yogesh	6/16/2025 8:10:26 AM	mohammad	6/16/2025 8:33:02	Peak Integrated by Software

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Instrument ID: FID_C

Daily Analysis Runlog For Sequence/QCBatch ID # FC052425AL

Review By	yogesh	Review On	5/23/2025 12:24:51 PM		
Supervise By	mohammad	Supervise On	5/28/2025 1:48:12 AM		
SubDirectory	FC052425AL	HP Acquire Method		HP Processing Method	FC052425AL

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24170,PP24175,PP24176,PP24177,PP24178
CCC	PP24176
Internal Standard/PEM	
ICV/I.BLK	PP24174,PP24179
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	MECL2	FC068996.D	23 May 2025 12:58	YP/AJ	Ok
2	I.BLK	FC068997.D	23 May 2025 13:35	YP/AJ	Ok
3	100 PPM ALIPHATIC HC STD1	FC068998.D	23 May 2025 14:12	YP/AJ	Ok
4	50 PPM ALIPHATIC HC STD2	FC068999.D	23 May 2025 14:50	YP/AJ	Ok
5	20 PPM ALIPHATIC HC STD3	FC069000.D	23 May 2025 15:28	YP/AJ	Ok
6	10 PPM ALIPHATIC HC STD4	FC069001.D	23 May 2025 16:05	YP/AJ	Ok
7	5 PPM ALIPHATIC HC STD5	FC069002.D	23 May 2025 16:43	YP/AJ	Ok
8	20 PPM ALIPHATIC HC STD ICV	FC069003.D	23 May 2025 17:20	YP/AJ	Ok,M
9	I.BLK	FC069004.D	23 May 2025 18:36	YP/AJ	Ok
10	20 PPM ALIPHATIC HC STD	FC069005.D	23 May 2025 19:13	YP/AJ	Ok

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Instrument ID: FID_C

Daily Analysis Runlog For Sequence/QCBatch ID # FC060925AL

Review By	yogesh	Review On	6/9/2025 12:18:01 PM		
Supervise By	mohammad	Supervise On	6/11/2025 2:15:53 AM		
SubDirectory	FC060925AL	HP Acquire Method		HP Processing Method	FC052425AL

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24170,PP24175,PP24176,PP24177,PP24178
CCC	PP24176
Internal Standard/PEM	
ICV/I.BLK	PP24174,PP24179
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	MECL2	FC069131.D	09 Jun 2025 09:27	YP/AJ	Ok
2	I.BLK	FC069132.D	09 Jun 2025 10:07	YP/AJ	Ok
3	20 PPM ALIPHATIC HC STD	FC069133.D	09 Jun 2025 12:17	YP/AJ	Ok,M
4	PB168324BL	FC069134.D	09 Jun 2025 16:17	YP/AJ	Ok
5	PB168324BS	FC069135.D	09 Jun 2025 16:57	YP/AJ	Ok,M
6	PB168324BSD	FC069136.D	09 Jun 2025 17:37	YP/AJ	Ok,M
7	Q2177-08	FC069137.D	09 Jun 2025 18:17	YP/AJ	Ok
8	Q2198-05	FC069138.D	09 Jun 2025 18:58	YP/AJ	Ok
9	I.BLK	FC069139.D	09 Jun 2025 20:20	YP/AJ	Ok
10	20 PPM ALIPHATIC HC STD	FC069140.D	09 Jun 2025 21:41	YP/AJ	Ok,M
11	PB168341BL	FC069141.D	09 Jun 2025 22:21	YP/AJ	Ok
12	PB168341BS	FC069142.D	09 Jun 2025 23:02	YP/AJ	Ok,M
13	PB168341BSD	FC069143.D	09 Jun 2025 23:41	YP/AJ	Ok,M
14	Q2265-01	FC069144.D	10 Jun 2025 00:21	YP/AJ	Ok
15	Q2265-01D	FC069145.D	10 Jun 2025 01:00	YP/AJ	Ok
16	Q2265-01MS	FC069146.D	10 Jun 2025 01:39	YP/AJ	Ok,M
17	Q2265-01MSD	FC069147.D	10 Jun 2025 02:19	YP/AJ	Ok,M
18	Q2265-03	FC069148.D	10 Jun 2025 02:58	YP/AJ	Ok
19	I.BLK	FC069149.D	10 Jun 2025 04:16	YP/AJ	Ok
20	20 PPM ALIPHATIC HC STD	FC069150.D	10 Jun 2025 04:55	YP/AJ	Ok,M

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Instrument ID: FID_C

Daily Analysis Runlog For Sequence/QCBatch ID # FC061125AL

Review By	yogesh	Review On	6/11/2025 3:08:31 PM		
Supervise By	mohammad	Supervise On	6/13/2025 1:40:04 AM		
SubDirectory	FC061125AL	HP Acquire Method		HP Processing Method	FC052425AL

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24170,PP24175,PP24176,PP24177,PP24178
CCC	PP24176
Internal Standard/PEM	
ICV/I.BLK	PP24174,PP24179
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	MECL2	FC069154.D	11 Jun 2025 10:11	YP/AJ	Ok
2	I.BLK	FC069155.D	11 Jun 2025 10:51	YP/AJ	Ok
3	20 PPM ALIPHATIC HC STD	FC069156.D	11 Jun 2025 12:12	YP/AJ	Ok,M
4	PB168408BL	FC069157.D	11 Jun 2025 16:33	YP/AJ	Ok
5	PB168408BS	FC069158.D	11 Jun 2025 17:15	YP/AJ	Ok,M
6	PB168408BSD	FC069159.D	11 Jun 2025 17:57	YP/AJ	Ok,M
7	Q2126-01	FC069160.D	11 Jun 2025 18:39	YP/AJ	Ok,M
8	Q2126-01	FC069161.D	11 Jun 2025 19:23	YP/AJ	Ok,M
9	Q2126-02	FC069162.D	11 Jun 2025 20:05	YP/AJ	Ok,M
10	Q2177-02	FC069163.D	11 Jun 2025 20:47	YP/AJ	Not Ok
11	Q2177-02D	FC069164.D	11 Jun 2025 21:28	YP/AJ	Not Ok
12	Q2177-02MS	FC069165.D	11 Jun 2025 22:09	YP/AJ	Ok,M
13	Q2177-02MSD	FC069166.D	11 Jun 2025 22:50	YP/AJ	Ok,M
14	I.BLK	FC069167.D	11 Jun 2025 23:29	YP/AJ	Ok
15	20 PPM ALIPHATIC HC STD	FC069168.D	12 Jun 2025 00:09	YP/AJ	Ok,M
16	Q2177-04	FC069169.D	12 Jun 2025 01:28	YP/AJ	Not Ok
17	Q2177-06	FC069170.D	12 Jun 2025 02:08	YP/AJ	Not Ok
18	Q2198-01	FC069171.D	12 Jun 2025 02:48	YP/AJ	Ok
19	Q2198-03	FC069172.D	12 Jun 2025 03:27	YP/AJ	Ok
20	I.BLK	FC069173.D	12 Jun 2025 04:07	YP/AJ	Ok
21	20 PPM ALIPHATIC HC STD	FC069174.D	12 Jun 2025 04:46	YP/AJ	Ok,M

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Instrument ID: FID_C

Daily Analysis Runlog For Sequence/QCBatch ID # FC061125AL

Review By	yogesh	Review On	6/11/2025 3:08:31 PM		
Supervise By	mohammad	Supervise On	6/13/2025 1:40:04 AM		
SubDirectory	FC061125AL	HP Acquire Method		HP Processing Method	FC052425AL

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24170,PP24175,PP24176,PP24177,PP24178
CCC	PP24176
Internal Standard/PEM	
ICV/I.BLK	PP24174,PP24179
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	PB168409BL	FC069175.D	12 Jun 2025 06:04	YP/AJ	Ok
23	Q2126-07	FC069176.D	12 Jun 2025 06:44	YP/AJ	Ok,M
24	Q2126-07	FC069177.D	12 Jun 2025 07:23	YP/AJ	Ok,M
25	Q2126-08	FC069178.D	12 Jun 2025 08:02	YP/AJ	Ok,M
26	I.BLK	FC069179.D	12 Jun 2025 08:41	YP/AJ	Ok
27	20 PPM ALIPHATIC HC STD	FC069180.D	12 Jun 2025 09:21	YP/AJ	Ok,M

M : Manual Integration

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Instrument ID: FID_D

Daily Analysis Runlog For Sequence/QCBatch ID # FD052425AR

Review By	yogesh	Review On	5/23/2025 12:26:08 PM		
Supervise By	mohammad	Supervise On	5/28/2025 1:48:35 AM		
SubDirectory	FD052425AR	HP Acquire Method		HP Processing Method	FD052425AR

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24500,PP24502,PP24503,PP24504,PP24505
CCC	PP24503
Internal Standard/PEM	
ICV/I.BLK	PP24501,PP24506
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	MECL2	FD049392.D	23 May 2025 13:35	YP/AJ	Ok
2	I.BLK	FD049393.D	23 May 2025 14:12	YP/AJ	Ok
3	100 PPM AROMATIC HC STD1	FD049394.D	23 May 2025 14:50	YP/AJ	Ok,M
4	50 PPM AROMATIC HC STD2	FD049395.D	23 May 2025 15:28	YP/AJ	Ok
5	20 PPM AROMATIC HC STD3	FD049396.D	23 May 2025 16:05	YP/AJ	Ok
6	10 PPM AROMATIC HC STD4	FD049397.D	23 May 2025 16:43	YP/AJ	Ok
7	5 PPM AROMATIC HC STD5	FD049398.D	23 May 2025 17:20	YP/AJ	Ok
8	20 PPM AROMATIC HC STD ICV	FD049399.D	23 May 2025 17:58	YP/AJ	Ok
9	I.BLK	FD049400.D	23 May 2025 19:13	YP/AJ	Ok
10	20 PPM AROMATIC HC STD	FD049401.D	23 May 2025 19:50	YP/AJ	Ok

M : Manual Integration

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Instrument ID: FID_D

Daily Analysis Runlog For Sequence/QCBatch ID # FD060925AR

Review By	yogesh	Review On	6/9/2025 1:09:15 PM		
Supervise By	mohammad	Supervise On	6/11/2025 2:16:01 AM		
SubDirectory	FD060925AR	HP Acquire Method		HP Processing Method	FD052425AR

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24500,PP24502,PP24503,PP24504,PP24505
CCC	PP24503
Internal Standard/PEM	
ICV/I.BLK	PP24501,PP24506
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	MECL2	FD049412.D	09 Jun 2025 09:27	YP/AJ	Ok
2	I.BLK	FD049413.D	09 Jun 2025 10:07	YP/AJ	Ok
3	20 PPM AROMATIC HC STD	FD049414.D	09 Jun 2025 12:17	YP/AJ	Ok
4	PB168324BL	FD049415.D	09 Jun 2025 16:17	YP/AJ	Ok
5	PB168324BS	FD049416.D	09 Jun 2025 16:57	YP/AJ	Ok
6	PB168324BSD	FD049417.D	09 Jun 2025 17:37	YP/AJ	Ok
7	Q2177-08	FD049418.D	09 Jun 2025 18:17	YP/AJ	Ok
8	Q2198-05	FD049419.D	09 Jun 2025 18:58	YP/AJ	Not Ok
9	I.BLK	FD049420.D	09 Jun 2025 20:20	YP/AJ	Ok
10	20 PPM AROMATIC HC STD	FD049421.D	09 Jun 2025 21:01	YP/AJ	Ok

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Instrument ID: FID_D

Daily Analysis Runlog For Sequence/QCBatch ID # FD061025AR

Review By	yogesh	Review On	6/10/2025 11:55:57 AM		
Supervise By	mohammad	Supervise On	6/12/2025 3:34:06 AM		
SubDirectory	FD061025AR	HP Acquire Method		HP Processing Method	FD052425AR

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24500,PP24502,PP24503,PP24504,PP24505
CCC	PP24503
Internal Standard/PEM	
ICV/I.BLK	PP24501,PP24506
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	MECL2	FD049422.D	10 Jun 2025 07:53	YP/AJ	Ok
2	I.BLK	FD049423.D	10 Jun 2025 08:31	YP/AJ	Ok
3	20 PPM AROMATIC HC STD	FD049424.D	10 Jun 2025 09:11	YP/AJ	Ok
4	Q2198-05	FD049425.D	10 Jun 2025 11:50	YP/AJ	Ok
5	I.BLK	FD049426.D	10 Jun 2025 12:30	YP/AJ	Ok
6	20 PPM AROMATIC HC STD	FD049427.D	10 Jun 2025 13:10	YP/AJ	Ok

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Instrument ID: FID_D

Daily Analysis Runlog For Sequence/QCBatch ID # FD061125AR

Review By	yogesh	Review On	6/11/2025 3:09:24 PM		
Supervise By	mohammad	Supervise On	6/13/2025 1:40:17 AM		
SubDirectory	FD061125AR	HP Acquire Method		HP Processing Method	FD052425AR

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24500,PP24502,PP24503,PP24504,PP24505
CCC	PP24503
Internal Standard/PEM	
ICV/I.BLK	PP24501,PP24506
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	MECL2	FD049428.D	11 Jun 2025 10:11	YP/AJ	Ok
2	I.BLK	FD049429.D	11 Jun 2025 10:51	YP/AJ	Ok
3	20 PPM AROMATIC HC STD	FD049430.D	11 Jun 2025 12:12	YP/AJ	Ok
4	PP24647	FD049431.D	11 Jun 2025 15:52	YP/AJ	Ok
5	PB168408BL	FD049432.D	11 Jun 2025 16:33	YP/AJ	Ok
6	PB168408BS	FD049433.D	11 Jun 2025 17:15	YP/AJ	Ok
7	PB168408BSD	FD049434.D	11 Jun 2025 17:57	YP/AJ	Ok
8	Q2126-01	FD049435.D	11 Jun 2025 18:39	YP/AJ	Ok
9	Q2126-01	FD049436.D	11 Jun 2025 19:23	YP/AJ	Ok
10	Q2126-02	FD049437.D	11 Jun 2025 20:05	YP/AJ	Ok,M
11	Q2177-02	FD049438.D	11 Jun 2025 20:47	YP/AJ	Not Ok
12	Q2177-02D	FD049439.D	11 Jun 2025 21:28	YP/AJ	Not Ok
13	Q2177-02MS	FD049440.D	11 Jun 2025 22:09	YP/AJ	Not Ok
14	Q2177-02MSD	FD049441.D	11 Jun 2025 22:50	YP/AJ	Not Ok
15	I.BLK	FD049442.D	11 Jun 2025 23:29	YP/AJ	Ok
16	20 PPM AROMATIC HC STD	FD049443.D	12 Jun 2025 00:09	YP/AJ	Ok
17	Q2177-04	FD049444.D	12 Jun 2025 01:28	YP/AJ	Not Ok
18	Q2177-06	FD049445.D	12 Jun 2025 02:08	YP/AJ	Not Ok
19	Q2198-01	FD049446.D	12 Jun 2025 02:48	YP/AJ	Ok
20	Q2198-03	FD049447.D	12 Jun 2025 03:27	YP/AJ	Ok
21	I.BLK	FD049448.D	12 Jun 2025 04:07	YP/AJ	Ok

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Instrument ID: FID_D

Daily Analysis Runlog For Sequence/QCBatch ID # FD061125AR

Review By	yogesh	Review On	6/11/2025 3:09:24 PM		
Supervise By	mohammad	Supervise On	6/13/2025 1:40:17 AM		
SubDirectory	FD061125AR	HP Acquire Method		HP Processing Method	FD052425AR

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24500,PP24502,PP24503,PP24504,PP24505
CCC	PP24503
Internal Standard/PEM	
ICV/I.BLK	PP24501,PP24506
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	20 PPM AROMATIC HC STD	FD049449.D	12 Jun 2025 04:46	YP/AJ	Ok
23	PB168409BL	FD049450.D	12 Jun 2025 06:04	YP/AJ	Ok
24	Q2126-07	FD049451.D	12 Jun 2025 06:44	YP/AJ	Ok
25	Q2126-07	FD049452.D	12 Jun 2025 07:23	YP/AJ	Ok,M
26	Q2126-08	FD049453.D	12 Jun 2025 08:02	YP/AJ	Ok
27	I.BLK	FD049454.D	12 Jun 2025 08:41	YP/AJ	Ok
28	20 PPM AROMATIC HC STD	FD049455.D	12 Jun 2025 09:21	YP/AJ	Ok

M : Manual Integration

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Instrument ID: FID_D

Daily Analysis Runlog For Sequence/QCBatch ID # FD061325AR

Review By	yogesh	Review On	6/13/2025 10:27:20 AM		
Supervise By	mohammad	Supervise On	6/16/2025 8:33:02 AM		
SubDirectory	FD061325AR	HP Acquire Method		HP Processing Method	FD052425AR

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24500,PP24502,PP24503,PP24504,PP24505
CCC	PP24503
Internal Standard/PEM	
ICV/I.BLK	PP24501,PP24506
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	MECL2	FD049479.D	13 Jun 2025 06:29	YP/AJ	Ok
2	I.BLK	FD049480.D	13 Jun 2025 07:07	YP/AJ	Ok
3	20 PPM AROMATIC HC STD	FD049481.D	13 Jun 2025 07:46	YP/AJ	Ok
4	Q2177-02	FD049482.D	13 Jun 2025 08:25	YP/AJ	Ok
5	Q2177-02D	FD049483.D	13 Jun 2025 09:04	YP/AJ	Ok
6	Q2177-02MS	FD049484.D	13 Jun 2025 09:48	YP/AJ	Ok
7	Q2177-02MSD	FD049485.D	13 Jun 2025 10:28	YP/AJ	Ok
8	Q2286-03DL	FD049486.D	13 Jun 2025 11:07	YP/AJ	Dilution
9	Q2286-03DL2	FD049487.D	13 Jun 2025 11:47	YP/AJ	Ok
10	I.BLK	FD049488.D	13 Jun 2025 12:26	YP/AJ	Ok
11	20 PPM AROMATIC HC STD	FD049489.D	13 Jun 2025 13:06	YP/AJ	Ok

M : Manual Integration

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Instrument ID: FID_C

Daily Analysis Runlog For Sequence/QCBatch ID # FC052425AL

Review By	yogesh	Review On	5/23/2025 12:24:51 PM		
Supervise By	mohammad	Supervise On	5/28/2025 1:48:12 AM		
SubDirectory	FC052425AL	HP Acquire Method		HP Processing Method	FC052425AL

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24170,PP24175,PP24176,PP24177,PP24178
CCC	PP24176
Internal Standard/PEM	
ICV/I.BLK	PP24174,PP24179
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	MECL2	MECL2	FC068996.D	23 May 2025 12:58		YP/AJ	Ok
2	I.BLK	I.BLK	FC068997.D	23 May 2025 13:35		YP/AJ	Ok
3	100 PPM ALIPHATIC H	100 PPM ALIPHATIC H	FC068998.D	23 May 2025 14:12		YP/AJ	Ok
4	50 PPM ALIPHATIC HC	50 PPM ALIPHATIC HC	FC068999.D	23 May 2025 14:50		YP/AJ	Ok
5	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FC069000.D	23 May 2025 15:28		YP/AJ	Ok
6	10 PPM ALIPHATIC HC	10 PPM ALIPHATIC HC	FC069001.D	23 May 2025 16:05		YP/AJ	Ok
7	5 PPM ALIPHATIC HC	5 PPM ALIPHATIC HC	FC069002.D	23 May 2025 16:43		YP/AJ	Ok
8	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FC069003.D	23 May 2025 17:20		YP/AJ	Ok,M
9	I.BLK	I.BLK	FC069004.D	23 May 2025 18:36		YP/AJ	Ok
10	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FC069005.D	23 May 2025 19:13		YP/AJ	Ok

M : Manual Integration

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Instrument ID: FID_C

Daily Analysis Runlog For Sequence/QCBatch ID # FC060925AL

Review By	yogesh	Review On	6/9/2025 12:18:01 PM		
Supervise By	mohammad	Supervise On	6/11/2025 2:15:53 AM		
SubDirectory	FC060925AL	HP Acquire Method		HP Processing Method	FC052425AL

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24170,PP24175,PP24176,PP24177,PP24178
CCC	PP24176
Internal Standard/PEM	
ICV/I.BLK	PP24174,PP24179
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	MECL2	MECL2	FC069131.D	09 Jun 2025 09:27		YP/AJ	Ok
2	I.BLK	I.BLK	FC069132.D	09 Jun 2025 10:07		YP/AJ	Ok
3	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FC069133.D	09 Jun 2025 12:17		YP/AJ	Ok,M
4	PB168324BL	PB168324BL	FC069134.D	09 Jun 2025 16:17		YP/AJ	Ok
5	PB168324BS	PB168324BS	FC069135.D	09 Jun 2025 16:57	naphthalene break down - 0.648, 2-methylnephthalene break down - 0.668	YP/AJ	Ok,M
6	PB168324BSD	PB168324BSD	FC069136.D	09 Jun 2025 17:37	naphthalene break down - 0.725, 2-methylnephthalene break down - 0.817	YP/AJ	Ok,M
7	Q2177-08	EB05312025	FC069137.D	09 Jun 2025 18:17		YP/AJ	Ok
8	Q2198-05	B-202-GW01	FC069138.D	09 Jun 2025 18:58		YP/AJ	Ok
9	I.BLK	I.BLK	FC069139.D	09 Jun 2025 20:20		YP/AJ	Ok
10	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FC069140.D	09 Jun 2025 21:41		YP/AJ	Ok,M
11	PB168341BL	PB168341BL	FC069141.D	09 Jun 2025 22:21		YP/AJ	Ok
12	PB168341BS	PB168341BS	FC069142.D	09 Jun 2025 23:02		YP/AJ	Ok,M
13	PB168341BSD	PB168341BSD	FC069143.D	09 Jun 2025 23:41		YP/AJ	Ok,M
14	Q2265-01	TP11-MHL-WC	FC069144.D	10 Jun 2025 00:21		YP/AJ	Ok
15	Q2265-01D	Q2265-01D	FC069145.D	10 Jun 2025 01:00		YP/AJ	Ok
16	Q2265-01MS	TP11-MHL-WCMS	FC069146.D	10 Jun 2025 01:39	FC069144.D	YP/AJ	Ok,M

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Instrument ID: FID_C

Daily Analysis Runlog For Sequence/QCBatch ID # FC060925AL

Review By	yogesh	Review On	6/9/2025 12:18:01 PM		
Supervise By	mohammad	Supervise On	6/11/2025 2:15:53 AM		
SubDirectory	FC060925AL	HP Acquire Method		HP Processing Method	FC052425AL

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24170,PP24175,PP24176,PP24177,PP24178
CCC	PP24176
Internal Standard/PEM	
ICV/I.BLK	PP24174,PP24179
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

17	Q2265-01MSD	TP11-MHL-WCMSD	FC069147.D	10 Jun 2025 02:19	FC069144.D!FC069146.D	YP/AJ	Ok,M
18	Q2265-03	TP11-MHL-EPH	FC069148.D	10 Jun 2025 02:58		YP/AJ	Ok
19	I.BLK	I.BLK	FC069149.D	10 Jun 2025 04:16		YP/AJ	Ok
20	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FC069150.D	10 Jun 2025 04:55		YP/AJ	Ok,M

M : Manual Integration

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Instrument ID: FID_C

Daily Analysis Runlog For Sequence/QCBatch ID # FC061125AL

Review By	yogesh	Review On	6/11/2025 3:08:31 PM		
Supervise By	mohammad	Supervise On	6/13/2025 1:40:04 AM		
SubDirectory	FC061125AL	HP Acquire Method		HP Processing Method	FC052425AL

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24170,PP24175,PP24176,PP24177,PP24178
CCC	PP24176
Internal Standard/PEM	
ICV/I.BLK	PP24174,PP24179
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	MECL2	MECL2	FC069154.D	11 Jun 2025 10:11		YP/AJ	Ok
2	I.BLK	I.BLK	FC069155.D	11 Jun 2025 10:51		YP/AJ	Ok
3	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FC069156.D	11 Jun 2025 12:12		YP/AJ	Ok,M
4	PB168408BL	PB168408BL	FC069157.D	11 Jun 2025 16:33		YP/AJ	Ok
5	PB168408BS	PB168408BS	FC069158.D	11 Jun 2025 17:15	naphthalene break down - 0.510, 2-methylnephthalene break down - 0.715	YP/AJ	Ok,M
6	PB168408BSD	PB168408BSD	FC069159.D	11 Jun 2025 17:57	naphthalene break down - 0.674, 2-methylnephthalene break down - 0.938	YP/AJ	Ok,M
7	Q2126-01	LOD-MDL-SOIL-03-QT	FC069160.D	11 Jun 2025 18:39	2.5 PPM SOIL LOD	YP/AJ	Ok,M
8	Q2126-01	LOD-MDL-SOIL-03-QT	FC069161.D	11 Jun 2025 19:23	5 PPM SOIL LOD	YP/AJ	Ok,M
9	Q2126-02	LOQ-SOIL-02-QT2-202	FC069162.D	11 Jun 2025 20:05	5 PPM SOIL LOQ	YP/AJ	Ok,M
10	Q2177-02	B-187-SB01	FC069163.D	11 Jun 2025 20:47	Surr Fail	YP/AJ	Not Ok
11	Q2177-02D	Q2177-02D	FC069164.D	11 Jun 2025 21:28	Surr Fail	YP/AJ	Not Ok
12	Q2177-02MS	B-187-SB01MS	FC069165.D	11 Jun 2025 22:09	FC069184.D	YP/AJ	Ok,M
13	Q2177-02MSD	B-187-SB01MSD	FC069166.D	11 Jun 2025 22:50	FC069184.D!FC069165.D	YP/AJ	Ok,M
14	I.BLK	I.BLK	FC069167.D	11 Jun 2025 23:29		YP/AJ	Ok
15	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FC069168.D	12 Jun 2025 00:09		YP/AJ	Ok,M
16	Q2177-04	B-187-SB02	FC069169.D	12 Jun 2025 01:28	Surr Fail	YP/AJ	Not Ok

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Instrument ID: FID_C

Daily Analysis Runlog For Sequence/QCBatch ID # FC061125AL

Review By	yogesh	Review On	6/11/2025 3:08:31 PM		
Supervise By	mohammad	Supervise On	6/13/2025 1:40:04 AM		
SubDirectory	FC061125AL	HP Acquire Method		HP Processing Method	FC052425AL

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24170,PP24175,PP24176,PP24177,PP24178
CCC	PP24176
Internal Standard/PEM	
ICV/I.BLK	PP24174,PP24179
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

17	Q2177-06	B-202-SB01	FC069170.D	12 Jun 2025 02:08	Surr Fail	YP/AJ	Not Ok
18	Q2198-01	B-202-SB02	FC069171.D	12 Jun 2025 02:48		YP/AJ	Ok
19	Q2198-03	B-207-SB02	FC069172.D	12 Jun 2025 03:27		YP/AJ	Ok
20	I.BLK	I.BLK	FC069173.D	12 Jun 2025 04:07		YP/AJ	Ok
21	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FC069174.D	12 Jun 2025 04:46		YP/AJ	Ok,M
22	PB168409BL	PB168409BL	FC069175.D	12 Jun 2025 06:04		YP/AJ	Ok
23	Q2126-07	LOD-MDL-WATER-01-(	FC069176.D	12 Jun 2025 06:44	2.5 PPM WATER LOD	YP/AJ	Ok,M
24	Q2126-07	LOD-MDL-WATER-01-(	FC069177.D	12 Jun 2025 07:23	5 PPM WATER LOD	YP/AJ	Ok,M
25	Q2126-08	LOQ-WATER-02-QT2-2	FC069178.D	12 Jun 2025 08:02	5 PPM WATER LOQ	YP/AJ	Ok,M
26	I.BLK	I.BLK	FC069179.D	12 Jun 2025 08:41		YP/AJ	Ok
27	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FC069180.D	12 Jun 2025 09:21		YP/AJ	Ok,M

M : Manual Integration

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Instrument ID: FID_D

Daily Analysis Runlog For Sequence/QCBatch ID # FD052425AR

Review By	yogesh	Review On	5/23/2025 12:26:08 PM		
Supervise By	mohammad	Supervise On	5/28/2025 1:48:35 AM		
SubDirectory	FD052425AR	HP Acquire Method		HP Processing Method	FD052425AR

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24500,PP24502,PP24503,PP24504,PP24505
CCC	PP24503
Internal Standard/PEM	
ICV/I.BLK	PP24501,PP24506
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	MECL2	MECL2	FD049392.D	23 May 2025 13:35		YP/AJ	Ok
2	I.BLK	I.BLK	FD049393.D	23 May 2025 14:12		YP/AJ	Ok
3	100 PPM AROMATIC H	100 PPM AROMATIC H	FD049394.D	23 May 2025 14:50		YP/AJ	Ok,M
4	50 PPM AROMATIC HC	50 PPM AROMATIC HC	FD049395.D	23 May 2025 15:28		YP/AJ	Ok
5	20 PPM AROMATIC HC	20 PPM AROMATIC HC	FD049396.D	23 May 2025 16:05		YP/AJ	Ok
6	10 PPM AROMATIC HC	10 PPM AROMATIC HC	FD049397.D	23 May 2025 16:43		YP/AJ	Ok
7	5 PPM AROMATIC HC	5 PPM AROMATIC HC	FD049398.D	23 May 2025 17:20		YP/AJ	Ok
8	20 PPM AROMATIC HC	20 PPM AROMATIC HC	FD049399.D	23 May 2025 17:58		YP/AJ	Ok
9	I.BLK	I.BLK	FD049400.D	23 May 2025 19:13		YP/AJ	Ok
10	20 PPM AROMATIC HC	20 PPM AROMATIC HC	FD049401.D	23 May 2025 19:50		YP/AJ	Ok

M : Manual Integration

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Instrument ID: FID_D

Daily Analysis Runlog For Sequence/QCBatch ID # FD060925AR

Review By	yogesh	Review On	6/9/2025 1:09:15 PM		
Supervise By	mohammad	Supervise On	6/11/2025 2:16:01 AM		
SubDirectory	FD060925AR	HP Acquire Method		HP Processing Method	FD052425AR

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24500,PP24502,PP24503,PP24504,PP24505
CCC	PP24503
Internal Standard/PEM	
ICV/I.BLK	PP24501,PP24506
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	MECL2	MECL2	FD049412.D	09 Jun 2025 09:27		YP/AJ	Ok
2	I.BLK	I.BLK	FD049413.D	09 Jun 2025 10:07		YP/AJ	Ok
3	20 PPM AROMATIC HC	20 PPM AROMATIC HC	FD049414.D	09 Jun 2025 12:17		YP/AJ	Ok
4	PB168324BL	PB168324BL	FD049415.D	09 Jun 2025 16:17		YP/AJ	Ok
5	PB168324BS	PB168324BS	FD049416.D	09 Jun 2025 16:57	naphthalene break down - 0.648, 2-methylnephthalene break down - 0.668	YP/AJ	Ok
6	PB168324BSD	PB168324BSD	FD049417.D	09 Jun 2025 17:37	naphthalene break down - 0.725, 2-methylnephthalene break down - 0.817	YP/AJ	Ok
7	Q2177-08	EB05312025	FD049418.D	09 Jun 2025 18:17		YP/AJ	Ok
8	Q2198-05	Q2198-05	FD049419.D	09 Jun 2025 18:58	surr fail	YP/AJ	Not Ok
9	I.BLK	I.BLK	FD049420.D	09 Jun 2025 20:20		YP/AJ	Ok
10	20 PPM AROMATIC HC	20 PPM AROMATIC HC	FD049421.D	09 Jun 2025 21:01		YP/AJ	Ok

M : Manual Integration

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Instrument ID: FID_D

Daily Analysis Runlog For Sequence/QCBatch ID # FD061025AR

Review By	yogesh	Review On	6/10/2025 11:55:57 AM		
Supervise By	mohammad	Supervise On	6/12/2025 3:34:06 AM		
SubDirectory	FD061025AR	HP Acquire Method		HP Processing Method	FD052425AR

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24500,PP24502,PP24503,PP24504,PP24505
CCC	PP24503
Internal Standard/PEM	
ICV/I.BLK	PP24501,PP24506
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	MECL2	MECL2	FD049422.D	10 Jun 2025 07:53		YP/AJ	Ok
2	I.BLK	I.BLK	FD049423.D	10 Jun 2025 08:31		YP/AJ	Ok
3	20 PPM AROMATIC HC	20 PPM AROMATIC HC	FD049424.D	10 Jun 2025 09:11		YP/AJ	Ok
4	Q2198-05	B-202-GW01	FD049425.D	10 Jun 2025 11:50		YP/AJ	Ok
5	I.BLK	I.BLK	FD049426.D	10 Jun 2025 12:30		YP/AJ	Ok
6	20 PPM AROMATIC HC	20 PPM AROMATIC HC	FD049427.D	10 Jun 2025 13:10		YP/AJ	Ok

M : Manual Integration

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Instrument ID: FID_D

Daily Analysis Runlog For Sequence/QCBatch ID # FD061125AR

Review By	yogesh	Review On	6/11/2025 3:09:24 PM		
Supervise By	mohammad	Supervise On	6/13/2025 1:40:17 AM		
SubDirectory	FD061125AR	HP Acquire Method		HP Processing Method	FD052425AR

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24500,PP24502,PP24503,PP24504,PP24505
CCC	PP24503
Internal Standard/PEM	
ICV/I.BLK	PP24501,PP24506
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	MECL2	MECL2	FD049428.D	11 Jun 2025 10:11		YP/AJ	Ok
2	I.BLK	I.BLK	FD049429.D	11 Jun 2025 10:51		YP/AJ	Ok
3	20 PPM AROMATIC HC	20 PPM AROMATIC HC	FD049430.D	11 Jun 2025 12:12		YP/AJ	Ok
4	PP24647	PP24647	FD049431.D	11 Jun 2025 15:52		YP/AJ	Ok
5	PB168408BL	PB168408BL	FD049432.D	11 Jun 2025 16:33		YP/AJ	Ok
6	PB168408BS	PB168408BS	FD049433.D	11 Jun 2025 17:15	naphthalene break down - 0.510, 2-methylnephthalene break down - 0.715	YP/AJ	Ok
7	PB168408BSD	PB168408BSD	FD049434.D	11 Jun 2025 17:57	naphthalene break down - 0.674, 2-methylnephthalene break down - 0.938	YP/AJ	Ok
8	Q2126-01	LOD-MDL-SOIL-03-QT	FD049435.D	11 Jun 2025 18:39	2.5 PPM SOIL LOD	YP/AJ	Ok
9	Q2126-01	LOD-MDL-SOIL-03-QT	FD049436.D	11 Jun 2025 19:23	5 PPM SOIL LOD	YP/AJ	Ok
10	Q2126-02	LOQ-SOIL-02-QT2-202	FD049437.D	11 Jun 2025 20:05	5 PPM SOIL LOQ	YP/AJ	Ok,M
11	Q2177-02	B-187-SB01	FD049438.D	11 Jun 2025 20:47	Surr Fail	YP/AJ	Not Ok
12	Q2177-02D	Q2177-02D	FD049439.D	11 Jun 2025 21:28	Surr Fail	YP/AJ	Not Ok
13	Q2177-02MS	Q2177-02MS	FD049440.D	11 Jun 2025 22:09		YP/AJ	Not Ok
14	Q2177-02MSD	Q2177-02MSD	FD049441.D	11 Jun 2025 22:50		YP/AJ	Not Ok
15	I.BLK	I.BLK	FD049442.D	11 Jun 2025 23:29		YP/AJ	Ok
16	20 PPM AROMATIC HC	20 PPM AROMATIC HC	FD049443.D	12 Jun 2025 00:09		YP/AJ	Ok

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Instrument ID: FID_D

Daily Analysis Runlog For Sequence/QCBatch ID # FD061125AR

Review By	yogesh	Review On	6/11/2025 3:09:24 PM		
Supervise By	mohammad	Supervise On	6/13/2025 1:40:17 AM		
SubDirectory	FD061125AR	HP Acquire Method		HP Processing Method	FD052425AR

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24500,PP24502,PP24503,PP24504,PP24505
CCC	PP24503
Internal Standard/PEM	
ICV/I.BLK	PP24501,PP24506
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

17	Q2177-04	B-187-SB02	FD049444.D	12 Jun 2025 01:28	Surr Fail	YP/AJ	Not Ok
18	Q2177-06	B-202-SB01	FD049445.D	12 Jun 2025 02:08	Surr Fail	YP/AJ	Not Ok
19	Q2198-01	B-202-SB02	FD049446.D	12 Jun 2025 02:48		YP/AJ	Ok
20	Q2198-03	B-207-SB02	FD049447.D	12 Jun 2025 03:27		YP/AJ	Ok
21	I.BLK	I.BLK	FD049448.D	12 Jun 2025 04:07		YP/AJ	Ok
22	20 PPM AROMATIC HC	20 PPM AROMATIC HC	FD049449.D	12 Jun 2025 04:46		YP/AJ	Ok
23	PB168409BL	PB168409BL	FD049450.D	12 Jun 2025 06:04		YP/AJ	Ok
24	Q2126-07	LOD-MDL-WATER-01-(	FD049451.D	12 Jun 2025 06:44	2.5 PPM WATER LOD	YP/AJ	Ok
25	Q2126-07	LOD-MDL-WATER-01-(	FD049452.D	12 Jun 2025 07:23	5 PPM WATER LOD	YP/AJ	Ok,M
26	Q2126-08	LOQ-WATER-02-QT2-2	FD049453.D	12 Jun 2025 08:02	5 PPM WATER LOQ	YP/AJ	Ok
27	I.BLK	I.BLK	FD049454.D	12 Jun 2025 08:41		YP/AJ	Ok
28	20 PPM AROMATIC HC	20 PPM AROMATIC HC	FD049455.D	12 Jun 2025 09:21		YP/AJ	Ok

M : Manual Integration

Alliance TECHNICAL GROUP
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Instrument ID: FID_D

Daily Analysis Runlog For Sequence/QCBatch ID # FD061325AR

Review By	yogesh	Review On	6/13/2025 10:27:20 AM		
Supervise By	mohammad	Supervise On	6/16/2025 8:33:02 AM		
SubDirectory	FD061325AR	HP Acquire Method		HP Processing Method	FD052425AR

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24500,PP24502,PP24503,PP24504,PP24505
CCC	PP24503
Internal Standard/PEM	
ICV/I.BLK	PP24501,PP24506
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	MECL2	MECL2	FD049479.D	13 Jun 2025 06:29		YP/AJ	Ok
2	I.BLK	I.BLK	FD049480.D	13 Jun 2025 07:07		YP/AJ	Ok
3	20 PPM AROMATIC HC	20 PPM AROMATIC HC	FD049481.D	13 Jun 2025 07:46		YP/AJ	Ok
4	Q2177-02	B-187-SB01	FD049482.D	13 Jun 2025 08:25		YP/AJ	Ok
5	Q2177-02D	Q2177-02D	FD049483.D	13 Jun 2025 09:04		YP/AJ	Ok
6	Q2177-02MS	B-187-SB01MS	FD049484.D	13 Jun 2025 09:48	FD049482.D	YP/AJ	Ok
7	Q2177-02MSD	B-187-SB01MSD	FD049485.D	13 Jun 2025 10:28	FD049482.D!FD049484.D	YP/AJ	Ok
8	Q2286-03DL	LAW-25-0084DL	FD049486.D	13 Jun 2025 11:07	need further dilution	YP/AJ	Dilution
9	Q2286-03DL2	LAW-25-0084DL2	FD049487.D	13 Jun 2025 11:47		YP/AJ	Ok
10	I.BLK	I.BLK	FD049488.D	13 Jun 2025 12:26		YP/AJ	Ok
11	20 PPM AROMATIC HC	20 PPM AROMATIC HC	FD049489.D	13 Jun 2025 13:06		YP/AJ	Ok

M : Manual Integration

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PB168324

12

A B C D E F G H I J

SOP ID: MNJDEP-EPH-7

Clean Up SOP #: N/A

Matrix : Water

Weigh By: N/A

Balance check: N/A

Balance ID: N/A

pH Strip Lot#: E3880

Extraction By: RS

Filter By: RS

pH Meter ID: N/A

Hood ID: 4,6,7

Extraction Start Date : 06/06/2025

Extraction Start Time : 09:10

Extraction End Date : 06/06/2025

Extraction End Time : 16:15

Concentration By: EH

Supervisor By : RUPESH

Extraction Method: [√] Seperatory Funnel [ ] Continious Liquid/Liquid [ ] Sonication [ ] Waste Dilution [ ] Soxhlet

Standared Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Spike Sol 1	1.0ML	100 PPM	PP24573
Surrogate	1.0ML	100 PPM	PP24591
Fractionation Surrogate	1.0ML	100 PPM	PP24623
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
Methylene Chloride	N/A	E3930
Baked Na2SO4	N/A	EP2614
Hexane	N/A	E3934
6N HCL	N/A	EP2615
EPH Cartridge	N/A	E3757
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

1.5ML Vial Lot # 2210443.

KD Bath ID: WATER BATH-1

KD Bath Temperature: 60 °C

Envap ID: NE VAP-02

Envap Temperature: 40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
6/6/25	RS (Ext lab)	T-P-Pest Ifo3
16:20	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PrepBatch ID : PB168324

Analytical Method: MNJDEP-EPH-7

Concentration Date: 06/06/2025

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB168324BL	PB168324BL	EPH	1000	<2	RUPESH	ritesh	2			SEP-1
PB168324BS	PB168324BS	EPH	1000	<2	RUPESH	ritesh	2			2
PB168324BSD	PB168324BSD	EPH	1000	<2	RUPESH	ritesh	2			3
Q2177-08	EB05312025	EPH	910	<2	RUPESH	ritesh	2	G		4
Q2198-05	B-202-GW01	EPH	990	<2	RUPESH	ritesh	2	G		5

RJ
6/6

* **Extracts relinguished on the same date as received.**

Q2198 168324 9:10

WORKLIST(Hardcopy Internal Chain)

WorkList Name : Q2177EPH **WorkList ID :** 189993 **Department :** Extraction **Date :** 06-06-2025 09:05:26

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2177-08	EB05312025	Water	EPH	1:1 HCl to pH < 2	PORT06	L41	05/31/2025	NJEPH
Q2198-05	B-202-GW01	Water	EPH	1:1 HCl to pH < 2	PORT06	N22	05/31/2025	NJEPH

1258 of 1607

Date/Time 6/6/25 9:05
Raw Sample Received by: RS (Ext lab)
Raw Sample Relinquished by: [signature]

Date/Time 6/6/25 · 9:30
Raw Sample Received by: [signature]
Raw Sample Relinquished by: RS (Ext lab)

J I H G F E D C B A 12

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PB168408

SOP ID:	MNJDEP-EPH-7				
Clean Up SOP #:	N/A			**Extraction Start Date :**	06/11/2025
Matrix :	Solid			**Extraction Start Time :**	08:45
Weigh By:	EH	**Extraction By:**	RJ	**Extraction End Date :**	06/11/2025
Balance check:	RJ	**Filter By:**	RJ	**Extraction End Time :**	15:45
Balance ID:	EX-SC-2	**pH Meter ID:**	N/A	**Concentration By:**	EH
pH Strip Lot#:	N/A	**Hood ID:**	3,7	**Supervisor By :**	ritesh

Extraction Method: ☐ Seperatory Funnel ☐ Continious Liquid/Liquid ☐ Sonication ☐ Waste Dilution ☑ Soxhlet

Standared Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Spike Sol 1	1.0ML	100 PPM	PP24573
Surrogate	1.0ML	100 PPM	PP24591
Fractionation Surrogate	1.0ML	100 PPM	PP24623
LOD	0.25ML/0.4ML	20 PPM	PP24131
LOQ	0.5ML	20 PPM	PP24131

Chemical Used	ML/SAMPLE USED	Lot Number
MeCl2/Acetone/1:1	N/A	EP2612
Baked Na2SO4	N/A	EP2620
Sand	N/A	E2865
Hexane	N/A	E3938
Methylene Chloride	N/A	E3939
EPH Cartridge	N/A	E3757
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

1.5ML Vial Lot # 2210443.

KD Bath ID:	N/A	**Envap ID:**	NEVAP-02
KD Bath Temperature:	N/A	**Envap Temperature:**	40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
06/11/25	RP (Extr Tech)	Y-Prep/GC/MS
15:50	**Preparation Group**	**Analysis Group**

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PrepBatch ID : PB168408

Analytical Method: MNJDEP-EPH-7 **Concentration Date:** 06/11/2025

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB168408BL	PB168408BL	EPH	30.01	N/A	ritesh	Evelyn	2			U2-1
PB168408BS	PB168408BS	EPH	30.02	N/A	ritesh	Evelyn	2			2
PB168408BSD	PB168408BSD	EPH	30.03	N/A	ritesh	Evelyn	2			3
Q2126-01	LOD-MDL-SOIL-03-QT2-2025 0.25 ML	EPH	30.04	N/A	ritesh	Evelyn	2			4
Q2126-02	LOQ-SOIL-02-QT2-2025 0.5 ML	EPH	30.02	N/A	ritesh	Evelyn	2			5
Q2177-02	B-187-SB01	EPH	30.06	N/A	ritesh	Evelyn	2	F		6
Q2177-02DUP	B-187-SB01DUP	EPH	30.08	N/A	ritesh	Evelyn	2	F		U3-1
Q2177-02MS	B-187-SB01MS	EPH	30.03	N/A	ritesh	Evelyn	2	F		2
Q2177-02MSD	B-187-SB01MSD	EPH	30.04	N/A	ritesh	Evelyn	2	F		3
Q2177-04	B-187-SB02	EPH	30.01	N/A	ritesh	Evelyn	2	F		4
Q2177-06	B-202-SB01	EPH	30.03	N/A	ritesh	Evelyn	2	F		5
Q2198-01	B-202-SB02	EPH	30.05	N/A	ritesh	Evelyn	2	D		6
Q2198-03	B-207-SB02	EPH	30.06	N/A	ritesh	Evelyn	2	D		U1-1
	LOD 0.4ML	1	30.01	1	1	1	2			1

* **Extracts relinquished on the same date as received.**

6/11/25

Q2198

WORKLIST(Hardcopy Internal Chain)

WorkList Name : Q2177E **WorkList ID :** 190091 **Department :** Extraction **Date :** 06-11-2025 08:43:23

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2126-01	LOD-MDL-SOIL-03-QT2-2025	Solid	EPH	Cool 4 deg C	ALLI03	QA Of	05/23/2025	NJEPH
Q2126-02	LOQ-SOIL-02-QT2-2025	Solid	EPH	Cool 4 deg C	ALLI03	QA Of	05/23/2025	NJEPH
Q2177-02	B-187-SB01	Solid	EPH	Cool 4 deg C	PORT06	L41	05/31/2025	NJEPH
Q2177-04	B-187-SB02	Solid	EPH	Cool 4 deg C	PORT06	L41	05/31/2025	NJEPH
Q2177-06	B-202-SB01	Solid	EPH	Cool 4 deg C	PORT06	L41	05/31/2025	NJEPH
Q2198-01	B-202-SB02	Solid	EPH	Cool 4 deg C	PORT06	N22	05/31/2025	NJEPH
Q2198-03	B-207-SB02	Solid	EPH	Cool 4 deg C	PORT06	N22	06/01/2025	NJEPH

1261 of 1607

Date/Time 06/11/25 8:44
Raw Sample Received by: RJ (Ext lab)
Raw Sample Relinquished by:

Date/Time 06/11/25 9:15
Raw Sample Received by:
Raw Sample Relinquished by: RJ (Ext lab)

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LAB CHRONICLE

OrderID:	Q2198	**OrderDate:**	6/3/2025 2:31:00 PM
Client:	Portal Partners Tri-Venture	**Project:**	Amtrak Sawtooth Bridges 2025
Contact:	Joseph Krupansky	**Location:**	N22,VOA Ref. #2 Soil,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2198-01	**B-202-SB02**	**SOIL**			**05/31/25**			**06/03/25**
			PCB	8082A		06/04/25	06/04/25	
			TPH GC	8015D		06/10/25	06/10/25	
			EPH	NJEPH		06/11/25	06/12/25	
Q2198-02	**B-202-SB02**	**TCLP**			**05/31/25**			**06/03/25**
			TCLP Herbicide	8151A		06/06/25	06/09/25	
			TCLP Pesticide	8081B		06/06/25	06/09/25	
Q2198-03	**B-207-SB02**	**SOIL**			**06/01/25**			**06/03/25**
			TPH GC	8015D		06/10/25	06/10/25	
			PCB	8082A		06/04/25	06/04/25	
			EPH	NJEPH		06/11/25	06/12/25	
Q2198-04	**B-207-SB02**	**TCLP**			**06/01/25**			**06/03/25**
			TCLP Herbicide	8151A		06/06/25	06/09/25	
			TCLP Pesticide	8081B		06/06/25	06/09/25	
Q2198-05	**B-202-GW01**	**WATER**			**05/31/25**			**06/03/25**
			PCB	8082A		06/06/25	06/06/25	
			EPH	NJEPH		06/06/25	06/09/25	
			EPH	NJEPH		06/06/25	06/10/25	

SAMPLE DATA

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	05/31/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	06/03/25
Client Sample ID:	B-202-SB02	SDG No.:	Q2198
Lab Sample ID:	Q2198-01	Matrix:	SOIL
Analytical Method:	8015D TPH	% Solid:	71.9 Decanted:
Sample Wt/Vol:	30.08 Units: g	Final Vol:	1 mL
Soil Aliquot Vol:	uL	Test:	TPH GC
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG016016.D	1	06/10/25 08:16	06/10/25 18:03	PB168382

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
PHC	Petroleum Hydrocarbons	9570		533	3930	ug/kg
SURROGATES						
16416-32-3	TETRACOSANE-d50	16.4		37 - 130	82%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	06/01/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	06/03/25
Client Sample ID:	B-207-SB02	SDG No.:	Q2198
Lab Sample ID:	Q2198-03	Matrix:	SOIL
Analytical Method:	8015D TPH	% Solid:	52.1 Decanted:
Sample Wt/Vol:	30.05 Units: g	Final Vol:	1 mL
Soil Aliquot Vol:	uL	Test:	TPH GC
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG016017.D	1	06/10/25 08:16	06/10/25 18:32	PB168382

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
PHC	Petroleum Hydrocarbons	21400		736	5430	ug/kg
SURROGATES						
16416-32-3	TETRACOSANE-d50	10.2		37 - 130	51%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
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D = Dilution
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() = Laboratory InHouse Limit

QC SUMMARY

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SOIL TPH GC SURROGATE RECOVERY

Lab Name: Chemtech Client: Portal Partners Tri-Venture

Lab Code: CHEM Case No.: Q2198 SAS No.: Q2198 SDG No.: Q2198

EPA SAMPLE NO.	S1 TETRACOSANE-d50	S2	S3	S4	TOT OUT
PIBLK-FG016009.D	78				0
PIBLK-FG016021.D	82				0
PB168382BL	70				0
PB168382BS	75				0
B-202-SB02	82				0
B-207-SB02	51				0
BU-03-060525MS	44				0
BU-03-060525MSD	44				0

	QC LIMITS
TETRACOSANE-d50	For Water : 29-130 For Soil : 37-130

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate Diluted Out

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SOIL TPH GC MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** Portal Partners Tri-Venture

Lab Code: CHEM **Cas No:** Q2198 **SAS No :** Q2198 **SDG No:** Q2198

Client SampleID : BU-03-060525MS **Datafile:** FG016019.D

COMPOUND	SPIKE ADDED ug/kg	SAMPLE CONCENTRATION ug/kg	MS/MSD CONCENTRATION ug/kg	% REC	Qual	QC LIMITS
Petroleum Hydrocarbons	11421	9230	22867	119%		68-131

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SOIL TPH GC MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** Portal Partners Tri-Venture

Lab Code: CHEM **Cas No:** Q2198 **SAS No :** Q2198 **SDG No:** Q2198

Client SampleID : BU-03-060525MSD **Datafile:** FG016020.D

COMPOUND	SPIKE ADDED ug/kg	SAMPLE CONCENTRATION ug/kg	MS/MSD CONCENTRATION ug/kg	% REC	Qual	QC LIMITS
Petroleum Hydrocarbons	11414	9230	23299	123%		68-131

MS/MSD % Recovery RPD : 3.2

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SOIL TPH GC LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** Portal Partners Tri-Venture

Lab Code: CHEM **Cas No:** Q2198 **SAS No :** Q2198 **SDG No:** Q2198

Matrix Spike - EPA Sample No : PB168382BS **Datafile:** FG016012.D

COMPOUND	SPIKE ADDED ug/kg	CONCENTRATION ug/kg	LCS/LCSD CONCENTRATION ug/kg	% REC	QC LIMITS
Petroleum Hydrocarbons	11326	0	11840	104	68-131

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4B
METHOD BLANK SUMMARY

EPA SAMPLE NO.
PB168382BL

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q2198 SAS No.: Q2198 SDG NO.: Q2198

Lab File ID: FG016011.D Lab Sample ID: PB168382BL

Instrument ID: FG Date Extracted: 06/10/2025

Matrix: (soil/water) Soil Date Analyzed: 06/10/25

Level: (low/med) low Time Analyzed: 15:36

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB168382BS	PB168382BS	FG016012.D	06/10/25
B-202-SB02	Q2198-01	FG016016.D	06/10/25
B-207-SB02	Q2198-03	FG016017.D	06/10/25
BU-03-060525MS	Q2246-01MS	FG016019.D	06/10/25
BU-03-060525MSD	Q2246-01MSD	FG016020.D	06/10/25

COMMENTS:

QC SAMPLE DATA

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB168382BL	SDG No.:	Q2198
Lab Sample ID:	PB168382BL	Matrix:	SOIL
Analytical Method:	8015D TPH	% Solid:	100 Decanted:
Sample Wt/Vol:	30.03 Units: g	Final Vol:	1 mL
Soil Aliquot Vol:	uL	Test:	TPH GC
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG016011.D	1	06/10/25 08:16	06/10/25 15:36	PB168382

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
PHC	Petroleum Hydrocarbons	384	U	384	2830	ug/kg
SURROGATES						
16416-32-3	TETRACOSANE-d50	14.1		37 - 130	70%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	06/10/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	06/10/25
Client Sample ID:	PIBLK-FG016009.D	SDG No.:	Q2198
Lab Sample ID:	I.BLK-FG016009.D	Matrix:	Water
Analytical Method:	8015D TPH	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1 mL
Soil Aliquot Vol:	uL	Test:	TPH GC
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :	SW3510		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG016009.D	1		06/10/25	FG061025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
PHC	Petroleum Hydrocarbons	12.0	U	12.0	85.0	ug/L
SURROGATES						
16416-32-3	TETRACOSANE-d50	15.7		29 - 130	78%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

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S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	06/10/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	06/10/25
Client Sample ID:	PIBLK-FG016021.D	SDG No.:	Q2198
Lab Sample ID:	I.BLK-FG016021.D	Matrix:	Water
Analytical Method:	8015D TPH	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1 mL
Soil Aliquot Vol:	uL	Test:	TPH GC
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :	SW3510		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG016021.D	1		06/10/25	FG061025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
PHC	Petroleum Hydrocarbons	12.0	U	12.0	85.0	ug/L
SURROGATES						
16416-32-3	TETRACOSANE-d50	16.3		29 - 130	82%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
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() = Laboratory InHouse Limit

Alliance TECHNICAL GROUP
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Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB168382BS	SDG No.:	Q2198
Lab Sample ID:	PB168382BS	Matrix:	SOIL
Analytical Method:	8015D TPH	% Solid:	100 Decanted:
Sample Wt/Vol:	30.02 Units: g	Final Vol:	1 mL
Soil Aliquot Vol:	uL	Test:	TPH GC
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG016012.D	1	06/10/25 08:16	06/10/25 16:05	PB168382

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
PHC	Petroleum Hydrocarbons	11800		384	2830	ug/kg
SURROGATES						
16416-32-3	TETRACOSANE-d50	15.1		37 - 130	75%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
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() = Laboratory InHouse Limit

Alliance TECHNICAL GROUP
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Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	06/05/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	06/05/25
Client Sample ID:	BU-03-060525MS	SDG No.:	Q2198
Lab Sample ID:	Q2246-01MS	Matrix:	SOIL
Analytical Method:	8015D TPH	% Solid:	99 Decanted:
Sample Wt/Vol:	30.07 Units: g	Final Vol:	1 mL
Soil Aliquot Vol:	uL	Test:	TPH GC
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG016019.D	1	06/10/25 08:16	06/10/25 19:31	PB168382

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
PHC	Petroleum Hydrocarbons	22900		387	2860	ug/kg
SURROGATES						
16416-32-3	TETRACOSANE-d50	8.89		37 - 130	44%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	06/05/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	06/05/25
Client Sample ID:	BU-03-060525MSD	SDG No.:	Q2198
Lab Sample ID:	Q2246-01MSD	Matrix:	SOIL
Analytical Method:	8015D TPH	% Solid:	99 Decanted:
Sample Wt/Vol:	30.09 Units: g	Final Vol:	1 mL
Soil Aliquot Vol:	uL	Test:	TPH GC
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG016020.D	1	06/10/25 08:16	06/10/25 20:01	PB168382

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
PHC	Petroleum Hydrocarbons	23300		387	2850	ug/kg
SURROGATES						
16416-32-3	TETRACOSANE-d50	8.88		37 - 130	44%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

CALIBRATION SUMMARY

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TPH GC INITIAL CALIBRATION SUMMARY

Lab Name: Chemtech Contract: PORT06

ProjectID: Amtrak Sawtooth Bridges 2025

Lab Code: CHEM Case No.: Q2198 SAS No.: Q2198 SDG No.: Q2198

Calibration Sequence : FG052225		Test : TPH GC	
Concentration (PPM)	**Area Count**	**Reference Factor**	**File ID**
1700	205023420	120602	FG015886.D
850	105950670	124648	FG015887.D
340	42697248	125580	FG015888.D
170	22436219	131978	FG015889.D
85	10374809	122057	FG015890.D
AVG RF : 124973	**% RSD : 3.514**		**AVG RT : 14.9848**

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TPH GC CONTINUING CALIBRATION SUMMARY

50 PPM TRPH STD

Lab Name: Chemtech Contract: PORT06

ProjectID: Amtrak Sawtooth Bridges 2025

Lab Code: CHEM Case No.: Q2198 SAS No.: Q2198 SDG No.: Q2198

DataFile: FG016010.D Analyst Name: YP\AJ Analyst Date: 06-10-2025

Conc. (PPM)	Area Count	RF	Average RF	%D
850	99554971	117123	124973	6.281

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TPH GC CONTINUING CALIBRATION SUMMARY

50 PPM TRPH STD

Lab Name: Chemtech Contract: PORT06

ProjectID: Amtrak Sawtooth Bridges 2025

Lab Code: CHEM Case No.: Q2198 SAS No.: Q2198 SDG No.: Q2198

DataFile: FG016022.D Analyst Name: YP\AJ Analyst Date: 06-10-2025

Conc. (PPM)	Area Count	RF	Average RF	%D
850	103907568	122244	124973	2.184

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Analytical Sequence

Client: Portal Partners Tri-Venture **SDG No.:** Q2198

Project: Amtrak Sawtooth Bridges 2025 **Instrument ID:** FID_G

GC Column: RXI-1MS **ID:** 0.18 **(mm)**

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SUROGATE RT FROM INITIAL CALIBRATION **14.9848**

EPA SAMPLE NO.	LAB SAMPLE ID	DATE AND TIME ANALYZED	DATAFILE	RT	#
PIBLK01	I.BLK01	10 Jun 2025 14:37	FG016009.D	14.973	
50 PPM TRPH STD	50 PPM TRPH STD	10 Jun 2025 15:06	FG016010.D	14.976	
PB168382BL	PB168382BL	10 Jun 2025 15:36	FG016011.D	14.974	
PB168382BS	PB168382BS	10 Jun 2025 16:05	FG016012.D	14.973	
B-202-SB02	Q2198-01	10 Jun 2025 18:03	FG016016.D	14.973	
B-207-SB02	Q2198-03	10 Jun 2025 18:32	FG016017.D	14.970	
BU-03-060525MS	Q2246-01MS	10 Jun 2025 19:31	FG016019.D	14.973	
BU-03-060525MSD	Q2246-01MSD	10 Jun 2025 20:01	FG016020.D	14.973	
PIBLK02	I.BLK02	10 Jun 2025 20:30	FG016021.D	14.974	
50 PPM TRPH STD	50 PPM TRPH STD	10 Jun 2025 21:00	FG016022.D	14.976	

 # Column used to flag RT values with an * values outside of QC limits

QC Limits	Lower Limit	Upper Limits
(± 0.10 minutes)	14.8848	15.0848

SAMPLE RAW DATA

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG061025\
Data File : FG016016.D
Signal(s) : FID1A.ch
Acq On : 10 Jun 2025 18:03
Operator : YP\AJ
Sample : Q2198-01
Misc :
ALS Vial : 31 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
B-202-SB02

Integration File: autoint1.e
Quant Time: Jun 11 05:53:26 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG052225.M
Quant Title :
QLast Update : Thu May 22 06:20:25 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal Phase : Rxi-1ms
Signal Info : 20mx0.18mmx0.18um

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
9) S TETRACOSANE-d50 (SURR...	14.973	2014367	16.436 ug/ml
Target Compounds			

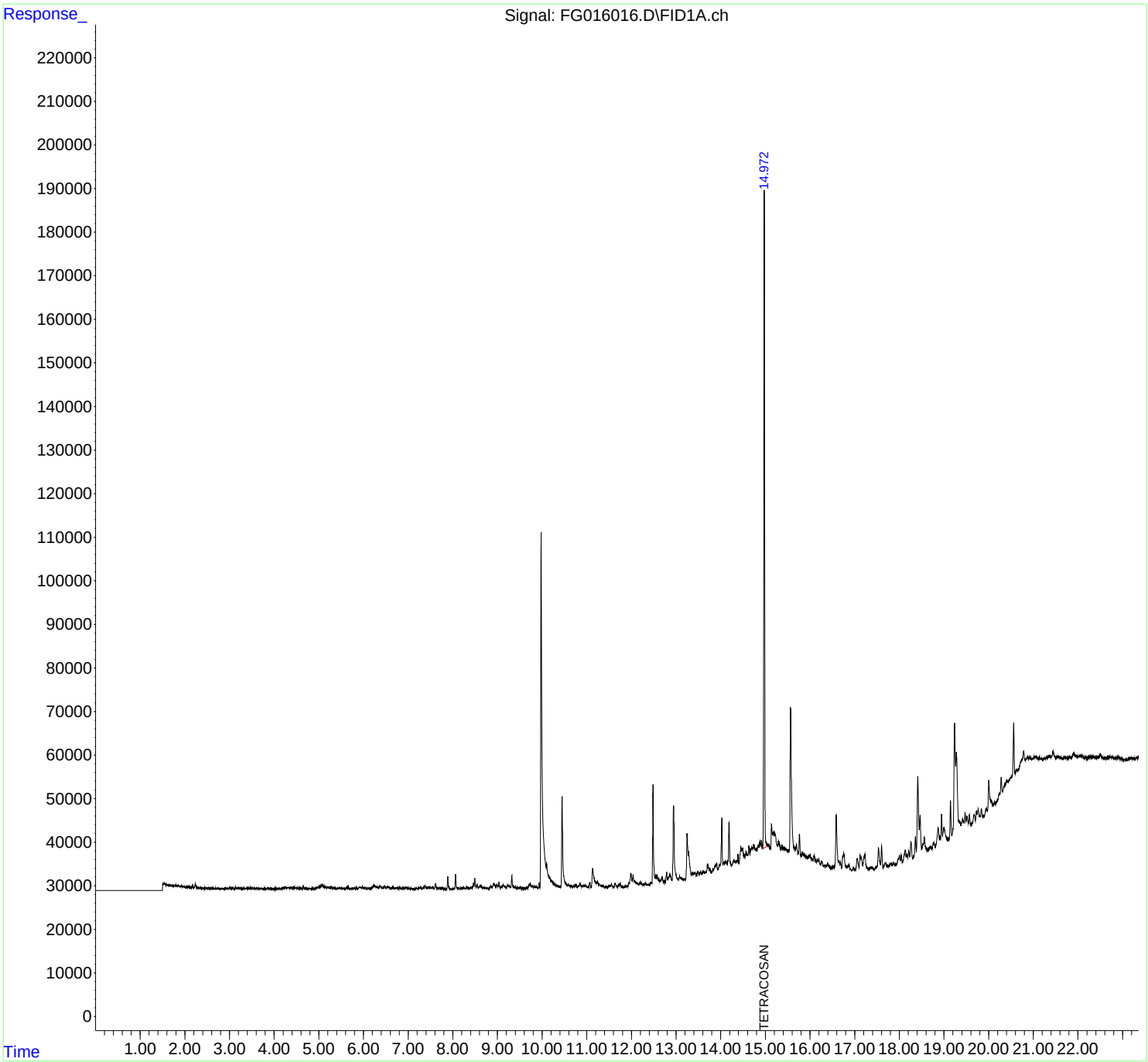
(f)=RT Delta > 1/2 Window (m)=manual int.

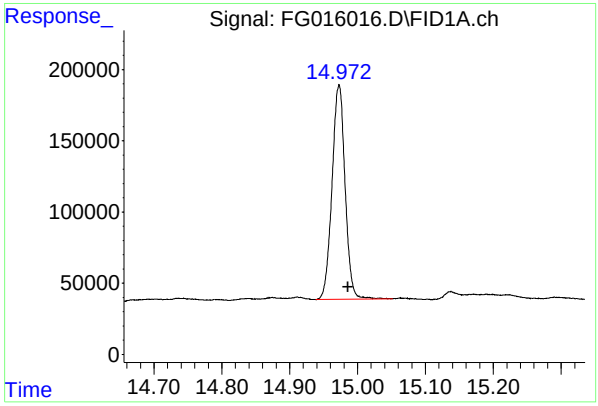
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG061025\
Data File : FG016016.D
Signal(s) : FID1A.ch
Acq On : 10 Jun 2025 18:03
Operator : YP\AJ
Sample : Q2198-01
Misc :
ALS Vial : 31 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
B-202-SB02

Integration File: autoint1.e
Quant Time: Jun 11 05:53:26 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG052225.M
Quant Title :
QLast Update : Thu May 22 06:20:25 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal Phase : Rxi-1ms
Signal Info : 20mx0.18mmx0.18um





#9 TETRACOSANE-d50 (SURROGATE)

R.T.: 14.973 min
Delta R.T.: -0.013 mi
Response: 2014367
Conc: 16.44 ug/m

Instrument :
FID_G
ClientSampleId :
B-202-SB02

13

A B C D E F G H I J

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG061025\
Data File : FG016016.D
Signal(s) : FID1A.ch
Acq On : 10 Jun 2025 18:03
Sample : Q2198-01
Misc :
ALS Vial : 31 Sample Multiplier: 1

Integration File: Sample.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG052225.M
Title :

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	1.942	1.924	1.945	BV	54	272	0.01%	0.001%
2	1.950	1.945	1.986	PV	142	1800	0.07%	0.006%
3	1.991	1.986	1.995	VV	57	210	0.01%	0.001%
4	1.997	1.995	2.014	VV	94	364	0.01%	0.001%
5	2.025	2.014	2.028	VV	126	464	0.02%	0.002%
6	2.033	2.028	2.042	PV	138	650	0.03%	0.002%
7	2.052	2.042	2.056	VV	97	542	0.02%	0.002%
8	2.060	2.056	2.070	VV	145	721	0.03%	0.003%
9	2.078	2.070	2.122	VV	110	2516	0.10%	0.009%
10	2.126	2.122	2.154	VV	156	1219	0.05%	0.004%
11	2.167	2.154	2.213	PV	490	8730	0.35%	0.031%
12	2.233	2.213	2.262	VV	1053	14738	0.59%	0.053%
13	2.271	2.262	2.287	VV	269	2920	0.12%	0.010%
14	2.290	2.287	2.303	VV	126	1039	0.04%	0.004%
15	2.308	2.303	2.320	VV	156	874	0.04%	0.003%
16	2.325	2.320	2.339	VV	121	692	0.03%	0.002%
17	2.342	2.339	2.360	VV	72	778	0.03%	0.003%
18	2.363	2.360	2.377	VV	100	504	0.02%	0.002%
19	2.389	2.377	2.407	VV	115	1252	0.05%	0.004%
20	2.420	2.407	2.431	VV	159	1380	0.06%	0.005%
21	2.435	2.431	2.455	VV	196	947	0.04%	0.003%
22	2.459	2.455	2.463	PV	113	348	0.01%	0.001%
23	2.467	2.463	2.517	VV	98	2465	0.10%	0.009%
24	2.522	2.517	2.528	VV	113	463	0.02%	0.002%
25	2.533	2.528	2.544	PV	90	805	0.03%	0.003%
26	2.549	2.544	2.562	VV	120	995	0.04%	0.004%
27	2.570	2.562	2.575	VV	161	741	0.03%	0.003%
28	2.579	2.575	2.607	VV	144	1811	0.07%	0.006%
29	2.612	2.607	2.628	VV	132	1048	0.04%	0.004%
30	2.632	2.628	2.638	VV	112	563	0.02%	0.002%
31	2.640	2.638	2.651	VV	159	696	0.03%	0.002%
32	2.655	2.651	2.677	VV	106	1082	0.04%	0.004%
33	2.682	2.677	2.698	PV	172	960	0.04%	0.003%
34	2.704	2.698	2.710	VV	115	584	0.02%	0.002%
35	2.732	2.710	2.745	VV	179	2422	0.10%	0.009%
36	2.748	2.745	2.779	VV	174	1950	0.08%	0.007%

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37	2.784	2.779	2.792	VV	147	756	0.03%	0.003%
38	2.797	2.792	2.820	VV	144	1199	0.05%	0.004%
39	2.825	2.820	2.830	VV	116	588	0.02%	0.002%
40	2.834	2.830	2.840	VV	158	622	0.03%	0.002%
41	2.846	2.840	2.851	VV	158	678	0.03%	0.002%
42	2.860	2.851	2.868	VV	106	830	0.03%	0.003%
43	2.872	2.868	2.882	VV	155	937	0.04%	0.003%
44	2.902	2.882	2.920	VV	314	2869	0.12%	0.010%
45	2.921	2.920	2.940	VV	186	1317	0.05%	0.005%
46	2.944	2.940	2.963	VV	162	1592	0.06%	0.006%
47	2.975	2.963	2.980	VV	176	1247	0.05%	0.004%
48	3.000	2.980	3.025	VV	409	5921	0.24%	0.021%
49	3.026	3.025	3.029	VV	218	443	0.02%	0.002%
50	3.034	3.029	3.050	VV	216	1898	0.08%	0.007%
51	3.054	3.050	3.060	VV	213	846	0.03%	0.003%
52	3.064	3.060	3.069	VV	163	631	0.03%	0.002%
53	3.085	3.069	3.113	VV	182	3550	0.14%	0.013%
54	3.133	3.113	3.174	VV	342	8187	0.33%	0.029%
55	3.179	3.174	3.183	VV	197	889	0.04%	0.003%
56	3.188	3.183	3.199	VV	193	1350	0.05%	0.005%
57	3.210	3.199	3.219	VV	245	2028	0.08%	0.007%
58	3.224	3.219	3.255	VV	226	3425	0.14%	0.012%
59	3.262	3.255	3.268	VV	201	1043	0.04%	0.004%
60	3.269	3.268	3.330	VV	229	5324	0.21%	0.019%
61	3.346	3.330	3.352	VV	149	1519	0.06%	0.005%
62	3.357	3.352	3.374	VV	150	1703	0.07%	0.006%
63	3.406	3.374	3.424	VV	228	5203	0.21%	0.019%
64	3.428	3.424	3.459	VV	206	3635	0.15%	0.013%
65	3.464	3.459	3.474	VV	244	1695	0.07%	0.006%
66	3.482	3.474	3.511	VV	228	3921	0.16%	0.014%
67	3.524	3.511	3.552	VV	200	4269	0.17%	0.015%
68	3.566	3.552	3.601	VV	234	4695	0.19%	0.017%
69	3.610	3.601	3.629	VV	168	2410	0.10%	0.009%
70	3.634	3.629	3.651	VV	177	1548	0.06%	0.006%
71	3.656	3.651	3.659	VV	130	514	0.02%	0.002%
72	3.665	3.659	3.689	VV	141	1928	0.08%	0.007%
73	3.700	3.689	3.728	VV	149	2604	0.10%	0.009%
74	3.733	3.728	3.754	VV	121	1801	0.07%	0.006%
75	3.759	3.754	3.784	VV	151	2330	0.09%	0.008%
76	3.788	3.784	3.802	VV	214	1205	0.05%	0.004%
77	3.812	3.802	3.819	VV	163	1058	0.04%	0.004%
78	3.824	3.819	3.841	VV	152	1707	0.07%	0.006%
79	3.843	3.841	3.870	VV	155	1779	0.07%	0.006%
80	3.873	3.870	3.875	VV	93	305	0.01%	0.001%
81	3.880	3.875	3.914	VV	130	2317	0.09%	0.008%
82	3.922	3.914	3.941	VV	158	1804	0.07%	0.006%
83	3.942	3.941	3.978	VV	166	2068	0.08%	0.007%
84	3.988	3.978	4.009	VV	125	1552	0.06%	0.006%
85	4.014	4.009	4.018	VV	160	519	0.02%	0.002%
86	4.029	4.018	4.039	VV	144	1011	0.04%	0.004%
87	4.046	4.039	4.059	VV	118	913	0.04%	0.003%
88	4.061	4.059	4.066	VV	122	310	0.01%	0.001%
89	4.073	4.066	4.097	PV	72	866	0.03%	0.003%

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90	4.122	4.097	4.132	VV	140	1717	0.07%	0.006%
91	4.204	4.132	4.217	VV	271	8434	0.34%	0.030%
92	4.236	4.217	4.260	VV	332	7389	0.30%	0.027%
93	4.264	4.260	4.268	VV	336	1413	0.06%	0.005%
94	4.305	4.268	4.309	VV	384	7935	0.32%	0.028%
95	4.315	4.309	4.345	VV	399	7224	0.29%	0.026%
96	4.349	4.345	4.354	VV	342	1659	0.07%	0.006%
97	4.362	4.354	4.377	VV	332	4001	0.16%	0.014%
98	4.384	4.377	4.404	VV	299	4557	0.18%	0.016%
99	4.416	4.404	4.431	VV	320	4505	0.18%	0.016%
100	4.439	4.431	4.453	VV	310	3416	0.14%	0.012%
101	4.458	4.453	4.461	VV	305	1234	0.05%	0.004%
102	4.479	4.461	4.495	VV	397	6309	0.25%	0.023%
103	4.500	4.495	4.526	VV	290	4347	0.18%	0.016%
104	4.529	4.526	4.574	VV	238	5985	0.24%	0.021%
105	4.577	4.574	4.582	VV	201	925	0.04%	0.003%
106	4.592	4.582	4.601	VV	229	2388	0.10%	0.009%
107	4.605	4.601	4.612	VV	224	1312	0.05%	0.005%
108	4.617	4.612	4.630	VV	188	1523	0.06%	0.005%
109	4.654	4.630	4.697	VV	586	13456	0.54%	0.048%
110	4.704	4.697	4.723	VV	211	2664	0.11%	0.010%
111	4.727	4.723	4.734	VV	191	1120	0.05%	0.004%
112	4.741	4.734	4.761	VV	194	2418	0.10%	0.009%
113	4.767	4.761	4.782	VV	169	1766	0.07%	0.006%
114	4.787	4.782	4.798	VV	170	1168	0.05%	0.004%
115	4.815	4.798	4.841	VV	177	2976	0.12%	0.011%
116	4.849	4.841	4.879	VV	186	2659	0.11%	0.010%
117	4.892	4.879	4.904	VV	181	1888	0.08%	0.007%
118	4.920	4.904	4.923	VV	218	2045	0.08%	0.007%
119	4.989	4.923	4.999	VV	553	16363	0.66%	0.059%
120	5.014	4.999	5.023	VV	577	7196	0.29%	0.026%
121	5.026	5.023	5.029	VV	563	1933	0.08%	0.007%
122	5.033	5.029	5.036	VV	680	2516	0.10%	0.009%
123	5.078	5.036	5.126	VV	891	38504	1.55%	0.138%
124	5.137	5.126	5.169	VV	528	11782	0.47%	0.042%
125	5.191	5.169	5.257	VV	497	20745	0.84%	0.074%
126	5.282	5.257	5.297	VV	494	9177	0.37%	0.033%
127	5.304	5.297	5.315	VV	372	3484	0.14%	0.012%
128	5.317	5.315	5.338	VV	373	3935	0.16%	0.014%
129	5.346	5.338	5.367	VV	270	3992	0.16%	0.014%
130	5.373	5.367	5.376	VV	220	1042	0.04%	0.004%
131	5.380	5.376	5.387	VV	234	1222	0.05%	0.004%
132	5.394	5.387	5.403	VV	202	1632	0.07%	0.006%
133	5.420	5.403	5.444	VV	244	4131	0.17%	0.015%
134	5.479	5.444	5.521	VV	372	12230	0.49%	0.044%
135	5.528	5.521	5.534	VV	189	1301	0.05%	0.005%
136	5.544	5.534	5.558	VV	195	2475	0.10%	0.009%
137	5.562	5.558	5.597	VV	208	2721	0.11%	0.010%
138	5.623	5.597	5.639	VV	569	8956	0.36%	0.032%
139	5.653	5.639	5.704	VV	749	12266	0.49%	0.044%
140	5.726	5.704	5.731	VV	275	2432	0.10%	0.009%
141	5.736	5.731	5.742	VV	212	1204	0.05%	0.004%

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142	5.748	5.742	5.757	VV	202	1525	0.06%	0.005%
143	5.760	5.757	5.781	VV	210	2177	0.09%	0.008%
144	5.784	5.781	5.789	VV	230	905	0.04%	0.003%
145	5.794	5.789	5.802	VV	192	1481	0.06%	0.005%
146	5.825	5.802	5.853	VV	309	7488	0.30%	0.027%
147	5.857	5.853	5.867	VV	246	1899	0.08%	0.007%
148	5.916	5.867	5.958	VV	581	19362	0.78%	0.069%
149	5.971	5.958	5.999	VV	496	8567	0.34%	0.031%
150	6.005	5.999	6.008	VV	239	1244	0.05%	0.004%
151	6.022	6.008	6.044	VV	317	5052	0.20%	0.018%
152	6.052	6.044	6.062	VV	202	1966	0.08%	0.007%
153	6.072	6.062	6.079	VV	213	1814	0.07%	0.007%
154	6.095	6.079	6.127	VV	332	6414	0.26%	0.023%
155	6.141	6.127	6.145	VV	245	1692	0.07%	0.006%
156	6.150	6.145	6.152	VV	207	771	0.03%	0.003%
157	6.158	6.152	6.174	VV	254	2666	0.11%	0.010%
158	6.240	6.174	6.286	VV	890	40193	1.62%	0.144%
159	6.291	6.286	6.315	VV	591	9429	0.38%	0.034%
160	6.372	6.315	6.442	VV	799	37748	1.52%	0.135%
161	6.471	6.442	6.504	VV	666	18948	0.76%	0.068%
162	6.509	6.504	6.514	VV	371	1991	0.08%	0.007%
163	6.542	6.514	6.601	VV	649	23500	0.95%	0.084%
164	6.612	6.601	6.641	VV	290	5919	0.24%	0.021%
165	6.657	6.641	6.700	VV	742	13618	0.55%	0.049%
166	6.724	6.700	6.749	VV	313	6996	0.28%	0.025%
167	6.756	6.749	6.783	VV	264	4572	0.18%	0.016%
168	6.810	6.783	6.834	VV	443	8503	0.34%	0.030%
169	6.888	6.834	6.920	VV	308	11544	0.46%	0.041%
170	6.946	6.920	6.969	VV	455	9065	0.37%	0.033%
171	6.978	6.969	7.047	VV	304	9719	0.39%	0.035%
172	7.061	7.047	7.102	VV	244	4949	0.20%	0.018%
173	7.119	7.102	7.142	VV	163	2567	0.10%	0.009%
174	7.187	7.142	7.216	VV	284	6746	0.27%	0.024%
175	7.236	7.216	7.266	VV	417	8392	0.34%	0.030%
176	7.280	7.266	7.319	VV	429	8944	0.36%	0.032%
177	7.378	7.319	7.424	VV	757	27035	1.09%	0.097%
178	7.457	7.424	7.467	VV	446	9989	0.40%	0.036%
179	7.476	7.467	7.488	VV	457	5017	0.20%	0.018%
180	7.502	7.488	7.529	VV	412	9473	0.38%	0.034%
181	7.544	7.529	7.584	VV	492	12167	0.49%	0.044%
182	7.610	7.584	7.667	VV	1287	26836	1.08%	0.096%
183	7.689	7.667	7.718	VV	341	7872	0.32%	0.028%
184	7.728	7.718	7.766	VV	255	5980	0.24%	0.021%
185	7.781	7.766	7.808	VV	252	4084	0.16%	0.015%
186	7.828	7.808	7.839	PV	113	836	0.03%	0.003%
187	7.890	7.839	7.937	VV	2934	38934	1.57%	0.140%
188	7.947	7.937	7.962	VV	211	1914	0.08%	0.007%
189	7.976	7.962	8.002	VV	124	1718	0.07%	0.006%
190	8.063	8.002	8.118	VV	3439	48552	1.96%	0.174%
191	8.138	8.118	8.156	VV	285	4125	0.17%	0.015%
192	8.184	8.156	8.206	VV	492	8048	0.32%	0.029%
193	8.241	8.206	8.271	VV	398	9029	0.36%	0.032%
194	8.276	8.271	8.292	VV	189	2224	0.09%	0.008%

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195	8.310	8.292	8.332	VV	607	8832	0.36%	0.032%
196	8.345	8.332	8.363	VV	345	4888	0.20%	0.018%
197	8.375	8.363	8.386	VV	274	3069	0.12%	0.011%
198	8.405	8.386	8.419	VV	311	5439	0.22%	0.020%
199	8.462	8.419	8.476	VV	1313	23017	0.93%	0.083%
200	8.494	8.476	8.525	VV	2570	38801	1.56%	0.139%
201	8.546	8.525	8.574	VV	1154	19110	0.77%	0.069%
202	8.637	8.574	8.690	VV	744	32639	1.31%	0.117%
203	8.696	8.690	8.724	VV	282	4878	0.20%	0.017%
204	8.735	8.724	8.755	VV	279	3792	0.15%	0.014%
205	8.787	8.755	8.812	VV	221	3915	0.16%	0.014%
206	8.853	8.812	8.885	VV	691	18048	0.73%	0.065%
207	8.917	8.885	8.966	VV	1204	38680	1.56%	0.139%
208	8.990	8.966	9.008	VV	903	17412	0.70%	0.062%
209	9.033	9.008	9.066	VV	1562	27618	1.11%	0.099%
210	9.084	9.066	9.102	VV	600	8957	0.36%	0.032%
211	9.124	9.102	9.202	VV	939	32665	1.32%	0.117%
212	9.228	9.202	9.296	VV	821	31812	1.28%	0.114%
213	9.323	9.296	9.390	VV	3015	54373	2.19%	0.195%
214	9.405	9.390	9.427	VV	400	6603	0.27%	0.024%
215	9.441	9.427	9.457	VV	235	3187	0.13%	0.011%
216	9.462	9.457	9.497	VV	195	3748	0.15%	0.013%
217	9.512	9.497	9.541	VV	265	3997	0.16%	0.014%
218	9.561	9.541	9.589	VV	152	1931	0.08%	0.007%
219	9.624	9.589	9.637	PV	247	3957	0.16%	0.014%
220	9.656	9.637	9.681	VV	287	4561	0.18%	0.016%
221	9.719	9.681	9.772	VV	1113	39724	1.60%	0.142%
222	9.785	9.772	9.814	VV	645	11460	0.46%	0.041%
223	9.830	9.814	9.847	VV	593	8603	0.35%	0.031%
224	9.856	9.847	9.872	VV	418	5103	0.21%	0.018%
225	9.880	9.872	9.912	VV	391	5141	0.21%	0.018%
226	9.937	9.912	9.954	VV	1226	13751	0.55%	0.049%
227	9.980	9.954	10.089	VV	81301	1741787	70.14%	6.247%
228	10.104	10.089	10.204	VV	5773	222530	8.96%	0.798%
229	10.212	10.204	10.367	VV	1779	91824	3.70%	0.329%
230	10.375	10.367	10.417	VV	464	9836	0.40%	0.035%
231	10.449	10.417	10.567	VV	20994	384782	15.49%	1.380%
232	10.587	10.567	10.612	VV	996	18234	0.73%	0.065%
233	10.626	10.612	10.657	VV	576	12926	0.52%	0.046%
234	10.664	10.657	10.692	VV	464	7160	0.29%	0.026%
235	10.744	10.692	10.796	VV	607	27858	1.12%	0.100%
236	10.849	10.796	10.901	VV	1107	34907	1.41%	0.125%
237	10.919	10.901	10.937	VV	609	10686	0.43%	0.038%
238	10.953	10.937	11.036	VV	566	20190	0.81%	0.072%
239	11.070	11.036	11.102	VV	1246	20590	0.83%	0.074%
240	11.133	11.102	11.204	VV	4509	136148	5.48%	0.488%
241	11.233	11.204	11.411	VV	1368	79352	3.20%	0.285%
242	11.440	11.411	11.459	VV	105	2805	0.11%	0.010%
243	11.497	11.459	11.517	VV	546	10397	0.42%	0.037%
244	11.554	11.517	11.586	VV	812	19139	0.77%	0.069%
245	11.595	11.586	11.606	VV	205	1885	0.08%	0.007%
246	11.634	11.606	11.691	VV	1032	21878	0.88%	0.078%

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247	11.714	11.691	11.731	VV	747	11788	0.47%	0.042%
248	11.748	11.731	11.781	VV	1001	16005	0.64%	0.057%
249	11.796	11.781	11.827	VV	247	4211	0.17%	0.015%
250	11.850	11.827	11.887	PV	252	6694	0.27%	0.024%
251	11.902	11.887	11.921	VV	297	4494	0.18%	0.016%
252	11.944	11.921	11.957	VV	1050	14833	0.60%	0.053%
253	11.986	11.957	12.019	VV	3075	76078	3.06%	0.273%
254	12.038	12.019	12.100	VV	2697	74530	3.00%	0.267%
255	12.121	12.100	12.151	VV	952	23110	0.93%	0.083%
256	12.160	12.151	12.175	VV	576	7386	0.30%	0.026%
257	12.195	12.175	12.213	VV	1078	16683	0.67%	0.060%
258	12.225	12.213	12.252	VV	792	12919	0.52%	0.046%
259	12.279	12.252	12.289	VV	463	7354	0.30%	0.026%
260	12.319	12.289	12.351	VV	664	15059	0.61%	0.054%
261	12.378	12.351	12.397	VV	364	6215	0.25%	0.022%
262	12.428	12.397	12.462	VV	771	18286	0.74%	0.066%
263	12.485	12.462	12.529	VV	22889	309038	12.44%	1.108%
264	12.545	12.529	12.561	VV	2467	37502	1.51%	0.134%
265	12.576	12.561	12.632	VV	2369	65452	2.64%	0.235%
266	12.647	12.632	12.661	VV	1075	15851	0.64%	0.057%
267	12.688	12.661	12.722	VV	1821	42980	1.73%	0.154%
268	12.738	12.722	12.759	VV	984	16039	0.65%	0.058%
269	12.789	12.759	12.810	VV	2746	46698	1.88%	0.167%
270	12.865	12.810	12.911	VV	2180	92877	3.74%	0.333%
271	12.945	12.911	13.029	VV	17831	397633	16.01%	1.426%
272	13.040	13.029	13.059	VV	1149	18714	0.75%	0.067%
273	13.078	13.059	13.102	VV	1761	36045	1.45%	0.129%
274	13.115	13.102	13.154	VV	1372	34373	1.38%	0.123%
275	13.171	13.154	13.182	VV	938	14949	0.60%	0.054%
276	13.190	13.182	13.204	VV	949	11028	0.44%	0.040%
277	13.246	13.204	13.272	VV	11345	229011	9.22%	0.821%
278	13.280	13.272	13.341	VV	6955	173074	6.97%	0.621%
279	13.358	13.341	13.386	VV	2385	56346	2.27%	0.202%
280	13.417	13.386	13.464	VV	2267	90875	3.66%	0.326%
281	13.483	13.464	13.517	VV	2378	64148	2.58%	0.230%
282	13.546	13.517	13.567	VV	2506	62507	2.52%	0.224%
283	13.580	13.567	13.596	VV	2128	33993	1.37%	0.122%
284	13.611	13.596	13.628	VV	2590	44742	1.80%	0.160%
285	13.641	13.628	13.654	VV	2224	32608	1.31%	0.117%
286	13.704	13.654	13.786	VV	3941	216096	8.70%	0.775%
287	13.830	13.786	13.844	VV	2757	82304	3.31%	0.295%
288	13.909	13.844	13.942	VV	4001	192839	7.76%	0.692%
289	13.973	13.942	13.987	VV	3551	87621	3.53%	0.314%
290	14.023	13.987	14.052	VV	14328	278353	11.21%	0.998%
291	14.068	14.052	14.081	VV	4257	66921	2.69%	0.240%
292	14.120	14.081	14.141	VV	4349	145436	5.86%	0.522%
293	14.185	14.141	14.239	VV	13182	342801	13.80%	1.229%
294	14.302	14.239	14.339	VV	4415	236494	9.52%	0.848%
295	14.388	14.339	14.401	VV	5022	153521	6.18%	0.551%
296	14.450	14.401	14.466	VV	7521	217175	8.74%	0.779%
297	14.480	14.466	14.530	VV	7150	237047	9.55%	0.850%
298	14.564	14.530	14.606	VV	6386	255668	10.29%	0.917%
299	14.631	14.606	14.652	VV	7472	176258	7.10%	0.632%

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300	14.702	14.652	14.714	VV	7111	246677	9.93%	0.885%
301	14.736	14.714	14.781	VV	7763	281993	11.35%	1.011%
302	14.792	14.781	14.811	VV	6744	117653	4.74%	0.422%
303	14.839	14.811	14.857	VV	7498	195547	7.87%	0.701%
304	14.875	14.857	14.897	VV	8167	183576	7.39%	0.658%
305	14.912	14.897	14.939	VV	8459	188706	7.60%	0.677%
306	14.973	14.939	15.052	VV	157148	2483459	100.00%	8.907%
307	15.063	15.052	15.110	VV	7639	243207	9.79%	0.872%
308	15.138	15.110	15.161	VV	12040	290456	11.70%	1.042%
309	15.171	15.161	15.181	VV	10255	119638	4.82%	0.429%
310	15.190	15.181	15.212	VV	10256	188352	7.58%	0.676%
311	15.220	15.212	15.274	VV	9732	305880	12.32%	1.097%
312	15.291	15.274	15.351	VV	8049	328752	13.24%	1.179%
313	15.369	15.351	15.409	VV	7052	227615	9.17%	0.816%
314	15.431	15.409	15.449	VV	6534	152557	6.14%	0.547%
315	15.458	15.449	15.507	VV	6155	205494	8.27%	0.737%
316	15.516	15.507	15.532	VV	5885	85538	3.44%	0.307%
317	15.564	15.532	15.668	VV	38370	1150039	46.31%	4.125%
318	15.694	15.668	15.732	VV	6928	225814	9.09%	0.810%
319	15.762	15.732	15.802	VV	9173	257107	10.35%	0.922%
320	15.826	15.802	15.854	VV	5123	144825	5.83%	0.519%
321	15.866	15.854	15.942	VV	4521	220293	8.87%	0.790%
322	15.976	15.942	15.985	VV	4252	103862	4.18%	0.373%
323	15.995	15.985	16.066	VV	4288	177645	7.15%	0.637%
324	16.085	16.066	16.142	VV	4164	154888	6.24%	0.556%
325	16.165	16.142	16.181	VV	3133	67258	2.71%	0.241%
326	16.199	16.181	16.237	VV	3235	88811	3.58%	0.319%
327	16.265	16.237	16.316	VV	2741	97530	3.93%	0.350%
328	16.336	16.316	16.360	VV	1806	44624	1.80%	0.160%
329	16.393	16.360	16.467	VV	1958	99485	4.01%	0.357%
330	16.485	16.467	16.517	VV	1329	35112	1.41%	0.126%
331	16.536	16.517	16.547	VV	1365	22078	0.89%	0.079%
332	16.585	16.547	16.634	VV	13064	305804	12.31%	1.097%
333	16.646	16.634	16.672	VV	2630	49787	2.00%	0.179%
334	16.683	16.672	16.705	VV	2252	32447	1.31%	0.116%
335	16.755	16.705	16.831	VV	4236	170789	6.88%	0.613%
336	16.873	16.831	16.942	VV	1340	50524	2.03%	0.181%
337	16.969	16.942	17.017	VV	730	19069	0.77%	0.068%
338	17.055	17.017	17.096	VV	2765	73499	2.96%	0.264%
339	17.120	17.096	17.178	VV	3547	115158	4.64%	0.413%
340	17.227	17.178	17.302	VV	3708	126011	5.07%	0.452%
341	17.311	17.302	17.329	VV	330	3653	0.15%	0.013%
342	17.384	17.329	17.449	VV	634	22451	0.90%	0.081%
343	17.481	17.449	17.497	PV	637	10828	0.44%	0.039%
344	17.533	17.497	17.576	VV	4718	113232	4.56%	0.406%
345	17.601	17.576	17.647	VV	5142	84355	3.40%	0.303%
346	17.680	17.647	17.744	VV	1023	31704	1.28%	0.114%
347	17.811	17.744	17.849	VV	751	22596	0.91%	0.081%
348	17.870	17.849	17.901	VV	788	11691	0.47%	0.042%
349	17.929	17.901	17.939	PV	136	3095	0.12%	0.011%
350	17.999	17.939	18.024	VV	1892	51236	2.06%	0.184%
351	18.040	18.024	18.069	VV	1870	25998	1.05%	0.093%

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352	18.132	18.069	18.154	PV	2551	68881	2.77%	0.247%
353	18.167	18.154	18.186	VV	1324	21197	0.85%	0.076%
354	18.208	18.186	18.231	VV	2099	34610	1.39%	0.124%
355	18.259	18.231	18.297	VV	3868	73315	2.95%	0.263%
356	18.317	18.297	18.325	PV	233	2608	0.11%	0.009%
357	18.359	18.325	18.381	VV	4529	70397	2.83%	0.252%
358	18.412	18.381	18.444	VV	18189	380102	15.31%	1.363%
359	18.463	18.444	18.501	VV	8988	174757	7.04%	0.627%
360	18.526	18.501	18.541	VV	2133	42187	1.70%	0.151%
361	18.560	18.541	18.627	VV	3429	75309	3.03%	0.270%
362	18.694	18.627	18.734	VV	557	14773	0.59%	0.053%
363	18.761	18.734	18.806	PV	1162	26904	1.08%	0.096%
364	18.868	18.806	18.918	VV	3882	127195	5.12%	0.456%
365	18.945	18.918	18.966	VV	6759	99079	3.99%	0.355%
366	18.998	18.966	19.092	VV	3441	121293	4.88%	0.435%
367	19.098	19.092	19.104	VV	191	986	0.04%	0.004%
368	19.145	19.104	19.176	PV	8667	125310	5.05%	0.449%
369	19.235	19.176	19.259	VV	25910	557834	22.46%	2.001%
370	19.276	19.259	19.332	VV	18910	490070	19.73%	1.758%
371	19.348	19.332	19.381	VV	2745	65865	2.65%	0.236%
372	19.413	19.381	19.429	VV	2796	64578	2.60%	0.232%
373	19.437	19.429	19.450	VV	2043	24472	0.99%	0.088%
374	19.471	19.450	19.490	VV	3935	64438	2.59%	0.231%
375	19.515	19.490	19.547	VV	2648	64868	2.61%	0.233%
376	19.567	19.547	19.606	VV	2780	48545	1.95%	0.174%
377	19.678	19.606	19.700	VV	2106	56247	2.26%	0.202%
378	19.726	19.700	19.742	VV	2479	43402	1.75%	0.156%
379	19.764	19.742	19.802	VV	2825	66006	2.66%	0.237%
380	19.836	19.802	19.874	VV	2370	52062	2.10%	0.187%
381	19.887	19.874	19.895	VV	398	4126	0.17%	0.015%
382	19.938	19.895	19.974	VV	1685	50697	2.04%	0.182%
383	20.002	19.974	20.049	VV	7648	189523	7.63%	0.680%
384	20.062	20.049	20.101	VV	2783	67683	2.73%	0.243%
385	20.130	20.101	20.152	VV	1935	52338	2.11%	0.188%
386	20.239	20.152	20.252	VV	3459	137808	5.55%	0.494%
387	20.280	20.252	20.314	VV	6699	166397	6.70%	0.597%
388	20.406	20.314	20.437	VV	5076	334578	13.47%	1.200%
389	20.559	20.437	20.598	VV	17326	677012	27.26%	2.428%
390	20.627	20.598	20.651	VV	6289	187897	7.57%	0.674%
391	20.783	20.651	20.827	VV	9494	790336	31.82%	2.835%
392	20.870	20.827	20.904	VV	7531	338442	13.63%	1.214%
393	20.937	20.904	20.981	VV	7053	314596	12.67%	1.128%
394	21.052	20.981	21.111	VV	6648	494729	19.92%	1.774%
395	21.139	21.111	21.213	VV	5793	330676	13.32%	1.186%
396	21.241	21.213	21.257	VV	4910	126444	5.09%	0.453%
397	21.366	21.257	21.411	VV	4706	422640	17.02%	1.516%
398	21.440	21.411	21.508	VV	5118	246505	9.93%	0.884%
399	21.554	21.508	21.639	VV	3313	230131	9.27%	0.825%
400	21.643	21.639	21.661	VV	2321	28519	1.15%	0.102%
401	21.705	21.661	21.718	VV	1991	70202	2.83%	0.252%
402	21.728	21.718	21.772	VV	1910	55488	2.23%	0.199%
403	21.811	21.772	21.847	VV	1535	63041	2.54%	0.226%
404	21.900	21.847	22.014	VV	1705	102560	4.13%	0.368%

rteres

405	22.051	22.014	22.071	VBA	242	22113	0.89%	0.079%

Sum of corrected areas: 27882229

FG052225.M Wed Jun 11 07:11:55 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG061025\
Data File : FG016017.D
Signal(s) : FID1A.ch
Acq On : 10 Jun 2025 18:32
Operator : YP\AJ
Sample : Q2198-03
Misc :
ALS Vial : 32 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Jun 11 05:53:44 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG052225.M
Quant Title :
QLast Update : Thu May 22 06:20:25 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal Phase : Rxi-1ms
Signal Info : 20mx0.18mmx0.18um

Instrument :
FID_G
ClientSampleId :
B-207-SB02

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 06/11/2025
Supervised By :mohammad ahmed 06/12/2025

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
9) S TETRACOSANE-d50 (SURR...	14.970	1245946	10.166 ug/mlm
Target Compounds			

(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG061025\
Data File : FG016017.D
Signal(s) : FID1A.ch
Acq On : 10 Jun 2025 18:32
Operator : YP\AJ
Sample : Q2198-03
Misc :
ALS Vial : 32 Sample Multiplier: 1

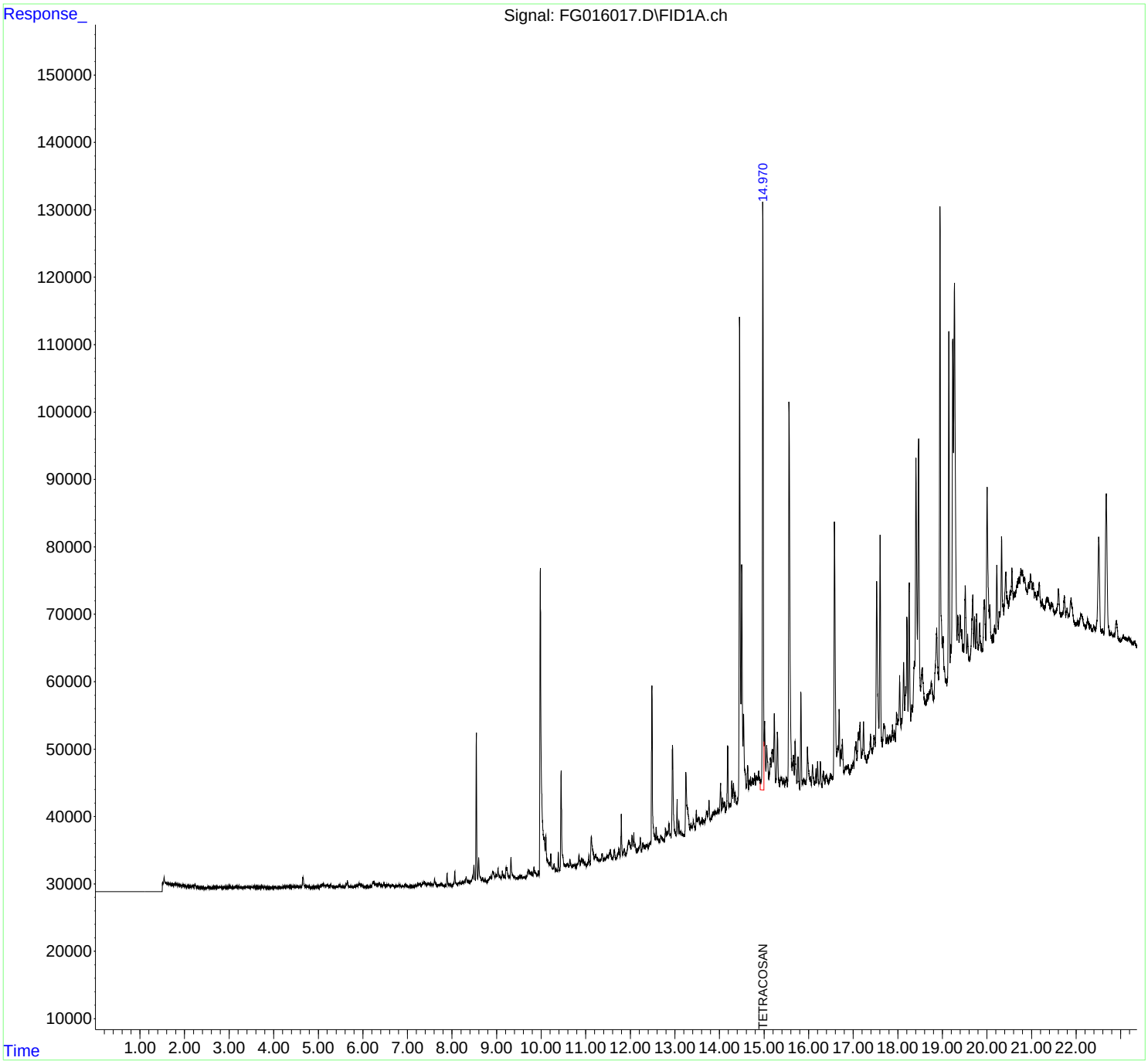
Integration File: autoint1.e
Quant Time: Jun 11 05:53:44 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG052225.M
Quant Title :
QLast Update : Thu May 22 06:20:25 2025
Response via : Initial Calibration
Integrator: ChemStation

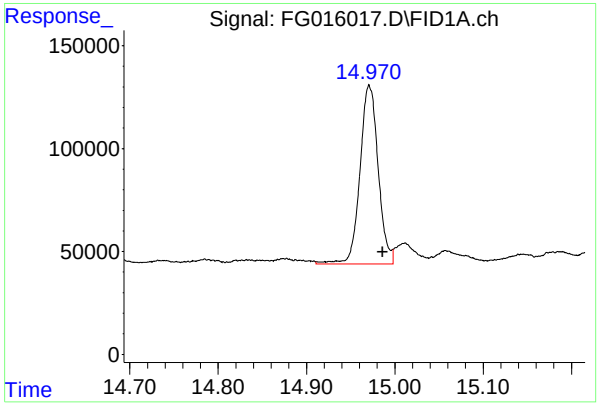
Volume Inj. : 1uL
Signal Phase : Rxi-1ms
Signal Info : 20mx0.18mmx0.18um

Instrument :
FID_G
ClientSampleId :
B-207-SB02

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 06/11/2025
Supervised By :mohammad ahmed 06/12/2025





#9 TETRACOSANE-d50 (SURROGATE)

R.T.: 14.970 min
Delta R.T.: -0.016 mir
Response: 1245946
Conc: 10.17 ug/m

Instrument :
FID_G
ClientSampleId :
B-207-SB02

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 06/11/2025
Supervised By :mohammad ahmed 06/12/2025

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Instrument :
FID_G
ClientSampleId :
B-207-SB02

rteres

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 06/11/2025
Supervised By :mohammad ahmed 06/12/2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG06102
Data File : FG016017.D
Signal(s) : FID1A.ch
Acq On : 10 Jun 2025 18:32
Sample : Q2198-03
Misc :
ALS Vial : 32 Sample Multiplier: 1

Integration File: Sample.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG052225.M
Title :

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	1.913	1.900	1.920	BV	109	550	0.03%	0.001%
2	1.925	1.920	1.945	PV	103	870	0.05%	0.002%
3	1.950	1.945	1.955	VV	128	633	0.04%	0.001%
4	1.961	1.955	1.979	VV	218	1503	0.09%	0.003%
5	1.984	1.979	2.004	VV	140	969	0.06%	0.002%
6	2.008	2.004	2.024	VV	93	701	0.04%	0.002%
7	2.028	2.024	2.055	VV	163	1145	0.07%	0.003%
8	2.058	2.055	2.063	PV	67	312	0.02%	0.001%
9	2.088	2.063	2.120	VV	167	2869	0.17%	0.007%
10	2.125	2.120	2.131	VV	147	399	0.02%	0.001%
11	2.135	2.131	2.149	VV	145	689	0.04%	0.002%
12	2.167	2.149	2.202	VV	391	6057	0.36%	0.014%
13	2.235	2.202	2.283	VV	671	12517	0.75%	0.029%
14	2.295	2.283	2.308	VV	178	1621	0.10%	0.004%
15	2.310	2.308	2.328	VV	144	950	0.06%	0.002%
16	2.355	2.328	2.378	PV	151	2449	0.15%	0.006%
17	2.389	2.378	2.405	VV	190	1728	0.10%	0.004%
18	2.418	2.405	2.432	VV	186	1823	0.11%	0.004%
19	2.436	2.432	2.454	PV	114	1026	0.06%	0.002%
20	2.459	2.454	2.465	VV	112	553	0.03%	0.001%
21	2.475	2.465	2.502	VV	156	1608	0.10%	0.004%
22	2.525	2.502	2.532	VV	222	2224	0.13%	0.005%
23	2.537	2.532	2.576	VV	219	3228	0.19%	0.007%
24	2.613	2.576	2.625	VV	143	2815	0.17%	0.007%
25	2.642	2.625	2.684	VV	245	6924	0.42%	0.016%
26	2.684	2.684	2.697	VV	250	1485	0.09%	0.003%
27	2.702	2.697	2.723	VV	253	2795	0.17%	0.006%
28	2.730	2.723	2.738	VV	207	1636	0.10%	0.004%
29	2.750	2.738	2.765	VV	253	3050	0.18%	0.007%
30	2.768	2.765	2.777	VV	187	1168	0.07%	0.003%
31	2.785	2.777	2.790	VV	222	1092	0.07%	0.003%
32	2.793	2.790	2.835	VV	181	3664	0.22%	0.008%
33	2.843	2.835	2.872	VV	189	3093	0.19%	0.007%
34	2.874	2.872	2.883	VV	169	826	0.05%	0.002%
35	2.907	2.883	2.942	VV	268	6197	0.37%	0.014%
36	2.947	2.942	2.957	VV	158	1310	0.08%	0.003%

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Instrument :
FID_G
ClientSampleId :
B-207-SB02

Manual IntegrationsAPPROVED

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rteres

37	2.965	2.957	2.971	VV	173	1158	0.07%	0.003%
38	3.007	2.971	3.043	VV	332	8271		
39	3.044	3.043	3.048	VV	128	391		
40	3.052	3.048	3.097	VV	233	4104		
41	3.102	3.097	3.109	VV	155	886		
42	3.116	3.109	3.129	VV	145	1500		
43	3.146	3.129	3.171	VV	326	5967	0.36%	0.014%
44	3.175	3.171	3.199	VV	273	3647	0.22%	0.008%
45	3.207	3.199	3.241	VV	270	5181	0.31%	0.012%
46	3.246	3.241	3.258	VV	193	1805	0.11%	0.004%
47	3.265	3.258	3.271	VV	145	1149	0.07%	0.003%
48	3.279	3.271	3.291	VV	188	1555	0.09%	0.004%
49	3.295	3.291	3.300	VV	186	825	0.05%	0.002%
50	3.307	3.300	3.322	VV	154	1819	0.11%	0.004%
51	3.329	3.322	3.378	VV	197	5280	0.32%	0.012%
52	3.385	3.378	3.389	VV	193	1048	0.06%	0.002%
53	3.399	3.389	3.406	VV	221	1838	0.11%	0.004%
54	3.411	3.406	3.416	VV	176	954	0.06%	0.002%
55	3.427	3.416	3.476	VV	224	5792	0.35%	0.013%
56	3.505	3.476	3.537	VV	238	6975	0.42%	0.016%
57	3.566	3.537	3.618	VV	300	8333	0.50%	0.019%
58	3.624	3.618	3.733	VV	178	8788	0.53%	0.020%
59	3.746	3.733	3.810	VV	182	6973	0.42%	0.016%
60	3.817	3.810	3.841	VV	218	3035	0.18%	0.007%
61	3.847	3.841	3.864	VV	173	1828	0.11%	0.004%
62	3.875	3.864	3.886	VV	150	1349	0.08%	0.003%
63	3.900	3.886	3.923	PV	158	2388	0.14%	0.006%
64	3.937	3.923	3.979	VV	156	3640	0.22%	0.008%
65	4.021	3.979	4.096	VV	232	8543	0.51%	0.020%
66	4.105	4.096	4.119	VV	162	1317	0.08%	0.003%
67	4.125	4.119	4.142	VV	97	1313	0.08%	0.003%
68	4.150	4.142	4.163	VV	109	1160	0.07%	0.003%
69	4.222	4.163	4.255	VV	283	9268	0.56%	0.021%
70	4.287	4.255	4.328	VV	303	10643	0.64%	0.025%
71	4.339	4.328	4.393	VV	234	7488	0.45%	0.017%
72	4.400	4.393	4.424	VV	199	3513	0.21%	0.008%
73	4.426	4.424	4.462	VV	255	4090	0.25%	0.009%
74	4.476	4.462	4.509	VV	297	5806	0.35%	0.013%
75	4.517	4.509	4.544	VV	250	3922	0.24%	0.009%
76	4.553	4.544	4.574	VV	190	3030	0.18%	0.007%
77	4.592	4.574	4.624	VV	237	5271	0.32%	0.012%
78	4.659	4.624	4.745	VV	1593	40114	2.41%	0.093%
79	4.755	4.745	4.869	VV	235	9673	0.58%	0.022%
80	4.895	4.869	4.934	VV	163	4529	0.27%	0.010%
81	4.953	4.934	4.961	VV	180	2114	0.13%	0.005%
82	4.981	4.961	5.006	VV	261	4098	0.25%	0.009%
83	5.095	5.006	5.119	VV	536	22133	1.33%	0.051%
84	5.127	5.119	5.167	VV	492	10753	0.65%	0.025%
85	5.208	5.167	5.257	VV	469	17447	1.05%	0.040%
86	5.274	5.257	5.313	VV	413	9368	0.56%	0.022%
87	5.332	5.313	5.361	VV	211	4468	0.27%	0.010%
88	5.369	5.361	5.384	VV	137	1535	0.09%	0.004%
89	5.413	5.384	5.437	VV	261	5525	0.33%	0.013%

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Instrument :
FID_G
ClientSampleId :
B-207-SB02

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 06/11/2025
Supervised By :mohammad ahmed 06/12/2025

A B C D E F G H I J

rteres

90	5.478	5.437	5.536	VV	414	12326	0.74%	0.029%
91	5.562	5.536	5.599	VV	175	3376		
92	5.622	5.599	5.636	VV	631	9264		
93	5.653	5.636	5.702	VV	1052	17563		
94	5.739	5.702	5.758	VV	237	4951		
95	5.781	5.758	5.801	VV	176	2804		
96	5.819	5.801	5.878	VV	309	8991	0.54%	0.021%
97	5.915	5.878	5.934	VV	653	13081	0.79%	0.030%
98	5.943	5.934	5.956	VV	440	4489	0.27%	0.010%
99	5.973	5.956	6.064	VV	546	12918	0.78%	0.030%
100	6.099	6.064	6.131	PV	256	5646	0.34%	0.013%
101	6.159	6.131	6.182	VV	231	4092	0.25%	0.009%
102	6.233	6.182	6.319	VV	827	38649	2.32%	0.089%
103	6.348	6.319	6.358	VV	544	10425	0.63%	0.024%
104	6.370	6.358	6.394	VV	608	9981	0.60%	0.023%
105	6.422	6.394	6.449	VV	460	10790	0.65%	0.025%
106	6.476	6.449	6.510	VV	622	13881	0.83%	0.032%
107	6.545	6.510	6.567	VV	293	8464	0.51%	0.020%
108	6.576	6.567	6.626	VV	410	8279	0.50%	0.019%
109	6.659	6.626	6.706	VV	423	10492	0.63%	0.024%
110	6.746	6.706	6.764	VV	225	5378	0.32%	0.012%
111	6.780	6.764	6.794	VV	220	2918	0.18%	0.007%
112	6.810	6.794	6.871	VV	383	9933	0.60%	0.023%
113	6.880	6.871	6.891	VV	118	1310	0.08%	0.003%
114	6.906	6.891	6.923	VV	136	1913	0.11%	0.004%
115	6.945	6.923	7.038	VV	328	10965	0.66%	0.025%
116	7.067	7.038	7.104	VV	241	3433	0.21%	0.008%
117	7.116	7.104	7.136	PV	142	1705	0.10%	0.004%
118	7.155	7.136	7.163	VV	144	1584	0.10%	0.004%
119	7.187	7.163	7.211	VV	234	4817	0.29%	0.011%
120	7.235	7.211	7.242	VV	384	5140	0.31%	0.012%
121	7.251	7.242	7.266	VV	397	4891	0.29%	0.011%
122	7.280	7.266	7.304	VV	485	7833	0.47%	0.018%
123	7.378	7.304	7.424	VV	757	29997	1.80%	0.069%
124	7.443	7.424	7.463	VV	420	8731	0.52%	0.020%
125	7.475	7.463	7.494	VV	392	6328	0.38%	0.015%
126	7.519	7.494	7.532	VV	342	7013	0.42%	0.016%
127	7.545	7.532	7.573	VV	357	7313	0.44%	0.017%
128	7.609	7.573	7.649	VV	1160	21468	1.29%	0.050%
129	7.655	7.649	7.704	VV	287	6620	0.40%	0.015%
130	7.719	7.704	7.737	VV	233	3664	0.22%	0.008%
131	7.783	7.737	7.812	VV	308	8958	0.54%	0.021%
132	7.825	7.812	7.847	VV	118	1179	0.07%	0.003%
133	7.890	7.847	7.927	PV	1854	25396	1.53%	0.059%
134	7.943	7.927	7.963	VV	332	4575	0.28%	0.011%
135	7.979	7.963	8.007	VV	135	2648	0.16%	0.006%
136	8.063	8.007	8.117	PV	2130	37412	2.25%	0.087%
137	8.144	8.117	8.157	VV	395	6748	0.41%	0.016%
138	8.182	8.157	8.202	VV	481	9413	0.57%	0.022%
139	8.215	8.202	8.227	VV	348	4429	0.27%	0.010%
140	8.243	8.227	8.260	VV	591	8251	0.50%	0.019%
141	8.318	8.260	8.337	VV	1158	28972	1.74%	0.067%

Instrument :
FID_G
ClientSampleId :
B-207-SB02

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 06/11/2025
Supervised By :mohammad ahmed 06/12/2025

rteres

142	8.344	8.337	8.389	VV	579	12482	0.75%	0.029%
143	8.402	8.389	8.411	VV	363	4316		
144	8.428	8.411	8.436	VV	523	6280		
145	8.461	8.436	8.476	VV	1108	19294		
146	8.493	8.476	8.521	VV	2776	40565		
147	8.547	8.521	8.577	VV	22283	244970		
148	8.600	8.577	8.666	VV	3795	74412	4.47%	0.172%
149	8.688	8.666	8.717	VV	827	14034	0.84%	0.032%
150	8.741	8.717	8.761	VV	454	8249	0.50%	0.019%
151	8.772	8.761	8.795	VV	224	2769	0.17%	0.006%
152	8.848	8.795	8.862	VV	750	17063	1.03%	0.039%
153	8.877	8.862	8.894	VV	802	12730	0.77%	0.029%
154	8.917	8.894	8.962	VV	1475	45228	2.72%	0.105%
155	8.986	8.962	9.017	VV	952	27571	1.66%	0.064%
156	9.033	9.017	9.072	VV	1911	35227	2.12%	0.082%
157	9.081	9.072	9.101	VV	686	9378	0.56%	0.022%
158	9.130	9.101	9.194	VV	1476	39939	2.40%	0.092%
159	9.214	9.194	9.225	VV	1955	24235	1.46%	0.056%
160	9.236	9.225	9.272	VV	1870	30196	1.82%	0.070%
161	9.286	9.272	9.300	VV	557	7900	0.47%	0.018%
162	9.324	9.300	9.356	VV	3279	51100	3.07%	0.118%
163	9.365	9.356	9.391	VV	673	10619	0.64%	0.025%
164	9.409	9.391	9.429	VV	554	7501	0.45%	0.017%
165	9.446	9.429	9.466	VV	195	2550	0.15%	0.006%
166	9.479	9.466	9.493	VV	204	2334	0.14%	0.005%
167	9.518	9.493	9.546	VV	452	8524	0.51%	0.020%
168	9.561	9.546	9.589	VV	453	6651	0.40%	0.015%
169	9.622	9.589	9.639	VV	220	4292	0.26%	0.010%
170	9.661	9.639	9.669	PV	284	2965	0.18%	0.007%
171	9.712	9.669	9.757	VV	1173	37278	2.24%	0.086%
172	9.782	9.757	9.811	VV	740	15853	0.95%	0.037%
173	9.839	9.811	9.872	VV	1331	25403	1.53%	0.059%
174	9.881	9.872	9.912	VV	638	6531	0.39%	0.015%
175	9.936	9.912	9.956	VV	715	8998	0.54%	0.021%
176	9.981	9.956	10.059	VV	45448	937490	56.36%	2.170%
177	10.070	10.059	10.088	VV	5498	86159	5.18%	0.199%
178	10.105	10.088	10.198	VV	5765	169829	10.21%	0.393%
179	10.218	10.198	10.256	VV	2898	52896	3.18%	0.122%
180	10.291	10.256	10.332	VV	1343	33708	2.03%	0.078%
181	10.344	10.332	10.366	VV	336	5393	0.32%	0.012%
182	10.387	10.366	10.416	VV	2885	34979	2.10%	0.081%
183	10.449	10.416	10.519	VV	14901	246599	14.82%	0.571%
184	10.533	10.519	10.559	VV	869	18275	1.10%	0.042%
185	10.595	10.559	10.619	VV	924	28285	1.70%	0.065%
186	10.646	10.619	10.684	VV	1474	33231	2.00%	0.077%
187	10.706	10.684	10.717	VV	559	9698	0.58%	0.022%
188	10.736	10.717	10.794	VV	662	20880	1.26%	0.048%
189	10.848	10.794	10.877	VV	1917	46314	2.78%	0.107%
190	10.915	10.877	10.942	VV	1203	36873	2.22%	0.085%
191	10.962	10.942	11.021	VV	766	23474	1.41%	0.054%
192	11.071	11.021	11.097	PV	1623	28806	1.73%	0.067%
193	11.126	11.097	11.193	VV	4181	122325	7.35%	0.283%
194	11.219	11.193	11.263	VV	1452	43971	2.64%	0.102%

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Instrument :
FID_G
ClientSampleId :
B-207-SB02

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 06/11/2025
Supervised By :mohammad ahmed 06/12/2025

A B C D E F G H I J

					rteres			
195	11.271	11.263	11.314	VV	652	15929	0.96%	0.037%
196	11.369	11.314	11.397	VV	1342	32163		
197	11.421	11.397	11.444	VV	567	10632		
198	11.484	11.444	11.507	VV	861	23169		
199	11.553	11.507	11.589	VV	1603	42273		
200	11.602	11.589	11.614	VV	247	2667		
201	11.639	11.614	11.672	VV	1289	24575	1.48%	0.057%
202	11.748	11.672	11.770	VV	1360	31513	1.89%	0.073%
203	11.798	11.770	11.831	VV	6314	81761	4.92%	0.189%
204	11.866	11.831	11.887	VV	1097	22771	1.37%	0.053%
205	11.899	11.887	11.909	VV	306	2876	0.17%	0.007%
206	11.960	11.909	11.972	VV	2315	46684	2.81%	0.108%
207	11.986	11.972	12.011	VV	1836	33120	1.99%	0.077%
208	12.038	12.011	12.059	VV	2829	51459	3.09%	0.119%
209	12.078	12.059	12.146	VV	3121	66725	4.01%	0.154%
210	12.165	12.146	12.176	VV	629	7571	0.46%	0.018%
211	12.225	12.176	12.250	VV	2121	41343	2.49%	0.096%
212	12.280	12.250	12.311	PV	1185	23563	1.42%	0.055%
213	12.323	12.311	12.341	VV	764	9375	0.56%	0.022%
214	12.383	12.341	12.402	VV	726	20187	1.21%	0.047%
215	12.441	12.402	12.454	VV	852	19210	1.15%	0.044%
216	12.484	12.454	12.559	VV	24038	374024	22.49%	0.866%
217	12.577	12.559	12.598	VV	2866	44001	2.65%	0.102%
218	12.607	12.598	12.659	VV	1299	33981	2.04%	0.079%
219	12.686	12.659	12.739	VV	1375	43825	2.63%	0.101%
220	12.746	12.739	12.762	VV	608	6330	0.38%	0.015%
221	12.791	12.762	12.812	VV	2039	37747	2.27%	0.087%
222	12.827	12.812	12.847	VV	1597	29981	1.80%	0.069%
223	12.867	12.847	12.912	VV	2746	59569	3.58%	0.138%
224	12.945	12.912	13.024	VV	14151	286402	17.22%	0.663%
225	13.048	13.024	13.069	VV	5723	72957	4.39%	0.169%
226	13.089	13.069	13.111	VV	2551	37476	2.25%	0.087%
227	13.121	13.111	13.201	VV	978	30268	1.82%	0.070%
228	13.244	13.201	13.332	VV	9233	266210	16.00%	0.616%
229	13.356	13.332	13.377	VV	1561	30381	1.83%	0.070%
230	13.412	13.377	13.456	VV	1841	55775	3.35%	0.129%
231	13.480	13.456	13.496	VV	3266	44666	2.69%	0.103%
232	13.511	13.496	13.524	VV	1851	30398	1.83%	0.070%
233	13.540	13.524	13.564	VV	2136	39922	2.40%	0.092%
234	13.582	13.564	13.594	VV	1353	21246	1.28%	0.049%
235	13.608	13.594	13.626	VV	1827	26332	1.58%	0.061%
236	13.640	13.626	13.670	VV	1417	31694	1.91%	0.073%
237	13.718	13.670	13.739	VV	2592	79758	4.79%	0.185%
238	13.764	13.739	13.795	VV	4029	77423	4.65%	0.179%
239	13.865	13.795	13.878	VV	2126	77260	4.64%	0.179%
240	13.911	13.878	13.937	VV	1961	65530	3.94%	0.152%
241	13.963	13.937	13.984	VV	2488	54936	3.30%	0.127%
242	14.023	13.984	14.046	VV	5713	124774	7.50%	0.289%
243	14.069	14.046	14.086	VV	3677	66277	3.98%	0.153%
244	14.112	14.086	14.139	VV	2998	78214	4.70%	0.181%
245	14.183	14.139	14.214	VV	10945	207722	12.49%	0.481%
246	14.225	14.214	14.234	VV	2285	27364	1.65%	0.063%

Instrument :
FID_G
ClientSampleId :
B-207-SB02

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 06/11/2025
Supervised By :mohammad ahmed 06/12/2025

rteres

247	14.242	14.234	14.252	VV	2176	23953	1.44%	0.055%
248	14.275	14.252	14.294	VV	5718	97178	5	
249	14.313	14.294	14.332	VV	5175	88813	5	
250	14.351	14.332	14.397	VV	3730	108772	6	
251	14.450	14.397	14.479	VV	73052	1153742	69	
252	14.498	14.479	14.524	VV	37093	633244	38	
253	14.539	14.524	14.601	VV	14926	385653	23.18%	0.893%
254	14.632	14.601	14.659	VV	7215	177715	10.68%	0.411%
255	14.671	14.659	14.684	VV	4688	67825	4.08%	0.157%
256	14.693	14.684	14.711	VV	5348	74549	4.48%	0.173%
257	14.737	14.711	14.758	VV	5025	128396	7.72%	0.297%
258	14.785	14.758	14.809	VV	5558	144544	8.69%	0.335%
259	14.834	14.809	14.859	VV	4903	141198	8.49%	0.327%
260	14.875	14.859	14.917	VV	5323	166142	9.99%	0.385%
261	14.971	14.917	14.997	VV	89613	1374524	82.63%	3.182%
262	15.011	14.997	15.038	VV	12740	233809	14.06%	0.541%
263	15.058	15.038	15.106	VV	9070	261872	15.74%	0.606%
264	15.145	15.106	15.161	VV	7071	190428	11.45%	0.441%
265	15.187	15.161	15.207	VV	8253	205817	12.37%	0.476%
266	15.230	15.207	15.268	VV	13461	272379	16.37%	0.630%
267	15.298	15.268	15.349	VV	10532	264435	15.90%	0.612%
268	15.387	15.349	15.418	VV	3564	134433	8.08%	0.311%
269	15.439	15.418	15.462	VV	3421	75578	4.54%	0.175%
270	15.506	15.462	15.522	VV	3321	101365	6.09%	0.235%
271	15.560	15.522	15.629	VV	58313	1251361	75.23%	2.896%
272	15.653	15.629	15.676	VV	5837	140067	8.42%	0.324%
273	15.696	15.676	15.736	VV	8320	178881	10.75%	0.414%
274	15.761	15.736	15.801	VV	5844	118494	7.12%	0.274%
275	15.825	15.801	15.872	VV	15249	244496	14.70%	0.566%
276	15.887	15.872	15.938	VV	2279	72215	4.34%	0.167%
277	15.974	15.938	16.034	VV	6523	184534	11.09%	0.427%
278	16.044	16.034	16.062	VV	2144	27253	1.64%	0.063%
279	16.086	16.062	16.132	VV	3877	86516	5.20%	0.200%
280	16.164	16.132	16.180	VV	2976	53329	3.21%	0.123%
281	16.199	16.180	16.241	VV	4112	70122	4.22%	0.162%
282	16.263	16.241	16.301	VV	3845	61378	3.69%	0.142%
283	16.331	16.301	16.367	PV	2282	49791	2.99%	0.115%
284	16.395	16.367	16.452	VV	1659	43709	2.63%	0.101%
285	16.488	16.452	16.542	VV	1513	45045	2.71%	0.104%
286	16.578	16.542	16.627	VV	38379	733285	44.08%	1.697%
287	16.684	16.627	16.707	VV	10204	259053	15.57%	0.600%
288	16.721	16.707	16.737	VV	3981	62687	3.77%	0.145%
289	16.756	16.737	16.796	VV	5638	107771	6.48%	0.249%
290	16.846	16.796	16.865	VV	1569	50202	3.02%	0.116%
291	16.885	16.865	16.924	VV	1463	33539	2.02%	0.078%
292	17.001	16.924	17.017	PV	1562	49441	2.97%	0.114%
293	17.063	17.017	17.087	VV	4259	118131	7.10%	0.273%
294	17.114	17.087	17.132	VV	5311	110285	6.63%	0.255%
295	17.151	17.132	17.182	VV	6721	129485	7.78%	0.300%
296	17.230	17.182	17.306	VV	6550	158691	9.54%	0.367%
297	17.326	17.306	17.334	VV	1274	12594	0.76%	0.029%
298	17.386	17.334	17.428	VV	3789	100961	6.07%	0.234%
299	17.464	17.428	17.491	VV	3324	89605	5.39%	0.207%

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Instrument :
FID_G
ClientSampleId :
B-207-SB02

rteres

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 06/11/2025
Supervised By :mohammad ahmed 06/12/2025

300	17.526	17.491	17.577	VV	25854	587900	35.34%	1.361%
301	17.602	17.577	17.654	VV	32480	519367	31	
302	17.686	17.654	17.740	VV	4140	144699	8	
303	17.763	17.740	17.787	VV	2145	42661	2	
304	17.820	17.787	17.846	VV	2012	50007	3	
305	17.881	17.846	17.906	VV	2895	65258	3	
306	17.920	17.906	17.947	VV	1936	36950	2.22%	0.086%
307	17.972	17.947	17.998	VV	4513	95910	5.77%	0.222%
308	18.042	17.998	18.072	VV	9826	214391	12.89%	0.496%
309	18.083	18.072	18.094	VV	3198	36719	2.21%	0.085%
310	18.130	18.094	18.157	VV	11147	250033	15.03%	0.579%
311	18.176	18.157	18.186	VV	7558	108985	6.55%	0.252%
312	18.205	18.186	18.231	VV	17429	286271	17.21%	0.663%
313	18.254	18.231	18.292	VV	22584	391726	23.55%	0.907%
314	18.314	18.292	18.327	VV	3919	71947	4.33%	0.167%
315	18.407	18.327	18.438	VV	39373	1067813	64.19%	2.472%
316	18.466	18.438	18.514	VV	43015	910699	54.75%	2.108%
317	18.549	18.514	18.638	VV	8796	410448	24.68%	0.950%
318	18.654	18.638	18.691	VV	4396	125231	7.53%	0.290%
319	18.746	18.691	18.802	VV	5817	295821	17.78%	0.685%
320	18.871	18.802	18.917	VV	13230	529330	31.82%	1.225%
321	18.946	18.917	19.001	VV	75065	1365525	82.09%	3.161%
322	19.013	19.001	19.101	VV	11446	401964	24.17%	0.930%
323	19.145	19.101	19.173	VV	56175	919045	55.25%	2.127%
324	19.190	19.173	19.199	VV	9287	129483	7.78%	0.300%
325	19.233	19.199	19.249	VV	53929	980531	58.95%	2.270%
326	19.270	19.249	19.328	VV	62632	1663405	100.00%	3.850%
327	19.348	19.328	19.377	VV	13071	333376	20.04%	0.772%
328	19.399	19.377	19.427	VV	12445	330788	19.89%	0.766%
329	19.435	19.427	19.484	VV	10245	284366	17.10%	0.658%
330	19.514	19.484	19.546	VV	16830	426589	25.65%	0.987%
331	19.567	19.546	19.608	VV	9343	260429	15.66%	0.603%
332	19.680	19.608	19.703	VV	14729	510947	30.72%	1.183%
333	19.723	19.703	19.749	VV	11265	241412	14.51%	0.559%
334	19.769	19.749	19.804	VV	11385	271458	16.32%	0.628%
335	19.837	19.804	19.868	VV	9734	294208	17.69%	0.681%
336	19.877	19.868	19.897	VV	6616	102201	6.14%	0.237%
337	19.940	19.897	19.972	VV	12763	419952	25.25%	0.972%
338	20.004	19.972	20.052	VV	29297	783010	47.07%	1.812%
339	20.065	20.052	20.116	VV	11524	317843	19.11%	0.736%
340	20.128	20.116	20.147	VV	6887	118504	7.12%	0.274%
341	20.170	20.147	20.191	VV	7884	184870	11.11%	0.428%
342	20.221	20.191	20.253	VV	16470	399431	24.01%	0.925%
343	20.285	20.253	20.294	VV	9479	213581	12.84%	0.494%
344	20.329	20.294	20.378	VV	20410	624114	37.52%	1.445%
345	20.422	20.378	20.481	VV	14382	703803	42.31%	1.629%
346	20.520	20.481	20.537	VV	11725	357963	21.52%	0.829%
347	20.560	20.537	20.587	VV	14854	376560	22.64%	0.872%
348	20.609	20.587	20.622	VV	10857	222645	13.38%	0.515%
349	20.625	20.622	20.640	VV	10994	112194	6.74%	0.260%
350	20.722	20.640	20.741	VV	12833	716340	43.06%	1.658%
351	20.759	20.741	20.779	VV	13869	302560	18.19%	0.700%

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Instrument :
FID_G
ClientSampleId :
B-207-SB02

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 06/11/2025
Supervised By :mohammad ahmed 06/12/2025

A B C D E F G H I J

rteres

352	20.788	20.779	20.829	VV	13411	377485	22.69%	0.874%
353	20.842	20.829	20.906	VV	11863	505600	30	
354	20.934	20.906	20.959	VV	10894	332351	19	
355	20.978	20.959	21.016	VV	11840	371771	22	
356	21.037	21.016	21.061	VV	10443	266429	16	
357	21.069	21.061	21.109	VV	8783	247342	14	
358	21.133	21.109	21.152	VV	8896	217555	13.08%	0.504%
359	21.173	21.152	21.226	VV	10069	358089	21.53%	0.829%
360	21.244	21.226	21.277	VV	7298	197394	11.87%	0.457%
361	21.282	21.277	21.296	VV	5885	63792	3.83%	0.148%
362	21.346	21.296	21.361	VV	7016	249902	15.02%	0.578%
363	21.372	21.361	21.424	VV	6838	227755	13.69%	0.527%
364	21.445	21.424	21.457	VV	5949	106451	6.40%	0.246%
365	21.470	21.457	21.521	VV	5557	179435	10.79%	0.415%
366	21.601	21.521	21.659	VV	7160	380728	22.89%	0.881%
367	21.735	21.659	21.767	VV	5516	238760	14.35%	0.553%
368	21.796	21.767	21.819	VV	3420	90144	5.42%	0.209%
369	21.835	21.819	21.847	VV	2459	37674	2.26%	0.087%
370	21.885	21.847	21.964	VV	4552	188670	11.34%	0.437%
371	21.972	21.964	22.007	VV	546	8820	0.53%	0.020%

Sum of corrected areas: 43202790

FG052225.M Wed Jun 11 07:12:25 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG061025\
Data File : FG016011.D
Signal(s) : FID1A.ch
Acq On : 10 Jun 2025 15:36
Operator : YP\AJ
Sample : PB168382BL
Misc :
ALS Vial : 26 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
PB168382BL

Integration File: autoint1.e
Quant Time: Jun 11 01:59:16 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG052225.M
Quant Title :
QLast Update : Thu May 22 06:20:25 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal Phase : Rxi-1ms
Signal Info : 20mx0.18mmx0.18um

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
9) S TETRACOSANE-d50 (SURR...	14.974	1723832	14.065 ug/ml
Target Compounds			

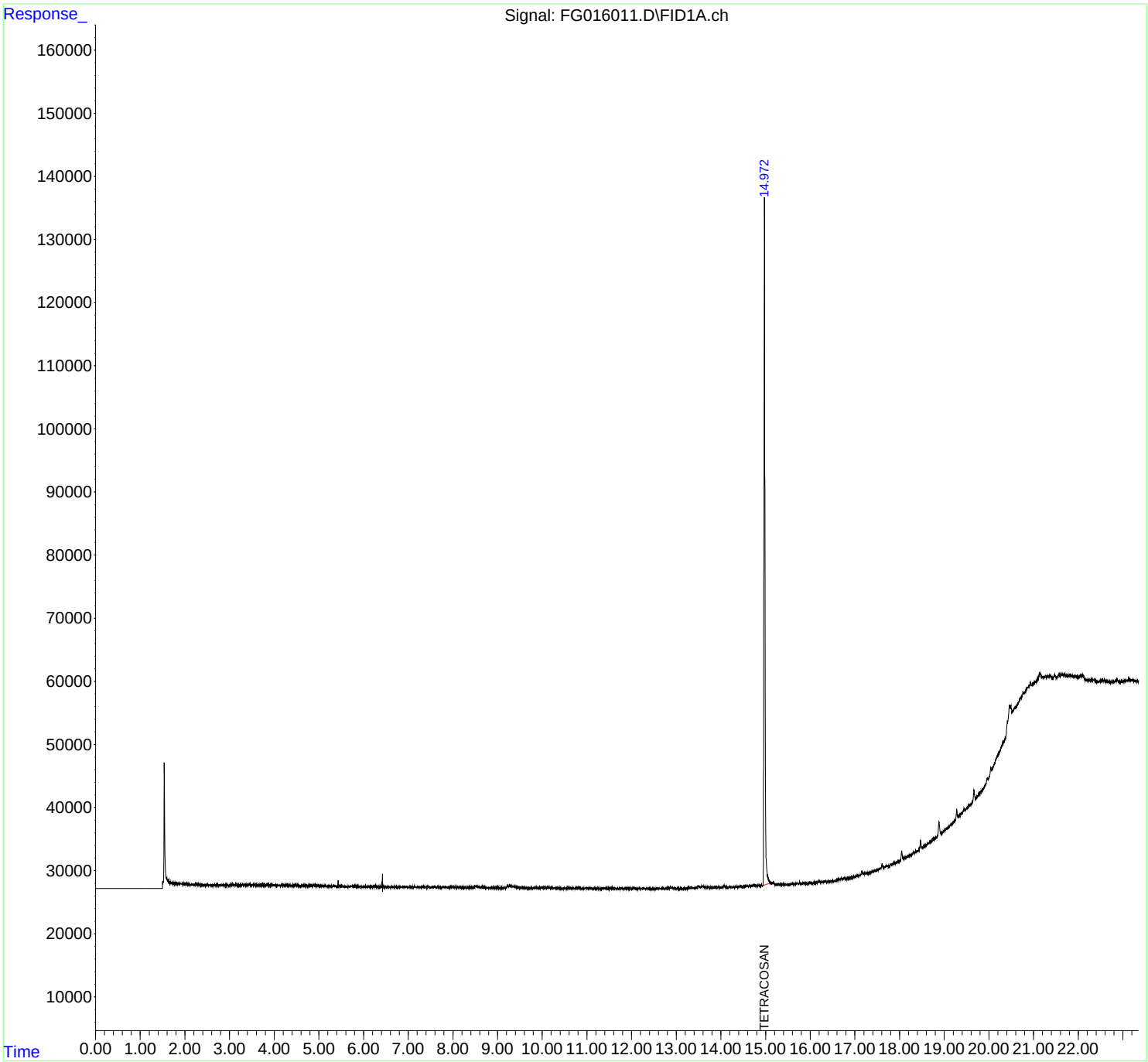
(f)=RT Delta > 1/2 Window (m)=manual int.

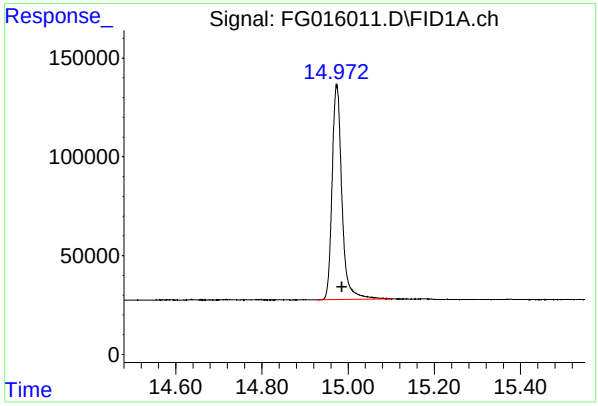
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG061025\
Data File : FG016011.D
Signal(s) : FID1A.ch
Acq On : 10 Jun 2025 15:36
Operator : YP\AJ
Sample : PB168382BL
Misc :
ALS Vial : 26 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
PB168382BL

Integration File: autoint1.e
Quant Time: Jun 11 01:59:16 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG052225.M
Quant Title :
QLast Update : Thu May 22 06:20:25 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal Phase : Rxi-1ms
Signal Info : 20mx0.18mmx0.18um





#9 TETRACOSANE-d50 (SURROGATE)

R.T.: 14.974 min
Delta R.T.: -0.013 mi
Response: 1723832
Conc: 14.07 ug/m

Instrument :
FID_G
ClientSampleId :
PB168382BL

13

A B C D E F G H I J

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG061025\
Data File : FG016011.D
Signal(s) : FID1A.ch
Acq On : 10 Jun 2025 15:36
Sample : PB168382BL
Misc :
ALS Vial : 26 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG052225.M
Title :

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	14.974	14.926	15.104	BB	107968	1723832	100.00%	100.000%
			Sum of corrected areas:			1723832		

FG052225.M Wed Jun 11 02:01:29 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG061025\
Data File : FG016012.D
Signal(s) : FID1A.ch
Acq On : 10 Jun 2025 16:05
Operator : YP\AJ
Sample : PB168382BS
Misc :
ALS Vial : 27 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
PB168382BS

Integration File: autoint1.e
Quant Time: Jun 11 01:59:30 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG052225.M
Quant Title :
QLast Update : Thu May 22 06:20:25 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal Phase : Rxi-1ms
Signal Info : 20mx0.18mmx0.18um

	Compound	R.T.	Response	Conc Units
System Monitoring Compounds				
9) S	TETRACOSANE-d50 (SURR...	14.973	1847586	15.075 ug/ml
Target Compounds				
1)	N-OCTANE	1.951	2675876	22.757 ug/ml
2)	N-DECANE	4.475	2859899	24.340 ug/ml
3)	N-DODECANE	6.657	3052486	25.150 ug/ml
4)	N-TETRADECANE	8.493	3062343	23.983 ug/ml
5)	N-HEXADECANE	10.107	3193116	23.967 ug/ml
6)	N-OCTADECANE	11.555	3316977	24.035 ug/ml
7)	N-EICOSANE	12.870	3254030	23.033 ug/ml
8)	N-DOCOSANE	14.071	3193099	23.245 ug/ml
10)	N-TETRACOSANE	15.177	3148048	22.900 ug/ml
11)	N-HEXACOSANE	16.201	3070175	22.597 ug/ml
12)	N-OCTACOSANE	17.154	3017115	22.378 ug/ml
13)	N-TRIACONTANE	18.044	2922700	21.420 ug/ml
14)	N-DOTRIACONTANE	18.878	2518080	18.801 ug/ml
15)	N-TETRATRIACONTANE	19.662	1676929	13.829 ug/ml
16)	N-HEXATRIACONTANE	20.404	1208496	11.317 ug/ml
17)	N-OCTATRIACONTANE	21.139	1124171	11.714 ug/ml
18)	N-TETRACONTANE	22.049	1126040	12.803 ug/ml

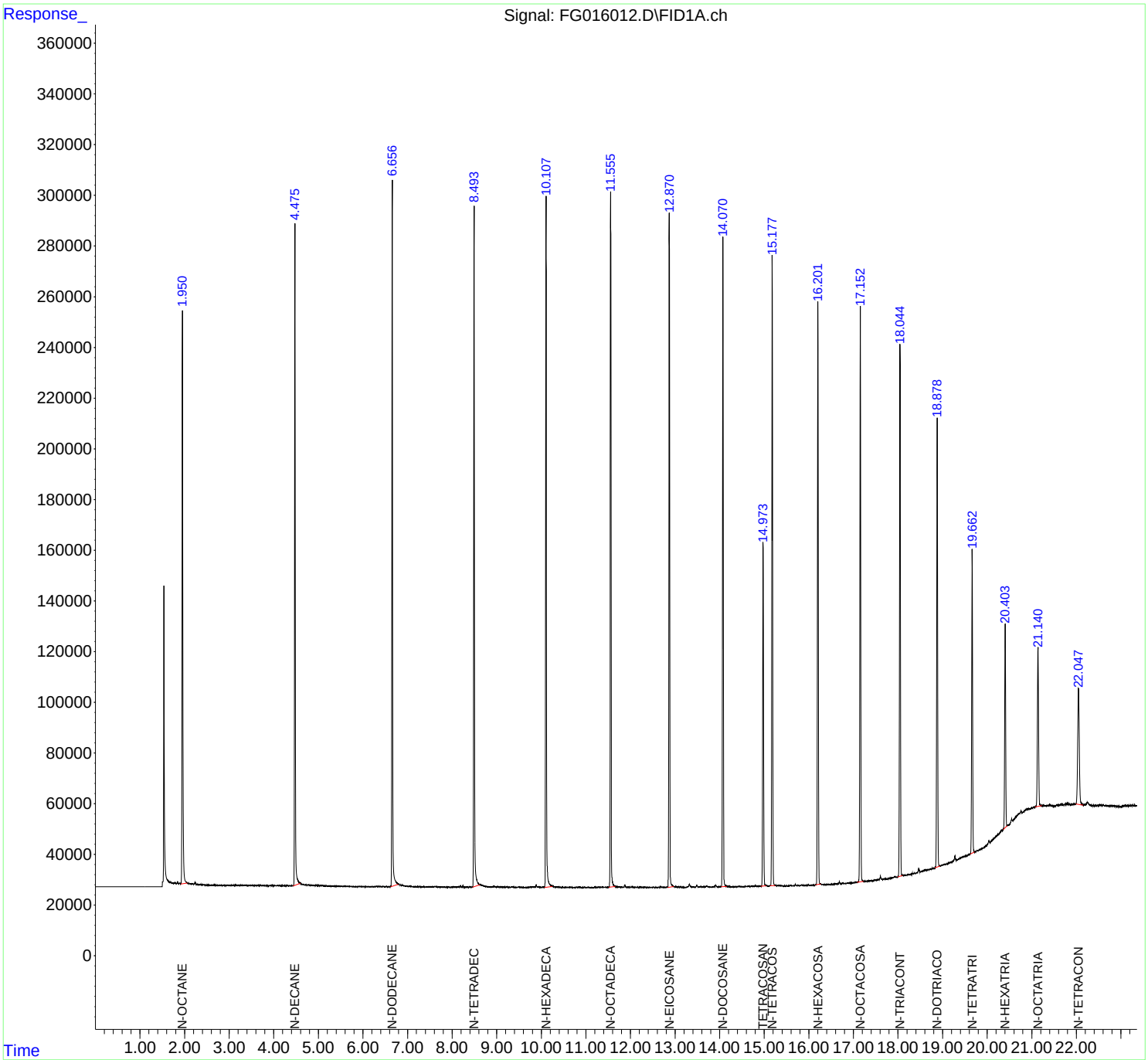
(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG061025\
Data File : FG016012.D
Signal(s) : FID1A.ch
Acq On : 10 Jun 2025 16:05
Operator : YP\AJ
Sample : PB168382BS
Misc :
ALS Vial : 27 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
PB168382BS

Integration File: autoint1.e
Quant Time: Jun 11 01:59:30 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG052225.M
Quant Title :
QLast Update : Thu May 22 06:20:25 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal Phase : Rxi-1ms
Signal Info : 20mx0.18mmx0.18um



rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG061025\
Data File : FG016012.D
Signal(s) : FID1A.ch
Acq On : 10 Jun 2025 16:05
Sample : PB168382BS
Misc :
ALS Vial : 27 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG052225.M
Title :

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	1.951	1.915	2.064	BB	225030	2675876	80.67%	5.784%
2	4.475	4.432	4.595	BB	260591	2859899	86.22%	6.181%
3	6.657	6.627	6.795	BB	278185	3052486	92.03%	6.598%
4	8.493	8.457	8.623	BB	268276	3062343	92.32%	6.619%
5	10.107	10.071	10.240	BB	272414	3193116	96.27%	6.901%
6	11.555	11.508	11.661	BB	273318	3316977	100.00%	7.169%
7	12.870	12.833	12.966	BB	263852	3254030	98.10%	7.033%
8	14.071	14.034	14.152	BB	255728	3193099	96.27%	6.901%
9	14.973	14.923	15.045	BB	134831	1847586	55.70%	3.993%
10	15.177	15.132	15.245	BB	248735	3148048	94.91%	6.804%
11	16.201	16.149	16.270	BB	229887	3070175	92.56%	6.636%
12	17.154	17.080	17.227	BB	225677	3017115	90.96%	6.521%
13	18.044	17.989	18.105	BB	209495	2922700	88.11%	6.317%
14	18.878	18.822	18.938	BB	176675	2518080	75.91%	5.442%
15	19.662	19.620	19.716	BB	119521	1676929	50.56%	3.624%
16	20.404	20.360	20.450	BB	80255	1208496	36.43%	2.612%
17	21.139	21.080	21.218	BB	62305	1124171	33.89%	2.430%
18	22.049	21.983	22.156	BB	45637	1126040	33.95%	2.434%
			Sum of corrected areas:			46267164		

FG052225.M Wed Jun 11 02:02:01 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG061025\
Data File : FG016019.D
Signal(s) : FID1A.ch
Acq On : 10 Jun 2025 19:31
Operator : YP\AJ
Sample : Q2246-01MS
Misc :
ALS Vial : 34 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
BU-03-060525MS

Integration File: autoint1.e
Quant Time: Jun 11 05:54:23 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG052225.M
Quant Title :
QLast Update : Thu May 22 06:20:25 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal Phase : Rxi-1ms
Signal Info : 20mx0.18mmx0.18um

	Compound	R.T.	Response	Conc Units
System Monitoring Compounds				
9) S	TETRACOSANE-d50 (SURR...	14.973	1090125	8.895 ug/ml
Target Compounds				
1)	N-OCTANE	1.951	455197	3.871 ug/ml
2)	N-DECANE	4.474	854055	7.269 ug/ml
3)	N-DODECANE	6.657	1026085	8.454 ug/ml
4)	N-TETRADECANE	8.492	1203302	9.424 ug/ml
5)	N-HEXADECANE	10.106	1386792	10.409 ug/ml
6)	N-OCTADECANE	11.554	1794083	13.000 ug/ml
7)	N-EICOSANE	12.868	1715916	12.146 ug/ml
8)	N-DOCOSANE	14.070	1428942	10.402 ug/ml
10)	N-TETRACOSANE	15.176	1499008	10.904 ug/ml
11)	N-HEXACOSANE	16.201	1230043	9.053 ug/ml
12)	N-OCTACOSANE	17.155	1351958	10.027 ug/ml
13)	N-TRIACONTANE	18.045	1539314	11.281 ug/ml
14)	N-DOTRIACONTANE	18.880	1367429	10.210 ug/ml
15)	N-TETRATRIACONTANE	19.665	1096460	9.042 ug/ml
16)	N-HEXATRIACONTANE	20.405	836842	7.837 ug/ml
17)	N-OCTATRIACONTANE	21.141	739550	7.706 ug/ml
18)	N-TETRACONTANE	22.057	892211	10.144 ug/ml

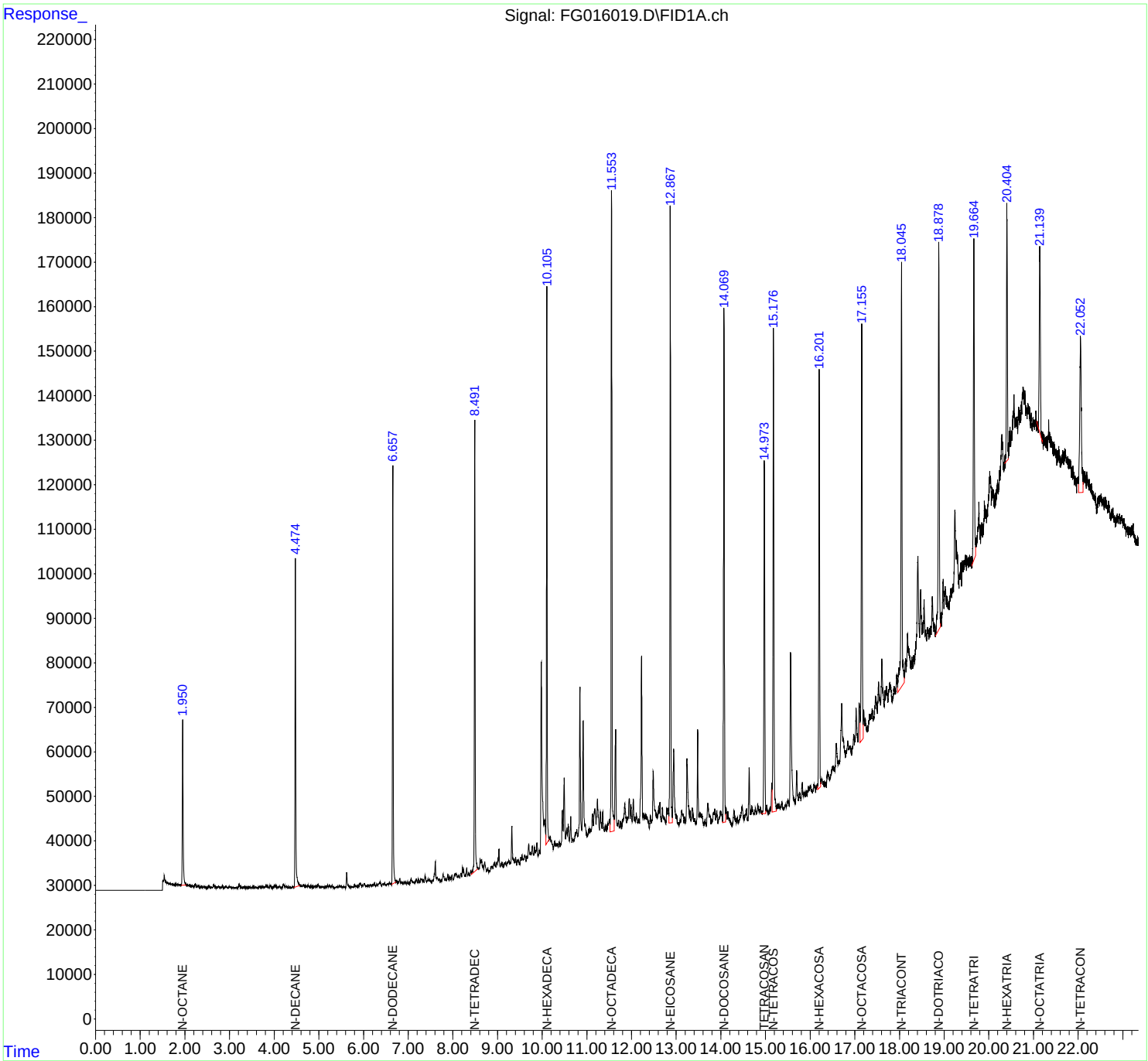
(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG061025\
Data File : FG016019.D
Signal(s) : FID1A.ch
Acq On : 10 Jun 2025 19:31
Operator : YP\AJ
Sample : Q2246-01MS
Misc :
ALS Vial : 34 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
BU-03-060525MS

Integration File: autoint1.e
Quant Time: Jun 11 05:54:23 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG052225.M
Quant Title :
QLast Update : Thu May 22 06:20:25 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal Phase : Rxi-1ms
Signal Info : 20mx0.18mmx0.18um



rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG061025\
Data File : FG016019.D
Signal(s) : FID1A.ch
Acq On : 10 Jun 2025 19:31
Sample : Q2246-01MS
Misc :
ALS Vial : 34 Sample Multiplier: 1

Integration File: Sample.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG052225.M
Title :

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	1.951	1.906	2.037	BV	37153	462712	22.96%	0.537%
2	2.040	2.037	2.075	VV	265	3969	0.20%	0.005%
3	2.081	2.075	2.094	VV	209	1495	0.07%	0.002%
4	2.097	2.094	2.117	VV	142	1300	0.06%	0.002%
5	2.120	2.117	2.151	VV	129	1433	0.07%	0.002%
6	2.158	2.151	2.192	VV	165	2814	0.14%	0.003%
7	2.202	2.192	2.213	VV	150	1208	0.06%	0.001%
8	2.234	2.213	2.264	VV	603	9838	0.49%	0.011%
9	2.268	2.264	2.279	VV	151	1128	0.06%	0.001%
10	2.296	2.279	2.314	VV	266	3287	0.16%	0.004%
11	2.318	2.314	2.338	VV	127	997	0.05%	0.001%
12	2.351	2.338	2.365	PV	168	1169	0.06%	0.001%
13	2.371	2.365	2.377	VV	114	495	0.02%	0.001%
14	2.385	2.377	2.395	VV	179	1164	0.06%	0.001%
15	2.396	2.395	2.418	VV	191	1095	0.05%	0.001%
16	2.429	2.418	2.441	VV	161	1350	0.07%	0.002%
17	2.444	2.441	2.455	VV	159	966	0.05%	0.001%
18	2.456	2.455	2.467	VV	172	785	0.04%	0.001%
19	2.472	2.467	2.490	PB	191	1197	0.06%	0.001%
20	2.529	2.494	2.533	BV	244	2303	0.11%	0.003%
21	2.536	2.533	2.567	VV	224	3252	0.16%	0.004%
22	2.570	2.567	2.575	VV	127	503	0.02%	0.001%
23	2.579	2.575	2.588	VV	127	520	0.03%	0.001%
24	2.594	2.588	2.614	PV	88	755	0.04%	0.001%
25	2.642	2.614	2.690	PV	575	13171	0.65%	0.015%
26	2.694	2.690	2.716	VV	178	1800	0.09%	0.002%
27	2.726	2.716	2.738	VV	181	1609	0.08%	0.002%
28	2.753	2.738	2.783	VV	259	5148	0.26%	0.006%
29	2.789	2.783	2.813	VV	130	1358	0.07%	0.002%
30	2.825	2.813	2.828	VV	133	979	0.05%	0.001%
31	2.847	2.828	2.866	VV	315	3818	0.19%	0.004%
32	2.869	2.866	2.878	VV	104	550	0.03%	0.001%
33	2.884	2.878	2.892	VV	87	554	0.03%	0.001%
34	2.910	2.892	2.955	VV	406	7334	0.36%	0.009%
35	2.991	2.955	3.061	VV	314	7538	0.37%	0.009%
36	3.063	3.061	3.082	VV	131	1099	0.05%	0.001%

rteres

37	3.085	3.082	3.108	VV	119	992	0.05%	0.001%
38	3.111	3.108	3.116	PV	57	136	0.01%	0.000%
39	3.132	3.116	3.139	PV	111	625	0.03%	0.001%
40	3.143	3.139	3.151	VV	121	401	0.02%	0.000%
41	3.155	3.151	3.168	VV	115	707	0.04%	0.001%
42	3.172	3.168	3.184	VV	102	604	0.03%	0.001%
43	3.214	3.184	3.273	VV	989	18445	0.92%	0.021%
44	3.276	3.273	3.286	VV	143	771	0.04%	0.001%
45	3.290	3.286	3.296	VV	191	536	0.03%	0.001%
46	3.304	3.296	3.314	VV	126	876	0.04%	0.001%
47	3.331	3.314	3.338	VV	196	2068	0.10%	0.002%
48	3.346	3.338	3.372	VV	208	2680	0.13%	0.003%
49	3.388	3.372	3.405	VV	185	2352	0.12%	0.003%
50	3.409	3.405	3.418	VV	101	686	0.03%	0.001%
51	3.422	3.418	3.440	VV	122	1490	0.07%	0.002%
52	3.452	3.440	3.481	VV	182	3096	0.15%	0.004%
53	3.485	3.481	3.506	VV	151	1476	0.07%	0.002%
54	3.524	3.506	3.541	PV	359	4166	0.21%	0.005%
55	3.545	3.541	3.567	VV	251	2311	0.11%	0.003%
56	3.573	3.567	3.577	VV	192	838	0.04%	0.001%
57	3.585	3.577	3.591	VV	196	1283	0.06%	0.001%
58	3.595	3.591	3.599	VV	157	705	0.03%	0.001%
59	3.607	3.599	3.623	VV	200	1965	0.10%	0.002%
60	3.626	3.623	3.638	VV	163	984	0.05%	0.001%
61	3.660	3.638	3.686	VV	319	5902	0.29%	0.007%
62	3.690	3.686	3.697	VV	201	1037	0.05%	0.001%
63	3.736	3.697	3.775	VV	309	9624	0.48%	0.011%
64	3.780	3.775	3.784	VV	163	588	0.03%	0.001%
65	3.812	3.784	3.826	VV	511	7477	0.37%	0.009%
66	3.833	3.826	3.876	VV	473	9198	0.46%	0.011%
67	3.908	3.876	3.956	VV	501	12171	0.60%	0.014%
68	3.982	3.956	3.987	VV	180	2013	0.10%	0.002%
69	3.993	3.987	3.997	VV	255	1075	0.05%	0.001%
70	4.011	3.997	4.030	VV	664	8337	0.41%	0.010%
71	4.044	4.030	4.064	VV	527	6532	0.32%	0.008%
72	4.068	4.064	4.072	VV	197	747	0.04%	0.001%
73	4.082	4.072	4.097	VV	265	2843	0.14%	0.003%
74	4.121	4.097	4.145	VV	406	6611	0.33%	0.008%
75	4.149	4.145	4.162	VV	139	927	0.05%	0.001%
76	4.166	4.162	4.171	VV	78	351	0.02%	0.000%
77	4.207	4.171	4.300	VV	974	29823	1.48%	0.035%
78	4.305	4.300	4.327	VV	281	3218	0.16%	0.004%
79	4.332	4.327	4.337	VV	175	726	0.04%	0.001%
80	4.341	4.337	4.396	VV	238	4660	0.23%	0.005%
81	4.414	4.396	4.439	VV	326	4616	0.23%	0.005%
82	4.474	4.439	4.588	VV	74133	890007	44.16%	1.033%
83	4.599	4.588	4.621	VV	632	9804	0.49%	0.011%
84	4.652	4.621	4.678	VV	771	19216	0.95%	0.022%
85	4.683	4.678	4.712	VV	526	8745	0.43%	0.010%
86	4.728	4.712	4.740	VV	464	6259	0.31%	0.007%
87	4.760	4.740	4.778	VV	636	11029	0.55%	0.013%
88	4.781	4.778	4.799	VV	487	4571	0.23%	0.005%
89	4.805	4.799	4.812	VV	385	2479	0.12%	0.003%

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90	4.815	4.812	4.831	VV	429	4279	0.21%	0.005%
91	4.837	4.831	4.858	VV	429	5028	0.25%	0.006%
92	4.874	4.858	4.883	VV	399	4031	0.20%	0.005%
93	4.902	4.883	4.908	VV	536	5903	0.29%	0.007%
94	4.911	4.908	4.930	VV	546	5471	0.27%	0.006%
95	4.946	4.930	4.960	VV	493	7481	0.37%	0.009%
96	4.984	4.960	5.028	VV	942	20064	1.00%	0.023%
97	5.041	5.028	5.047	VV	314	3029	0.15%	0.004%
98	5.060	5.047	5.073	VV	445	5545	0.28%	0.006%
99	5.077	5.073	5.117	VV	325	6458	0.32%	0.007%
100	5.157	5.117	5.173	VV	435	9158	0.45%	0.011%
101	5.191	5.173	5.216	VV	665	11838	0.59%	0.014%
102	5.233	5.216	5.268	VV	720	13932	0.69%	0.016%
103	5.278	5.268	5.284	VV	453	4026	0.20%	0.005%
104	5.298	5.284	5.343	VV	612	11014	0.55%	0.013%
105	5.352	5.343	5.356	VV	172	1129	0.06%	0.001%
106	5.396	5.356	5.408	VV	410	7946	0.39%	0.009%
107	5.417	5.408	5.432	VV	368	4155	0.21%	0.005%
108	5.460	5.432	5.473	VV	564	9313	0.46%	0.011%
109	5.496	5.473	5.515	VV	596	11176	0.55%	0.013%
110	5.520	5.515	5.533	VV	363	2983	0.15%	0.003%
111	5.537	5.533	5.542	VV	305	1442	0.07%	0.002%
112	5.549	5.542	5.553	VV	353	2192	0.11%	0.003%
113	5.558	5.553	5.576	VV	421	3595	0.18%	0.004%
114	5.584	5.576	5.601	VV	263	2392	0.12%	0.003%
115	5.624	5.601	5.683	PV	3553	56467	2.80%	0.066%
116	5.691	5.683	5.695	VV	277	1843	0.09%	0.002%
117	5.699	5.695	5.722	VV	250	2885	0.14%	0.003%
118	5.744	5.722	5.763	VV	287	4567	0.23%	0.005%
119	5.797	5.763	5.810	VV	813	10436	0.52%	0.012%
120	5.824	5.810	5.838	VV	466	6195	0.31%	0.007%
121	5.884	5.838	5.898	VV	499	10079	0.50%	0.012%
122	5.923	5.898	5.964	VV	991	23086	1.15%	0.027%
123	5.984	5.964	5.997	VV	419	6876	0.34%	0.008%
124	6.015	5.997	6.063	VV	847	18860	0.94%	0.022%
125	6.073	6.063	6.086	VV	301	3313	0.16%	0.004%
126	6.103	6.086	6.134	VV	562	9280	0.46%	0.011%
127	6.153	6.134	6.173	VV	485	7817	0.39%	0.009%
128	6.185	6.173	6.200	VV	386	5057	0.25%	0.006%
129	6.215	6.200	6.225	VV	461	6182	0.31%	0.007%
130	6.248	6.225	6.272	VV	615	12343	0.61%	0.014%
131	6.299	6.272	6.322	VV	638	8856	0.44%	0.010%
132	6.368	6.322	6.401	VV	986	27436	1.36%	0.032%
133	6.405	6.401	6.409	VV	150	512	0.03%	0.001%
134	6.427	6.409	6.437	VV	505	5376	0.27%	0.006%
135	6.443	6.437	6.455	VV	393	3884	0.19%	0.005%
136	6.473	6.455	6.506	VV	609	10542	0.52%	0.012%
137	6.526	6.506	6.557	PV	427	8678	0.43%	0.010%
138	6.581	6.557	6.611	VV	586	13401	0.66%	0.016%
139	6.613	6.611	6.631	VV	330	2915	0.14%	0.003%
140	6.657	6.631	6.731	VV	94291	1054068	52.30%	1.223%
141	6.745	6.731	6.762	VV	863	13575	0.67%	0.016%

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142	6.776	6.762	6.792	VV	796	11262	0.56%	0.013%
143	6.811	6.792	6.833	VV	1443	22565	1.12%	0.026%
144	6.843	6.833	6.855	VV	564	5662	0.28%	0.007%
145	6.860	6.855	6.875	VV	398	4006	0.20%	0.005%
146	6.884	6.875	6.894	VV	350	3309	0.16%	0.004%
147	6.913	6.894	6.930	VV	595	7974	0.40%	0.009%
148	6.945	6.930	6.967	VV	641	8163	0.41%	0.009%
149	6.984	6.967	7.004	VV	573	7713	0.38%	0.009%
150	7.016	7.004	7.034	VV	312	3252	0.16%	0.004%
151	7.067	7.034	7.095	VV	1247	22738	1.13%	0.026%
152	7.109	7.095	7.133	VV	462	7053	0.35%	0.008%
153	7.151	7.133	7.164	VV	517	7018	0.35%	0.008%
154	7.188	7.164	7.210	VV	1032	18144	0.90%	0.021%
155	7.231	7.210	7.263	VV	1034	16153	0.80%	0.019%
156	7.283	7.263	7.291	VV	921	10747	0.53%	0.012%
157	7.301	7.291	7.325	VV	930	15462	0.77%	0.018%
158	7.338	7.325	7.354	VV	721	8738	0.43%	0.010%
159	7.379	7.354	7.417	VV	1691	29199	1.45%	0.034%
160	7.443	7.417	7.462	VV	832	13463	0.67%	0.016%
161	7.478	7.462	7.493	VV	734	9853	0.49%	0.011%
162	7.505	7.493	7.527	VV	410	4817	0.24%	0.006%
163	7.549	7.527	7.558	PV	449	5958	0.30%	0.007%
164	7.561	7.558	7.566	VV	459	2033	0.10%	0.002%
165	7.586	7.566	7.593	VV	1866	19907	0.99%	0.023%
166	7.609	7.593	7.633	VV	4634	61860	3.07%	0.072%
167	7.644	7.633	7.676	VV	994	18639	0.92%	0.022%
168	7.691	7.676	7.718	VV	609	10094	0.50%	0.012%
169	7.732	7.718	7.744	VV	206	1999	0.10%	0.002%
170	7.782	7.744	7.817	VV	1694	32909	1.63%	0.038%
171	7.835	7.817	7.860	VV	537	7596	0.38%	0.009%
172	7.889	7.860	7.909	PV	1430	18898	0.94%	0.022%
173	7.929	7.909	7.934	VV	722	7098	0.35%	0.008%
174	7.944	7.934	7.964	VV	664	7897	0.39%	0.009%
175	7.979	7.964	8.015	VV	1125	13272	0.66%	0.015%
176	8.037	8.015	8.051	PV	1227	15117	0.75%	0.018%
177	8.064	8.051	8.107	VV	1380	31617	1.57%	0.037%
178	8.135	8.107	8.154	VV	796	15266	0.76%	0.018%
179	8.184	8.154	8.200	VV	1149	17257	0.86%	0.020%
180	8.218	8.200	8.232	VV	2424	28963	1.44%	0.034%
181	8.243	8.232	8.269	VV	1803	23919	1.19%	0.028%
182	8.277	8.269	8.291	VV	577	5578	0.28%	0.006%
183	8.311	8.291	8.342	VV	2089	31514	1.56%	0.037%
184	8.358	8.342	8.384	VV	887	13530	0.67%	0.016%
185	8.401	8.384	8.413	VV	1354	15263	0.76%	0.018%
186	8.431	8.413	8.441	VV	1129	15350	0.76%	0.018%
187	8.492	8.441	8.557	VV	102291	1268179	62.92%	1.472%
188	8.565	8.557	8.580	VV	1666	20380	1.01%	0.024%
189	8.616	8.580	8.628	VV	3283	64832	3.22%	0.075%
190	8.640	8.628	8.666	VV	3176	59800	2.97%	0.069%
191	8.677	8.666	8.692	VV	2135	25797	1.28%	0.030%
192	8.715	8.692	8.755	VV	2706	61332	3.04%	0.071%
193	8.769	8.755	8.775	VV	872	8901	0.44%	0.010%
194	8.784	8.775	8.811	VV	933	13165	0.65%	0.015%

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195	8.823	8.811	8.833	VV	515	5044	0.25%	0.006%
196	8.854	8.833	8.859	VV	1322	13558	0.67%	0.016%
197	8.866	8.859	8.877	VV	1415	14173	0.70%	0.016%
198	8.886	8.877	8.898	VV	1264	13709	0.68%	0.016%
199	8.918	8.898	8.928	VV	1910	27674	1.37%	0.032%
200	8.942	8.928	8.962	VV	2219	35109	1.74%	0.041%
201	8.981	8.962	8.996	VV	2029	33436	1.66%	0.039%
202	9.010	8.996	9.018	VV	2691	29893	1.48%	0.035%
203	9.033	9.018	9.061	VV	4946	72605	3.60%	0.084%
204	9.084	9.061	9.097	VV	1692	29060	1.44%	0.034%
205	9.110	9.097	9.125	VV	1635	21721	1.08%	0.025%
206	9.154	9.125	9.167	VV	1582	30679	1.52%	0.036%
207	9.180	9.167	9.200	VV	1795	28378	1.41%	0.033%
208	9.217	9.200	9.228	VV	1477	21554	1.07%	0.025%
209	9.253	9.228	9.280	VV	1978	51003	2.53%	0.059%
210	9.294	9.280	9.301	VV	1361	16286	0.81%	0.019%
211	9.322	9.301	9.388	VV	9534	174683	8.67%	0.203%
212	9.408	9.388	9.430	VV	2313	39564	1.96%	0.046%
213	9.451	9.430	9.493	VV	1757	46557	2.31%	0.054%
214	9.521	9.493	9.537	VV	2098	36325	1.80%	0.042%
215	9.550	9.537	9.575	VV	2643	46834	2.32%	0.054%
216	9.583	9.575	9.593	VV	1618	16646	0.83%	0.019%
217	9.606	9.593	9.639	VV	2511	55300	2.74%	0.064%
218	9.656	9.639	9.669	VV	2250	30692	1.52%	0.036%
219	9.699	9.669	9.733	VV	4740	116697	5.79%	0.135%
220	9.744	9.733	9.754	VV	2839	32750	1.62%	0.038%
221	9.781	9.754	9.810	VV	4196	102324	5.08%	0.119%
222	9.830	9.810	9.847	VV	3917	66630	3.31%	0.077%
223	9.860	9.847	9.867	VV	3092	35751	1.77%	0.041%
224	9.884	9.867	9.904	VV	4795	71634	3.55%	0.083%
225	9.935	9.904	9.958	VV	2987	75246	3.73%	0.087%
226	9.980	9.958	10.040	VV	45100	920960	45.70%	1.069%
227	10.054	10.040	10.080	VV	9483	202185	10.03%	0.235%
228	10.106	10.080	10.157	VV	128625	1593030	79.04%	1.849%
229	10.162	10.157	10.171	VV	5142	40779	2.02%	0.047%
230	10.175	10.171	10.200	VV	5299	85512	4.24%	0.099%
231	10.207	10.200	10.253	VV	4572	116241	5.77%	0.135%
232	10.280	10.253	10.305	VV	4360	112169	5.57%	0.130%
233	10.319	10.305	10.325	VV	3441	39877	1.98%	0.046%
234	10.341	10.325	10.361	VV	3749	72552	3.60%	0.084%
235	10.380	10.361	10.407	VV	3913	91617	4.55%	0.106%
236	10.453	10.407	10.471	VV	10904	229351	11.38%	0.266%
237	10.494	10.471	10.524	VV	18086	337468	16.74%	0.392%
238	10.546	10.524	10.563	VV	6444	128922	6.40%	0.150%
239	10.584	10.563	10.608	VV	7566	156539	7.77%	0.182%
240	10.640	10.608	10.666	VV	9153	196393	9.74%	0.228%
241	10.686	10.666	10.692	VV	3902	58895	2.92%	0.068%
242	10.697	10.692	10.716	VV	3866	52562	2.61%	0.061%
243	10.748	10.716	10.753	VV	5424	101530	5.04%	0.118%
244	10.757	10.753	10.762	VV	5453	26390	1.31%	0.031%
245	10.775	10.762	10.798	VV	5931	113883	5.65%	0.132%
246	10.847	10.798	10.886	VV	37712	662945	32.89%	0.769%

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247	10.918	10.886	10.945	VV	29732	538669	26.73%	0.625%
248	10.949	10.945	11.012	VV	7028	220190	10.93%	0.256%
249	11.038	11.012	11.048	VV	5234	99776	4.95%	0.116%
250	11.055	11.048	11.079	VV	5538	98104	4.87%	0.114%
251	11.093	11.079	11.101	VV	5481	66513	3.30%	0.077%
252	11.128	11.101	11.146	VV	8805	187399	9.30%	0.217%
253	11.172	11.146	11.208	VV	9796	305969	15.18%	0.355%
254	11.239	11.208	11.283	VV	11893	380246	18.87%	0.441%
255	11.303	11.283	11.341	VV	8910	225254	11.18%	0.261%
256	11.355	11.341	11.394	VV	8872	194842	9.67%	0.226%
257	11.412	11.394	11.440	VV	5657	136202	6.76%	0.158%
258	11.442	11.440	11.447	VV	4628	20499	1.02%	0.024%
259	11.469	11.447	11.485	VV	5984	123197	6.11%	0.143%
260	11.512	11.485	11.524	VV	6836	147205	7.30%	0.171%
261	11.554	11.524	11.616	VV	147467	2015427	100.00%	2.339%
262	11.644	11.616	11.683	VV	26756	525994	26.10%	0.610%
263	11.686	11.683	11.691	VV	5331	24626	1.22%	0.029%
264	11.712	11.691	11.732	VV	6137	131929	6.55%	0.153%
265	11.752	11.732	11.775	VV	5855	132567	6.58%	0.154%
266	11.804	11.775	11.810	VV	6218	114479	5.68%	0.133%
267	11.849	11.810	11.892	VV	9783	357377	17.73%	0.415%
268	11.908	11.892	11.913	VV	6678	73305	3.64%	0.085%
269	11.921	11.913	11.925	VV	6596	46724	2.32%	0.054%
270	11.951	11.925	11.970	VV	10460	228188	11.32%	0.265%
271	11.989	11.970	12.018	VV	9085	204587	10.15%	0.237%
272	12.040	12.018	12.066	VV	10465	211444	10.49%	0.245%
273	12.075	12.066	12.089	VV	6385	81307	4.03%	0.094%
274	12.108	12.089	12.142	VV	7154	188922	9.37%	0.219%
275	12.160	12.142	12.177	VV	5597	109767	5.45%	0.127%
276	12.225	12.177	12.252	VV	41812	753289	37.38%	0.874%
277	12.264	12.252	12.280	VV	6692	101175	5.02%	0.117%
278	12.296	12.280	12.309	VV	6175	101785	5.05%	0.118%
279	12.325	12.309	12.346	VV	6165	127687	6.34%	0.148%
280	12.349	12.346	12.398	VV	5634	144044	7.15%	0.167%
281	12.425	12.398	12.445	VV	5891	132441	6.57%	0.154%
282	12.485	12.445	12.525	VV	15797	416114	20.65%	0.483%
283	12.529	12.525	12.558	VV	6960	121722	6.04%	0.141%
284	12.569	12.558	12.589	VV	5862	106034	5.26%	0.123%
285	12.608	12.589	12.624	VV	7620	141280	7.01%	0.164%
286	12.638	12.624	12.673	VV	8488	176845	8.77%	0.205%
287	12.693	12.673	12.712	VV	7167	132444	6.57%	0.154%
288	12.717	12.712	12.737	VV	5191	71993	3.57%	0.084%
289	12.742	12.737	12.765	VV	4697	68853	3.42%	0.080%
290	12.790	12.765	12.807	VV	6861	134444	6.67%	0.156%
291	12.821	12.807	12.838	VV	6837	114322	5.67%	0.133%
292	12.868	12.838	12.914	VV	141237	1870088	92.79%	2.170%
293	12.943	12.914	12.997	VV	19853	476881	23.66%	0.553%
294	13.012	12.997	13.037	VV	4669	92562	4.59%	0.107%
295	13.038	13.037	13.047	VV	3094	17954	0.89%	0.021%
296	13.056	13.047	13.060	VV	2876	21918	1.09%	0.025%
297	13.094	13.060	13.101	VV	3672	78294	3.88%	0.091%
298	13.125	13.101	13.147	VV	5735	130537	6.48%	0.151%
299	13.150	13.147	13.177	VV	4760	75006	3.72%	0.087%

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300	13.194	13.177	13.212	VV	4127	71949	3.57%	0.084%
301	13.242	13.212	13.300	VV	17107	441587	21.91%	0.512%
302	13.313	13.300	13.335	VV	5275	86448	4.29%	0.100%
303	13.361	13.335	13.395	VV	5759	155850	7.73%	0.181%
304	13.410	13.395	13.438	VV	3389	73305	3.64%	0.085%
305	13.481	13.438	13.508	VV	23194	352471	17.49%	0.409%
306	13.519	13.508	13.533	VV	4125	57899	2.87%	0.067%
307	13.550	13.533	13.568	VV	4256	78421	3.89%	0.091%
308	13.577	13.568	13.617	VV	3852	80120	3.98%	0.093%
309	13.621	13.617	13.626	VV	1596	8024	0.40%	0.009%
310	13.644	13.626	13.676	VV	2732	57044	2.83%	0.066%
311	13.706	13.676	13.738	VV	6199	156648	7.77%	0.182%
312	13.743	13.738	13.750	VV	3351	22609	1.12%	0.026%
313	13.754	13.750	13.774	VV	3307	40204	1.99%	0.047%
314	13.788	13.774	13.802	VV	2482	33888	1.68%	0.039%
315	13.833	13.802	13.848	VV	3859	79747	3.96%	0.093%
316	13.864	13.848	13.883	VV	4597	73385	3.64%	0.085%
317	13.906	13.883	13.936	VV	4201	88491	4.39%	0.103%
318	13.956	13.936	13.964	VV	2442	33146	1.64%	0.038%
319	13.988	13.964	14.007	VV	3977	83217	4.13%	0.097%
320	14.010	14.007	14.041	VV	3519	55608	2.76%	0.065%
321	14.070	14.041	14.104	VV	116784	1474792	73.18%	1.712%
322	14.119	14.104	14.142	VV	4433	75255	3.73%	0.087%
323	14.157	14.142	14.188	VV	3470	64284	3.19%	0.075%
324	14.194	14.188	14.239	VV	1627	32149	1.60%	0.037%
325	14.249	14.239	14.259	PV	556	4042	0.20%	0.005%
326	14.297	14.259	14.326	VV	3354	75901	3.77%	0.088%
327	14.335	14.326	14.347	VV	1371	13616	0.68%	0.016%
328	14.367	14.347	14.385	VV	1534	20123	1.00%	0.023%
329	14.397	14.385	14.402	VV	857	5583	0.28%	0.006%
330	14.409	14.402	14.412	VV	924	4550	0.23%	0.005%
331	14.436	14.412	14.442	VV	1708	24168	1.20%	0.028%
332	14.477	14.442	14.525	VV	3841	104941	5.21%	0.122%
333	14.547	14.525	14.552	VV	1682	20409	1.01%	0.024%
334	14.575	14.552	14.609	VV	2923	49394	2.45%	0.057%
335	14.633	14.609	14.659	VV	11917	160056	7.94%	0.186%
336	14.666	14.659	14.670	VV	1809	10472	0.52%	0.012%
337	14.691	14.670	14.709	VV	3229	52590	2.61%	0.061%
338	14.713	14.709	14.736	VV	2267	27226	1.35%	0.032%
339	14.774	14.736	14.799	VV	2154	58001	2.88%	0.067%
340	14.826	14.799	14.847	VV	3009	59660	2.96%	0.069%
341	14.851	14.847	14.862	VV	1890	14256	0.71%	0.017%
342	14.884	14.862	14.910	VV	2161	43943	2.18%	0.051%
343	14.914	14.910	14.922	VV	907	5582	0.28%	0.006%
344	14.925	14.922	14.928	VV	887	3121	0.15%	0.004%
345	14.973	14.928	15.007	VV	79898	1115886	55.37%	1.295%
346	15.029	15.007	15.060	VV	2243	40928	2.03%	0.047%
347	15.069	15.060	15.086	VV	717	7516	0.37%	0.009%
348	15.103	15.086	15.116	VV	1720	20006	0.99%	0.023%
349	15.138	15.116	15.151	VV	6929	88812	4.41%	0.103%
350	15.176	15.151	15.249	VV	108219	1516633	75.25%	1.760%
351	15.267	15.249	15.281	VV	1589	22543	1.12%	0.026%

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352	15.301	15.281	15.329	VV	1608	32212	1.60%	0.037%
353	15.364	15.329	15.396	VV	1947	41391	2.05%	0.048%
354	15.401	15.396	15.411	VV	425	2424	0.12%	0.003%
355	15.416	15.411	15.420	PV	398	1294	0.06%	0.002%
356	15.453	15.420	15.467	VV	956	18176	0.90%	0.021%
357	15.491	15.467	15.502	VV	1659	22893	1.14%	0.027%
358	15.511	15.502	15.532	VV	1501	15882	0.79%	0.018%
359	15.562	15.532	15.648	VV	34561	697054	34.59%	0.809%
360	15.653	15.648	15.672	VV	1033	6481	0.32%	0.008%
361	15.698	15.672	15.737	VV	7190	117486	5.83%	0.136%
362	15.764	15.737	15.797	VV	2154	37648	1.87%	0.044%
363	15.824	15.797	15.851	VV	3976	65764	3.26%	0.076%
364	15.860	15.851	15.866	VV	1605	11123	0.55%	0.013%
365	15.869	15.866	15.892	VV	1270	16828	0.83%	0.020%
366	15.908	15.892	15.911	VV	1662	11716	0.58%	0.014%
367	15.916	15.911	15.935	VV	1492	11923	0.59%	0.014%
368	15.955	15.935	15.980	VV	2238	44491	2.21%	0.052%
369	16.002	15.980	16.021	VV	2480	45787	2.27%	0.053%
370	16.028	16.021	16.042	VV	1454	14941	0.74%	0.017%
371	16.046	16.042	16.055	VV	1000	5356	0.27%	0.006%
372	16.085	16.055	16.098	VV	2297	38626	1.92%	0.045%
373	16.105	16.098	16.125	VV	1820	20192	1.00%	0.023%
374	16.156	16.125	16.172	VV	1874	38182	1.89%	0.044%
375	16.201	16.172	16.237	VV	94670	1259484	62.49%	1.462%
376	16.243	16.237	16.248	VV	2251	13291	0.66%	0.015%
377	16.260	16.248	16.285	VV	2482	44784	2.22%	0.052%
378	16.290	16.285	16.303	VV	1839	13709	0.68%	0.016%
379	16.321	16.303	16.341	VV	1790	22547	1.12%	0.026%
380	16.345	16.341	16.361	VV	1340	8926	0.44%	0.010%
381	16.391	16.361	16.436	PV	3297	93544	4.64%	0.109%
382	16.439	16.436	16.442	VV	1362	4589	0.23%	0.005%
383	16.491	16.442	16.497	VV	3170	63704	3.16%	0.074%
384	16.513	16.497	16.517	VV	2968	34711	1.72%	0.040%
385	16.521	16.517	16.530	VV	3086	19515	0.97%	0.023%
386	16.535	16.530	16.551	VV	2417	24862	1.23%	0.029%
387	16.589	16.551	16.617	VV	7354	179243	8.89%	0.208%
388	16.648	16.617	16.656	VV	2895	59505	2.95%	0.069%
389	16.706	16.656	16.731	VV	14895	360636	17.89%	0.419%
390	16.734	16.731	16.772	VV	7093	130807	6.49%	0.152%
391	16.776	16.772	16.790	VV	3489	29866	1.48%	0.035%
392	16.842	16.790	16.863	VV	4647	148334	7.36%	0.172%
393	16.873	16.863	16.878	VV	3290	25528	1.27%	0.030%
394	16.884	16.878	16.900	VV	3249	38156	1.89%	0.044%
395	16.903	16.900	16.913	VV	3169	20056	1.00%	0.023%
396	16.918	16.913	16.927	VV	2219	13049	0.65%	0.015%
397	16.974	16.927	16.991	VV	4885	106624	5.29%	0.124%
398	17.002	16.991	17.009	VV	3500	35369	1.75%	0.041%
399	17.029	17.009	17.071	VV	9949	196229	9.74%	0.228%
400	17.094	17.071	17.098	VV	10204	98986	4.91%	0.115%
401	17.102	17.098	17.118	VV	10192	97352	4.83%	0.113%
402	17.155	17.118	17.187	VV	95068	1403559	69.64%	1.629%
403	17.201	17.187	17.221	VV	7656	116529	5.78%	0.135%
404	17.230	17.221	17.272	VV	5438	111933	5.55%	0.130%

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405	17.329	17.272	17.337	VV	5200	122138	6.06%	0.142%
406	17.341	17.337	17.346	VV	4620	23643	1.17%	0.027%
407	17.353	17.346	17.358	VV	4508	29180	1.45%	0.034%
408	17.386	17.358	17.409	VV	5707	134892	6.69%	0.157%
409	17.415	17.409	17.426	VV	3482	32423	1.61%	0.038%
410	17.462	17.426	17.505	VV	7476	247073	12.26%	0.287%
411	17.534	17.505	17.575	VV	10007	276780	13.73%	0.321%
412	17.606	17.575	17.657	VV	14212	368439	18.28%	0.428%
413	17.674	17.657	17.687	VV	6408	85760	4.26%	0.100%
414	17.712	17.687	17.737	VV	6885	161644	8.02%	0.188%
415	17.740	17.737	17.744	VV	3605	14105	0.70%	0.016%
416	17.773	17.744	17.780	VV	6630	112971	5.61%	0.131%
417	17.786	17.780	17.795	VV	6687	54890	2.72%	0.064%
418	17.799	17.795	17.832	VV	6070	96329	4.78%	0.112%
419	17.842	17.832	17.847	VV	2910	22604	1.12%	0.026%
420	17.887	17.847	17.902	VV	4750	119509	5.93%	0.139%
421	17.908	17.902	17.912	VV	3619	19386	0.96%	0.022%
422	17.933	17.912	17.960	VV	6784	146805	7.28%	0.170%
423	17.984	17.960	17.992	VV	7843	116994	5.80%	0.136%
424	18.010	17.992	18.015	VV	8577	99138	4.92%	0.115%
425	18.045	18.015	18.076	VV	97790	1450941	71.99%	1.684%
426	18.079	18.076	18.112	VV	7412	127810	6.34%	0.148%
427	18.137	18.112	18.148	VV	8023	142267	7.06%	0.165%
428	18.182	18.148	18.197	VV	13140	270389	13.42%	0.314%
429	18.201	18.197	18.206	VV	9883	50741	2.52%	0.059%
430	18.211	18.206	18.246	VV	9189	178975	8.88%	0.208%
431	18.252	18.246	18.263	VV	6060	57106	2.83%	0.066%
432	18.279	18.263	18.296	VV	6721	108096	5.36%	0.125%
433	18.310	18.296	18.314	VV	6513	55510	2.75%	0.064%
434	18.320	18.314	18.341	VV	6686	90818	4.51%	0.105%
435	18.410	18.341	18.452	VV	26832	909193	45.11%	1.055%
436	18.473	18.452	18.516	VV	19380	513549	25.48%	0.596%
437	18.522	18.516	18.535	VV	11501	120607	5.98%	0.140%
438	18.551	18.535	18.572	VV	16374	277237	13.76%	0.322%
439	18.577	18.572	18.581	VV	9045	44536	2.21%	0.052%
440	18.589	18.581	18.610	VV	9117	133736	6.64%	0.155%
441	18.623	18.610	18.628	VV	8948	89044	4.42%	0.103%
442	18.633	18.628	18.650	VV	9061	108237	5.37%	0.126%
443	18.656	18.650	18.661	VV	7159	45665	2.27%	0.053%
444	18.676	18.661	18.686	VV	8310	112905	5.60%	0.131%
445	18.736	18.686	18.768	VV	14952	475126	23.57%	0.551%
446	18.773	18.768	18.805	VV	8570	155364	7.71%	0.180%
447	18.880	18.805	18.916	VV	91814	1746945	86.68%	2.027%
448	18.931	18.916	18.938	VV	8594	103925	5.16%	0.121%
449	18.977	18.938	18.995	VV	15544	376368	18.67%	0.437%
450	19.023	18.995	19.027	VV	13869	229441	11.38%	0.266%
451	19.033	19.027	19.042	VV	12977	106913	5.30%	0.124%
452	19.048	19.042	19.063	VV	11347	125609	6.23%	0.146%
453	19.068	19.063	19.084	VV	11024	122418	6.07%	0.142%
454	19.109	19.084	19.114	VV	9411	154969	7.69%	0.180%
455	19.125	19.114	19.131	VV	10281	97779	4.85%	0.113%
456	19.150	19.131	19.161	VV	11783	191417	9.50%	0.222%

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457	19.165	19.161	19.170	VV	11240	56898	2.82%	0.066%
458	19.182	19.170	19.195	VV	11612	164148	8.14%	0.191%
459	19.200	19.195	19.212	VV	12256	116892	5.80%	0.136%
460	19.241	19.212	19.268	VV	28249	701021	34.78%	0.814%
461	19.275	19.268	19.294	VV	20771	284344	14.11%	0.330%
462	19.302	19.294	19.331	VV	17310	306512	15.21%	0.356%
463	19.341	19.331	19.356	VV	12638	175855	8.73%	0.204%
464	19.377	19.356	19.390	VV	14969	266768	13.24%	0.310%
465	19.406	19.390	19.412	VV	14629	162491	8.06%	0.189%
466	19.422	19.412	19.428	VV	13375	128926	6.40%	0.150%
467	19.434	19.428	19.444	VV	14616	128930	6.40%	0.150%
468	19.478	19.444	19.487	VV	15395	366636	18.19%	0.426%
469	19.491	19.487	19.498	VV	13840	92357	4.58%	0.107%
470	19.508	19.498	19.521	VV	14098	179003	8.88%	0.208%
471	19.525	19.521	19.537	VV	13516	131858	6.54%	0.153%
472	19.544	19.537	19.558	VV	13904	163507	8.11%	0.190%
473	19.570	19.558	19.591	VV	13994	255683	12.69%	0.297%
474	19.599	19.591	19.608	VV	13411	133744	6.64%	0.155%
475	19.616	19.608	19.626	VV	13555	127578	6.33%	0.148%
476	19.665	19.626	19.707	VV	84141	1690422	83.87%	1.962%
477	19.715	19.707	19.720	VV	16388	118234	5.87%	0.137%
478	19.725	19.720	19.732	VV	16174	117217	5.82%	0.136%
479	19.738	19.732	19.743	VV	16710	103521	5.14%	0.120%
480	19.779	19.743	19.800	VV	23552	640415	31.78%	0.743%
481	19.806	19.800	19.817	VV	18259	168009	8.34%	0.195%
482	19.842	19.817	19.857	VV	18438	410045	20.35%	0.476%
483	19.876	19.857	19.882	VV	17773	239993	11.91%	0.279%
484	19.902	19.882	19.910	VV	22568	328341	16.29%	0.381%
485	19.916	19.910	19.925	VV	21361	177259	8.80%	0.206%
486	19.930	19.925	19.935	VV	20189	114886	5.70%	0.133%
487	19.941	19.935	19.949	VV	20249	163078	8.09%	0.189%
488	19.959	19.949	19.963	VV	19655	156939	7.79%	0.182%
489	19.968	19.963	19.975	VV	20509	138418	6.87%	0.161%
490	20.021	19.975	20.026	VV	27634	712882	35.37%	0.827%
491	20.031	20.026	20.035	VV	26727	149177	7.40%	0.173%
492	20.041	20.035	20.056	VV	26515	297770	14.77%	0.346%
493	20.078	20.056	20.085	VV	23308	387153	19.21%	0.449%
494	20.090	20.085	20.100	VV	22523	195642	9.71%	0.227%
495	20.105	20.100	20.112	VV	22254	161558	8.02%	0.187%
496	20.117	20.112	20.122	VV	21431	122954	6.10%	0.143%
497	20.126	20.122	20.133	VV	20671	127701	6.34%	0.148%
498	20.137	20.133	20.142	VV	21159	107226	5.32%	0.124%
499	20.148	20.142	20.157	VV	21577	179373	8.90%	0.208%
500	20.170	20.157	20.174	VV	21900	209417	10.39%	0.243%
501	20.196	20.174	20.211	VV	23882	485398	24.08%	0.563%
502	20.217	20.211	20.222	VV	21666	140866	6.99%	0.163%
503	20.236	20.222	20.252	VV	25586	434620	21.56%	0.504%
504	20.258	20.252	20.263	VV	26018	165803	8.23%	0.192%
505	20.282	20.263	20.286	VV	32177	380481	18.88%	0.442%
506	20.295	20.286	20.325	VV	32897	702847	34.87%	0.816%
507	20.335	20.325	20.346	VV	26108	315685	15.66%	0.366%
508	20.354	20.346	20.362	VV	26620	246506	12.23%	0.286%
509	20.366	20.362	20.370	VV	26953	133853	6.64%	0.155%

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510	20.405	20.370	20.446	VV	82417	2011418	99.80%	2.334%
511	20.464	20.446	20.470	VV	31397	414710	20.58%	0.481%
512	20.475	20.470	20.487	VV	32221	298835	14.83%	0.347%
513	20.490	20.487	20.495	VV	30135	145061	7.20%	0.168%
514	20.502	20.495	20.518	VV	31347	418298	20.75%	0.485%
515	20.565	20.518	20.586	VV	38657	1356893	67.33%	1.575%
516	20.598	20.586	20.605	VV	32943	360166	17.87%	0.418%
517	20.617	20.605	20.632	VV	33041	533443	26.47%	0.619%
518	20.642	20.632	20.649	VV	32046	309105	15.34%	0.359%
519	20.664	20.649	20.668	VV	34092	370824	18.40%	0.430%
520	20.672	20.668	20.685	VV	34543	318094	15.78%	0.369%
521	20.689	20.685	20.702	VV	33208	328407	16.29%	0.381%
522	20.706	20.702	20.711	VV	32653	174308	8.65%	0.202%
523	20.731	20.711	20.740	VV	34874	578799	28.72%	0.672%
524	20.754	20.740	20.758	VV	36224	382551	18.98%	0.444%
525	20.765	20.758	20.785	VV	37991	584015	28.98%	0.678%
526	20.788	20.785	20.793	VV	36984	186058	9.23%	0.216%
527	20.804	20.793	20.831	VV	36095	770147	38.21%	0.894%
528	20.833	20.831	20.856	VV	32997	475674	23.60%	0.552%
529	20.876	20.856	20.933	VV	32996	1425652	70.74%	1.655%
530	20.938	20.933	20.941	VV	29265	131636	6.53%	0.153%
531	20.953	20.941	20.982	VV	29566	693600	34.41%	0.805%
532	20.992	20.982	21.000	VV	28010	286724	14.23%	0.333%
533	21.004	21.000	21.008	VV	27287	135616	6.73%	0.157%
534	21.013	21.008	21.024	VV	27778	253308	12.57%	0.294%
535	21.031	21.024	21.040	VV	26951	252475	12.53%	0.293%
536	21.053	21.040	21.070	VV	28648	493905	24.51%	0.573%
537	21.080	21.070	21.093	VV	26682	358192	17.77%	0.416%
538	21.097	21.093	21.107	VV	26207	211682	10.50%	0.246%
539	21.141	21.107	21.194	VV	64048	1933532	95.94%	2.244%
540	21.199	21.194	21.227	VV	21885	413997	20.54%	0.480%
541	21.231	21.227	21.236	VV	21681	99106	4.92%	0.115%
542	21.240	21.236	21.251	VV	21296	186132	9.24%	0.216%
543	21.254	21.251	21.258	VV	20469	90814	4.51%	0.105%
544	21.262	21.258	21.270	VV	20237	135020	6.70%	0.157%
545	21.273	21.270	21.278	VV	20286	98379	4.88%	0.114%
546	21.281	21.278	21.289	VV	20207	120359	5.97%	0.140%
547	21.296	21.289	21.303	VV	20721	163434	8.11%	0.190%
548	21.307	21.303	21.315	VV	19819	142674	7.08%	0.166%
549	21.341	21.315	21.356	VV	23356	496623	24.64%	0.576%
550	21.360	21.356	21.364	VV	20840	97651	4.85%	0.113%
551	21.369	21.364	21.383	VV	20232	207844	10.31%	0.241%
552	21.387	21.383	21.393	VV	19408	116722	5.79%	0.135%
553	21.396	21.393	21.417	VV	19396	256082	12.71%	0.297%
554	21.418	21.417	21.434	VV	18000	177783	8.82%	0.206%
555	21.440	21.434	21.452	VV	17657	165920	8.23%	0.193%
556	21.465	21.452	21.493	VV	17331	384065	19.06%	0.446%
557	21.501	21.493	21.506	VV	15293	108915	5.40%	0.126%
558	21.510	21.506	21.538	VV	15212	262530	13.03%	0.305%
559	21.543	21.538	21.556	VV	14465	135921	6.74%	0.158%
560	21.565	21.556	21.597	VV	15194	322659	16.01%	0.374%
561	21.601	21.597	21.606	VV	12658	64477	3.20%	0.075%

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562	21.616	21.606	21.623	VV	11302	112374	5.58%	0.130%
563	21.637	21.623	21.641	VV	12556	117556	5.83%	0.136%
564	21.654	21.641	21.658	VV	13293	123832	6.14%	0.144%
565	21.663	21.658	21.676	VV	12641	122777	6.09%	0.142%
566	21.685	21.676	21.695	VV	12508	136209	6.76%	0.158%
567	21.701	21.695	21.712	VV	13006	118825	5.90%	0.138%
568	21.716	21.712	21.737	VV	12772	164985	8.19%	0.191%
569	21.740	21.737	21.743	VV	10655	40157	1.99%	0.047%
570	21.749	21.743	21.753	VV	10008	56902	2.82%	0.066%
571	21.766	21.753	21.772	VV	10239	106063	5.26%	0.123%
572	21.778	21.772	21.789	VV	9887	93234	4.63%	0.108%
573	21.794	21.789	21.819	VV	9611	150291	7.46%	0.174%
574	21.827	21.819	21.852	VV	9169	146768	7.28%	0.170%
575	21.857	21.852	21.868	VV	6953	59491	2.95%	0.069%
576	21.875	21.868	21.879	VV	6971	35623	1.77%	0.041%
577	21.886	21.879	21.897	VV	6954	59087	2.93%	0.069%
578	21.903	21.897	21.920	VV	5125	55625	2.76%	0.065%
579	21.923	21.920	21.926	VV	4164	12303	0.61%	0.014%
580	21.934	21.926	21.947	VV	4183	39319	1.95%	0.046%
581	21.950	21.947	21.967	VV	3472	23437	1.16%	0.027%
582	21.984	21.967	21.991	PV	2560	25996	1.29%	0.030%
583	21.994	21.991	22.008	VV	2069	14248	0.71%	0.017%
584	22.057	22.008	22.070	PBA	19732	364061	18.06%	0.423%

Sum of corrected areas: 86164903

FG052225.M Wed Jun 11 07:13:28 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG061025\
Data File : FG016020.D
Signal(s) : FID1A.ch
Acq On : 10 Jun 2025 20:01
Operator : YP\AJ
Sample : Q2246-01MSD
Misc :
ALS Vial : 35 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
BU-03-060525MSD

Integration File: autoint1.e
Quant Time: Jun 11 05:54:45 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG052225.M
Quant Title :
QLast Update : Thu May 22 06:20:25 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal Phase : Rxi-1ms
Signal Info : 20mx0.18mmx0.18um

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
9)	S TETRACOSANE-d50 (SURR...	14.973	1088021	8.877 ug/ml
	Target Compounds			
1)	N-OCTANE	1.952	457839	3.894 ug/ml
2)	N-DECANE	4.474	862193	7.338 ug/ml
3)	N-DODECANE	6.657	1028806	8.476 ug/ml
4)	N-TETRADECANE	8.493	1271311	9.956 ug/ml
5)	N-HEXADECANE	10.106	1391528	10.445 ug/ml
6)	N-OCTADECANE	11.554	1751574	12.692 ug/ml
7)	N-EICOSANE	12.868	1681439	11.902 ug/ml
8)	N-DOCOSANE	14.071	1405054	10.229 ug/ml
10)	N-TETRACOSANE	15.177	1463654	10.647 ug/ml
11)	N-HEXACOSANE	16.201	1243834	9.155 ug/ml
12)	N-OCTACOSANE	17.154	1334279	9.896 ug/ml
13)	N-TRIACONTANE	18.044	1377873	10.098 ug/ml
14)	N-DOTRIACONTANE	18.879	1349517	10.076 ug/ml
15)	N-TETRATRIACONTANE	19.665	1073709	8.854 ug/ml
16)	N-HEXATRIACONTANE	20.406	834082	7.811 ug/ml
17)	N-OCTATRIACONTANE	21.144	832545	8.675 ug/ml
18)	N-TETRACONTANE	22.053	968262	11.009 ug/ml

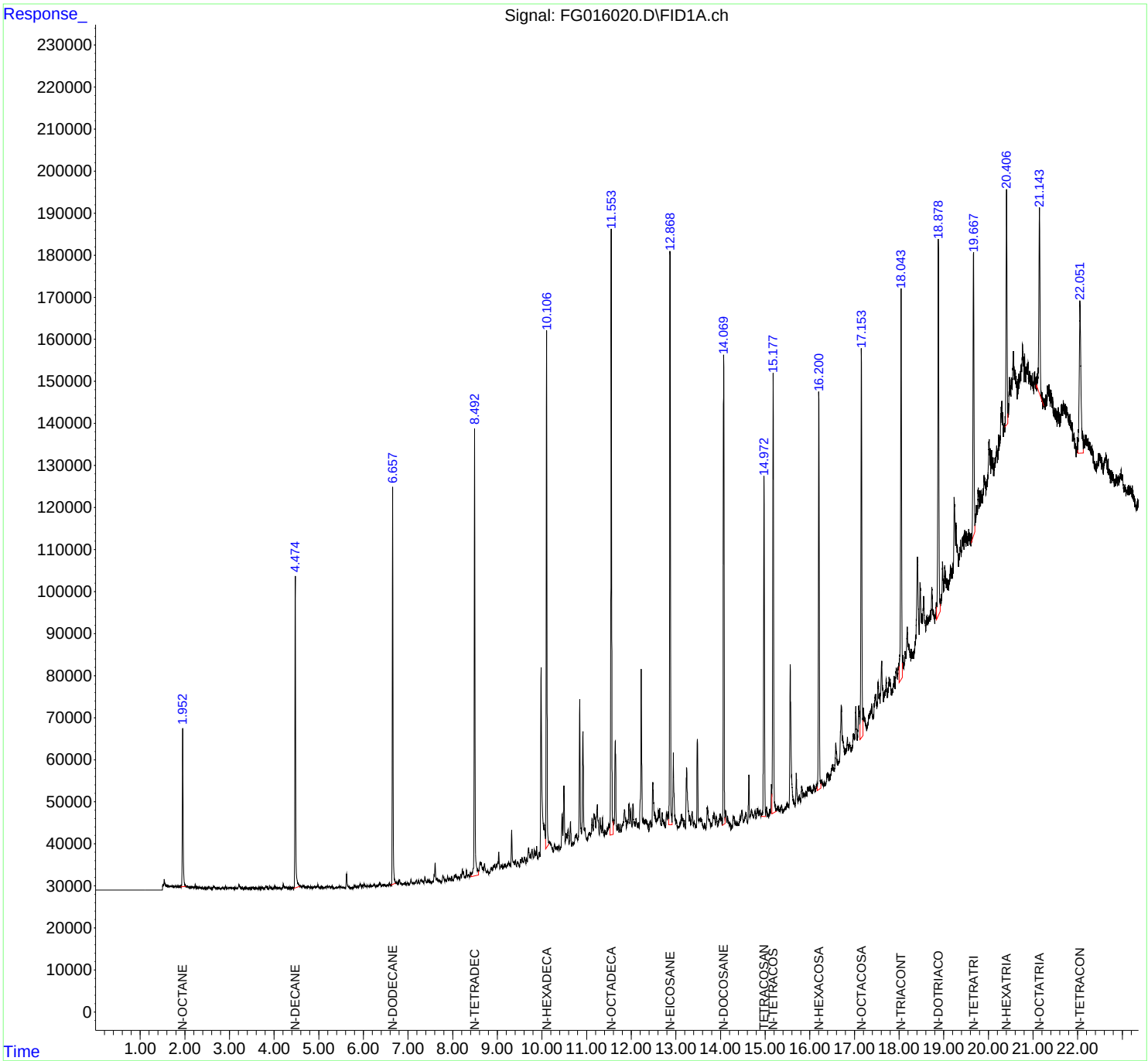
(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG061025\
Data File : FG016020.D
Signal(s) : FID1A.ch
Acq On : 10 Jun 2025 20:01
Operator : YP\AJ
Sample : Q2246-01MSD
Misc :
ALS Vial : 35 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
BU-03-060525MSD

Integration File: autoint1.e
Quant Time: Jun 11 05:54:45 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG052225.M
Quant Title :
QLast Update : Thu May 22 06:20:25 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal Phase : Rxi-1ms
Signal Info : 20mx0.18mmx0.18um



rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG061025\
Data File : FG016020.D
Signal(s) : FID1A.ch
Acq On : 10 Jun 2025 20:01
Sample : Q2246-01MSD
Misc :
ALS Vial : 35 Sample Multiplier: 1

Integration File: Sample.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG052225.M
Title :

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	1.952	1.900	2.055	BV	37668	463806	14.25%	0.528%
2	2.057	2.055	2.112	VV	199	3789	0.12%	0.004%
3	2.118	2.112	2.129	VV	136	746	0.02%	0.001%
4	2.140	2.129	2.204	PV	134	3533	0.11%	0.004%
5	2.209	2.204	2.214	VV	84	390	0.01%	0.000%
6	2.233	2.214	2.270	VV	646	8944	0.27%	0.010%
7	2.291	2.270	2.328	VV	215	4066	0.12%	0.005%
8	2.330	2.328	2.392	PV	111	2190	0.07%	0.002%
9	2.395	2.392	2.492	VB	103	2456	0.08%	0.003%
10	2.528	2.494	2.541	BV	278	3854	0.12%	0.004%
11	2.545	2.541	2.577	VV	243	3241	0.10%	0.004%
12	2.582	2.577	2.594	VV	156	983	0.03%	0.001%
13	2.598	2.594	2.608	VV	138	723	0.02%	0.001%
14	2.613	2.608	2.616	PV	114	360	0.01%	0.000%
15	2.643	2.616	2.709	VV	594	16916	0.52%	0.019%
16	2.717	2.709	2.734	VV	177	2177	0.07%	0.002%
17	2.753	2.734	2.807	VV	272	6862	0.21%	0.008%
18	2.848	2.807	2.892	VV	274	7202	0.22%	0.008%
19	2.914	2.892	2.942	VV	442	7925	0.24%	0.009%
20	2.949	2.942	2.968	VV	180	2141	0.07%	0.002%
21	2.991	2.968	3.009	VV	289	5465	0.17%	0.006%
22	3.013	3.009	3.031	VV	191	2187	0.07%	0.002%
23	3.036	3.031	3.049	VV	177	1314	0.04%	0.001%
24	3.069	3.049	3.074	VV	160	1702	0.05%	0.002%
25	3.079	3.074	3.129	VV	177	3654	0.11%	0.004%
26	3.156	3.129	3.161	VV	165	2214	0.07%	0.003%
27	3.166	3.161	3.176	VV	147	916	0.03%	0.001%
28	3.184	3.176	3.190	VV	139	1033	0.03%	0.001%
29	3.213	3.190	3.249	VV	1025	17862	0.55%	0.020%
30	3.257	3.249	3.261	VV	232	1414	0.04%	0.002%
31	3.266	3.261	3.314	VV	292	4790	0.15%	0.005%
32	3.334	3.314	3.339	VV	271	2386	0.07%	0.003%
33	3.350	3.339	3.370	VV	219	3127	0.10%	0.004%
34	3.384	3.370	3.406	VV	205	2827	0.09%	0.003%
35	3.432	3.406	3.437	VV	205	2481	0.08%	0.003%
36	3.451	3.437	3.479	VV	192	3213	0.10%	0.004%

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37	3.497	3.479	3.502	VV	379	1804	0.06%	0.002%
38	3.526	3.502	3.594	VV	305	8394	0.26%	0.010%
39	3.611	3.594	3.624	VV	182	2164	0.07%	0.002%
40	3.630	3.624	3.637	VV	56	356	0.01%	0.000%
41	3.658	3.637	3.699	VV	295	5448	0.17%	0.006%
42	3.712	3.699	3.726	VV	224	2702	0.08%	0.003%
43	3.737	3.726	3.742	VV	272	1998	0.06%	0.002%
44	3.747	3.742	3.762	VV	219	1970	0.06%	0.002%
45	3.772	3.762	3.783	VV	143	1165	0.04%	0.001%
46	3.813	3.783	3.884	VV	464	14210	0.44%	0.016%
47	3.907	3.884	3.927	VV	466	6849	0.21%	0.008%
48	3.934	3.927	3.953	VV	281	2651	0.08%	0.003%
49	3.959	3.953	3.981	VV	114	1174	0.04%	0.001%
50	3.990	3.981	3.996	VV	179	1447	0.04%	0.002%
51	4.013	3.996	4.027	VV	622	7445	0.23%	0.008%
52	4.045	4.027	4.069	VV	452	6548	0.20%	0.007%
53	4.071	4.069	4.086	VV	200	1456	0.04%	0.002%
54	4.092	4.086	4.109	VV	245	1865	0.06%	0.002%
55	4.125	4.109	4.146	VV	355	4112	0.13%	0.005%
56	4.151	4.146	4.166	PV	96	346	0.01%	0.000%
57	4.207	4.166	4.234	VV	990	18104	0.56%	0.021%
58	4.239	4.234	4.264	VV	397	5823	0.18%	0.007%
59	4.267	4.264	4.272	VV	254	1048	0.03%	0.001%
60	4.281	4.272	4.297	VV	245	2994	0.09%	0.003%
61	4.312	4.297	4.326	VV	198	2192	0.07%	0.002%
62	4.332	4.326	4.337	VV	91	564	0.02%	0.001%
63	4.360	4.337	4.397	VV	269	4388	0.13%	0.005%
64	4.413	4.397	4.439	VV	324	4270	0.13%	0.005%
65	4.474	4.439	4.574	VV	74377	887783	27.28%	1.011%
66	4.580	4.574	4.620	VV	641	14647	0.45%	0.017%
67	4.650	4.620	4.714	VV	713	27184	0.84%	0.031%
68	4.717	4.714	4.743	VV	349	5714	0.18%	0.007%
69	4.761	4.743	4.771	VV	682	7826	0.24%	0.009%
70	4.782	4.771	4.799	VV	491	6376	0.20%	0.007%
71	4.803	4.799	4.808	VV	337	1713	0.05%	0.002%
72	4.813	4.808	4.829	VV	411	4611	0.14%	0.005%
73	4.840	4.829	4.858	VV	397	4993	0.15%	0.006%
74	4.875	4.858	4.887	VV	380	4662	0.14%	0.005%
75	4.910	4.887	4.927	VV	537	9908	0.30%	0.011%
76	4.943	4.927	4.964	VV	514	9149	0.28%	0.010%
77	4.982	4.964	5.035	VV	993	19602	0.60%	0.022%
78	5.062	5.035	5.081	VV	397	7786	0.24%	0.009%
79	5.091	5.081	5.122	VV	325	4710	0.14%	0.005%
80	5.154	5.122	5.169	VV	412	7878	0.24%	0.009%
81	5.190	5.169	5.216	VV	699	11229	0.35%	0.013%
82	5.234	5.216	5.251	VV	632	9386	0.29%	0.011%
83	5.255	5.251	5.271	VV	375	4161	0.13%	0.005%
84	5.276	5.271	5.287	VV	444	3768	0.12%	0.004%
85	5.300	5.287	5.331	VV	558	8746	0.27%	0.010%
86	5.336	5.331	5.339	VV	130	487	0.01%	0.001%
87	5.351	5.339	5.359	VV	148	1602	0.05%	0.002%
88	5.397	5.359	5.411	VV	387	7394	0.23%	0.008%
89	5.421	5.411	5.431	VV	306	2903	0.09%	0.003%

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90	5.457	5.431	5.479	VV	575	10827	0.33%	0.012%
91	5.496	5.479	5.511	VV	548	8284	0.25%	0.009%
92	5.516	5.511	5.527	VV	329	2750	0.08%	0.003%
93	5.536	5.527	5.547	VV	297	2804	0.09%	0.003%
94	5.559	5.547	5.572	VV	335	3574	0.11%	0.004%
95	5.578	5.572	5.599	VV	200	2185	0.07%	0.002%
96	5.624	5.599	5.724	PV	3551	60050	1.85%	0.068%
97	5.738	5.724	5.762	VV	175	2770	0.09%	0.003%
98	5.797	5.762	5.810	VV	757	9532	0.29%	0.011%
99	5.825	5.810	5.845	VV	422	6512	0.20%	0.007%
100	5.857	5.845	5.870	VV	271	3409	0.10%	0.004%
101	5.881	5.870	5.896	VV	385	4377	0.13%	0.005%
102	5.923	5.896	5.961	VV	904	21494	0.66%	0.024%
103	5.981	5.961	5.994	VV	340	5928	0.18%	0.007%
104	6.015	5.994	6.069	VV	810	19267	0.59%	0.022%
105	6.075	6.069	6.084	VV	342	2214	0.07%	0.003%
106	6.100	6.084	6.119	VV	576	6737	0.21%	0.008%
107	6.126	6.119	6.134	VV	250	1517	0.05%	0.002%
108	6.153	6.134	6.173	VV	452	6345	0.19%	0.007%
109	6.188	6.173	6.194	VV	262	2997	0.09%	0.003%
110	6.239	6.194	6.279	VV	609	17902	0.55%	0.020%
111	6.298	6.279	6.315	VV	544	6033	0.19%	0.007%
112	6.344	6.315	6.347	VV	518	5777	0.18%	0.007%
113	6.367	6.347	6.406	VV	950	18272	0.56%	0.021%
114	6.426	6.406	6.436	VV	415	4319	0.13%	0.005%
115	6.445	6.436	6.455	VV	333	3080	0.09%	0.004%
116	6.474	6.455	6.502	VV	521	8360	0.26%	0.010%
117	6.508	6.502	6.510	PV	64	114	0.00%	0.000%
118	6.542	6.510	6.556	VV	318	6229	0.19%	0.007%
119	6.582	6.556	6.631	VV	592	14094	0.43%	0.016%
120	6.657	6.631	6.724	VV	95005	1053666	32.37%	1.200%
121	6.744	6.724	6.764	VV	766	15784	0.48%	0.018%
122	6.779	6.764	6.791	VV	806	9976	0.31%	0.011%
123	6.810	6.791	6.836	VV	1352	22138	0.68%	0.025%
124	6.845	6.836	6.873	VV	502	8534	0.26%	0.010%
125	6.915	6.873	6.929	VV	522	10647	0.33%	0.012%
126	6.943	6.929	6.969	VV	689	8648	0.27%	0.010%
127	6.984	6.969	7.009	VV	537	7661	0.24%	0.009%
128	7.017	7.009	7.032	VV	262	2662	0.08%	0.003%
129	7.067	7.032	7.097	PV	1334	23105	0.71%	0.026%
130	7.109	7.097	7.130	VV	458	6504	0.20%	0.007%
131	7.152	7.130	7.162	VV	545	7033	0.22%	0.008%
132	7.189	7.162	7.210	VV	1028	17397	0.53%	0.020%
133	7.233	7.210	7.261	VV	994	14945	0.46%	0.017%
134	7.296	7.261	7.327	VV	859	25481	0.78%	0.029%
135	7.338	7.327	7.355	VV	726	7855	0.24%	0.009%
136	7.379	7.355	7.419	VV	1609	28656	0.88%	0.033%
137	7.444	7.419	7.462	VV	943	13063	0.40%	0.015%
138	7.476	7.462	7.494	VV	726	8936	0.27%	0.010%
139	7.507	7.494	7.526	VV	408	4148	0.13%	0.005%
140	7.609	7.526	7.632	VV	4729	88353	2.71%	0.101%
141	7.646	7.632	7.676	VV	895	18767	0.58%	0.021%

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142	7.691	7.676	7.729	VV	612	11035	0.34%	0.013%
143	7.734	7.729	7.747	VV	173	1185	0.04%	0.001%
144	7.783	7.747	7.821	PV	1693	34344	1.06%	0.039%
145	7.837	7.821	7.859	VV	501	7634	0.23%	0.009%
146	7.889	7.859	7.912	PV	1293	19056	0.59%	0.022%
147	7.930	7.912	7.961	VV	732	14790	0.45%	0.017%
148	7.979	7.961	8.014	VV	1151	12927	0.40%	0.015%
149	8.038	8.014	8.050	PV	1181	14887	0.46%	0.017%
150	8.066	8.050	8.105	VV	1375	30450	0.94%	0.035%
151	8.137	8.105	8.154	VV	669	15225	0.47%	0.017%
152	8.183	8.154	8.199	VV	1198	16601	0.51%	0.019%
153	8.219	8.199	8.232	VV	2352	29371	0.90%	0.033%
154	8.243	8.232	8.266	VV	1787	22012	0.68%	0.025%
155	8.278	8.266	8.291	VV	560	5642	0.17%	0.006%
156	8.311	8.291	8.338	VV	2030	28523	0.88%	0.032%
157	8.358	8.338	8.382	VV	785	13959	0.43%	0.016%
158	8.399	8.382	8.414	VV	1283	15108	0.46%	0.017%
159	8.429	8.414	8.439	VV	1037	13410	0.41%	0.015%
160	8.493	8.439	8.559	VV	106370	1265528	38.88%	1.441%
161	8.566	8.559	8.582	VV	1554	19236	0.59%	0.022%
162	8.613	8.582	8.632	VV	3195	70699	2.17%	0.081%
163	8.641	8.632	8.665	VV	3113	48453	1.49%	0.055%
164	8.677	8.665	8.692	VV	1967	26263	0.81%	0.030%
165	8.714	8.692	8.756	VV	2684	58214	1.79%	0.066%
166	8.784	8.756	8.809	VV	898	19643	0.60%	0.022%
167	8.820	8.809	8.836	VV	422	4804	0.15%	0.005%
168	8.867	8.836	8.898	VV	1319	38052	1.17%	0.043%
169	8.917	8.898	8.932	VV	1827	30287	0.93%	0.034%
170	8.944	8.932	8.964	VV	2098	30965	0.95%	0.035%
171	8.983	8.964	8.994	VV	2055	29733	0.91%	0.034%
172	9.034	8.994	9.061	VV	4758	101154	3.11%	0.115%
173	9.085	9.061	9.098	VV	1668	27806	0.85%	0.032%
174	9.109	9.098	9.129	VV	1609	20839	0.64%	0.024%
175	9.181	9.129	9.199	VV	1699	53651	1.65%	0.061%
176	9.254	9.199	9.281	VV	1868	70301	2.16%	0.080%
177	9.323	9.281	9.359	VV	9474	159997	4.92%	0.182%
178	9.366	9.359	9.385	VV	1890	24464	0.75%	0.028%
179	9.407	9.385	9.432	VV	2180	41121	1.26%	0.047%
180	9.453	9.432	9.497	VV	1583	44058	1.35%	0.050%
181	9.523	9.497	9.537	VV	2152	32835	1.01%	0.037%
182	9.553	9.537	9.587	VV	2460	55916	1.72%	0.064%
183	9.609	9.587	9.641	VV	2411	58987	1.81%	0.067%
184	9.656	9.641	9.670	VV	2156	29244	0.90%	0.033%
185	9.699	9.670	9.731	VV	4571	108680	3.34%	0.124%
186	9.744	9.731	9.757	VV	2866	39341	1.21%	0.045%
187	9.780	9.757	9.808	VV	3987	91408	2.81%	0.104%
188	9.831	9.808	9.851	VV	3790	73248	2.25%	0.083%
189	9.883	9.851	9.914	VV	4431	105828	3.25%	0.120%
190	9.936	9.914	9.955	VV	2987	57572	1.77%	0.066%
191	9.982	9.955	10.042	VV	46406	936044	28.76%	1.066%
192	10.054	10.042	10.081	VV	9340	185251	5.69%	0.211%
193	10.106	10.081	10.172	VV	126756	1620038	49.78%	1.845%
194	10.179	10.172	10.251	VV	4952	186735	5.74%	0.213%

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195	10.281	10.251	10.309	VV	4303	118371	3.64%	0.135%
196	10.315	10.309	10.324	VV	3127	28509	0.88%	0.032%
197	10.341	10.324	10.363	VV	3572	75602	2.32%	0.086%
198	10.381	10.363	10.401	VV	3608	72491	2.23%	0.083%
199	10.452	10.401	10.470	VV	11077	234555	7.21%	0.267%
200	10.494	10.470	10.523	VV	17679	329541	10.13%	0.375%
201	10.546	10.523	10.565	VV	6262	135688	4.17%	0.154%
202	10.585	10.565	10.611	VV	7259	153469	4.72%	0.175%
203	10.640	10.611	10.667	VV	8824	189444	5.82%	0.216%
204	10.698	10.667	10.707	VV	3784	84453	2.59%	0.096%
205	10.748	10.707	10.762	VV	5250	145612	4.47%	0.166%
206	10.776	10.762	10.804	VV	5714	124529	3.83%	0.142%
207	10.848	10.804	10.887	VV	37688	644335	19.80%	0.734%
208	10.919	10.887	10.947	VV	29864	539174	16.57%	0.614%
209	10.963	10.947	11.012	VV	6605	205028	6.30%	0.233%
210	11.061	11.012	11.079	VV	5469	191421	5.88%	0.218%
211	11.126	11.079	11.147	VV	8652	257648	7.92%	0.293%
212	11.171	11.147	11.207	VV	9701	292867	9.00%	0.333%
213	11.239	11.207	11.286	VV	11803	385529	11.85%	0.439%
214	11.304	11.286	11.341	VV	8563	213841	6.57%	0.243%
215	11.357	11.341	11.394	VV	8450	189133	5.81%	0.215%
216	11.415	11.394	11.442	VV	5367	138323	4.25%	0.157%
217	11.501	11.442	11.521	VV	6422	264562	8.13%	0.301%
218	11.554	11.521	11.613	VV	147996	2005100	61.61%	2.283%
219	11.643	11.613	11.691	VV	26116	553333	17.00%	0.630%
220	11.708	11.691	11.734	VV	6252	137121	4.21%	0.156%
221	11.752	11.734	11.774	VV	6162	121334	3.73%	0.138%
222	11.849	11.774	11.892	VV	9226	468574	14.40%	0.534%
223	11.911	11.892	11.922	VV	6548	107630	3.31%	0.123%
224	11.950	11.922	11.974	VV	10580	250719	7.70%	0.285%
225	11.988	11.974	12.016	VV	9295	178824	5.49%	0.204%
226	12.040	12.016	12.090	VV	10397	301670	9.27%	0.343%
227	12.109	12.090	12.144	VV	6852	187618	5.76%	0.214%
228	12.161	12.144	12.176	VV	5394	98540	3.03%	0.112%
229	12.226	12.176	12.259	VV	42099	773843	23.78%	0.881%
230	12.266	12.259	12.283	VV	6524	86303	2.65%	0.098%
231	12.295	12.283	12.312	VV	6041	100059	3.07%	0.114%
232	12.326	12.312	12.344	VV	6162	107629	3.31%	0.123%
233	12.352	12.344	12.397	VV	5563	146570	4.50%	0.167%
234	12.425	12.397	12.451	VV	5334	147186	4.52%	0.168%
235	12.484	12.451	12.557	VV	14583	504787	15.51%	0.575%
236	12.566	12.557	12.586	VV	5687	93814	2.88%	0.107%
237	12.609	12.586	12.623	VV	7545	145854	4.48%	0.166%
238	12.639	12.623	12.676	VV	8232	189185	5.81%	0.215%
239	12.692	12.676	12.769	VV	7010	271854	8.35%	0.310%
240	12.791	12.769	12.807	VV	6848	125047	3.84%	0.142%
241	12.823	12.807	12.838	VV	6881	109485	3.36%	0.125%
242	12.868	12.838	12.912	VV	139816	1853756	56.96%	2.111%
243	12.943	12.912	12.995	VV	20846	474672	14.58%	0.540%
244	13.012	12.995	13.039	VV	4717	98794	3.04%	0.112%
245	13.046	13.039	13.061	VV	2962	37799	1.16%	0.043%
246	13.123	13.061	13.147	VV	5841	210891	6.48%	0.240%

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247	13.156	13.147	13.175	VV	4562	66445	2.04%	0.076%
248	13.191	13.175	13.214	VV	4256	79468	2.44%	0.090%
249	13.240	13.214	13.297	VV	16572	432403	13.29%	0.492%
250	13.312	13.297	13.337	VV	5066	96451	2.96%	0.110%
251	13.364	13.337	13.394	VV	6030	146601	4.50%	0.167%
252	13.410	13.394	13.444	VV	3530	85298	2.62%	0.097%
253	13.482	13.444	13.515	VV	22959	359480	11.05%	0.409%
254	13.526	13.515	13.537	VV	3693	49040	1.51%	0.056%
255	13.550	13.537	13.566	VV	4229	63868	1.96%	0.073%
256	13.574	13.566	13.627	VV	3658	96498	2.96%	0.110%
257	13.645	13.627	13.676	VV	2730	54468	1.67%	0.062%
258	13.707	13.676	13.741	VV	6417	162724	5.00%	0.185%
259	13.747	13.741	13.777	VV	3393	60975	1.87%	0.069%
260	13.791	13.777	13.805	VV	2288	32850	1.01%	0.037%
261	13.843	13.805	13.851	VV	3777	84636	2.60%	0.096%
262	13.860	13.851	13.884	VV	4437	68326	2.10%	0.078%
263	13.903	13.884	13.934	VV	3823	84670	2.60%	0.096%
264	13.987	13.934	14.041	VV	4300	177402	5.45%	0.202%
265	14.070	14.041	14.101	VV	111521	1461049	44.89%	1.664%
266	14.116	14.101	14.139	VV	4663	80394	2.47%	0.092%
267	14.155	14.139	14.205	VV	3296	82223	2.53%	0.094%
268	14.215	14.205	14.236	VV	1606	18193	0.56%	0.021%
269	14.250	14.236	14.257	PV	416	5240	0.16%	0.006%
270	14.301	14.257	14.326	VV	2857	76537	2.35%	0.087%
271	14.334	14.326	14.351	VV	1349	16796	0.52%	0.019%
272	14.365	14.351	14.383	VV	1351	18904	0.58%	0.022%
273	14.392	14.383	14.409	VV	801	10006	0.31%	0.011%
274	14.434	14.409	14.444	VV	2178	28153	0.87%	0.032%
275	14.478	14.444	14.517	VV	3703	97530	3.00%	0.111%
276	14.571	14.517	14.605	VV	2880	81851	2.51%	0.093%
277	14.634	14.605	14.657	VV	11399	160952	4.95%	0.183%
278	14.695	14.657	14.742	VV	3016	103993	3.20%	0.118%
279	14.776	14.742	14.802	VV	2397	59884	1.84%	0.068%
280	14.822	14.802	14.864	VV	2612	74896	2.30%	0.085%
281	14.885	14.864	14.914	VV	2267	46880	1.44%	0.053%
282	14.973	14.914	15.007	VV	81005	1121857	34.47%	1.277%
283	15.027	15.007	15.049	VV	2274	38008	1.17%	0.043%
284	15.066	15.049	15.079	VV	650	8544	0.26%	0.010%
285	15.103	15.079	15.119	VV	1790	26143	0.80%	0.030%
286	15.139	15.119	15.151	VV	7404	92813	2.85%	0.106%
287	15.177	15.151	15.254	VV	105039	1507891	46.33%	1.717%
288	15.268	15.254	15.286	VV	1723	24301	0.75%	0.028%
289	15.294	15.286	15.332	VV	1582	28868	0.89%	0.033%
290	15.366	15.332	15.401	VV	1887	39052	1.20%	0.044%
291	15.452	15.401	15.466	PV	1045	20408	0.63%	0.023%
292	15.495	15.466	15.526	VV	1775	38167	1.17%	0.043%
293	15.561	15.526	15.671	VV	34116	701792	21.56%	0.799%
294	15.697	15.671	15.734	PV	7285	113287	3.48%	0.129%
295	15.763	15.734	15.793	VV	1704	34192	1.05%	0.039%
296	15.819	15.793	15.843	VV	3594	61886	1.90%	0.070%
297	15.857	15.843	15.894	VV	1589	34748	1.07%	0.040%
298	15.913	15.894	15.930	VV	1281	23167	0.71%	0.026%
299	15.956	15.930	15.984	VV	2357	50186	1.54%	0.057%

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300	15.991	15.984	16.061	VV	2167	55909	1.72%	0.064%
301	16.087	16.061	16.122	VV	1837	42431	1.30%	0.048%
302	16.201	16.122	16.250	VV	94556	1276108	39.21%	1.453%
303	16.267	16.250	16.308	VV	1802	35796	1.10%	0.041%
304	16.326	16.308	16.352	VV	863	13423	0.41%	0.015%
305	16.397	16.352	16.439	PV	2283	62465	1.92%	0.071%
306	16.511	16.439	16.549	PV	2556	92208	2.83%	0.105%
307	16.582	16.549	16.651	VV	6377	175039	5.38%	0.199%
308	16.705	16.651	16.784	VV	13024	450652	13.85%	0.513%
309	16.798	16.784	16.811	VV	2244	28047	0.86%	0.032%
310	16.841	16.811	16.860	VV	4734	84340	2.59%	0.096%
311	16.894	16.860	16.929	VV	1997	61280	1.88%	0.070%
312	16.977	16.929	17.009	PV	3576	94216	2.89%	0.107%
313	17.028	17.009	17.063	VV	9199	152221	4.68%	0.173%
314	17.098	17.063	17.121	VV	8389	179642	5.52%	0.205%
315	17.154	17.121	17.189	VV	91790	1343149	41.27%	1.529%
316	17.199	17.189	17.272	VV	6371	171874	5.28%	0.196%
317	17.388	17.272	17.414	VV	4764	208033	6.39%	0.237%
318	17.477	17.414	17.500	VV	5739	188254	5.78%	0.214%
319	17.530	17.500	17.573	VV	7999	215831	6.63%	0.246%
320	17.607	17.573	17.651	VV	10855	289346	8.89%	0.329%
321	17.678	17.651	17.691	VV	3723	71617	2.20%	0.082%
322	17.712	17.691	17.744	VV	6125	115207	3.54%	0.131%
323	17.776	17.744	17.790	VV	5683	104459	3.21%	0.119%
324	17.799	17.790	17.842	VV	4526	78479	2.41%	0.089%
325	17.891	17.842	17.911	VV	3610	91947	2.83%	0.105%
326	17.936	17.911	17.965	VV	5300	129588	3.98%	0.148%
327	18.044	17.965	18.074	VV	93909	1551080	47.66%	1.766%
328	18.082	18.074	18.107	VV	6534	96225	2.96%	0.110%
329	18.136	18.107	18.154	VV	6355	148568	4.56%	0.169%
330	18.182	18.154	18.244	VV	12029	402029	12.35%	0.458%
331	18.255	18.244	18.264	VV	4802	48963	1.50%	0.056%
332	18.275	18.264	18.291	VV	5054	67079	2.06%	0.076%
333	18.297	18.291	18.330	VV	3807	86627	2.66%	0.099%
334	18.409	18.330	18.447	VV	25456	787867	24.21%	0.897%
335	18.473	18.447	18.516	VV	18080	493838	15.17%	0.562%
336	18.551	18.516	18.601	VV	14010	476220	14.63%	0.542%
337	18.624	18.601	18.654	VV	8112	227737	7.00%	0.259%
338	18.673	18.654	18.686	VV	7322	131872	4.05%	0.150%
339	18.733	18.686	18.801	VV	13450	550635	16.92%	0.627%
340	18.879	18.801	18.929	VV	93627	1780261	54.70%	2.027%
341	18.974	18.929	19.002	VV	16339	451852	13.88%	0.514%
342	19.024	19.002	19.057	VV	14739	384263	11.81%	0.438%
343	19.070	19.057	19.087	VV	10624	174160	5.35%	0.198%
344	19.150	19.087	19.164	VV	12230	462467	14.21%	0.527%
345	19.171	19.164	19.194	VV	11536	192948	5.93%	0.220%
346	19.203	19.194	19.212	VV	12599	124624	3.83%	0.142%
347	19.237	19.212	19.266	VV	26747	651077	20.00%	0.741%
348	19.276	19.266	19.297	VV	20917	342365	10.52%	0.390%
349	19.306	19.297	19.332	VV	15619	279756	8.60%	0.319%
350	19.376	19.332	19.391	VV	15812	454381	13.96%	0.517%
351	19.417	19.391	19.429	VV	15776	321645	9.88%	0.366%

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352	19.443	19.429	19.451	VV	15150	197060	6.05%	0.224%
353	19.469	19.451	19.499	VV	16667	425173	13.06%	0.484%
354	19.508	19.499	19.531	VV	15617	277463	8.53%	0.316%
355	19.559	19.531	19.572	VV	15079	357996	11.00%	0.408%
356	19.578	19.572	19.592	VV	14512	155584	4.78%	0.177%
357	19.600	19.592	19.607	VV	13238	113981	3.50%	0.130%
358	19.666	19.607	19.704	VV	79419	1822158	55.99%	2.075%
359	19.710	19.704	19.718	VV	16899	135521	4.16%	0.154%
360	19.774	19.718	19.806	VV	22633	997906	30.66%	1.136%
361	19.816	19.806	19.827	VV	20270	251601	7.73%	0.286%
362	19.843	19.827	19.867	VV	20464	469854	14.44%	0.535%
363	19.903	19.867	19.947	VV	23475	1004877	30.88%	1.144%
364	20.015	19.947	20.036	VV	29746	1295303	39.80%	1.475%
365	20.044	20.036	20.055	VV	27504	296560	9.11%	0.338%
366	20.072	20.055	20.126	VV	27505	1017413	31.26%	1.158%
367	20.187	20.126	20.204	VV	25521	1124888	34.56%	1.281%
368	20.230	20.204	20.241	VV	28465	577231	17.74%	0.657%
369	20.299	20.241	20.337	VV	34842	1766927	54.29%	2.012%
370	20.406	20.337	20.446	VV	83998	2717806	83.51%	3.095%
371	20.476	20.446	20.504	VV	38780	1235050	37.95%	1.406%
372	20.562	20.504	20.591	VV	42358	2013583	61.87%	2.293%
373	20.603	20.591	20.647	VV	38855	1216891	37.39%	1.386%
374	20.676	20.647	20.686	VV	36153	807485	24.81%	0.919%
375	20.767	20.686	20.803	VV	41991	2637456	81.04%	3.003%
376	20.814	20.803	20.837	VV	39782	741052	22.77%	0.844%
377	20.888	20.837	20.912	VV	36574	1576319	48.43%	1.795%
378	20.924	20.912	20.981	VV	33599	1319127	40.53%	1.502%
379	20.986	20.981	21.019	VV	32222	690903	21.23%	0.787%
380	21.026	21.019	21.067	VV	32233	876186	26.92%	0.998%
381	21.075	21.067	21.084	VV	30594	294687	9.05%	0.336%
382	21.144	21.084	21.246	VV	69425	3254576	100.00%	3.706%
383	21.256	21.246	21.273	VV	22612	348021	10.69%	0.396%
384	21.288	21.273	21.311	VV	23182	495017	15.21%	0.564%
385	21.358	21.311	21.384	VV	24065	1010490	31.05%	1.151%
386	21.404	21.384	21.432	VV	22721	597188	18.35%	0.680%
387	21.441	21.432	21.469	VV	20550	399773	12.28%	0.455%
388	21.480	21.469	21.498	VV	17741	276921	8.51%	0.315%
389	21.513	21.498	21.544	VV	16872	421526	12.95%	0.480%
390	21.561	21.544	21.595	VV	15975	438011	13.46%	0.499%
391	21.606	21.595	21.613	VV	13579	136004	4.18%	0.155%
392	21.643	21.613	21.664	VV	16195	434626	13.35%	0.495%
393	21.680	21.664	21.694	VV	16202	269694	8.29%	0.307%
394	21.705	21.694	21.715	VV	14765	175705	5.40%	0.200%
395	21.726	21.715	21.740	VV	14430	202785	6.23%	0.231%
396	21.753	21.740	21.786	VV	12944	338977	10.42%	0.386%
397	21.789	21.786	21.812	VV	10895	162727	5.00%	0.185%
398	21.829	21.812	21.862	VV	11058	268444	8.25%	0.306%
399	21.874	21.862	21.902	VV	7837	150964	4.64%	0.172%
400	21.920	21.902	21.966	VV	5250	110987	3.41%	0.126%
401	21.991	21.966	22.004	PV	3139	24241	0.74%	0.028%
402	22.053	22.004	22.071	PBA	20152	370454	11.38%	0.422%

Sum of corrected areas: 87824631

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FG052225.M Wed Jun 11 07:13:59 2025

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

Manual Integration Report

Sample ID	ClientId ID	File ID	Sequence ID	Parameter	Supervised By	Supervised On	Reason
5 TRPH STD		FG015890.D	FG052225	N-TETRACONTANE	mohammad	5/23/2025 5:16:45 AM	Peak Integrated by Software incorrectly

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

Manual Integration Report

Sample ID	ClientId ID	File ID	Sequence ID	Parameter	Supervised By	Supervised On	Reason
Q2147-01		FG016006.D	FG061025	TETRACOSANE-d50 (SURROGA	mohammad	6/12/2025 3:34:17 AM	Peak Integrated by Software incorrectly
Q2126-04		FG016013.D	FG061025	N-OCTADECANE	mohammad	6/12/2025 3:34:17 AM	Peak Integrated by Software incorrectly
Q2126-04		FG016013.D	FG061025	N-OCTANE	mohammad	6/12/2025 3:34:17 AM	Peak Integrated by Software incorrectly
Q2126-04		FG016013.D	FG061025	N-TETRACOSANE	mohammad	6/12/2025 3:34:17 AM	Peak Integrated by Software incorrectly
Q2126-04		FG016014.D	FG061025	N-DECANE	mohammad	6/12/2025 3:34:17 AM	Peak Integrated by Software incorrectly
Q2126-04		FG016014.D	FG061025	N-DODECANE	mohammad	6/12/2025 3:34:17 AM	Peak Integrated by Software incorrectly
Q2126-04		FG016014.D	FG061025	N-TETRADECANE	mohammad	6/12/2025 3:34:17 AM	Peak Integrated by Software incorrectly
Q2198-03		FG016017.D	FG061025	TETRACOSANE-d50 (SURROGA	mohammad	6/12/2025 3:34:17 AM	Peak Integrated by Software incorrectly
Q2246-01		FG016018.D	FG061025	TETRACOSANE-d50 (SURROGA	mohammad	6/12/2025 3:34:17 AM	Peak Integrated by Software incorrectly
Q2126-10		FG016024.D	FG061025	N-DECANE	mohammad	6/12/2025 3:34:17 AM	Peak Integrated by Software incorrectly
Q2126-10		FG016024.D	FG061025	N-DOCOSANE	mohammad	6/12/2025 3:34:17 AM	Peak Integrated by Software incorrectly
Q2126-10		FG016024.D	FG061025	N-DODECANE	mohammad	6/12/2025 3:34:17 AM	Peak Integrated by Software incorrectly
Q2126-10		FG016024.D	FG061025	N-HEXADECANE	mohammad	6/12/2025 3:34:17 AM	Peak Integrated by Software incorrectly
Q2126-10		FG016024.D	FG061025	N-OCTADECANE	mohammad	6/12/2025 3:34:17 AM	Peak Integrated by Software incorrectly
Q2126-10		FG016024.D	FG061025	N-OCTATRIACONTANE	mohammad	6/12/2025 3:34:17 AM	Peak Integrated by Software incorrectly
Q2126-10		FG016024.D	FG061025	N-TETRACONTANE	mohammad	6/12/2025 3:34:17 AM	Peak Integrated by Software incorrectly
Q2126-10		FG016024.D	FG061025	N-TETRADECANE	mohammad	6/12/2025 3:34:17 AM	Peak Integrated by Software incorrectly
Q2126-10		FG016025.D	FG061025	N-DODECANE	mohammad	6/12/2025 3:34:17 AM	Peak Integrated by Software incorrectly
Q2126-10		FG016025.D	FG061025	N-TETRACONTANE	mohammad	6/12/2025 3:34:17 AM	Peak Integrated by Software incorrectly
Q2126-01		FG016034.D	FG061025	N-DECANE	mohammad	6/12/2025 3:34:17 AM	Peak Integrated by Software incorrectly
Q2126-01		FG016034.D	FG061025	N-DODECANE	mohammad	6/12/2025 3:34:17 AM	Peak Integrated by Software incorrectly
Q2126-01		FG016034.D	FG061025	N-HEXADECANE	mohammad	6/12/2025 3:34:17 AM	Peak Integrated by Software incorrectly

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Manual Integration Report

Q2126-01		FG016034.D	FG061025	N-TETRACOSANE	mohammad	6/12/2025 3:34:17 AM	Peak Integrated by Software incorrectly
Q2126-01		FG016034.D	FG061025	N-TETRADECANE	mohammad	6/12/2025 3:34:17 AM	Peak Integrated by Software incorrectly
Q2126-07		FG016037.D	FG061025	N-DECANE	mohammad	6/12/2025 3:34:17 AM	Peak Integrated by Software incorrectly
Q2126-07		FG016037.D	FG061025	N-DODECANE	mohammad	6/12/2025 3:34:17 AM	Peak Integrated by Software incorrectly
Q2126-07		FG016037.D	FG061025	N-HEXADECANE	mohammad	6/12/2025 3:34:17 AM	Peak Integrated by Software incorrectly
Q2126-07		FG016037.D	FG061025	N-TETRACOSANE	mohammad	6/12/2025 3:34:17 AM	Peak Integrated by Software incorrectly
Q2126-07		FG016037.D	FG061025	N-TETRADECANE	mohammad	6/12/2025 3:34:17 AM	Peak Integrated by Software incorrectly
Q2126-07		FG016038.D	FG061025	N-DECANE	mohammad	6/12/2025 3:34:17 AM	Peak Integrated by Software incorrectly
Q2126-07		FG016038.D	FG061025	N-DODECANE	mohammad	6/12/2025 3:34:17 AM	Peak Integrated by Software incorrectly

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Instrument ID: FID_G

Daily Analysis Runlog For Sequence/QCBatch ID # FG052225

Review By	yogesh	Review On	5/21/2025 1:58:58 PM		
Supervise By	mohammad	Supervise On	5/23/2025 5:16:45 AM		
SubDirectory	FG052225	HP Acquire Method		HP Processing Method	FG052225

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24467,PP24469,PP24470,PP24471,PP24472
CCC	
Internal Standard/PEM	
ICV/I.BLK	PP24468,PP24473
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	MECL2	FG015884.D	21 May 2025 20:34	YP\AJ	Ok
2	I.BLK	FG015885.D	21 May 2025 21:03	YP\AJ	Ok
3	100 TRPH STD	FG015886.D	21 May 2025 21:33	YP\AJ	Ok
4	50 TRPH STD	FG015887.D	21 May 2025 22:02	YP\AJ	Ok
5	20 TRPH STD	FG015888.D	21 May 2025 22:31	YP\AJ	Ok
6	10 TRPH STD	FG015889.D	21 May 2025 23:00	YP\AJ	Ok
7	5 TRPH STD	FG015890.D	21 May 2025 23:30	YP\AJ	Ok,M
8	FG052225ICV	FG015891.D	21 May 2025 23:59	YP\AJ	Ok
9	PP24596	FG015892.D	22 May 2025 00:58	YP\AJ	Ok

M : Manual Integration

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Instrument ID: FID_G

Daily Analysis Runlog For Sequence/QCBatch ID # FG061025

Review By	yogesh	Review On	6/10/2025 12:14:20 PM		
Supervise By	mohammad	Supervise On	6/12/2025 3:34:17 AM		
SubDirectory	FG061025	HP Acquire Method		HP Processing Method	FG052225

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24467,PP24469,PP24470,PP24471,PP24472
CCC	PP24469
Internal Standard/PEM	
ICV/I.BLK	PP24468,PP24473
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	MECL2	FG016000.D	10 Jun 2025 10:02	YP\AJ	Ok
2	I.BLK	FG016001.D	10 Jun 2025 10:32	YP\AJ	Ok
3	50 PPM TRPH STD	FG016002.D	10 Jun 2025 11:01	YP\AJ	Ok
4	RT MARKER	FG016003.D	10 Jun 2025 11:40	YP\AJ	Ok
5	PB168365BL	FG016004.D	10 Jun 2025 12:10	YP\AJ	Ok
6	PB168365BS	FG016005.D	10 Jun 2025 12:39	YP\AJ	Ok
7	Q2147-01	FG016006.D	10 Jun 2025 13:08	YP\AJ	Ok,M
8	Q2147-01MS	FG016007.D	10 Jun 2025 13:38	YP\AJ	Ok
9	Q2147-01MSD	FG016008.D	10 Jun 2025 14:07	YP\AJ	Ok
10	I.BLK	FG016009.D	10 Jun 2025 14:37	YP\AJ	Ok
11	50 PPM TRPH STD	FG016010.D	10 Jun 2025 15:06	YP\AJ	Ok
12	PB168382BL	FG016011.D	10 Jun 2025 15:36	YP\AJ	Ok
13	PB168382BS	FG016012.D	10 Jun 2025 16:05	YP\AJ	Ok
14	Q2126-04	FG016013.D	10 Jun 2025 16:35	YP\AJ	Ok,M
15	Q2126-04	FG016014.D	10 Jun 2025 17:04	YP\AJ	Ok,M
16	Q2126-05	FG016015.D	10 Jun 2025 17:33	YP\AJ	Ok
17	Q2198-01	FG016016.D	10 Jun 2025 18:03	YP\AJ	Ok
18	Q2198-03	FG016017.D	10 Jun 2025 18:32	YP\AJ	Ok,M
19	Q2246-01	FG016018.D	10 Jun 2025 19:02	YP\AJ	Ok,M
20	Q2246-01MS	FG016019.D	10 Jun 2025 19:31	YP\AJ	Ok
21	Q2246-01MSD	FG016020.D	10 Jun 2025 20:01	YP\AJ	Ok

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Instrument ID: FID_G

Daily Analysis Runlog For Sequence/QCBatch ID # FG061025

Review By	yogesh	Review On	6/10/2025 12:14:20 PM		
Supervise By	mohammad	Supervise On	6/12/2025 3:34:17 AM		
SubDirectory	FG061025	HP Acquire Method		HP Processing Method	FG052225

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24467,PP24469,PP24470,PP24471,PP24472
CCC	PP24469
Internal Standard/PEM	
ICV/I.BLK	PP24468,PP24473
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	I.BLK	FG016021.D	10 Jun 2025 20:30	YP\AJ	Ok
23	50 PPM TRPH STD	FG016022.D	10 Jun 2025 21:00	YP\AJ	Ok
24	PB168383BL	FG016023.D	10 Jun 2025 21:59	YP\AJ	Ok
25	Q2126-10	FG016024.D	10 Jun 2025 22:28	YP\AJ	Ok,M
26	Q2126-10	FG016025.D	10 Jun 2025 22:57	YP\AJ	Ok,M
27	Q2126-11	FG016026.D	10 Jun 2025 23:27	YP\AJ	Ok
28	I.BLK	FG016027.D	10 Jun 2025 23:56	YP\AJ	Ok
29	50 PPM TRPH STD	FG016028.D	11 Jun 2025 00:26	YP\AJ	Ok
30	I.BLK	FG016029.D	11 Jun 2025 01:24	YP\AJ	Ok
31	50 PPM TRPH STD	FG016030.D	11 Jun 2025 01:53	YP\AJ	Ok
32	RT MARKER	FG016031.D	11 Jun 2025 02:23	YP\AJ	Ok
33	PB168380BL	FG016032.D	11 Jun 2025 02:52	YP\AJ	Ok
34	PB168381BL	FG016033.D	11 Jun 2025 03:22	YP\AJ	Ok
35	Q2126-01	FG016034.D	11 Jun 2025 03:51	YP\AJ	Ok,M
36	Q2126-01	FG016035.D	11 Jun 2025 04:20	YP\AJ	Ok
37	Q2126-02	FG016036.D	11 Jun 2025 04:49	YP\AJ	Ok
38	Q2126-07	FG016037.D	11 Jun 2025 05:19	YP\AJ	Ok,M
39	Q2126-07	FG016038.D	11 Jun 2025 05:48	YP\AJ	Ok,M
40	Q2126-08	FG016039.D	11 Jun 2025 06:17	YP\AJ	Ok
41	I.BLK	FG016040.D	11 Jun 2025 06:46	YP\AJ	Ok
42	50 PPM TRPH STD	FG016041.D	11 Jun 2025 07:16	YP\AJ	Ok

M : Manual Integration

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Instrument ID: FID_G

Daily Analysis Runlog For Sequence/QCBatch ID # FG052225

Review By	yogesh	Review On	5/21/2025 1:58:58 PM		
Supervise By	mohammad	Supervise On	5/23/2025 5:16:45 AM		
SubDirectory	FG052225	HP Acquire Method		HP Processing Method	FG052225

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24467,PP24469,PP24470,PP24471,PP24472
CCC	
Internal Standard/PEM	
ICV/I.BLK	PP24468,PP24473
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	MECL2		FG015884.D	21 May 2025 20:34		YP\AJ	Ok
2	I.BLK		FG015885.D	21 May 2025 21:03		YP\AJ	Ok
3	100 TRPH STD		FG015886.D	21 May 2025 21:33		YP\AJ	Ok
4	50 TRPH STD		FG015887.D	21 May 2025 22:02		YP\AJ	Ok
5	20 TRPH STD		FG015888.D	21 May 2025 22:31		YP\AJ	Ok
6	10 TRPH STD		FG015889.D	21 May 2025 23:00		YP\AJ	Ok
7	5 TRPH STD		FG015890.D	21 May 2025 23:30		YP\AJ	Ok,M
8	FG052225ICV		FG015891.D	21 May 2025 23:59		YP\AJ	Ok
9	PP24596		FG015892.D	22 May 2025 00:58		YP\AJ	Ok

M : Manual Integration

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Instrument ID: FID_G

Daily Analysis Runlog For Sequence/QCBatch ID # FG061025

Review By	yogesh	Review On	6/10/2025 12:14:20 PM		
Supervise By	mohammad	Supervise On	6/12/2025 3:34:17 AM		
SubDirectory	FG061025	HP Acquire Method		HP Processing Method	FG052225

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24467,PP24469,PP24470,PP24471,PP24472
CCC	PP24469
Internal Standard/PEM	
ICV/I.BLK	PP24468,PP24473
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	MECL2		FG016000.D	10 Jun 2025 10:02		YP\AJ	Ok
2	I.BLK		FG016001.D	10 Jun 2025 10:32		YP\AJ	Ok
3	50 PPM TRPH STD		FG016002.D	10 Jun 2025 11:01		YP\AJ	Ok
4	RT MARKER		FG016003.D	10 Jun 2025 11:40		YP\AJ	Ok
5	PB168365BL		FG016004.D	10 Jun 2025 12:10		YP\AJ	Ok
6	PB168365BS		FG016005.D	10 Jun 2025 12:39		YP\AJ	Ok
7	Q2147-01		FG016006.D	10 Jun 2025 13:08		YP\AJ	Ok,M
8	Q2147-01MS		FG016007.D	10 Jun 2025 13:38		YP\AJ	Ok
9	Q2147-01MSD		FG016008.D	10 Jun 2025 14:07		YP\AJ	Ok
10	I.BLK		FG016009.D	10 Jun 2025 14:37		YP\AJ	Ok
11	50 PPM TRPH STD		FG016010.D	10 Jun 2025 15:06		YP\AJ	Ok
12	PB168382BL		FG016011.D	10 Jun 2025 15:36		YP\AJ	Ok
13	PB168382BS		FG016012.D	10 Jun 2025 16:05		YP\AJ	Ok
14	Q2126-04		FG016013.D	10 Jun 2025 16:35	1 PPM SOIL LOD	YP\AJ	Ok,M
15	Q2126-04		FG016014.D	10 Jun 2025 17:04	2.5 PPM SOIL LOD	YP\AJ	Ok,M
16	Q2126-05		FG016015.D	10 Jun 2025 17:33	5 PPM SOIL LOQ	YP\AJ	Ok
17	Q2198-01		FG016016.D	10 Jun 2025 18:03		YP\AJ	Ok
18	Q2198-03		FG016017.D	10 Jun 2025 18:32		YP\AJ	Ok,M

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Instrument ID: FID_G

Daily Analysis Runlog For Sequence/QCBatch ID # FG061025

Review By	yogesh	Review On	6/10/2025 12:14:20 PM		
Supervise By	mohammad	Supervise On	6/12/2025 3:34:17 AM		
SubDirectory	FG061025	HP Acquire Method		HP Processing Method	FG052225

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24467,PP24469,PP24470,PP24471,PP24472
CCC	PP24469
Internal Standard/PEM	
ICV/I.BLK	PP24468,PP24473
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	Q2246-01		FG016018.D	10 Jun 2025 19:02		YP\AJ	Ok,M
20	Q2246-01MS		FG016019.D	10 Jun 2025 19:31		YP\AJ	Ok
21	Q2246-01MSD		FG016020.D	10 Jun 2025 20:01		YP\AJ	Ok
22	I.BLK		FG016021.D	10 Jun 2025 20:30		YP\AJ	Ok
23	50 PPM TRPH STD		FG016022.D	10 Jun 2025 21:00		YP\AJ	Ok
24	PB168383BL		FG016023.D	10 Jun 2025 21:59		YP\AJ	Ok
25	Q2126-10		FG016024.D	10 Jun 2025 22:28	1 PPM WATER LOD	YP\AJ	Ok,M
26	Q2126-10		FG016025.D	10 Jun 2025 22:57	2.5 PPM WATER LOD	YP\AJ	Ok,M
27	Q2126-11		FG016026.D	10 Jun 2025 23:27	5 PPM WATER LOQ	YP\AJ	Ok
28	I.BLK		FG016027.D	10 Jun 2025 23:56		YP\AJ	Ok
29	50 PPM TRPH STD		FG016028.D	11 Jun 2025 00:26		YP\AJ	Ok
30	I.BLK		FG016029.D	11 Jun 2025 01:24		YP\AJ	Ok
31	50 PPM TRPH STD		FG016030.D	11 Jun 2025 01:53		YP\AJ	Ok
32	RT MARKER		FG016031.D	11 Jun 2025 02:23		YP\AJ	Ok
33	PB168380BL		FG016032.D	11 Jun 2025 02:52		YP\AJ	Ok
34	PB168381BL		FG016033.D	11 Jun 2025 03:22		YP\AJ	Ok
35	Q2126-01		FG016034.D	11 Jun 2025 03:51	1 PPM SOIL LOD	YP\AJ	Ok,M
36	Q2126-01		FG016035.D	11 Jun 2025 04:20	2.5 PPM SOIL LOD	YP\AJ	Ok
37	Q2126-02		FG016036.D	11 Jun 2025 04:49	5 PPM SOIL LOQ	YP\AJ	Ok

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Instrument ID: FID_G

Daily Analysis Runlog For Sequence/QCBatch ID # FG061025

Review By	yogesh	Review On	6/10/2025 12:14:20 PM		
Supervise By	mohammad	Supervise On	6/12/2025 3:34:17 AM		
SubDirectory	FG061025	HP Acquire Method		HP Processing Method	FG052225

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24467,PP24469,PP24470,PP24471,PP24472
CCC	PP24469
Internal Standard/PEM	
ICV/I.BLK	PP24468,PP24473
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

38	Q2126-07		FG016037.D	11 Jun 2025 05:19	1 PPM WATER LOD	YP\AJ	Ok,M
39	Q2126-07		FG016038.D	11 Jun 2025 05:48	2.5 PPM WATER LOD	YP\AJ	Ok,M
40	Q2126-08		FG016039.D	11 Jun 2025 06:17	5 PPM WATER LOQ	YP\AJ	Ok
41	I.BLK		FG016040.D	11 Jun 2025 06:46		YP\AJ	Ok
42	50 PPM TRPH STD		FG016041.D	11 Jun 2025 07:16		YP\AJ	Ok

M : Manual Integration

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EXTRACTION LOGPAGE

PB168382

13

SOP ID:	M3541-ASE Extraction-14				
Clean Up SOP #:	N/A			**Extraction Start Date :**	06/10/2025
Matrix :	Solid			**Extraction Start Time :**	08:16
Weigh By:	EH	**Extraction By:**	RJ	**Extraction End Date :**	06/10/2025
Balance check:	RJ	**Filter By:**	RJ	**Extraction End Time :**	11:15
Balance ID:	EX-SC-2	**pH Meter ID:**	N/A	**Concentration By:**	EH
pH Strip Lot#:	N/A	**Hood ID:**	3,7	**Supervisor By :**	rajesh

Extraction Method: ☐ Seperatory Funnel ☐ Continious Liquid/Liquid ☐ Sonication ☐ Waste Dilution ☑ Soxhlet

Standared Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Spike Sol 1	1.0ML	20 PPM	PP24162
Surrogate	1.0ML	20 PPM	PP24596
LOD	0.05ML	20 PPM	PP24162
LOD	0.125ML	20 PPM	PP24162
LOQ	0.25ML	20 PPM	PP24162

Chemical Used	ML/SAMPLE USED	Lot Number
MeCl2/Acetone/1:1	N/A	EP2612
Baked Na2SO4	N/A	EP2620
Sand	N/A	E2865
Methylene Chloride	N/A	E3939
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

1.5 ML Vial lot# 2210673.

KD Bath ID:	N/A	**Envap ID:**	NEVAP-02
KD Bath Temperature:	N/A	**Envap Temperature:**	40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
06/10/25	RP (Ext. Lab)	PP-Pest IPC.
11:20	**Preparation Group**	**Analysis Group**

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PrepBatch ID : PB168382

Analytical Method: M3541-ASE Extraction-14

Concentration Date: 06/10/2025

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB168382BL	PB168382BL	TPH GC	30.03	N/A	ritesh	Evelyn	1			U2-1
PB168382BS	PB168382BS	TPH GC	30.02	N/A	ritesh	Evelyn	1			2
Q2126-04	LOD-MDL-SOIL-04-QT2-2025 0.05ML	TPH GC	30.03	N/A	ritesh	Evelyn	1			3
Q2126-05	LOQ-SOIL-05-QT2-2025 0.25 ML	TPH GC	30.01	N/A	ritesh	Evelyn	1			4
Q2198-01	B-202-SB02	TPH GC	30.08	N/A	ritesh	Evelyn	1	D		5
Q2198-03	B-207-SB02	TPH GC	30.05	N/A	ritesh	Evelyn	1	D		6
Q2246-01	BU-03-060525	TPH GC	30.03	N/A	ritesh	Evelyn	1	B		U3-1
Q2246-01MS	BU-03-060525MS	TPH GC	30.07	N/A	ritesh	Evelyn	1	B		2
Q2246-01MSD	BU-03-060525MSD	TPH GC	30.09	N/A	ritesh	Evelyn	1	B		3
	LOD · 0.125 ML	"	30.03	"	"	"	1			4

* **Extracts relinguished on the same date as received.**

6/10/25

1683813
TPH 8-16-E

WORKLIST(Hardcopy Internal Chain)

WorkList Name : Q2126T **WorkList ID :** 190064 **Department :** Extraction **Date :** 06-10-2025 08:10:23

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2126-01	LOD-MDL-SOIL-03-QT2-2025	Solid	Diesel Range Organics	Cool 4 deg C	ALLI03	QA Of	05/23/2025	8015D
Q2126-02	LOQ-SOIL-02-QT2-2025	Solid	Diesel Range Organics	Cool 4 deg C	ALLI03	QA Of	05/23/2025	8015D
Q2126-04	LOD-MDL-SOIL-04-QT2-2025	Solid	TPH GC	Cool 4 deg C	ALLI03	QA Of	05/23/2025	8015D
Q2126-05	LOQ-SOIL-05-QT2-2025	Solid	TPH GC	Cool 4 deg C	ALLI03	QA Of	05/23/2025	8015D
Q2126-07	LOD-MDL-WATER-01-QT2-202	Water	Diesel Range Organics	Cool 4 deg C	ALLI03	QA Of	05/23/2025	8015D
Q2126-08	LOQ-WATER-02-QT2-2025	Water	Diesel Range Organics	Cool 4 deg C	ALLI03	QA Of	05/23/2025	8015D
Q2126-10	LOD-MDL-WATER-04-QT2-202	Water	TPH GC	Cool 4 deg C	ALLI03	QA Of	05/23/2025	8015D
Q2126-11	LOQ-WATER-05-QT2-2025	Water	TPH GC	Cool 4 deg C	ALLI03	QA Of	05/23/2025	8015D
Q2198-01	B-202-SB02	Solid	TPH GC	Cool 4 deg C	PORT06	N22	05/31/2025	8015D
Q2198-03	B-207-SB02	Solid	TPH GC	Cool 4 deg C	PORT06	N22	06/01/2025	8015D
Q2246-01	BU-03-060525	Solid	TPH GC	Cool 4 deg C	PSEG05	N51	06/05/2025	8015D

1352 of 1607

Date/Time 06/10/25 8:10
Raw Sample Received by: RS (Ext lab)
Raw Sample Relinquished by:

Date/Time 06/10/25 8:30
Raw Sample Received by:
Raw Sample Relinquished by: RS (Ext lab)

Q2198

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

LAB CHRONICLE

OrderID:	Q2198	**OrderDate:**	6/3/2025 2:31:00 PM
Client:	Portal Partners Tri-Venture	**Project:**	Amtrak Sawtooth Bridges 2025
Contact:	Joseph Krupansky	**Location:**	N22,VOA Ref. #2 Soil,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2198-01	**B-202-SB02**	**SOIL**			**05/31/25**			**06/03/25**
			PCB	8082A		06/04/25	06/04/25	
			TPH GC	8015D		06/10/25	06/10/25	
Q2198-02	**B-202-SB02**	**TCLP**			**05/31/25**			**06/03/25**
			TCLP Herbicide	8151A		06/06/25	06/09/25	
			TCLP Pesticide	8081B		06/06/25	06/09/25	
Q2198-03	**B-207-SB02**	**SOIL**			**06/01/25**			**06/03/25**
			TPH GC	8015D		06/10/25	06/10/25	
			PCB	8082A		06/04/25	06/04/25	
Q2198-04	**B-207-SB02**	**TCLP**			**06/01/25**			**06/03/25**
			TCLP Herbicide	8151A		06/06/25	06/09/25	
			TCLP Pesticide	8081B		06/06/25	06/09/25	
Q2198-05	**B-202-GW01**	**WATER**			**05/31/25**			**06/03/25**
			PCB	8082A		06/06/25	06/06/25	

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Hit Summary Sheet
SW-846

SDG No.: Q2198 **Order ID:** Q2198

Client: Portal Partners Tri-Venture **Project ID:** Amtrak Sawtooth Bridges 2025

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID : B-202-SB02								
Q2198-01	B-202-SB02	SOIL	Aluminum	5940		0.97	5.80	mg/Kg
Q2198-01	B-202-SB02	SOIL	Arsenic	4.98		0.22	1.16	mg/Kg
Q2198-01	B-202-SB02	SOIL	Barium	7.74		0.85	5.80	mg/Kg
Q2198-01	B-202-SB02	SOIL	Beryllium	0.25	J	0.029	0.35	mg/Kg
Q2198-01	B-202-SB02	SOIL	Cadmium	0.045	J	0.028	0.35	mg/Kg
Q2198-01	B-202-SB02	SOIL	Calcium	957		12.9	116	mg/Kg
Q2198-01	B-202-SB02	SOIL	Chromium	7.85		0.054	0.58	mg/Kg
Q2198-01	B-202-SB02	SOIL	Cobalt	1.60	J	0.12	1.74	mg/Kg
Q2198-01	B-202-SB02	SOIL	Copper	6.64		0.26	1.16	mg/Kg
Q2198-01	B-202-SB02	SOIL	Iron	6140		4.62	5.80	mg/Kg
Q2198-01	B-202-SB02	SOIL	Lead	8.55		0.15	0.70	mg/Kg
Q2198-01	B-202-SB02	SOIL	Magnesium	838		13.9	116	mg/Kg
Q2198-01	B-202-SB02	SOIL	Manganese	22.9		0.16	1.16	mg/Kg
Q2198-01	B-202-SB02	SOIL	Mercury	0.067		0.011	0.019	mg/Kg
Q2198-01	B-202-SB02	SOIL	Nickel	4.23		0.15	2.32	mg/Kg
Q2198-01	B-202-SB02	SOIL	Potassium	332		32.1	116	mg/Kg
Q2198-01	B-202-SB02	SOIL	Selenium	0.66	J	0.30	1.16	mg/Kg
Q2198-01	B-202-SB02	SOIL	Silver	0.29	J	0.14	0.58	mg/Kg
Q2198-01	B-202-SB02	SOIL	Sodium	259		20.6	116	mg/Kg
Q2198-01	B-202-SB02	SOIL	Vanadium	9.23		0.29	2.32	mg/Kg
Q2198-01	B-202-SB02	SOIL	Zinc	11.0		0.27	2.32	mg/Kg
Client ID : B-207-SB02								
Q2198-03	B-207-SB02	SOIL	Aluminum	7580		1.45	8.65	mg/Kg
Q2198-03	B-207-SB02	SOIL	Arsenic	7.70		0.33	1.73	mg/Kg
Q2198-03	B-207-SB02	SOIL	Barium	70.4		1.26	8.65	mg/Kg
Q2198-03	B-207-SB02	SOIL	Beryllium	0.55		0.043	0.52	mg/Kg
Q2198-03	B-207-SB02	SOIL	Cadmium	0.35	J	0.042	0.52	mg/Kg
Q2198-03	B-207-SB02	SOIL	Calcium	7810		19.2	173	mg/Kg
Q2198-03	B-207-SB02	SOIL	Chromium	27.8		0.081	0.87	mg/Kg
Q2198-03	B-207-SB02	SOIL	Cobalt	9.82		0.17	2.59	mg/Kg
Q2198-03	B-207-SB02	SOIL	Copper	56.1		0.38	1.73	mg/Kg
Q2198-03	B-207-SB02	SOIL	Iron	22200		6.90	8.65	mg/Kg
Q2198-03	B-207-SB02	SOIL	Lead	65.5		0.23	1.04	mg/Kg
Q2198-03	B-207-SB02	SOIL	Magnesium	5230		20.8	173	mg/Kg
Q2198-03	B-207-SB02	SOIL	Manganese	213		0.24	1.73	mg/Kg
Q2198-03	B-207-SB02	SOIL	Mercury	0.21		0.014	0.026	mg/Kg
Q2198-03	B-207-SB02	SOIL	Nickel	24.7		0.23	3.46	mg/Kg

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Fax : 908 789 8922

Hit Summary Sheet
SW-846

SDG No.: Q2198 **Order ID:** Q2198

Client: Portal Partners Tri-Venture **Project ID:** Amtrak Sawtooth Bridges 2025

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Q2198-03	B-207-SB02	SOIL	Potassium	3720		47.9	173	mg/Kg
Q2198-03	B-207-SB02	SOIL	Selenium	0.93	J	0.45	1.73	mg/Kg
Q2198-03	B-207-SB02	SOIL	Silver	1.26		0.21	0.87	mg/Kg
Q2198-03	B-207-SB02	SOIL	Sodium	351		30.8	173	mg/Kg
Q2198-03	B-207-SB02	SOIL	Vanadium	27.1		0.43	3.46	mg/Kg
Q2198-03	B-207-SB02	SOIL	Zinc	132		0.40	3.46	mg/Kg
Client ID :	**B-202-GW01**							
Q2198-05	B-202-GW01	Water	Aluminum	23100	D	28.4	250	ug/L
Q2198-05	B-202-GW01	Water	Barium	68.1	JD	36.4	250	ug/L
Q2198-05	B-202-GW01	Water	Calcium	33200	D	585	5000	ug/L
Q2198-05	B-202-GW01	Water	Chromium	59.5	D	5.30	25.0	ug/L
Q2198-05	B-202-GW01	Water	Cobalt	6.74	JD	5.65	75.0	ug/L
Q2198-05	B-202-GW01	Water	Copper	50.5	D	11.5	50.0	ug/L
Q2198-05	B-202-GW01	Water	Iron	26800	D	58.5	250	ug/L
Q2198-05	B-202-GW01	Water	Lead	79.0	D	5.75	30.0	ug/L
Q2198-05	B-202-GW01	Water	Magnesium	36300	D	610	5000	ug/L
Q2198-05	B-202-GW01	Water	Manganese	354	D	14.9	50.0	ug/L
Q2198-05	B-202-GW01	Water	Mercury	0.31		0.076	0.20	ug/L
Q2198-05	B-202-GW01	Water	Nickel	23.9	JD	7.65	100	ug/L
Q2198-05	B-202-GW01	Water	Potassium	30400	D	2300	5000	ug/L
Q2198-05	B-202-GW01	Water	Sodium	367000	D	2170	5000	ug/L
Q2198-05	B-202-GW01	Water	Vanadium	77.0	JD	15.7	100	ug/L
Q2198-05	B-202-GW01	Water	Zinc	149	D	41.7	100	ug/L

SAMPLE DATA

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	05/31/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	06/03/25
Client Sample ID:	B-202-SB02	SDG No.:	Q2198
Lab Sample ID:	Q2198-01	Matrix:	SOIL
Level (low/med):	low	% Solid:	71.9

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	5940		1	0.97	5.80	mg/Kg	06/04/25 10:20	06/05/25 20:37	6010D	SW3050
7440-36-0	Antimony	0.26	UN	1	0.26	2.90	mg/Kg	06/04/25 10:20	06/05/25 20:37	6010D	SW3050
7440-38-2	Arsenic	4.98		1	0.22	1.16	mg/Kg	06/04/25 10:20	06/05/25 20:37	6010D	SW3050
7440-39-3	Barium	7.74	N	1	0.85	5.80	mg/Kg	06/04/25 10:20	06/05/25 20:37	6010D	SW3050
7440-41-7	Beryllium	0.25	JN	1	0.029	0.35	mg/Kg	06/04/25 10:20	06/05/25 20:37	6010D	SW3050
7440-43-9	Cadmium	0.045	J*	1	0.028	0.35	mg/Kg	06/04/25 10:20	06/05/25 20:37	6010D	SW3050
7440-70-2	Calcium	957		1	12.9	116	mg/Kg	06/04/25 10:20	06/05/25 20:37	6010D	SW3050
7440-47-3	Chromium	7.85	N	1	0.054	0.58	mg/Kg	06/04/25 10:20	06/05/25 20:37	6010D	SW3050
7440-48-4	Cobalt	1.60	J	1	0.12	1.74	mg/Kg	06/04/25 10:20	06/05/25 20:37	6010D	SW3050
7440-50-8	Copper	6.64	N	1	0.26	1.16	mg/Kg	06/04/25 10:20	06/05/25 20:37	6010D	SW3050
7439-89-6	Iron	6140		1	4.62	5.80	mg/Kg	06/04/25 10:20	06/05/25 20:37	6010D	SW3050
7439-92-1	Lead	8.55		1	0.15	0.70	mg/Kg	06/04/25 10:20	06/05/25 20:37	6010D	SW3050
7439-95-4	Magnesium	838		1	13.9	116	mg/Kg	06/04/25 10:20	06/05/25 20:37	6010D	SW3050
7439-96-5	Manganese	22.9		1	0.16	1.16	mg/Kg	06/04/25 10:20	06/05/25 20:37	6010D	SW3050
7439-97-6	Mercury	0.067	N	1	0.011	0.019	mg/Kg	06/04/25 09:25	06/04/25 16:08	7471B	
7440-02-0	Nickel	4.23		1	0.15	2.32	mg/Kg	06/04/25 10:20	06/05/25 20:37	6010D	SW3050
7440-09-7	Potassium	332	N*	1	32.1	116	mg/Kg	06/04/25 10:20	06/05/25 20:37	6010D	SW3050
7782-49-2	Selenium	0.66	J	1	0.30	1.16	mg/Kg	06/04/25 10:20	06/05/25 20:37	6010D	SW3050
7440-22-4	Silver	0.29	JN	1	0.14	0.58	mg/Kg	06/04/25 10:20	06/05/25 20:37	6010D	SW3050
7440-23-5	Sodium	259	N*	1	20.6	116	mg/Kg	06/04/25 10:20	06/05/25 20:37	6010D	SW3050
7440-28-0	Thallium	0.27	U	1	0.27	2.32	mg/Kg	06/04/25 10:20	06/05/25 20:37	6010D	SW3050
7440-62-2	Vanadium	9.23		1	0.29	2.32	mg/Kg	06/04/25 10:20	06/05/25 20:37	6010D	SW3050
7440-66-6	Zinc	11.0	N	1	0.27	2.32	mg/Kg	06/04/25 10:20	06/05/25 20:37	6010D	SW3050

Color Before:	Brown	Clarity Before:		Texture:	Medium
Color After:	Yellow	Clarity After:		Artifacts:	
Comments:	METALS-TAL				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	06/01/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	06/03/25
Client Sample ID:	B-207-SB02	SDG No.:	Q2198
Lab Sample ID:	Q2198-03	Matrix:	SOIL
Level (low/med):	low	% Solid:	52.1

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	7580		1	1.45	8.65	mg/Kg	06/04/25 10:20	06/05/25 20:41	6010D	SW3050
7440-36-0	Antimony	0.38	UN	1	0.38	4.32	mg/Kg	06/04/25 10:20	06/05/25 20:41	6010D	SW3050
7440-38-2	Arsenic	7.70		1	0.33	1.73	mg/Kg	06/04/25 10:20	06/05/25 20:41	6010D	SW3050
7440-39-3	Barium	70.4	N	1	1.26	8.65	mg/Kg	06/04/25 10:20	06/05/25 20:41	6010D	SW3050
7440-41-7	Beryllium	0.55	N	1	0.043	0.52	mg/Kg	06/04/25 10:20	06/05/25 20:41	6010D	SW3050
7440-43-9	Cadmium	0.35	J*	1	0.042	0.52	mg/Kg	06/04/25 10:20	06/05/25 20:41	6010D	SW3050
7440-70-2	Calcium	7810		1	19.2	173	mg/Kg	06/04/25 10:20	06/05/25 20:41	6010D	SW3050
7440-47-3	Chromium	27.8	N	1	0.081	0.87	mg/Kg	06/04/25 10:20	06/05/25 20:41	6010D	SW3050
7440-48-4	Cobalt	9.82		1	0.17	2.59	mg/Kg	06/04/25 10:20	06/05/25 20:41	6010D	SW3050
7440-50-8	Copper	56.1	N	1	0.38	1.73	mg/Kg	06/04/25 10:20	06/05/25 20:41	6010D	SW3050
7439-89-6	Iron	22200		1	6.90	8.65	mg/Kg	06/04/25 10:20	06/05/25 20:41	6010D	SW3050
7439-92-1	Lead	65.5		1	0.23	1.04	mg/Kg	06/04/25 10:20	06/05/25 20:41	6010D	SW3050
7439-95-4	Magnesium	5230		1	20.8	173	mg/Kg	06/04/25 10:20	06/05/25 20:41	6010D	SW3050
7439-96-5	Manganese	213		1	0.24	1.73	mg/Kg	06/04/25 10:20	06/05/25 20:41	6010D	SW3050
7439-97-6	Mercury	0.21	N	1	0.014	0.026	mg/Kg	06/04/25 09:25	06/04/25 16:10	7471B	
7440-02-0	Nickel	24.7		1	0.23	3.46	mg/Kg	06/04/25 10:20	06/05/25 20:41	6010D	SW3050
7440-09-7	Potassium	3720	N*	1	47.9	173	mg/Kg	06/04/25 10:20	06/05/25 20:41	6010D	SW3050
7782-49-2	Selenium	0.93	J	1	0.45	1.73	mg/Kg	06/04/25 10:20	06/05/25 20:41	6010D	SW3050
7440-22-4	Silver	1.26	N	1	0.21	0.87	mg/Kg	06/04/25 10:20	06/05/25 20:41	6010D	SW3050
7440-23-5	Sodium	351	N*	1	30.8	173	mg/Kg	06/04/25 10:20	06/05/25 20:41	6010D	SW3050
7440-28-0	Thallium	0.40	U	1	0.40	3.46	mg/Kg	06/04/25 10:20	06/05/25 20:41	6010D	SW3050
7440-62-2	Vanadium	27.1		1	0.43	3.46	mg/Kg	06/04/25 10:20	06/05/25 20:41	6010D	SW3050
7440-66-6	Zinc	132	N	1	0.40	3.46	mg/Kg	06/04/25 10:20	06/05/25 20:41	6010D	SW3050

Color Before:	Brown	Clarity Before:		Texture:	Medium
Color After:	Yellow	Clarity After:		Artifacts:	
Comments:	METALS-TAL				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
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OR = Over Range
N =Spiked sample recovery not within control limits

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	05/31/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	06/03/25
Client Sample ID:	B-202-GW01	SDG No.:	Q2198
Lab Sample ID:	Q2198-05	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	23100	D	5	28.4	250	ug/L	06/04/25 10:14	06/04/25 21:07	6010D	SW3010
7440-36-0	Antimony	16.9	UDN	5	16.9	125	ug/L	06/04/25 10:14	06/04/25 21:07	6010D	SW3010
7440-38-2	Arsenic	12.8	UD	5	12.8	50.0	ug/L	06/04/25 10:14	06/04/25 21:07	6010D	SW3010
7440-39-3	Barium	68.1	JD	5	36.4	250	ug/L	06/04/25 10:14	06/04/25 21:07	6010D	SW3010
7440-41-7	Beryllium	1.40	UD	5	1.40	15.0	ug/L	06/04/25 10:14	06/04/25 21:07	6010D	SW3010
7440-43-9	Cadmium	1.25	UD	5	1.25	15.0	ug/L	06/04/25 10:14	06/04/25 21:07	6010D	SW3010
7440-70-2	Calcium	33200	D	5	585	5000	ug/L	06/04/25 10:14	06/04/25 21:07	6010D	SW3010
7440-47-3	Chromium	59.5	D	5	5.30	25.0	ug/L	06/04/25 10:14	06/04/25 21:07	6010D	SW3010
7440-48-4	Cobalt	6.74	JD	5	5.65	75.0	ug/L	06/04/25 10:14	06/04/25 21:07	6010D	SW3010
7440-50-8	Copper	50.5	D	5	11.5	50.0	ug/L	06/04/25 10:14	06/04/25 21:07	6010D	SW3010
7439-89-6	Iron	26800	D	5	58.5	250	ug/L	06/04/25 10:14	06/04/25 21:07	6010D	SW3010
7439-92-1	Lead	79.0	D	5	5.75	30.0	ug/L	06/04/25 10:14	06/04/25 21:07	6010D	SW3010
7439-95-4	Magnesium	36300	D	5	610	5000	ug/L	06/04/25 10:14	06/04/25 21:07	6010D	SW3010
7439-96-5	Manganese	354	DN	5	14.9	50.0	ug/L	06/04/25 10:14	06/04/25 21:07	6010D	SW3010
7439-97-6	Mercury	0.31		1	0.076	0.20	ug/L	06/05/25 14:05	06/06/25 11:25	7470A	
7440-02-0	Nickel	23.9	JD	5	7.65	100	ug/L	06/04/25 10:14	06/04/25 21:07	6010D	SW3010
7440-09-7	Potassium	30400	D	5	2300	5000	ug/L	06/04/25 10:14	06/04/25 21:07	6010D	SW3010
7782-49-2	Selenium	24.1	UD	5	24.1	50.0	ug/L	06/04/25 10:14	06/04/25 21:07	6010D	SW3010
7440-22-4	Silver	4.05	UD	5	4.05	25.0	ug/L	06/04/25 10:14	06/04/25 21:07	6010D	SW3010
7440-23-5	Sodium	367000	D	5	2170	5000	ug/L	06/04/25 10:14	06/04/25 21:07	6010D	SW3010
7440-28-0	Thallium	10.9	UD	5	10.9	100	ug/L	06/04/25 10:14	06/04/25 21:07	6010D	SW3010
7440-62-2	Vanadium	77.0	JD	5	15.7	100	ug/L	06/04/25 10:14	06/04/25 21:07	6010D	SW3010
7440-66-6	Zinc	149	D	5	41.7	100	ug/L	06/04/25 10:14	06/04/25 21:07	6010D	SW3010

Color Before:	Brown	Clarity Before:	Cloudy	Texture:	
Color After:	light Brown	Clarity After:	Clear	Artifacts:	
Comments:	METALS-TAL				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
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OR = Over Range
N =Spiked sample recovery not within control limits

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Fax : 908 789 8922

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q2198

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q2198 **SAS No.:** Q2198

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB27	Mercury	0.076	+/-0.2	U	0.20	CV	06/04/2025	15:06	LB136001

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Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q2198

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q2198 **SAS No.:** Q2198

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB01	Mercury	0.081	+/-0.2	J	0.20	CV	06/04/2025	15:14	LB136001
CCB02	Mercury	0.076	+/-0.2	U	0.20	CV	06/04/2025	16:01	LB136001
CCB03	Mercury	0.076	+/-0.2	U	0.20	CV	06/04/2025	16:29	LB136001

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Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q2198

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q2198 **SAS No.:** Q2198

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB29	Mercury	0.076	+/-0.2	U	0.20	CV	06/06/2025	10:05	LB136036

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Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q2198

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q2198 **SAS No.:** Q2198

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB08	Mercury	0.076	+/-0.2	U	0.20	CV	06/06/2025	10:10	LB136036
CCB09	Mercury	0.076	+/-0.2	U	0.20	CV	06/06/2025	10:40	LB136036
CCB10	Mercury	0.076	+/-0.2	U	0.20	CV	06/06/2025	11:07	LB136036
CCB11	Mercury	0.076	+/-0.2	U	0.20	CV	06/06/2025	11:43	LB136036
CCB12	Mercury	0.076	+/-0.2	U	0.20	CV	06/06/2025	12:08	LB136036
CCB13	Mercury	0.076	+/-0.2	U	0.20	CV	06/06/2025	12:35	LB136036

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Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q2198

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q2198 **SAS No.:** Q2198

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB01	Aluminum	11.3	+/-50	U	100	P	06/04/2025	16:10	LB136011
	Antimony	6.76	+/-25	U	50.0	P	06/04/2025	16:10	LB136011
	Arsenic	5.12	+/-10	U	20.0	P	06/04/2025	16:10	LB136011
	Barium	14.6	+/-50	U	100	P	06/04/2025	16:10	LB136011
	Beryllium	0.56	+/-3	U	6.00	P	06/04/2025	16:10	LB136011
	Cadmium	0.50	+/-3	U	6.00	P	06/04/2025	16:10	LB136011
	Calcium	234	+/-1000	U	2000	P	06/04/2025	16:10	LB136011
	Chromium	2.12	+/-5	U	10.0	P	06/04/2025	16:10	LB136011
	Cobalt	2.26	+/-15	U	30.0	P	06/04/2025	16:10	LB136011
	Copper	4.60	+/-10	U	20.0	P	06/04/2025	16:10	LB136011
	Iron	23.4	+/-50	U	100	P	06/04/2025	16:10	LB136011
	Lead	2.30	+/-6	U	12.0	P	06/04/2025	16:10	LB136011
	Magnesium	244	+/-1000	U	2000	P	06/04/2025	16:10	LB136011
	Manganese	5.94	+/-10	U	20.0	P	06/04/2025	16:10	LB136011
	Nickel	3.06	+/-20	U	40.0	P	06/04/2025	16:10	LB136011
	Potassium	918	+/-1000	U	2000	P	06/04/2025	16:10	LB136011
	Selenium	9.64	+/-10	U	20.0	P	06/04/2025	16:10	LB136011
	Silver	1.62	+/-5	U	10.0	P	06/04/2025	16:10	LB136011
	Sodium	868	+/-1000	U	2000	P	06/04/2025	16:10	LB136011
	Thallium	4.38	+/-20	U	40.0	P	06/04/2025	16:10	LB136011
	Vanadium	6.26	+/-20	U	40.0	P	06/04/2025	16:10	LB136011
	Zinc	16.7	+/-20	U	40.0	P	06/04/2025	16:10	LB136011

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284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q2198

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q2198 **SAS No.:** Q2198

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB01	Aluminum	11.3	+/-50	U	100	P	06/04/2025	16:52	LB136011
	Antimony	6.76	+/-25	U	50.0	P	06/04/2025	16:52	LB136011
	Arsenic	5.12	+/-10	U	20.0	P	06/04/2025	16:52	LB136011
	Barium	14.6	+/-50	U	100	P	06/04/2025	16:52	LB136011
	Beryllium	0.56	+/-3	U	6.00	P	06/04/2025	16:52	LB136011
	Cadmium	0.50	+/-3	U	6.00	P	06/04/2025	16:52	LB136011
	Calcium	234	+/-1000	U	2000	P	06/04/2025	16:52	LB136011
	Chromium	2.12	+/-5	U	10.0	P	06/04/2025	16:52	LB136011
	Cobalt	2.26	+/-15	U	30.0	P	06/04/2025	16:52	LB136011
	Copper	4.60	+/-10	U	20.0	P	06/04/2025	16:52	LB136011
	Iron	23.4	+/-50	U	100	P	06/04/2025	16:52	LB136011
	Lead	2.30	+/-6	U	12.0	P	06/04/2025	16:52	LB136011
	Magnesium	244	+/-1000	U	2000	P	06/04/2025	16:52	LB136011
	Manganese	5.94	+/-10	U	20.0	P	06/04/2025	16:52	LB136011
	Nickel	3.06	+/-20	U	40.0	P	06/04/2025	16:52	LB136011
	Potassium	918	+/-1000	U	2000	P	06/04/2025	16:52	LB136011
	Selenium	9.64	+/-10	U	20.0	P	06/04/2025	16:52	LB136011
	Silver	1.62	+/-5	U	10.0	P	06/04/2025	16:52	LB136011
	Sodium	868	+/-1000	U	2000	P	06/04/2025	16:52	LB136011
	Thallium	4.38	+/-20	U	40.0	P	06/04/2025	16:52	LB136011
	Vanadium	6.26	+/-20	U	40.0	P	06/04/2025	16:52	LB136011
	Zinc	16.7	+/-20	U	40.0	P	06/04/2025	16:52	LB136011
CCB02	Aluminum	11.3	+/-50	U	100	P	06/04/2025	17:39	LB136011
	Antimony	6.76	+/-25	U	50.0	P	06/04/2025	17:39	LB136011
	Arsenic	5.12	+/-10	U	20.0	P	06/04/2025	17:39	LB136011
	Barium	14.6	+/-50	U	100	P	06/04/2025	17:39	LB136011
	Beryllium	0.56	+/-3	U	6.00	P	06/04/2025	17:39	LB136011
	Cadmium	0.50	+/-3	U	6.00	P	06/04/2025	17:39	LB136011
	Calcium	234	+/-1000	U	2000	P	06/04/2025	17:39	LB136011
	Chromium	2.12	+/-5	U	10.0	P	06/04/2025	17:39	LB136011
	Cobalt	2.26	+/-15	U	30.0	P	06/04/2025	17:39	LB136011
	Copper	4.60	+/-10	U	20.0	P	06/04/2025	17:39	LB136011
	Iron	23.4	+/-50	U	100	P	06/04/2025	17:39	LB136011
	Lead	2.30	+/-6	U	12.0	P	06/04/2025	17:39	LB136011
	Magnesium	244	+/-1000	U	2000	P	06/04/2025	17:39	LB136011
	Manganese	5.94	+/-10	U	20.0	P	06/04/2025	17:39	LB136011
	Nickel	3.06	+/-20	U	40.0	P	06/04/2025	17:39	LB136011
	Potassium	918	+/-1000	U	2000	P	06/04/2025	17:39	LB136011
	Selenium	9.64	+/-10	U	20.0	P	06/04/2025	17:39	LB136011

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q2198

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q2198 **SAS No.:** Q2198

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB02	Silver	1.62	+/-5	U	10.0	P	06/04/2025	17:39	LB136011
	Sodium	868	+/-1000	U	2000	P	06/04/2025	17:39	LB136011
	Thallium	4.38	+/-20	U	40.0	P	06/04/2025	17:39	LB136011
	Vanadium	6.26	+/-20	U	40.0	P	06/04/2025	17:39	LB136011
	Zinc	16.7	+/-20	U	40.0	P	06/04/2025	17:39	LB136011
CCB03	Aluminum	11.3	+/-50	U	100	P	06/04/2025	18:42	LB136011
	Antimony	6.76	+/-25	U	50.0	P	06/04/2025	18:42	LB136011
	Arsenic	5.12	+/-10	U	20.0	P	06/04/2025	18:42	LB136011
	Barium	14.6	+/-50	U	100	P	06/04/2025	18:42	LB136011
	Beryllium	0.56	+/-3	U	6.00	P	06/04/2025	18:42	LB136011
	Cadmium	0.50	+/-3	U	6.00	P	06/04/2025	18:42	LB136011
	Calcium	234	+/-1000	U	2000	P	06/04/2025	18:42	LB136011
	Chromium	2.12	+/-5	U	10.0	P	06/04/2025	18:42	LB136011
	Cobalt	2.26	+/-15	U	30.0	P	06/04/2025	18:42	LB136011
	Copper	4.60	+/-10	U	20.0	P	06/04/2025	18:42	LB136011
	Iron	23.4	+/-50	U	100	P	06/04/2025	18:42	LB136011
	Lead	2.30	+/-6	U	12.0	P	06/04/2025	18:42	LB136011
	Magnesium	244	+/-1000	U	2000	P	06/04/2025	18:42	LB136011
	Manganese	5.94	+/-10	U	20.0	P	06/04/2025	18:42	LB136011
	Nickel	3.06	+/-20	U	40.0	P	06/04/2025	18:42	LB136011
	Potassium	918	+/-1000	U	2000	P	06/04/2025	18:42	LB136011
	Selenium	9.64	+/-10	U	20.0	P	06/04/2025	18:42	LB136011
	Silver	1.62	+/-5	U	10.0	P	06/04/2025	18:42	LB136011
	Sodium	868	+/-1000	U	2000	P	06/04/2025	18:42	LB136011
	Thallium	4.38	+/-20	U	40.0	P	06/04/2025	18:42	LB136011
	Vanadium	6.26	+/-20	U	40.0	P	06/04/2025	18:42	LB136011
	Zinc	16.7	+/-20	U	40.0	P	06/04/2025	18:42	LB136011
CCB04	Aluminum	11.3	+/-50	U	100	P	06/04/2025	19:30	LB136011
	Antimony	6.76	+/-25	U	50.0	P	06/04/2025	19:30	LB136011
	Arsenic	5.12	+/-10	U	20.0	P	06/04/2025	19:30	LB136011
	Barium	14.6	+/-50	U	100	P	06/04/2025	19:30	LB136011
	Beryllium	0.56	+/-3	U	6.00	P	06/04/2025	19:30	LB136011
	Cadmium	0.50	+/-3	U	6.00	P	06/04/2025	19:30	LB136011
	Calcium	234	+/-1000	U	2000	P	06/04/2025	19:30	LB136011
	Chromium	2.12	+/-5	U	10.0	P	06/04/2025	19:30	LB136011
	Cobalt	2.26	+/-15	U	30.0	P	06/04/2025	19:30	LB136011
	Copper	4.60	+/-10	U	20.0	P	06/04/2025	19:30	LB136011
	Iron	23.4	+/-50	U	100	P	06/04/2025	19:30	LB136011
	Lead	2.30	+/-6	U	12.0	P	06/04/2025	19:30	LB136011

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q2198

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q2198 **SAS No.:** Q2198

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB04	Magnesium	244	+/-1000	U	2000	P	06/04/2025	19:30	LB136011
	Manganese	5.94	+/-10	U	20.0	P	06/04/2025	19:30	LB136011
	Nickel	3.06	+/-20	U	40.0	P	06/04/2025	19:30	LB136011
	Potassium	918	+/-1000	U	2000	P	06/04/2025	19:30	LB136011
	Selenium	9.64	+/-10	U	20.0	P	06/04/2025	19:30	LB136011
	Silver	1.62	+/-5	U	10.0	P	06/04/2025	19:30	LB136011
	Sodium	868	+/-1000	U	2000	P	06/04/2025	19:30	LB136011
	Thallium	4.38	+/-20	U	40.0	P	06/04/2025	19:30	LB136011
	Vanadium	6.26	+/-20	U	40.0	P	06/04/2025	19:30	LB136011
	Zinc	16.7	+/-20	U	40.0	P	06/04/2025	19:30	LB136011
CCB05	Aluminum	11.3	+/-50	U	100	P	06/04/2025	20:16	LB136011
	Antimony	6.76	+/-25	U	50.0	P	06/04/2025	20:16	LB136011
	Arsenic	5.12	+/-10	U	20.0	P	06/04/2025	20:16	LB136011
	Barium	14.6	+/-50	U	100	P	06/04/2025	20:16	LB136011
	Beryllium	0.56	+/-3	U	6.00	P	06/04/2025	20:16	LB136011
	Cadmium	0.50	+/-3	U	6.00	P	06/04/2025	20:16	LB136011
	Calcium	234	+/-1000	U	2000	P	06/04/2025	20:16	LB136011
	Chromium	2.12	+/-5	U	10.0	P	06/04/2025	20:16	LB136011
	Cobalt	2.26	+/-15	U	30.0	P	06/04/2025	20:16	LB136011
	Copper	4.60	+/-10	U	20.0	P	06/04/2025	20:16	LB136011
	Iron	23.4	+/-50	U	100	P	06/04/2025	20:16	LB136011
	Lead	2.30	+/-6	U	12.0	P	06/04/2025	20:16	LB136011
	Magnesium	244	+/-1000	U	2000	P	06/04/2025	20:16	LB136011
	Manganese	5.94	+/-10	U	20.0	P	06/04/2025	20:16	LB136011
	Nickel	3.06	+/-20	U	40.0	P	06/04/2025	20:16	LB136011
	Potassium	918	+/-1000	U	2000	P	06/04/2025	20:16	LB136011
	Selenium	9.64	+/-10	U	20.0	P	06/04/2025	20:16	LB136011
	Silver	1.62	+/-5	U	10.0	P	06/04/2025	20:16	LB136011
	Sodium	868	+/-1000	U	2000	P	06/04/2025	20:16	LB136011
	Thallium	4.38	+/-20	U	40.0	P	06/04/2025	20:16	LB136011
	Vanadium	6.26	+/-20	U	40.0	P	06/04/2025	20:16	LB136011
	Zinc	16.7	+/-20	U	40.0	P	06/04/2025	20:16	LB136011
CCB06	Aluminum	11.3	+/-50	U	100	P	06/04/2025	21:02	LB136011
	Antimony	6.76	+/-25	U	50.0	P	06/04/2025	21:02	LB136011
	Arsenic	5.12	+/-10	U	20.0	P	06/04/2025	21:02	LB136011
	Barium	14.6	+/-50	U	100	P	06/04/2025	21:02	LB136011
	Beryllium	0.56	+/-3	U	6.00	P	06/04/2025	21:02	LB136011
	Cadmium	0.50	+/-3	U	6.00	P	06/04/2025	21:02	LB136011
	Calcium	234	+/-1000	U	2000	P	06/04/2025	21:02	LB136011

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q2198

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q2198 **SAS No.:** Q2198

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB06	Chromium	2.12	+/-5	U	10.0	P	06/04/2025	21:02	LB136011
	Cobalt	2.26	+/-15	U	30.0	P	06/04/2025	21:02	LB136011
	Copper	4.60	+/-10	U	20.0	P	06/04/2025	21:02	LB136011
	Iron	23.4	+/-50	U	100	P	06/04/2025	21:02	LB136011
	Lead	2.30	+/-6	U	12.0	P	06/04/2025	21:02	LB136011
	Magnesium	244	+/-1000	U	2000	P	06/04/2025	21:02	LB136011
	Manganese	5.94	+/-10	U	20.0	P	06/04/2025	21:02	LB136011
	Nickel	3.06	+/-20	U	40.0	P	06/04/2025	21:02	LB136011
	Potassium	918	+/-1000	U	2000	P	06/04/2025	21:02	LB136011
	Selenium	9.64	+/-10	U	20.0	P	06/04/2025	21:02	LB136011
	Silver	1.62	+/-5	U	10.0	P	06/04/2025	21:02	LB136011
	Sodium	868	+/-1000	U	2000	P	06/04/2025	21:02	LB136011
	Thallium	4.38	+/-20	U	40.0	P	06/04/2025	21:02	LB136011
	Vanadium	6.26	+/-20	U	40.0	P	06/04/2025	21:02	LB136011
	Zinc	16.7	+/-20	U	40.0	P	06/04/2025	21:02	LB136011
CCB07	Aluminum	11.3	+/-50	U	100	P	06/04/2025	21:45	LB136011
	Antimony	6.76	+/-25	U	50.0	P	06/04/2025	21:45	LB136011
	Arsenic	5.12	+/-10	U	20.0	P	06/04/2025	21:45	LB136011
	Barium	14.6	+/-50	U	100	P	06/04/2025	21:45	LB136011
	Beryllium	0.56	+/-3	U	6.00	P	06/04/2025	21:45	LB136011
	Cadmium	0.50	+/-3	U	6.00	P	06/04/2025	21:45	LB136011
	Calcium	234	+/-1000	U	2000	P	06/04/2025	21:45	LB136011
	Chromium	2.12	+/-5	U	10.0	P	06/04/2025	21:45	LB136011
	Cobalt	2.26	+/-15	U	30.0	P	06/04/2025	21:45	LB136011
	Copper	4.60	+/-10	U	20.0	P	06/04/2025	21:45	LB136011
	Iron	23.4	+/-50	U	100	P	06/04/2025	21:45	LB136011
	Lead	2.30	+/-6	U	12.0	P	06/04/2025	21:45	LB136011
	Magnesium	244	+/-1000	U	2000	P	06/04/2025	21:45	LB136011
	Manganese	5.94	+/-10	U	20.0	P	06/04/2025	21:45	LB136011
	Nickel	3.06	+/-20	U	40.0	P	06/04/2025	21:45	LB136011
	Potassium	918	+/-1000	U	2000	P	06/04/2025	21:45	LB136011
	Selenium	9.64	+/-10	U	20.0	P	06/04/2025	21:45	LB136011
	Silver	1.62	+/-5	U	10.0	P	06/04/2025	21:45	LB136011
	Sodium	868	+/-1000	U	2000	P	06/04/2025	21:45	LB136011
	Thallium	4.38	+/-20	U	40.0	P	06/04/2025	21:45	LB136011
	Vanadium	6.26	+/-20	U	40.0	P	06/04/2025	21:45	LB136011
	Zinc	16.7	+/-20	U	40.0	P	06/04/2025	21:45	LB136011
CCB08	Aluminum	11.3	+/-50	U	100	P	06/04/2025	22:10	LB136011
	Antimony	6.76	+/-25	U	50.0	P	06/04/2025	22:10	LB136011

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q2198

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q2198 **SAS No.:** Q2198

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB08	Arsenic	5.12	+/-10	U	20.0	P	06/04/2025	22:10	LB136011
	Barium	14.6	+/-50	U	100	P	06/04/2025	22:10	LB136011
	Beryllium	0.56	+/-3	U	6.00	P	06/04/2025	22:10	LB136011
	Cadmium	0.50	+/-3	U	6.00	P	06/04/2025	22:10	LB136011
	Calcium	234	+/-1000	U	2000	P	06/04/2025	22:10	LB136011
	Chromium	2.12	+/-5	U	10.0	P	06/04/2025	22:10	LB136011
	Cobalt	2.26	+/-15	U	30.0	P	06/04/2025	22:10	LB136011
	Copper	4.60	+/-10	U	20.0	P	06/04/2025	22:10	LB136011
	Iron	23.4	+/-50	U	100	P	06/04/2025	22:10	LB136011
	Lead	2.30	+/-6	U	12.0	P	06/04/2025	22:10	LB136011
	Magnesium	244	+/-1000	U	2000	P	06/04/2025	22:10	LB136011
	Manganese	5.94	+/-10	U	20.0	P	06/04/2025	22:10	LB136011
	Nickel	3.06	+/-20	U	40.0	P	06/04/2025	22:10	LB136011
	Potassium	918	+/-1000	U	2000	P	06/04/2025	22:10	LB136011
	Selenium	9.64	+/-10	U	20.0	P	06/04/2025	22:10	LB136011
	Silver	1.62	+/-5	U	10.0	P	06/04/2025	22:10	LB136011
	Sodium	868	+/-1000	U	2000	P	06/04/2025	22:10	LB136011
	Thallium	4.38	+/-20	U	40.0	P	06/04/2025	22:10	LB136011
	Vanadium	6.26	+/-20	U	40.0	P	06/04/2025	22:10	LB136011
	Zinc	16.7	+/-20	U	40.0	P	06/04/2025	22:10	LB136011

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q2198

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q2198 **SAS No.:** Q2198

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB01	Aluminum	11.3	+/-50	U	100	P	06/05/2025	16:14	LB136035
	Antimony	6.76	+/-25	U	50.0	P	06/05/2025	16:14	LB136035
	Arsenic	5.12	+/-10	U	20.0	P	06/05/2025	16:14	LB136035
	Barium	14.6	+/-50	U	100	P	06/05/2025	16:14	LB136035
	Beryllium	0.56	+/-3	U	6.00	P	06/05/2025	16:14	LB136035
	Cadmium	0.50	+/-3	U	6.00	P	06/05/2025	16:14	LB136035
	Calcium	234	+/-1000	U	2000	P	06/05/2025	16:14	LB136035
	Chromium	2.12	+/-5	U	10.0	P	06/05/2025	16:14	LB136035
	Cobalt	2.26	+/-15	U	30.0	P	06/05/2025	16:14	LB136035
	Copper	4.60	+/-10	U	20.0	P	06/05/2025	16:14	LB136035
	Iron	23.4	+/-50	U	100	P	06/05/2025	16:14	LB136035
	Lead	2.30	+/-6	U	12.0	P	06/05/2025	16:14	LB136035
	Magnesium	244	+/-1000	U	2000	P	06/05/2025	16:14	LB136035
	Manganese	5.94	+/-10	U	20.0	P	06/05/2025	16:14	LB136035
	Nickel	3.06	+/-20	U	40.0	P	06/05/2025	16:14	LB136035
	Potassium	918	+/-1000	U	2000	P	06/05/2025	16:14	LB136035
	Selenium	9.64	+/-10	U	20.0	P	06/05/2025	16:14	LB136035
	Silver	1.62	+/-5	U	10.0	P	06/05/2025	16:14	LB136035
	Sodium	868	+/-1000	U	2000	P	06/05/2025	16:14	LB136035
	Thallium	4.38	+/-20	U	40.0	P	06/05/2025	16:14	LB136035
	Vanadium	6.26	+/-20	U	40.0	P	06/05/2025	16:14	LB136035
	Zinc	16.7	+/-20	U	40.0	P	06/05/2025	16:14	LB136035

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q2198

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q2198 **SAS No.:** Q2198

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB01	Aluminum	11.3	+/-50	U	100	P	06/05/2025	16:54	LB136035
	Antimony	6.76	+/-25	U	50.0	P	06/05/2025	16:54	LB136035
	Arsenic	5.12	+/-10	U	20.0	P	06/05/2025	16:54	LB136035
	Barium	14.6	+/-50	U	100	P	06/05/2025	16:54	LB136035
	Beryllium	0.56	+/-3	U	6.00	P	06/05/2025	16:54	LB136035
	Cadmium	0.50	+/-3	U	6.00	P	06/05/2025	16:54	LB136035
	Calcium	234	+/-1000	U	2000	P	06/05/2025	16:54	LB136035
	Chromium	2.12	+/-5	U	10.0	P	06/05/2025	16:54	LB136035
	Cobalt	2.26	+/-15	U	30.0	P	06/05/2025	16:54	LB136035
	Copper	4.60	+/-10	U	20.0	P	06/05/2025	16:54	LB136035
	Iron	23.4	+/-50	U	100	P	06/05/2025	16:54	LB136035
	Lead	2.30	+/-6	U	12.0	P	06/05/2025	16:54	LB136035
	Magnesium	244	+/-1000	U	2000	P	06/05/2025	16:54	LB136035
	Manganese	5.94	+/-10	U	20.0	P	06/05/2025	16:54	LB136035
	Nickel	3.06	+/-20	U	40.0	P	06/05/2025	16:54	LB136035
	Potassium	918	+/-1000	U	2000	P	06/05/2025	16:54	LB136035
	Selenium	9.64	+/-10	U	20.0	P	06/05/2025	16:54	LB136035
	Silver	1.62	+/-5	U	10.0	P	06/05/2025	16:54	LB136035
	Sodium	868	+/-1000	U	2000	P	06/05/2025	16:54	LB136035
	Thallium	4.38	+/-20	U	40.0	P	06/05/2025	16:54	LB136035
	Vanadium	6.26	+/-20	U	40.0	P	06/05/2025	16:54	LB136035
	Zinc	16.7	+/-20	U	40.0	P	06/05/2025	16:54	LB136035
CCB02	Aluminum	11.3	+/-50	U	100	P	06/05/2025	17:50	LB136035
	Antimony	6.76	+/-25	U	50.0	P	06/05/2025	17:50	LB136035
	Arsenic	5.12	+/-10	U	20.0	P	06/05/2025	17:50	LB136035
	Barium	14.6	+/-50	U	100	P	06/05/2025	17:50	LB136035
	Beryllium	0.56	+/-3	U	6.00	P	06/05/2025	17:50	LB136035
	Cadmium	0.50	+/-3	U	6.00	P	06/05/2025	17:50	LB136035
	Calcium	234	+/-1000	U	2000	P	06/05/2025	17:50	LB136035
	Chromium	2.12	+/-5	U	10.0	P	06/05/2025	17:50	LB136035
	Cobalt	2.26	+/-15	U	30.0	P	06/05/2025	17:50	LB136035
	Copper	4.60	+/-10	U	20.0	P	06/05/2025	17:50	LB136035
	Iron	23.4	+/-50	U	100	P	06/05/2025	17:50	LB136035
	Lead	2.30	+/-6	U	12.0	P	06/05/2025	17:50	LB136035
	Magnesium	244	+/-1000	U	2000	P	06/05/2025	17:50	LB136035
	Manganese	5.94	+/-10	U	20.0	P	06/05/2025	17:50	LB136035
	Nickel	3.06	+/-20	U	40.0	P	06/05/2025	17:50	LB136035
	Potassium	918	+/-1000	U	2000	P	06/05/2025	17:50	LB136035
	Selenium	9.64	+/-10	U	20.0	P	06/05/2025	17:50	LB136035

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q2198

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q2198 **SAS No.:** Q2198

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB02	Silver	1.62	+/-5	U	10.0	P	06/05/2025	17:50	LB136035
	Sodium	868	+/-1000	U	2000	P	06/05/2025	17:50	LB136035
	Thallium	4.38	+/-20	U	40.0	P	06/05/2025	17:50	LB136035
	Vanadium	6.26	+/-20	U	40.0	P	06/05/2025	17:50	LB136035
	Zinc	16.7	+/-20	U	40.0	P	06/05/2025	17:50	LB136035
CCB03	Aluminum	11.3	+/-50	U	100	P	06/05/2025	19:47	LB136035
	Antimony	6.76	+/-25	U	50.0	P	06/05/2025	19:47	LB136035
	Arsenic	5.12	+/-10	U	20.0	P	06/05/2025	19:47	LB136035
	Barium	14.6	+/-50	U	100	P	06/05/2025	19:47	LB136035
	Beryllium	0.56	+/-3	U	6.00	P	06/05/2025	19:47	LB136035
	Cadmium	0.50	+/-3	U	6.00	P	06/05/2025	19:47	LB136035
	Calcium	234	+/-1000	U	2000	P	06/05/2025	19:47	LB136035
	Chromium	2.12	+/-5	U	10.0	P	06/05/2025	19:47	LB136035
	Cobalt	2.26	+/-15	U	30.0	P	06/05/2025	19:47	LB136035
	Copper	4.60	+/-10	U	20.0	P	06/05/2025	19:47	LB136035
	Iron	23.4	+/-50	U	100	P	06/05/2025	19:47	LB136035
	Lead	2.30	+/-6	U	12.0	P	06/05/2025	19:47	LB136035
	Magnesium	244	+/-1000	U	2000	P	06/05/2025	19:47	LB136035
	Manganese	5.94	+/-10	U	20.0	P	06/05/2025	19:47	LB136035
	Nickel	3.06	+/-20	U	40.0	P	06/05/2025	19:47	LB136035
	Potassium	918	+/-1000	U	2000	P	06/05/2025	19:47	LB136035
	Selenium	9.64	+/-10	U	20.0	P	06/05/2025	19:47	LB136035
	Silver	1.62	+/-5	U	10.0	P	06/05/2025	19:47	LB136035
	Sodium	868	+/-1000	U	2000	P	06/05/2025	19:47	LB136035
	Thallium	4.38	+/-20	U	40.0	P	06/05/2025	19:47	LB136035
	Vanadium	6.26	+/-20	U	40.0	P	06/05/2025	19:47	LB136035
	Zinc	16.7	+/-20	U	40.0	P	06/05/2025	19:47	LB136035
CCB04	Aluminum	11.3	+/-50	U	100	P	06/05/2025	20:32	LB136035
	Antimony	6.76	+/-25	U	50.0	P	06/05/2025	20:32	LB136035
	Arsenic	5.12	+/-10	U	20.0	P	06/05/2025	20:32	LB136035
	Barium	14.6	+/-50	U	100	P	06/05/2025	20:32	LB136035
	Beryllium	0.56	+/-3	U	6.00	P	06/05/2025	20:32	LB136035
	Cadmium	0.50	+/-3	U	6.00	P	06/05/2025	20:32	LB136035
	Calcium	234	+/-1000	U	2000	P	06/05/2025	20:32	LB136035
	Chromium	2.12	+/-5	U	10.0	P	06/05/2025	20:32	LB136035
	Cobalt	2.26	+/-15	U	30.0	P	06/05/2025	20:32	LB136035
	Copper	4.60	+/-10	U	20.0	P	06/05/2025	20:32	LB136035
	Iron	23.4	+/-50	U	100	P	06/05/2025	20:32	LB136035
	Lead	2.30	+/-6	U	12.0	P	06/05/2025	20:32	LB136035

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q2198

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q2198 **SAS No.:** Q2198

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB04	Magnesium	244	+/-1000	U	2000	P	06/05/2025	20:32	LB136035
	Manganese	5.94	+/-10	U	20.0	P	06/05/2025	20:32	LB136035
	Nickel	3.06	+/-20	U	40.0	P	06/05/2025	20:32	LB136035
	Potassium	918	+/-1000	U	2000	P	06/05/2025	20:32	LB136035
	Selenium	9.64	+/-10	U	20.0	P	06/05/2025	20:32	LB136035
	Silver	1.62	+/-5	U	10.0	P	06/05/2025	20:32	LB136035
	Sodium	868	+/-1000	U	2000	P	06/05/2025	20:32	LB136035
	Thallium	4.38	+/-20	U	40.0	P	06/05/2025	20:32	LB136035
	Vanadium	6.26	+/-20	U	40.0	P	06/05/2025	20:32	LB136035
	Zinc	16.7	+/-20	U	40.0	P	06/05/2025	20:32	LB136035
CCB05	Aluminum	11.3	+/-50	U	100	P	06/05/2025	23:56	LB136035
	Antimony	6.76	+/-25	U	50.0	P	06/05/2025	23:56	LB136035
	Arsenic	5.12	+/-10	U	20.0	P	06/05/2025	23:56	LB136035
	Barium	14.6	+/-50	U	100	P	06/05/2025	23:56	LB136035
	Beryllium	0.56	+/-3	U	6.00	P	06/05/2025	23:56	LB136035
	Cadmium	0.50	+/-3	U	6.00	P	06/05/2025	23:56	LB136035
	Calcium	234	+/-1000	U	2000	P	06/05/2025	23:56	LB136035
	Chromium	2.12	+/-5	U	10.0	P	06/05/2025	23:56	LB136035
	Cobalt	2.26	+/-15	U	30.0	P	06/05/2025	23:56	LB136035
	Copper	4.60	+/-10	U	20.0	P	06/05/2025	23:56	LB136035
	Iron	23.4	+/-50	U	100	P	06/05/2025	23:56	LB136035
	Lead	2.30	+/-6	U	12.0	P	06/05/2025	23:56	LB136035
	Magnesium	244	+/-1000	U	2000	P	06/05/2025	23:56	LB136035
	Manganese	5.94	+/-10	U	20.0	P	06/05/2025	23:56	LB136035
	Nickel	3.06	+/-20	U	40.0	P	06/05/2025	23:56	LB136035
	Potassium	918	+/-1000	U	2000	P	06/05/2025	23:56	LB136035
	Selenium	9.64	+/-10	U	20.0	P	06/05/2025	23:56	LB136035
	Silver	1.62	+/-5	U	10.0	P	06/05/2025	23:56	LB136035
	Sodium	868	+/-1000	U	2000	P	06/05/2025	23:56	LB136035
	Thallium	4.38	+/-20	U	40.0	P	06/05/2025	23:56	LB136035
	Vanadium	6.26	+/-20	U	40.0	P	06/05/2025	23:56	LB136035
	Zinc	16.7	+/-20	U	40.0	P	06/05/2025	23:56	LB136035

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q2198

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q2198 **SAS No.:** Q2198

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB01	Aluminum	11.3	+/-50	U	100	P	06/06/2025	13:33	LB136052
	Antimony	6.76	+/-25	U	50.0	P	06/06/2025	13:33	LB136052
	Arsenic	5.12	+/-10	U	20.0	P	06/06/2025	13:33	LB136052
	Barium	14.6	+/-50	U	100	P	06/06/2025	13:33	LB136052
	Beryllium	0.56	+/-3	U	6.00	P	06/06/2025	13:33	LB136052
	Cadmium	0.50	+/-3	U	6.00	P	06/06/2025	13:33	LB136052
	Calcium	234	+/-1000	U	2000	P	06/06/2025	13:33	LB136052
	Chromium	2.12	+/-5	U	10.0	P	06/06/2025	13:33	LB136052
	Cobalt	2.26	+/-15	U	30.0	P	06/06/2025	13:33	LB136052
	Copper	4.60	+/-10	U	20.0	P	06/06/2025	13:33	LB136052
	Iron	23.4	+/-50	U	100	P	06/06/2025	13:33	LB136052
	Lead	2.30	+/-6	U	12.0	P	06/06/2025	13:33	LB136052
	Magnesium	244	+/-1000	U	2000	P	06/06/2025	13:33	LB136052
	Manganese	5.94	+/-10	U	20.0	P	06/06/2025	13:33	LB136052
	Nickel	3.06	+/-20	U	40.0	P	06/06/2025	13:33	LB136052
	Potassium	918	+/-1000	U	2000	P	06/06/2025	13:33	LB136052
	Selenium	9.64	+/-10	U	20.0	P	06/06/2025	13:33	LB136052
	Silver	1.62	+/-5	U	10.0	P	06/06/2025	13:33	LB136052
	Sodium	868	+/-1000	U	2000	P	06/06/2025	13:33	LB136052
	Thallium	4.38	+/-20	U	40.0	P	06/06/2025	13:33	LB136052
	Vanadium	6.26	+/-20	U	40.0	P	06/06/2025	13:33	LB136052
	Zinc	16.7	+/-20	U	40.0	P	06/06/2025	13:33	LB136052

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- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q2198

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q2198 **SAS No.:** Q2198

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB01	Aluminum	11.3	+/-50	U	100	P	06/06/2025	14:09	LB136052
	Antimony	6.76	+/-25	U	50.0	P	06/06/2025	14:09	LB136052
	Arsenic	5.12	+/-10	U	20.0	P	06/06/2025	14:09	LB136052
	Barium	14.6	+/-50	U	100	P	06/06/2025	14:09	LB136052
	Beryllium	0.56	+/-3	U	6.00	P	06/06/2025	14:09	LB136052
	Cadmium	0.50	+/-3	U	6.00	P	06/06/2025	14:09	LB136052
	Calcium	234	+/-1000	U	2000	P	06/06/2025	14:09	LB136052
	Chromium	2.12	+/-5	U	10.0	P	06/06/2025	14:09	LB136052
	Cobalt	2.26	+/-15	U	30.0	P	06/06/2025	14:09	LB136052
	Copper	4.60	+/-10	U	20.0	P	06/06/2025	14:09	LB136052
	Iron	23.4	+/-50	U	100	P	06/06/2025	14:09	LB136052
	Lead	2.30	+/-6	U	12.0	P	06/06/2025	14:09	LB136052
	Magnesium	244	+/-1000	U	2000	P	06/06/2025	14:09	LB136052
	Manganese	5.94	+/-10	U	20.0	P	06/06/2025	14:09	LB136052
	Nickel	3.06	+/-20	U	40.0	P	06/06/2025	14:09	LB136052
	Potassium	918	+/-1000	U	2000	P	06/06/2025	14:09	LB136052
	Selenium	9.64	+/-10	U	20.0	P	06/06/2025	14:09	LB136052
	Silver	1.62	+/-5	U	10.0	P	06/06/2025	14:09	LB136052
	Sodium	868	+/-1000	U	2000	P	06/06/2025	14:09	LB136052
	Thallium	4.38	+/-20	U	40.0	P	06/06/2025	14:09	LB136052
	Vanadium	6.26	+/-20	U	40.0	P	06/06/2025	14:09	LB136052
	Zinc	16.7	+/-20	U	40.0	P	06/06/2025	14:09	LB136052
CCB02	Aluminum	11.3	+/-50	U	100	P	06/06/2025	15:00	LB136052
	Antimony	6.76	+/-25	U	50.0	P	06/06/2025	15:00	LB136052
	Arsenic	5.12	+/-10	U	20.0	P	06/06/2025	15:00	LB136052
	Barium	14.6	+/-50	U	100	P	06/06/2025	15:00	LB136052
	Beryllium	0.56	+/-3	U	6.00	P	06/06/2025	15:00	LB136052
	Cadmium	0.50	+/-3	U	6.00	P	06/06/2025	15:00	LB136052
	Calcium	234	+/-1000	U	2000	P	06/06/2025	15:00	LB136052
	Chromium	2.12	+/-5	U	10.0	P	06/06/2025	15:00	LB136052
	Cobalt	2.26	+/-15	U	30.0	P	06/06/2025	15:00	LB136052
	Copper	4.60	+/-10	U	20.0	P	06/06/2025	15:00	LB136052
	Iron	23.4	+/-50	U	100	P	06/06/2025	15:00	LB136052
	Lead	2.30	+/-6	U	12.0	P	06/06/2025	15:00	LB136052
	Magnesium	244	+/-1000	U	2000	P	06/06/2025	15:00	LB136052
	Manganese	5.94	+/-10	U	20.0	P	06/06/2025	15:00	LB136052
	Nickel	3.06	+/-20	U	40.0	P	06/06/2025	15:00	LB136052
	Potassium	918	+/-1000	U	2000	P	06/06/2025	15:00	LB136052
	Selenium	9.64	+/-10	U	20.0	P	06/06/2025	15:00	LB136052

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q2198

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q2198 **SAS No.:** Q2198

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB02	Silver	1.62	+/-5	U	10.0	P	06/06/2025	15:00	LB136052
	Sodium	868	+/-1000	U	2000	P	06/06/2025	15:00	LB136052
	Thallium	4.38	+/-20	U	40.0	P	06/06/2025	15:00	LB136052
	Vanadium	6.26	+/-20	U	40.0	P	06/06/2025	15:00	LB136052
	Zinc	16.7	+/-20	U	40.0	P	06/06/2025	15:00	LB136052
CCB03	Aluminum	11.3	+/-50	U	100	P	06/06/2025	15:57	LB136052
	Antimony	6.76	+/-25	U	50.0	P	06/06/2025	15:57	LB136052
	Arsenic	5.12	+/-10	U	20.0	P	06/06/2025	15:57	LB136052
	Barium	14.6	+/-50	U	100	P	06/06/2025	15:57	LB136052
	Beryllium	0.56	+/-3	U	6.00	P	06/06/2025	15:57	LB136052
	Cadmium	0.50	+/-3	U	6.00	P	06/06/2025	15:57	LB136052
	Calcium	234	+/-1000	U	2000	P	06/06/2025	15:57	LB136052
	Chromium	2.12	+/-5	U	10.0	P	06/06/2025	15:57	LB136052
	Cobalt	2.26	+/-15	U	30.0	P	06/06/2025	15:57	LB136052
	Copper	4.60	+/-10	U	20.0	P	06/06/2025	15:57	LB136052
	Iron	23.4	+/-50	U	100	P	06/06/2025	15:57	LB136052
	Lead	2.30	+/-6	U	12.0	P	06/06/2025	15:57	LB136052
	Magnesium	244	+/-1000	U	2000	P	06/06/2025	15:57	LB136052
	Manganese	5.94	+/-10	U	20.0	P	06/06/2025	15:57	LB136052
	Nickel	3.06	+/-20	U	40.0	P	06/06/2025	15:57	LB136052
	Potassium	918	+/-1000	U	2000	P	06/06/2025	15:57	LB136052
	Selenium	9.64	+/-10	U	20.0	P	06/06/2025	15:57	LB136052
	Silver	1.62	+/-5	U	10.0	P	06/06/2025	15:57	LB136052
	Sodium	868	+/-1000	U	2000	P	06/06/2025	15:57	LB136052
	Thallium	4.38	+/-20	U	40.0	P	06/06/2025	15:57	LB136052
	Vanadium	6.26	+/-20	U	40.0	P	06/06/2025	15:57	LB136052
	Zinc	16.7	+/-20	U	40.0	P	06/06/2025	15:57	LB136052
CCB04	Aluminum	11.3	+/-50	U	100	P	06/06/2025	16:51	LB136052
	Antimony	6.76	+/-25	U	50.0	P	06/06/2025	16:51	LB136052
	Arsenic	5.12	+/-10	U	20.0	P	06/06/2025	16:51	LB136052
	Barium	14.6	+/-50	U	100	P	06/06/2025	16:51	LB136052
	Beryllium	0.56	+/-3	U	6.00	P	06/06/2025	16:51	LB136052
	Cadmium	0.50	+/-3	U	6.00	P	06/06/2025	16:51	LB136052
	Calcium	234	+/-1000	U	2000	P	06/06/2025	16:51	LB136052
	Chromium	2.12	+/-5	U	10.0	P	06/06/2025	16:51	LB136052
	Cobalt	2.26	+/-15	U	30.0	P	06/06/2025	16:51	LB136052
	Copper	4.60	+/-10	U	20.0	P	06/06/2025	16:51	LB136052
	Iron	23.4	+/-50	U	100	P	06/06/2025	16:51	LB136052
	Lead	2.30	+/-6	U	12.0	P	06/06/2025	16:51	LB136052

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q2198

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q2198 **SAS No.:** Q2198

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB04	Magnesium	244	+/-1000	U	2000	P	06/06/2025	16:51	LB136052
	Manganese	5.94	+/-10	U	20.0	P	06/06/2025	16:51	LB136052
	Nickel	3.06	+/-20	U	40.0	P	06/06/2025	16:51	LB136052
	Potassium	918	+/-1000	U	2000	P	06/06/2025	16:51	LB136052
	Selenium	9.64	+/-10	U	20.0	P	06/06/2025	16:51	LB136052
	Silver	1.62	+/-5	U	10.0	P	06/06/2025	16:51	LB136052
	Sodium	868	+/-1000	U	2000	P	06/06/2025	16:51	LB136052
	Thallium	4.38	+/-20	U	40.0	P	06/06/2025	16:51	LB136052
	Vanadium	6.26	+/-20	U	40.0	P	06/06/2025	16:51	LB136052
	Zinc	16.7	+/-20	U	40.0	P	06/06/2025	16:51	LB136052
CCB05	Aluminum	11.3	+/-50	U	100	P	06/06/2025	17:46	LB136052
	Antimony	6.76	+/-25	U	50.0	P	06/06/2025	17:46	LB136052
	Arsenic	5.12	+/-10	U	20.0	P	06/06/2025	17:46	LB136052
	Barium	14.6	+/-50	U	100	P	06/06/2025	17:46	LB136052
	Beryllium	0.56	+/-3	U	6.00	P	06/06/2025	17:46	LB136052
	Cadmium	0.50	+/-3	U	6.00	P	06/06/2025	17:46	LB136052
	Calcium	234	+/-1000	U	2000	P	06/06/2025	17:46	LB136052
	Chromium	2.12	+/-5	U	10.0	P	06/06/2025	17:46	LB136052
	Cobalt	2.26	+/-15	U	30.0	P	06/06/2025	17:46	LB136052
	Copper	4.60	+/-10	U	20.0	P	06/06/2025	17:46	LB136052
	Iron	23.4	+/-50	U	100	P	06/06/2025	17:46	LB136052
	Lead	2.30	+/-6	U	12.0	P	06/06/2025	17:46	LB136052
	Magnesium	244	+/-1000	U	2000	P	06/06/2025	17:46	LB136052
	Manganese	5.94	+/-10	U	20.0	P	06/06/2025	17:46	LB136052
	Nickel	3.06	+/-20	U	40.0	P	06/06/2025	17:46	LB136052
	Potassium	918	+/-1000	U	2000	P	06/06/2025	17:46	LB136052
	Selenium	9.64	+/-10	U	20.0	P	06/06/2025	17:46	LB136052
	Silver	1.62	+/-5	U	10.0	P	06/06/2025	17:46	LB136052
	Sodium	868	+/-1000	U	2000	P	06/06/2025	17:46	LB136052
	Thallium	4.38	+/-20	U	40.0	P	06/06/2025	17:46	LB136052
	Vanadium	6.26	+/-20	U	40.0	P	06/06/2025	17:46	LB136052
	Zinc	16.7	+/-20	U	40.0	P	06/06/2025	17:46	LB136052
CCB06	Aluminum	11.3	+/-50	U	100	P	06/07/2025	03:07	LB136052
	Antimony	6.76	+/-25	U	50.0	P	06/07/2025	03:07	LB136052
	Arsenic	5.12	+/-10	U	20.0	P	06/07/2025	03:07	LB136052
	Barium	14.6	+/-50	U	100	P	06/07/2025	03:07	LB136052
	Beryllium	0.56	+/-3	U	6.00	P	06/07/2025	03:07	LB136052
	Cadmium	0.50	+/-3	U	6.00	P	06/07/2025	03:07	LB136052
	Calcium	234	+/-1000	U	2000	P	06/07/2025	03:07	LB136052

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q2198

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q2198 **SAS No.:** Q2198

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB06	Chromium	2.12	+/-5	U	10.0	P	06/07/2025	03:07	LB136052
	Cobalt	2.26	+/-15	U	30.0	P	06/07/2025	03:07	LB136052
	Copper	4.60	+/-10	U	20.0	P	06/07/2025	03:07	LB136052
	Iron	23.4	+/-50	U	100	P	06/07/2025	03:07	LB136052
	Lead	2.30	+/-6	U	12.0	P	06/07/2025	03:07	LB136052
	Magnesium	244	+/-1000	U	2000	P	06/07/2025	03:07	LB136052
	Manganese	5.94	+/-10	U	20.0	P	06/07/2025	03:07	LB136052
	Nickel	3.06	+/-20	U	40.0	P	06/07/2025	03:07	LB136052
	Potassium	918	+/-1000	U	2000	P	06/07/2025	03:07	LB136052
	Selenium	9.64	+/-10	U	20.0	P	06/07/2025	03:07	LB136052
	Silver	1.62	+/-5	U	10.0	P	06/07/2025	03:07	LB136052
	Sodium	868	+/-1000	U	2000	P	06/07/2025	03:07	LB136052
	Thallium	5.29	+/-20	J	40.0	P	06/07/2025	03:07	LB136052
	Vanadium	6.26	+/-20	U	40.0	P	06/07/2025	03:07	LB136052
	Zinc	16.7	+/-20	U	40.0	P	06/07/2025	03:07	LB136052
CCB07	Aluminum	13.6	+/-50	J	100	P	06/07/2025	03:44	LB136052
	Antimony	6.76	+/-25	U	50.0	P	06/07/2025	03:44	LB136052
	Arsenic	5.12	+/-10	U	20.0	P	06/07/2025	03:44	LB136052
	Barium	14.6	+/-50	U	100	P	06/07/2025	03:44	LB136052
	Beryllium	0.56	+/-3	U	6.00	P	06/07/2025	03:44	LB136052
	Cadmium	0.50	+/-3	U	6.00	P	06/07/2025	03:44	LB136052
	Calcium	234	+/-1000	U	2000	P	06/07/2025	03:44	LB136052
	Chromium	2.12	+/-5	U	10.0	P	06/07/2025	03:44	LB136052
	Cobalt	2.26	+/-15	U	30.0	P	06/07/2025	03:44	LB136052
	Copper	4.60	+/-10	U	20.0	P	06/07/2025	03:44	LB136052
	Iron	23.4	+/-50	U	100	P	06/07/2025	03:44	LB136052
	Lead	2.30	+/-6	U	12.0	P	06/07/2025	03:44	LB136052
	Magnesium	244	+/-1000	U	2000	P	06/07/2025	03:44	LB136052
	Manganese	5.94	+/-10	U	20.0	P	06/07/2025	03:44	LB136052
	Nickel	3.06	+/-20	U	40.0	P	06/07/2025	03:44	LB136052
	Potassium	918	+/-1000	U	2000	P	06/07/2025	03:44	LB136052
	Selenium	9.64	+/-10	U	20.0	P	06/07/2025	03:44	LB136052
	Silver	1.62	+/-5	U	10.0	P	06/07/2025	03:44	LB136052
	Sodium	868	+/-1000	U	2000	P	06/07/2025	03:44	LB136052
	Thallium	6.19	+/-20	J	40.0	P	06/07/2025	03:44	LB136052
	Vanadium	6.26	+/-20	U	40.0	P	06/07/2025	03:44	LB136052
	Zinc	16.7	+/-20	U	40.0	P	06/07/2025	03:44	LB136052

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Metals
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PREPARATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q2198

Instrument: CV1

Sample ID	Analyte	Result (mg/Kg)	Acceptance Limit	Conc Qual	CRQL mg/Kg	M	Analysis Date	Analysis Time	Run
PB168290BL		**SOLID**		**Batch Number:**	**PB168290**		**Prep Date:**	**06/04/2025**	
	Mercury	0.0070	<0.013	U	0.013	CV	06/04/2025	15:33	LB136001

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB168317BL		**WATER**		**Batch Number:**	**PB168317**		**Prep Date:**	**06/05/2025**	
	Mercury	0.076	<0.2	U	0.20	CV	06/06/2025	11:16	LB136036

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Metals
- 3b -
PREPARATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q2198

Instrument: P4

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB168276BL		**WATER**		**Batch Number:**	**PB168276**		**Prep Date:**	**06/04/2025**	
	Aluminum	5.67	<25	U	50.0	P	06/04/2025	20:46	LB136011
	Antimony	3.38	<12.5	U	25.0	P	06/04/2025	20:46	LB136011
	Arsenic	2.56	<5	U	10.0	P	06/04/2025	20:46	LB136011
	Barium	7.28	<25	U	50.0	P	06/04/2025	20:46	LB136011
	Beryllium	0.28	<1.5	U	3.00	P	06/04/2025	20:46	LB136011
	Cadmium	0.25	<1.5	U	3.00	P	06/04/2025	20:46	LB136011
	Calcium	117	<500	U	1000	P	06/04/2025	20:46	LB136011
	Chromium	1.06	<2.5	U	5.00	P	06/04/2025	20:46	LB136011
	Cobalt	1.13	<7.5	U	15.0	P	06/04/2025	20:46	LB136011
	Copper	2.30	<5	U	10.0	P	06/04/2025	20:46	LB136011
	Iron	11.7	<25	U	50.0	P	06/04/2025	20:46	LB136011
	Lead	1.15	<3	U	6.00	P	06/04/2025	20:46	LB136011
	Magnesium	122	<500	U	1000	P	06/04/2025	20:46	LB136011
	Manganese	2.97	<5	U	10.0	P	06/04/2025	20:46	LB136011
	Nickel	1.53	<10	U	20.0	P	06/04/2025	20:46	LB136011
	Potassium	459	<500	U	1000	P	06/04/2025	20:46	LB136011
	Selenium	4.82	<5	U	10.0	P	06/04/2025	20:46	LB136011
	Silver	0.81	<2.5	U	5.00	P	06/04/2025	20:46	LB136011
	Sodium	434	<500	U	1000	P	06/04/2025	20:46	LB136011
	Thallium	2.19	<10	U	20.0	P	06/04/2025	20:46	LB136011
	Vanadium	3.13	<10	U	20.0	P	06/04/2025	20:46	LB136011
	Zinc	8.33	<10	U	20.0	P	06/04/2025	20:46	LB136011

Sample ID	Analyte	Result (mg/Kg)	Acceptance Limit	Conc Qual	CRQL mg/Kg	M	Analysis Date	Analysis Time	Run
PB168279BL		**SOLID**		**Batch Number:**	**PB168279**		**Prep Date:**	**06/04/2025**	
	Aluminum	0.84	<2.5	U	5.00	P	06/06/2025	14:13	LB136052
	Antimony	0.22	<1.25	U	2.50	P	06/06/2025	14:13	LB136052
	Arsenic	0.19	<0.5	U	1.00	P	06/06/2025	14:13	LB136052
	Barium	0.73	<2.5	U	5.00	P	06/06/2025	14:13	LB136052
	Beryllium	0.025	<0.15	U	0.30	P	06/06/2025	14:13	LB136052
	Cadmium	0.024	<0.15	U	0.30	P	06/06/2025	14:13	LB136052
	Calcium	11.1	<50	U	100	P	06/06/2025	14:13	LB136052
	Chromium	0.047	<0.25	U	0.50	P	06/06/2025	14:13	LB136052
	Cobalt	0.10	<0.75	U	1.50	P	06/06/2025	14:13	LB136052
	Copper	0.22	<0.5	U	1.00	P	06/06/2025	14:13	LB136052
	Iron	3.99	<2.5	U	5.00	P	06/06/2025	14:13	LB136052
	Lead	0.13	<0.3	U	0.60	P	06/06/2025	14:13	LB136052
	Magnesium	12.0	<50	U	100	P	06/06/2025	14:13	LB136052
	Manganese	0.14	<0.5	U	1.00	P	06/06/2025	14:13	LB136052
	Nickel	0.13	<1	U	2.00	P	06/06/2025	14:13	LB136052

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Metals
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PREPARATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q2198

Instrument: P4

Potassium	27.7	<50	U	100	P	06/06/2025	14:13	LB136052
Selenium	0.26	<0.5	U	1.00	P	06/06/2025	14:13	LB136052
Silver	0.12	<0.25	U	0.50	P	06/06/2025	14:13	LB136052
Sodium	17.8	<50	U	100	P	06/06/2025	14:13	LB136052
Thallium	0.23	<1	U	2.00	P	06/06/2025	14:13	LB136052
Vanadium	0.25	<1	U	2.00	P	06/06/2025	14:13	LB136052
Zinc	0.23	<1	U	2.00	P	06/06/2025	14:13	LB136052

METAL CALIBRATION DATA

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q2198

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q2198 **SAS No.:** Q2198

Initial Calibration Source: EPA

Continuing Calibration Source: PLASMA-PURE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV27	Mercury	4.19	4.0	105	90 - 110	CV	06/04/2025	15:04	LB136001

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q2198

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q2198 **SAS No.:** Q2198

Initial Calibration Source: EPA

Continuing Calibration Source: PLASMA-PURE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV01	Mercury	4.99	5.0	100	90 - 110	CV	06/04/2025	15:09	LB136001
CCV02	Mercury	5.14	5.0	103	90 - 110	CV	06/04/2025	15:59	LB136001
CCV03	Mercury	5.22	5.0	104	90 - 110	CV	06/04/2025	16:27	LB136001

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q2198

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q2198 **SAS No.:** Q2198

Initial Calibration Source: EPA

Continuing Calibration Source: PLASMA-PURE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV29	Mercury	3.69	4.0	92	90 - 110	CV	06/06/2025	10:03	LB136036

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q2198

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q2198 **SAS No.:** Q2198

Initial Calibration Source: EPA

Continuing Calibration Source: PLASMA-PURE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV08	Mercury	4.74	5.0	95	90 - 110	CV	06/06/2025	10:07	LB136036
CCV09	Mercury	4.88	5.0	98	90 - 110	CV	06/06/2025	10:37	LB136036
CCV10	Mercury	4.71	5.0	94	90 - 110	CV	06/06/2025	11:04	LB136036
CCV11	Mercury	4.55	5.0	91	90 - 110	CV	06/06/2025	11:41	LB136036
CCV12	Mercury	4.77	5.0	96	90 - 110	CV	06/06/2025	12:06	LB136036
CCV13	Mercury	5.10	5.0	102	90 - 110	CV	06/06/2025	12:33	LB136036

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q2198

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q2198 **SAS No.:** Q2198

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV01	Aluminum	2470	2500	99	90 - 110	P	06/04/2025	15:49	LB136011
	Antimony	1020	1000	102	90 - 110	P	06/04/2025	15:49	LB136011
	Arsenic	1000	1000	100	90 - 110	P	06/04/2025	15:49	LB136011
	Barium	552	520	106	90 - 110	P	06/04/2025	15:49	LB136011
	Beryllium	472	510	92	90 - 110	P	06/04/2025	15:49	LB136011
	Cadmium	500	510	98	90 - 110	P	06/04/2025	15:49	LB136011
	Calcium	9520	10000	95	90 - 110	P	06/04/2025	15:49	LB136011
	Chromium	518	520	100	90 - 110	P	06/04/2025	15:49	LB136011
	Cobalt	521	520	100	90 - 110	P	06/04/2025	15:49	LB136011
	Copper	527	510	103	90 - 110	P	06/04/2025	15:49	LB136011
	Iron	10100	10000	100	90 - 110	P	06/04/2025	15:49	LB136011
	Lead	976	1000	98	90 - 110	P	06/04/2025	15:49	LB136011
	Magnesium	5940	6000	99	90 - 110	P	06/04/2025	15:49	LB136011
	Manganese	500	520	96	90 - 110	P	06/04/2025	15:49	LB136011
	Nickel	532	530	100	90 - 110	P	06/04/2025	15:49	LB136011
	Potassium	10500	9900	106	90 - 110	P	06/04/2025	15:49	LB136011
	Selenium	1000	1000	100	90 - 110	P	06/04/2025	15:49	LB136011
	Silver	234	250	94	90 - 110	P	06/04/2025	15:49	LB136011
	Sodium	10400	10000	104	90 - 110	P	06/04/2025	15:49	LB136011
	Thallium	1000	1000	100	90 - 110	P	06/04/2025	15:49	LB136011
	Vanadium	469	500	94	90 - 110	P	06/04/2025	15:49	LB136011
	Zinc	971	1000	97	90 - 110	P	06/04/2025	15:49	LB136011

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q2198

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q2198 **SAS No.:** Q2198

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
LLICV01	Aluminum	103	100	103	80 - 120	P	06/04/2025	16:06	LB136011
	Antimony	52.4	50.0	105	80 - 120	P	06/04/2025	16:06	LB136011
	Arsenic	18.1	20.0	90	80 - 120	P	06/04/2025	16:06	LB136011
	Barium	88.2	100	88	80 - 120	P	06/04/2025	16:06	LB136011
	Beryllium	5.51	6.0	92	80 - 120	P	06/04/2025	16:06	LB136011
	Cadmium	5.84	6.0	97	80 - 120	P	06/04/2025	16:06	LB136011
	Calcium	1880	2000	94	80 - 120	P	06/04/2025	16:06	LB136011
	Chromium	10.2	10.0	102	80 - 120	P	06/04/2025	16:06	LB136011
	Cobalt	29.2	30.0	97	80 - 120	P	06/04/2025	16:06	LB136011
	Copper	21.5	20.0	108	80 - 120	P	06/04/2025	16:06	LB136011
	Iron	109	100	109	80 - 120	P	06/04/2025	16:06	LB136011
	Lead	11.3	12.0	94	80 - 120	P	06/04/2025	16:06	LB136011
	Magnesium	1890	2000	95	80 - 120	P	06/04/2025	16:06	LB136011
	Manganese	18.7	20.0	94	80 - 120	P	06/04/2025	16:06	LB136011
	Nickel	39.9	40.0	100	80 - 120	P	06/04/2025	16:06	LB136011
	Potassium	1870	2000	94	80 - 120	P	06/04/2025	16:06	LB136011
	Selenium	23.1	20.0	115	80 - 120	P	06/04/2025	16:06	LB136011
	Silver	9.80	10.0	98	80 - 120	P	06/04/2025	16:06	LB136011
	Sodium	1770	2000	88	80 - 120	P	06/04/2025	16:06	LB136011
	Thallium	39.8	40.0	100	80 - 120	P	06/04/2025	16:06	LB136011
	Vanadium	37.5	40.0	94	80 - 120	P	06/04/2025	16:06	LB136011
	Zinc	42.0	40.0	105	80 - 120	P	06/04/2025	16:06	LB136011

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q2198

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q2198 **SAS No.:** Q2198

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV01	Aluminum	9950	10000	100	90 - 110	P	06/04/2025	16:45	LB136011
	Antimony	5070	5000	102	90 - 110	P	06/04/2025	16:45	LB136011
	Arsenic	5030	5000	101	90 - 110	P	06/04/2025	16:45	LB136011
	Barium	9780	10000	98	90 - 110	P	06/04/2025	16:45	LB136011
	Beryllium	247	250	99	90 - 110	P	06/04/2025	16:45	LB136011
	Cadmium	2510	2500	100	90 - 110	P	06/04/2025	16:45	LB136011
	Calcium	24300	25000	97	90 - 110	P	06/04/2025	16:45	LB136011
	Chromium	993	1000	99	90 - 110	P	06/04/2025	16:45	LB136011
	Cobalt	2510	2500	100	90 - 110	P	06/04/2025	16:45	LB136011
	Copper	1280	1250	102	90 - 110	P	06/04/2025	16:45	LB136011
	Iron	4790	5000	96	90 - 110	P	06/04/2025	16:45	LB136011
	Lead	5010	5000	100	90 - 110	P	06/04/2025	16:45	LB136011
	Magnesium	24300	25000	97	90 - 110	P	06/04/2025	16:45	LB136011
	Manganese	2440	2500	98	90 - 110	P	06/04/2025	16:45	LB136011
	Nickel	2530	2500	101	90 - 110	P	06/04/2025	16:45	LB136011
	Potassium	24200	25000	97	90 - 110	P	06/04/2025	16:45	LB136011
	Selenium	5070	5000	101	90 - 110	P	06/04/2025	16:45	LB136011
	Silver	1230	1250	99	90 - 110	P	06/04/2025	16:45	LB136011
	Sodium	24500	25000	98	90 - 110	P	06/04/2025	16:45	LB136011
	Thallium	4790	5000	96	90 - 110	P	06/04/2025	16:45	LB136011
	Vanadium	2420	2500	97	90 - 110	P	06/04/2025	16:45	LB136011
	Zinc	2450	2500	98	90 - 110	P	06/04/2025	16:45	LB136011
CCV02	Aluminum	9620	10000	96	90 - 110	P	06/04/2025	17:35	LB136011
	Antimony	4990	5000	100	90 - 110	P	06/04/2025	17:35	LB136011
	Arsenic	4960	5000	99	90 - 110	P	06/04/2025	17:35	LB136011
	Barium	9200	10000	92	90 - 110	P	06/04/2025	17:35	LB136011
	Beryllium	244	250	98	90 - 110	P	06/04/2025	17:35	LB136011
	Cadmium	2460	2500	98	90 - 110	P	06/04/2025	17:35	LB136011
	Calcium	23500	25000	94	90 - 110	P	06/04/2025	17:35	LB136011
	Chromium	985	1000	98	90 - 110	P	06/04/2025	17:35	LB136011
	Cobalt	2460	2500	98	90 - 110	P	06/04/2025	17:35	LB136011
	Copper	1250	1250	100	90 - 110	P	06/04/2025	17:35	LB136011
	Iron	4740	5000	95	90 - 110	P	06/04/2025	17:35	LB136011
	Lead	4910	5000	98	90 - 110	P	06/04/2025	17:35	LB136011

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Fax : 908 789 8922

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q2198

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q2198 **SAS No.:** Q2198

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV02	Magnesium	23600	25000	94	90 - 110	P	06/04/2025	17:35	LB136011
	Manganese	2330	2500	93	90 - 110	P	06/04/2025	17:35	LB136011
	Nickel	2480	2500	99	90 - 110	P	06/04/2025	17:35	LB136011
	Potassium	23800	25000	95	90 - 110	P	06/04/2025	17:35	LB136011
	Selenium	5060	5000	101	90 - 110	P	06/04/2025	17:35	LB136011
	Silver	1230	1250	98	90 - 110	P	06/04/2025	17:35	LB136011
	Sodium	23700	25000	95	90 - 110	P	06/04/2025	17:35	LB136011
	Thallium	5120	5000	102	90 - 110	P	06/04/2025	17:35	LB136011
	Vanadium	2340	2500	94	90 - 110	P	06/04/2025	17:35	LB136011
	Zinc	2480	2500	99	90 - 110	P	06/04/2025	17:35	LB136011
CCV03	Aluminum	9250	10000	92	90 - 110	P	06/04/2025	18:37	LB136011
	Antimony	4830	5000	97	90 - 110	P	06/04/2025	18:37	LB136011
	Arsenic	4790	5000	96	90 - 110	P	06/04/2025	18:37	LB136011
	Barium	9130	10000	91	90 - 110	P	06/04/2025	18:37	LB136011
	Beryllium	231	250	93	90 - 110	P	06/04/2025	18:37	LB136011
	Cadmium	2390	2500	95	90 - 110	P	06/04/2025	18:37	LB136011
	Calcium	22900	25000	91	90 - 110	P	06/04/2025	18:37	LB136011
	Chromium	953	1000	95	90 - 110	P	06/04/2025	18:37	LB136011
	Cobalt	2380	2500	95	90 - 110	P	06/04/2025	18:37	LB136011
	Copper	1220	1250	97	90 - 110	P	06/04/2025	18:37	LB136011
	Iron	4730	5000	95	90 - 110	P	06/04/2025	18:37	LB136011
	Lead	4750	5000	95	90 - 110	P	06/04/2025	18:37	LB136011
	Magnesium	22800	25000	91	90 - 110	P	06/04/2025	18:37	LB136011
	Manganese	2290	2500	92	90 - 110	P	06/04/2025	18:37	LB136011
	Nickel	2400	2500	96	90 - 110	P	06/04/2025	18:37	LB136011
	Potassium	23600	25000	95	90 - 110	P	06/04/2025	18:37	LB136011
	Selenium	4850	5000	97	90 - 110	P	06/04/2025	18:37	LB136011
	Silver	1190	1250	96	90 - 110	P	06/04/2025	18:37	LB136011
	Sodium	23900	25000	96	90 - 110	P	06/04/2025	18:37	LB136011
	Thallium	4610	5000	92	90 - 110	P	06/04/2025	18:37	LB136011
	Vanadium	2280	2500	91	90 - 110	P	06/04/2025	18:37	LB136011
	Zinc	2370	2500	95	90 - 110	P	06/04/2025	18:37	LB136011
CCV04	Aluminum	9170	10000	92	90 - 110	P	06/04/2025	19:26	LB136011
	Antimony	4740	5000	95	90 - 110	P	06/04/2025	19:26	LB136011

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q2198

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q2198 **SAS No.:** Q2198

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV04	Arsenic	4700	5000	94	90 - 110	P	06/04/2025	19:26	LB136011
	Barium	9070	10000	91	90 - 110	P	06/04/2025	19:26	LB136011
	Beryllium	227	250	91	90 - 110	P	06/04/2025	19:26	LB136011
	Cadmium	2360	2500	94	90 - 110	P	06/04/2025	19:26	LB136011
	Calcium	22800	25000	91	90 - 110	P	06/04/2025	19:26	LB136011
	Chromium	944	1000	94	90 - 110	P	06/04/2025	19:26	LB136011
	Cobalt	2360	2500	94	90 - 110	P	06/04/2025	19:26	LB136011
	Copper	1190	1250	96	90 - 110	P	06/04/2025	19:26	LB136011
	Iron	4670	5000	94	90 - 110	P	06/04/2025	19:26	LB136011
	Lead	4700	5000	94	90 - 110	P	06/04/2025	19:26	LB136011
	Magnesium	22700	25000	91	90 - 110	P	06/04/2025	19:26	LB136011
	Manganese	2280	2500	91	90 - 110	P	06/04/2025	19:26	LB136011
	Nickel	2370	2500	95	90 - 110	P	06/04/2025	19:26	LB136011
	Potassium	23200	25000	93	90 - 110	P	06/04/2025	19:26	LB136011
	Selenium	4750	5000	95	90 - 110	P	06/04/2025	19:26	LB136011
	Silver	1170	1250	94	90 - 110	P	06/04/2025	19:26	LB136011
	Sodium	23600	25000	94	90 - 110	P	06/04/2025	19:26	LB136011
	Thallium	4830	5000	97	90 - 110	P	06/04/2025	19:26	LB136011
	Vanadium	2280	2500	91	90 - 110	P	06/04/2025	19:26	LB136011
	Zinc	2310	2500	92	90 - 110	P	06/04/2025	19:26	LB136011
CCV05	Aluminum	9260	10000	93	90 - 110	P	06/04/2025	20:12	LB136011
	Antimony	4750	5000	95	90 - 110	P	06/04/2025	20:12	LB136011
	Arsenic	4700	5000	94	90 - 110	P	06/04/2025	20:12	LB136011
	Barium	9550	10000	96	90 - 110	P	06/04/2025	20:12	LB136011
	Beryllium	228	250	91	90 - 110	P	06/04/2025	20:12	LB136011
	Cadmium	2350	2500	94	90 - 110	P	06/04/2025	20:12	LB136011
	Calcium	23100	25000	92	90 - 110	P	06/04/2025	20:12	LB136011
	Chromium	942	1000	94	90 - 110	P	06/04/2025	20:12	LB136011
	Cobalt	2360	2500	94	90 - 110	P	06/04/2025	20:12	LB136011
	Copper	1200	1250	96	90 - 110	P	06/04/2025	20:12	LB136011
	Iron	4820	5000	96	90 - 110	P	06/04/2025	20:12	LB136011
	Lead	4720	5000	94	90 - 110	P	06/04/2025	20:12	LB136011
	Magnesium	22700	25000	91	90 - 110	P	06/04/2025	20:12	LB136011
	Manganese	2330	2500	93	90 - 110	P	06/04/2025	20:12	LB136011

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q2198

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q2198 **SAS No.:** Q2198

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV05	Nickel	2360	2500	95	90 - 110	P	06/04/2025	20:12	LB136011
	Potassium	24000	25000	96	90 - 110	P	06/04/2025	20:12	LB136011
	Selenium	4730	5000	94	90 - 110	P	06/04/2025	20:12	LB136011
	Silver	1190	1250	95	90 - 110	P	06/04/2025	20:12	LB136011
	Sodium	24700	25000	99	90 - 110	P	06/04/2025	20:12	LB136011
	Thallium	4790	5000	96	90 - 110	P	06/04/2025	20:12	LB136011
	Vanadium	2310	2500	92	90 - 110	P	06/04/2025	20:12	LB136011
	Zinc	2340	2500	94	90 - 110	P	06/04/2025	20:12	LB136011
CCV06	Aluminum	9210	10000	92	90 - 110	P	06/04/2025	20:58	LB136011
	Antimony	4660	5000	93	90 - 110	P	06/04/2025	20:58	LB136011
	Arsenic	4620	5000	92	90 - 110	P	06/04/2025	20:58	LB136011
	Barium	9410	10000	94	90 - 110	P	06/04/2025	20:58	LB136011
	Beryllium	231	250	93	90 - 110	P	06/04/2025	20:58	LB136011
	Cadmium	2320	2500	93	90 - 110	P	06/04/2025	20:58	LB136011
	Calcium	23300	25000	93	90 - 110	P	06/04/2025	20:58	LB136011
	Chromium	930	1000	93	90 - 110	P	06/04/2025	20:58	LB136011
	Cobalt	2330	2500	93	90 - 110	P	06/04/2025	20:58	LB136011
	Copper	1170	1250	94	90 - 110	P	06/04/2025	20:58	LB136011
	Iron	4690	5000	94	90 - 110	P	06/04/2025	20:58	LB136011
	Lead	4650	5000	93	90 - 110	P	06/04/2025	20:58	LB136011
	Magnesium	23000	25000	92	90 - 110	P	06/04/2025	20:58	LB136011
	Manganese	2350	2500	94	90 - 110	P	06/04/2025	20:58	LB136011
	Nickel	2330	2500	93	90 - 110	P	06/04/2025	20:58	LB136011
	Potassium	23000	25000	92	90 - 110	P	06/04/2025	20:58	LB136011
	Selenium	4630	5000	92	90 - 110	P	06/04/2025	20:58	LB136011
	Silver	1160	1250	93	90 - 110	P	06/04/2025	20:58	LB136011
	Sodium	23500	25000	94	90 - 110	P	06/04/2025	20:58	LB136011
	Thallium	4690	5000	94	90 - 110	P	06/04/2025	20:58	LB136011
	Vanadium	2310	2500	92	90 - 110	P	06/04/2025	20:58	LB136011
	Zinc	2290	2500	92	90 - 110	P	06/04/2025	20:58	LB136011
CCV07	Aluminum	9220	10000	92	90 - 110	P	06/04/2025	21:41	LB136011
	Antimony	4730	5000	94	90 - 110	P	06/04/2025	21:41	LB136011
	Arsenic	4710	5000	94	90 - 110	P	06/04/2025	21:41	LB136011
	Barium	9600	10000	96	90 - 110	P	06/04/2025	21:41	LB136011

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q2198

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q2198 **SAS No.:** Q2198

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV07	Beryllium	230	250	92	90 - 110	P	06/04/2025	21:41	LB136011
	Cadmium	2370	2500	95	90 - 110	P	06/04/2025	21:41	LB136011
	Calcium	23400	25000	94	90 - 110	P	06/04/2025	21:41	LB136011
	Chromium	945	1000	94	90 - 110	P	06/04/2025	21:41	LB136011
	Cobalt	2360	2500	95	90 - 110	P	06/04/2025	21:41	LB136011
	Copper	1190	1250	95	90 - 110	P	06/04/2025	21:41	LB136011
	Iron	4930	5000	98	90 - 110	P	06/04/2025	21:41	LB136011
	Lead	4730	5000	95	90 - 110	P	06/04/2025	21:41	LB136011
	Magnesium	23000	25000	92	90 - 110	P	06/04/2025	21:41	LB136011
	Manganese	2370	2500	95	90 - 110	P	06/04/2025	21:41	LB136011
	Nickel	2370	2500	95	90 - 110	P	06/04/2025	21:41	LB136011
	Potassium	24100	25000	96	90 - 110	P	06/04/2025	21:41	LB136011
	Selenium	4690	5000	94	90 - 110	P	06/04/2025	21:41	LB136011
	Silver	1190	1250	95	90 - 110	P	06/04/2025	21:41	LB136011
	Sodium	24700	25000	99	90 - 110	P	06/04/2025	21:41	LB136011
	Thallium	4700	5000	94	90 - 110	P	06/04/2025	21:41	LB136011
	Vanadium	2340	2500	93	90 - 110	P	06/04/2025	21:41	LB136011
	Zinc	2340	2500	94	90 - 110	P	06/04/2025	21:41	LB136011
CCV08	Aluminum	9270	10000	93	90 - 110	P	06/04/2025	22:06	LB136011
	Antimony	4660	5000	93	90 - 110	P	06/04/2025	22:06	LB136011
	Arsenic	4620	5000	92	90 - 110	P	06/04/2025	22:06	LB136011
	Barium	9210	10000	92	90 - 110	P	06/04/2025	22:06	LB136011
	Beryllium	245	250	98	90 - 110	P	06/04/2025	22:06	LB136011
	Cadmium	2330	2500	93	90 - 110	P	06/04/2025	22:06	LB136011
	Calcium	23100	25000	92	90 - 110	P	06/04/2025	22:06	LB136011
	Chromium	937	1000	94	90 - 110	P	06/04/2025	22:06	LB136011
	Cobalt	2330	2500	93	90 - 110	P	06/04/2025	22:06	LB136011
	Copper	1170	1250	94	90 - 110	P	06/04/2025	22:06	LB136011
	Iron	4430	5000	88	90 - 110	P	06/04/2025	22:06	LB136011
	Lead	4670	5000	93	90 - 110	P	06/04/2025	22:06	LB136011
	Magnesium	23200	25000	93	90 - 110	P	06/04/2025	22:06	LB136011
	Manganese	2330	2500	93	90 - 110	P	06/04/2025	22:06	LB136011
	Nickel	2330	2500	93	90 - 110	P	06/04/2025	22:06	LB136011
	Potassium	21800	25000	87	90 - 110	P	06/04/2025	22:06	LB136011

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q2198

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q2198 **SAS No.:** Q2198

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV08	Selenium	4580	5000	92	90 - 110	P	06/04/2025	22:06	LB136011
	Silver	1170	1250	94	90 - 110	P	06/04/2025	22:06	LB136011
	Sodium	22000	25000	88	90 - 110	P	06/04/2025	22:06	LB136011
	Thallium	4600	5000	92	90 - 110	P	06/04/2025	22:06	LB136011
	Vanadium	2300	2500	92	90 - 110	P	06/04/2025	22:06	LB136011
	Zinc	2290	2500	92	90 - 110	P	06/04/2025	22:06	LB136011

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q2198

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q2198 **SAS No.:** Q2198

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV01	Aluminum	2480	2500	99	90 - 110	P	06/05/2025	15:55	LB136035
	Antimony	1020	1000	102	90 - 110	P	06/05/2025	15:55	LB136035
	Arsenic	1010	1000	101	90 - 110	P	06/05/2025	15:55	LB136035
	Barium	475	520	91	90 - 110	P	06/05/2025	15:55	LB136035
	Beryllium	480	510	94	90 - 110	P	06/05/2025	15:55	LB136035
	Cadmium	504	510	99	90 - 110	P	06/05/2025	15:55	LB136035
	Calcium	9690	10000	97	90 - 110	P	06/05/2025	15:55	LB136035
	Chromium	529	520	102	90 - 110	P	06/05/2025	15:55	LB136035
	Cobalt	525	520	101	90 - 110	P	06/05/2025	15:55	LB136035
	Copper	527	510	103	90 - 110	P	06/05/2025	15:55	LB136035
	Iron	10100	10000	101	90 - 110	P	06/05/2025	15:55	LB136035
	Lead	985	1000	98	90 - 110	P	06/05/2025	15:55	LB136035
	Magnesium	6060	6000	101	90 - 110	P	06/05/2025	15:55	LB136035
	Manganese	500	520	96	90 - 110	P	06/05/2025	15:55	LB136035
	Nickel	535	530	101	90 - 110	P	06/05/2025	15:55	LB136035
	Potassium	9470	9900	96	90 - 110	P	06/05/2025	15:55	LB136035
	Selenium	1000	1000	100	90 - 110	P	06/05/2025	15:55	LB136035
	Silver	261	250	104	90 - 110	P	06/05/2025	15:55	LB136035
	Sodium	10200	10000	102	90 - 110	P	06/05/2025	15:55	LB136035
	Thallium	1060	1000	106	90 - 110	P	06/05/2025	15:55	LB136035
	Vanadium	477	500	95	90 - 110	P	06/05/2025	15:55	LB136035
	Zinc	995	1000	100	90 - 110	P	06/05/2025	15:55	LB136035

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q2198

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q2198 **SAS No.:** Q2198

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
LLICV01	Aluminum	99.6	100	100	80 - 120	P	06/05/2025	16:09	LB136035
	Antimony	50.6	50.0	101	80 - 120	P	06/05/2025	16:09	LB136035
	Arsenic	23.4	20.0	117	80 - 120	P	06/05/2025	16:09	LB136035
	Barium	88.5	100	88	80 - 120	P	06/05/2025	16:09	LB136035
	Beryllium	5.63	6.0	94	80 - 120	P	06/05/2025	16:09	LB136035
	Cadmium	6.12	6.0	102	80 - 120	P	06/05/2025	16:09	LB136035
	Calcium	1870	2000	93	80 - 120	P	06/05/2025	16:09	LB136035
	Chromium	10.7	10.0	107	80 - 120	P	06/05/2025	16:09	LB136035
	Cobalt	29.7	30.0	99	80 - 120	P	06/05/2025	16:09	LB136035
	Copper	21.5	20.0	107	80 - 120	P	06/05/2025	16:09	LB136035
	Iron	114	100	114	80 - 120	P	06/05/2025	16:09	LB136035
	Lead	14.0	12.0	117	80 - 120	P	06/05/2025	16:09	LB136035
	Magnesium	1930	2000	96	80 - 120	P	06/05/2025	16:09	LB136035
	Manganese	19.0	20.0	95	80 - 120	P	06/05/2025	16:09	LB136035
	Nickel	40.1	40.0	100	80 - 120	P	06/05/2025	16:09	LB136035
	Potassium	2370	2000	118	80 - 120	P	06/05/2025	16:09	LB136035
	Selenium	22.3	20.0	112	80 - 120	P	06/05/2025	16:09	LB136035
	Silver	10.4	10.0	104	80 - 120	P	06/05/2025	16:09	LB136035
	Sodium	1930	2000	96	80 - 120	P	06/05/2025	16:09	LB136035
	Thallium	41.2	40.0	103	80 - 120	P	06/05/2025	16:09	LB136035
	Vanadium	35.7	40.0	89	80 - 120	P	06/05/2025	16:09	LB136035
	Zinc	45.3	40.0	113	80 - 120	P	06/05/2025	16:09	LB136035

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q2198

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q2198 **SAS No.:** Q2198

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV01	Aluminum	9670	10000	97	90 - 110	P	06/05/2025	16:50	LB136035
	Antimony	5030	5000	101	90 - 110	P	06/05/2025	16:50	LB136035
	Arsenic	4980	5000	100	90 - 110	P	06/05/2025	16:50	LB136035
	Barium	9250	10000	92	90 - 110	P	06/05/2025	16:50	LB136035
	Beryllium	238	250	95	90 - 110	P	06/05/2025	16:50	LB136035
	Cadmium	2470	2500	99	90 - 110	P	06/05/2025	16:50	LB136035
	Calcium	23900	25000	96	90 - 110	P	06/05/2025	16:50	LB136035
	Chromium	1010	1000	101	90 - 110	P	06/05/2025	16:50	LB136035
	Cobalt	2470	2500	99	90 - 110	P	06/05/2025	16:50	LB136035
	Copper	1260	1250	101	90 - 110	P	06/05/2025	16:50	LB136035
	Iron	4890	5000	98	90 - 110	P	06/05/2025	16:50	LB136035
	Lead	4930	5000	99	90 - 110	P	06/05/2025	16:50	LB136035
	Magnesium	24100	25000	96	90 - 110	P	06/05/2025	16:50	LB136035
	Manganese	2340	2500	94	90 - 110	P	06/05/2025	16:50	LB136035
	Nickel	2470	2500	99	90 - 110	P	06/05/2025	16:50	LB136035
	Potassium	24300	25000	97	90 - 110	P	06/05/2025	16:50	LB136035
	Selenium	5020	5000	100	90 - 110	P	06/05/2025	16:50	LB136035
	Silver	1230	1250	99	90 - 110	P	06/05/2025	16:50	LB136035
	Sodium	24900	25000	100	90 - 110	P	06/05/2025	16:50	LB136035
	Thallium	5260	5000	105	90 - 110	P	06/05/2025	16:50	LB136035
	Vanadium	2390	2500	96	90 - 110	P	06/05/2025	16:50	LB136035
	Zinc	2540	2500	102	90 - 110	P	06/05/2025	16:50	LB136035
CCV02	Aluminum	9470	10000	95	90 - 110	P	06/05/2025	17:46	LB136035
	Antimony	5050	5000	101	90 - 110	P	06/05/2025	17:46	LB136035
	Arsenic	4960	5000	99	90 - 110	P	06/05/2025	17:46	LB136035
	Barium	9460	10000	95	90 - 110	P	06/05/2025	17:46	LB136035
	Beryllium	228	250	91	90 - 110	P	06/05/2025	17:46	LB136035
	Cadmium	2450	2500	98	90 - 110	P	06/05/2025	17:46	LB136035
	Calcium	23600	25000	94	90 - 110	P	06/05/2025	17:46	LB136035
	Chromium	1000	1000	100	90 - 110	P	06/05/2025	17:46	LB136035
	Cobalt	2450	2500	98	90 - 110	P	06/05/2025	17:46	LB136035
	Copper	1260	1250	101	90 - 110	P	06/05/2025	17:46	LB136035
	Iron	5140	5000	103	90 - 110	P	06/05/2025	17:46	LB136035
	Lead	4870	5000	97	90 - 110	P	06/05/2025	17:46	LB136035

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q2198

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q2198 **SAS No.:** Q2198

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV02	Magnesium	23400	25000	94	90 - 110	P	06/05/2025	17:46	LB136035
	Manganese	2340	2500	94	90 - 110	P	06/05/2025	17:46	LB136035
	Nickel	2440	2500	98	90 - 110	P	06/05/2025	17:46	LB136035
	Potassium	25400	25000	102	90 - 110	P	06/05/2025	17:46	LB136035
	Selenium	5030	5000	101	90 - 110	P	06/05/2025	17:46	LB136035
	Silver	1240	1250	100	90 - 110	P	06/05/2025	17:46	LB136035
	Sodium	25900	25000	104	90 - 110	P	06/05/2025	17:46	LB136035
	Thallium	5010	5000	100	90 - 110	P	06/05/2025	17:46	LB136035
	Vanadium	2380	2500	95	90 - 110	P	06/05/2025	17:46	LB136035
	Zinc	2490	2500	100	90 - 110	P	06/05/2025	17:46	LB136035
CCV03	Aluminum	9470	10000	95	90 - 110	P	06/05/2025	19:43	LB136035
	Antimony	4670	5000	94	90 - 110	P	06/05/2025	19:43	LB136035
	Arsenic	4930	5000	99	90 - 110	P	06/05/2025	19:43	LB136035
	Barium	10200	10000	102	90 - 110	P	06/05/2025	19:43	LB136035
	Beryllium	237	250	95	90 - 110	P	06/05/2025	19:43	LB136035
	Cadmium	2430	2500	97	90 - 110	P	06/05/2025	19:43	LB136035
	Calcium	24700	25000	99	90 - 110	P	06/05/2025	19:43	LB136035
	Chromium	961	1000	96	90 - 110	P	06/05/2025	19:43	LB136035
	Cobalt	2440	2500	98	90 - 110	P	06/05/2025	19:43	LB136035
	Copper	1230	1250	98	90 - 110	P	06/05/2025	19:43	LB136035
	Iron	5110	5000	102	90 - 110	P	06/05/2025	19:43	LB136035
	Lead	4870	5000	97	90 - 110	P	06/05/2025	19:43	LB136035
	Magnesium	24200	25000	97	90 - 110	P	06/05/2025	19:43	LB136035
	Manganese	2540	2500	102	90 - 110	P	06/05/2025	19:43	LB136035
	Nickel	2440	2500	98	90 - 110	P	06/05/2025	19:43	LB136035
	Potassium	24700	25000	99	90 - 110	P	06/05/2025	19:43	LB136035
	Selenium	4950	5000	99	90 - 110	P	06/05/2025	19:43	LB136035
	Silver	1210	1250	97	90 - 110	P	06/05/2025	19:43	LB136035
	Sodium	23100	25000	92	90 - 110	P	06/05/2025	19:43	LB136035
	Thallium	4940	5000	99	90 - 110	P	06/05/2025	19:43	LB136035
	Vanadium	2450	2500	98	90 - 110	P	06/05/2025	19:43	LB136035
	Zinc	2610	2500	104	90 - 110	P	06/05/2025	19:43	LB136035
CCV04	Aluminum	9620	10000	96	90 - 110	P	06/05/2025	20:28	LB136035
	Antimony	4840	5000	97	90 - 110	P	06/05/2025	20:28	LB136035

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q2198

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q2198 **SAS No.:** Q2198

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV04	Arsenic	5150	5000	103	90 - 110	P	06/05/2025	20:28	LB136035
	Barium	10000	10000	100	90 - 110	P	06/05/2025	20:28	LB136035
	Beryllium	232	250	93	90 - 110	P	06/05/2025	20:28	LB136035
	Cadmium	2500	2500	100	90 - 110	P	06/05/2025	20:28	LB136035
	Calcium	24600	25000	98	90 - 110	P	06/05/2025	20:28	LB136035
	Chromium	995	1000	100	90 - 110	P	06/05/2025	20:28	LB136035
	Cobalt	2490	2500	100	90 - 110	P	06/05/2025	20:28	LB136035
	Copper	1270	1250	102	90 - 110	P	06/05/2025	20:28	LB136035
	Iron	5230	5000	105	90 - 110	P	06/05/2025	20:28	LB136035
	Lead	4990	5000	100	90 - 110	P	06/05/2025	20:28	LB136035
	Magnesium	24200	25000	97	90 - 110	P	06/05/2025	20:28	LB136035
	Manganese	2470	2500	99	90 - 110	P	06/05/2025	20:28	LB136035
	Nickel	2500	2500	100	90 - 110	P	06/05/2025	20:28	LB136035
	Potassium	25400	25000	101	90 - 110	P	06/05/2025	20:28	LB136035
	Selenium	5160	5000	103	90 - 110	P	06/05/2025	20:28	LB136035
	Silver	1230	1250	99	90 - 110	P	06/05/2025	20:28	LB136035
	Sodium	22600	25000	90	90 - 110	P	06/05/2025	20:28	LB136035
	Thallium	5050	5000	101	90 - 110	P	06/05/2025	20:28	LB136035
	Vanadium	2480	2500	99	90 - 110	P	06/05/2025	20:28	LB136035
	Zinc	2630	2500	105	90 - 110	P	06/05/2025	20:28	LB136035
CCV05	Aluminum	9550	10000	96	90 - 110	P	06/05/2025	23:51	LB136035
	Antimony	4730	5000	94	90 - 110	P	06/05/2025	23:51	LB136035
	Arsenic	5070	5000	101	90 - 110	P	06/05/2025	23:51	LB136035
	Barium	9950	10000	100	90 - 110	P	06/05/2025	23:51	LB136035
	Beryllium	239	250	96	90 - 110	P	06/05/2025	23:51	LB136035
	Cadmium	2500	2500	100	90 - 110	P	06/05/2025	23:51	LB136035
	Calcium	24700	25000	99	90 - 110	P	06/05/2025	23:51	LB136035
	Chromium	1010	1000	101	90 - 110	P	06/05/2025	23:51	LB136035
	Cobalt	2480	2500	99	90 - 110	P	06/05/2025	23:51	LB136035
	Copper	1250	1250	100	90 - 110	P	06/05/2025	23:51	LB136035
	Iron	5320	5000	106	90 - 110	P	06/05/2025	23:51	LB136035
	Lead	4970	5000	100	90 - 110	P	06/05/2025	23:51	LB136035
	Magnesium	24300	25000	97	90 - 110	P	06/05/2025	23:51	LB136035
	Manganese	2480	2500	99	90 - 110	P	06/05/2025	23:51	LB136035

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q2198

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q2198 **SAS No.:** Q2198

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV05	Nickel	2490	2500	100	90 - 110	P	06/05/2025	23:51	LB136035
	Potassium	25600	25000	102	90 - 110	P	06/05/2025	23:51	LB136035
	Selenium	5060	5000	101	90 - 110	P	06/05/2025	23:51	LB136035
	Silver	1260	1250	100	90 - 110	P	06/05/2025	23:51	LB136035
	Sodium	23000	25000	92	90 - 110	P	06/05/2025	23:51	LB136035
	Thallium	4960	5000	99	90 - 110	P	06/05/2025	23:51	LB136035
	Vanadium	2470	2500	99	90 - 110	P	06/05/2025	23:51	LB136035
	Zinc	2670	2500	107	90 - 110	P	06/05/2025	23:51	LB136035

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q2198

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q2198 **SAS No.:** Q2198

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV01	Aluminum	2550	2500	102	90 - 110	P	06/06/2025	13:16	LB136052
	Antimony	1020	1000	102	90 - 110	P	06/06/2025	13:16	LB136052
	Arsenic	1010	1000	101	90 - 110	P	06/06/2025	13:16	LB136052
	Barium	507	520	98	90 - 110	P	06/06/2025	13:16	LB136052
	Beryllium	485	510	95	90 - 110	P	06/06/2025	13:16	LB136052
	Cadmium	502	510	98	90 - 110	P	06/06/2025	13:16	LB136052
	Calcium	9890	10000	99	90 - 110	P	06/06/2025	13:16	LB136052
	Chromium	522	520	100	90 - 110	P	06/06/2025	13:16	LB136052
	Cobalt	523	520	101	90 - 110	P	06/06/2025	13:16	LB136052
	Copper	527	510	103	90 - 110	P	06/06/2025	13:16	LB136052
	Iron	10300	10000	103	90 - 110	P	06/06/2025	13:16	LB136052
	Lead	980	1000	98	90 - 110	P	06/06/2025	13:16	LB136052
	Magnesium	6090	6000	102	90 - 110	P	06/06/2025	13:16	LB136052
	Manganese	520	520	100	90 - 110	P	06/06/2025	13:16	LB136052
	Nickel	533	530	100	90 - 110	P	06/06/2025	13:16	LB136052
	Potassium	9630	9900	97	90 - 110	P	06/06/2025	13:16	LB136052
	Selenium	998	1000	100	90 - 110	P	06/06/2025	13:16	LB136052
	Silver	243	250	97	90 - 110	P	06/06/2025	13:16	LB136052
	Sodium	10100	10000	101	90 - 110	P	06/06/2025	13:16	LB136052
	Thallium	985	1000	98	90 - 110	P	06/06/2025	13:16	LB136052
	Vanadium	489	500	98	90 - 110	P	06/06/2025	13:16	LB136052
	Zinc	991	1000	99	90 - 110	P	06/06/2025	13:16	LB136052

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q2198

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q2198 **SAS No.:** Q2198

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
LLICV01	Aluminum	105	100	105	80 - 120	P	06/06/2025	13:29	LB136052
	Antimony	47.2	50.0	94	80 - 120	P	06/06/2025	13:29	LB136052
	Arsenic	21.6	20.0	108	80 - 120	P	06/06/2025	13:29	LB136052
	Barium	92.0	100	92	80 - 120	P	06/06/2025	13:29	LB136052
	Beryllium	5.86	6.0	98	80 - 120	P	06/06/2025	13:29	LB136052
	Cadmium	6.02	6.0	100	80 - 120	P	06/06/2025	13:29	LB136052
	Calcium	1940	2000	97	80 - 120	P	06/06/2025	13:29	LB136052
	Chromium	9.45	10.0	94	80 - 120	P	06/06/2025	13:29	LB136052
	Cobalt	29.2	30.0	97	80 - 120	P	06/06/2025	13:29	LB136052
	Copper	21.0	20.0	105	80 - 120	P	06/06/2025	13:29	LB136052
	Iron	106	100	106	80 - 120	P	06/06/2025	13:29	LB136052
	Lead	13.9	12.0	116	80 - 120	P	06/06/2025	13:29	LB136052
	Magnesium	1960	2000	98	80 - 120	P	06/06/2025	13:29	LB136052
	Manganese	19.2	20.0	96	80 - 120	P	06/06/2025	13:29	LB136052
	Nickel	39.7	40.0	99	80 - 120	P	06/06/2025	13:29	LB136052
	Potassium	2290	2000	115	80 - 120	P	06/06/2025	13:29	LB136052
	Selenium	22.5	20.0	112	80 - 120	P	06/06/2025	13:29	LB136052
	Silver	9.79	10.0	98	80 - 120	P	06/06/2025	13:29	LB136052
	Sodium	1630	2000	82	80 - 120	P	06/06/2025	13:29	LB136052
	Thallium	41.0	40.0	102	80 - 120	P	06/06/2025	13:29	LB136052
	Vanadium	38.8	40.0	97	80 - 120	P	06/06/2025	13:29	LB136052
	Zinc	43.4	40.0	108	80 - 120	P	06/06/2025	13:29	LB136052

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q2198

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q2198 **SAS No.:** Q2198

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV01	Aluminum	9970	10000	100	90 - 110	P	06/06/2025	14:05	LB136052
	Antimony	5060	5000	101	90 - 110	P	06/06/2025	14:05	LB136052
	Arsenic	5060	5000	101	90 - 110	P	06/06/2025	14:05	LB136052
	Barium	9720	10000	97	90 - 110	P	06/06/2025	14:05	LB136052
	Beryllium	244	250	98	90 - 110	P	06/06/2025	14:05	LB136052
	Cadmium	2460	2500	98	90 - 110	P	06/06/2025	14:05	LB136052
	Calcium	24000	25000	96	90 - 110	P	06/06/2025	14:05	LB136052
	Chromium	995	1000	100	90 - 110	P	06/06/2025	14:05	LB136052
	Cobalt	2460	2500	98	90 - 110	P	06/06/2025	14:05	LB136052
	Copper	1250	1250	100	90 - 110	P	06/06/2025	14:05	LB136052
	Iron	4810	5000	96	90 - 110	P	06/06/2025	14:05	LB136052
	Lead	4910	5000	98	90 - 110	P	06/06/2025	14:05	LB136052
	Magnesium	23900	25000	95	90 - 110	P	06/06/2025	14:05	LB136052
	Manganese	2360	2500	95	90 - 110	P	06/06/2025	14:05	LB136052
	Nickel	2460	2500	98	90 - 110	P	06/06/2025	14:05	LB136052
	Potassium	24400	25000	98	90 - 110	P	06/06/2025	14:05	LB136052
	Selenium	5120	5000	102	90 - 110	P	06/06/2025	14:05	LB136052
	Silver	1240	1250	99	90 - 110	P	06/06/2025	14:05	LB136052
	Sodium	24400	25000	98	90 - 110	P	06/06/2025	14:05	LB136052
	Thallium	5010	5000	100	90 - 110	P	06/06/2025	14:05	LB136052
	Vanadium	2420	2500	97	90 - 110	P	06/06/2025	14:05	LB136052
	Zinc	2480	2500	99	90 - 110	P	06/06/2025	14:05	LB136052
CCV02	Aluminum	9950	10000	100	90 - 110	P	06/06/2025	14:56	LB136052
	Antimony	5150	5000	103	90 - 110	P	06/06/2025	14:56	LB136052
	Arsenic	5110	5000	102	90 - 110	P	06/06/2025	14:56	LB136052
	Barium	9740	10000	97	90 - 110	P	06/06/2025	14:56	LB136052
	Beryllium	235	250	94	90 - 110	P	06/06/2025	14:56	LB136052
	Cadmium	2470	2500	99	90 - 110	P	06/06/2025	14:56	LB136052
	Calcium	23900	25000	96	90 - 110	P	06/06/2025	14:56	LB136052
	Chromium	993	1000	99	90 - 110	P	06/06/2025	14:56	LB136052
	Cobalt	2480	2500	99	90 - 110	P	06/06/2025	14:56	LB136052
	Copper	1280	1250	102	90 - 110	P	06/06/2025	14:56	LB136052
	Iron	4920	5000	98	90 - 110	P	06/06/2025	14:56	LB136052
	Lead	4960	5000	99	90 - 110	P	06/06/2025	14:56	LB136052

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Fax : 908 789 8922

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q2198

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q2198 **SAS No.:** Q2198

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV02	Magnesium	23700	25000	95	90 - 110	P	06/06/2025	14:56	LB136052
	Manganese	2370	2500	95	90 - 110	P	06/06/2025	14:56	LB136052
	Nickel	2480	2500	99	90 - 110	P	06/06/2025	14:56	LB136052
	Potassium	25000	25000	100	90 - 110	P	06/06/2025	14:56	LB136052
	Selenium	5170	5000	103	90 - 110	P	06/06/2025	14:56	LB136052
	Silver	1250	1250	100	90 - 110	P	06/06/2025	14:56	LB136052
	Sodium	25100	25000	100	90 - 110	P	06/06/2025	14:56	LB136052
	Thallium	5070	5000	101	90 - 110	P	06/06/2025	14:56	LB136052
	Vanadium	2430	2500	97	90 - 110	P	06/06/2025	14:56	LB136052
	Zinc	2490	2500	100	90 - 110	P	06/06/2025	14:56	LB136052
CCV03	Aluminum	10200	10000	102	90 - 110	P	06/06/2025	15:50	LB136052
	Antimony	5160	5000	103	90 - 110	P	06/06/2025	15:50	LB136052
	Arsenic	5150	5000	103	90 - 110	P	06/06/2025	15:50	LB136052
	Barium	9690	10000	97	90 - 110	P	06/06/2025	15:50	LB136052
	Beryllium	253	250	101	90 - 110	P	06/06/2025	15:50	LB136052
	Cadmium	2510	2500	100	90 - 110	P	06/06/2025	15:50	LB136052
	Calcium	24500	25000	98	90 - 110	P	06/06/2025	15:50	LB136052
	Chromium	998	1000	100	90 - 110	P	06/06/2025	15:50	LB136052
	Cobalt	2510	2500	100	90 - 110	P	06/06/2025	15:50	LB136052
	Copper	1280	1250	103	90 - 110	P	06/06/2025	15:50	LB136052
	Iron	4640	5000	93	90 - 110	P	06/06/2025	15:50	LB136052
	Lead	5000	5000	100	90 - 110	P	06/06/2025	15:50	LB136052
	Magnesium	24600	25000	98	90 - 110	P	06/06/2025	15:50	LB136052
	Manganese	2420	2500	97	90 - 110	P	06/06/2025	15:50	LB136052
	Nickel	2510	2500	100	90 - 110	P	06/06/2025	15:50	LB136052
	Potassium	23600	25000	94	90 - 110	P	06/06/2025	15:50	LB136052
	Selenium	5210	5000	104	90 - 110	P	06/06/2025	15:50	LB136052
	Silver	1240	1250	99	90 - 110	P	06/06/2025	15:50	LB136052
	Sodium	23900	25000	95	90 - 110	P	06/06/2025	15:50	LB136052
	Thallium	5080	5000	102	90 - 110	P	06/06/2025	15:50	LB136052
	Vanadium	2460	2500	98	90 - 110	P	06/06/2025	15:50	LB136052
	Zinc	2470	2500	99	90 - 110	P	06/06/2025	15:50	LB136052
CCV04	Aluminum	9810	10000	98	90 - 110	P	06/06/2025	16:46	LB136052
	Antimony	4960	5000	99	90 - 110	P	06/06/2025	16:46	LB136052

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Fax : 908 789 8922

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q2198

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q2198 **SAS No.:** Q2198

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV04	Arsenic	4920	5000	98	90 - 110	P	06/06/2025	16:46	LB136052
	Barium	9750	10000	98	90 - 110	P	06/06/2025	16:46	LB136052
	Beryllium	237	250	95	90 - 110	P	06/06/2025	16:46	LB136052
	Cadmium	2450	2500	98	90 - 110	P	06/06/2025	16:46	LB136052
	Calcium	24200	25000	97	90 - 110	P	06/06/2025	16:46	LB136052
	Chromium	993	1000	99	90 - 110	P	06/06/2025	16:46	LB136052
	Cobalt	2450	2500	98	90 - 110	P	06/06/2025	16:46	LB136052
	Copper	1240	1250	99	90 - 110	P	06/06/2025	16:46	LB136052
	Iron	4980	5000	100	90 - 110	P	06/06/2025	16:46	LB136052
	Lead	4890	5000	98	90 - 110	P	06/06/2025	16:46	LB136052
	Magnesium	23900	25000	96	90 - 110	P	06/06/2025	16:46	LB136052
	Manganese	2400	2500	96	90 - 110	P	06/06/2025	16:46	LB136052
	Nickel	2450	2500	98	90 - 110	P	06/06/2025	16:46	LB136052
	Potassium	24600	25000	98	90 - 110	P	06/06/2025	16:46	LB136052
	Selenium	4920	5000	98	90 - 110	P	06/06/2025	16:46	LB136052
	Silver	1230	1250	98	90 - 110	P	06/06/2025	16:46	LB136052
	Sodium	25000	25000	100	90 - 110	P	06/06/2025	16:46	LB136052
	Thallium	4710	5000	94	90 - 110	P	06/06/2025	16:46	LB136052
	Vanadium	2430	2500	97	90 - 110	P	06/06/2025	16:46	LB136052
	Zinc	2460	2500	98	90 - 110	P	06/06/2025	16:46	LB136052
CCV05	Aluminum	9840	10000	98	90 - 110	P	06/06/2025	17:40	LB136052
	Antimony	4960	5000	99	90 - 110	P	06/06/2025	17:40	LB136052
	Arsenic	4930	5000	99	90 - 110	P	06/06/2025	17:40	LB136052
	Barium	9480	10000	95	90 - 110	P	06/06/2025	17:40	LB136052
	Beryllium	243	250	97	90 - 110	P	06/06/2025	17:40	LB136052
	Cadmium	2390	2500	96	90 - 110	P	06/06/2025	17:40	LB136052
	Calcium	23700	25000	95	90 - 110	P	06/06/2025	17:40	LB136052
	Chromium	977	1000	98	90 - 110	P	06/06/2025	17:40	LB136052
	Cobalt	2410	2500	96	90 - 110	P	06/06/2025	17:40	LB136052
	Copper	1250	1250	100	90 - 110	P	06/06/2025	17:40	LB136052
	Iron	4770	5000	95	90 - 110	P	06/06/2025	17:40	LB136052
	Lead	4810	5000	96	90 - 110	P	06/06/2025	17:40	LB136052
	Magnesium	23600	25000	94	90 - 110	P	06/06/2025	17:40	LB136052
	Manganese	2370	2500	95	90 - 110	P	06/06/2025	17:40	LB136052

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Fax : 908 789 8922

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q2198

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q2198 **SAS No.:** Q2198

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV05	Nickel	2410	2500	96	90 - 110	P	06/06/2025	17:40	LB136052
	Potassium	23900	25000	96	90 - 110	P	06/06/2025	17:40	LB136052
	Selenium	5010	5000	100	90 - 110	P	06/06/2025	17:40	LB136052
	Silver	1230	1250	99	90 - 110	P	06/06/2025	17:40	LB136052
	Sodium	24000	25000	96	90 - 110	P	06/06/2025	17:40	LB136052
	Thallium	4840	5000	97	90 - 110	P	06/06/2025	17:40	LB136052
	Vanadium	2400	2500	96	90 - 110	P	06/06/2025	17:40	LB136052
	Zinc	2450	2500	98	90 - 110	P	06/06/2025	17:40	LB136052
CCV06	Aluminum	9230	10000	92	90 - 110	P	06/07/2025	03:03	LB136052
	Antimony	4480	5000	90	90 - 110	P	06/07/2025	03:03	LB136052
	Arsenic	4390	5000	88	90 - 110	P	06/07/2025	03:03	LB136052
	Barium	9840	10000	98	90 - 110	P	06/07/2025	03:03	LB136052
	Beryllium	257	250	103	90 - 110	P	06/07/2025	03:03	LB136052
	Cadmium	2300	2500	92	90 - 110	P	06/07/2025	03:03	LB136052
	Calcium	23900	25000	96	90 - 110	P	06/07/2025	03:03	LB136052
	Chromium	907	1000	91	90 - 110	P	06/07/2025	03:03	LB136052
	Cobalt	2290	2500	92	90 - 110	P	06/07/2025	03:03	LB136052
	Copper	1170	1250	94	90 - 110	P	06/07/2025	03:03	LB136052
	Iron	4160	5000	83	90 - 110	P	06/07/2025	03:03	LB136052
	Lead	4580	5000	92	90 - 110	P	06/07/2025	03:03	LB136052
	Magnesium	24100	25000	96	90 - 110	P	06/07/2025	03:03	LB136052
	Manganese	2470	2500	99	90 - 110	P	06/07/2025	03:03	LB136052
	Nickel	2300	2500	92	90 - 110	P	06/07/2025	03:03	LB136052
	Potassium	20100	25000	81	90 - 110	P	06/07/2025	03:03	LB136052
	Selenium	4340	5000	87	90 - 110	P	06/07/2025	03:03	LB136052
	Silver	1120	1250	90	90 - 110	P	06/07/2025	03:03	LB136052
	Sodium	20700	25000	83	90 - 110	P	06/07/2025	03:03	LB136052
	Thallium	4470	5000	89	90 - 110	P	06/07/2025	03:03	LB136052
	Vanadium	2390	2500	96	90 - 110	P	06/07/2025	03:03	LB136052
	Zinc	2190	2500	88	90 - 110	P	06/07/2025	03:03	LB136052
CCV07	Aluminum	9310	10000	93	90 - 110	P	06/07/2025	03:40	LB136052
	Antimony	4500	5000	90	90 - 110	P	06/07/2025	03:40	LB136052
	Arsenic	4400	5000	88	90 - 110	P	06/07/2025	03:40	LB136052
	Barium	10300	10000	103	90 - 110	P	06/07/2025	03:40	LB136052

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Fax : 908 789 8922

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q2198

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q2198 **SAS No.:** Q2198

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV07	Beryllium	249	250	100	90 - 110	P	06/07/2025	03:40	LB136052
	Cadmium	2330	2500	93	90 - 110	P	06/07/2025	03:40	LB136052
	Calcium	24600	25000	98	90 - 110	P	06/07/2025	03:40	LB136052
	Chromium	951	1000	95	90 - 110	P	06/07/2025	03:40	LB136052
	Cobalt	2320	2500	93	90 - 110	P	06/07/2025	03:40	LB136052
	Copper	1180	1250	94	90 - 110	P	06/07/2025	03:40	LB136052
	Iron	4870	5000	98	90 - 110	P	06/07/2025	03:40	LB136052
	Lead	4630	5000	92	90 - 110	P	06/07/2025	03:40	LB136052
	Magnesium	24500	25000	98	90 - 110	P	06/07/2025	03:40	LB136052
	Manganese	2530	2500	101	90 - 110	P	06/07/2025	03:40	LB136052
	Nickel	2330	2500	93	90 - 110	P	06/07/2025	03:40	LB136052
	Potassium	22700	25000	91	90 - 110	P	06/07/2025	03:40	LB136052
	Selenium	4350	5000	87	90 - 110	P	06/07/2025	03:40	LB136052
	Silver	1180	1250	95	90 - 110	P	06/07/2025	03:40	LB136052
	Sodium	23300	25000	93	90 - 110	P	06/07/2025	03:40	LB136052
	Thallium	4510	5000	90	90 - 110	P	06/07/2025	03:40	LB136052
	Vanadium	2470	2500	99	90 - 110	P	06/07/2025	03:40	LB136052
	Zinc	2300	2500	92	90 - 110	P	06/07/2025	03:40	LB136052

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Fax : 908 789 8922

Metals

- 2b -
CRDL STANDARD FOR AA & ICP

Client: Portal Partners Tri-Venture **SDG No.:** Q2198

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q2198 **SAS No.:** Q2198

Initial Calibration Source:

Continuing Calibration Source:

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CRA	Mercury	0.20	0.2	98	70 - 130	CV	06/04/2025	15:21	LB136001
CRI01	Aluminum	98.3	100	98	65 - 135	P	06/04/2025	16:15	LB136011
	Antimony	50.4	50.0	101	65 - 135	P	06/04/2025	16:15	LB136011
	Arsenic	18.7	20.0	93	65 - 135	P	06/04/2025	16:15	LB136011
	Barium	86.6	100	87	65 - 135	P	06/04/2025	16:15	LB136011
	Beryllium	5.83	6.0	97	65 - 135	P	06/04/2025	16:15	LB136011
	Cadmium	5.99	6.0	100	65 - 135	P	06/04/2025	16:15	LB136011
	Calcium	1880	2000	94	65 - 135	P	06/04/2025	16:15	LB136011
	Chromium	10.8	10.0	108	65 - 135	P	06/04/2025	16:15	LB136011
	Cobalt	29.4	30.0	98	65 - 135	P	06/04/2025	16:15	LB136011
	Copper	22.0	20.0	110	65 - 135	P	06/04/2025	16:15	LB136011
	Iron	102	100	102	65 - 135	P	06/04/2025	16:15	LB136011
	Lead	11.2	12.0	93	65 - 135	P	06/04/2025	16:15	LB136011
	Magnesium	1930	2000	96	65 - 135	P	06/04/2025	16:15	LB136011
	Manganese	18.8	20.0	94	65 - 135	P	06/04/2025	16:15	LB136011
	Nickel	40.6	40.0	102	65 - 135	P	06/04/2025	16:15	LB136011
	Potassium	1840	2000	92	65 - 135	P	06/04/2025	16:15	LB136011
	Selenium	20.9	20.0	105	65 - 135	P	06/04/2025	16:15	LB136011
	Silver	10.0	10.0	100	65 - 135	P	06/04/2025	16:15	LB136011
	Sodium	1720	2000	86	65 - 135	P	06/04/2025	16:15	LB136011
	Thallium	38.5	40.0	96	65 - 135	P	06/04/2025	16:15	LB136011
	Vanadium	37.4	40.0	94	65 - 135	P	06/04/2025	16:15	LB136011
	Zinc	42.5	40.0	106	65 - 135	P	06/04/2025	16:15	LB136011
CRI01	Aluminum	93.4	100	93	65 - 135	P	06/05/2025	16:19	LB136035
	Antimony	50.9	50.0	102	65 - 135	P	06/05/2025	16:19	LB136035
	Arsenic	21.7	20.0	108	65 - 135	P	06/05/2025	16:19	LB136035
	Barium	86.6	100	87	65 - 135	P	06/05/2025	16:19	LB136035
	Beryllium	5.62	6.0	94	65 - 135	P	06/05/2025	16:19	LB136035
	Cadmium	5.91	6.0	98	65 - 135	P	06/05/2025	16:19	LB136035
	Calcium	1840	2000	92	65 - 135	P	06/05/2025	16:19	LB136035
	Chromium	10.3	10.0	103	65 - 135	P	06/05/2025	16:19	LB136035
	Cobalt	29.0	30.0	97	65 - 135	P	06/05/2025	16:19	LB136035
	Copper	21.2	20.0	106	65 - 135	P	06/05/2025	16:19	LB136035
	Iron	111	100	111	65 - 135	P	06/05/2025	16:19	LB136035
	Lead	13.0	12.0	108	65 - 135	P	06/05/2025	16:19	LB136035

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Fax : 908 789 8922

Metals

- 2b -
CRDL STANDARD FOR AA & ICP

Client: Portal Partners Tri-Venture **SDG No.:** Q2198

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q2198 **SAS No.:** Q2198

Initial Calibration Source:

Continuing Calibration Source:

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CRI01	Magnesium	1930	2000	97	65 - 135	P	06/05/2025	16:19	LB136035
	Manganese	18.4	20.0	92	65 - 135	P	06/05/2025	16:19	LB136035
	Nickel	38.8	40.0	97	65 - 135	P	06/05/2025	16:19	LB136035
	Potassium	2280	2000	114	65 - 135	P	06/05/2025	16:19	LB136035
	Selenium	23.1	20.0	116	65 - 135	P	06/05/2025	16:19	LB136035
	Silver	9.86	10.0	99	65 - 135	P	06/05/2025	16:19	LB136035
	Sodium	1910	2000	95	65 - 135	P	06/05/2025	16:19	LB136035
	Thallium	42.1	40.0	105	65 - 135	P	06/05/2025	16:19	LB136035
	Vanadium	35.8	40.0	90	65 - 135	P	06/05/2025	16:19	LB136035
	Zinc	44.7	40.0	112	65 - 135	P	06/05/2025	16:19	LB136035
CRA	Mercury	0.21	0.2	107	70 - 130	CV	06/06/2025	10:12	LB136036
CRI01	Aluminum	104	100	104	65 - 135	P	06/06/2025	13:37	LB136052
	Antimony	48.7	50.0	97	65 - 135	P	06/06/2025	13:37	LB136052
	Arsenic	21.3	20.0	107	65 - 135	P	06/06/2025	13:37	LB136052
	Barium	91.8	100	92	65 - 135	P	06/06/2025	13:37	LB136052
	Beryllium	5.67	6.0	94	65 - 135	P	06/06/2025	13:37	LB136052
	Cadmium	5.92	6.0	99	65 - 135	P	06/06/2025	13:37	LB136052
	Calcium	1900	2000	95	65 - 135	P	06/06/2025	13:37	LB136052
	Chromium	9.75	10.0	98	65 - 135	P	06/06/2025	13:37	LB136052
	Cobalt	29.5	30.0	98	65 - 135	P	06/06/2025	13:37	LB136052
	Copper	20.8	20.0	104	65 - 135	P	06/06/2025	13:37	LB136052
	Iron	112	100	112	65 - 135	P	06/06/2025	13:37	LB136052
	Lead	13.8	12.0	115	65 - 135	P	06/06/2025	13:37	LB136052
	Magnesium	1930	2000	96	65 - 135	P	06/06/2025	13:37	LB136052
	Manganese	18.7	20.0	93	65 - 135	P	06/06/2025	13:37	LB136052
	Nickel	39.5	40.0	99	65 - 135	P	06/06/2025	13:37	LB136052
	Potassium	2490	2000	124	65 - 135	P	06/06/2025	13:37	LB136052
	Selenium	19.7	20.0	98	65 - 135	P	06/06/2025	13:37	LB136052
	Silver	10.1	10.0	101	65 - 135	P	06/06/2025	13:37	LB136052
	Sodium	1800	2000	90	65 - 135	P	06/06/2025	13:37	LB136052
	Thallium	39.1	40.0	98	65 - 135	P	06/06/2025	13:37	LB136052
	Vanadium	36.5	40.0	91	65 - 135	P	06/06/2025	13:37	LB136052
	Zinc	45.4	40.0	113	65 - 135	P	06/06/2025	13:37	LB136052

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Fax : 908 789 8922

Metals
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INTERFERENCE CHECK SAMPLE

Client: Portal Partners Tri-Venture **SDG No.:** Q2198

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q2198 **SAS No.:** Q2198

ICS Source: EPA **Instrument ID:** P4

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Low Limit (ug/L)	High Limit (ug/L)	Analysis Date	Analysis Time	Run Number
ICSA01	Aluminum	241000	255000	94	216000	294000	06/04/2025	16:26	LB136011
	Antimony	-1.17			-50	50	06/04/2025	16:26	LB136011
	Arsenic	1.52			-20	20	06/04/2025	16:26	LB136011
	Barium	0.52	6.0	9	-94	106	06/04/2025	16:26	LB136011
	Beryllium	1.08			-6	6	06/04/2025	16:26	LB136011
	Cadmium	0.92	1.0	92	-5	7	06/04/2025	16:26	LB136011
	Calcium	226000	245000	92	208000	282000	06/04/2025	16:26	LB136011
	Chromium	46.0	52.0	88	42	62	06/04/2025	16:26	LB136011
	Cobalt	0.87			-30	30	06/04/2025	16:26	LB136011
	Copper	2.26	2.0	113	-18	22	06/04/2025	16:26	LB136011
	Iron	103000	101000	102	85600	116500	06/04/2025	16:26	LB136011
	Lead	-0.74			-12	12	06/04/2025	16:26	LB136011
	Magnesium	241000	255000	94	216000	294000	06/04/2025	16:26	LB136011
	Manganese	4.29	7.0	61	-13	27	06/04/2025	16:26	LB136011
	Nickel	2.59	2.0	130	-38	42	06/04/2025	16:26	LB136011
	Potassium	26.5			0	0	06/04/2025	16:26	LB136011
	Selenium	1.80			-20	20	06/04/2025	16:26	LB136011
	Silver	4.01			-10	10	06/04/2025	16:26	LB136011
	Sodium	-67.4			0	0	06/04/2025	16:26	LB136011
	Thallium	-0.73			-40	40	06/04/2025	16:26	LB136011
	Vanadium	4.43			-40	40	06/04/2025	16:26	LB136011
	Zinc	3.39			-40	40	06/04/2025	16:26	LB136011
ICSAB01	Aluminum	247000	247000	100	209000	285000	06/04/2025	16:32	LB136011
	Antimony	645	618	104	525	711	06/04/2025	16:32	LB136011
	Arsenic	106	104	102	88.4	120	06/04/2025	16:32	LB136011
	Barium	469	537	87	437	637	06/04/2025	16:32	LB136011
	Beryllium	484	495	98	420	570	06/04/2025	16:32	LB136011
	Cadmium	1000	972	103	826	1120	06/04/2025	16:32	LB136011
	Calcium	228000	235000	97	199000	271000	06/04/2025	16:32	LB136011
	Chromium	556	542	103	460	624	06/04/2025	16:32	LB136011
	Cobalt	510	476	107	404	548	06/04/2025	16:32	LB136011
	Copper	508	511	99	434	588	06/04/2025	16:32	LB136011
	Iron	101000	99300	102	84400	114500	06/04/2025	16:32	LB136011
	Lead	47.6	49.0	97	37	61	06/04/2025	16:32	LB136011
	Magnesium	246000	248000	99	210000	286000	06/04/2025	16:32	LB136011
	Manganese	468	507	92	430	584	06/04/2025	16:32	LB136011
	Nickel	1010	954	106	810	1100	06/04/2025	16:32	LB136011
	Potassium	22.6			0	0	06/04/2025	16:32	LB136011
	Selenium	56.4	46.0	123	26	66	06/04/2025	16:32	LB136011
	Silver	219	201	109	170	232	06/04/2025	16:32	LB136011
	Sodium	-64.1			0	0	06/04/2025	16:32	LB136011
	Thallium	95.3	108	88	68	148	06/04/2025	16:32	LB136011

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INTERFERENCE CHECK SAMPLE

Client: Portal Partners Tri-Venture **SDG No.:** Q2198

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q2198 **SAS No.:** Q2198

ICS Source: EPA **Instrument ID:** P4

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Low Limit (ug/L)	High Limit (ug/L)	Analysis Date	Analysis Time	Run Number
ICSAB01	Vanadium	461	491	94	417	565	06/04/2025	16:32	LB136011
	Zinc	1050	952	110	809	1095	06/04/2025	16:32	LB136011
ICSA01	Aluminum	244000	255000	96	216000	294000	06/05/2025	16:23	LB136035
	Antimony	-1.93			-50	50	06/05/2025	16:23	LB136035
	Arsenic	3.98			-20	20	06/05/2025	16:23	LB136035
	Barium	2.58	6.0	43	-94	106	06/05/2025	16:23	LB136035
	Beryllium	0.94			-6	6	06/05/2025	16:23	LB136035
	Cadmium	1.32	1.0	132	-5	7	06/05/2025	16:23	LB136035
	Calcium	230000	245000	94	208000	282000	06/05/2025	16:23	LB136035
	Chromium	48.9	52.0	94	42	62	06/05/2025	16:23	LB136035
	Cobalt	0.88			-30	30	06/05/2025	16:23	LB136035
	Copper	19.3	2.0	965	-18	22	06/05/2025	16:23	LB136035
	Iron	103000	101000	102	85600	116500	06/05/2025	16:23	LB136035
	Lead	-0.76			-12	12	06/05/2025	16:23	LB136035
	Magnesium	251000	255000	98	216000	294000	06/05/2025	16:23	LB136035
	Manganese	5.13	7.0	73	-13	27	06/05/2025	16:23	LB136035
	Nickel	2.42	2.0	121	-38	42	06/05/2025	16:23	LB136035
	Potassium	64.7			0	0	06/05/2025	16:23	LB136035
	Selenium	6.36			-20	20	06/05/2025	16:23	LB136035
	Silver	3.31			-10	10	06/05/2025	16:23	LB136035
	Sodium	12.7			0	0	06/05/2025	16:23	LB136035
	Thallium	-7.25			-40	40	06/05/2025	16:23	LB136035
	Vanadium	1.93			-40	40	06/05/2025	16:23	LB136035
	Zinc	3.94			-40	40	06/05/2025	16:23	LB136035
ICSAB01	Aluminum	224000	247000	91	209000	285000	06/05/2025	16:32	LB136035
	Antimony	648	618	105	525	711	06/05/2025	16:32	LB136035
	Arsenic	108	104	104	88.4	120	06/05/2025	16:32	LB136035
	Barium	462	537	86	437	637	06/05/2025	16:32	LB136035
	Beryllium	447	495	90	420	570	06/05/2025	16:32	LB136035
	Cadmium	1010	972	104	826	1120	06/05/2025	16:32	LB136035
	Calcium	213000	235000	91	199000	271000	06/05/2025	16:32	LB136035
	Chromium	564	542	104	460	624	06/05/2025	16:32	LB136035
	Cobalt	510	476	107	404	548	06/05/2025	16:32	LB136035
	Copper	517	511	101	434	588	06/05/2025	16:32	LB136035
	Iron	99900	99300	101	84400	114500	06/05/2025	16:32	LB136035
	Lead	48.0	49.0	98	37	61	06/05/2025	16:32	LB136035
	Magnesium	230000	248000	93	210000	286000	06/05/2025	16:32	LB136035
	Manganese	458	507	90	430	584	06/05/2025	16:32	LB136035
	Nickel	1010	954	106	810	1100	06/05/2025	16:32	LB136035
	Potassium	111			0	0	06/05/2025	16:32	LB136035
	Selenium	58.4	46.0	127	26	66	06/05/2025	16:32	LB136035
	Silver	219	201	109	170	232	06/05/2025	16:32	LB136035

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INTERFERENCE CHECK SAMPLE

Client: Portal Partners Tri-Venture **SDG No.:** Q2198

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q2198 **SAS No.:** Q2198

ICS Source: EPA **Instrument ID:** P4

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Low Limit (ug/L)	High Limit (ug/L)	Analysis Date	Analysis Time	Run Number
ICSAB01	Sodium	-6.15			0	0	06/05/2025	16:32	LB136035
	Thallium	102	108	94	68	148	06/05/2025	16:32	LB136035
	Vanadium	464	491	94	417	565	06/05/2025	16:32	LB136035
	Zinc	1050	952	110	809	1095	06/05/2025	16:32	LB136035
ICSA01	Aluminum	245000	255000	96	216000	294000	06/06/2025	13:42	LB136052
	Antimony	-6.04			-50	50	06/06/2025	13:42	LB136052
	Arsenic	4.57			-20	20	06/06/2025	13:42	LB136052
	Barium	1.92	6.0	32	-94	106	06/06/2025	13:42	LB136052
	Beryllium	1.00			-6	6	06/06/2025	13:42	LB136052
	Cadmium	2.20	1.0	220	-5	7	06/06/2025	13:42	LB136052
	Calcium	223000	245000	91	208000	282000	06/06/2025	13:42	LB136052
	Chromium	45.0	52.0	86	42	62	06/06/2025	13:42	LB136052
	Cobalt	1.09			-30	30	06/06/2025	13:42	LB136052
	Copper	-6.16	2.0	308	-18	22	06/06/2025	13:42	LB136052
	Iron	90700	101000	90	85600	116500	06/06/2025	13:42	LB136052
	Lead	2.11			-12	12	06/06/2025	13:42	LB136052
	Magnesium	242000	255000	95	216000	294000	06/06/2025	13:42	LB136052
	Manganese	1.75	7.0	25	-13	27	06/06/2025	13:42	LB136052
	Nickel	2.48	2.0	124	-38	42	06/06/2025	13:42	LB136052
	Potassium	60.4			0	0	06/06/2025	13:42	LB136052
	Selenium	0.16			-20	20	06/06/2025	13:42	LB136052
	Silver	0.046			-10	10	06/06/2025	13:42	LB136052
	Sodium	9.24			0	0	06/06/2025	13:42	LB136052
	Thallium	-2.69			-40	40	06/06/2025	13:42	LB136052
	Vanadium	5.24			-40	40	06/06/2025	13:42	LB136052
	Zinc	4.89			-40	40	06/06/2025	13:42	LB136052
ICSAB01	Aluminum	250000	247000	101	209000	285000	06/06/2025	13:46	LB136052
	Antimony	617	618	100	525	711	06/06/2025	13:46	LB136052
	Arsenic	106	104	102	88.4	120	06/06/2025	13:46	LB136052
	Barium	477	537	89	437	637	06/06/2025	13:46	LB136052
	Beryllium	459	495	93	420	570	06/06/2025	13:46	LB136052
	Cadmium	970	972	100	826	1120	06/06/2025	13:46	LB136052
	Calcium	230000	235000	98	199000	271000	06/06/2025	13:46	LB136052
	Chromium	545	542	101	460	624	06/06/2025	13:46	LB136052
	Cobalt	492	476	103	404	548	06/06/2025	13:46	LB136052
	Copper	482	511	94	434	588	06/06/2025	13:46	LB136052
	Iron	104000	99300	105	84400	114500	06/06/2025	13:46	LB136052
	Lead	47.1	49.0	96	37	61	06/06/2025	13:46	LB136052
	Magnesium	246000	248000	99	210000	286000	06/06/2025	13:46	LB136052
	Manganese	461	507	91	430	584	06/06/2025	13:46	LB136052
	Nickel	972	954	102	810	1100	06/06/2025	13:46	LB136052
	Potassium	73.7			0	0	06/06/2025	13:46	LB136052

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INTERFERENCE CHECK SAMPLE

Client: Portal Partners Tri-Venture **SDG No.:** Q2198

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q2198 **SAS No.:** Q2198

ICS Source: EPA **Instrument ID:** P4

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Low Limit (ug/L)	High Limit (ug/L)	Analysis Date	Analysis Time	Run Number
ICSAB01	Selenium	42.7	46.0	93	26	66	06/06/2025	13:46	LB136052
	Silver	213	201	106	170	232	06/06/2025	13:46	LB136052
	Sodium	5.90			0	0	06/06/2025	13:46	LB136052
	Thallium	93.8	108	87	68	148	06/06/2025	13:46	LB136052
	Vanadium	464	491	94	417	565	06/06/2025	13:46	LB136052
	Zinc	1030	952	108	809	1095	06/06/2025	13:46	LB136052

METAL QC DATA

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MATRIX SPIKE SUMMARY

client: Portal Partners Tri-Venture **level:** low **sdg no.:** Q2198

contract: PORT06 **lab code:** CHEM **case no.:** Q2198 **sas no.:** Q2198

matrix: Solid **sample id:** Q2195-01 **client id:** OK-01-060325MS

Percent Solids for Sample: 94.4 **Spiked ID:** Q2195-01MS **Percent Solids for Spike Sample:** 94.4

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	mg/Kg	75 - 125	7080		6560		96.7	546		P
Antimony	mg/Kg	75 - 125	12.8		2.46	U	38.7	33	N	P
Arsenic	mg/Kg	75 - 125	33.0		1.40		38.7	82		P
Barium	mg/Kg	75 - 125	45.7		32.7		9.7	134	N	P
Beryllium	mg/Kg	75 - 125	7.37		0.29	J	9.7	73	N	P
Cadmium	mg/Kg	75 - 125	10.8		0.70		9.7	104		P
Calcium	mg/Kg	75 - 125	3380		2630		48.4	1553		P
Chromium	mg/Kg	75 - 125	37.4		17.7		19.3	102		P
Cobalt	mg/Kg	75 - 125	21.5		10.1		9.7	118		P
Copper	mg/Kg	75 - 125	53.9		38.9		14.5	104		P
Iron	mg/Kg	75 - 125	16700		15000		150	1152		P
Lead	mg/Kg	75 - 125	53.9		4.53		48.4	102		P
Magnesium	mg/Kg	75 - 125	4380		3660		96.7	745		P
Manganese	mg/Kg	75 - 125	216		203		9.7	134		P
Mercury	mg/Kg	80 - 120	0.22		0.0090	J	0.27	79	N	CV
Nickel	mg/Kg	75 - 125	45.4		17.9		24.2	114		P
Potassium	mg/Kg	75 - 125	2560		1810		480	157	N	P
Selenium	mg/Kg	75 - 125	76.0		0.99	U	96.7	79		P
Silver	mg/Kg	75 - 125	3.77		0.77		3.6	84		P
Sodium	mg/Kg	75 - 125	217		234		150	-12	N	P
Thallium	mg/Kg	75 - 125	92.7		1.97	U	96.7	96		P
Vanadium	mg/Kg	75 - 125	39.3		26.0		14.5	92		P
Zinc	mg/Kg	75 - 125	39.5		25.8		9.7	141	N	P

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MATRIX SPIKE DUPLICATE SUMMARY

client: Portal Partners Tri-Venture **level:** low **sdg no.:** Q2198

contract: PORT06 **lab code:** CHEM **case no.:** Q2198 **sas no.:** Q2198

matrix: Solid **sample id:** Q2195-01 **client id:** OK-01-060325MSD

Percent Solids for Sample: 94.4 **Spiked ID:** Q2195-01MSD **Percent Solids for Spike Sample:** 94.4

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	mg/Kg	75 - 125	7130		6560		92.5	620		P
Antimony	mg/Kg	75 - 125	11.4		2.46	U	37.0	31	N	P
Arsenic	mg/Kg	75 - 125	30.4		1.40		37.0	78		P
Barium	mg/Kg	75 - 125	39.3		32.7		9.3	71	N	P
Beryllium	mg/Kg	75 - 125	6.79		0.29	J	9.3	70	N	P
Cadmium	mg/Kg	75 - 125	10.0		0.70		9.3	100		P
Calcium	mg/Kg	75 - 125	2900		2630		46.3	581		P
Chromium	mg/Kg	75 - 125	31.1		17.7		18.5	72	N	P
Cobalt	mg/Kg	75 - 125	19.4		10.1		9.3	100		P
Copper	mg/Kg	75 - 125	48.8		38.9		13.9	71	N	P
Iron	mg/Kg	75 - 125	14400		15000		140	-439		P
Lead	mg/Kg	75 - 125	50.1		4.53		46.3	98		P
Magnesium	mg/Kg	75 - 125	3740		3660		92.5	90		P
Manganese	mg/Kg	75 - 125	188		203		9.3	-153		P
Mercury	mg/Kg	80 - 120	0.22		0.0090	J	0.26	82		CV
Nickel	mg/Kg	75 - 125	41.3		17.9		23.1	101		P
Potassium	mg/Kg	75 - 125	2070		1810		460	57	N	P
Selenium	mg/Kg	75 - 125	69.8		0.99	U	92.5	76		P
Silver	mg/Kg	75 - 125	3.25		0.77		3.5	71	N	P
Sodium	mg/Kg	75 - 125	253		234		140	13	N	P
Thallium	mg/Kg	75 - 125	86.7		1.97	U	92.5	94		P
Vanadium	mg/Kg	75 - 125	37.1		26.0		13.9	80		P
Zinc	mg/Kg	75 - 125	32.9		25.8		9.3	76		P

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MATRIX SPIKE SUMMARY

client: Portal Partners Tri-Venture **level:** low **sdg no.:** Q2198

contract: PORT06 **lab code:** CHEM **case no.:** Q2198 **sas no.:** Q2198

matrix: Water **sample id:** Q2198-05 **client id:** B-202-GW01MS

Percent Solids for Sample: NA **Spiked ID:** Q2198-05MS **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	ug/L	75 - 125	29600	D	23100	D	1000	652		P
Antimony	ug/L	75 - 125	281	D	125	UD	400	70	N	P
Arsenic	ug/L	75 - 125	355	D	50.0	UD	400	87		P
Barium	ug/L	75 - 125	174	JD	68.1	JD	100	106		P
Beryllium	ug/L	75 - 125	98.5	D	15.0	UD	100	97		P
Cadmium	ug/L	75 - 125	97.6	D	15.0	UD	100	97		P
Calcium	ug/L	75 - 125	37400	D	33200	D	500	832		P
Chromium	ug/L	75 - 125	254	D	59.5	D	200	97		P
Cobalt	ug/L	75 - 125	106	D	6.74	JD	100	99		P
Copper	ug/L	75 - 125	199	D	50.5	D	150	99		P
Iron	ug/L	75 - 125	31800	D	26800	D	1500	336		P
Lead	ug/L	75 - 125	555	D	79.0	D	500	95		P
Magnesium	ug/L	75 - 125	41400	D	36300	D	1000	504		P
Manganese	ug/L	75 - 125	490	D	354	D	100	136	N	P
Nickel	ug/L	75 - 125	272	D	23.9	JD	250	99		P
Potassium	ug/L	75 - 125	37500	D	30400	D	5000	141		P
Selenium	ug/L	75 - 125	867	D	50.0	UD	1000	87		P
Silver	ug/L	75 - 125	35.9	D	25.0	UD	37.5	93		P
Sodium	ug/L	75 - 125	395000	D	367000	D	1500	1833		P
Thallium	ug/L	75 - 125	942	D	100	UD	1000	95		P
Vanadium	ug/L	75 - 125	227	D	77.0	JD	150	100		P
Zinc	ug/L	75 - 125	239	D	149	D	100	90		P

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MATRIX SPIKE DUPLICATE SUMMARY

client: Portal Partners Tri-Venture **level:** low **sdg no.:** Q2198

contract: PORT06 **lab code:** CHEM **case no.:** Q2198 **sas no.:** Q2198

matrix: Water **sample id:** Q2198-05 **client id:** B-202-GW01MSD

Percent Solids for Sample: NA **Spiked ID:** Q2198-05MSD **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	ug/L	75 - 125	30200	D	23100	D	1000	710		P
Antimony	ug/L	75 - 125	285	D	125	UD	400	71	N	P
Arsenic	ug/L	75 - 125	360	D	50.0	UD	400	88		P
Barium	ug/L	75 - 125	176	JD	68.1	JD	100	107		P
Beryllium	ug/L	75 - 125	99.5	D	15.0	UD	100	98		P
Cadmium	ug/L	75 - 125	99.4	D	15.0	UD	100	99		P
Calcium	ug/L	75 - 125	37700	D	33200	D	500	886		P
Chromium	ug/L	75 - 125	265	D	59.5	D	200	103		P
Cobalt	ug/L	75 - 125	108	D	6.74	JD	100	101		P
Copper	ug/L	75 - 125	203	D	50.5	D	150	102		P
Iron	ug/L	75 - 125	34000	D	26800	D	1500	479		P
Lead	ug/L	75 - 125	568	D	79.0	D	500	98		P
Magnesium	ug/L	75 - 125	41800	D	36300	D	1000	543		P
Manganese	ug/L	75 - 125	493	D	354	D	100	138	N	P
Nickel	ug/L	75 - 125	277	D	23.9	JD	250	101		P
Potassium	ug/L	75 - 125	39800	D	30400	D	5000	189		P
Selenium	ug/L	75 - 125	873	D	50.0	UD	1000	88		P
Silver	ug/L	75 - 125	37.1	D	25.0	UD	37.5	96		P
Sodium	ug/L	75 - 125	414000	D	367000	D	1500	3103		P
Thallium	ug/L	75 - 125	946	D	100	UD	1000	95		P
Vanadium	ug/L	75 - 125	230	D	77.0	JD	150	102		P
Zinc	ug/L	75 - 125	245	D	149	D	100	96		P

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MATRIX SPIKE SUMMARY

client: Portal Partners Tri-Venture **level:** low **sdg no.:** Q2198

contract: PORT06 **lab code:** CHEM **case no.:** Q2198 **sas no.:** Q2198

matrix: Water **sample id:** Q2216-02 **client id:** 3887MS

Percent Solids for Sample: NA **Spiked ID:** Q2216-02MS **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	ug/L	75 - 125	4.16		0.20	U	4.0	104		CV

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metals
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MATRIX SPIKE DUPLICATE SUMMARY

client: Portal Partners Tri-Venture **level:** low **sdg no.:** Q2198

contract: PORT06 **lab code:** CHEM **case no.:** Q2198 **sas no.:** Q2198

matrix: Water **sample id:** Q2216-02 **client id:** 3887MSD

Percent Solids for Sample: NA **Spiked ID:** Q2216-02MSD **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	ug/L	75 - 125	3.65		0.20	U	4.0	91		CV

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Metals
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POST DIGEST SPIKE SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q2198

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q2198 **SAS No.:** Q2198

Matrix: Solid **Level:** LOW **Client ID:** OK-01-060325A

Sample ID: Q2195-01 **Spiked ID:** Q2195-01A

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Antimony	mg/Kg	75 - 125	32.0		2.46	U	39.4	81		P
Barium	mg/Kg	75 - 125	36.9		32.7		9.90	42	N	P
Beryllium	mg/Kg	75 - 125	7.75		0.29	J	9.90	75		P
Chromium	mg/Kg	75 - 125	31.9		17.7		19.7	72	N	P
Copper	mg/Kg	75 - 125	47.9		38.9		14.8	61	N	P
Mercury	mg/Kg	80 - 120	0.30		0.0090	J	0.26	110		CV
Potassium	mg/Kg	75 - 125	2070		1810		490	54	N	P
Silver	mg/Kg	75 - 125	3.78		0.77		3.70	82		P
Sodium	mg/Kg	75 - 125	243		234		150	6	N	P
Zinc	mg/Kg	75 - 125	33.6		25.8		9.90	78		P

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Metals
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POST DIGEST SPIKE SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q2198

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q2198 **SAS No.:** Q2198

Matrix: Water **Level:** LOW **Client ID:** B-202-GW01A

Sample ID: Q2198-05 **Spiked ID:** Q2198-05A

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Antimony	ug/L	75 - 125	371	D	125	UD	2000	18	N	P
Manganese	ug/L	75 - 125	440	D	354	D	500	17	N	P

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Metals

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DUPLICATE SAMPLE SUMMARY

Client: Portal Partners Tri-Venture **Level:** LOW **SDG No.:** Q2198

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q2198 **SAS No.:** Q2198

Matrix: Solid **Sample ID:** Q2195-01 **Client ID:** OK-01-060325DUP

Percent Solids for Sample: 94.4 **Duplicate ID** Q2195-01DUP **Percent Solids for Spike Sample:** 94.4

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	mg/Kg	20	6560		5730		14		P
Antimony	mg/Kg	20	2.46	U	2.40	U			P
Arsenic	mg/Kg	20	1.40		1.22		14		P
Barium	mg/Kg	20	32.7		28.5		14		P
Beryllium	mg/Kg	20	0.29	J	0.26	J	9		P
Cadmium	mg/Kg	20	0.70		0.43		48	*	P
Calcium	mg/Kg	20	2630		2770		5		P
Chromium	mg/Kg	20	17.7		15.4		14		P
Cobalt	mg/Kg	20	10.1		8.69		15		P
Copper	mg/Kg	20	38.9		34.3		13		P
Iron	mg/Kg	20	15000		13400		11		P
Lead	mg/Kg	20	4.53		4.82		6		P
Magnesium	mg/Kg	20	3660		3330		9		P
Manganese	mg/Kg	20	203		177		14		P
Mercury	mg/Kg	20	0.0090	J	0.014	U	200.0		CV
Nickel	mg/Kg	20	17.9		15.3		16		P
Potassium	mg/Kg	20	1810		1600		12		P
Selenium	mg/Kg	20	0.99	U	0.36	J	200.0		P
Silver	mg/Kg	20	0.77		0.69		10		P
Sodium	mg/Kg	20	234		174		29	*	P
Thallium	mg/Kg	20	1.97	U	1.92	U			P
Vanadium	mg/Kg	20	26.0		24.3		7		P
Zinc	mg/Kg	20	25.8		24.1		7		P

"A control limit of ±20% RPD for each matrix applies for sample values greater than 10 times Detection Limit"

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Metals

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DUPLICATE SAMPLE SUMMARY

Client: Portal Partners Tri-Venture **Level:** LOW **SDG No.:** Q2198

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q2198 **SAS No.:** Q2198

Matrix: Solid **Sample ID:** Q2195-01MS **Client ID:** OK-01-060325MSD

Percent Solids for Sample: 94.4 **Duplicate ID** Q2195-01MSD **Percent Solids for Spike Sample:** 94.4

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	mg/Kg	20	7080		7130		1		P
Antimony	mg/Kg	20	12.8		11.4		12		P
Arsenic	mg/Kg	20	33.0		30.4		8		P
Barium	mg/Kg	20	45.7		39.3		15		P
Beryllium	mg/Kg	20	7.37		6.79		8		P
Cadmium	mg/Kg	20	10.8		10.0		7		P
Calcium	mg/Kg	20	3380		2900		15		P
Chromium	mg/Kg	20	37.4		31.1		18		P
Cobalt	mg/Kg	20	21.5		19.4		10		P
Copper	mg/Kg	20	53.9		48.8		10		P
Iron	mg/Kg	20	16700		14400		15		P
Lead	mg/Kg	20	53.9		50.1		7		P
Magnesium	mg/Kg	20	4380		3740		16		P
Manganese	mg/Kg	20	216		188		14		P
Mercury	mg/Kg	20	0.22		0.22		0		CV
Nickel	mg/Kg	20	45.4		41.3		9		P
Potassium	mg/Kg	20	2560		2070		21	*	P
Selenium	mg/Kg	20	76.0		69.8		9		P
Silver	mg/Kg	20	3.77		3.25		15		P
Sodium	mg/Kg	20	217		253		15		P
Thallium	mg/Kg	20	92.7		86.7		7		P
Vanadium	mg/Kg	20	39.3		37.1		6		P
Zinc	mg/Kg	20	39.5		32.9		18		P

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Metals

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DUPLICATE SAMPLE SUMMARY

Client: Portal Partners Tri-Venture **Level:** LOW **SDG No.:** Q2198

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q2198 **SAS No.:** Q2198

Matrix: Water **Sample ID:** Q2198-05 **Client ID:** B-202-GW01DUP

Percent Solids for Sample: NA **Duplicate ID** Q2198-05DUP **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	ug/L	20	23100	D	25100	D	8		P
Antimony	ug/L	20	125	UD	125	UD			P
Arsenic	ug/L	20	50.0	UD	50.0	UD			P
Barium	ug/L	20	68.1	JD	79.7	JD	16		P
Beryllium	ug/L	20	15.0	UD	15.0	UD			P
Cadmium	ug/L	20	15.0	UD	15.0	UD			P
Calcium	ug/L	20	33200	D	36700	D	10		P
Chromium	ug/L	20	59.5	D	62.6	D	5		P
Cobalt	ug/L	20	6.74	JD	7.08	JD	5		P
Copper	ug/L	20	50.5	D	52.9	D	5		P
Iron	ug/L	20	26800	D	32400	D	19		P
Lead	ug/L	20	79.0	D	86.6	D	9		P
Magnesium	ug/L	20	36300	D	39400	D	8		P
Manganese	ug/L	20	354	D	394	D	11		P
Nickel	ug/L	20	23.9	JD	24.9	JD	4		P
Potassium	ug/L	20	30400	D	35800	D	16		P
Selenium	ug/L	20	50.0	UD	50.0	UD			P
Silver	ug/L	20	25.0	UD	25.0	UD			P
Sodium	ug/L	20	367000	D	436000	D	17		P
Thallium	ug/L	20	100	UD	100	UD			P
Vanadium	ug/L	20	77.0	JD	85.5	JD	10		P
Zinc	ug/L	20	149	D	141	D	6		P

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DUPLICATE SAMPLE SUMMARY

Client: Portal Partners Tri-Venture **Level:** LOW **SDG No.:** Q2198

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q2198 **SAS No.:** Q2198

Matrix: Water **Sample ID:** Q2198-05MS **Client ID:** B-202-GW01MSD

Percent Solids for Sample: NA **Duplicate ID** Q2198-05MSD **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	ug/L	20	29600	D	30200	D	2		P
Antimony	ug/L	20	281	D	285	D	1		P
Arsenic	ug/L	20	355	D	360	D	1		P
Barium	ug/L	20	174	JD	176	JD	1		P
Beryllium	ug/L	20	98.5	D	99.5	D	1		P
Cadmium	ug/L	20	97.6	D	99.4	D	2		P
Calcium	ug/L	20	37400	D	37700	D	1		P
Chromium	ug/L	20	254	D	265	D	4		P
Cobalt	ug/L	20	106	D	108	D	2		P
Copper	ug/L	20	199	D	203	D	2		P
Iron	ug/L	20	31800	D	34000	D	7		P
Lead	ug/L	20	555	D	568	D	2		P
Magnesium	ug/L	20	41400	D	41800	D	1		P
Manganese	ug/L	20	490	D	493	D	1		P
Nickel	ug/L	20	272	D	277	D	2		P
Potassium	ug/L	20	37500	D	39800	D	6		P
Selenium	ug/L	20	867	D	873	D	1		P
Silver	ug/L	20	35.9	D	37.1	D	3		P
Sodium	ug/L	20	395000	D	414000	D	5		P
Thallium	ug/L	20	942	D	946	D	0		P
Vanadium	ug/L	20	227	D	230	D	1		P
Zinc	ug/L	20	239	D	245	D	2		P

"A control limit of ±20% RPD for each matrix applies for sample values greater than 10 times Detection Limit"

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DUPLICATE SAMPLE SUMMARY

Client: Portal Partners Tri-Venture **Level:** LOW **SDG No.:** Q2198

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q2198 **SAS No.:** Q2198

Matrix: Water **Sample ID:** Q2216-02 **Client ID:** 3887DUP

Percent Solids for Sample: NA **Duplicate ID** Q2216-02DUP **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Mercury	ug/L	20	0.20	U	0.20	U			CV

"A control limit of ±20% RPD for each matrix applies for sample values greater than 10 times Detection Limit"

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Metals

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DUPLICATE SAMPLE SUMMARY

Client: Portal Partners Tri-Venture **Level:** LOW **SDG No.:** Q2198

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q2198 **SAS No.:** Q2198

Matrix: Water **Sample ID:** Q2216-02MS **Client ID:** 3887MSD

Percent Solids for Sample: NA **Duplicate ID** Q2216-02MSD **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Mercury	ug/L	20	4.16		3.65		13		CV

"A control limit of ±20% RPD for each matrix applies for sample values greater than 10 times Detection Limit"

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LABORATORY CONTROL SAMPLE SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q2198

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q2198 **SAS No.:** Q2198

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB168276BS							
Aluminum	ug/L	1000	904		90	80 - 120	P
Antimony	ug/L	400	387		97	80 - 120	P
Arsenic	ug/L	400	368		92	80 - 120	P
Barium	ug/L	100	89.5		90	80 - 120	P
Beryllium	ug/L	100	94.7		95	80 - 120	P
Cadmium	ug/L	100	93.3		93	80 - 120	P
Calcium	ug/L	500	466	J	93	80 - 120	P
Chromium	ug/L	200	190		95	80 - 120	P
Cobalt	ug/L	100	95.1		95	80 - 120	P
Copper	ug/L	150	148		99	80 - 120	P
Iron	ug/L	1500	1410		94	80 - 120	P
Lead	ug/L	500	459		92	80 - 120	P
Magnesium	ug/L	1000	925	J	92	80 - 120	P
Manganese	ug/L	100	94.5		94	80 - 120	P
Nickel	ug/L	250	237		95	80 - 120	P
Potassium	ug/L	5000	4470		89	80 - 120	P
Selenium	ug/L	1000	931		93	80 - 120	P
Silver	ug/L	37.5	34.8		93	80 - 120	P
Sodium	ug/L	1500	1310		87	80 - 120	P
Thallium	ug/L	1000	927		93	80 - 120	P
Vanadium	ug/L	150	137		91	80 - 120	P
Zinc	ug/L	100	95.4		95	80 - 120	P

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LABORATORY CONTROL SAMPLE SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q2198

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q2198 **SAS No.:** Q2198

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB168279BS							
Aluminum	mg/Kg	100	105		105	80 - 120	P
Antimony	mg/Kg	40.0	43.8		110	80 - 120	P
Arsenic	mg/Kg	40.0	42.4		106	80 - 120	P
Barium	mg/Kg	10.0	9.98		100	80 - 120	P
Beryllium	mg/Kg	10.0	10.5		105	80 - 120	P
Cadmium	mg/Kg	10.0	10.6		106	80 - 120	P
Calcium	mg/Kg	50.0	53.4	J	107	80 - 120	P
Chromium	mg/Kg	20.0	21.9		110	80 - 120	P
Cobalt	mg/Kg	10.0	10.6		106	80 - 120	P
Copper	mg/Kg	15.0	16.6		111	80 - 120	P
Iron	mg/Kg	150	158		105	80 - 120	P
Lead	mg/Kg	50.0	52.0		104	80 - 120	P
Magnesium	mg/Kg	100	102		102	80 - 120	P
Manganese	mg/Kg	10.0	10.4		104	80 - 120	P
Nickel	mg/Kg	25.0	26.7		107	80 - 120	P
Potassium	mg/Kg	500	505		101	80 - 120	P
Selenium	mg/Kg	100	107		107	80 - 120	P
Silver	mg/Kg	3.8	3.91		103	80 - 120	P
Sodium	mg/Kg	150	147		98	80 - 120	P
Thallium	mg/Kg	100	108		108	80 - 120	P
Vanadium	mg/Kg	15.0	15.6		104	80 - 120	P
Zinc	mg/Kg	10.0	11.0		110	80 - 120	P

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LABORATORY CONTROL SAMPLE SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q2198

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q2198 **SAS No.:** Q2198

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB168290BS							
Mercury	mg/Kg	0.26	0.23		89	80 - 120	CV

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LABORATORY CONTROL SAMPLE SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q2198

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q2198 **SAS No.:** Q2198

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB168317BS							
Mercury	ug/L	4.0	3.53		88	80 - 120	CV

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ICP SERIAL DILUTIONS

SAMPLE NO.

OK-01-060325L

Lab Name: Chemtech Consulting Group **Contract:** PORT06

Lab Code: CHEM **Lb No.:** lb136035 **Lab Sample ID :** Q2195-01L **SDG No.:** Q2198

Matrix (soil/water): Solid **Level (low/med):** LOW

Concentration Units: mg/Kg

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Aluminum	6560		7670		17		P
Antimony	2.46	U	12.3	U			P
Arsenic	1.40		1.59	J	14		P
Barium	32.7		37.8		16		P
Beryllium	0.29	J	0.36	J	26		P
Cadmium	0.70		1.48	U	100.0		P
Calcium	2630		3180		21		P
Chromium	17.7		21.9		24		P
Cobalt	10.1		9.55		6		P
Copper	38.9		46.9		21		P
Iron	15000		18100		20		P
Lead	4.53		4.58		1		P
Magnesium	3660		4320		18		P
Manganese	203		245		21		P
Mercury	0.0090	J	0.066	U	100.0		CV
Nickel	17.9		17.4		3		P
Potassium	1810		2000		11		P
Selenium	0.99	U	4.93	U			P
Silver	0.77		0.89	J	16		P
Sodium	234		250	J	7		P
Thallium	1.97	U	9.85	U			P
Vanadium	26.0		30.6		18		P
Zinc	25.8		32.7		27		P

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ICP SERIAL DILUTIONS

SAMPLE NO.

B-202-GW01L

Lab Name: Chemtech Consulting Group **Contract:** PORT06

Lab Code: CHEM **Lb No.:** lb136011 **Lab Sample ID :** Q2198-05L **SDG No.:** Q2198

Matrix (soil/water): Water **Level (low/med):** LOW

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Aluminum	23100	D	23300	D	1		P
Antimony	125	UD	625	UD			P
Arsenic	50.0	UD	250	UD			P
Barium	68.1	JD	1250	UD	29		P
Beryllium	15.0	UD	75.0	UD			P
Cadmium	15.0	UD	75.0	UD			P
Calcium	33200	D	34900	D	5		P
Chromium	59.5	D	61.1	JD	3		P
Cobalt	6.74	JD	375	UD	7		P
Copper	50.5	D	250	UD	11		P
Iron	26800	D	29800	D	11		P
Lead	79.0	D	71.9	JD	9		P
Magnesium	36300	D	37200	D	2		P
Manganese	354	D	376	D	6		P
Nickel	23.9	JD	500	UD	16		P
Potassium	30400	D	31400	D	3		P
Selenium	50.0	UD	250	UD			P
Silver	25.0	UD	125	UD			P
Sodium	367000	D	394000	D	7		P
Thallium	100	UD	500	UD			P
Vanadium	77.0	JD	500	UD	13		P
Zinc	149	D	500	UD	4		P

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ICP SERIAL DILUTIONS

SAMPLE NO.

3887L

Lab Name: Chemtech Consulting Group **Contract:** PORT06

Lab Code: CHEM **Lb No.:** lb136036 **Lab Sample ID :** Q2216-02L **SDG No.:** Q2198

Matrix (soil/water): Water **Level (low/med):** LOW

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Mercury	0.20	U	1.00	U			CV

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ANALYSIS RUN LOG

Client: Portal Partners Tri-Venture **Contract:** PORT06

Lab code: CHEM **Case no.:** Q2198 **Sas no.:** Q2198 **Sdg no.:** Q2198

Instrument id number: **Method:** **Run number:** LB136001

Start date: 06/04/2025 **End date:** 06/04/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1445	HG
S0.2	S0.2	1	1448	HG
S2.5	S2.5	1	1450	HG
S5	S5	1	1452	HG
S7.5	S7.5	1	1454	HG
S10	S10	1	1457	HG
ICV27	ICV27	1	1504	HG
ICB27	ICB27	1	1506	HG
CCV01	CCV01	1	1509	HG
CCB01	CCB01	1	1514	HG
CRA	CRA	1	1521	HG
PB168290BL	PB168290BL	1	1533	HG
PB168290BS	PB168290BS	1	1538	HG
Q2195-01DUP	OK-01-060325DUP	1	1550	HG
CCV02	CCV02	1	1559	HG
CCB02	CCB02	1	1601	HG
Q2195-01MS	OK-01-060325MS	1	1604	HG
Q2195-01MSD	OK-01-060325MSD	1	1606	HG
Q2198-01	B-202-SB02	1	1608	HG
Q2198-03	B-207-SB02	1	1610	HG
Q2195-01L	OK-01-060325L	5	1620	HG
Q2195-01A	OK-01-060325A	1	1625	HG
CCV03	CCV03	1	1627	HG
CCB03	CCB03	1	1629	HG

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metals
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ANALYSIS RUN LOG

Client: Portal Partners Tri-Venture **Contract:** PORT06

Lab code: CHEM **Case no.:** Q2198 **Sas no.:** Q2198 **Sdg no.:** Q2198

Instrument id number: **Method:** **Run number:** LB136011

Start date: 06/04/2025 **End date:** 06/04/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1418	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S1	S1	1	1423	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S2	S2	1	1427	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S3	S3	1	1431	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S4	S4	1	1435	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S5	S5	1	1439	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICV01	ICV01	1	1549	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
LLICV01	LLICV01	1	1606	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICB01	ICB01	1	1610	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CRI01	CRI01	1	1615	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICSA01	ICSA01	1	1626	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICSAB01	ICSAB01	1	1632	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV01	CCV01	1	1645	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB01	CCB01	1	1652	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV02	CCV02	1	1735	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB02	CCB02	1	1739	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV03	CCV03	1	1837	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB03	CCB03	1	1842	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV04	CCV04	1	1926	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB04	CCB04	1	1930	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV05	CCV05	1	2012	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB05	CCB05	1	2016	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
PB168276BL	PB168276BL	1	2046	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
PB168276BS	PB168276BS	1	2050	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV06	CCV06	1	2058	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB06	CCB06	1	2102	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2198-05	B-202-GW01	5	2107	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2198-05DUP	B-202-GW01DUP	5	2111	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2198-05L	B-202-GW01L	25	2115	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2198-05MS	B-202-GW01MS	5	2120	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2198-05MSD	B-202-GW01MSD	5	2124	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2198-05A	B-202-GW01A	5	2128	Mn,Sb
CCV07	CCV07	1	2141	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB07	CCB07	1	2145	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV08	CCV08	1	2206	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB08	CCB08	1	2210	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn

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ANALYSIS RUN LOG

Client: Portal Partners Tri-Venture **Contract:** PORT06

Lab code: CHEM **Case no.:** Q2198 **Sas no.:** Q2198 **Sdg no.:** Q2198

Instrument id number: **Method:** **Run number:** LB136035

Start date: 06/05/2025 **End date:** 06/05/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1511	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S1	S1	1	1516	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S2	S2	1	1520	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S3	S3	1	1524	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S4	S4	1	1528	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S5	S5	1	1532	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICV01	ICV01	1	1555	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
LLICV01	LLICV01	1	1609	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICB01	ICB01	1	1614	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CRI01	CRI01	1	1619	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICSA01	ICSA01	1	1623	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICSAB01	ICSAB01	1	1632	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV01	CCV01	1	1650	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB01	CCB01	1	1654	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV02	CCV02	1	1746	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB02	CCB02	1	1750	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV03	CCV03	1	1943	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB03	CCB03	1	1947	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2195-01DUP	OK-01-060325DUP	1	2008	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2195-01L	OK-01-060325L	5	2012	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2195-01MS	OK-01-060325MS	1	2016	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2195-01MSD	OK-01-060325MSD	1	2020	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2195-01A	OK-01-060325A	1	2024	Ag,Ba,Be,Cr,Cu,K,Na,Sb,Zn
CCV04	CCV04	1	2028	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB04	CCB04	1	2032	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2198-01	B-202-SB02	1	2037	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2198-03	B-207-SB02	1	2041	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV05	CCV05	1	2351	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB05	CCB05	1	2356	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn

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ANALYSIS RUN LOG

Client: Portal Partners Tri-Venture **Contract:** PORT06

Lab code: CHEM **Case no.:** Q2198 **Sas no.:** Q2198 **Sdg no.:** Q2198

Instrument id number: **Method:** **Run number:** LB136036

Start date: 06/06/2025 **End date:** 06/06/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	0948	HG
S0.2	S0.2	1	0950	HG
S2.5	S2.5	1	0953	HG
S5	S5	1	0955	HG
S7.5	S7.5	1	0957	HG
S10	S10	1	1000	HG
ICV29	ICV29	1	1003	HG
ICB29	ICB29	1	1005	HG
CCV08	CCV08	1	1007	HG
CCB08	CCB08	1	1010	HG
CRA	CRA	1	1012	HG
CCV09	CCV09	1	1037	HG
CCB09	CCB09	1	1040	HG
CCV10	CCV10	1	1104	HG
CCB10	CCB10	1	1107	HG
PB168317BL	PB168317BL	1	1116	HG
PB168317BS	PB168317BS	1	1121	HG
Q2198-05	B-202-GW01	1	1125	HG
Q2216-02DUP	3887DUP	1	1132	HG
CCV11	CCV11	1	1141	HG
CCB11	CCB11	1	1143	HG
Q2216-02MS	3887MS	1	1148	HG
Q2216-02MSD	3887MSD	1	1150	HG
CCV12	CCV12	1	1206	HG
CCB12	CCB12	1	1208	HG
Q2216-02L	3887L	5	1222	HG
CCV13	CCV13	1	1233	HG
CCB13	CCB13	1	1235	HG

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ANALYSIS RUN LOG

Client: Portal Partners Tri-Venture **Contract:** PORT06

Lab code: CHEM **Case no.:** Q2198 **Sas no.:** Q2198 **Sdg no.:** Q2198

Instrument id number: **Method:** **Run number:** LB136052

Start date: 06/06/2025 **End date:** 06/07/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1250	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S1	S1	1	1254	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S2	S2	1	1259	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S3	S3	1	1303	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S4	S4	1	1307	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S5	S5	1	1312	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICV01	ICV01	1	1316	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
LLICV01	LLICV01	1	1329	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICB01	ICB01	1	1333	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CRI01	CRI01	1	1337	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICSA01	ICSA01	1	1342	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICSAB01	ICSAB01	1	1346	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV01	CCV01	1	1405	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB01	CCB01	1	1409	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
PB168279BL	PB168279BL	1	1413	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
PB168279BS	PB168279BS	1	1418	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV02	CCV02	1	1456	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB02	CCB02	1	1500	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV03	CCV03	1	1550	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB03	CCB03	1	1557	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV04	CCV04	1	1646	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB04	CCB04	1	1651	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV05	CCV05	1	1740	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB05	CCB05	1	1746	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV06	CCV06	1	0303	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB06	CCB06	1	0307	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV07	CCV07	1	0340	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB07	CCB07	1	0344	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn

METAL PREPARATION & INSTRUMENT DATA

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Metals
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ICP INTERELEMENT CORRECTION FACTORS

Client: Portal Partners Tri-Venture **SDG No.:** Q2198

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q2198 **SAS No.:** Q2198

Instrument ID: **Date:**

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave-Length (nm)	ICP Interelement Correction Factors For: Al	Ca	Fe	Mg	Ag
Aluminum	396.100	0.0000000	-0.0002060	0.0000000	0.0000000	0.0000000
Antimony	206.833	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	193.759	0.0000000	0.0000000	-0.0000440	0.0000000	0.0000000
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	234.861	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.502	0.0000000	0.0000000	0.0000930	0.0000000	0.0000000
Calcium	373.690	0.0000000	0.0000000	-0.0075970	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.616	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	224.700	0.0000000	0.0000000	0.0007850	0.0000000	0.0000000
Iron	240.488	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.353	-0.0000920	0.0000000	0.0000380	0.0000000	0.0000000
Magnesium	279.079	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.610	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.604	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.490	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.090	0.0000000	0.0000000	-0.0001440	0.0000000	0.0000000
Silver	328.068	0.0000000	0.0000000	-0.0001490	0.0000000	0.0000000
Sodium	589.592	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.856	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.402	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	213.800	0.0000000	0.0000000	0.0001050	0.0000000	0.0000000

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Metals
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ICP INTERELEMENT CORRECTION FACTORS

Client: Portal Partners Tri-Venture **SDG No.:** Q2198

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q2198 **SAS No.:** Q2198

Instrument ID: **Date:**

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave-Length (nm)	ICP Interelement Correction Factors For: As	Ba	Be	Cd	Co
Aluminum	396.100	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.833	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	193.759	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	234.861	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.502	0.0000000	0.0000000	0.0000000	0.0000000	0.0002870
Calcium	373.690	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.616	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	224.700	0.0000000	0.0000000	0.0000000	0.0000000	0.0009530
Iron	240.488	0.0000000	0.0000000	0.0000000	0.0000000	-0.0039600
Lead	220.353	0.0000000	0.0003170	0.0000000	0.0000000	0.0000000
Magnesium	279.079	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.610	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.604	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.490	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.090	0.0000000	0.0000000	0.0000000	0.0000000	-0.0003570
Silver	328.068	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.592	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.856	0.0000000	0.0000000	0.0000000	0.0000000	0.0054900
Vanadium	292.402	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	213.800	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

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Metals
- 11 -
ICP INTERELEMENT CORRECTION FACTORS

Client: Portal Partners Tri-Venture **SDG No.:** Q2198

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q2198 **SAS No.:** Q2198

Instrument ID: **Date:**

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave-Length (nm)	ICP Interelement Correction Factors For: Cr	Cu	K	Mn	Mo
Aluminum	396.100	0.0000000	0.0000000	0.0000590	0.0000000	0.0396900
Antimony	206.833	0.0122000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	193.759	-0.0029000	0.0000000	0.0000000	0.0000000	0.0004900
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	234.861	0.0000000	0.0000000	0.0000000	-0.0000710	-0.0003400
Cadmium	226.502	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	373.690	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000070	0.0002200	0.0000000
Cobalt	228.616	0.0000000	0.0000000	0.0000000	0.0000000	-0.0007860
Copper	224.700	0.0000000	0.0000000	0.0000000	0.0006510	0.0020500
Iron	240.488	0.0000000	0.0000000	0.0000730	0.0000000	-0.0015250
Lead	220.353	0.0000000	0.0000000	0.0000000	0.0001400	-0.0008600
Magnesium	279.079	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.610	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.604	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.490	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.090	0.0000000	0.0000000	0.0000000	0.0007460	0.0000000
Silver	328.068	0.0000000	0.0000000	0.0000000	0.0000000	-0.0000120
Sodium	589.592	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.856	0.0000000	0.0000000	0.0000000	0.0017400	-0.0100400
Vanadium	292.402	-0.0025100	0.0000000	0.0000000	0.0000000	-0.0072000
Zinc	213.800	0.0000000	0.0009010	0.0000000	0.0000000	0.0000000

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Metals
- 11 -
ICP INTERELEMENT CORRECTION FACTORS

Client: Portal Partners Tri-Venture **SDG No.:** Q2198

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q2198 **SAS No.:** Q2198

Instrument ID: **Date:**

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave-Length (nm)	ICP Interelement Correction Factors For: Na	Ni	Pb	Sb	Se
Aluminum	396.100	0.0000000	0.0000000	0.0012800	0.0000000	0.0000000
Antimony	206.833	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	193.759	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	234.861	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.502	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	373.690	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.616	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	224.700	0.0000000	-0.0047000	0.0036100	0.0000000	0.0000000
Iron	240.488	0.0000000	-0.0017000	0.0000000	0.0000000	0.0000000
Lead	220.353	0.0000000	0.0006580	0.0000000	0.0000000	0.0001290
Magnesium	279.079	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.610	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.604	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.490	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.090	0.0000000	0.0000000	0.0003330	0.0000000	0.0000000
Silver	328.068	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.592	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.856	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.402	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	213.800	0.0000000	0.0067600	0.0000000	0.0000000	0.0000000

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Metals
- 11 -
ICP INTERELEMENT CORRECTION FACTORS

Client: Portal Partners Tri-Venture **SDG No.:** Q2198

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q2198 **SAS No.:** Q2198

Instrument ID: **Date:**

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave-Length (nm)	ICP Interelement Correction Factors For: Sn	Ti	Tl	V	Zn
Aluminum	396.100	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.833	-0.0035600	-0.0007970	0.0000000	-0.0018900	0.0000000
Arsenic	193.759	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	234.861	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.502	0.0000000	0.0000630	0.0001280	0.0000000	0.0000000
Calcium	373.690	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0001110	0.0000000
Cobalt	228.616	0.0000000	0.0018800	0.0000000	0.0000000	0.0000000
Copper	224.700	0.0000000	0.0003840	0.0000000	0.0000000	0.0000000
Iron	240.488	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.353	0.0000000	-0.0003610	0.0000000	0.0000000	0.0000000
Magnesium	279.079	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.610	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.604	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.490	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.090	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.068	0.0000000	-0.0007420	0.0000000	0.0000000	0.0000000
Sodium	589.592	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.856	0.0000000	-0.0039700	0.0000000	-0.0115600	0.0000000
Vanadium	292.402	0.0000000	0.0005320	0.0000000	0.0000000	0.0000000
Zinc	213.800	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

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LAB CHRONICLE

OrderID:	Q2198	**OrderDate:**	6/3/2025 2:31:00 PM
Client:	Portal Partners Tri-Venture	**Project:**	Amtrak Sawtooth Bridges 2025
Contact:	Joseph Krupansky	**Location:**	N22,VOA Ref. #2 Soil,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2198-01	**B-202-SB02**	**SOIL**			**05/31/25**			**06/03/25**
			Mercury	7471B		06/04/25	06/04/25	
			Metals ICP-TAL	6010D		06/04/25	06/05/25	
Q2198-02	**B-202-SB02**	**TCLP**			**05/31/25**			**06/03/25**
			TCLP ICP Metals	6010D		06/05/25	06/06/25	
			TCLP Mercury	7470A		06/05/25	06/06/25	
Q2198-03	**B-207-SB02**	**SOIL**			**06/01/25**			**06/03/25**
			Mercury	7471B		06/04/25	06/04/25	
			Metals ICP-TAL	6010D		06/04/25	06/05/25	
Q2198-04	**B-207-SB02**	**TCLP**			**06/01/25**			**06/03/25**
			TCLP ICP Metals	6010D		06/05/25	06/06/25	
			TCLP Mercury	7470A		06/05/25	06/06/25	
Q2198-05	**B-202-GW01**	**Water**			**05/31/25**			**06/03/25**
			Metals ICP-TAL	6010D		06/04/25	06/04/25	
			Mercury	7470A		06/05/25	06/06/25	

METAL PREPARATION & ANALYICAL SUMMARY

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Metals
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SAMPLE PREPARATION SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q2198

Contract: PORT06 **Lab Code:** CHEM **Method:**

Case No.: Q2198 **SAS No.:** Q2198

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(mL)	Final Sample Volume (mL)	Percent Solids
Batch Number:	**PB168276**						
PB168276BL	PB168276BL	MB	WATER	06/04/2025	50.0	25.0	
PB168276BS	PB168276BS	LCS	WATER	06/04/2025	50.0	25.0	
Q2198-05	B-202-GW01	SAM	WATER	06/04/2025	50.0	25.0	
Q2198-05DUP	B-202-GW01DUP	DUP	WATER	06/04/2025	50.0	25.0	
Q2198-05MS	B-202-GW01MS	MS	WATER	06/04/2025	50.0	25.0	
Q2198-05MSD	B-202-GW01MSD	MSD	WATER	06/04/2025	50.0	25.0	

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Metals
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SAMPLE PREPARATION SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q2198

Contract: PORT06 **Lab Code:** CHEM **Method:**

Case No.: Q2198 **SAS No.:** Q2198

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(g)	Final Sample Volume (mL)	Percent Solids
Batch Number:	**PB168279**						
PB168279BL	PB168279BL	MB	SOLID	06/04/2025	2.00	100.0	100.00
PB168279BS	PB168279BS	LCS	SOLID	06/04/2025	2.00	100.0	100.00
Q2195-01DUP	OK-01-060325DUP	DUP	SOLID	06/04/2025	2.21	100.0	94.40
Q2195-01MS	OK-01-060325MS	MS	SOLID	06/04/2025	2.19	100.0	94.40
Q2195-01MSD	OK-01-060325MSD	MSD	SOLID	06/04/2025	2.29	100.0	94.40
Q2198-01	B-202-SB02	SAM	SOLID	06/04/2025	2.40	100.0	71.90
Q2198-03	B-207-SB02	SAM	SOLID	06/04/2025	2.22	100.0	52.10

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Metals
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SAMPLE PREPARATION SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q2198

Contract: PORT06 **Lab Code:** CHEM **Method:**

Case No.: Q2198 **SAS No.:** Q2198

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(g)	Final Sample Volume (mL)	Percent Solids
Batch Number:	**PB168290**						
PB168290BL	PB168290BL	MB	SOLID	06/04/2025	0.55	35.0	100.00
PB168290BS	PB168290BS	LCS	SOLID	06/04/2025	0.54	35.0	100.00
Q2195-01DUP	OK-01-060325DUP	DUP	SOLID	06/04/2025	0.53	35.0	94.40
Q2195-01MS	OK-01-060325MS	MS	SOLID	06/04/2025	0.55	35.0	94.40
Q2195-01MSD	OK-01-060325MSD	MSD	SOLID	06/04/2025	0.57	35.0	94.40
Q2198-01	B-202-SB02	SAM	SOLID	06/04/2025	0.50	35.0	71.90
Q2198-03	B-207-SB02	SAM	SOLID	06/04/2025	0.52	35.0	52.10

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Metals
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SAMPLE PREPARATION SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q2198

Contract: PORT06 **Lab Code:** CHEM **Method:**

Case No.: Q2198 **SAS No.:** Q2198

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(mL)	Final Sample Volume (mL)	Percent Solids
Batch Number:	**PB168317**						
PB168317BL	PB168317BL	MB	WATER	06/05/2025	30.0	30.0	
PB168317BS	PB168317BS	LCS	WATER	06/05/2025	30.0	30.0	
Q2198-05	B-202-GW01	SAM	WATER	06/05/2025	30.0	30.0	
Q2216-02DUP	3887DUP	DUP	WATER	06/05/2025	30.0	30.0	
Q2216-02MS	3887MS	MS	WATER	06/05/2025	30.0	30.0	
Q2216-02MSD	3887MSD	MSD	WATER	06/05/2025	30.0	30.0	

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Instrument ID: CV1

Daily Analysis Runlog For Sequence/QCBatch ID # LB136001

Review By	jaswal	Review On	6/6/2025 7:14:38 PM
Supervise By	MOHAN	Supervise On	6/6/2025 7:15:52 PM

STD. NAME	STD REF.#
ICAL Standard	MP85879,MP85880,MP85881,MP85882,MP85883,MP85884
ICV Standard	MP85885
CCV Standard	MP85887
ICSA Standard	
CRI Standard	MP85889
LCS Standard	
Chk Standard	MP8588666666,MP858888888,MP85890,MP85866

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	06/04/25 14:45		MOHAN	OK
2	S0.2	S0.2	CAL2	06/04/25 14:48		MOHAN	OK
3	S2.5	S2.5	CAL3	06/04/25 14:50		MOHAN	OK
4	S5	S5	CAL4	06/04/25 14:52		MOHAN	OK
5	S7.5	S7.5	CAL5	06/04/25 14:54		MOHAN	OK
6	S10	S10	CAL6	06/04/25 14:57		MOHAN	OK
7	ICV27	ICV27	ICV	06/04/25 15:04		MOHAN	OK
8	ICB27	ICB27	ICB	06/04/25 15:06		MOHAN	OK
9	CCV01	CCV01	CCV	06/04/25 15:09		MOHAN	OK
10	CCB01	CCB01	CCB	06/04/25 15:14		MOHAN	OK
11	CRA	CRA	CRDL	06/04/25 15:21		MOHAN	OK
12	HighStd	HighStd	HIGH STD	06/04/25 15:23		MOHAN	OK
13	ChkStd	ChkStd	SAM	06/04/25 15:28		MOHAN	OK
14	PB168290BL	PB168290BL	MB	06/04/25 15:33		MOHAN	OK
15	PB168290BS	PB168290BS	LCS	06/04/25 15:38		MOHAN	OK
16	Q2182-01	OR-03-06022025	SAM	06/04/25 15:40		MOHAN	OK
17	Q2194-01	COMP-12	SAM	06/04/25 15:43		MOHAN	OK
18	Q2194-03	COMP-13	SAM	06/04/25 15:45		MOHAN	OK

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Instrument ID: CV1

Daily Analysis Runlog For Sequence/QCBatch ID # LB136001

Review By	jaswal	Review On	6/6/2025 7:14:38 PM
Supervise By	MOHAN	Supervise On	6/6/2025 7:15:52 PM

STD. NAME	STD REF.#
ICAL Standard	MP85879,MP85880,MP85881,MP85882,MP85883,MP85884
ICV Standard	MP85885
CCV Standard	MP85887
ICSA Standard	
CRI Standard	MP85889
LCS Standard	
Chk Standard	MP8588666666,MP858888888,MP85890,MP85866

19	Q2195-01	OK-01-060325	SAM	06/04/25 15:47		MOHAN	OK
20	Q2195-01DUP	OK-01-060325DUP	DUP	06/04/25 15:50		MOHAN	OK
21	CCV02	CCV02	CCV	06/04/25 15:59		MOHAN	OK
22	CCB02	CCB02	CCB	06/04/25 16:01		MOHAN	OK
23	Q2195-01MS	OK-01-060325MS	MS	06/04/25 16:04		MOHAN	OK
24	Q2195-01MSD	OK-01-060325MSD	MSD	06/04/25 16:06		MOHAN	OK
25	Q2198-01	B-202-SB02	SAM	06/04/25 16:08		MOHAN	OK
26	Q2198-03	B-207-SB02	SAM	06/04/25 16:10		MOHAN	OK
27	Q2199-01	ETGI-343	SAM	06/04/25 16:13		MOHAN	OK
28	Q2199-03	VNJ-231	SAM	06/04/25 16:15		MOHAN	OK
29	Q2199-05	72-11978	SAM	06/04/25 16:17		MOHAN	OK
30	Q2195-01L	OK-01-060325L	SD	06/04/25 16:20		MOHAN	OK
31	Q2195-01A	OK-01-060325A	PS	06/04/25 16:25		MOHAN	OK
32	CCV03	CCV03	CCV	06/04/25 16:27		MOHAN	OK
33	CCB03	CCB03	CCB	06/04/25 16:29		MOHAN	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB136011

Review By	Janvi	Review On	6/5/2025 3:57:54 PM
Supervise By	jaswal	Supervise On	6/10/2025 4:55:25 PM

STD. NAME	STD REF.#
ICAL Standard	MP85867,MP85897,MP85871,MP85870,MP85869,MP85868
ICV Standard	MP85872
CCV Standard	MP85875
ICSA Standard	MP85873,MP85874
CRI Standard	MP85897
LCS Standard	
Chk Standard	MP85876,MP85877

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	06/04/25 14:18		Jaswal	OK
2	S1	S1	CAL2	06/04/25 14:23		Jaswal	OK
3	S2	S2	CAL3	06/04/25 14:27		Jaswal	OK
4	S3	S3	CAL4	06/04/25 14:31		Jaswal	OK
5	S4	S4	CAL5	06/04/25 14:35		Jaswal	OK
6	S5	S5	CAL6	06/04/25 14:39		Jaswal	OK
7	ICV01	ICV01	ICV	06/04/25 15:49		Jaswal	OK
8	LLICV01	LLICV01	LLICV	06/04/25 16:06		Jaswal	OK
9	ICB01	ICB01	ICB	06/04/25 16:10		Jaswal	OK
10	CRI01	CRI01	CRDL	06/04/25 16:15		Jaswal	OK
11	ICSA01	ICSA01	ICSA	06/04/25 16:26		Jaswal	OK
12	ICSAB01	ICSAB01	ICSAB	06/04/25 16:32		Jaswal	OK
13	ICSADL	ICSADL	ICSA	06/04/25 16:36		Jaswal	OK
14	ICSABDL	ICSABDL	ICSAB	06/04/25 16:40		Jaswal	OK
15	CCV01	CCV01	CCV	06/04/25 16:45		Jaswal	OK
16	CCB01	CCB01	CCB	06/04/25 16:52		Jaswal	OK
17	Q2160-05	TP05-MHH-WC	SAM	06/04/25 16:57		Jaswal	OK
18	Q2159-04	TP05-MHO-WC	SAM	06/04/25 17:01		Jaswal	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB136011

Review By	Janvi	Review On	6/5/2025 3:57:54 PM
Supervise By	jaswal	Supervise On	6/10/2025 4:55:25 PM

STD. NAME	STD REF.#
ICAL Standard	MP85867,MP85897,MP85871,MP85870,MP85869,MP85868
ICV Standard	MP85872
CCV Standard	MP85875
ICSA Standard	MP85873,MP85874
CRI Standard	MP85897
LCS Standard	
Chk Standard	MP85876,MP85877

19	Q2178-01	RT2929	SAM	06/04/25 17:05		Jaswal	OK
20	Q2182-01	OR-03-06022025	SAM	06/04/25 17:10		Jaswal	OK
21	Q2172-04	TP06-MHQ	SAM	06/04/25 17:14		Jaswal	OK
22	Q2178-02	RT2929	SAM	06/04/25 17:18		Jaswal	OK
23	Q2185-01	TP02-MHB-WC	SAM	06/04/25 17:23		Jaswal	OK
24	Q2185-05	TP01-MHA-WC	SAM	06/04/25 17:27		Jaswal	OK
25	Q2178-01DUP	RT2929DUP	DUP	06/04/25 17:31		Jaswal	OK
26	CCV02	CCV02	CCV	06/04/25 17:35		Jaswal	OK
27	CCB02	CCB02	CCB	06/04/25 17:39		Jaswal	OK
28	Q2178-01L	RT2929L	SD	06/04/25 17:48		Jaswal	OK
29	Q2178-01MS	RT2929MS	MS	06/04/25 17:53		Jaswal	OK
30	Q2178-01MSD	RT2929MSD	MSD	06/04/25 17:57		Jaswal	OK
31	Q2178-01A	RT2929A	PS	06/04/25 18:01		Jaswal	OK
32	PB168224TB	PB168224TB	MB	06/04/25 18:05		Jaswal	OK
33	Q2168-02	SAN-A1-A3	SAM	06/04/25 18:10		Jaswal	OK
34	Q2168-06	SAN-B1-B3	SAM	06/04/25 18:14		Jaswal	OK
35	Q2168-10	SAN-C1-C2	SAM	06/04/25 18:19		Jaswal	OK
36	Q2177-03	B-187-SB01	SAM	06/04/25 18:23		Jaswal	OK
37	CCV03	CCV03	CCV	06/04/25 18:37		Jaswal	OK
38	CCB03	CCB03	CCB	06/04/25 18:42		Jaswal	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB136011

Review By	Janvi	Review On	6/5/2025 3:57:54 PM
Supervise By	jaswal	Supervise On	6/10/2025 4:55:25 PM

STD. NAME	STD REF.#
ICAL Standard	MP85867,MP85897,MP85871,MP85870,MP85869,MP85868
ICV Standard	MP85872
CCV Standard	MP85875
ICSA Standard	MP85873,MP85874
CRI Standard	MP85897
LCS Standard	
Chk Standard	MP85876,MP85877

39	Q2177-05	B-187-SB02	SAM	06/04/25 18:47		Jaswal	OK
40	Q2177-07	B-202-SB01	SAM	06/04/25 18:51		Jaswal	OK
41	Q2185-04	TP02-MHB-WC	SAM	06/04/25 18:56		Jaswal	OK
42	Q2185-08	TP01-MHA-WC	SAM	06/04/25 19:00		Jaswal	OK
43	Q2185-08DUP	TP01-MHA-WC	DUP	06/04/25 19:04		Jaswal	OK
44	Q2185-08L	TP01-MHA-WC	SD	06/04/25 19:09		Jaswal	OK
45	Q2185-08MS	TP01-MHA-WCMS	MS	06/04/25 19:13		Jaswal	OK
46	Q2185-08MSD	TP01-MHA-WCMSD	MSD	06/04/25 19:17		Jaswal	OK
47	Q2185-08A	TP01-MHA-WC	PS	06/04/25 19:22		Jaswal	OK
48	CCV04	CCV04	CCV	06/04/25 19:26		Jaswal	OK
49	CCB04	CCB04	CCB	06/04/25 19:30		Jaswal	OK
50	PB168256BL	PB168256BL	MB	06/04/25 19:34		Jaswal	OK
51	PB168256BS	PB168256BS	LCS	06/04/25 19:39		Jaswal	OK
52	PB168261BL	PB168261BL	MB	06/04/25 19:43		Jaswal	OK
53	PB168261BS	PB168261BS	LCS	06/04/25 19:47		Jaswal	OK
54	PB168255BL	PB168255BL	MB	06/04/25 19:51		Jaswal	OK
55	PB168255BS	PB168255BS	LCS	06/04/25 19:55		Jaswal	OK
56	Q2169-01	303-PPR-1	SAM	06/04/25 19:59		Jaswal	OK
57	Q2169-03	303-PPR-2	SAM	06/04/25 20:03		Jaswal	OK
58	Q2175-06DL	EGR-LIQUIDDL	SAM	06/04/25 20:08	Straight 5x for all elements	Jaswal	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB136011

Review By	Janvi	Review On	6/5/2025 3:57:54 PM
Supervise By	jaswal	Supervise On	6/10/2025 4:55:25 PM

STD. NAME	STD REF.#
ICAL Standard	MP85867,MP85897,MP85871,MP85870,MP85869,MP85868
ICV Standard	MP85872
CCV Standard	MP85875
ICSA Standard	MP85873,MP85874
CRI Standard	MP85897
LCS Standard	
Chk Standard	MP85876,MP85877

59	CCV05	CCV05	CCV	06/04/25 20:12		Jaswal	OK
60	CCB05	CCB05	CCB	06/04/25 20:16		Jaswal	OK
61	Q2177-08	EB05312025	SAM	06/04/25 20:20		Jaswal	OK
62	Q2169-03DUP	303-PPR-2DUP	DUP	06/04/25 20:25		Jaswal	OK
63	Q2169-03L	303-PPR-2L	SD	06/04/25 20:29		Jaswal	OK
64	Q2169-03MS	303-PPR-2MS	MS	06/04/25 20:33		Jaswal	OK
65	Q2169-03MSD	303-PPR-2MSD	MSD	06/04/25 20:37		Jaswal	OK
66	Q2169-03A	303-PPR-2A	PS	06/04/25 20:42		Jaswal	OK
67	PB168276BL	PB168276BL	MB	06/04/25 20:46		Jaswal	OK
68	PB168276BS	PB168276BS	LCS	06/04/25 20:50		Jaswal	OK
69	Q2175-09DL	52725DL	SAM	06/04/25 20:54	Straight 5x for all elements	Jaswal	OK
70	CCV06	CCV06	CCV	06/04/25 20:58		Jaswal	OK
71	CCB06	CCB06	CCB	06/04/25 21:02		Jaswal	OK
72	Q2198-05DL	B-202-GW01DL	SAM	06/04/25 21:07	Straight 5x for all elements	Jaswal	OK
73	Q2198-05DUPDL	B-202-GW01DUPDL	DUP	06/04/25 21:11	Straight 5x for all elements	Jaswal	OK
74	Q2198-05LDL	B-202-GW01LDL	SD	06/04/25 21:15	Straight 25x for all elements	Jaswal	OK
75	Q2198-05MSDL	B-202-GW01MSDL	MS	06/04/25 21:20	Straight 5x for all elements	Jaswal	OK
76	Q2198-05MSDDL	B-202-GW01MSDDL	MSD	06/04/25 21:24	Straight 5x for all elements	Jaswal	OK
77	Q2198-05ADL	B-202-GW01ADL	PS	06/04/25 21:28	Straight 5x for all elements	Jaswal	OK

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Daily Analysis Runlog For Sequence/QCBatch ID # LB136011

Review By	Janvi	Review On	6/5/2025 3:57:54 PM
Supervise By	jaswal	Supervise On	6/10/2025 4:55:25 PM

STD. NAME	STD REF.#
ICAL Standard	MP85867,MP85897,MP85871,MP85870,MP85869,MP85868
ICV Standard	MP85872
CCV Standard	MP85875
ICSA Standard	MP85873,MP85874
CRI Standard	MP85897
LCS Standard	
Chk Standard	MP85876,MP85877

78	Q2172-01	TP06-MHQ	SAM	06/04/25 21:32	CCV fail for Fe,K,Na	Jaswal	Not Ok
79	Q2172-01DUP	TP06-MHQDUP	DUP	06/04/25 21:37	CCV fail for Fe,K,Na	Jaswal	Not Ok
80	CCV07	CCV07	CCV	06/04/25 21:41		Jaswal	OK
81	CCB07	CCB07	CCB	06/04/25 21:45		Jaswal	OK
82	Q2172-01L	TP06-MHQL	SD	06/04/25 21:49	CCV fail for Fe,K,Na	Jaswal	Not Ok
83	Q2172-01MS	TP06-MHQMS	MS	06/04/25 21:54	CCV fail for Fe,K,Na	Jaswal	Not Ok
84	Q2172-01MSD	TP06-MHQMSD	MSD	06/04/25 21:57	CCV fail for Fe,K,Na	Jaswal	Not Ok
85	Q2172-01A	TP06-MHQA	PS	06/04/25 22:01	CCV fail for Fe,K,Na	Jaswal	Not Ok
86	CCV08	CCV08	CCV	06/04/25 22:06	CCV fail for Fe,K,Na	Jaswal	OK
87	CCB08	CCB08	CCB	06/04/25 22:10		Jaswal	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB136035

Review By	Janvi	Review On	6/6/2025 2:54:51 PM
Supervise By	MOHAN	Supervise On	6/6/2025 7:09:42 PM

STD. NAME	STD REF.#
ICAL Standard	MP85867,MP85897,MP85871,MP85870,MP85869,MP85868
ICV Standard	MP85872
CCV Standard	MP85875
ICSA Standard	MP85873,MP85874
CRI Standard	MP85897
LCS Standard	
Chk Standard	MP85876,MP85877

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	06/05/25 15:11		Jaswal	OK
2	S1	S1	CAL2	06/05/25 15:16		Jaswal	OK
3	S2	S2	CAL3	06/05/25 15:20		Jaswal	OK
4	S3	S3	CAL4	06/05/25 15:24		Jaswal	OK
5	S4	S4	CAL5	06/05/25 15:28		Jaswal	OK
6	S5	S5	CAL6	06/05/25 15:32		Jaswal	OK
7	ICV01	ICV01	ICV	06/05/25 15:55	ICV fail for Ba,Be,Tl (200.7) (95-105)	Jaswal	OK
8	LLICV01	LLICV01	LLICV	06/05/25 16:09		Jaswal	OK
9	ICB01	ICB01	ICB	06/05/25 16:14		Jaswal	OK
10	CRI01	CRI01	CRDL	06/05/25 16:19		Jaswal	OK
11	ICSA01	ICSA01	ICSA	06/05/25 16:23		Jaswal	OK
12	ICSAB01	ICSAB01	ICSAB	06/05/25 16:32		Jaswal	OK
13	ICSADL	ICSADL	ICSA	06/05/25 16:40		Jaswal	OK
14	ICSABDL	ICSABDL	ICSAB	06/05/25 16:45		Jaswal	OK
15	CCV01	CCV01	CCV	06/05/25 16:50		Jaswal	OK
16	CCB01	CCB01	CCB	06/05/25 16:54		Jaswal	OK
17	Q2205-01	001-WILLETS-PT-BL	SAM	06/05/25 16:59		Jaswal	OK
18	Q2205-02	002-35TH-AVE(MAY)	SAM	06/05/25 17:03		Jaswal	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB136035

Review By	Janvi	Review On	6/6/2025 2:54:51 PM
Supervise By	MOHAN	Supervise On	6/6/2025 7:09:42 PM

STD. NAME	STD REF.#
ICAL Standard	MP85867,MP85897,MP85871,MP85870,MP85869,MP85868
ICV Standard	MP85872
CCV Standard	MP85875
ICSA Standard	MP85873,MP85874
CRI Standard	MP85897
LCS Standard	
Chk Standard	MP85876,MP85877

19	Q2172-01	TP06-MHQ	SAM	06/05/25 17:08		Jaswal	OK
20	Q2172-01DUP	TP06-MHQDUP	DUP	06/05/25 17:12		Jaswal	OK
21	Q2172-01L	TP06-MHQL	SD	06/05/25 17:16		Jaswal	OK
22	Q2172-01A	TP06-MHQA	PS	06/05/25 17:29		Jaswal	OK
23	Q2203-01	001-WILLETS-PT-BL\	SAM	06/05/25 17:33		Jaswal	OK
24	Q2172-01MS	TP06-MHQMS	MS	06/05/25 17:37		Jaswal	OK
25	Q2172-01MSD	TP06-MHQMSD	MSD	06/05/25 17:41		Jaswal	OK
26	CCV02	CCV02	CCV	06/05/25 17:46		Jaswal	OK
27	CCB02	CCB02	CCB	06/05/25 17:50		Jaswal	OK
28	Q2203-04	002-35TH-AVE(JUNE	SAM	06/05/25 17:54		Jaswal	OK
29	Q2199-01	ETGI-343	SAM	06/05/25 17:59		Jaswal	OK
30	Q2199-03	VNJ-231	SAM	06/05/25 18:03		Jaswal	OK
31	Q2199-05	72-11978	SAM	06/05/25 18:07		Jaswal	OK
32	Q2148-02	COMP	SAM	06/05/25 19:05		Jaswal	OK
33	Q2148-02DUP	COMPDUP	DUP	06/05/25 19:09		Jaswal	OK
34	Q2148-02L	COMPL	SD	06/05/25 19:14		Jaswal	OK
35	Q2148-02MS	COMPMS	MS	06/05/25 19:18		Jaswal	OK
36	Q2148-02MSD	COMPMSD	MSD	06/05/25 19:22		Jaswal	OK
37	CCV03	CCV03	CCV	06/05/25 19:43		Jaswal	OK
38	CCB03	CCB03	CCB	06/05/25 19:47		Jaswal	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB136035

Review By	Janvi	Review On	6/6/2025 2:54:51 PM
Supervise By	MOHAN	Supervise On	6/6/2025 7:09:42 PM

STD. NAME	STD REF.#
ICAL Standard	MP85867,MP85897,MP85871,MP85870,MP85869,MP85868
ICV Standard	MP85872
CCV Standard	MP85875
ICSA Standard	MP85873,MP85874
CRI Standard	MP85897
LCS Standard	
Chk Standard	MP85876,MP85877

39	Q2148-02A	COMPA	PS	06/05/25 19:52		Jaswal	OK
40	Q2194-01	COMP-12	SAM	06/05/25 19:56		Jaswal	OK
41	Q2194-03	COMP-13	SAM	06/05/25 20:00		Jaswal	OK
42	Q2195-01	OK-01-060325	SAM	06/05/25 20:04		Jaswal	OK
43	Q2195-01DUP	OK-01-060325DUP	DUP	06/05/25 20:08		Jaswal	OK
44	Q2195-01L	OK-01-060325L	SD	06/05/25 20:12		Jaswal	OK
45	Q2195-01MS	OK-01-060325MS	MS	06/05/25 20:16		Jaswal	OK
46	Q2195-01MSD	OK-01-060325MSD	MSD	06/05/25 20:20		Jaswal	OK
47	Q2195-01A	OK-01-060325A	PS	06/05/25 20:24		Jaswal	OK
48	CCV04	CCV04	CCV	06/05/25 20:28		Jaswal	OK
49	CCB04	CCB04	CCB	06/05/25 20:32		Jaswal	OK
50	Q2198-01	B-202-SB02	SAM	06/05/25 20:37		Jaswal	OK
51	Q2198-03	B-207-SB02	SAM	06/05/25 20:41		Jaswal	OK
52	PB168279BL	PB168279BL	MB	06/05/25 20:45	Not Use	Jaswal	Not Ok
53	PB168279BS	PB168279BS	LCS	06/05/25 20:49	Not Use	Jaswal	Not Ok
54	PB168291BL	PB168291BL	MB	06/05/25 20:53	Not Use	Jaswal	Not Ok
55	PB168291BS	PB168291BS	LCS	06/05/25 20:58	Not Use	Jaswal	Not Ok
56	Q2214-01	RBR251425	SAM	06/05/25 21:02		Jaswal	OK
57	Q2219-01	72-11995	SAM	06/05/25 21:06		Jaswal	OK
58	Q2224-01	EO-01-06042025	SAM	06/05/25 21:10		Jaswal	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB136035

Review By	Janvi	Review On	6/6/2025 2:54:51 PM
Supervise By	MOHAN	Supervise On	6/6/2025 7:09:42 PM

STD. NAME	STD REF.#
ICAL Standard	MP85867,MP85897,MP85871,MP85870,MP85869,MP85868
ICV Standard	MP85872
CCV Standard	MP85875
ICSA Standard	MP85873,MP85874
CRI Standard	MP85897
LCS Standard	
Chk Standard	MP85876,MP85877

59	CCV05	CCV05	CCV	06/05/25 23:51		Jaswal	OK
60	CCB05	CCB05	CCB	06/05/25 23:56		Jaswal	OK

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Instrument ID: CV1

Daily Analysis Runlog For Sequence/QCBatch ID # LB136036

Review By	MOHAN	Review On	6/6/2025 7:12:22 PM
Supervise By	jaswal	Supervise On	6/6/2025 7:13:44 PM

STD. NAME	STD REF.#
ICAL Standard	MP85899,MP8590,MP85901,MP85902,MP85903,MP85904
ICV Standard	MP85905
CCV Standard	MP85907
ICSA Standard	
CRI Standard	MP85909
LCS Standard	
Chk Standard	MP85906,MP85908,MP8591410,MP859

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	06/06/25 09:48		MOHAN	OK
2	S0.2	S0.2	CAL2	06/06/25 09:50		MOHAN	OK
3	S2.5	S2.5	CAL3	06/06/25 09:53		MOHAN	OK
4	S5	S5	CAL4	06/06/25 09:55		MOHAN	OK
5	S7.5	S7.5	CAL5	06/06/25 09:57		MOHAN	OK
6	S10	S10	CAL6	06/06/25 10:00		MOHAN	OK
7	ICV29	ICV29	ICV	06/06/25 10:03		MOHAN	OK
8	ICB29	ICB29	ICB	06/06/25 10:05		MOHAN	OK
9	CCV08	CCV08	CCV	06/06/25 10:07		MOHAN	OK
10	CCB08	CCB08	CCB	06/06/25 10:10		MOHAN	OK
11	CRA	CRA	CRDL	06/06/25 10:12		MOHAN	OK
12	HighStd	HighStd	HIGH STD	06/06/25 10:14		MOHAN	OK
13	ChkStd	ChkStd	SAM	06/06/25 10:16		MOHAN	OK
14	PB168316BL	PB168316BL	MB	06/06/25 10:19		MOHAN	OK
15	PB168316BS	PB168316BS	LCS	06/06/25 10:24		MOHAN	OK
16	Q2192-01	SB-1	SAM	06/06/25 10:26		MOHAN	OK
17	Q2194-02	COMP-12	SAM	06/06/25 10:28		MOHAN	OK
18	Q2194-04	COMP-13	SAM	06/06/25 10:31		MOHAN	OK

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Instrument ID: CV1

Daily Analysis Runlog For Sequence/QCBatch ID # LB136036

Review By	MOHAN	Review On	6/6/2025 7:12:22 PM
Supervise By	jaswal	Supervise On	6/6/2025 7:13:44 PM

STD. NAME	STD REF.#
ICAL Standard	MP85899,MP8590,MP85901,MP85902,MP85903,MP85904
ICV Standard	MP85905
CCV Standard	MP85907
ICSA Standard	
CRI Standard	MP85909
LCS Standard	
Chk Standard	MP85906,MP85908,MP8591410,MP859

19	Q2198-02	B-202-SB02	SAM	06/06/25 10:33		MOHAN	OK
20	Q2198-04	B-207-SB02	SAM	06/06/25 10:35		MOHAN	OK
21	CCV09	CCV09	CCV	06/06/25 10:37		MOHAN	OK
22	CCB09	CCB09	CCB	06/06/25 10:40		MOHAN	OK
23	Q2206-04	TP-1	SAM	06/06/25 10:42		MOHAN	OK
24	Q2207-09	BU-703-COMP-01	SAM	06/06/25 10:44		MOHAN	OK
25	Q2207-18	BU-703-COMP-02	SAM	06/06/25 10:46		MOHAN	OK
26	Q2207-27	BU-703-COMP-03	SAM	06/06/25 10:49		MOHAN	OK
27	Q2207-36	BU-703-COMP-04	SAM	06/06/25 10:51		MOHAN	OK
28	Q2207-45	BU-703-COMP-05	SAM	06/06/25 10:53		MOHAN	OK
29	Q2208-09	BU-703-COMP-06	SAM	06/06/25 10:55		MOHAN	OK
30	Q2208-18	BU-703-COMP-07	SAM	06/06/25 10:58		MOHAN	OK
31	Q2208-27	BU-703-COMP-08	SAM	06/06/25 11:00		MOHAN	OK
32	Q2208-36	BU-703-COMP-09	SAM	06/06/25 11:02		MOHAN	OK
33	CCV10	CCV10	CCV	06/06/25 11:04		MOHAN	OK
34	CCB10	CCB10	CCB	06/06/25 11:07		MOHAN	OK
35	Q2208-36DUP	BU-703-COMP-09DU	DUP	06/06/25 11:09		MOHAN	OK
36	Q2208-36MS	BU-703-COMP-09MS	MS	06/06/25 11:11		MOHAN	OK
37	Q2208-36MSD	BU-703-COMP-09MS	MSD	06/06/25 11:14		MOHAN	OK
38	PB168317BL	PB168317BL	MB	06/06/25 11:16		MOHAN	OK

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Instrument ID: CV1

Daily Analysis Runlog For Sequence/QCBatch ID # LB136036

Review By	MOHAN	Review On	6/6/2025 7:12:22 PM
Supervise By	jaswal	Supervise On	6/6/2025 7:13:44 PM

STD. NAME	STD REF.#
ICAL Standard	MP85899,MP8590,MP85901,MP85902,MP85903,MP85904
ICV Standard	MP85905
CCV Standard	MP85907
ICSA Standard	
CRI Standard	MP85909
LCS Standard	
Chk Standard	MP85906,MP85908,MP8591410,MP859

39	PB168317BS	PB168317BS	LCS	06/06/25 11:21		MOHAN	OK
40	Q2175-09DL	52725DL	SAM	06/06/25 11:23	10X for Straight dilution	MOHAN	OK
41	Q2198-05	B-202-GW01	SAM	06/06/25 11:25		MOHAN	OK
42	Q2210-01	TW1	SAM	06/06/25 11:28		MOHAN	OK
43	Q2216-02	3887	SAM	06/06/25 11:30		MOHAN	OK
44	Q2216-02DUP	3887DUP	DUP	06/06/25 11:32		MOHAN	OK
45	CCV11	CCV11	CCV	06/06/25 11:41		MOHAN	OK
46	CCB11	CCB11	CCB	06/06/25 11:43		MOHAN	OK
47	Q2216-02MS	3887MS	MS	06/06/25 11:48		MOHAN	OK
48	Q2216-02MSD	3887MSD	MSD	06/06/25 11:50		MOHAN	OK
49	Q2216-03	3888	SAM	06/06/25 11:52		MOHAN	OK
50	Q2216-04	3864	SAM	06/06/25 11:55		MOHAN	OK
51	Q2216-05	3865	SAM	06/06/25 11:57		MOHAN	OK
52	Q2216-06	3851	SAM	06/06/25 11:59		MOHAN	OK
53	Q2218-03	3309	SAM	06/06/25 12:01		MOHAN	OK
54	Q2221-02	34900	SAM	06/06/25 12:04		MOHAN	OK
55	CCV12	CCV12	CCV	06/06/25 12:06		MOHAN	OK
56	CCB12	CCB12	CCB	06/06/25 12:08		MOHAN	OK
57	PB168271TB	PB168271TB	MB	06/06/25 12:11		MOHAN	OK
58	Q2208-36L	BU-703-COMP-09L	SD	06/06/25 12:13		MOHAN	OK

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Instrument ID: CV1

Daily Analysis Runlog For Sequence/QCBatch ID # LB136036

Review By	MOHAN	Review On	6/6/2025 7:12:22 PM
Supervise By	jaswal	Supervise On	6/6/2025 7:13:44 PM

STD. NAME	STD REF.#
ICAL Standard	MP85899,MP8590,MP85901,MP85902,MP85903,MP85904
ICV Standard	MP85905
CCV Standard	MP85907
ICSA Standard	
CRI Standard	MP85909
LCS Standard	
Chk Standard	MP85906,MP85908,MP8591410,MP859

59	Q2208-36A	BU-703-COMP-09A	PS	06/06/25 12:20		MOHAN	OK
60	Q2216-02L	3887L	SD	06/06/25 12:22		MOHAN	OK
61	Q2216-02A	3887A	PS	06/06/25 12:24		MOHAN	OK
62	CCV13	CCV13	CCV	06/06/25 12:33		MOHAN	OK
63	CCB13	CCB13	CCB	06/06/25 12:35		MOHAN	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB136052

Review By	Janvi	Review On	6/9/2025 3:49:01 PM
Supervise By	jaswal	Supervise On	6/10/2025 4:57:27 PM

STD. NAME	STD REF.#
ICAL Standard	MP85867,MP85897,MP85871,MP85870,MP85869,MP85868
ICV Standard	MP85872
CCV Standard	MP85875
ICSA Standard	MP85873,MP85874
CRI Standard	MP85897
LCS Standard	
Chk Standard	MP85876,MP85877

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	06/06/25 12:50		Jaswal	OK
2	S1	S1	CAL2	06/06/25 12:54		Jaswal	OK
3	S2	S2	CAL3	06/06/25 12:59		Jaswal	OK
4	S3	S3	CAL4	06/06/25 13:03		Jaswal	OK
5	S4	S4	CAL5	06/06/25 13:07		Jaswal	OK
6	S5	S5	CAL6	06/06/25 13:12		Jaswal	OK
7	ICV01	ICV01	ICV	06/06/25 13:16		Jaswal	OK
8	LLICV01	LLICV01	LLICV	06/06/25 13:29		Jaswal	OK
9	ICB01	ICB01	ICB	06/06/25 13:33		Jaswal	OK
10	CRI01	CRI01	CRDL	06/06/25 13:37		Jaswal	OK
11	ICSA01	ICSA01	ICSA	06/06/25 13:42		Jaswal	OK
12	ICSAB01	ICSAB01	ICSAB	06/06/25 13:46		Jaswal	OK
13	ICSADL	ICSADL	ICSA	06/06/25 13:50		Jaswal	OK
14	ICSABDL	ICSABDL	ICSAB	06/06/25 13:54		Jaswal	OK
15	CCV01	CCV01	CCV	06/06/25 14:05		Jaswal	OK
16	CCB01	CCB01	CCB	06/06/25 14:09		Jaswal	OK
17	PB168279BL	PB168279BL	MB	06/06/25 14:13		Jaswal	OK
18	PB168279BS	PB168279BS	LCS	06/06/25 14:18		Jaswal	OK

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB136052

Review By	Janvi	Review On	6/9/2025 3:49:01 PM
Supervise By	jaswal	Supervise On	6/10/2025 4:57:27 PM

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ICAL Standard	MP85867,MP85897,MP85871,MP85870,MP85869,MP85868
ICV Standard	MP85872
CCV Standard	MP85875
ICSA Standard	MP85873,MP85874
CRI Standard	MP85897
LCS Standard	
Chk Standard	MP85876,MP85877

19	PB168284BL	PB168284BL	MB	06/06/25 14:22		Jaswal	OK
20	PB168284BS	PB168284BS	LCS	06/06/25 14:26		Jaswal	OK
21	PB168302BL	PB168302BL	MB	06/06/25 14:30		Jaswal	OK
22	PB168302BS	PB168302BS	LCS	06/06/25 14:35		Jaswal	OK
23	PB168307BL	PB168307BL	MB	06/06/25 14:39		Jaswal	OK
24	PB168307BS	PB168307BS	LCS	06/06/25 14:43		Jaswal	OK
25	Q2237-02	TW-WTS-10	SAM	06/06/25 14:47		Jaswal	OK
26	PB168291BL	PB168291BL	MB	06/06/25 14:52		Jaswal	OK
27	CCV02	CCV02	CCV	06/06/25 14:56		Jaswal	OK
28	CCB02	CCB02	CCB	06/06/25 15:00		Jaswal	OK
29	PB168291BS	PB168291BS	LCS	06/06/25 15:06		Jaswal	OK
30	PB168271TB	PB168271TB	MB	06/06/25 15:10		Jaswal	OK
31	Q2192-01	SB-1	SAM	06/06/25 15:15		Jaswal	OK
32	Q2194-02	COMP-12	SAM	06/06/25 15:19		Jaswal	OK
33	Q2194-04	COMP-13	SAM	06/06/25 15:24		Jaswal	OK
34	Q2198-02	B-202-SB02	SAM	06/06/25 15:28		Jaswal	OK
35	Q2198-04	B-207-SB02	SAM	06/06/25 15:33		Jaswal	OK
36	Q2206-04	TP-1	SAM	06/06/25 15:37		Jaswal	OK
37	Q2207-09	BU-703-COMP-01	SAM	06/06/25 15:41		Jaswal	OK

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ICV Standard	MP85872
CCV Standard	MP85875
ICSA Standard	MP85873,MP85874
CRI Standard	MP85897
LCS Standard	
Chk Standard	MP85876,MP85877

38	Q2207-18	BU-703-COMP-02	SAM	06/06/25 15:46		Jaswal	OK
39	CCV03	CCV03	CCV	06/06/25 15:50		Jaswal	OK
40	CCB03	CCB03	CCB	06/06/25 15:57		Jaswal	OK
41	Q2207-27	BU-703-COMP-03	SAM	06/06/25 16:01		Jaswal	OK
42	Q2207-36	BU-703-COMP-04	SAM	06/06/25 16:10		Jaswal	OK
43	Q2207-45	BU-703-COMP-05	SAM	06/06/25 16:15		Jaswal	OK
44	Q2208-09	BU-703-COMP-06	SAM	06/06/25 16:19		Jaswal	OK
45	Q2208-18	BU-703-COMP-07	SAM	06/06/25 16:24		Jaswal	OK
46	Q2208-27	BU-703-COMP-08	SAM	06/06/25 16:28		Jaswal	OK
47	Q2208-36	BU-703-COMP-09	SAM	06/06/25 16:33	Not Use	Jaswal	Not Ok
48	Q2206-01	TP-1	SAM	06/06/25 16:37		Jaswal	OK
49	Q2207-01	BU-703-COMP-01	SAM	06/06/25 16:41		Jaswal	OK
50	CCV04	CCV04	CCV	06/06/25 16:46		Jaswal	OK
51	CCB04	CCB04	CCB	06/06/25 16:51		Jaswal	OK
52	Q2207-10	BU-703-COMP-02	SAM	06/06/25 16:55		Jaswal	OK
53	Q2207-19	BU-703-COMP-03	SAM	06/06/25 16:59		Jaswal	OK
54	Q2207-28	BU-703-COMP-04	SAM	06/06/25 17:03		Jaswal	OK
55	Q2207-37	BU-703-COMP-05	SAM	06/06/25 17:11		Jaswal	OK

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ICV Standard	MP85872
CCV Standard	MP85875
ICSA Standard	MP85873,MP85874
CRI Standard	MP85897
LCS Standard	
Chk Standard	MP85876,MP85877

56	Q2208-01	BU-703-COMP-06	SAM	06/06/25 17:15		Jaswal	OK
57	Q2208-10	BU-703-COMP-07	SAM	06/06/25 17:19		Jaswal	OK
58	Q2208-19	BU-703-COMP-08	SAM	06/06/25 17:23		Jaswal	OK
59	Q2208-28	BU-703-COMP-09	SAM	06/06/25 17:28		Jaswal	OK
60	Q2218-01	72-11934	SAM	06/06/25 17:32		Jaswal	OK
61	Q2218-03DL	3309DL	SAM	06/06/25 17:36	Test not on log in page	Jaswal	Not Ok
62	CCV05	CCV05	CCV	06/06/25 17:40		Jaswal	OK
63	CCB05	CCB05	CCB	06/06/25 17:46		Jaswal	OK
64	Q2223-01	HR-01-06042025	SAM	06/06/25 17:51	CCV06 Fail For Many parameters	Jaswal	Not Ok
65	Q2223-03	HR-04-06042025	SAM	06/06/25 17:55	CCV06 Fail For Many parameters	Jaswal	Not Ok
66	Q2225-01	SU-03-06042025	SAM	06/06/25 17:59	CCV06 Fail For Many parameters	Jaswal	Not Ok
67	Q2226-01	TP06-MHI-WC	SAM	06/06/25 18:03	CCV06 Fail For Many parameters	Jaswal	Not Ok
68	Q2227-01	TP07-MHH-WC	SAM	06/06/25 18:07	CCV06 Fail For Many parameters	Jaswal	Not Ok
69	Q2228-01	TP08-MHI-WC	SAM	06/06/25 19:31	CCV06 Fail For Many parameters	Jaswal	Not Ok
70	Q2208-36DUP	BU-703-COMP-09DU	DUP	06/06/25 22:54	CCV06 Fail For Many parameters	Jaswal	Not Ok
71	Q2208-36L	BU-703-COMP-09L	SD	06/07/25 01:22	CCV06 Fail For Many parameters	Jaswal	Not Ok
72	Q2208-36MS	BU-703-COMP-09MS	MS	06/07/25 02:54	CCV06 Fail For Many parameters	Jaswal	Not Ok

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Supervise By	jaswal	Supervise On	6/10/2025 4:57:27 PM

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ICAL Standard	MP85867,MP85897,MP85871,MP85870,MP85869,MP85868
ICV Standard	MP85872
CCV Standard	MP85875
ICSA Standard	MP85873,MP85874
CRI Standard	MP85897
LCS Standard	
Chk Standard	MP85876,MP85877

73	CCV06	CCV06	CCV	06/07/25 03:03		Jaswal	OK
74	CCB06	CCB06	CCB	06/07/25 03:07		Jaswal	OK
75	Q2208-36MSD	BU-703-COMP-09MS	MSD	06/07/25 03:11	CCV06,07 Fail For Many parameters	Jaswal	Not Ok
76	Q2208-36A	BU-703-COMP-09A	PS	06/07/25 03:15	CCV06,07 Fail For Many parameters	Jaswal	Not Ok
77	Q2226-01DUP	TP06-MHI-WCDUP	DUP	06/07/25 03:20	CCV06,07 Fail For Many parameters	Jaswal	Not Ok
78	Q2226-01L	TP06-MHI-WCL	SD	06/07/25 03:24	CCV06,07 Fail For Many parameters	Jaswal	Not Ok
79	Q2226-01MS	TP06-MHI-WCMS	MS	06/07/25 03:28	CCV06,07 Fail For Many parameters	Jaswal	Not Ok
80	Q2226-01MSD	TP06-MHI-WCMSD	MSD	06/07/25 03:32	CCV06,07 Fail For Many parameters	Jaswal	Not Ok
81	Q2226-01A	TP06-MHI-WCA	PS	06/07/25 03:36	CCV06,07 Fail For Many parameters	Jaswal	Not Ok
82	CCV07	CCV07	CCV	06/07/25 03:40		Jaswal	OK
83	CCB07	CCB07	CCB	06/07/25 03:44		Jaswal	OK

Alliance TECHNICAL GROUP

Water Metals Preparation Sheet

PB168276

SOP ID : M3010A-Digestion-17

SDG No : N/A

Matrix : WATER

Pippete ID: ICP A

Balance ID : N/A

Filter paper ID : N/A

pH Strip ID : M6069

Hood ID : #3

Block ID: 1. HOT BLOCK #1 2. N/A

Start Digest Date: 06/04/2025 **Time :** 10:14 **Temp :** 96 °C

End Digest Date: 06/04/2025 **Time :** 13:20 **Temp :** 96 °C

Digestion tube ID: M5595

Block thermometer ID: MET-DIG. #1

Dig Technician Signature: GJS.

Supervisor Signature: GSP

Temp : 1. 96°C 2. N/A

Standared Name	MLS USED	STD REF. # FROM LOG
LFS-1	0.25	M6007
LFS-2	0.25	M6016
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
Conc. HNO3	3.00	M6158
1:1 HCL	5.00	MP85156
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

HOT BLOCK#1CELL#50 96 C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
06/04/25 14:20	SKS. met dig	GSP / Met Lab
	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

Water Metals Preparation Sheet

PB168276

Lab Sample ID	Client Sample ID	pH	Initial Vol (ml)	Final Vol (ml)	Color Before	Color After	Clarity Before	Clarity After	Comment	Prep Pos
PB168276BL	PBW276	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	1
PB168276BS	LCS276	<2	50	25	Colorless	Colorless	Clear	Clear	M6007,M6016	2
Q2175-09	52725	<2	50	25	Black	ligh Btrown	Cloudy	Clear	N/A	3
Q2198-05	B-202-GW01	<2	50	25	Brown	light Brown	Cloudy	Clear	N/A	4
Q2198-05MS	B-202-GW01MS	<2	50	25	Brown	ligh Btrown	Cloudy	Clear	M6007,M6016	6
Q2198-05MSD	B-202-GW01MSD	<2	50	25	Brown	ligh Btrown	Cloudy	Clear	M6007,M6016	7
Q2198-05DUP	B-202-GW01DUP	<2	50	25	Brown	ligh Btrown	Cloudy	Clear	N/A	5

Alliance TECHNICAL GROUP

Soil/Sludge Metals Preparation Sheet

PB168279

SOP ID : M3050B-Digestion-20

SDG No : N/A

Matrix : SOIL

Pippete ID: ICP A

Balance ID : M SC-2

Filter paper ID : N/A

pH Strip ID : N/A

Hood ID : #3

Block ID: 1. HOT BLOCK #3 2. N/A

Start Digest Date: 06/04/2025 **Time :** 10:20 **Temp :** 96 °C

End Digest Date: 06/04/2025 **Time :** 12:25 **Temp :** 96 °C

Digestion tube ID: M6054

Block thermometer ID: MET-DIG. #3

Dig Technician Signature: SLP

Supervisor Signature: JSP

Temp : 1. 96°C 2. N/A

Standared Name	MLS USED	STD REF. # FROM LOG
LFS-1	1.00	M6007
LFS-2	1.00	M6016
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
CONC: HNO3	5.00	M6158
1:1 HNO3	10.00	MP84041
30% H2O2	3.00	M6162
Conc. HCL	10.00	M6151
PTFE Boiling Stones	N/A	M5581
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

HOT BLOCK#3 CELL#35 96 C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
06/04/25 13:25	SLP met.dig	JSP Metlab
	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

Soil/Sludge Metals Preparation Sheet

PB168279

Lab Sample ID	Client Sample ID	pH	Initial Weight (g)	Final Vol (ml)	Color Before	Color After	Texture	Artifact	Comment	Prep Pos
PB168279BL	PBS279	N/A	2.00	100	Colorless	Colorless	Fine	N/A	N/A	1
PB168279BS	LCS279	N/A	2.00	100	Colorless	Colorless	Fine	N/A	M6007,M6016	2
Q2194-01	COMP-12	N/A	2.41	100	Brown	Yellow	Medium	N/A	N/A	3
Q2194-03	COMP-13	N/A	2.40	100	Brown	Yellow	Medium	N/A	N/A	4
Q2195-01	OK-01-060325	N/A	2.15	100	Brown	Yellow	Medium	N/A	N/A	5
Q2195-01MS	OK-01-060325MS	N/A	2.19	100	Brown	Yellow	Medium	N/A	M6007,M6016	7
Q2195-01MSD	OK-01-060325MSD	N/A	2.29	100	Brown	Yellow	Medium	N/A	M6007,M6016	8
Q2195-01DUP	OK-01-060325DUP	N/A	2.21	100	Brown	Yellow	Medium	N/A	N/A	6
Q2198-01	B-202-SB02	N/A	2.40	100	Brown	Yellow	Medium	N/A	N/A	9
Q2198-03	B-207-SB~~01~~ 02	N/A	2.22	100	Brown	Yellow	Medium	N/A	N/A	10
Q2199-01	ETGI-343	N/A	2.14	100	Brown	Yellow	Medium	N/A	N/A	11
Q2199-03	VNJ-231	N/A	2.17	100	Brown	Yellow	Medium	N/A	N/A	12
Q2199-05	72-11978	N/A	2.33	100	Brown	Yellow	Medium	N/A	N/A	13

SJ
06/11/25

Alliance TECHNICAL GROUP

Soil/Sludge Mercury Preparation Sheet

PB168290

SOP ID : M7471B-Mercury-18

SDG No : NA

Matrix : SOIL

Pippete ID: HG A

Balance ID : M SC-3

Filter paper ID : NA

pH Strip ID : NA

Hood ID : #1

Block ID: 1. HG HOT BLOCK#3 2. N/A

Start Digest Date: 06/04/2025 **Time :** 09:25 **Temp :** 94 °C

End Digest Date: 06/04/2025 **Time :** 09:55 **Temp :** 94 °C

Digestion tube ID: M5595

Block thermometer ID: HG-DIG#3

Dig Technician Signature:

Supervisor Signature:

Temp : 1. 94°C 2. N/A

Standared Name	MLS USED	STD REF. # FROM LOG
ICV	30mL	MP85885
CCV	30mL	MP85887
CRA	30mL	MP85889
Blank Spike	0.48mL	MP85878
Matrix Spike	0.48mL	MP85878

Chemical Used	ML/SAMPLE USED	Lot Number
AQUA REGIA	1.5mL	MP85891
KMnO4 (5%)	4.5mL	MP85241
Hydroxylamine HCL (12%)	2.0mL	MP85243
PTFE Boiling Stones	----------	M5582
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

LAB SAMPLE ID	CLIENT SAMPLE ID	Wt(g)/Vol(ml)	Comment
0.0 ppb	S0	30mL	MP85879
0.05 ppb	S0.05	N/A	N/A
0.2 ppb	S0.2	30mL	MP85880
2.5 ppb	S2.5	30mL	MP85881
5.0 ppb	S5.0	30mL	MP85882
7.5 ppb	S7.5	30mL	MP85883
10.0 ppb	S10.0	30mL	MP85884
ICV	ICV	30mL	MP85885
ICB	ICB	30mL	MP85886
CCV	CCV	30mL	MP85887
CCB	CCB	30mL	MP85888
CRI	CRI	30mL	MP85889
CHK STD	CHK STD	30mL	MP85890

Extraction Conformance/Non-Conformance Comments:

N/A

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
6/04/25 / 10:35	HG- Dig. Lab	
	Preparation Group	**Analysis Group**

Alliance TECHNICAL GROUP

Soil/Sludge Mercury Preparation Sheet

PB168290

Lab Sample ID	Client Sample ID	Initial Weight (g)	Final Vol (ml)	pH	Comment	Prep Pos
PB168290BL	PBS290	0.55	35	NA	N/A	3-1
PB168290BS	LCS290	0.54	35	NA	MP85878	2
Q2182-01	OR-03-06022025	0.54	35	NA	N/A	3
Q2194-01	COMP-12	0.57	35	NA	N/A	4
Q2194-03	COMP-13	0.58	35	NA	N/A	5
Q2195-01	OK-01-060325	0.56	35	NA	N/A	6
Q2195-01DUP	OK-01-060325DUP	0.53	35	NA	N/A	7
Q2195-01MS	OK-01-060325MS	0.55	35	NA	MP85878	8
Q2195-01MSD	OK-01-060325MSD	0.57	35	NA	MP85878	9
Q2198-01	B-202-SB02	0.5	35	NA	N/A	10
Q2198-03	B-207-SB~~01~~02	0.52	35	NA	N/A	11
Q2199-01	ETGI-343	0.52	35	NA	N/A	12
Q2199-03	VNJ-231	0.50	35	NA	N/A	13
Q2199-05	72-11978	0.55	35	NA	N/A	14

MB
06/11/25

Alliance TECHNICAL GROUP

Water Mercury Preparation Sheet

PB168317

SOP ID : M7470A-Mercury-20

SDG No : NA

Matrix : WATER

Pippete ID: HG A

Balance ID : N/A

Filter paper ID : NA

pH Strip ID : M6069

Hood ID : #1

Block ID: 1. HG HOT BLOCK#3 2. N/A

Start Digest Date: 06/05/2025 **Time :** 14:05 **Temp :** 94 °C

End Digest Date: ~~05/29/2025~~ 06/05/2025 **Time :** 16:05 **Temp :** 95 °C

Digestion tube ID: M5595

Block thermometer ID: HG-DIG#3

Dig Technician Signature: MB

Supervisor Signature: JZ

Temp : 1. 94°C 2. N/A

MB
06/11/25

Standared Name	MLS USED	STD REF. # FROM LOG
ICV	30mL	MP85905
CCV	30mL	MP85907
CRA	30mL	MP85909
Blank Spike	0.48mL	MP85898
Matrix Spike	0.48mL	MP85898

Chemical Used	ML/SAMPLE USED	Lot Number
HNO3/H2SO4(1:2)	2.25mL	MP85892
KMnO4 (5%)	4.5mL	MP85893
K2S2O8 (5%)	2.4mL	MP85894
Hydroxylamine HCL (12%)	1.8mL	MP85895
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

LAB SAMPLE ID	CLIENT SAMPLE ID	Wt(g)/Vol(ml)	Comment
0.0 ppb	S0	30mL	MP85899
0.05 ppb	S0.05	N/A	N/A
0.2 ppb	S0.2	30mL	MP85900
2.5 ppb	S2.5	30mL	MP85901
5.0 ppb	S5.0	30mL	MP85902
7.5 ppb	S7.5	30mL	MP85903
10.0 ppb	S10.0	30mL	MP85904
ICV	ICV	30mL	MP85905
ICB	ICB	30mL	MP85906
CCV	CCV	30mL	MP85907
CCB	CCB	30mL	MP85908
CRI	CRI	30mL	MP85909
CHK STD	CHK STD	30mL	MP85910

Extraction Conformance/Non-Conformance Comments:

N/A

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
6/5/25 @ 16:40	DG - DT3 : Lab	MB - Metal Lab
	Preparation Group	**Analysis Group**

Alliance TECHNICAL GROUP

Water Mercury Preparation Sheet

PB168317

Lab Sample ID	Client Sample ID	Initial Vol (ml)	Final Vol (ml)	pH	Comment	Prep Pos
PB168317BL	PBW317	30	30	<2	N/A	3-24
PB168317BS	LCS317	30	30	<2	MP85898	25
Q2175-09	52725	30	30	<2	N/A	26
Q2198-05	B-202-GW01	30	30	<2	N/A	27
Q2210-01	TW1	30	30	<2	N/A	28
Q2216-02	3887	30	30	<2	N/A	29
Q2216-02DUP	3887DUP	30	30	<2	N/A	30
Q2216-02MS	3887MS	30	30	<2	MP85898	31
Q2216-02MSD	3887MSD	30	30	<2	MP85898	32
Q2216-03	3888	30	30	<2	N/A	33
Q2216-04	3864	30	30	<2	N/A	34
Q2216-05	3865	30	30	<2	N/A	35
Q2216-06	3851	30	30	<2	N/A	36
Q2218-03	3309	30	30	<2	N/A	37
Q2221-02	34900	30	30	<2	N/A	38

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Hit Summary Sheet
SW-846

SDG No.: Q2198 **Order ID:** Q2198

Client: Portal Partners Tri-Venture **Project ID:** Amtrak Sawtooth Bridges 2025

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID : B-202-SB02								
Q2198-02	B-202-SB02	TCLP	Barium	1200		72.8	500	ug/L
Q2198-02	B-202-SB02	TCLP	Chromium	14.0	J	10.6	50.0	ug/L
Q2198-02	B-202-SB02	TCLP	Lead	21.5	J	11.5	60.0	ug/L
Client ID : B-207-SB02								
Q2198-04	B-207-SB02	TCLP	Barium	850		72.8	500	ug/L
Q2198-04	B-207-SB02	TCLP	Lead	55.7	J	11.5	60.0	ug/L

SAMPLE DATA

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	05/31/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	06/03/25
Client Sample ID:	B-202-SB02	SDG No.:	Q2198
Lab Sample ID:	Q2198-02	Matrix:	TCLP
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7440-38-2	Arsenic	25.6	U	1	25.6	100	ug/L	06/05/25 12:30	06/06/25 15:28	6010D	SW3050
7440-39-3	Barium	1200		1	72.8	500	ug/L	06/05/25 12:30	06/06/25 15:28	6010D	SW3050
7440-43-9	Cadmium	2.50	U	1	2.50	30.0	ug/L	06/05/25 12:30	06/06/25 15:28	6010D	SW3050
7440-47-3	Chromium	14.0	J	1	10.6	50.0	ug/L	06/05/25 12:30	06/06/25 15:28	6010D	SW3050
7439-92-1	Lead	21.5	J	1	11.5	60.0	ug/L	06/05/25 12:30	06/06/25 15:28	6010D	SW3050
7439-97-6	Mercury	0.76	U	1	0.76	2.00	ug/L	06/05/25 14:05	06/06/25 10:33	7470A	
7782-49-2	Selenium	48.2	U	1	48.2	100	ug/L	06/05/25 12:30	06/06/25 15:28	6010D	SW3050
7440-22-4	Silver	8.10	U	1	8.10	50.0	ug/L	06/05/25 12:30	06/06/25 15:28	6010D	SW3050

Color Before:	Colorless	Clarity Before:	Clear	Texture:	
Color After:	Colorless	Clarity After:	Clear	Artifacts:	
Comments:	TCLP-FULL				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	06/01/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	06/03/25
Client Sample ID:	B-207-SB02	SDG No.:	Q2198
Lab Sample ID:	Q2198-04	Matrix:	TCLP
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7440-38-2	Arsenic	25.6	U	1	25.6	100	ug/L	06/05/25 12:30	06/06/25 15:33	6010D	SW3050
7440-39-3	Barium	850		1	72.8	500	ug/L	06/05/25 12:30	06/06/25 15:33	6010D	SW3050
7440-43-9	Cadmium	2.50	U	1	2.50	30.0	ug/L	06/05/25 12:30	06/06/25 15:33	6010D	SW3050
7440-47-3	Chromium	10.6	U	1	10.6	50.0	ug/L	06/05/25 12:30	06/06/25 15:33	6010D	SW3050
7439-92-1	Lead	55.7	J	1	11.5	60.0	ug/L	06/05/25 12:30	06/06/25 15:33	6010D	SW3050
7439-97-6	Mercury	0.76	U	1	0.76	2.00	ug/L	06/05/25 14:05	06/06/25 10:35	7470A	
7782-49-2	Selenium	48.2	U	1	48.2	100	ug/L	06/05/25 12:30	06/06/25 15:33	6010D	SW3050
7440-22-4	Silver	8.10	U	1	8.10	50.0	ug/L	06/05/25 12:30	06/06/25 15:33	6010D	SW3050

Color Before:	Colorless	Clarity Before:	Clear	Texture:	
Color After:	Colorless	Clarity After:	Clear	Artifacts:	
Comments:	TCLP-FULL				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

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Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q2198

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q2198 **SAS No.:** Q2198

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB29	Mercury	0.076	+/-0.2	U	0.20	CV	06/06/2025	10:05	LB136036

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q2198

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q2198 **SAS No.:** Q2198

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB08	Mercury	0.076	+/-0.2	U	0.20	CV	06/06/2025	10:10	LB136036
CCB09	Mercury	0.076	+/-0.2	U	0.20	CV	06/06/2025	10:40	LB136036
CCB10	Mercury	0.076	+/-0.2	U	0.20	CV	06/06/2025	11:07	LB136036
CCB11	Mercury	0.076	+/-0.2	U	0.20	CV	06/06/2025	11:43	LB136036
CCB12	Mercury	0.076	+/-0.2	U	0.20	CV	06/06/2025	12:08	LB136036
CCB13	Mercury	0.076	+/-0.2	U	0.20	CV	06/06/2025	12:35	LB136036

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q2198

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q2198 **SAS No.:** Q2198

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB01	Arsenic	5.12	+/-10	U	20.0	P	06/06/2025	13:33	LB136052
	Barium	14.6	+/-50	U	100	P	06/06/2025	13:33	LB136052
	Cadmium	0.50	+/-3	U	6.00	P	06/06/2025	13:33	LB136052
	Chromium	2.12	+/-5	U	10.0	P	06/06/2025	13:33	LB136052
	Lead	2.30	+/-6	U	12.0	P	06/06/2025	13:33	LB136052
	Selenium	9.64	+/-10	U	20.0	P	06/06/2025	13:33	LB136052
	Silver	1.62	+/-5	U	10.0	P	06/06/2025	13:33	LB136052

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q2198

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q2198 **SAS No.:** Q2198

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB01	Arsenic	5.12	+/-10	U	20.0	P	06/06/2025	14:09	LB136052
	Barium	14.6	+/-50	U	100	P	06/06/2025	14:09	LB136052
	Cadmium	0.50	+/-3	U	6.00	P	06/06/2025	14:09	LB136052
	Chromium	2.12	+/-5	U	10.0	P	06/06/2025	14:09	LB136052
	Lead	2.30	+/-6	U	12.0	P	06/06/2025	14:09	LB136052
	Selenium	9.64	+/-10	U	20.0	P	06/06/2025	14:09	LB136052
	Silver	1.62	+/-5	U	10.0	P	06/06/2025	14:09	LB136052
CCB02	Arsenic	5.12	+/-10	U	20.0	P	06/06/2025	15:00	LB136052
	Barium	14.6	+/-50	U	100	P	06/06/2025	15:00	LB136052
	Cadmium	0.50	+/-3	U	6.00	P	06/06/2025	15:00	LB136052
	Chromium	2.12	+/-5	U	10.0	P	06/06/2025	15:00	LB136052
	Lead	2.30	+/-6	U	12.0	P	06/06/2025	15:00	LB136052
	Selenium	9.64	+/-10	U	20.0	P	06/06/2025	15:00	LB136052
	Silver	1.62	+/-5	U	10.0	P	06/06/2025	15:00	LB136052
CCB03	Arsenic	5.12	+/-10	U	20.0	P	06/06/2025	15:57	LB136052
	Barium	14.6	+/-50	U	100	P	06/06/2025	15:57	LB136052
	Cadmium	0.50	+/-3	U	6.00	P	06/06/2025	15:57	LB136052
	Chromium	2.12	+/-5	U	10.0	P	06/06/2025	15:57	LB136052
	Lead	2.30	+/-6	U	12.0	P	06/06/2025	15:57	LB136052
	Selenium	9.64	+/-10	U	20.0	P	06/06/2025	15:57	LB136052
	Silver	1.62	+/-5	U	10.0	P	06/06/2025	15:57	LB136052
CCB04	Arsenic	5.12	+/-10	U	20.0	P	06/06/2025	16:51	LB136052
	Barium	14.6	+/-50	U	100	P	06/06/2025	16:51	LB136052
	Cadmium	0.50	+/-3	U	6.00	P	06/06/2025	16:51	LB136052
	Chromium	2.12	+/-5	U	10.0	P	06/06/2025	16:51	LB136052
	Lead	2.30	+/-6	U	12.0	P	06/06/2025	16:51	LB136052
	Selenium	9.64	+/-10	U	20.0	P	06/06/2025	16:51	LB136052
	Silver	1.62	+/-5	U	10.0	P	06/06/2025	16:51	LB136052
CCB05	Arsenic	5.12	+/-10	U	20.0	P	06/06/2025	17:46	LB136052
	Barium	14.6	+/-50	U	100	P	06/06/2025	17:46	LB136052
	Cadmium	0.50	+/-3	U	6.00	P	06/06/2025	17:46	LB136052
	Chromium	2.12	+/-5	U	10.0	P	06/06/2025	17:46	LB136052
	Lead	2.30	+/-6	U	12.0	P	06/06/2025	17:46	LB136052
	Selenium	9.64	+/-10	U	20.0	P	06/06/2025	17:46	LB136052
	Silver	1.62	+/-5	U	10.0	P	06/06/2025	17:46	LB136052
CCB06	Arsenic	5.12	+/-10	U	20.0	P	06/07/2025	03:07	LB136052
	Barium	14.6	+/-50	U	100	P	06/07/2025	03:07	LB136052
	Cadmium	0.50	+/-3	U	6.00	P	06/07/2025	03:07	LB136052
	Chromium	2.12	+/-5	U	10.0	P	06/07/2025	03:07	LB136052

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- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q2198

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q2198 **SAS No.:** Q2198

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB06	Lead	2.30	+/-6	U	12.0	P	06/07/2025	03:07	LB136052
	Selenium	9.64	+/-10	U	20.0	P	06/07/2025	03:07	LB136052
	Silver	1.62	+/-5	U	10.0	P	06/07/2025	03:07	LB136052
CCB07	Arsenic	5.12	+/-10	U	20.0	P	06/07/2025	03:44	LB136052
	Barium	14.6	+/-50	U	100	P	06/07/2025	03:44	LB136052
	Cadmium	0.50	+/-3	U	6.00	P	06/07/2025	03:44	LB136052
	Chromium	2.12	+/-5	U	10.0	P	06/07/2025	03:44	LB136052
	Lead	2.30	+/-6	U	12.0	P	06/07/2025	03:44	LB136052
	Selenium	9.64	+/-10	U	20.0	P	06/07/2025	03:44	LB136052
	Silver	1.62	+/-5	U	10.0	P	06/07/2025	03:44	LB136052

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q2198

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q2198 **SAS No.:** Q2198

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB01	Arsenic	5.12	+/-10	U	20.0	P	06/09/2025	12:40	LB136071
	Barium	14.6	+/-50	U	100	P	06/09/2025	12:40	LB136071
	Cadmium	0.50	+/-3	U	6.00	P	06/09/2025	12:40	LB136071
	Chromium	2.12	+/-5	U	10.0	P	06/09/2025	12:40	LB136071
	Lead	2.30	+/-6	U	12.0	P	06/09/2025	12:40	LB136071
	Selenium	9.64	+/-10	U	20.0	P	06/09/2025	12:40	LB136071
	Silver	1.62	+/-5	U	10.0	P	06/09/2025	12:40	LB136071

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q2198

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q2198 **SAS No.:** Q2198

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB01	Arsenic	5.12	+/-10	U	20.0	P	06/09/2025	13:11	LB136071
	Barium	14.6	+/-50	U	100	P	06/09/2025	13:11	LB136071
	Cadmium	0.50	+/-3	U	6.00	P	06/09/2025	13:11	LB136071
	Chromium	2.12	+/-5	U	10.0	P	06/09/2025	13:11	LB136071
	Lead	2.30	+/-6	U	12.0	P	06/09/2025	13:11	LB136071
	Selenium	9.64	+/-10	U	20.0	P	06/09/2025	13:11	LB136071
	Silver	1.62	+/-5	U	10.0	P	06/09/2025	13:11	LB136071
CCB02	Arsenic	5.12	+/-10	U	20.0	P	06/09/2025	13:57	LB136071
	Barium	14.6	+/-50	U	100	P	06/09/2025	13:57	LB136071
	Cadmium	0.50	+/-3	U	6.00	P	06/09/2025	13:57	LB136071
	Chromium	2.12	+/-5	U	10.0	P	06/09/2025	13:57	LB136071
	Lead	2.30	+/-6	U	12.0	P	06/09/2025	13:57	LB136071
	Selenium	9.64	+/-10	U	20.0	P	06/09/2025	13:57	LB136071
	Silver	1.62	+/-5	U	10.0	P	06/09/2025	13:57	LB136071
CCB03	Arsenic	5.12	+/-10	U	20.0	P	06/09/2025	14:43	LB136071
	Barium	14.6	+/-50	U	100	P	06/09/2025	14:43	LB136071
	Cadmium	0.50	+/-3	U	6.00	P	06/09/2025	14:43	LB136071
	Chromium	2.12	+/-5	U	10.0	P	06/09/2025	14:43	LB136071
	Lead	2.30	+/-6	U	12.0	P	06/09/2025	14:43	LB136071
	Selenium	9.64	+/-10	U	20.0	P	06/09/2025	14:43	LB136071
	Silver	1.62	+/-5	U	10.0	P	06/09/2025	14:43	LB136071
CCB04	Arsenic	5.12	+/-10	U	20.0	P	06/09/2025	15:39	LB136071
	Barium	14.6	+/-50	U	100	P	06/09/2025	15:39	LB136071
	Cadmium	0.50	+/-3	U	6.00	P	06/09/2025	15:39	LB136071
	Chromium	2.12	+/-5	U	10.0	P	06/09/2025	15:39	LB136071
	Lead	2.30	+/-6	U	12.0	P	06/09/2025	15:39	LB136071
	Selenium	9.64	+/-10	U	20.0	P	06/09/2025	15:39	LB136071
	Silver	1.62	+/-5	U	10.0	P	06/09/2025	15:39	LB136071
CCB05	Arsenic	5.12	+/-10	U	20.0	P	06/09/2025	16:27	LB136071
	Barium	14.6	+/-50	U	100	P	06/09/2025	16:27	LB136071
	Cadmium	0.50	+/-3	U	6.00	P	06/09/2025	16:27	LB136071
	Chromium	2.12	+/-5	U	10.0	P	06/09/2025	16:27	LB136071
	Lead	2.30	+/-6	U	12.0	P	06/09/2025	16:27	LB136071
	Selenium	9.64	+/-10	U	20.0	P	06/09/2025	16:27	LB136071
	Silver	1.62	+/-5	U	10.0	P	06/09/2025	16:27	LB136071

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Metals
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PREPARATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q2198

Instrument: CV1

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB168271TB		**WATER**		**Batch Number:**	**PB168316**		**Prep Date:**	**06/05/2025**	
	Mercury	0.76	<2	U	2.00	CV	06/06/2025	12:11	LB136036

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB168316BL		**WATER**		**Batch Number:**	**PB168316**		**Prep Date:**	**06/05/2025**	
	Mercury	0.076	<0.2	U	0.20	CV	06/06/2025	10:19	LB136036

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Metals
- 3b -
PREPARATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q2198

Instrument: P4

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB168271TB		**WATER**		**Batch Number:**	**PB168307**		**Prep Date:**	**06/05/2025**	
	Arsenic	25.6	<50	U	100	P	06/06/2025	15:10	LB136052
	Barium	72.8	<250	U	500	P	06/06/2025	15:10	LB136052
	Cadmium	2.50	<15	U	30.0	P	06/06/2025	15:10	LB136052
	Chromium	10.6	<25	U	50.0	P	06/06/2025	15:10	LB136052
	Lead	11.5	<30	U	60.0	P	06/06/2025	15:10	LB136052
	Selenium	48.2	<50	U	100	P	06/06/2025	15:10	LB136052
	Silver	8.10	<25	U	50.0	P	06/06/2025	15:10	LB136052

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB168307BL		**WATER**		**Batch Number:**	**PB168307**		**Prep Date:**	**06/05/2025**	
	Arsenic	25.6	<50	U	100	P	06/06/2025	14:39	LB136052
	Barium	72.8	<250	U	500	P	06/06/2025	14:39	LB136052
	Cadmium	2.50	<15	U	30.0	P	06/06/2025	14:39	LB136052
	Chromium	10.6	<25	U	50.0	P	06/06/2025	14:39	LB136052
	Lead	11.5	<30	U	60.0	P	06/06/2025	14:39	LB136052
	Selenium	48.2	<50	U	100	P	06/06/2025	14:39	LB136052
	Silver	8.10	<25	U	50.0	P	06/06/2025	14:39	LB136052

METAL CALIBRATION DATA

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q2198

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q2198 **SAS No.:** Q2198

Initial Calibration Source: EPA

Continuing Calibration Source: PLASMA-PURE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV29	Mercury	3.69	4.0	92	90 - 110	CV	06/06/2025	10:03	LB136036

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q2198

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q2198 **SAS No.:** Q2198

Initial Calibration Source: EPA

Continuing Calibration Source: PLASMA-PURE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV08	Mercury	4.74	5.0	95	90 - 110	CV	06/06/2025	10:07	LB136036
CCV09	Mercury	4.88	5.0	98	90 - 110	CV	06/06/2025	10:37	LB136036
CCV10	Mercury	4.71	5.0	94	90 - 110	CV	06/06/2025	11:04	LB136036
CCV11	Mercury	4.55	5.0	91	90 - 110	CV	06/06/2025	11:41	LB136036
CCV12	Mercury	4.77	5.0	96	90 - 110	CV	06/06/2025	12:06	LB136036
CCV13	Mercury	5.10	5.0	102	90 - 110	CV	06/06/2025	12:33	LB136036

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q2198

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q2198 **SAS No.:** Q2198

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV01	Arsenic	1010	1000	101	90 - 110	P	06/06/2025	13:16	LB136052
	Barium	507	520	98	90 - 110	P	06/06/2025	13:16	LB136052
	Cadmium	502	510	98	90 - 110	P	06/06/2025	13:16	LB136052
	Chromium	522	520	100	90 - 110	P	06/06/2025	13:16	LB136052
	Lead	980	1000	98	90 - 110	P	06/06/2025	13:16	LB136052
	Selenium	998	1000	100	90 - 110	P	06/06/2025	13:16	LB136052
	Silver	243	250	97	90 - 110	P	06/06/2025	13:16	LB136052

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q2198

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q2198 **SAS No.:** Q2198

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
LLICV01	Arsenic	21.6	20.0	108	80 - 120	P	06/06/2025	13:29	LB136052
	Barium	92.0	100	92	80 - 120	P	06/06/2025	13:29	LB136052
	Cadmium	6.02	6.0	100	80 - 120	P	06/06/2025	13:29	LB136052
	Chromium	9.45	10.0	94	80 - 120	P	06/06/2025	13:29	LB136052
	Lead	13.9	12.0	116	80 - 120	P	06/06/2025	13:29	LB136052
	Selenium	22.5	20.0	112	80 - 120	P	06/06/2025	13:29	LB136052
	Silver	9.79	10.0	98	80 - 120	P	06/06/2025	13:29	LB136052

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q2198

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q2198 **SAS No.:** Q2198

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV01	Arsenic	5060	5000	101	90 - 110	P	06/06/2025	14:05	LB136052
	Barium	9720	10000	97	90 - 110	P	06/06/2025	14:05	LB136052
	Cadmium	2460	2500	98	90 - 110	P	06/06/2025	14:05	LB136052
	Chromium	995	1000	100	90 - 110	P	06/06/2025	14:05	LB136052
	Lead	4910	5000	98	90 - 110	P	06/06/2025	14:05	LB136052
	Selenium	5120	5000	102	90 - 110	P	06/06/2025	14:05	LB136052
	Silver	1240	1250	99	90 - 110	P	06/06/2025	14:05	LB136052
CCV02	Arsenic	5110	5000	102	90 - 110	P	06/06/2025	14:56	LB136052
	Barium	9740	10000	97	90 - 110	P	06/06/2025	14:56	LB136052
	Cadmium	2470	2500	99	90 - 110	P	06/06/2025	14:56	LB136052
	Chromium	993	1000	99	90 - 110	P	06/06/2025	14:56	LB136052
	Lead	4960	5000	99	90 - 110	P	06/06/2025	14:56	LB136052
	Selenium	5170	5000	103	90 - 110	P	06/06/2025	14:56	LB136052
	Silver	1250	1250	100	90 - 110	P	06/06/2025	14:56	LB136052
CCV03	Arsenic	5150	5000	103	90 - 110	P	06/06/2025	15:50	LB136052
	Barium	9690	10000	97	90 - 110	P	06/06/2025	15:50	LB136052
	Cadmium	2510	2500	100	90 - 110	P	06/06/2025	15:50	LB136052
	Chromium	998	1000	100	90 - 110	P	06/06/2025	15:50	LB136052
	Lead	5000	5000	100	90 - 110	P	06/06/2025	15:50	LB136052
	Selenium	5210	5000	104	90 - 110	P	06/06/2025	15:50	LB136052
	Silver	1240	1250	99	90 - 110	P	06/06/2025	15:50	LB136052
CCV04	Arsenic	4920	5000	98	90 - 110	P	06/06/2025	16:46	LB136052
	Barium	9750	10000	98	90 - 110	P	06/06/2025	16:46	LB136052
	Cadmium	2450	2500	98	90 - 110	P	06/06/2025	16:46	LB136052
	Chromium	993	1000	99	90 - 110	P	06/06/2025	16:46	LB136052
	Lead	4890	5000	98	90 - 110	P	06/06/2025	16:46	LB136052
	Selenium	4920	5000	98	90 - 110	P	06/06/2025	16:46	LB136052
	Silver	1230	1250	98	90 - 110	P	06/06/2025	16:46	LB136052
CCV05	Arsenic	4930	5000	99	90 - 110	P	06/06/2025	17:40	LB136052
	Barium	9480	10000	95	90 - 110	P	06/06/2025	17:40	LB136052
	Cadmium	2390	2500	96	90 - 110	P	06/06/2025	17:40	LB136052
	Chromium	977	1000	98	90 - 110	P	06/06/2025	17:40	LB136052
	Lead	4810	5000	96	90 - 110	P	06/06/2025	17:40	LB136052
	Selenium	5010	5000	100	90 - 110	P	06/06/2025	17:40	LB136052

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q2198

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q2198 **SAS No.:** Q2198

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV05	Silver	1230	1250	99	90 - 110	P	06/06/2025	17:40	LB136052
CCV06	Arsenic	4390	5000	88	90 - 110	P	06/07/2025	03:03	LB136052
	Barium	9840	10000	98	90 - 110	P	06/07/2025	03:03	LB136052
	Cadmium	2300	2500	92	90 - 110	P	06/07/2025	03:03	LB136052
	Chromium	907	1000	91	90 - 110	P	06/07/2025	03:03	LB136052
	Lead	4580	5000	92	90 - 110	P	06/07/2025	03:03	LB136052
	Selenium	4340	5000	87	90 - 110	P	06/07/2025	03:03	LB136052
	Silver	1120	1250	90	90 - 110	P	06/07/2025	03:03	LB136052
CCV07	Arsenic	4400	5000	88	90 - 110	P	06/07/2025	03:40	LB136052
	Barium	10300	10000	103	90 - 110	P	06/07/2025	03:40	LB136052
	Cadmium	2330	2500	93	90 - 110	P	06/07/2025	03:40	LB136052
	Chromium	951	1000	95	90 - 110	P	06/07/2025	03:40	LB136052
	Lead	4630	5000	92	90 - 110	P	06/07/2025	03:40	LB136052
	Selenium	4350	5000	87	90 - 110	P	06/07/2025	03:40	LB136052
	Silver	1180	1250	95	90 - 110	P	06/07/2025	03:40	LB136052

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q2198

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q2198 **SAS No.:** Q2198

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV01	Arsenic	964	1000	96	90 - 110	P	06/09/2025	12:31	LB136071
	Barium	477	520	92	90 - 110	P	06/09/2025	12:31	LB136071
	Cadmium	472	510	93	90 - 110	P	06/09/2025	12:31	LB136071
	Chromium	504	520	97	90 - 110	P	06/09/2025	12:31	LB136071
	Lead	927	1000	93	90 - 110	P	06/09/2025	12:31	LB136071
	Selenium	947	1000	95	90 - 110	P	06/09/2025	12:31	LB136071
	Silver	256	250	102	90 - 110	P	06/09/2025	12:31	LB136071

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q2198

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q2198 **SAS No.:** Q2198

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
LLICV01	Arsenic	18.9	20.0	95	80 - 120	P	06/09/2025	12:36	LB136071
	Barium	93.5	100	94	80 - 120	P	06/09/2025	12:36	LB136071
	Cadmium	5.83	6.0	97	80 - 120	P	06/09/2025	12:36	LB136071
	Chromium	9.51	10.0	95	80 - 120	P	06/09/2025	12:36	LB136071
	Lead	13.3	12.0	111	80 - 120	P	06/09/2025	12:36	LB136071
	Selenium	17.9	20.0	89	80 - 120	P	06/09/2025	12:36	LB136071
	Silver	9.82	10.0	98	80 - 120	P	06/09/2025	12:36	LB136071

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q2198

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q2198 **SAS No.:** Q2198

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV01	Arsenic	5000	5000	100	90 - 110	P	06/09/2025	13:06	LB136071
	Barium	9520	10000	95	90 - 110	P	06/09/2025	13:06	LB136071
	Cadmium	2440	2500	98	90 - 110	P	06/09/2025	13:06	LB136071
	Chromium	997	1000	100	90 - 110	P	06/09/2025	13:06	LB136071
	Lead	4900	5000	98	90 - 110	P	06/09/2025	13:06	LB136071
	Selenium	5060	5000	101	90 - 110	P	06/09/2025	13:06	LB136071
	Silver	1250	1250	100	90 - 110	P	06/09/2025	13:06	LB136071
CCV02	Arsenic	4990	5000	100	90 - 110	P	06/09/2025	13:53	LB136071
	Barium	9530	10000	95	90 - 110	P	06/09/2025	13:53	LB136071
	Cadmium	2440	2500	98	90 - 110	P	06/09/2025	13:53	LB136071
	Chromium	987	1000	99	90 - 110	P	06/09/2025	13:53	LB136071
	Lead	4900	5000	98	90 - 110	P	06/09/2025	13:53	LB136071
	Selenium	5060	5000	101	90 - 110	P	06/09/2025	13:53	LB136071
	Silver	1230	1250	99	90 - 110	P	06/09/2025	13:53	LB136071
CCV03	Arsenic	4930	5000	98	90 - 110	P	06/09/2025	14:39	LB136071
	Barium	9250	10000	92	90 - 110	P	06/09/2025	14:39	LB136071
	Cadmium	2390	2500	96	90 - 110	P	06/09/2025	14:39	LB136071
	Chromium	958	1000	96	90 - 110	P	06/09/2025	14:39	LB136071
	Lead	4800	5000	96	90 - 110	P	06/09/2025	14:39	LB136071
	Selenium	5010	5000	100	90 - 110	P	06/09/2025	14:39	LB136071
	Silver	1200	1250	96	90 - 110	P	06/09/2025	14:39	LB136071
CCV04	Arsenic	4800	5000	96	90 - 110	P	06/09/2025	15:34	LB136071
	Barium	9450	10000	94	90 - 110	P	06/09/2025	15:34	LB136071
	Cadmium	2330	2500	93	90 - 110	P	06/09/2025	15:34	LB136071
	Chromium	961	1000	96	90 - 110	P	06/09/2025	15:34	LB136071
	Lead	4700	5000	94	90 - 110	P	06/09/2025	15:34	LB136071
	Selenium	4870	5000	97	90 - 110	P	06/09/2025	15:34	LB136071
	Silver	1210	1250	97	90 - 110	P	06/09/2025	15:34	LB136071
CCV05	Arsenic	4780	5000	96	90 - 110	P	06/09/2025	16:23	LB136071
	Barium	9510	10000	95	90 - 110	P	06/09/2025	16:23	LB136071
	Cadmium	2350	2500	94	90 - 110	P	06/09/2025	16:23	LB136071
	Chromium	953	1000	95	90 - 110	P	06/09/2025	16:23	LB136071
	Lead	4730	5000	95	90 - 110	P	06/09/2025	16:23	LB136071
	Selenium	4840	5000	97	90 - 110	P	06/09/2025	16:23	LB136071

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q2198

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q2198 **SAS No.:** Q2198

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV05	Silver	1190	1250	95	90 - 110	P	06/09/2025	16:23	LB136071

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Metals

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CRDL STANDARD FOR AA & ICP

Client: Portal Partners Tri-Venture **SDG No.:** Q2198

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q2198 **SAS No.:** Q2198

Initial Calibration Source:

Continuing Calibration Source:

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CRA	Mercury	0.21	0.2	107	70 - 130	CV	06/06/2025	10:12	LB136036
CRI01	Arsenic	21.3	20.0	107	65 - 135	P	06/06/2025	13:37	LB136052
	Barium	91.8	100	92	65 - 135	P	06/06/2025	13:37	LB136052
	Cadmium	5.92	6.0	99	65 - 135	P	06/06/2025	13:37	LB136052
	Chromium	9.75	10.0	98	65 - 135	P	06/06/2025	13:37	LB136052
	Lead	13.8	12.0	115	65 - 135	P	06/06/2025	13:37	LB136052
	Selenium	19.7	20.0	98	65 - 135	P	06/06/2025	13:37	LB136052
	Silver	10.1	10.0	101	65 - 135	P	06/06/2025	13:37	LB136052
CRI01	Arsenic	19.0	20.0	95	65 - 135	P	06/09/2025	12:44	LB136071
	Barium	91.7	100	92	65 - 135	P	06/09/2025	12:44	LB136071
	Cadmium	5.74	6.0	96	65 - 135	P	06/09/2025	12:44	LB136071
	Chromium	9.13	10.0	91	65 - 135	P	06/09/2025	12:44	LB136071
	Lead	12.3	12.0	103	65 - 135	P	06/09/2025	12:44	LB136071
	Selenium	18.5	20.0	93	65 - 135	P	06/09/2025	12:44	LB136071
	Silver	9.51	10.0	95	65 - 135	P	06/09/2025	12:44	LB136071

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Metals
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INTERFERENCE CHECK SAMPLE

Client: Portal Partners Tri-Venture **SDG No.:** Q2198

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q2198 **SAS No.:** Q2198

ICS Source: EPA **Instrument ID:** P4

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Low Limit (ug/L)	High Limit (ug/L)	Analysis Date	Analysis Time	Run Number
ICSA01	Arsenic	4.57			-20	20	06/06/2025	13:42	LB136052
	Barium	1.92	6.0	32	-94	106	06/06/2025	13:42	LB136052
	Cadmium	2.20	1.0	220	-5	7	06/06/2025	13:42	LB136052
	Chromium	45.0	52.0	86	42	62	06/06/2025	13:42	LB136052
	Lead	2.11			-12	12	06/06/2025	13:42	LB136052
	Selenium	0.16			-20	20	06/06/2025	13:42	LB136052
	Silver	0.046			-10	10	06/06/2025	13:42	LB136052
ICSAB01	Arsenic	106	104	102	88.4	120	06/06/2025	13:46	LB136052
	Barium	477	537	89	437	637	06/06/2025	13:46	LB136052
	Cadmium	970	972	100	826	1120	06/06/2025	13:46	LB136052
	Chromium	545	542	101	460	624	06/06/2025	13:46	LB136052
	Lead	47.1	49.0	96	37	61	06/06/2025	13:46	LB136052
	Selenium	42.7	46.0	93	26	66	06/06/2025	13:46	LB136052
	Silver	213	201	106	170	232	06/06/2025	13:46	LB136052
ICSA01	Arsenic	1.84			-20	20	06/09/2025	12:48	LB136071
	Barium	3.38	6.0	56	-94	106	06/09/2025	12:48	LB136071
	Cadmium	0.56	1.0	56	-5	7	06/09/2025	12:48	LB136071
	Chromium	44.9	52.0	86	42	62	06/09/2025	12:48	LB136071
	Lead	-4.92			-12	12	06/09/2025	12:48	LB136071
	Selenium	-6.19			-20	20	06/09/2025	12:48	LB136071
	Silver	-0.39			-10	10	06/09/2025	12:48	LB136071
ICSAB01	Arsenic	103	104	99	88.4	120	06/09/2025	12:54	LB136071
	Barium	491	537	91	437	637	06/09/2025	12:54	LB136071
	Cadmium	962	972	99	826	1120	06/09/2025	12:54	LB136071
	Chromium	541	542	100	460	624	06/09/2025	12:54	LB136071
	Lead	40.2	49.0	82	37	61	06/09/2025	12:54	LB136071
	Selenium	31.4	46.0	68	26	66	06/09/2025	12:54	LB136071
	Silver	213	201	106	170	232	06/09/2025	12:54	LB136071

METAL QC DATA

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metals
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MATRIX SPIKE SUMMARY

client: Portal Partners Tri-Venture **level:** low **sdg no.:** Q2198

contract: PORT06 **lab code:** CHEM **case no.:** Q2198 **sas no.:** Q2198

matrix: Water **sample id:** Q2208-36 **client id:** BU-703-COMP-09MS

Percent Solids for Sample: NA **Spiked ID:** Q2208-36MS **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Arsenic	ug/L	75 - 125	3850		100	U	4000	96		P
Barium	ug/L	75 - 125	2090		1050		1000	104		P
Cadmium	ug/L	75 - 125	981		30.0	U	1000	98		P
Chromium	ug/L	75 - 125	1950		14.6	J	2000	97		P
Lead	ug/L	75 - 125	4660		14.2	J	5000	93		P
Mercury	ug/L	75 - 125	41.2		2.00	U	40.0	103		CV
Selenium	ug/L	75 - 125	9560		100	U	10000	96		P
Silver	ug/L	75 - 125	331		50.0	U	380	87		P

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metals
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MATRIX SPIKE DUPLICATE SUMMARY

client: Portal Partners Tri-Venture **level:** low **sdg no.:** Q2198

contract: PORT06 **lab code:** CHEM **case no.:** Q2198 **sas no.:** Q2198

matrix: Water **sample id:** Q2208-36 **client id:** BU-703-COMP-09MSD

Percent Solids for Sample: NA **Spiked ID:** Q2208-36MSD **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Arsenic	ug/L	75 - 125	3830		100	U	4000	96		P
Barium	ug/L	75 - 125	1980		1050		1000	93		P
Cadmium	ug/L	75 - 125	951		30.0	U	1000	95		P
Chromium	ug/L	75 - 125	1940		14.6	J	2000	96		P
Lead	ug/L	75 - 125	4560		14.2	J	5000	91		P
Mercury	ug/L	75 - 125	41.0		2.00	U	40.0	102		CV
Selenium	ug/L	75 - 125	9570		100	U	10000	96		P
Silver	ug/L	75 - 125	347		50.0	U	380	91		P

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Metals
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Client: Portal Partners Tri-Venture **SDG No.:** Q2198

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q2198 **SAS No.:** Q2198

Matrix: **Level:** LOW **Client ID:**

Sample ID: **Spiked ID:**

Analyte	Units	Acceptance Limit %R	C	Sample Result	C	Spike Added	% Recovery	Qual	M

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Metals

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DUPLICATE SAMPLE SUMMARY

Client: Portal Partners Tri-Venture **Level:** LOW **SDG No.:** Q2198

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q2198 **SAS No.:** Q2198

Matrix: Water **Sample ID:** Q2208-36 **Client ID:** BU-703-COMP-09DUP

Percent Solids for Sample: NA **Duplicate ID** Q2208-36DUP **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Arsenic	ug/L	20	100	U	100	U			P
Barium	ug/L	20	1050		872		19		P
Cadmium	ug/L	20	30.0	U	30.0	U			P
Chromium	ug/L	20	14.6	J	14.4	J	1		P
Lead	ug/L	20	14.2	J	60.0	U	200.0		P
Mercury	ug/L	20	2.00	U	2.00	U			CV
Selenium	ug/L	20	100	U	100	U			P
Silver	ug/L	20	50.0	U	50.0	U			P

"A control limit of ±20% RPD for each matrix applies for sample values greater than 10 times Detection Limit"

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Metals

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DUPLICATE SAMPLE SUMMARY

Client: Portal Partners Tri-Venture **Level:** LOW **SDG No.:** Q2198

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q2198 **SAS No.:** Q2198

Matrix: Water **Sample ID:** Q2208-36MS **Client ID:** BU-703-COMP-09MSD

Percent Solids for Sample: NA **Duplicate ID** Q2208-36MSD **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Arsenic	ug/L	20	3850		3830		1		P
Barium	ug/L	20	2090		1980		5		P
Cadmium	ug/L	20	981		951		3		P
Chromium	ug/L	20	1950		1940		1		P
Lead	ug/L	20	4660		4560		2		P
Mercury	ug/L	20	41.2		41.0		0		CV
Selenium	ug/L	20	9560		9570		0		P
Silver	ug/L	20	331		347		5		P

"A control limit of ±20% RPD for each matrix applies for sample values greater than 10 times Detection Limit"

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Metals

LABORATORY CONTROL SAMPLE SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q2198

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q2198 **SAS No.:** Q2198

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB168307BS							
Arsenic	ug/L	4000	4100		102	80 - 120	P
Barium	ug/L	1000	970		97	80 - 120	P
Cadmium	ug/L	1000	1020		102	80 - 120	P
Chromium	ug/L	2000	2090		104	80 - 120	P
Lead	ug/L	5000	4990		100	80 - 120	P
Selenium	ug/L	10000	10400		104	80 - 120	P
Silver	ug/L	380	376		99	80 - 120	P

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Metals

LABORATORY CONTROL SAMPLE SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q2198

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q2198 **SAS No.:** Q2198

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB168316BS							
Mercury	ug/L	4.0	3.75		94	80 - 120	CV

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Metals

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ICP SERIAL DILUTIONS

SAMPLE NO.

BU-703-COMP-09L

Lab Name: Chemtech Consulting Group **Contract:** PORT06

Lab Code: CHEM **Lb No.:** lb136071 **Lab Sample ID :** Q2208-36L **SDG No.:** Q2198

Matrix (soil/water): Water **Level (low/med):** LOW

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Arsenic	100	U	500	U			P
Barium	1050		931	J	11		P
Cadmium	30.0	U	150	U			P
Chromium	14.6	J	250	U	100.0		P
Lead	14.2	J	300	U	100.0		P
Mercury	2.00	U	10.0	U			CV
Selenium	100	U	500	U			P
Silver	50.0	U	250	U			P

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metals
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ANALYSIS RUN LOG

Client: Portal Partners Tri-Venture **Contract:** PORT06

Lab code: CHEM **Case no.:** Q2198 **Sas no.:** Q2198 **Sdg no.:** Q2198

Instrument id number: **Method:** **Run number:** LB136036

Start date: 06/06/2025 **End date:** 06/06/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	0948	HG
S0.2	S0.2	1	0950	HG
S2.5	S2.5	1	0953	HG
S5	S5	1	0955	HG
S7.5	S7.5	1	0957	HG
S10	S10	1	1000	HG
ICV29	ICV29	1	1003	HG
ICB29	ICB29	1	1005	HG
CCV08	CCV08	1	1007	HG
CCB08	CCB08	1	1010	HG
CRA	CRA	1	1012	HG
PB168316BL	PB168316BL	1	1019	HG
PB168316BS	PB168316BS	1	1024	HG
Q2198-02	B-202-SB02	1	1033	HG
Q2198-04	B-207-SB02	1	1035	HG
CCV09	CCV09	1	1037	HG
CCB09	CCB09	1	1040	HG
CCV10	CCV10	1	1104	HG
CCB10	CCB10	1	1107	HG
Q2208-36DUP	BU-703-COMP-09DUP	1	1109	HG
Q2208-36MS	BU-703-COMP-09MS	1	1111	HG
Q2208-36MSD	BU-703-COMP-09MSD	1	1114	HG
CCV11	CCV11	1	1141	HG
CCB11	CCB11	1	1143	HG
CCV12	CCV12	1	1206	HG
CCB12	CCB12	1	1208	HG
PB168271TB	PB168271TB	1	1211	HG
Q2208-36L	BU-703-COMP-09L	5	1213	HG
CCV13	CCV13	1	1233	HG
CCB13	CCB13	1	1235	HG

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ANALYSIS RUN LOG

Client: Portal Partners Tri-Venture **Contract:** PORT06

Lab code: CHEM **Case no.:** Q2198 **Sas no.:** Q2198 **Sdg no.:** Q2198

Instrument id number: **Method:** **Run number:** LB136052

Start date: 06/06/2025 **End date:** 06/07/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1250	Ag,As,Ba,Cd,Cr,Pb,Se
S1	S1	1	1254	Ag,As,Ba,Cd,Cr,Pb,Se
S2	S2	1	1259	Ag,As,Ba,Cd,Cr,Pb,Se
S3	S3	1	1303	Ag,As,Ba,Cd,Cr,Pb,Se
S4	S4	1	1307	Ag,As,Ba,Cd,Cr,Pb,Se
S5	S5	1	1312	Ag,As,Ba,Cd,Cr,Pb,Se
ICV01	ICV01	1	1316	Ag,As,Ba,Cd,Cr,Pb,Se
LLICV01	LLICV01	1	1329	Ag,As,Ba,Cd,Cr,Pb,Se
ICB01	ICB01	1	1333	Ag,As,Ba,Cd,Cr,Pb,Se
CRI01	CRI01	1	1337	Ag,As,Ba,Cd,Cr,Pb,Se
ICSA01	ICSA01	1	1342	Ag,As,Ba,Cd,Cr,Pb,Se
ICSAB01	ICSAB01	1	1346	Ag,As,Ba,Cd,Cr,Pb,Se
CCV01	CCV01	1	1405	Ag,As,Ba,Cd,Cr,Pb,Se
CCB01	CCB01	1	1409	Ag,As,Ba,Cd,Cr,Pb,Se
PB168307BL	PB168307BL	1	1439	Ag,As,Ba,Cd,Cr,Pb,Se
PB168307BS	PB168307BS	1	1443	Ag,As,Ba,Cd,Cr,Pb,Se
CCV02	CCV02	1	1456	Ag,As,Ba,Cd,Cr,Pb,Se
CCB02	CCB02	1	1500	Ag,As,Ba,Cd,Cr,Pb,Se
PB168271TB	PB168271TB	1	1510	Ag,As,Ba,Cd,Cr,Pb,Se
Q2198-02	B-202-SB02	1	1528	Ag,As,Ba,Cd,Cr,Pb,Se
Q2198-04	B-207-SB02	1	1533	Ag,As,Ba,Cd,Cr,Pb,Se
CCV03	CCV03	1	1550	Ag,As,Ba,Cd,Cr,Pb,Se
CCB03	CCB03	1	1557	Ag,As,Ba,Cd,Cr,Pb,Se
CCV04	CCV04	1	1646	Ag,As,Ba,Cd,Cr,Pb,Se
CCB04	CCB04	1	1651	Ag,As,Ba,Cd,Cr,Pb,Se
CCV05	CCV05	1	1740	Ag,As,Ba,Cd,Cr,Pb,Se
CCB05	CCB05	1	1746	Ag,As,Ba,Cd,Cr,Pb,Se
CCV06	CCV06	1	0303	Ag,As,Ba,Cd,Cr,Pb,Se
CCB06	CCB06	1	0307	Ag,As,Ba,Cd,Cr,Pb,Se
CCV07	CCV07	1	0340	Ag,As,Ba,Cd,Cr,Pb,Se
CCB07	CCB07	1	0344	Ag,As,Ba,Cd,Cr,Pb,Se

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ANALYSIS RUN LOG

Client: Portal Partners Tri-Venture **Contract:** PORT06

Lab code: CHEM **Case no.:** Q2198 **Sas no.:** Q2198 **Sdg no.:** Q2198

Instrument id number: **Method:** **Run number:** LB136071

Start date: 06/09/2025 **End date:** 06/09/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1153	Ag,As,Ba,Cd,Cr,Pb,Se
S1	S1	1	1157	Ag,As,Ba,Cd,Cr,Pb,Se
S2	S2	1	1202	Ag,As,Ba,Cd,Cr,Pb,Se
S3	S3	1	1206	Ag,As,Ba,Cd,Cr,Pb,Se
S4	S4	1	1210	Ag,As,Ba,Cd,Cr,Pb,Se
S5	S5	1	1214	Ag,As,Ba,Cd,Cr,Pb,Se
ICV01	ICV01	1	1231	Ag,As,Ba,Cd,Cr,Pb,Se
LLICV01	LLICV01	1	1236	Ag,As,Ba,Cd,Cr,Pb,Se
ICB01	ICB01	1	1240	Ag,As,Ba,Cd,Cr,Pb,Se
CRI01	CRI01	1	1244	Ag,As,Ba,Cd,Cr,Pb,Se
ICSA01	ICSA01	1	1248	Ag,As,Ba,Cd,Cr,Pb,Se
ICSAB01	ICSAB01	1	1254	Ag,As,Ba,Cd,Cr,Pb,Se
CCV01	CCV01	1	1306	Ag,As,Ba,Cd,Cr,Pb,Se
CCB01	CCB01	1	1311	Ag,As,Ba,Cd,Cr,Pb,Se
Q2208-36DUP	BU-703-COMP-09DUP	1	1344	Ag,As,Ba,Cd,Cr,Pb,Se
Q2208-36L	BU-703-COMP-09L	5	1349	Ag,As,Ba,Cd,Cr,Pb,Se
CCV02	CCV02	1	1353	Ag,As,Ba,Cd,Cr,Pb,Se
CCB02	CCB02	1	1357	Ag,As,Ba,Cd,Cr,Pb,Se
Q2208-36MS	BU-703-COMP-09MS	1	1402	Ag,As,Ba,Cd,Cr,Pb,Se
Q2208-36MSD	BU-703-COMP-09MSD	1	1406	Ag,As,Ba,Cd,Cr,Pb,Se
CCV03	CCV03	1	1439	Ag,As,Ba,Cd,Cr,Pb,Se
CCB03	CCB03	1	1443	Ag,As,Ba,Cd,Cr,Pb,Se
CCV04	CCV04	1	1534	Ag,As,Ba,Cd,Cr,Pb,Se
CCB04	CCB04	1	1539	Ag,As,Ba,Cd,Cr,Pb,Se
CCV05	CCV05	1	1623	Ag,As,Ba,Cd,Cr,Pb,Se
CCB05	CCB05	1	1627	Ag,As,Ba,Cd,Cr,Pb,Se

METAL PREPARATION & INSTRUMENT DATA

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Metals
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ICP INTERELEMENT CORRECTION FACTORS

Client: Portal Partners Tri-Venture **SDG No.:** Q2198

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q2198 **SAS No.:** Q2198

Instrument ID: **Date:**

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave-Length (nm)	ICP Interelement Correction Factors For: Al	Ca	Fe	Mg	Ag
Arsenic	193.759	0.0000000	0.0000000	-0.0000440	0.0000000	0.0000000
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.502	0.0000000	0.0000000	0.0000930	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.353	-0.0000920	0.0000000	0.0000380	0.0000000	0.0000000
Selenium	196.090	0.0000000	0.0000000	-0.0001440	0.0000000	0.0000000
Silver	328.068	0.0000000	0.0000000	-0.0001490	0.0000000	0.0000000

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Metals
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ICP INTERELEMENT CORRECTION FACTORS

Client: Portal Partners Tri-Venture **SDG No.:** Q2198

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q2198 **SAS No.:** Q2198

Instrument ID: **Date:**

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave-Length (nm)	ICP Interelement Correction Factors For: As	Ba	Be	Cd	Co
Arsenic	193.759	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.502	0.0000000	0.0000000	0.0000000	0.0000000	0.0002870
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.353	0.0000000	0.0003170	0.0000000	0.0000000	0.0000000
Selenium	196.090	0.0000000	0.0000000	0.0000000	0.0000000	-0.0003570
Silver	328.068	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

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Metals
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ICP INTERELEMENT CORRECTION FACTORS

Client: Portal Partners Tri-Venture **SDG No.:** Q2198

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q2198 **SAS No.:** Q2198

Instrument ID: **Date:**

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave-Length (nm)	ICP Interelement Correction Factors For: Cr	Cu	K	Mn	Mo
Arsenic	193.759	-0.0029000	0.0000000	0.0000000	0.0000000	0.0004900
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.502	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000070	0.0002200	0.0000000
Lead	220.353	0.0000000	0.0000000	0.0000000	0.0001400	-0.0008600
Selenium	196.090	0.0000000	0.0000000	0.0000000	0.0007460	0.0000000
Silver	328.068	0.0000000	0.0000000	0.0000000	0.0000000	-0.0000120

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Metals
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ICP INTERELEMENT CORRECTION FACTORS

Client: Portal Partners Tri-Venture **SDG No.:** Q2198

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q2198 **SAS No.:** Q2198

Instrument ID: **Date:**

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave-Length (nm)	ICP Interelement Correction Factors For: Na	Ni	Pb	Sb	Se
Arsenic	193.759	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.502	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.353	0.0000000	0.0006580	0.0000000	0.0000000	0.0001290
Selenium	196.090	0.0000000	0.0000000	0.0003330	0.0000000	0.0000000
Silver	328.068	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

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Metals
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ICP INTERELEMENT CORRECTION FACTORS

Client: Portal Partners Tri-Venture **SDG No.:** Q2198

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q2198 **SAS No.:** Q2198

Instrument ID: **Date:**

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave-Length (nm)	ICP Interelement Correction Factors For: Sn	Ti	Tl	V	Zn
Arsenic	193.759	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.502	0.0000000	0.0000630	0.0001280	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0001110	0.0000000
Lead	220.353	0.0000000	-0.0003610	0.0000000	0.0000000	0.0000000
Selenium	196.090	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.068	0.0000000	-0.0007420	0.0000000	0.0000000	0.0000000

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LAB CHRONICLE

OrderID:	Q2198	**OrderDate:**	6/3/2025 2:31:00 PM
Client:	Portal Partners Tri-Venture	**Project:**	Amtrak Sawtooth Bridges 2025
Contact:	Joseph Krupansky	**Location:**	N22,VOA Ref. #2 Soil,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2198-01	**B-202-SB02**	**SOIL**			**05/31/25**			**06/03/25**
			Mercury	7471B		06/04/25	06/04/25	
			Metals ICP-TAL	6010D		06/04/25	06/05/25	
Q2198-02	**B-202-SB02**	**TCLP**			**05/31/25**			**06/03/25**
			TCLP ICP Metals	6010D		06/05/25	06/06/25	
			TCLP Mercury	7470A		06/05/25	06/06/25	
Q2198-03	**B-207-SB02**	**SOIL**			**06/01/25**			**06/03/25**
			Mercury	7471B		06/04/25	06/04/25	
			Metals ICP-TAL	6010D		06/04/25	06/05/25	
Q2198-04	**B-207-SB02**	**TCLP**			**06/01/25**			**06/03/25**
			TCLP ICP Metals	6010D		06/05/25	06/06/25	
			TCLP Mercury	7470A		06/05/25	06/06/25	
Q2198-05	**B-202-GW01**	**Water**			**05/31/25**			**06/03/25**
			Metals ICP-TAL	6010D		06/04/25	06/04/25	
			Mercury	7470A		06/05/25	06/06/25	

METAL PREPARATION & ANALYICAL SUMMARY

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Metals
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SAMPLE PREPARATION SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q2198

Contract: PORT06 **Lab Code:** CHEM **Method:**

Case No.: Q2198 **SAS No.:** Q2198

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(mL)	Final Sample Volume (mL)	Percent Solids
Batch Number:	**PB168307**						
PB168271TB	PB168271TB	MB	WATER	06/05/2025	5.0	25.0	
PB168307BL	PB168307BL	MB	WATER	06/05/2025	5.0	25.0	
PB168307BS	PB168307BS	LCS	WATER	06/05/2025	5.0	25.0	
Q2198-02	B-202-SB02	SAM	WATER	06/05/2025	5.0	25.0	
Q2198-04	B-207-SB02	SAM	WATER	06/05/2025	5.0	25.0	
Q2208-36DUP	BU-703-COMP-09DUP	DUP	WATER	06/05/2025	5.0	25.0	
Q2208-36MS	BU-703-COMP-09MS	MS	WATER	06/05/2025	5.0	25.0	
Q2208-36MSD	BU-703-COMP-09MSD	MSD	WATER	06/05/2025	5.0	25.0	

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Metals
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SAMPLE PREPARATION SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q2198

Contract: PORT06 **Lab Code:** CHEM **Method:**

Case No.: Q2198 **SAS No.:** Q2198

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(mL)	Final Sample Volume (mL)	Percent Solids
Batch Number:	**PB168316**						
PB168271TB	PB168271TB	MB	WATER	06/05/2025	3.0	30.0	
PB168316BL	PB168316BL	MB	WATER	06/05/2025	30.0	30.0	
PB168316BS	PB168316BS	LCS	WATER	06/05/2025	30.0	30.0	
Q2198-02	B-202-SB02	SAM	WATER	06/05/2025	3.0	30.0	
Q2198-04	B-207-SB02	SAM	WATER	06/05/2025	3.0	30.0	
Q2208-36DUP	BU-703-COMP-09DUP	DUP	WATER	06/05/2025	3.0	30.0	
Q2208-36MS	BU-703-COMP-09MS	MS	WATER	06/05/2025	3.0	30.0	
Q2208-36MSD	BU-703-COMP-09MSD	MSD	WATER	06/05/2025	3.0	30.0	

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Instrument ID: CV1

Daily Analysis Runlog For Sequence/QCBatch ID # LB136036

Review By	MOHAN	Review On	6/6/2025 7:12:22 PM
Supervise By	jaswal	Supervise On	6/6/2025 7:13:44 PM

STD. NAME	STD REF.#
ICAL Standard	MP85899,MP8590,MP85901,MP85902,MP85903,MP85904
ICV Standard	MP85905
CCV Standard	MP85907
ICSA Standard	
CRI Standard	MP85909
LCS Standard	
Chk Standard	MP85906,MP85908,MP8591410,MP859

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	06/06/25 09:48		MOHAN	OK
2	S0.2	S0.2	CAL2	06/06/25 09:50		MOHAN	OK
3	S2.5	S2.5	CAL3	06/06/25 09:53		MOHAN	OK
4	S5	S5	CAL4	06/06/25 09:55		MOHAN	OK
5	S7.5	S7.5	CAL5	06/06/25 09:57		MOHAN	OK
6	S10	S10	CAL6	06/06/25 10:00		MOHAN	OK
7	ICV29	ICV29	ICV	06/06/25 10:03		MOHAN	OK
8	ICB29	ICB29	ICB	06/06/25 10:05		MOHAN	OK
9	CCV08	CCV08	CCV	06/06/25 10:07		MOHAN	OK
10	CCB08	CCB08	CCB	06/06/25 10:10		MOHAN	OK
11	CRA	CRA	CRDL	06/06/25 10:12		MOHAN	OK
12	HighStd	HighStd	HIGH STD	06/06/25 10:14		MOHAN	OK
13	ChkStd	ChkStd	SAM	06/06/25 10:16		MOHAN	OK
14	PB168316BL	PB168316BL	MB	06/06/25 10:19		MOHAN	OK
15	PB168316BS	PB168316BS	LCS	06/06/25 10:24		MOHAN	OK
16	Q2192-01	SB-1	SAM	06/06/25 10:26		MOHAN	OK
17	Q2194-02	COMP-12	SAM	06/06/25 10:28		MOHAN	OK
18	Q2194-04	COMP-13	SAM	06/06/25 10:31		MOHAN	OK

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Instrument ID: CV1

Daily Analysis Runlog For Sequence/QCBatch ID # LB136036

Review By	MOHAN	Review On	6/6/2025 7:12:22 PM
Supervise By	jaswal	Supervise On	6/6/2025 7:13:44 PM

STD. NAME	STD REF.#
ICAL Standard	MP85899,MP8590,MP85901,MP85902,MP85903,MP85904
ICV Standard	MP85905
CCV Standard	MP85907
ICSA Standard	
CRI Standard	MP85909
LCS Standard	
Chk Standard	MP85906,MP85908,MP8591410,MP859

19	Q2198-02	B-202-SB02	SAM	06/06/25 10:33		MOHAN	OK
20	Q2198-04	B-207-SB02	SAM	06/06/25 10:35		MOHAN	OK
21	CCV09	CCV09	CCV	06/06/25 10:37		MOHAN	OK
22	CCB09	CCB09	CCB	06/06/25 10:40		MOHAN	OK
23	Q2206-04	TP-1	SAM	06/06/25 10:42		MOHAN	OK
24	Q2207-09	BU-703-COMP-01	SAM	06/06/25 10:44		MOHAN	OK
25	Q2207-18	BU-703-COMP-02	SAM	06/06/25 10:46		MOHAN	OK
26	Q2207-27	BU-703-COMP-03	SAM	06/06/25 10:49		MOHAN	OK
27	Q2207-36	BU-703-COMP-04	SAM	06/06/25 10:51		MOHAN	OK
28	Q2207-45	BU-703-COMP-05	SAM	06/06/25 10:53		MOHAN	OK
29	Q2208-09	BU-703-COMP-06	SAM	06/06/25 10:55		MOHAN	OK
30	Q2208-18	BU-703-COMP-07	SAM	06/06/25 10:58		MOHAN	OK
31	Q2208-27	BU-703-COMP-08	SAM	06/06/25 11:00		MOHAN	OK
32	Q2208-36	BU-703-COMP-09	SAM	06/06/25 11:02		MOHAN	OK
33	CCV10	CCV10	CCV	06/06/25 11:04		MOHAN	OK
34	CCB10	CCB10	CCB	06/06/25 11:07		MOHAN	OK
35	Q2208-36DUP	BU-703-COMP-09DU	DUP	06/06/25 11:09		MOHAN	OK
36	Q2208-36MS	BU-703-COMP-09MS	MS	06/06/25 11:11		MOHAN	OK
37	Q2208-36MSD	BU-703-COMP-09MS	MSD	06/06/25 11:14		MOHAN	OK
38	PB168317BL	PB168317BL	MB	06/06/25 11:16		MOHAN	OK

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Instrument ID: CV1

Daily Analysis Runlog For Sequence/QCBatch ID # LB136036

Review By	MOHAN	Review On	6/6/2025 7:12:22 PM
Supervise By	jaswal	Supervise On	6/6/2025 7:13:44 PM

STD. NAME	STD REF.#
ICAL Standard	MP85899,MP8590,MP85901,MP85902,MP85903,MP85904
ICV Standard	MP85905
CCV Standard	MP85907
ICSA Standard	
CRI Standard	MP85909
LCS Standard	
Chk Standard	MP85906,MP85908,MP8591410,MP859

39	PB168317BS	PB168317BS	LCS	06/06/25 11:21		MOHAN	OK
40	Q2175-09DL	52725DL	SAM	06/06/25 11:23	10X for Straight dilution	MOHAN	OK
41	Q2198-05	B-202-GW01	SAM	06/06/25 11:25		MOHAN	OK
42	Q2210-01	TW1	SAM	06/06/25 11:28		MOHAN	OK
43	Q2216-02	3887	SAM	06/06/25 11:30		MOHAN	OK
44	Q2216-02DUP	3887DUP	DUP	06/06/25 11:32		MOHAN	OK
45	CCV11	CCV11	CCV	06/06/25 11:41		MOHAN	OK
46	CCB11	CCB11	CCB	06/06/25 11:43		MOHAN	OK
47	Q2216-02MS	3887MS	MS	06/06/25 11:48		MOHAN	OK
48	Q2216-02MSD	3887MSD	MSD	06/06/25 11:50		MOHAN	OK
49	Q2216-03	3888	SAM	06/06/25 11:52		MOHAN	OK
50	Q2216-04	3864	SAM	06/06/25 11:55		MOHAN	OK
51	Q2216-05	3865	SAM	06/06/25 11:57		MOHAN	OK
52	Q2216-06	3851	SAM	06/06/25 11:59		MOHAN	OK
53	Q2218-03	3309	SAM	06/06/25 12:01		MOHAN	OK
54	Q2221-02	34900	SAM	06/06/25 12:04		MOHAN	OK
55	CCV12	CCV12	CCV	06/06/25 12:06		MOHAN	OK
56	CCB12	CCB12	CCB	06/06/25 12:08		MOHAN	OK
57	PB168271TB	PB168271TB	MB	06/06/25 12:11		MOHAN	OK
58	Q2208-36L	BU-703-COMP-09L	SD	06/06/25 12:13		MOHAN	OK

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Instrument ID: CV1

Daily Analysis Runlog For Sequence/QCBatch ID # LB136036

Review By	MOHAN	Review On	6/6/2025 7:12:22 PM
Supervise By	jaswal	Supervise On	6/6/2025 7:13:44 PM

STD. NAME	STD REF.#
ICAL Standard	MP85899,MP8590,MP85901,MP85902,MP85903,MP85904
ICV Standard	MP85905
CCV Standard	MP85907
ICSA Standard	
CRI Standard	MP85909
LCS Standard	
Chk Standard	MP85906,MP85908,MP8591410,MP859

59	Q2208-36A	BU-703-COMP-09A	PS	06/06/25 12:20		MOHAN	OK
60	Q2216-02L	3887L	SD	06/06/25 12:22		MOHAN	OK
61	Q2216-02A	3887A	PS	06/06/25 12:24		MOHAN	OK
62	CCV13	CCV13	CCV	06/06/25 12:33		MOHAN	OK
63	CCB13	CCB13	CCB	06/06/25 12:35		MOHAN	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB136052

Review By	Janvi	Review On	6/9/2025 3:49:01 PM
Supervise By	jaswal	Supervise On	6/10/2025 4:57:27 PM

STD. NAME	STD REF.#
ICAL Standard	MP85867,MP85897,MP85871,MP85870,MP85869,MP85868
ICV Standard	MP85872
CCV Standard	MP85875
ICSA Standard	MP85873,MP85874
CRI Standard	MP85897
LCS Standard	
Chk Standard	MP85876,MP85877

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	06/06/25 12:50		Jaswal	OK
2	S1	S1	CAL2	06/06/25 12:54		Jaswal	OK
3	S2	S2	CAL3	06/06/25 12:59		Jaswal	OK
4	S3	S3	CAL4	06/06/25 13:03		Jaswal	OK
5	S4	S4	CAL5	06/06/25 13:07		Jaswal	OK
6	S5	S5	CAL6	06/06/25 13:12		Jaswal	OK
7	ICV01	ICV01	ICV	06/06/25 13:16		Jaswal	OK
8	LLICV01	LLICV01	LLICV	06/06/25 13:29		Jaswal	OK
9	ICB01	ICB01	ICB	06/06/25 13:33		Jaswal	OK
10	CRI01	CRI01	CRDL	06/06/25 13:37		Jaswal	OK
11	ICSA01	ICSA01	ICSA	06/06/25 13:42		Jaswal	OK
12	ICSAB01	ICSAB01	ICSAB	06/06/25 13:46		Jaswal	OK
13	ICSADL	ICSADL	ICSA	06/06/25 13:50		Jaswal	OK
14	ICSABDL	ICSABDL	ICSAB	06/06/25 13:54		Jaswal	OK
15	CCV01	CCV01	CCV	06/06/25 14:05		Jaswal	OK
16	CCB01	CCB01	CCB	06/06/25 14:09		Jaswal	OK
17	PB168279BL	PB168279BL	MB	06/06/25 14:13		Jaswal	OK
18	PB168279BS	PB168279BS	LCS	06/06/25 14:18		Jaswal	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB136052

Review By	Janvi	Review On	6/9/2025 3:49:01 PM
Supervise By	jaswal	Supervise On	6/10/2025 4:57:27 PM

STD. NAME	STD REF.#
ICAL Standard	MP85867,MP85897,MP85871,MP85870,MP85869,MP85868
ICV Standard	MP85872
CCV Standard	MP85875
ICSA Standard	MP85873,MP85874
CRI Standard	MP85897
LCS Standard	
Chk Standard	MP85876,MP85877

19	PB168284BL	PB168284BL	MB	06/06/25 14:22		Jaswal	OK
20	PB168284BS	PB168284BS	LCS	06/06/25 14:26		Jaswal	OK
21	PB168302BL	PB168302BL	MB	06/06/25 14:30		Jaswal	OK
22	PB168302BS	PB168302BS	LCS	06/06/25 14:35		Jaswal	OK
23	PB168307BL	PB168307BL	MB	06/06/25 14:39		Jaswal	OK
24	PB168307BS	PB168307BS	LCS	06/06/25 14:43		Jaswal	OK
25	Q2237-02	TW-WTS-10	SAM	06/06/25 14:47		Jaswal	OK
26	PB168291BL	PB168291BL	MB	06/06/25 14:52		Jaswal	OK
27	CCV02	CCV02	CCV	06/06/25 14:56		Jaswal	OK
28	CCB02	CCB02	CCB	06/06/25 15:00		Jaswal	OK
29	PB168291BS	PB168291BS	LCS	06/06/25 15:06		Jaswal	OK
30	PB168271TB	PB168271TB	MB	06/06/25 15:10		Jaswal	OK
31	Q2192-01	SB-1	SAM	06/06/25 15:15		Jaswal	OK
32	Q2194-02	COMP-12	SAM	06/06/25 15:19		Jaswal	OK
33	Q2194-04	COMP-13	SAM	06/06/25 15:24		Jaswal	OK
34	Q2198-02	B-202-SB02	SAM	06/06/25 15:28		Jaswal	OK
35	Q2198-04	B-207-SB02	SAM	06/06/25 15:33		Jaswal	OK
36	Q2206-04	TP-1	SAM	06/06/25 15:37		Jaswal	OK
37	Q2207-09	BU-703-COMP-01	SAM	06/06/25 15:41		Jaswal	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB136052

Review By	Janvi	Review On	6/9/2025 3:49:01 PM
Supervise By	jaswal	Supervise On	6/10/2025 4:57:27 PM

STD. NAME	STD REF.#
ICAL Standard	MP85867,MP85897,MP85871,MP85870,MP85869,MP85868
ICV Standard	MP85872
CCV Standard	MP85875
ICSA Standard	MP85873,MP85874
CRI Standard	MP85897
LCS Standard	
Chk Standard	MP85876,MP85877

38	Q2207-18	BU-703-COMP-02	SAM	06/06/25 15:46		Jaswal	OK
39	CCV03	CCV03	CCV	06/06/25 15:50		Jaswal	OK
40	CCB03	CCB03	CCB	06/06/25 15:57		Jaswal	OK
41	Q2207-27	BU-703-COMP-03	SAM	06/06/25 16:01		Jaswal	OK
42	Q2207-36	BU-703-COMP-04	SAM	06/06/25 16:10		Jaswal	OK
43	Q2207-45	BU-703-COMP-05	SAM	06/06/25 16:15		Jaswal	OK
44	Q2208-09	BU-703-COMP-06	SAM	06/06/25 16:19		Jaswal	OK
45	Q2208-18	BU-703-COMP-07	SAM	06/06/25 16:24		Jaswal	OK
46	Q2208-27	BU-703-COMP-08	SAM	06/06/25 16:28		Jaswal	OK
47	Q2208-36	BU-703-COMP-09	SAM	06/06/25 16:33	Not Use	Jaswal	Not Ok
48	Q2206-01	TP-1	SAM	06/06/25 16:37		Jaswal	OK
49	Q2207-01	BU-703-COMP-01	SAM	06/06/25 16:41		Jaswal	OK
50	CCV04	CCV04	CCV	06/06/25 16:46		Jaswal	OK
51	CCB04	CCB04	CCB	06/06/25 16:51		Jaswal	OK
52	Q2207-10	BU-703-COMP-02	SAM	06/06/25 16:55		Jaswal	OK
53	Q2207-19	BU-703-COMP-03	SAM	06/06/25 16:59		Jaswal	OK
54	Q2207-28	BU-703-COMP-04	SAM	06/06/25 17:03		Jaswal	OK
55	Q2207-37	BU-703-COMP-05	SAM	06/06/25 17:11		Jaswal	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB136052

Review By	Janvi	Review On	6/9/2025 3:49:01 PM
Supervise By	jaswal	Supervise On	6/10/2025 4:57:27 PM

STD. NAME	STD REF.#
ICAL Standard	MP85867,MP85897,MP85871,MP85870,MP85869,MP85868
ICV Standard	MP85872
CCV Standard	MP85875
ICSA Standard	MP85873,MP85874
CRI Standard	MP85897
LCS Standard	
Chk Standard	MP85876,MP85877

56	Q2208-01	BU-703-COMP-06	SAM	06/06/25 17:15		Jaswal	OK
57	Q2208-10	BU-703-COMP-07	SAM	06/06/25 17:19		Jaswal	OK
58	Q2208-19	BU-703-COMP-08	SAM	06/06/25 17:23		Jaswal	OK
59	Q2208-28	BU-703-COMP-09	SAM	06/06/25 17:28		Jaswal	OK
60	Q2218-01	72-11934	SAM	06/06/25 17:32		Jaswal	OK
61	Q2218-03DL	3309DL	SAM	06/06/25 17:36	Test not on log in page	Jaswal	Not Ok
62	CCV05	CCV05	CCV	06/06/25 17:40		Jaswal	OK
63	CCB05	CCB05	CCB	06/06/25 17:46		Jaswal	OK
64	Q2223-01	HR-01-06042025	SAM	06/06/25 17:51	CCV06 Fail For Many parameters	Jaswal	Not Ok
65	Q2223-03	HR-04-06042025	SAM	06/06/25 17:55	CCV06 Fail For Many parameters	Jaswal	Not Ok
66	Q2225-01	SU-03-06042025	SAM	06/06/25 17:59	CCV06 Fail For Many parameters	Jaswal	Not Ok
67	Q2226-01	TP06-MHI-WC	SAM	06/06/25 18:03	CCV06 Fail For Many parameters	Jaswal	Not Ok
68	Q2227-01	TP07-MHH-WC	SAM	06/06/25 18:07	CCV06 Fail For Many parameters	Jaswal	Not Ok
69	Q2228-01	TP08-MHI-WC	SAM	06/06/25 19:31	CCV06 Fail For Many parameters	Jaswal	Not Ok
70	Q2208-36DUP	BU-703-COMP-09DU	DUP	06/06/25 22:54	CCV06 Fail For Many parameters	Jaswal	Not Ok
71	Q2208-36L	BU-703-COMP-09L	SD	06/07/25 01:22	CCV06 Fail For Many parameters	Jaswal	Not Ok
72	Q2208-36MS	BU-703-COMP-09MS	MS	06/07/25 02:54	CCV06 Fail For Many parameters	Jaswal	Not Ok

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB136052

Review By	Janvi	Review On	6/9/2025 3:49:01 PM
Supervise By	jaswal	Supervise On	6/10/2025 4:57:27 PM

STD. NAME	STD REF.#
ICAL Standard	MP85867,MP85897,MP85871,MP85870,MP85869,MP85868
ICV Standard	MP85872
CCV Standard	MP85875
ICSA Standard	MP85873,MP85874
CRI Standard	MP85897
LCS Standard	
Chk Standard	MP85876,MP85877

73	CCV06	CCV06	CCV	06/07/25 03:03		Jaswal	OK
74	CCB06	CCB06	CCB	06/07/25 03:07		Jaswal	OK
75	Q2208-36MSD	BU-703-COMP-09MS	MSD	06/07/25 03:11	CCV06,07 Fail For Many parameters	Jaswal	Not Ok
76	Q2208-36A	BU-703-COMP-09A	PS	06/07/25 03:15	CCV06,07 Fail For Many parameters	Jaswal	Not Ok
77	Q2226-01DUP	TP06-MHI-WCDUP	DUP	06/07/25 03:20	CCV06,07 Fail For Many parameters	Jaswal	Not Ok
78	Q2226-01L	TP06-MHI-WCL	SD	06/07/25 03:24	CCV06,07 Fail For Many parameters	Jaswal	Not Ok
79	Q2226-01MS	TP06-MHI-WCMS	MS	06/07/25 03:28	CCV06,07 Fail For Many parameters	Jaswal	Not Ok
80	Q2226-01MSD	TP06-MHI-WCMSD	MSD	06/07/25 03:32	CCV06,07 Fail For Many parameters	Jaswal	Not Ok
81	Q2226-01A	TP06-MHI-WCA	PS	06/07/25 03:36	CCV06,07 Fail For Many parameters	Jaswal	Not Ok
82	CCV07	CCV07	CCV	06/07/25 03:40		Jaswal	OK
83	CCB07	CCB07	CCB	06/07/25 03:44		Jaswal	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB136071

Review By	jaswal	Review On	6/10/2025 4:59:52 PM
Supervise By	MOHAN	Supervise On	6/10/2025 5:04:40 PM

STD. NAME	STD REF.#
ICAL Standard	MP85867,MP85897,MP85871,MP85870,MP85869,MP85868
ICV Standard	MP85872,MP85897
CCV Standard	MP85875
ICSA Standard	MP85873,MP85874
CRI Standard	MP85897
LCS Standard	
Chk Standard	MP85876,MP85877

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	06/09/25 11:53		Jaswal	OK
2	S1	S1	CAL2	06/09/25 11:57		Jaswal	OK
3	S2	S2	CAL3	06/09/25 12:02		Jaswal	OK
4	S3	S3	CAL4	06/09/25 12:06		Jaswal	OK
5	S4	S4	CAL5	06/09/25 12:10		Jaswal	OK
6	S5	S5	CAL6	06/09/25 12:14		Jaswal	OK
7	ICV01	ICV01	ICV	06/09/25 12:31		Jaswal	OK
8	LLICV01	LLICV01	LLICV	06/09/25 12:36		Jaswal	OK
9	ICB01	ICB01	ICB	06/09/25 12:40		Jaswal	OK
10	CRI01	CRI01	CRDL	06/09/25 12:44		Jaswal	OK
11	ICSA01	ICSA01	ICSA	06/09/25 12:48		Jaswal	OK
12	ICSAB01	ICSAB01	ICSAB	06/09/25 12:54		Jaswal	OK
13	ICSADL	ICSADL	ICSA	06/09/25 12:58		Jaswal	OK
14	ICSABDL	ICSABDL	ICSAB	06/09/25 13:02		Jaswal	OK
15	CCV01	CCV01	CCV	06/09/25 13:06		Jaswal	OK
16	CCB01	CCB01	CCB	06/09/25 13:11		Jaswal	OK
17	Q2223-01	HR-01-06042025	SAM	06/09/25 13:15		Jaswal	OK
18	Q2223-03	HR-04-06042025	SAM	06/09/25 13:19		Jaswal	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB136071

Review By	jaswal	Review On	6/10/2025 4:59:52 PM
Supervise By	MOHAN	Supervise On	6/10/2025 5:04:40 PM

STD. NAME	STD REF.#
ICAL Standard	MP85867,MP85897,MP85871,MP85870,MP85869,MP85868
ICV Standard	MP85872,MP85897
CCV Standard	MP85875
ICSA Standard	MP85873,MP85874
CRI Standard	MP85897
LCS Standard	
Chk Standard	MP85876,MP85877

19	Q2225-01	SU-03-06042025	SAM	06/09/25 13:23		Jaswal	OK
20	Q2226-01	TP06-MHI-WC	SAM	06/09/25 13:27		Jaswal	OK
21	Q2227-01	TP07-MHH-WC	SAM	06/09/25 13:31		Jaswal	OK
22	Q2228-01	TP08-MHI-WC	SAM	06/09/25 13:36		Jaswal	OK
23	Q2208-36	BU-703-COMP-09	SAM	06/09/25 13:40		Jaswal	OK
24	Q2208-36DUP	BU-703-COMP-09DU	DUP	06/09/25 13:44		Jaswal	OK
25	Q2208-36L	BU-703-COMP-09L	SD	06/09/25 13:49		Jaswal	OK
26	CCV02	CCV02	CCV	06/09/25 13:53		Jaswal	OK
27	CCB02	CCB02	CCB	06/09/25 13:57		Jaswal	OK
28	Q2208-36MS	BU-703-COMP-09MS	MS	06/09/25 14:02		Jaswal	OK
29	Q2208-36MSD	BU-703-COMP-09MS	MSD	06/09/25 14:06		Jaswal	OK
30	Q2208-36A	BU-703-COMP-09A	PS	06/09/25 14:10	0.1ML M6004,M6013	Jaswal	OK
31	Q2226-01DUP	TP06-MHI-WCDUP	DUP	06/09/25 14:14		Jaswal	OK
32	Q2226-01L	TP06-MHI-WCL	SD	06/09/25 14:18		Jaswal	OK
33	Q2226-01MS	TP06-MHI-WCMS	MS	06/09/25 14:22		Jaswal	OK
34	Q2226-01MSD	TP06-MHI-WCMSD	MSD	06/09/25 14:26		Jaswal	OK
35	Q2226-01A	TP06-MHI-WCA	PS	06/09/25 14:30	0.1ML M6004,M6013	Jaswal	OK
36	PB168311TB	PB168311TB	MB	06/09/25 14:34		Jaswal	OK
37	CCV03	CCV03	CCV	06/09/25 14:39		Jaswal	OK
38	CCB03	CCB03	CCB	06/09/25 14:43		Jaswal	OK

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB136071

Review By	jaswal	Review On	6/10/2025 4:59:52 PM
Supervise By	MOHAN	Supervise On	6/10/2025 5:04:40 PM

STD. NAME	STD REF.#
ICAL Standard	MP85867,MP85897,MP85871,MP85870,MP85869,MP85868
ICV Standard	MP85872,MP85897
CCV Standard	MP85875
ICSA Standard	MP85873,MP85874
CRI Standard	MP85897
LCS Standard	
Chk Standard	MP85876,MP85877

39	Q2226-04	TP06-MHI-WC	SAM	06/09/25 14:47		Jaswal	OK
40	Q2227-04	TP07-MHH-WC	SAM	06/09/25 14:52		Jaswal	OK
41	Q2228-04	TP08-MHI-WC	SAM	06/09/25 14:56		Jaswal	OK
42	Q2235-03	WC-A2-08-C	SAM	06/09/25 15:01		Jaswal	OK
43	Q2236-03	WC-A4-05A-C	SAM	06/09/25 15:05		Jaswal	OK
44	Q2236-07	WC-A2-04-C	SAM	06/09/25 15:10		Jaswal	OK
45	Q2236-11	WC-A2-05-C	SAM	06/09/25 15:15		Jaswal	OK
46	Q2236-15	WC-A2-06-C	SAM	06/09/25 15:20		Jaswal	OK
47	Q2236-19	WC-A2-07-C	SAM	06/09/25 15:24		Jaswal	OK
48	CCV04	CCV04	CCV	06/09/25 15:34		Jaswal	OK
49	CCB04	CCB04	CCB	06/09/25 15:39		Jaswal	OK
50	Q2240-04	TP-3	SAM	06/09/25 15:44		Jaswal	OK
51	Q2240-08	TP-2	SAM	06/09/25 15:48		Jaswal	OK
52	Q2240-12	TP-1	SAM	06/09/25 15:52		Jaswal	OK
53	Q2241-04	TP-N	SAM	06/09/25 15:57		Jaswal	OK
54	Q2241-08	TP-S	SAM	06/09/25 16:01		Jaswal	OK
55	Q2242-04	TP09-MHJ	SAM	06/09/25 16:06	NOT USE	Jaswal	Not Ok
56	Q2242-04DUP	TP09-MHJDUP	DUP	06/09/25 16:10	NOT USE	Jaswal	Not Ok
57	Q2242-04L	TP09-MHJL	SD	06/09/25 16:15	NOT USE	Jaswal	Not Ok
58	Q2242-04MS	TP09-MHJMS	MS	06/09/25 16:19	NOT USE	Jaswal	Not Ok

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Fax : 908 789 8922

Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB136071

Review By	jaswal	Review On	6/10/2025 4:59:52 PM
Supervise By	MOHAN	Supervise On	6/10/2025 5:04:40 PM

STD. NAME	STD REF.#
ICAL Standard	MP85867,MP85897,MP85871,MP85870,MP85869,MP85868
ICV Standard	MP85872,MP85897
CCV Standard	MP85875
ICSA Standard	MP85873,MP85874
CRI Standard	MP85897
LCS Standard	
Chk Standard	MP85876,MP85877

59	CCV05	CCV05	CCV	06/09/25 16:23		Jaswal	OK
60	CCB05	CCB05	CCB	06/09/25 16:27		Jaswal	OK

Alliance TECHNICAL GROUP

Water Metals Preparation Sheet

PB168307

SOP ID : M3010A-Digestion-17

SDG No : N/A

Matrix : WATER

Pippete ID: ICP A

Balance ID : N/A

Filter paper ID : N/A

pH Strip ID : M6069

Hood ID : #3

Block ID: 1. HOT BLOCK #3 2. N/A

Start Digest Date: 06/05/2025 **Time :** 12:30 **Temp :** 96 °C

End Digest Date: 06/05/2025 **Time :** 15:32 **Temp :** 96 °C

Digestion tube ID: M5595

Block thermometer ID: MET-DIG. #1

Dig Technician Signature: SLB.

Supervisor Signature:

Temp : 1. 96°C 2. N/A

Standared Name	MLS USED	STD REF. # FROM LOG
LFS-1	0.25	M6007
LFS-2	0.25	M6016
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
CONC: HNO3	3.00	M6158
1:1 HCL	5.00	MP85156
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

HOT BLOCK#1 CELL#50 96 C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
06/05/25 16:32	SLB. MCT. DIG	Metals Lab
	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

Water Metals Preparation Sheet

PB168307

Lab Sample ID	Client Sample ID	pH	Initial Vol (ml)	Final Vol (ml)	Color Before	Color After	Clarity Before	Clarity After	Comment	Prep Pos
PB168271TB	PB168271TB	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	13
PB168307BL	PBW307	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	14
PB168307BS	LCS307	<2	5	25	Colorless	Colorless	Clear	Clear	M6007,M6016	15
Q2192-01	SB-1	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	16
Q2194-02	COMP-12	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	17
Q2194-04	COMP-13	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	18
Q2198-02	B-202-SB02	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	19
Q2198-04	B-207-SB01	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	20
Q2206-04	TP-1	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	21
Q2207-09	BU-703-COMP-01	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	22
Q2207-18	BU-703-COMP-02	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	23
Q2207-27	BU-703-COMP-03	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	24
Q2207-36	BU-703-COMP-04	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	25
Q2207-45	BU-703-COMP-05	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	26
Q2208-09	BU-703-COMP-06	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	27
Q2208-18	BU-703-COMP-07	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	28
Q2208-27	BU-703-COMP-08	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	29
Q2208-36	BU-703-COMP-09	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	30
Q2208-36MS	BU-703-COMP-09MS	<2	5	25	Colorless	Colorless	Clear	Clear	M6007,M6016	32
Q2208-36MSD	BU-703-COMP-09MSD	<2	5	25	Colorless	Colorless	Clear	Clear	M6007,M6016	33
Q2208-36DUP	BU-703-COMP-09DUP	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	31

Alliance TECHNICAL GROUP

Water Mercury Preparation Sheet

PB168316

SOP ID : M7470A-Mercury-20

SDG No : NA

Matrix : WATER

Pippete ID: HG A

Balance ID : N/A

Filter paper ID : NA

pH Strip ID : M6069

Hood ID : #1

Block ID: 1. HG HOT BLOCK#3 2. N/A

Start Digest Date: 06/05/2025 **Time :** 14:05 **Temp :** 95 °C

End Digest Date: 06/05/2025 **Time :** 16:05 **Temp :** 95 °C

Digestion tube ID: M5595

Block thermometer ID: HG-DIG#3

Dig Technician Signature: MB

Supervisor Signature: JC

Temp : 1. 95°C 2. N/A

Standared Name	MLS USED	STD REF. # FROM LOG
ICV	30mL	MP859
CCV	30mL	MP85907
CRA	30mL	MP85909
Blank Spike	0.48mL	MP85898
Matrix Spike	0.48mL	MP85898

Chemical Used	ML/SAMPLE USED	Lot Number
HNO3/H2SO4(1:2)	2.25mL	MP85892
KMnO4 (5%)	4.5mL	MP85893
K2S2O8 (5%)	2.4mL	MP85894
Hydroxylamine HCL (12%)	1.8mL	MP85895
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

LAB SAMPLE ID	CLIENT SAMPLE ID	Wt(g)/Vol(ml)	Comment
0.0 ppb	S0	30mL	MP85899
0.05 ppb	S0.05	N/A	N/A
0.2 ppb	S0.2	30mL	MP85900
2.5 ppb	S2.5	30mL	MP85901
5.0 ppb	S5.0	30mL	MP85902
7.5 ppb	S7.5	30mL	MP85903
10.0 ppb	S10.0	30mL	MP85904
ICV	ICV	30mL	MP85905
ICB	ICB	30mL	MP85906
CCV	CCV	30mL	MP85907
CCB	CCB	30mL	MP85908
CRI	CRI	30mL	MP85909
CHK STD	CHK STD	30mL	MP85910

Extraction Conformance/Non-Conformance Comments:

N/A

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
6/5/25 @ 16:40	MB - Dig. Lab	MB - Metals Lab
	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

Water Mercury Preparation Sheet

PB168316

Lab Sample ID	Client Sample ID	Initial Vol (ml)	Final Vol (ml)	pH	Comment	Prep Pos
PB168271TB	PB168271TB	3	30	<2	N/A	3-1
PB168316BL	PBW316	30	30	<2	N/A	2
PB168316BS	LCS316	30	30	<2	MP85898	3
Q2192-01	SB-1	3	30	<2	N/A	4
Q2194-02	COMP-12	3	30	<2	N/A	5
Q2194-04	COMP-13	3	30	<2	N/A	6
Q2198-02	B-202-SB02	3	30	<2	N/A	7
Q2198-04	B-207-SB02	3	30	<2	N/A	8
Q2206-04	TP-1	3	30	<2	N/A	9
Q2207-09	BU-703-COMP-01	3	30	<2	N/A	10
Q2207-18	BU-703-COMP-02	3	30	<2	N/A	11
Q2207-27	BU-703-COMP-03	3	30	<2	N/A	12
Q2207-36	BU-703-COMP-04	3	30	<2	N/A	13
Q2207-45	BU-703-COMP-05	3	30	<2	N/A	14
Q2208-09	BU-703-COMP-06	3	30	<2	N/A	15
Q2208-18	BU-703-COMP-07	3	30	<2	N/A	16
Q2208-27	BU-703-COMP-08	3	30	<2	N/A	17
Q2208-36	BU-703-COMP-09	3	30	<2	N/A	18
Q2208-36DUP	BU-703-COMP-09DUP	3	30	<2	N/A	19
Q2208-36MS	BU-703-COMP-09MS	3	30	<2	MP85898	20
Q2208-36MSD	BU-703-COMP-09MSD	3	30	<2	MP85898	21

Alliance TECHNICAL GROUP

TCLP EXTRACTION LOGPAGE

PB168271

SOP ID : M1311-TCLP-16

SDG No : N/A

Weigh By : JP

Balance ID : WC SC-7

pH Meter ID : WC PH METER-1

Extraction By : JP

Filter By : JP

Pippete ID : WC

Tumbler ID : T-1 / T-2

TCLP Filter ID : 115525

Start Prep Date : 06/04/2025 **Time :** 15:00

End Prep Date : 06/05/2025 **Time :** 09:20

Combination Ratio : 20

ZHE Cleaning Batch : N/A

Initial Room Temperature: 24 °C

Final Room Temperature: 22 °C

TCLP Technician Signature : JP

Supervisor By : JP

Standared Name	MLS USED	STD REF. # FROM LOG
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Chemical Used	ML/SAMPLE U	Lot Number
TCLP-FLUID-1	N/A	WP112795
HCL-TCLP,1N	N/A	WP112797
HNO3-TCLP,1N	N/A	WP112799
pH Strips	N/A	W1931,W1934,W3171,W3172
pH Strips	W1940,W1941,W1942	W3166,W1938,W1939,
1 Liter Amber	N/A	90924-08
120ml Plastic bottle	N/A	2738
1:1 HNO3	N/A	MP84041

Extraction Conformance/Non-Conformance Comments:

Matrix spikes are added after fiftration and before preservation. TUMBLER T-1 /T-2 checked,30 rpm. q2208-36 is used for MS-MSD.

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
06/05/25 11:30	JP ICP Room	JP RS 1 EXT
	Preparation Group	Analysis Group 1 2 4 1 2 4

Alliance TECHNICAL GROUP

TCLP EXTRACTION LOGPAGE

PB168271

Sample ID	ClientID	TCLP Vessel ID	Sample Wt (g)	Volume Extraction Fluid #1 (mL)	Multi phasic	Phase Miscible	Phases Combined	Final Leachate PH	Metals Leachate Adj. PH	Prep Pos
PB168271TB	LEB271	16	N/A	2000	N/A	N/A	N/A	4.94	1.0	T-2
Q2192-01	SB-1	01	100.02	2000	N/A	N/A	N/A	8.2	1.0	T-1
Q2194-02	COMP-12	02	100.03	2000	N/A	N/A	N/A	6.2	1.5	T-1
Q2194-04	COMP-13	03	100.02	2000	N/A	N/A	N/A	6.0	1.5	T-1
Q2198-02	B-202-SB02	04	100.03	2000	N/A	N/A	N/A	4.0	1.0	T-1
Q2198-04	~~B-207-SB01~~ B-207-SB02	05	100.02	2000	N/A	N/A	N/A	5.8	1.5	T-1
Q2206-04	TP-1 SB	06	100.02	2000	N/A	N/A	N/A	5.6	1.0	T-1
Q2207-09	BU-703-COMP-01 06-11-	07	100.03	2000	N/A	N/A	N/A	4.5	1.5	T-1
Q2207-18	BU-703-COMP-02 2025	08	100.04	2000	N/A	N/A	N/A	3.0	1.0	T-1
Q2207-27	BU-703-COMP-03	09	100.02	2000	N/A	N/A	N/A	3.0	1.5	T-1
Q2207-36	BU-703-COMP-04	10	100.03	2000	N/A	N/A	N/A	5.5	1.0	T-1
Q2207-45	BU-703-COMP-05	11	100.02	2000	N/A	N/A	N/A	3.0	1.5	T-2
Q2208-09	BU-703-COMP-06	12	100.03	2000	N/A	N/A	N/A	3.0	1.0	T-2
Q2208-18	BU-703-COMP-07	13	100.02	2000	N/A	N/A	N/A	3.0	1.5	T-2
Q2208-27	BU-703-COMP-08	14	100.01	2000	N/A	N/A	N/A	5.0	1.5	T-2
Q2208-36	BU-703-COMP-09	15	100.02	2000	N/A	N/A	N/A	5.6	1.0	T-2

Alliance TECHNICAL GROUP

TCLP Solid Determination

PB168271

SampleID	ClientID	Sample Weight (g)	Filter Weight (g)	Filtrate (mL)	Filter + Solid (After 100°C)	% solids	% Dry Solids
PB168271TB	LEB271	N/A	N/A	N/A	N/A	N/A	N/A
Q2192-01	SB-1	N/A	N/A	N/A	N/A	100	N/A
Q2194-02	COMP-12	N/A	N/A	N/A	N/A	100	N/A
Q2194-04	COMP-13	N/A	N/A	N/A	N/A	100	N/A
Q2198-02	B-202-SB02	N/A	N/A	N/A	N/A	100	N/A
Q2198-04	~~B-207-SB01~~ B-207-SB02	N/A	N/A	N/A	N/A	100	N/A
Q2206-04	TP-1	N/A	N/A	N/A	N/A	100	N/A
Q2207-09	BU-703-COMP-01	N/A	N/A	N/A	N/A	100	N/A
Q2207-18	BU-703-COMP-02	N/A	N/A	N/A	N/A	100	N/A
Q2207-27	BU-703-COMP-03	N/A	N/A	N/A	N/A	100	N/A
Q2207-36	BU-703-COMP-04	N/A	N/A	N/A	N/A	100	N/A
Q2207-45	BU-703-COMP-05	N/A	N/A	N/A	N/A	100	N/A
Q2208-09	BU-703-COMP-06	N/A	N/A	N/A	N/A	100	N/A
Q2208-18	BU-703-COMP-07	N/A	N/A	N/A	N/A	100	N/A
Q2208-27	BU-703-COMP-08	N/A	N/A	N/A	N/A	100	N/A
Q2208-36	BU-703-COMP-09	N/A	N/A	N/A	N/A	100	N/A

Alliance TECHNICAL GROUP

TCLP Fluid Determination

PB168271

Hot Block ID : WC S-1 / WC S-2

Thermometer ID : FLASHPOINT

SampleID	ClientID	Sample Weight (g)	Volume DI Water (mL)	PH after 5 min stir	PH after 10 min stir	Extraction Fluid 1 or 2	pH Extraction Fluid
PB168271TB	LEB271	N/A	N/A	N/A	N/A	#1	4.94
Q2192-01	SB-1	5.02	96.5	9.5	4.0	#1	4.94
Q2194-02	COMP-12	5.03	96.5	8.4	3.5	#1	4.94
Q2194-04	COMP-13	5.02	96.5	8.2	3.5	#1	4.94
Q2198-02	B-202-SB02	5.02	96.5	6.6	2.5	#1	4.94
Q2198-04	~~B-207-SB~~01 B-207-SB02	5.03	96.5	8.0	3.0	#1	4.94
Q2206-04	TP-1 JP	5.02	96.5	7.6	2.5	#1	4.94
Q2207-09	BU-703-COMP-01	5.03	96.5	7.0	2.0	#1	4.94
Q2207-18	BU-703-COMP-02 06-11-2025	5.02	96.5	5.5	1.5	#1	4.94
Q2207-27	BU-703-COMP-03	5.01	96.5	6.0	2.0	#1	4.94
Q2207-36	BU-703-COMP-04	5.02	96.5	7.2	2.0	#1	4.94
Q2207-45	BU-703-COMP-05	5.03	96.5	5.5	1.5	#1	4.94
Q2208-09	BU-703-COMP-06	5.02	96.5	5.6	2.0	#1	4.94
Q2208-18	BU-703-COMP-07	5.03	96.5	5.5	1.5	#1	4.94
Q2208-27	BU-703-COMP-08	5.02	96.5	6.0	2.0	#1	4.94
Q2208-36	BU-703-COMP-09	5.01	96.5	7.0	2.5	#1	4.94

SAMPLE DATA

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	05/31/25 16:55
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	06/03/25
Client Sample ID:	B-202-SB02	SDG No.:	Q2198
Lab Sample ID:	Q2198-01	Matrix:	SOIL
		% Solid:	71.9

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.
Hexavalent Chromium	0.095	U	1	0.095	0.55	mg/Kg	06/05/25 09:30	06/05/25 13:25	7196A
pH	6.61	H	1	0	0	pH		06/04/25 11:55	9045D
Trivalent Chromium	7.85		1	0.70	0.70	mg/Kg		06/05/25 20:37	6010D

Comments: pH result reported at temperature 22.1 °C

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements
H = Sample Analysis Out Of Hold Time

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	05/31/25 16:55
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	06/03/25
Client Sample ID:	B-202-SB02	SDG No.:	Q2198
Lab Sample ID:	Q2198-02	Matrix:	SOIL
		% Solid:	100

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Corrosivity	6.61	H	1	0	0	pH		06/04/25 11:55	9045D
Ignitability	NO		1	0	0	oC		06/04/25 10:07	1030
Reactive Cyanide	0.0084	U	1	0.0084	0.050	mg/Kg	06/05/25 08:50	06/05/25 13:44	9012B
Reactive Sulfide	3.19	J	1	0.20	10.0	mg/Kg	06/04/25 15:00	06/04/25 17:20	9034

Comments: pH result reported at temperature 22.1 °C

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements
H = Sample Analysis Out Of Hold Time

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	06/01/25 11:04
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	06/03/25
Client Sample ID:	B-207-SB02	SDG No.:	Q2198
Lab Sample ID:	Q2198-03	Matrix:	SOIL
		% Solid:	52.1

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.
Hexavalent Chromium	0.13	U	1	0.13	0.77	mg/Kg	06/05/25 09:30	06/05/25 13:26	7196A
pH	7.87	H	1	0	0	pH		06/04/25 12:00	9045D
Trivalent Chromium	27.8		1	0.96	0.96	mg/Kg		06/05/25 20:41	6010D

Comments: pH result reported at temperature 22.1 °C

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements
H = Sample Analysis Out Of Hold Time

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	06/01/25 11:04
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	06/03/25
Client Sample ID:	B-207-SB02	SDG No.:	Q2198
Lab Sample ID:	Q2198-04	Matrix:	SOIL
		% Solid:	100

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Corrosivity	7.87	H	1	0	0	pH		06/04/25 12:00	9045D
Ignitability	NO		1	0	0	oC		06/04/25 10:15	1030
Reactive Cyanide	0.0083	U	1	0.0083	0.050	mg/Kg	06/05/25 08:50	06/05/25 13:44	9012B
Reactive Sulfide	4.77	J	1	0.20	10.0	mg/Kg	06/04/25 15:00	06/04/25 17:22	9034

Comments: pH result reported at temperature 22.1 °C

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements
H = Sample Analysis Out Of Hold Time
J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	05/31/25 20:00
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	06/03/25
Client Sample ID:	B-202-GW01	SDG No.:	Q2198
Lab Sample ID:	Q2198-05	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Dissolved Hexavalent Chromium	0.0030	U	1	0.0030	0.010	mg/L		06/04/25 09:52	7196A
pH	6.42	H	1	0	0	pH		06/06/25 12:35	9040C
trivalent Chromium	0.060		1	0.010	0.010	mg/L		06/04/25 21:07	6010D

Comments: pH result reported at temperature 20.6 °C

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements
H = Sample Analysis Out Of Hold Time

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

QC RESULT SUMMARY

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Initial and Continuing Calibration Verification

Client:	Portal Partners Tri-Venture	**SDG No.:**	Q2198
Project:	Amtrak Sawtooth Bridges 2025	**RunNo.:**	LB136000

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: ICV						
Hexavalent Chromium	mg/L	0.508	0.5	102	90-110	06/04/2025
Sample ID: CCV1						
Hexavalent Chromium	mg/L	0.504	0.5	101	90-110	06/04/2025
Sample ID: CCV2						
Hexavalent Chromium	mg/L	0.503	0.5	101	90-110	06/04/2025

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Initial and Continuing Calibration Verification

Client:	Portal Partners Tri-Venture	**SDG No.:**	Q2198
Project:	Amtrak Sawtooth Bridges 2025	**RunNo.:**	LB136005

Analyte		Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID:	**ICV**						
Corrosivity		pH	7.02	7	100	90-110	06/04/2025
Sample ID:	**CCV1**						
Corrosivity		pH	2.01	2.00	101	90-110	06/04/2025
Sample ID:	**CCV2**						
Corrosivity		pH	12.01	12.00	100	90-110	06/04/2025
Sample ID:	**CCV3**						
Corrosivity		pH	2.01	2.00	101	90-110	06/04/2025

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Initial and Continuing Calibration Verification

Client:	Portal Partners Tri-Venture	**SDG No.:**	Q2198
Project:	Amtrak Sawtooth Bridges 2025	**RunNo.:**	LB136006

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: **ICV**						
pH	pH	7.02	7	100	90-110	06/04/2025
Sample ID: **CCV1**						
pH	pH	2.01	2.00	101	90-110	06/04/2025
Sample ID: **CCV2**						
pH	pH	12.02	12.00	100	90-110	06/04/2025

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Initial and Continuing Calibration Verification

Client:	Portal Partners Tri-Venture	**SDG No.:**	Q2198
Project:	Amtrak Sawtooth Bridges 2025	**RunNo.:**	LB136021

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: ICV1						
Reactive Cyanide	mg/L	0.1	0.099	101	85-115	06/05/2025
Sample ID: CCV1						
Reactive Cyanide	mg/L	0.25	0.25	100	90-110	06/05/2025
Sample ID: CCV2						
Reactive Cyanide	mg/L	0.25	0.25	100	90-110	06/05/2025
Sample ID: CCV3						
Reactive Cyanide	mg/L	0.25	0.25	100	90-110	06/05/2025
Sample ID: CCV4						
Reactive Cyanide	mg/L	0.25	0.25	100	90-110	06/05/2025

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Initial and Continuing Calibration Verification

Client:	Portal Partners Tri-Venture	**SDG No.:**	Q2198
Project:	Amtrak Sawtooth Bridges 2025	**RunNo.:**	LB136024

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: ICV						
Hexavalent Chromium	mg/L	0.493	0.5	99	90-110	06/05/2025
Sample ID: CCV1						
Hexavalent Chromium	mg/L	0.497	0.5	99	90-110	06/05/2025
Sample ID: CCV2						
Hexavalent Chromium	mg/L	0.495	0.5	99	90-110	06/05/2025
Sample ID: CCV3						
Hexavalent Chromium	mg/L	0.493	0.5	99	90-110	06/05/2025
Sample ID: CCV4						
Hexavalent Chromium	mg/L	0.495	0.5	99	90-110	06/05/2025

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Initial and Continuing Calibration Verification

Client:	Portal Partners Tri-Venture	**SDG No.:**	Q2198
Project:	Amtrak Sawtooth Bridges 2025	**RunNo.:**	LB136042

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: **ICV**						
pH	pH	7.01	7	100	90-110	06/06/2025
Sample ID: **CCV1**						
pH	pH	2.01	2.00	101	90-110	06/06/2025
Sample ID: **CCV2**						
pH	pH	12.02	12.00	100	90-110	06/06/2025

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Initial and Continuing Calibration Blank Summary

Client:	Portal Partners Tri-Venture	**SDG No.:**	Q2198
Project:	Amtrak Sawtooth Bridges 2025	**RunNo.:**	LB136000

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: ICB							
Hexavalent Chromium	mg/L	< 0.0050	0.0050	U	0.0029	0.01	06/04/2025
Sample ID: CCB1							
Hexavalent Chromium	mg/L	< 0.0050	0.0050	U	0.0029	0.01	06/04/2025
Sample ID: CCB2							
Hexavalent Chromium	mg/L	< 0.0050	0.0050	U	0.0029	0.01	06/04/2025

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Initial and Continuing Calibration Blank Summary

Client:	Portal Partners Tri-Venture	**SDG No.:**	Q2198
Project:	Amtrak Sawtooth Bridges 2025	**RunNo.:**	LB136021

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: ICB1							
Reactive Cyanide	mg/L	< 0.0025	0.0025	U	0.00096	0.005	06/05/2025
Sample ID: CCB1							
Reactive Cyanide	mg/L	< 0.0025	0.0025	U	0.00096	0.005	06/05/2025
Sample ID: CCB2							
Reactive Cyanide	mg/L	< 0.0025	0.0025	U	0.00096	0.005	06/05/2025
Sample ID: CCB3							
Reactive Cyanide	mg/L	< 0.0025	0.0025	U	0.00096	0.005	06/05/2025
Sample ID: CCB4							
Reactive Cyanide	mg/L	< 0.0025	0.0025	U	0.00096	0.005	06/05/2025

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Initial and Continuing Calibration Blank Summary

Client:	Portal Partners Tri-Venture	**SDG No.:**	Q2198
Project:	Amtrak Sawtooth Bridges 2025	**RunNo.:**	LB136024

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: CCB1							
Hexavalent Chromium	mg/L	< 0.0050	0.0050	U	0.0029	0.01	06/05/2025
Sample ID: CCB2							
Hexavalent Chromium	mg/L	< 0.0050	0.0050	U	0.0029	0.01	06/05/2025
Sample ID: CCB3							
Hexavalent Chromium	mg/L	< 0.0050	0.0050	U	0.0029	0.01	06/05/2025
Sample ID: CCB4							
Hexavalent Chromium	mg/L	< 0.0050	0.0050	U	0.0029	0.01	06/05/2025
Sample ID: ICB							
Hexavalent Chromium	mg/L	< 0.0050	0.0050	U	0.0029	0.01	06/05/2025

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Preparation Blank Summary

Client: Portal Partners Tri-Venture **SDG No.:** Q2198

Project: Amtrak Sawtooth Bridges 2025

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: LB136000BL							
Hexavalent Chromium	mg/L	< 0.0050	0.0050	U	0.003	0.01	06/04/2025
Sample ID: PB168265BL							
Hexavalent Chromium	mg/Kg	< 0.2000	0.2000	U	0.07	0.4	06/05/2025
Sample ID: PB168266BL							
Reactive Cyanide	mg/Kg	< 0.0250	0.0250	U	0.0084	0.05	06/05/2025
Sample ID: PB168267BL							
Reactive Sulfide	mg/Kg	< 5.0000	5.0000	U	0.201	10	06/04/2025

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Matrix Spike Summary

Client: Portal Partners Tri-Venture
SDG No.: Q2198
Project: Amtrak Sawtooth Bridges 2025
Sample ID: Q2185-01
Client ID: TP02-MHB-WCMS
Percent Solids for Spike Sample: 85.5

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Hexavalent Chromium	mg/Kg	75-125	1460		0.081	U	1500	40	97		06/05/2025

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Matrix Spike Summary

Client: Portal Partners Tri-Venture
SDG No.: Q2198
Project: Amtrak Sawtooth Bridges 2025
Sample ID: Q2185-01
Client ID: TP02-MHB-WCMS
Percent Solids for Spike Sample: 85.5

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Hexavalent Chromium	mg/Kg	85-115	45.5		0.081	U	46.8	2	97		06/05/2025

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Matrix Spike Summary

Client: Portal Partners Tri-Venture
SDG No.: Q2198
Project: Amtrak Sawtooth Bridges 2025
Sample ID: Q2185-01
Client ID: TP02-MHB-WCMS
Percent Solids for Spike Sample: 85.5

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Hexavalent Chromium	mg/Kg	75-125	36.5		0.081	U	46.8	2	78		06/05/2025

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Matrix Spike Summary

Client: Portal Partners Tri-Venture
SDG No.: Q2198
Project: Amtrak Sawtooth Bridges 2025
Sample ID: Q2198-05
Client ID: B-202-GW01MS
Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Hexavalent Chromium	mg/L	90-111	0.92		0.0030	U	1.0	2	92		06/04/2025

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Matrix Spike Summary

Client: Portal Partners Tri-Venture
SDG No.: Q2198
Project: Amtrak Sawtooth Bridges 2025
Sample ID: Q2198-05
Client ID: B-202-GW01MSD
Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Hexavalent Chromium	mg/L	90-111	0.93		0.0030	U	1.0	2	93		06/04/2025

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Duplicate Sample Summary

Client: Portal Partners Tri-Venture
Project: Amtrak Sawtooth Bridges 2025
Client ID: 32525DUP
SDG No.: Q2198
Sample ID: Q2175-01
Percent Solids for Spike Sample: 100

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
Ignitability	oC	+/-20	NO		NO		1	0		06/04/2025

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Duplicate Sample Summary

Client: Portal Partners Tri-Venture
Project: Amtrak Sawtooth Bridges 2025
Client ID: TP02-MHB-WCDUP
SDG No.: Q2198
Sample ID: Q2185-01
Percent Solids for Spike Sample: 85.5

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
Hexavalent Chromium	mg/Kg	+/-20	0.081	U	0.081	U	1	0		06/05/2025

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Duplicate Sample Summary

Client: Portal Partners Tri-Venture
SDG No.: Q2198
Project: Amtrak Sawtooth Bridges 2025
Sample ID: Q2185-04
Client ID: TP02-MHB-WCDUP
Percent Solids for Spike Sample: 100

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
Reactive Cyanide	mg/Kg	+/-20	0.0083	U	0.0083	U	1	0		06/05/2025
Reactive Sulfide	mg/Kg	+/-20	3.16	J	3.16	J	1	0		06/04/2025

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Duplicate Sample Summary

Client: Portal Partners Tri-Venture
SDG No.: Q2198
Project: Amtrak Sawtooth Bridges 2025
Sample ID: Q2198-01
Client ID: B-202-SB02DUP
Percent Solids for Spike Sample: 100

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
pH	pH	+/-20	6.61		6.62		1	0.15		06/04/2025

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Duplicate Sample Summary

Client: Portal Partners Tri-Venture
SDG No.: Q2198
Project: Amtrak Sawtooth Bridges 2025
Sample ID: Q2198-02
Client ID: B-202-SB02DUP
Percent Solids for Spike Sample: 100

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
Corrosivity	pH	+/-20	6.61		6.62		1	0.15		06/04/2025

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Duplicate Sample Summary

Client: Portal Partners Tri-Venture
SDG No.: Q2198
Project: Amtrak Sawtooth Bridges 2025
Sample ID: Q2198-05
Client ID: B-202-GW01DUP
Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
Hexavalent Chromium	mg/L	+/-20	0.0030	U	0.0030	U	1	0		06/04/2025
pH	pH	+/-20	6.42		6.43		1	0.16		06/06/2025

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Duplicate Sample Summary

Client: Portal Partners Tri-Venture
SDG No.: Q2198
Project: Amtrak Sawtooth Bridges 2025
Sample ID: Q2198-05
Client ID: B-202-GW01MSD
Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
Hexavalent Chromium	mg/L	+/-20	0.92		0.93		2	0.43		06/04/2025

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Laboratory Control Sample Summary

Client:	Portal Partners Tri-Venture	**SDG No.:**	Q2198
Project:	Amtrak Sawtooth Bridges 2025	**Run No.:**	LB136000

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID LB136000BS								
Hexavalent Chromium	mg/L	0.5	0.51		102	1	90-111	06/04/2025

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Laboratory Control Sample Summary

Client:	Portal Partners Tri-Venture	**SDG No.:**	Q2198
Project:	Amtrak Sawtooth Bridges 2025	**Run No.:**	LB136024

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID PB168265BS								
Hexavalent Chromium	mg/Kg	20	19.8		99	1	84-110	06/05/2025

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Instrument ID: FLAME

Daily Analysis Runlog For Sequence/QCBatch ID # LB135998

Review By	Eman	Review On	6/4/2025 2:02:38 PM
Supervise By	jignesh	Supervise On	6/4/2025 2:06:56 PM
SubDirectory	LB135998	Test	Ignitability

STD. NAME	STD REF.#
ICAL Standard	N/A
ICV Standard	N/A
CCV Standard	N/A
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	N/A
Chk Standard	N/A

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	Q2175-01	32525	SAM	06/04/25 08:45		Eman	OK
2	Q2175-01DUP	32525DUP	DUP	06/04/25 08:52		Eman	OK
3	Q2185-01	TP02-MHB-WC	SAM	06/04/25 09:00		Eman	OK
4	Q2185-04	TP02-MHB-WC	SAM	06/04/25 09:07		Eman	OK
5	Q2185-05	TP01-MHA-WC	SAM	06/04/25 09:15		Eman	OK
6	Q2185-08	TP01-MHA-WC	SAM	06/04/25 09:22		Eman	OK
7	Q2192-01	SB-1	SAM	06/04/25 09:30		Eman	OK
8	Q2194-01	COMP-12	SAM	06/04/25 09:37		Eman	OK
9	Q2194-02	COMP-12	SAM	06/04/25 09:45		Eman	OK
10	Q2194-03	COMP-13	SAM	06/04/25 09:52		Eman	OK
11	Q2194-04	COMP-13	SAM	06/04/25 10:00		Eman	OK
12	Q2198-02	B-202-SB02	SAM	06/04/25 10:07		Eman	OK
13	Q2198-04	B-207-SB02	SAM	06/04/25 10:15		Eman	OK

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Instrument ID: SPECTROPHOTOMETER-1

Daily Analysis Runlog For Sequence/QCBatch ID # LB136000

Review By	rubina	Review On	6/4/2025 3:48:05 PM
Supervise By	Iwona	Supervise On	6/5/2025 2:55:27 PM
SubDirectory	LB136000	Test	Hexavalent Chromium

STD. NAME	STD REF.#
ICAL Standard	N/A
ICV Standard	N/A
CCV Standard	N/A
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	N/A
Chk Standard	WP113369,WP113368,WP113366,WP113365,WP113373,WP112831,WP113367,WP113372,WP113370,WP113371

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	CAL1	CAL1	CAL	06/04/25 09:45		rubina	OK
2	CAL2	CAL2	CAL	06/04/25 09:45		rubina	OK
3	CAL3	CAL3	CAL	06/04/25 09:46		rubina	OK
4	CAL4	CAL4	CAL	06/04/25 09:46		rubina	OK
5	CAL5	CAL5	CAL	06/04/25 09:47		rubina	OK
6	CAL6	CAL6	CAL	06/04/25 09:47		rubina	OK
7	CAL7	CAL7	CAL	06/04/25 09:48		rubina	OK
8	ICV	ICV	ICV	06/04/25 09:48		rubina	OK
9	ICB	ICB	ICB	06/04/25 09:49		rubina	OK
10	CCV1	CCV1	CCV	06/04/25 09:49		rubina	OK
11	CCB1	CCB1	CCB	06/04/25 09:50		rubina	OK
12	RL Check	RL Check	SAM	06/04/25 09:51		rubina	OK
13	LB136000BL	LB136000BL	MB	06/04/25 09:51		rubina	OK
14	LB136000BS	LB136000BS	LCS	06/04/25 09:52		rubina	OK
15	Q2198-05	B-202-GW01	SAM	06/04/25 09:52		rubina	OK
16	Q2198-05DUP	B-202-GW01DUP	DUP	06/04/25 09:53		rubina	OK
17	Q2198-05MS	B-202-GW01MS	MS	06/04/25 09:53	2ML WP111315+98.0ML SAMPLE	rubina	OK
18	Q2198-05MSD	B-202-GW01MSD	MSD	06/04/25 09:54	2ML WP111315+98.0ML SAMPLE	rubina	OK

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Instrument ID: SPECTROPHOTOMETER-1

Daily Analysis Runlog For Sequence/QCBatch ID # LB136000

Review By	rubina	Review On	6/4/2025 3:48:05 PM
Supervise By	lwona	Supervise On	6/5/2025 2:55:27 PM
SubDirectory	LB136000	Test	Hexavalent Chromium

STD. NAME	STD REF.#
ICAL Standard	N/A
ICV Standard	N/A
CCV Standard	N/A
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	N/A
Chk Standard	WP113369,WP113368,WP113366,WP113365,WP113373,WP112831,WP113367,WP113372,WP113370,WP113371

19	CCV2	CCV2	CCV	06/04/25 09:54		rubina	OK
20	CCB2	CCB2	CCB	06/04/25 09:55		rubina	OK

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Instrument ID: WC PH METER-1

Daily Analysis Runlog For Sequence/QCBatch ID # LB136005

Review By	jignesh	Review On	6/5/2025 11:53:30 AM
Supervise By	Iwona	Supervise On	6/5/2025 1:03:29 PM
SubDirectory	LB136005	Test	Corrosivity

STD. NAME	STD REF.#
ICAL Standard	N/A
ICV Standard	N/A
CCV Standard	N/A
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	N/A
Chk Standard	W3178,W3093,W3191,W3071,W3161,W3200

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	CAL1	CAL1	CAL	06/04/25 11:30		Jignesh	OK
2	CAL2	CAL2	CAL	06/04/25 11:31		Jignesh	OK
3	CAL3	CAL3	CAL	06/04/25 11:33		Jignesh	OK
4	ICV	ICV	ICV	06/04/25 11:35		Jignesh	OK
5	CCV1	CCV1	CCV	06/04/25 11:37		Jignesh	OK
6	Q2194-02	COMP-12	SAM	06/04/25 11:44		Jignesh	OK
7	Q2194-04	COMP-13	SAM	06/04/25 11:47		Jignesh	OK
8	Q2198-02	B-202-SB02	SAM	06/04/25 11:55		Jignesh	OK
9	Q2198-02DUP	B-202-SB02DUP	DUP	06/04/25 11:56		Jignesh	OK
10	Q2198-04	B-207-SB02	SAM	06/04/25 12:00		Jignesh	OK
11	Q2206-04	TP-1	SAM	06/04/25 12:10		Jignesh	OK
12	Q2207-09	BU-703-COMP-01	SAM	06/04/25 12:15		Jignesh	OK
13	Q2207-18	BU-703-COMP-02	SAM	06/04/25 12:20		Jignesh	OK
14	Q2207-27	BU-703-COMP-03	SAM	06/04/25 12:30		Jignesh	OK
15	Q2207-36	BU-703-COMP-04	SAM	06/04/25 12:35		Jignesh	OK
16	CCV2	CCV2	CCV	06/04/25 12:40		Jignesh	OK
17	Q2207-45	BU-703-COMP-05	SAM	06/04/25 12:42		Jignesh	OK
18	Q2208-09	BU-703-COMP-06	SAM	06/04/25 12:45		Jignesh	OK

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Instrument ID: WC PH METER-1

Daily Analysis Runlog For Sequence/QCBatch ID # LB136005

Review By	jignesh	Review On	6/5/2025 11:53:30 AM
Supervise By	Iwona	Supervise On	6/5/2025 1:03:29 PM
SubDirectory	LB136005	Test	Corrosivity

STD. NAME	STD REF.#
ICAL Standard	N/A
ICV Standard	N/A
CCV Standard	N/A
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	N/A
Chk Standard	W3178,W3093,W3191,W3071,W3161,W3200

19	Q2208-18	BU-703-COMP-07	SAM	06/04/25 12:50		Jignesh	OK
20	Q2208-27	BU-703-COMP-08	SAM	06/04/25 13:00		Jignesh	OK
21	Q2208-36	BU-703-COMP-09	SAM	06/04/25 13:10		Jignesh	OK
22	CCV3	CCV3	CCV	06/04/25 13:15		Jignesh	OK

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Instrument ID: WC PH METER-1

Daily Analysis Runlog For Sequence/QCBatch ID # LB136006

Review By	jignesh	Review On	6/5/2025 12:01:14 PM
Supervise By	Iwona	Supervise On	6/5/2025 1:03:19 PM
SubDirectory	LB136006	Test	pH

STD. NAME	STD REF.#
ICAL Standard	N/A
ICV Standard	N/A
CCV Standard	N/A
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	N/A
Chk Standard	W3178,W3093,W3191,W3071,W3161,W3200

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	CAL1	CAL1	CAL	06/04/25 11:30		Jignesh	OK
2	CAL2	CAL2	CAL	06/04/25 11:31		Jignesh	OK
3	CAL3	CAL3	CAL	06/04/25 11:33		Jignesh	OK
4	ICV	ICV	ICV	06/04/25 11:35		Jignesh	OK
5	CCV1	CCV1	CCV	06/04/25 11:37		Jignesh	OK
6	Q2198-01	B-202-SB02	SAM	06/04/25 11:55		Jignesh	OK
7	Q2198-01DUP	B-202-SB02DUP	DUP	06/04/25 11:56		Jignesh	OK
8	Q2198-03	B-207-SB02	SAM	06/04/25 12:00		Jignesh	OK
9	CCV2	CCV2	CCV	06/04/25 12:19		Jignesh	OK

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Instrument ID: KONELAB

Daily Analysis Runlog For Sequence/QCBatch ID # LB136021

Review By	rubina	Review On	6/5/2025 5:39:07 PM
Supervise By	Iwona	Supervise On	6/6/2025 9:40:17 AM
SubDirectory	LB136021	Test	Reactive Cyanide

STD. NAME	STD REF.#
ICAL Standard	WP113382,WP113383,WP113384,WP113385,WP113386,WP113387,WP113388
ICV Standard	WP113389
CCV Standard	WP113383
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	N/A
Chk Standard	WP112643,WP112900,WP113390

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	0.0PPBCN	0.0PPBCN	CAL1	06/05/25 10:01		rubina	OK
2	5.0PPBCN	5.0PPBCN	CAL2	06/05/25 10:01		rubina	OK
3	10PPBCN	10PPBCN	CAL3	06/05/25 10:01		rubina	OK
4	50PPBCN	50PPBCN	CAL4	06/05/25 10:01		rubina	OK
5	100PPBCN	100PPBCN	CAL5	06/05/25 10:01		rubina	OK
6	250PPBCN	250PPBCN	CAL6	06/05/25 10:01		rubina	OK
7	500PPBCN	500PPBCN	CAL7	06/05/25 10:01		rubina	OK
8	ICV1	ICV1	ICV	06/05/25 13:36		rubina	OK
9	ICB1	ICB1	ICB	06/05/25 13:36		rubina	OK
10	CCV1	CCV1	CCV	06/05/25 13:37		rubina	OK
11	CCB1	CCB1	CCB	06/05/25 13:37		rubina	OK
12	PB168266BL	PB168266BL	MB	06/05/25 13:37		rubina	OK
13	Q2185-04	TP02-MHB-WC	SAM	06/05/25 13:37		rubina	OK
14	Q2185-04DUP	TP02-MHB-WCDUP	DUP	06/05/25 13:44		rubina	OK
15	Q2185-08	TP01-MHA-WC	SAM	06/05/25 13:44		rubina	OK
16	Q2194-02	COMP-12	SAM	06/05/25 13:44		rubina	OK
17	Q2194-04	COMP-13	SAM	06/05/25 13:44		rubina	OK
18	Q2198-02	B-202-SB02	SAM	06/05/25 13:44		rubina	OK

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Instrument ID: KONELAB

Daily Analysis Runlog For Sequence/QCBatch ID # LB136021

Review By	rubina	Review On	6/5/2025 5:39:07 PM
Supervise By	Iwona	Supervise On	6/6/2025 9:40:17 AM
SubDirectory	LB136021	Test	Reactive Cyanide

STD. NAME	STD REF.#
ICAL Standard	WP113382,WP113383,WP113384,WP113385,WP113386,WP113387,WP113388
ICV Standard	WP113389
CCV Standard	WP113383
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	N/A
Chk Standard	WP112643,WP112900,WP113390

19	Q2198-04	B-207-SB02	SAM	06/05/25 13:44		rubina	OK
20	Q2206-04	TP-1	SAM	06/05/25 13:44		rubina	OK
21	Q2207-09	BU-703-COMP-01	SAM	06/05/25 13:44		rubina	OK
22	CCV2	CCV2	CCV	06/05/25 13:52		rubina	OK
23	CCB2	CCB2	CCB	06/05/25 13:52		rubina	OK
24	Q2207-18	BU-703-COMP-02	SAM	06/05/25 13:52		rubina	OK
25	Q2207-27	BU-703-COMP-03	SAM	06/05/25 13:52		rubina	OK
26	Q2207-36	BU-703-COMP-04	SAM	06/05/25 13:52		rubina	OK
27	Q2207-45	BU-703-COMP-05	SAM	06/05/25 13:52		rubina	OK
28	Q2208-09	BU-703-COMP-06	SAM	06/05/25 13:52		rubina	OK
29	Q2208-18	BU-703-COMP-07	SAM	06/05/25 13:59		rubina	OK
30	Q2208-27	BU-703-COMP-08	SAM	06/05/25 13:59		rubina	OK
31	Q2208-36	BU-703-COMP-09	SAM	06/05/25 13:59		rubina	OK
32	PB168294BL	PB168294BL	MB	06/05/25 13:59		rubina	OK
33	Q2226-04	TP06-MHI-WC	SAM	06/05/25 13:59		rubina	OK
34	CCV3	CCV3	CCV	06/05/25 13:59		rubina	OK
35	CCB3	CCB3	CCB	06/05/25 14:07		rubina	OK
36	Q2226-04DUP	TP06-MHI-WCDUP	DUP	06/05/25 14:07		rubina	OK
37	Q2227-04	TP07-MHH-WC	SAM	06/05/25 14:07		rubina	OK
38	Q2228-04	TP08-MHI-WC	SAM	06/05/25 14:07		rubina	OK

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Instrument ID: KONELAB

Daily Analysis Runlog For Sequence/QCBatch ID # LB136021

Review By	rubina	Review On	6/5/2025 5:39:07 PM
Supervise By	Iwona	Supervise On	6/6/2025 9:40:17 AM
SubDirectory	LB136021	Test	Reactive Cyanide

STD. NAME	STD REF.#
ICAL Standard	WP113382,WP113383,WP113384,WP113385,WP113386,WP113387,WP113388
ICV Standard	WP113389
CCV Standard	WP113383
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	N/A
Chk Standard	WP112643,WP112900,WP113390

39	Q2235-03	WC-A2-08-C	SAM	06/05/25 14:07		rubina	OK
40	Q2236-03	WC-A4-05A-C	SAM	06/05/25 14:07		rubina	OK
41	Q2236-07	WC-A2-04-C	SAM	06/05/25 14:07		rubina	OK
42	Q2236-11	WC-A2-05-C	SAM	06/05/25 14:07		rubina	OK
43	Q2236-15	WC-A2-06-C	SAM	06/05/25 14:07		rubina	OK
44	Q2236-19	WC-A2-07-C	SAM	06/05/25 14:07		rubina	OK
45	CCV4	CCV4	CCV	06/05/25 14:12		rubina	OK
46	CCB4	CCB4	CCB	06/05/25 14:12		rubina	OK

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Instrument ID: TITRAMETRIC

Daily Analysis Runlog For Sequence/QCBatch ID # LB136023

Review By	rubina	Review On	6/5/2025 3:53:13 PM
Supervise By	Iwona	Supervise On	6/5/2025 4:20:18 PM
SubDirectory	LB136023	Test	Reactive Sulfide

STD. NAME	STD REF.#
ICAL Standard	N/A
ICV Standard	N/A
CCV Standard	N/A
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	N/A
Chk Standard	W3105,W3213,W3149

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	Q2206-04	TP-1	SAM	06/04/25 14:24		rubina	OK
2	PB168267BL	PB168267BL	MB	06/04/25 17:03		rubina	OK
3	Q2185-04	TP02-MHB-WC	SAM	06/04/25 17:06		rubina	OK
4	Q2185-04DUP	TP02-MHB-WCDUP	DUP	06/04/25 17:09		rubina	OK
5	Q2185-08	TP01-MHA-WC	SAM	06/04/25 17:11		rubina	OK
6	Q2194-02	COMP-12	SAM	06/04/25 17:15		rubina	OK
7	Q2194-04	COMP-13	SAM	06/04/25 17:18		rubina	OK
8	Q2198-02	B-202-SB02	SAM	06/04/25 17:20		rubina	OK
9	Q2198-04	B-207-SB02	SAM	06/04/25 17:22		rubina	OK
10	Q2207-09	BU-703-COMP-01	SAM	06/04/25 17:26		rubina	OK
11	Q2207-18	BU-703-COMP-02	SAM	06/04/25 17:29		rubina	OK
12	Q2207-27	BU-703-COMP-03	SAM	06/04/25 17:32		rubina	OK
13	Q2207-36	BU-703-COMP-04	SAM	06/04/25 17:35		rubina	OK
14	Q2207-45	BU-703-COMP-05	SAM	06/04/25 17:37		rubina	OK
15	Q2208-09	BU-703-COMP-06	SAM	06/04/25 17:40		rubina	OK
16	Q2208-18	BU-703-COMP-07	SAM	06/04/25 17:42		rubina	OK
17	Q2208-27	BU-703-COMP-08	SAM	06/04/25 17:45		rubina	OK
18	Q2208-36	BU-703-COMP-09	SAM	06/04/25 17:47		rubina	OK

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Instrument ID: SPECTROPHOTOMETER-1

Daily Analysis Runlog For Sequence/QCBatch ID # LB136024

Review By	rubina	Review On	6/5/2025 4:28:45 PM
Supervise By	Iwona	Supervise On	6/9/2025 1:16:19 PM
SubDirectory	LB136024	Test	Hexavalent Chromium

STD. NAME	STD REF.#
ICAL Standard	N/A
ICV Standard	N/A
CCV Standard	N/A
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	N/A
Chk Standard	WP113405,WP112831,WP112830,WP113087

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	CAL1	CAL1	CAL	06/05/25 13:00		rubina	OK
2	CAL2	CAL2	CAL	06/05/25 13:01		rubina	OK
3	CAL3	CAL3	CAL	06/05/25 13:02		rubina	OK
4	CAL4	CAL4	CAL	06/05/25 13:03		rubina	OK
5	CAL5	CAL5	CAL	06/05/25 13:04		rubina	OK
6	CAL6	CAL6	CAL	06/05/25 13:05		rubina	OK
7	CAL7	CAL7	CAL	06/05/25 13:06		rubina	OK
8	ICV	ICV	ICV	06/05/25 13:07		rubina	OK
9	CCV1	CCV1	CCV	06/05/25 13:09		rubina	OK
10	CCB1	CCB1	CCB	06/05/25 13:10		rubina	OK
11	RL Check	RL Check	SAM	06/05/25 13:11		rubina	OK
12	PB168265BL	PB168265BL	MB	06/05/25 13:12		rubina	OK
13	PB168265BS	PB168265BS	LCS	06/05/25 13:13		rubina	OK
14	Q2185-01	TP02-MHB-WC	SAM	06/05/25 13:14		rubina	OK
15	Q2185-01DUP	TP02-MHB-WCDUP	DUP	06/05/25 13:15		rubina	OK
16	Q2185-01MSPre	TP02-MHB-WCMS	MS	06/05/25 13:16		rubina	OK
17	Q2185-01MS2Ins	TP02-MHB-WCMS	MS	06/05/25 13:17		rubina	OK
18	Q2185-01MS3Post	TP02-MHB-WCMS	MS	06/05/25 13:18		rubina	OK

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Instrument ID: SPECTROPHOTOMETER-1

Daily Analysis Runlog For Sequence/QCBatch ID # LB136024

Review By	rubina	Review On	6/5/2025 4:28:45 PM
Supervise By	Iwona	Supervise On	6/9/2025 1:16:19 PM
SubDirectory	LB136024	Test	Hexavalent Chromium

STD. NAME	STD REF.#
ICAL Standard	N/A
ICV Standard	N/A
CCV Standard	N/A
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	N/A
Chk Standard	WP113405,WP112831,WP112830,WP113087

19	Q2185-05	TP01-MHA-WC	SAM	06/05/25 13:19		rubina	OK
20	Q2194-01	COMP-12	SAM	06/05/25 13:20		rubina	OK
21	Q2194-03	COMP-13	SAM	06/05/25 13:21		rubina	OK
22	CCV2	CCV2	CCV	06/05/25 13:22		rubina	OK
23	CCB2	CCB2	CCB	06/05/25 13:23		rubina	OK
24	Q2195-01	OK-01-060325	SAM	06/05/25 13:24		rubina	OK
25	Q2198-01	B-202-SB02	SAM	06/05/25 13:25		rubina	OK
26	Q2198-03	B-207-SB02	SAM	06/05/25 13:26		rubina	OK
27	Q2206-01	TP-1	SAM	06/05/25 13:27		rubina	OK
28	Q2207-01	BU-703-COMP-01	SAM	06/05/25 13:28		rubina	OK
29	Q2207-10	BU-703-COMP-02	SAM	06/05/25 13:29		rubina	OK
30	Q2207-19	BU-703-COMP-03	SAM	06/05/25 13:30		rubina	OK
31	Q2207-28	BU-703-COMP-04	SAM	06/05/25 13:31		rubina	OK
32	Q2207-37	BU-703-COMP-05	SAM	06/05/25 13:32		rubina	OK
33	Q2208-01	BU-703-COMP-06	SAM	06/05/25 13:33		rubina	OK
34	CCV3	CCV3	CCV	06/05/25 13:34		rubina	OK
35	CCB3	CCB3	CCB	06/05/25 13:35		rubina	OK
36	Q2208-10	BU-703-COMP-07	SAM	06/05/25 13:36		rubina	OK
37	Q2208-19	BU-703-COMP-08	SAM	06/05/25 13:37		rubina	OK
38	Q2208-28	BU-703-COMP-09	SAM	06/05/25 13:38		rubina	OK

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Instrument ID: SPECTROPHOTOMETER-1

Daily Analysis Runlog For Sequence/QCBatch ID # LB136024

Review By	rubina	Review On	6/5/2025 4:28:45 PM
Supervise By	Iwona	Supervise On	6/9/2025 1:16:19 PM
SubDirectory	LB136024	Test	Hexavalent Chromium

STD. NAME	STD REF.#
ICAL Standard	N/A
ICV Standard	N/A
CCV Standard	N/A
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	N/A
Chk Standard	WP113405,WP112831,WP112830,WP113087

39	Q2224-01	EO-01-06042025	SAM	06/05/25 13:39		rubina	OK
40	Q2226-01	TP06-MHI-WC	SAM	06/05/25 13:40		rubina	OK
41	Q2227-01	TP07-MHH-WC	SAM	06/05/25 13:41		rubina	OK
42	CCV4	CCV4	CCV	06/05/25 13:42		rubina	OK
43	CCB4	CCB4	CCB	06/05/25 13:43		rubina	OK
44	ICB	ICB	ICB	06/05/25 17:08		rubina	OK

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Instrument ID: WC PH METER-1

Daily Analysis Runlog For Sequence/QCBatch ID # LB136042

Review By	jignesh	Review On	6/6/2025 2:47:29 PM
Supervise By	Iwona	Supervise On	6/9/2025 1:10:10 PM
SubDirectory	LB136042	Test	pH

STD. NAME	STD REF.#
ICAL Standard	N/A
ICV Standard	N/A
CCV Standard	N/A
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	N/A
Chk Standard	W3178,W3093,W3191,W3071,W3161,W3200

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	CAL1	CAL1	CAL	06/06/25 12:15		jignesh	OK
2	CAL2	CAL2	CAL	06/06/25 12:16		jignesh	OK
3	CAL3	CAL3	CAL	06/06/25 12:17		jignesh	OK
4	ICV	ICV	ICV	06/06/25 12:20		jignesh	OK
5	CCV1	CCV1	CCV	06/06/25 12:25		jignesh	OK
6	Q2198-05	B-202-GW01	SAM	06/06/25 12:35		jignesh	OK
7	Q2198-05DUP	B-202-GW01DUP	DUP	06/06/25 12:37		jignesh	OK
8	Q2221-02	34900	SAM	06/06/25 12:44		jignesh	OK
9	Q2221-03	34867	SAM	06/06/25 12:55		jignesh	OK
10	Q2245-01	AU-25-0090	SAM	06/06/25 13:10		jignesh	OK
11	Q2245-02	AU-25-0091	SAM	06/06/25 13:15		jignesh	OK
12	CCV2	CCV2	CCV	06/06/25 13:20		jignesh	OK

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

LAB CHRONICLE

OrderID:	Q2198	**OrderDate:**	6/3/2025 2:31:00 PM
Client:	Portal Partners Tri-Venture	**Project:**	Amtrak Sawtooth Bridges 2025
Contact:	Joseph Krupansky	**Location:**	N22,VOA Ref. #2 Soil,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2198-01	**B-202-SB02**	**SOIL**			**05/31/25 16:55**			**06/03/25**
			Hexavalent Chromium	7196A		06/05/25	06/05/25 13:25	
			pH	9045D			06/04/25 11:55	
			Trivalent Chromium	6010D			06/05/25 20:37	
Q2198-02	**B-202-SB02**	**SOIL**			**05/31/25 16:55**			**06/03/25**
			Corrosivity	9045D			06/04/25 11:55	
			Ignitability	1030			06/04/25 10:07	
			Reactive Cyanide	9012B		06/05/25	06/05/25 13:44	
			Reactive Sulfide	9034		06/04/25	06/04/25 17:20	
Q2198-03	**B-207-SB02**	**SOIL**			**06/01/25 11:04**			**06/03/25**
			pH	9045D			06/04/25 12:00	
			Hexavalent Chromium	7196A		06/05/25	06/05/25 13:26	
			Trivalent Chromium	6010D			06/05/25 20:41	
Q2198-04	**B-207-SB02**	**SOIL**			**06/01/25 11:04**			**06/03/25**
			Corrosivity	9045D			06/04/25 12:00	

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

LAB CHRONICLE

			Ignitability	1030			06/04/25 10:15
			Reactive Cyanide	9012B		06/05/25	06/05/25 13:44
			Reactive Sulfide	9034		06/04/25	06/04/25 17:22
Q2198-05	**B-202-GW01**	**WATER**			**05/31/25 20:00**		**06/03/25**
			pH	9040C			06/06/25 12:35
			trivalent Chromium	6010D			06/04/25 21:07
			Hexavalent Chromium	7196A			06/04/25 09:52

Alliance TECHNICAL GROUP

Soil/Sludge Hexavalent Chromium Preparation Sheet

PB168265

16

SOP ID : M3060A,7196A-Hex.Chromium-26

SDG No : N/A

Matrix : SOIL

Pippete ID : WC

Balance ID : WC SC-7

Hood ID : HOOD#3

Block ID : WC S-2, WC S-1

Weigh By : RM

Start Digest Date: 06/05/2025 **Time :** 09:30 **Temp :** 90 °C

End Digest Date: 06/05/2025 **Time :** 10:30 **Temp :** 95 °C

Ibatch
06/05/2025 11:06 90 c
06/05/2025 12:00 94 c

Digestion tube ID : M6054

Filter paper ID : 400213

pH Meter ID : WC pH meter-1

Block Thermometer ID : WC-Block#1

Prep Technician Signature: RM

Supervisor Signature: 12

Standared Name	MLS USED	STD REF. # FROM LOG
PRE-DIGESTION SPIKE	2.0ML	WP111315
INSOLUBLE SPIKE	0.02GM	W2202
POST-DIGESTION SPIKE	2.0ML	WP111315
LCSS	1.0ML	WP111316
PBS003	50.ML	W3112

Chemical Used	ML/SAMPLE USED	Lot Number
MAGNESIUM CHLORIDE	0.4GM	W3152
PHOSPHATE BUFFER	0.5ML	WP112903
HEX. DIGESTION SOLN.	50.0ML	WP113085
5M HNO3	5-7ML	WP112830
5N H2SO4	1-3ML	WP112831
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

LAB SAMPLE ID	CLIENT SAMPLE ID	Vol(ml)	Comment
CAL1	CAL1	2.5ML	W3112
CAL2	CAL2	0.2ML	WP113404
CAL3	CAL3	0.5ML	WP113404
CAL4	CAL4	1ML	WP113404
CAL5	CAL5	0.2ML	WP111315
CAL6	CAL6	1ML	WP111315
CAL7	CAL7	2.0ML	WP111315
ICV	ICV	1ML	WP111316
ICB	ICB	2.5ML	W3112
CCV	CCV	1ML	WP111315
CCB	CCB	2.5ML	W3112

Extraction Conformance/Non-Conformance Comments:

06/05/2025 RM

N/A

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

Soil/Sludge Hexavalent Chromium Preparation Sheet

PB168265

Lab Sample ID	Client Sample ID	Initial Weight (g)	Final Vol (ml)	pH	Sulfide	Oxidizing	Nitrate/ Nitrite	Comment	Prep Pos
PB168265BL	PBS265	2.50	100	N/A	N/A	N/A	N/A	N/A	N/A
PB168265BS	LCS265	2.50	100	N/A	N/A	N/A	N/A	N/A	N/A
Q2185-01DUP	TP02-MHB-WCDUP	2.52	100	N/A	N/A	N/A	N/A	N/A	N/A
Q2185-01MSPre	TP02-MHB-WCMSPRE	2.51	100	N/A	N/A	N/A	N/A	N/A	N/A
Q2185-01MS2Ins	TP02-MHB-WCMS2INS	2.52	100	N/A	N/A	N/A	N/A	N/A	N/A
Q2185-01MS3Post	TP02-MHB-WCMS3POST	2.53	100	N/A	N/A	N/A	N/A	N/A	N/A
Q2185-01	TP02-MHB-WC	2.52	100	N/A	N/A	N/A	N/A	N/A	N/A
Q2185-05	TP01-MHB-WC	2.57	100	N/A	N/A	N/A	N/A	N/A	N/A
Q2194-01	COMP-12	2.58	100	N/A	N/A	N/A	N/A	N/A	N/A
Q2194-03	COMP-13	2.55	100	N/A	N/A	N/A	N/A	N/A	N/A
Q2195-01	OK-01-060325	2.52	100	N/A	N/A	N/A	N/A	N/A	N/A
Q2198-01	B-202-SB02	2.55	100	N/A	N/A	N/A	N/A	N/A	N/A
Q2198-03	B-207-SB01	2.51	100	N/A	N/A	N/A	N/A	N/A	N/A
Q2206-01	TP-1	2.56	100	N/A	N/A	N/A	N/A	N/A	N/A
Q2207-01	BU-703-COMP-01	2.55	100	N/A	N/A	N/A	N/A	N/A	N/A
Q2207-10	BU-703-COMP-02	2.56	100	N/A	N/A	N/A	N/A	N/A	N/A
Q2207-19	BU-703-COMP-03	2.52	100	N/A	N/A	N/A	N/A	N/A	N/A
Q2207-28	BU-703-COMP-04	2.53	100	N/A	N/A	N/A	N/A	N/A	N/A
Q2207-37	BU-703-COMP-05	2.54	100	N/A	N/A	N/A	N/A	N/A	N/A
Q2208-01	BU-703-COMP-06	2.52	100	N/A	N/A	N/A	N/A	N/A	N/A
Q2208-10	BU-703-COMP-07	2.57	100	N/A	N/A	N/A	N/A	N/A	N/A
Q2208-19	BU-703-COMP-08	2.54	100	N/A	N/A	N/A	N/A	N/A	N/A
Q2208-28	BU-703-COMP-09	2.51	100	N/A	N/A	N/A	N/A	N/A	N/A
Q2224-01	EO-01-06042025	2.55	100	N/A	N/A	N/A	N/A	N/A	N/A
Q2226-01	TP06-MHI-WC	2.51	100	N/A	N/A	N/A	N/A	N/A	N/A

Alliance TECHNICAL GROUP

Soil/Sludge Hexavalent Chromium Preparation Sheet

PB168265

Lab Sample ID	Client Sample ID	Initial Weight (g)	Final Vol (ml)	pH	Sulfide	Oxidizing	Nitrate/ Nitrite	Comment	Prep Pos
Q2227-01	TP07-MHH-WC	2.55	100	N/A	N/A	N/A	N/A	N/A	N/A

Alliance TECHNICAL GROUP

Soil/Sludge Reactive Cyanide Preparation Sheet

PB168266

SOP ID : M9012B-Total, Amenable and Reactive Cyanide-20

SDG No : N/A

Start Digest Date: 06/05/2025 **Time :** 08:50 **Temp :** N/A

Matrix : SOIL

End Digest Date: 06/05/2025 **Time :** 10:20 **Temp :** N/A

Pippete ID : N/A

Balance ID : WC SC-7

Hood ID : HOOD#1 **Digestion tube ID :** M5595 **Block Thermometer ID :** N/A

Block ID : MC-1,MC-2 **Filter paper ID :** N/A **Prep Technician Signature:** RM

Weigh By : RM **pH Meter ID :** N/A **Supervisor Signature:** 12

Standared Name	MLS USED	STD REF. # FROM LOG
PBS003	50.0ML	W3112
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
0.25N NaOH	50.0ML	WP111294
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

LAB SAMPLE ID	CLIENT SAMPLE ID		Comment

Extraction Conformance/Non-Conformance Comments:

N/A

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
06/05/2025 10:30	RM (WC)	RM (WC)
	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

Soil/Sludge Reactive Cyanide Preparation Sheet

PB168266

Lab Sample ID	Client Sample ID	Initial Weight (g)	Final Vol (ml)	pH	Sulfide	Oxidizing	Nitrate/ Nitrite	Comment	Prep Pos
PB168266BL	PBS266	5.00	50	N/A	N/A	N/A	N/A	N/A	N/A
Q2185-04	TP02-MHB-WC	5.03	50	N/A	N/A	N/A	N/A	N/A	N/A
Q2185-04DUP	TP02-MHB-WCDUP	5.03	50	N/A	N/A	N/A	N/A	N/A	N/A
Q2185-08	TP01-MHB-WC	5.03	50	N/A	N/A	N/A	N/A	N/A	N/A
Q2194-02	COMP-12	5.07	50	N/A	N/A	N/A	N/A	N/A	N/A
Q2194-04	COMP-13	5.03	50	N/A	N/A	N/A	N/A	N/A	N/A
Q2198-02	B-202-SB02	5.02	50	N/A	N/A	N/A	N/A	N/A	N/A
Q2198-04	B-207-SB01	5.05	50	N/A	N/A	N/A	N/A	N/A	N/A
Q2206-04	TP-1	5.07	50	N/A	N/A	N/A	N/A	N/A	N/A
Q2207-09	BU-703-COMP-01	5.02	50	N/A	N/A	N/A	N/A	N/A	N/A
Q2207-18	BU-703-COMP-02	5.04	50	N/A	N/A	N/A	N/A	N/A	N/A
Q2207-27	BU-703-COMP-03	5.06	50	N/A	N/A	N/A	N/A	N/A	N/A
Q2207-36	BU-703-COMP-04	5.03	50	N/A	N/A	N/A	N/A	N/A	N/A
Q2207-45	BU-703-COMP-05	5.02	50	N/A	N/A	N/A	N/A	N/A	N/A
Q2208-09	BU-703-COMP-06	5.08	50	N/A	N/A	N/A	N/A	N/A	N/A
Q2208-18	BU-703-COMP-07	5.01	50	N/A	N/A	N/A	N/A	N/A	N/A
Q2208-27	BU-703-COMP-08	5.07	50	N/A	N/A	N/A	N/A	N/A	N/A
Q2208-36	BU-703-COMP-09	5.07	50	N/A	N/A	N/A	N/A	N/A	N/A

Alliance TECHNICAL GROUP

Soil/Sludge Reactive Sulfide Preparation Sheet

PB168267

16

SOP ID : M9030B-Sulfide-12

SDG No : N/A

Matrix : SOIL

Pippete ID : WC

Balance ID : WC SC-7

Hood ID : HOOD#1

Block ID : MC-2

Weigh By : RM

Start Digest Date: 06/04/2025 **Time :** 15:00 **Temp :** N/A

End Digest Date: 06/04/2025 **Time :** 16:30 **Temp :** N/A

Digestion tube ID : M5595

Filter paper ID : N/A

pH Meter ID : N/A

Block Thermometer ID : N/A

Prep Technician Signature: RM

Supervisor Signature: 12

Standared Name	MLS USED	STD REF. # FROM LOG
PBS003	50.0ML	W3112
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
0.5M ZINC ACETATE	5.0ML	WP113086
FORMALDEHYDE	2.0ML	W2725
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

06/04/2025 RM

N/A

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

Soil/Sludge Reactive Sulfide Preparation Sheet

PB168267

Lab Sample ID	Client Sample ID	Initial Weight (g)	Final Vol (ml)	pH	Sulfide	Oxidizing	Nitrate/ Nitrite	Comment	Prep Pos
PB168267BL	PBS267	5.00	50	N/A	N/A	N/A	N/A	N/A	N/A
Q2185-04DUP	TP02-MHB-WCDUP	5.07	50	N/A	N/A	N/A	N/A	N/A	N/A
Q2185-04	TP02-MHB-WC	5.07	50	N/A	N/A	N/A	N/A	N/A	N/A
Q2185-08	TP01-MHB-WC	5.04	50	N/A	N/A	N/A	N/A	N/A	N/A
Q2194-02	COMP-12	5.06	50	N/A	N/A	N/A	N/A	N/A	N/A
Q2194-04	COMP-13	5.07	50	N/A	N/A	N/A	N/A	N/A	N/A
Q2198-02	B-202-SB02	5.01	50	N/A	N/A	N/A	N/A	N/A	N/A
Q2198-04	B-207-SB01	5.03	50	N/A	N/A	N/A	N/A	N/A	N/A
Q2206-04	TP-1	5.06	50	N/A	N/A	N/A	N/A	N/A	N/A
Q2207-09	BU-703-COMP-01	5.03	50	N/A	N/A	N/A	N/A	N/A	N/A
Q2207-18	BU-703-COMP-02	5.05	50	N/A	N/A	N/A	N/A	N/A	N/A
Q2207-27	BU-703-COMP-03	5.02	50	N/A	N/A	N/A	N/A	N/A	N/A
Q2207-36	BU-703-COMP-04	5.02	50	N/A	N/A	N/A	N/A	N/A	N/A
Q2207-45	BU-703-COMP-05	5.08	50	N/A	N/A	N/A	N/A	N/A	N/A
Q2208-09	BU-703-COMP-06	5.06	50	N/A	N/A	N/A	N/A	N/A	N/A
Q2208-18	BU-703-COMP-07	5.02	50	N/A	N/A	N/A	N/A	N/A	N/A
Q2208-27	BU-703-COMP-08	5.07	50	N/A	N/A	N/A	N/A	N/A	N/A
Q2208-36	BU-703-COMP-09	5.01	50	N/A	N/A	N/A	N/A	N/A	N/A

SHIPPING DOCUMENTS

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 • Fax (908) 789-8922
www.chemtech.net

ALLIANCE PROJECT NO.
QUOTE NO. Q2198
COC Number 2046410

17
17.1

CLIENT INFORMATION

REPORT TO BE SENT TO:
COMPANY: Gannet Fleming
ADDRESS: 1010 Adams Avenue
CITY Audubon STATE: PA ZIP: 19403
ATTENTION: Joe Knapensky
PHONE: 610-310-8342 FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: AMTRAK Sawtooth
PROJECT NO.: 95000878 LOCATION: Kearny, NJ
PROJECT MANAGER: Joe Knapensky
e-mail: QAQC@BEMSYS.com
PHONE: 6103108342 FAX:

CLIENT BILLING INFORMATION

BILL TO: Alliance PO#:
ADDRESS: 284 Sheffield
CITY Mantainside STATE: NJ ZIP: 07092
ATTENTION: Samara Basly PHONE: 9887283143

DATA TURNAROUND INFORMATION

FAX (RUSH) _____ DAYS*
HARDCOPY (DATA PACKAGE): 10 DAYS*
EDD: 10 DAYS*
*TO BE APPROVED BY CHEMTECH
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS

DATA DELIVERABLE INFORMATION

☐ Level 1 (Results Only) ☐ Level 4 (QC + Full Raw Data)
☐ Level 2 (Results + QC) ☐ NJ Reduced ☐ US EPA CLP
☐ Level 3 (Results + QC + Raw Data) ☐ NYS ASP A ☐ NYS ASP B
☐ Other _____
☐ EDD FORMAT BCM EDD

ANALYSIS

1 TCL VOC + 10
2 SVOC - BNA + 20
3 PCB
4 Pesticides
5 TAL Metals
6 Cr (III), Cr (IV)
7 Full TCLP
8 RCRA
9 EPH

ALLIANCE SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# OF BOTTLES	PRESERVATIVES 1	2	3	4	5	6	7	8	9	COMMENTS
1.	B-202-SB02	S		X	5/31/25	1605	6	X	X	X		X	X	X	X	X	
2.	B-202-GW01	GW		X		2000	8	X	X	X		X	X	X	X	X	
3.	B-207-SB02	S		X	6/1/25	11:00AM	7	X	X	X		X	X	X	X	X	
4.																	
5.																	
6.																	
7.																	
8.																	
9.																	
10.																	

PRESERVATIVES
COMMENTS
← Specify Preservatives
A-HCl D-NaOH
B-HN03 E-ICE
C-H2SO4 F-OTHER

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:
1. Yesenia Pujara	06/02 - 9:57	1. 0452 6-3-25
2.		2.
3.	1902 6-3-25	3.

Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP 3-3 °C
Comments:

Page ____ of
CLIENT: ☐ Hand Delivered ☐ Other
Shipment Complete ☐ YES ☐ NO

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WHITE - ALLIANCE COPY FOR RETURN TO CLIENT YELLOW - ALLIANCE COPY PINK - SAMPLER COPY

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Laboratory Certification

Certified By	License No.
CAS EPA CLP Contract	68HERH20D0011
Connecticut	PH-0830
DOD ELAP (ANAB)	L2219
Maine	2024021
Maryland	296
New Hampshire	255424 Rev 1
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	T104704488

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q2198 PORT06
Client Name : Portal Partners Tri-Venture
Client Contact : Joseph Krupansky
Invoice Name : Portal Partners Tri-Venture
Invoice Contact : Joseph Krupansky

Order Date : 6/3/2025 2:31:00 PM
Project Name : Amtrak Sawtooth Bridges 2
Receive DateTime : 6/3/2025 ~~12:00:00~~ AM 19:02
Purchase Order :

Project Mgr :
Report Type : NJ Reduced
EDD Type : EXCEL NJCLEANUP
Hard Copy Date :
Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
Q2198-01	B-202-SB02	Solid	05/31/2025	16:55	VOC-TCLVOA-10		8260D		10 Bus. Days
Q2198-03	~~B-207-SB01~~ B-207-SB02	Solid	06/01/2025	~~20:00~~ 11:04	VOC-TCLVOA-10		8260D		10 Bus. Days
Q2198-05	B-202-GW01	Water	05/31/2025	~~11:04~~ 20:00	VOC-TCLVOA-10		8260-Low		10 Bus. Days

Relinguished By : [signature]
Date / Time : 6/4/25 1040

Samples received on 6/3/25
Samples placed in SM-REF-2

Received By : Sam
Date / Time : 06/04/25 10:40
Storage Area : VOA Refridgerator Room

Reg #4
Reg #6
FR2 - 2