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

DATA PACKAGE

METALS
GC SEMI-VOLATILES
SEMI-VOLATILE ORGANICS
VOLATILE ORGANICS

PROJECT NAME : SOUTH RIVER WM REPLACEMENT

CDM SMITH

110 Fieldcrest Ave

Raritan Center

Edison, NJ - 08837

Phone No: 732-225-7000

ORDER ID : Q2100

ATTENTION : Marcie Ann Encinas

Laboratory Certification ID # 20012

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Cover Page

Order ID : Q2100

Project ID : South River WM Replacement

Client : CDM Smith

Lab Sample Number	Client Sample Number
Q2100-01	TP-16
Q2100-02	TP-22
Q2100-03	TP-21
Q2100-04	TP-45

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 10:42 am, Jun 03, 2025

Date: 6/3/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

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

CASE NARRATIVE

CDM Smith
Project Name: South River WM Replacement
Project # N/A
Order ID # Q2100
Test Name: VOC-TCLVOA-10

A. Number of Samples and Date of Receipt:
4 Solid samples were received on 05/20/2025.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: Diesel Range Organics, Gasoline Range Organics, Herbicide, Mercury, Metals ICP-TAL, METALS-TAL, PCB, Pesticide-TCL, SVOC-TCL BNA -20 and VOC-TCLVOA-10. This data package contains results for VOC-TCLVOA-10.

C. Analytical Techniques:
The 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 met criteria.

The Blank Spike for {VY0522SBS01} with File ID: VY022382.D met requirements for all samples except for Bromomethane[173%], Chloroethane[143%], failing high but no positive hit in associated samples therefore no corrective action taken.

The Blank Spike for {VY0523SBS01} with File ID: VY022409.D met requirements for all samples except for Acetone[140%], Chloroethane[136%], Bromomethane[173%], . failing high but no positive hit in associated samples therefore no corrective action taken.

The Blank Spike Duplicate for {VY0522SBSD01} with File ID: VY022383.D met requirements for all samples except for Bromomethane[167%], Chloroethane[142%] . failing high but no positive hit in associated samples therefore no corrective action taken.

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

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The Initial Calibration met the requirements.

The Continuous Calibration File ID VY022380.D met the requirements except for Bromomethane and Chloroethane failing high but no positive hit in associated samples therefore no corrective action taken.

The Continuous Calibration File ID VY022407.D met the requirements except for Bromomethane,Chloroethane and Vinyl Chloride failing high but no positive hit in associated samples 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.

APPROVED
By Nimisha Pandya, QA/QC Supervisor at 10:42 am, Jun 03, 2025

Signature_____

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CASE NARRATIVE

CDM Smith
Project Name: South River WM Replacement
Project # N/A
Order ID # Q2100
Test Name: Gasoline Range Organics

A. Number of Samples and Date of Receipt:
4 Solid samples were received on 05/20/2025.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: Diesel Range Organics, Gasoline Range Organics, Herbicide, Mercury, Metals ICP-TAL, METALS-TAL, PCB, Pesticide-TCL, SVOC-TCL BNA -20 and VOC-TCLVOA-10. This data package contains results for Gasoline Range Organics.

C. Analytical Techniques:
The analysis performed on instrument FID_B were done using GC column RTX502.2 which is 60 meters, 0.53mm ID, 3.0 um df, cat#10909.The analysis of Gasoline Range Organics was based on method 8015D.

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 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 .

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

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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 10:43 am, Jun 03, 2025

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

CASE NARRATIVE

CDM Smith
Project Name: South River WM Replacement
Project # N/A
Order ID # Q2100
Test Name: SVOC-TCL BNA -20

A. Number of Samples and Date of Receipt:
4 Solid samples were received on 05/20/2025.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: Diesel Range Organics, Gasoline Range Organics, Herbicide, Mercury, Metals ICP-TAL, METALS-TAL, PCB, Pesticide-TCL, SVOC-TCL BNA -20 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 analysis of SVOC-TCL BNA -20 was based on method 8270E and extraction was done based on method 3541.

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 recoveries met the requirements for all compounds .
The MSD recoveries met the acceptable requirements .
The RPD met criteria .

The Blank Spike for {PB168126BS} with File ID: BF142529.D met requirements for all samples except for 3,3-Dichlorobenzidine[41%],is marginally biased low therefore no corrective action was taken.

The Blank analysis did not indicate the presence of lab contamination.
The Initial Calibation met the requirements.
The Continuous Calibration met the requirements .
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.

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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 10:43 am, Jun 03, 2025

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CASE NARRATIVE

CDM Smith
Project Name: South River WM Replacement
Project # N/A
Order ID # Q2100
Test Name: Pesticide-TCL

A. Number of Samples and Date of Receipt:
4 Solid samples were received on 05/20/2025.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: Diesel Range Organics, Gasoline Range Organics, Herbicide, Mercury, Metals ICP-TAL, METALS-TAL, PCB, Pesticide-TCL, SVOC-TCL BNA -20 and VOC-TCLVOA-10. This data package contains results for Pesticide-TCL.

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 Pesticide-TCLs was based on method 8081B and extraction was done based on method 3541.

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 File ID PD088733.D met the requirements except for delta-BHC is failing in 1st column but it is passing in 2nd column therefore no corrective action

E. Additional Comments:
The Sample TP-21 have the concentration of target compound below Method detection limits, therefore it is not reported as Hit in Form1.

The soil samples results are based on a dry weight basis.

F. Manual Integration Comments:

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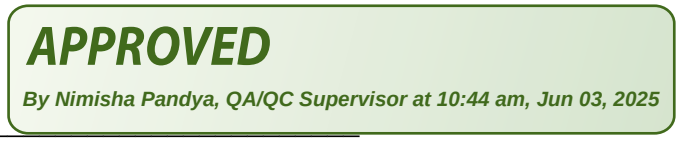
Please refer to the Manual integration Report included with the Run Logs for information on the manual integrations performed.

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 

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CASE NARRATIVE

CDM Smith
Project Name: South River WM Replacement
Project # N/A
Order ID # Q2100
Test Name: PCB

A. Number of Samples and Date of Receipt:
4 Solid samples were received on 05/20/2025.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: Diesel Range Organics, Gasoline Range Organics, Herbicide, Mercury, Metals ICP-TAL, METALS-TAL, PCB, Pesticide-TCL, SVOC-TCL BNA -20 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 3541.

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:

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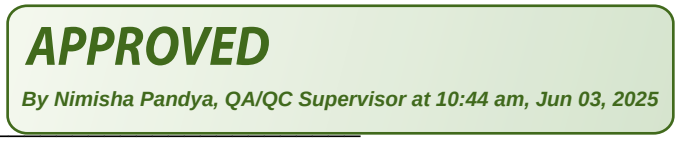
Please refer to the Manual integration Report included with the Run Logs for information on the manual integrations performed.

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 

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CASE NARRATIVE

CDM Smith
Project Name: South River WM Replacement
Project # N/A
Order ID # Q2100
Test Name: Herbicide

A. Number of Samples and Date of Receipt:
4 Solid samples were received on 05/20/2025.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: Diesel Range Organics, Gasoline Range Organics, Herbicide, Mercury, Metals ICP-TAL, METALS-TAL, PCB, Pesticide-TCL, SVOC-TCL BNA -20 and VOC-TCLVOA-10. This data package contains results for 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 Herbicides was based on method 8151A and extraction was done based on method 3541.

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

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 10:44 am, Jun 03, 2025

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Phone: 908 789 8900 Fax: 908 789 8922

CASE NARRATIVE

CDM Smith
Project Name: South River WM Replacement
Project # N/A
Order ID # Q2100
Test Name: Diesel Range Organics

A. Number of Samples and Date of Receipt:
4 Solid samples were received on 05/20/2025.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: Diesel Range Organics, Gasoline Range Organics, Herbicide, Mercury, Metals ICP-TAL, METALS-TAL, PCB, Pesticide-TCL, SVOC-TCL BNA -20 and VOC-TCLVOA-10. This data package contains results for Diesel Range Organics.

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 Diesel Range Organics was based on method 8015D and extraction was done based on method 3541.

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

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 10:44 am, Jun 03, 2025

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

CASE NARRATIVE

CDM Smith
Project Name: South River WM Replacement
Project # N/A
Order ID # Q2100
Test Name: Mercury,Metals ICP-TAL

A. Number of Samples and Date of Receipt:
4 Solid samples were received on 05/20/2025.

B. Parameters:
According to the Chain of Custody document, the following analyses were requested: Diesel Range Organics, Gasoline Range Organics, Herbicide, Mercury, Metals ICP-TAL, METALS-TAL, PCB, Pesticide-TCL, SVOC-TCL BNA -20 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). 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 (TP-1-MHEDUP) analysis met criteria for all samples except for Aluminum, Antimony, Arsenic, Barium, Beryllium, Calcium, Chromium, Cobalt, Copper, Iron, Magnesium, Manganese, Nickel, Potassium, Vanadium and Zinc due to sample matrix interference. The Duplicate (TP-1-MHEMSD) analysis met criteria for all samples except for Silver due to Chemical interference during digestion process.
The Matrix Spike (TP-1-MHEMS) analysis met criteria for all samples except for Antimony, Cobalt, Magnesium, Sodium, Vanadium and Zinc due to Chemical interference during Digestion process.
The Matrix Spike Duplicate (TP-1-MHEMSD) analysis met criteria for all samples except for Antimony, Magnesium, Vanadium and Zinc 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 met the acceptable requirements.

E. Additional Comments:
The Post Digest Spike (TP-1-MHEA) analysis met criteria for all samples except for Zinc due to unknown chemical interferences of matrix with the addition of spike amount after digestion and before analysis, matrix has suppression effect during addition of spike.

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 10:46 am, Jun 03, 2025

284 Sheffield Street, Mountainside NJ 07092
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

284 Sheffield Street, Mountainside NJ 07092 Tel.
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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Fax : 908 789 8922

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: Q2100

	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:** 06/03/2025

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

Hit Summary Sheet
SW-846

SDG No.: Q2100

Client: CDM Smith

Sample ID	Client ID	Matrix	Parameter		Concentration	C	MDL	RDL	Units
Client ID:	**TP-22**								
Q2100-02	TP-22	SOIL	Acetone		31.7		3.90	20.8	ug/Kg
Q2100-02	TP-22	SOIL	2-Butanone		6.00	J	5.40	20.8	ug/Kg
Q2100-02	TP-22	SOIL	Benzene		21.5		0.66	4.20	ug/Kg
Q2100-02	TP-22	SOIL	m/p-Xylenes		1.30	J	1.00	8.30	ug/Kg
			Total Voc :		60.5				
Q2100-02	TP-22	SOIL	Butane	*	6.00	J	0	0	ug/Kg
			Total Tics :		6.00				
			Total Concentration:		66.5				
Client ID:	**TP-45**								
Q2100-04	TP-45	SOIL	Acetone		7.90	J	4.50	23.5	ug/Kg
			Total Voc :		7.90				
			Total Concentration:		7.90				

SAMPLE DATA

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Report of Analysis

Client:	CDM Smith	Date Collected:	05/19/25
Project:	South River WM Replacement	Date Received:	05/20/25
Client Sample ID:	TP-16	SDG No.:	Q2100
Lab Sample ID:	Q2100-01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	88.4
Sample Wt/Vol:	10.7 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
VY022416.D	1		05/23/25 19:11	VY052325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	0.60	U	0.60	2.60	ug/Kg
74-87-3	Chloromethane	0.60	U	0.60	2.60	ug/Kg
75-01-4	Vinyl Chloride	0.42	U	0.42	2.60	ug/Kg
74-83-9	Bromomethane	0.57	UQ	0.57	2.60	ug/Kg
75-00-3	Chloroethane	0.67	UQ	0.67	2.60	ug/Kg
75-69-4	Trichlorofluoromethane	0.64	U	0.64	2.60	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	0.56	U	0.56	2.60	ug/Kg
75-35-4	1,1-Dichloroethene	0.53	U	0.53	2.60	ug/Kg
67-64-1	Acetone	2.50	UQ	2.50	13.2	ug/Kg
75-15-0	Carbon Disulfide	0.56	U	0.56	2.60	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.39	U	0.39	2.60	ug/Kg
79-20-9	Methyl Acetate	0.81	U	0.81	2.60	ug/Kg
75-09-2	Methylene Chloride	1.90	U	1.90	5.30	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.45	U	0.45	2.60	ug/Kg
75-34-3	1,1-Dichloroethane	0.42	U	0.42	2.60	ug/Kg
110-82-7	Cyclohexane	0.42	U	0.42	2.60	ug/Kg
78-93-3	2-Butanone	3.50	U	3.50	13.2	ug/Kg
56-23-5	Carbon Tetrachloride	0.51	U	0.51	2.60	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.40	U	0.40	2.60	ug/Kg
74-97-5	Bromochloromethane	0.61	U	0.61	2.60	ug/Kg
67-66-3	Chloroform	0.44	U	0.44	2.60	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.49	U	0.49	2.60	ug/Kg
108-87-2	Methylcyclohexane	0.48	U	0.48	2.60	ug/Kg
71-43-2	Benzene	0.42	U	0.42	2.60	ug/Kg
107-06-2	1,2-Dichloroethane	0.42	U	0.42	2.60	ug/Kg
79-01-6	Trichloroethene	0.43	U	0.43	2.60	ug/Kg
78-87-5	1,2-Dichloropropane	0.48	U	0.48	2.60	ug/Kg
75-27-4	Bromodichloromethane	0.41	U	0.41	2.60	ug/Kg
108-10-1	4-Methyl-2-Pentanone	1.90	U	1.90	13.2	ug/Kg
108-88-3	Toluene	0.41	U	0.41	2.60	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	05/19/25
Project:	South River WM Replacement	Date Received:	05/20/25
Client Sample ID:	TP-16	SDG No.:	Q2100
Lab Sample ID:	Q2100-01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	88.4
Sample Wt/Vol:	10.7 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
VY022416.D	1		05/23/25 19:11	VY052325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.34	U	0.34	2.60	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.33	U	0.33	2.60	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.49	U	0.49	2.60	ug/Kg
591-78-6	2-Hexanone	2.00	U	2.00	13.2	ug/Kg
124-48-1	Dibromochloromethane	0.46	U	0.46	2.60	ug/Kg
106-93-4	1,2-Dibromoethane	0.47	U	0.47	2.60	ug/Kg
127-18-4	Tetrachloroethene	0.56	U	0.56	2.60	ug/Kg
108-90-7	Chlorobenzene	0.48	U	0.48	2.60	ug/Kg
100-41-4	Ethyl Benzene	0.35	U	0.35	2.60	ug/Kg
179601-23-1	m/p-Xylenes	0.66	U	0.66	5.30	ug/Kg
95-47-6	o-Xylene	0.43	U	0.43	2.60	ug/Kg
100-42-5	Styrene	0.38	U	0.38	2.60	ug/Kg
75-25-2	Bromoform	0.45	U	0.45	2.60	ug/Kg
98-82-8	Isopropylbenzene	0.41	U	0.41	2.60	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	0.64	U	0.64	2.60	ug/Kg
541-73-1	1,3-Dichlorobenzene	0.90	U	0.90	2.60	ug/Kg
106-46-7	1,4-Dichlorobenzene	0.82	U	0.82	2.60	ug/Kg
95-50-1	1,2-Dichlorobenzene	0.77	U	0.77	2.60	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	0.97	U	0.97	2.60	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	1.60	U	1.60	2.60	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	1.70	U	1.70	2.60	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	55.5		63 - 155	111%	SPK: 50
1868-53-7	Dibromofluoromethane	51.9		70 - 134	104%	SPK: 50
2037-26-5	Toluene-d8	48.8		74 - 123	98%	SPK: 50
460-00-4	4-Bromofluorobenzene	40.9		38 - 136	82%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	304000	7.713			
540-36-3	1,4-Difluorobenzene	547000	8.622			
3114-55-4	Chlorobenzene-d5	452000	11.42			
3855-82-1	1,4-Dichlorobenzene-d4	170000	13.353			

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Report of Analysis

Client:	CDM Smith	Date Collected:	05/19/25
Project:	South River WM Replacement	Date Received:	05/20/25
Client Sample ID:	TP-16	SDG No.:	Q2100
Lab Sample ID:	Q2100-01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	88.4
Sample Wt/Vol:	10.7 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
VY022416.D	1		05/23/25 19:11	VY052325

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:	CDM Smith	Date Collected:	05/19/25
Project:	South River WM Replacement	Date Received:	05/20/25
Client Sample ID:	TP-22	SDG No.:	Q2100
Lab Sample ID:	Q2100-02	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	84
Sample Wt/Vol:	7.16 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
VY022398.D	1		05/22/25 16:06	VY052225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	0.95	U	0.95	4.20	ug/Kg
74-87-3	Chloromethane	0.95	U	0.95	4.20	ug/Kg
75-01-4	Vinyl Chloride	0.66	U	0.66	4.20	ug/Kg
74-83-9	Bromomethane	0.89	UQ	0.89	4.20	ug/Kg
75-00-3	Chloroethane	1.00	UQ	1.00	4.20	ug/Kg
75-69-4	Trichlorofluoromethane	1.00	U	1.00	4.20	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	0.88	U	0.88	4.20	ug/Kg
75-35-4	1,1-Dichloroethene	0.83	U	0.83	4.20	ug/Kg
67-64-1	Acetone	31.7		3.90	20.8	ug/Kg
75-15-0	Carbon Disulfide	0.88	U	0.88	4.20	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.61	U	0.61	4.20	ug/Kg
79-20-9	Methyl Acetate	1.30	U	1.30	4.20	ug/Kg
75-09-2	Methylene Chloride	2.90	U	2.90	8.30	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.71	U	0.71	4.20	ug/Kg
75-34-3	1,1-Dichloroethane	0.67	U	0.67	4.20	ug/Kg
110-82-7	Cyclohexane	0.66	U	0.66	4.20	ug/Kg
78-93-3	2-Butanone	6.00	J	5.40	20.8	ug/Kg
56-23-5	Carbon Tetrachloride	0.81	U	0.81	4.20	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.62	U	0.62	4.20	ug/Kg
74-97-5	Bromochloromethane	0.96	U	0.96	4.20	ug/Kg
67-66-3	Chloroform	0.70	U	0.70	4.20	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.77	U	0.77	4.20	ug/Kg
108-87-2	Methylcyclohexane	0.76	U	0.76	4.20	ug/Kg
71-43-2	Benzene	21.5		0.66	4.20	ug/Kg
107-06-2	1,2-Dichloroethane	0.66	U	0.66	4.20	ug/Kg
79-01-6	Trichloroethene	0.67	U	0.67	4.20	ug/Kg
78-87-5	1,2-Dichloropropane	0.76	U	0.76	4.20	ug/Kg
75-27-4	Bromodichloromethane	0.65	U	0.65	4.20	ug/Kg
108-10-1	4-Methyl-2-Pentanone	3.00	U	3.00	20.8	ug/Kg
108-88-3	Toluene	0.65	U	0.65	4.20	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	05/19/25
Project:	South River WM Replacement	Date Received:	05/20/25
Client Sample ID:	TP-22	SDG No.:	Q2100
Lab Sample ID:	Q2100-02	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	84
Sample Wt/Vol:	7.16 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
VY022398.D	1		05/22/25 16:06	VY052225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.54	U	0.54	4.20	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.52	U	0.52	4.20	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.76	U	0.76	4.20	ug/Kg
591-78-6	2-Hexanone	3.10	U	3.10	20.8	ug/Kg
124-48-1	Dibromochloromethane	0.72	U	0.72	4.20	ug/Kg
106-93-4	1,2-Dibromoethane	0.73	U	0.73	4.20	ug/Kg
127-18-4	Tetrachloroethene	0.87	U	0.87	4.20	ug/Kg
108-90-7	Chlorobenzene	0.76	U	0.76	4.20	ug/Kg
100-41-4	Ethyl Benzene	0.56	U	0.56	4.20	ug/Kg
179601-23-1	m/p-Xylenes	1.30	J	1.00	8.30	ug/Kg
95-47-6	o-Xylene	0.68	U	0.68	4.20	ug/Kg
100-42-5	Styrene	0.59	U	0.59	4.20	ug/Kg
75-25-2	Bromoform	0.71	U	0.71	4.20	ug/Kg
98-82-8	Isopropylbenzene	0.65	U	0.65	4.20	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.00	U	1.00	4.20	ug/Kg
541-73-1	1,3-Dichlorobenzene	1.40	U	1.40	4.20	ug/Kg
106-46-7	1,4-Dichlorobenzene	1.30	U	1.30	4.20	ug/Kg
95-50-1	1,2-Dichlorobenzene	1.20	U	1.20	4.20	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1.50	U	1.50	4.20	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	2.50	U	2.50	4.20	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	2.60	U	2.60	4.20	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	46.6		63 - 155	93%	SPK: 50
1868-53-7	Dibromofluoromethane	48.6		70 - 134	97%	SPK: 50
2037-26-5	Toluene-d8	48.7		74 - 123	97%	SPK: 50
460-00-4	4-Bromofluorobenzene	38.3		38 - 136	77%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	231000	7.719			
540-36-3	1,4-Difluorobenzene	414000	8.622			
3114-55-4	Chlorobenzene-d5	326000	11.42			
3855-82-1	1,4-Dichlorobenzene-d4	120000	13.352			
TENTATIVE IDENTIFIED COMPOUNDS						

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Report of Analysis

Client:	CDM Smith	Date Collected:	05/19/25
Project:	South River WM Replacement	Date Received:	05/20/25
Client Sample ID:	TP-22	SDG No.:	Q2100
Lab Sample ID:	Q2100-02	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	84
Sample Wt/Vol:	7.16 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
VY022398.D	1		05/22/25 16:06	VY052225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
000106-97-8	Butane	6.00	J		2.20	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:	CDM Smith	Date Collected:	05/20/25
Project:	South River WM Replacement	Date Received:	05/20/25
Client Sample ID:	TP-21	SDG No.:	Q2100
Lab Sample ID:	Q2100-03	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	78.2
Sample Wt/Vol:	7.01 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
VY022413.D	1		05/23/25 18:01	VY052325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	1.00	U	1.00	4.60	ug/Kg
74-87-3	Chloromethane	1.00	U	1.00	4.60	ug/Kg
75-01-4	Vinyl Chloride	0.72	U	0.72	4.60	ug/Kg
74-83-9	Bromomethane	0.98	UQ	0.98	4.60	ug/Kg
75-00-3	Chloroethane	1.10	UQ	1.10	4.60	ug/Kg
75-69-4	Trichlorofluoromethane	1.10	U	1.10	4.60	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	0.97	U	0.97	4.60	ug/Kg
75-35-4	1,1-Dichloroethene	0.91	U	0.91	4.60	ug/Kg
67-64-1	Acetone	4.30	UQ	4.30	22.8	ug/Kg
75-15-0	Carbon Disulfide	0.97	U	0.97	4.60	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.67	U	0.67	4.60	ug/Kg
79-20-9	Methyl Acetate	1.40	U	1.40	4.60	ug/Kg
75-09-2	Methylene Chloride	3.20	U	3.20	9.10	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.78	U	0.78	4.60	ug/Kg
75-34-3	1,1-Dichloroethane	0.73	U	0.73	4.60	ug/Kg
110-82-7	Cyclohexane	0.72	U	0.72	4.60	ug/Kg
78-93-3	2-Butanone	6.00	U	6.00	22.8	ug/Kg
56-23-5	Carbon Tetrachloride	0.88	U	0.88	4.60	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.68	U	0.68	4.60	ug/Kg
74-97-5	Bromochloromethane	1.00	U	1.00	4.60	ug/Kg
67-66-3	Chloroform	0.77	U	0.77	4.60	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.85	U	0.85	4.60	ug/Kg
108-87-2	Methylcyclohexane	0.83	U	0.83	4.60	ug/Kg
71-43-2	Benzene	0.72	U	0.72	4.60	ug/Kg
107-06-2	1,2-Dichloroethane	0.72	U	0.72	4.60	ug/Kg
79-01-6	Trichloroethene	0.74	U	0.74	4.60	ug/Kg
78-87-5	1,2-Dichloropropane	0.83	U	0.83	4.60	ug/Kg
75-27-4	Bromodichloromethane	0.71	U	0.71	4.60	ug/Kg
108-10-1	4-Methyl-2-Pentanone	3.30	U	3.30	22.8	ug/Kg
108-88-3	Toluene	0.71	U	0.71	4.60	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	05/20/25
Project:	South River WM Replacement	Date Received:	05/20/25
Client Sample ID:	TP-21	SDG No.:	Q2100
Lab Sample ID:	Q2100-03	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	78.2
Sample Wt/Vol:	7.01 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
VY022413.D	1		05/23/25 18:01	VY052325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.59	U	0.59	4.60	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.57	U	0.57	4.60	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.84	U	0.84	4.60	ug/Kg
591-78-6	2-Hexanone	3.40	U	3.40	22.8	ug/Kg
124-48-1	Dibromochloromethane	0.79	U	0.79	4.60	ug/Kg
106-93-4	1,2-Dibromoethane	0.80	U	0.80	4.60	ug/Kg
127-18-4	Tetrachloroethene	0.96	U	0.96	4.60	ug/Kg
108-90-7	Chlorobenzene	0.83	U	0.83	4.60	ug/Kg
100-41-4	Ethyl Benzene	0.61	U	0.61	4.60	ug/Kg
179601-23-1	m/p-Xylenes	1.10	U	1.10	9.10	ug/Kg
95-47-6	o-Xylene	0.75	U	0.75	4.60	ug/Kg
100-42-5	Styrene	0.65	U	0.65	4.60	ug/Kg
75-25-2	Bromoform	0.78	U	0.78	4.60	ug/Kg
98-82-8	Isopropylbenzene	0.71	U	0.71	4.60	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.10	U	1.10	4.60	ug/Kg
541-73-1	1,3-Dichlorobenzene	1.60	U	1.60	4.60	ug/Kg
106-46-7	1,4-Dichlorobenzene	1.40	U	1.40	4.60	ug/Kg
95-50-1	1,2-Dichlorobenzene	1.30	U	1.30	4.60	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1.70	U	1.70	4.60	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	2.70	U	2.70	4.60	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	2.90	U	2.90	4.60	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	48.8		63 - 155	98%	SPK: 50
1868-53-7	Dibromofluoromethane	50.0		70 - 134	100%	SPK: 50
2037-26-5	Toluene-d8	47.9		74 - 123	96%	SPK: 50
460-00-4	4-Bromofluorobenzene	37.3		38 - 136	75%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	341000	7.713			
540-36-3	1,4-Difluorobenzene	608000	8.616			
3114-55-4	Chlorobenzene-d5	471000	11.42			
3855-82-1	1,4-Dichlorobenzene-d4	165000	13.347			

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Report of Analysis

Client:	CDM Smith	Date Collected:	05/20/25
Project:	South River WM Replacement	Date Received:	05/20/25
Client Sample ID:	TP-21	SDG No.:	Q2100
Lab Sample ID:	Q2100-03	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	78.2
Sample Wt/Vol:	7.01 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
VY022413.D	1		05/23/25 18:01	VY052325

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:	CDM Smith	Date Collected:	05/20/25
Project:	South River WM Replacement	Date Received:	05/20/25
Client Sample ID:	TP-45	SDG No.:	Q2100
Lab Sample ID:	Q2100-04	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	76.2
Sample Wt/Vol:	6.98 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
VY022400.D	1		05/22/25 16:53	VY052225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	1.10	U	1.10	4.70	ug/Kg
74-87-3	Chloromethane	1.10	U	1.10	4.70	ug/Kg
75-01-4	Vinyl Chloride	0.74	U	0.74	4.70	ug/Kg
74-83-9	Bromomethane	1.00	UQ	1.00	4.70	ug/Kg
75-00-3	Chloroethane	1.20	UQ	1.20	4.70	ug/Kg
75-69-4	Trichlorofluoromethane	1.10	U	1.10	4.70	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	1.00	U	1.00	4.70	ug/Kg
75-35-4	1,1-Dichloroethene	0.94	U	0.94	4.70	ug/Kg
67-64-1	Acetone	7.90	J	4.50	23.5	ug/Kg
75-15-0	Carbon Disulfide	1.00	U	1.00	4.70	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.69	U	0.69	4.70	ug/Kg
79-20-9	Methyl Acetate	1.40	U	1.40	4.70	ug/Kg
75-09-2	Methylene Chloride	3.30	U	3.30	9.40	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.81	U	0.81	4.70	ug/Kg
75-34-3	1,1-Dichloroethane	0.75	U	0.75	4.70	ug/Kg
110-82-7	Cyclohexane	0.74	U	0.74	4.70	ug/Kg
78-93-3	2-Butanone	6.10	U	6.10	23.5	ug/Kg
56-23-5	Carbon Tetrachloride	0.91	U	0.91	4.70	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.71	U	0.71	4.70	ug/Kg
74-97-5	Bromochloromethane	1.10	U	1.10	4.70	ug/Kg
67-66-3	Chloroform	0.79	U	0.79	4.70	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.87	U	0.87	4.70	ug/Kg
108-87-2	Methylcyclohexane	0.86	U	0.86	4.70	ug/Kg
71-43-2	Benzene	0.74	U	0.74	4.70	ug/Kg
107-06-2	1,2-Dichloroethane	0.74	U	0.74	4.70	ug/Kg
79-01-6	Trichloroethene	0.76	U	0.76	4.70	ug/Kg
78-87-5	1,2-Dichloropropane	0.86	U	0.86	4.70	ug/Kg
75-27-4	Bromodichloromethane	0.73	U	0.73	4.70	ug/Kg
108-10-1	4-Methyl-2-Pentanone	3.40	U	3.40	23.5	ug/Kg
108-88-3	Toluene	0.73	U	0.73	4.70	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	05/20/25
Project:	South River WM Replacement	Date Received:	05/20/25
Client Sample ID:	TP-45	SDG No.:	Q2100
Lab Sample ID:	Q2100-04	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	76.2
Sample Wt/Vol:	6.98 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
VY022400.D	1		05/22/25 16:53	VY052225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.61	U	0.61	4.70	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.58	U	0.58	4.70	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.86	U	0.86	4.70	ug/Kg
591-78-6	2-Hexanone	3.50	U	3.50	23.5	ug/Kg
124-48-1	Dibromochloromethane	0.82	U	0.82	4.70	ug/Kg
106-93-4	1,2-Dibromoethane	0.83	U	0.83	4.70	ug/Kg
127-18-4	Tetrachloroethene	0.99	U	0.99	4.70	ug/Kg
108-90-7	Chlorobenzene	0.86	U	0.86	4.70	ug/Kg
100-41-4	Ethyl Benzene	0.63	U	0.63	4.70	ug/Kg
179601-23-1	m/p-Xylenes	1.20	U	1.20	9.40	ug/Kg
95-47-6	o-Xylene	0.77	U	0.77	4.70	ug/Kg
100-42-5	Styrene	0.67	U	0.67	4.70	ug/Kg
75-25-2	Bromoform	0.81	U	0.81	4.70	ug/Kg
98-82-8	Isopropylbenzene	0.73	U	0.73	4.70	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.10	U	1.10	4.70	ug/Kg
541-73-1	1,3-Dichlorobenzene	1.60	U	1.60	4.70	ug/Kg
106-46-7	1,4-Dichlorobenzene	1.50	U	1.50	4.70	ug/Kg
95-50-1	1,2-Dichlorobenzene	1.40	U	1.40	4.70	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1.70	U	1.70	4.70	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	2.80	U	2.80	4.70	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	3.00	U	3.00	4.70	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	50.5		63 - 155	101%	SPK: 50
1868-53-7	Dibromofluoromethane	51.5		70 - 134	103%	SPK: 50
2037-26-5	Toluene-d8	48.7		74 - 123	97%	SPK: 50
460-00-4	4-Bromofluorobenzene	39.7		38 - 136	79%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	236000	7.719			
540-36-3	1,4-Difluorobenzene	418000	8.622			
3114-55-4	Chlorobenzene-d5	340000	11.42			
3855-82-1	1,4-Dichlorobenzene-d4	124000	13.353			

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Report of Analysis

Client:	CDM Smith	Date Collected:	05/20/25
Project:	South River WM Replacement	Date Received:	05/20/25
Client Sample ID:	TP-45	SDG No.:	Q2100
Lab Sample ID:	Q2100-04	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	76.2
Sample Wt/Vol:	6.98 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
VY022400.D	1		05/22/25 16:53	VY052225

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

SDG No.: Q2100

Client: CDM Smith

Analytical Method: SW8260D

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits Low	Limits High
Q2100-01	TP-16	1,2-Dichloroethane-d4	50	55.5	111	63	155
		Dibromofluoromethane	50	51.9	104	70	134
		Toluene-d8	50	48.8	98	74	123
		4-Bromofluorobenzene	50	40.9	82	38	136
Q2100-02	TP-22	1,2-Dichloroethane-d4	50	46.6	93	63	155
		Dibromofluoromethane	50	48.6	97	70	134
		Toluene-d8	50	48.7	97	74	123
		4-Bromofluorobenzene	50	38.3	77	38	136
Q2100-03	TP-21	1,2-Dichloroethane-d4	50	48.8	98	63	155
		Dibromofluoromethane	50	50.0	100	70	134
		Toluene-d8	50	47.9	96	74	123
		4-Bromofluorobenzene	50	37.3	75	38	136
Q2100-04	TP-45	1,2-Dichloroethane-d4	50	50.5	101	63	155
		Dibromofluoromethane	50	51.5	103	70	134
		Toluene-d8	50	48.7	97	74	123
		4-Bromofluorobenzene	50	39.7	79	38	136
VY0522SBL01	VY0522SBL01	1,2-Dichloroethane-d4	50	48.9	98	63	155
		Dibromofluoromethane	50	49.8	100	70	134
		Toluene-d8	50	48.7	97	74	123
		4-Bromofluorobenzene	50	39.5	79	38	136
VY0522SBS01	VY0522SBS01	1,2-Dichloroethane-d4	50	48.4	97	63	155
		Dibromofluoromethane	50	50.3	101	70	134
		Toluene-d8	50	50.3	101	74	123
		4-Bromofluorobenzene	50	47.7	95	38	136
VY0522SBSD01	VY0522SBSD01	1,2-Dichloroethane-d4	50	50.4	101	63	155
		Dibromofluoromethane	50	51.0	102	70	134
		Toluene-d8	50	49.9	100	74	123
		4-Bromofluorobenzene	50	47.1	94	38	136
VY0523SBL01	VY0523SBL01	1,2-Dichloroethane-d4	50	56.1	112	63	155
		Dibromofluoromethane	50	56.7	113	70	134
		Toluene-d8	50	54.7	109	74	123
		4-Bromofluorobenzene	50	44.0	88	38	136
VY0523SBS01	VY0523SBS01	1,2-Dichloroethane-d4	50	50.7	101	63	155
		Dibromofluoromethane	50	53.6	107	70	134
		Toluene-d8	50	53.5	107	74	123
		4-Bromofluorobenzene	50	48.8	98	38	136

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2100

Client: CDM Smith

Analytical Method: SW8260D **Datafile :** VY022382.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VY0522SBS01	Dichlorodifluoromethane	20	19.6	ug/Kg	98			64	136	
	Chloromethane	20	23.3	ug/Kg	117			70	130	
	Vinyl chloride	20	24.9	ug/Kg	125			72	129	
	Bromomethane	20	34.5	ug/Kg	173		*	58	141	
	Chloroethane	20	28.5	ug/Kg	143		*	69	130	
	Trichlorofluoromethane	20	23.4	ug/Kg	117			69	134	
	1,1,2-Trichlorotrifluoroethane	20	20.9	ug/Kg	104			81	123	
	1,1-Dichloroethene	20	20.5	ug/Kg	103			79	121	
	Acetone	100	110	ug/Kg	110			60	131	
	Carbon disulfide	20	19.3	ug/Kg	97			45	154	
	Methyl tert-butyl Ether	20	19.6	ug/Kg	98			77	129	
	Methyl Acetate	20	16.6	ug/Kg	83			69	149	
	Methylene Chloride	20	19.0	ug/Kg	95			56	174	
	trans-1,2-Dichloroethene	20	19.7	ug/Kg	99			80	123	
	1,1-Dichloroethane	20	19.4	ug/Kg	97			82	123	
	Cyclohexane	20	18.7	ug/Kg	94			76	122	
	2-Butanone	100	95.4	ug/Kg	95			69	131	
	Carbon Tetrachloride	20	19.8	ug/Kg	99			76	129	
	cis-1,2-Dichloroethene	20	19.9	ug/Kg	100			82	123	
	Bromochloromethane	20	18.6	ug/Kg	93			80	127	
	Chloroform	20	20.1	ug/Kg	101			82	125	
	1,1,1-Trichloroethane	20	19.5	ug/Kg	98			80	126	
	Methylcyclohexane	20	19.2	ug/Kg	96			77	123	
	Benzene	20	19.5	ug/Kg	98			84	121	
	1,2-Dichloroethane	20	19.1	ug/Kg	96			81	126	
	Trichloroethene	20	20.1	ug/Kg	101			83	122	
	1,2-Dichloropropane	20	19.1	ug/Kg	96			83	122	
	Bromodichloromethane	20	19.3	ug/Kg	97			82	123	
	4-Methyl-2-Pentanone	100	88.9	ug/Kg	89			70	135	
	Toluene	20	19.4	ug/Kg	97			83	122	
	t-1,3-Dichloropropene	20	18.5	ug/Kg	93			78	124	
	cis-1,3-Dichloropropene	20	18.8	ug/Kg	94			81	122	
	1,1,2-Trichloroethane	20	19.6	ug/Kg	98			82	125	
	2-Hexanone	100	89.5	ug/Kg	90			66	138	
	Dibromochloromethane	20	19.9	ug/Kg	100			79	125	
	1,2-Dibromoethane	20	19.6	ug/Kg	98			80	125	
	Tetrachloroethene	20	19.9	ug/Kg	100			83	125	
	Chlorobenzene	20	19.7	ug/Kg	99			84	122	
	Ethyl Benzene	20	18.7	ug/Kg	94			82	124	
	m/p-Xylenes	40	38.0	ug/Kg	95			83	124	
	o-Xylene	20	18.8	ug/Kg	94			83	123	
	Styrene	20	19.0	ug/Kg	95			82	124	
	Bromoform	20	19.2	ug/Kg	96			75	127	
	Isopropylbenzene	20	19.3	ug/Kg	97			82	124	
	1,1,2,2-Tetrachloroethane	20	19.8	ug/Kg	99			77	127	
	1,3-Dichlorobenzene	20	18.9	ug/Kg	95			83	122	
	1,4-Dichlorobenzene	20	19.0	ug/Kg	95			84	121	
	1,2-Dichlorobenzene	20	19.1	ug/Kg	96			83	124	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2100

Client: CDM Smith

Analytical Method: SW8260D **Datafile :** VY022382.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VY0522SBS01	1,2-Dibromo-3-Chloropropane	20	19.6	ug/Kg	98			66	134	
	1,2,4-Trichlorobenzene	20	19.5	ug/Kg	98			78	127	
	1,2,3-Trichlorobenzene	20	19.2	ug/Kg	96			70	137	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2100

Client: CDM Smith

Analytical Method: SW8260D **Datafile :** VY022383.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VY0522SBSD01	Dichlorodifluoromethane	20	20.2	ug/Kg	101	3		64	136	20
	Chloromethane	20	23.2	ug/Kg	116	1		70	130	20
	Vinyl chloride	20	25.4	ug/Kg	127	2		72	129	20
	Bromomethane	20	33.4	ug/Kg	167	4	*	58	141	20
	Chloroethane	20	28.3	ug/Kg	142	1	*	69	130	20
	Trichlorofluoromethane	20	21.1	ug/Kg	106	10		69	134	20
	1,1,2-Trichlorotrifluoroethane	20	21.3	ug/Kg	106	2		81	123	20
	1,1-Dichloroethene	20	20.8	ug/Kg	104	1		79	121	20
	Acetone	100	93.4	ug/Kg	93	17		60	131	20
	Carbon disulfide	20	19.7	ug/Kg	99	2		45	154	20
	Methyl tert-butyl Ether	20	21.1	ug/Kg	106	8		77	129	20
	Methyl Acetate	20	19.3	ug/Kg	97	16		69	149	20
	Methylene Chloride	20	19.0	ug/Kg	95	0		56	174	20
	trans-1,2-Dichloroethene	20	20.1	ug/Kg	101	2		80	123	20
	1,1-Dichloroethane	20	20.3	ug/Kg	102	5		82	123	20
	Cyclohexane	20	18.8	ug/Kg	94	0		76	122	20
	2-Butanone	100	97.2	ug/Kg	97	2		69	131	20
	Carbon Tetrachloride	20	19.5	ug/Kg	98	1		76	129	20
	cis-1,2-Dichloroethene	20	20.7	ug/Kg	104	4		82	123	20
	Bromochloromethane	20	20.3	ug/Kg	102	9		80	127	20
	Chloroform	20	20.7	ug/Kg	104	3		82	125	20
	1,1,1-Trichloroethane	20	20.5	ug/Kg	103	5		80	126	20
	Methylcyclohexane	20	19.6	ug/Kg	98	2		77	123	20
	Benzene	20	20.1	ug/Kg	101	3		84	121	20
	1,2-Dichloroethane	20	20.3	ug/Kg	102	6		81	126	20
	Trichloroethene	20	20.3	ug/Kg	102	1		83	122	20
	1,2-Dichloropropane	20	19.7	ug/Kg	99	3		83	122	20
	Bromodichloromethane	20	19.9	ug/Kg	100	3		82	123	20
	4-Methyl-2-Pentanone	100	97.6	ug/Kg	98	10		70	135	20
	Toluene	20	19.4	ug/Kg	97	0		83	122	20
	t-1,3-Dichloropropene	20	19.4	ug/Kg	97	4		78	124	20
	cis-1,3-Dichloropropene	20	19.7	ug/Kg	99	5		81	122	20
	1,1,2-Trichloroethane	20	20.8	ug/Kg	104	6		82	125	20
	2-Hexanone	100	95.7	ug/Kg	96	6		66	138	20
	Dibromochloromethane	20	20.4	ug/Kg	102	2		79	125	20
	1,2-Dibromoethane	20	20.2	ug/Kg	101	3		80	125	20
	Tetrachloroethene	20	20.9	ug/Kg	104	4		83	125	20
	Chlorobenzene	20	20.4	ug/Kg	102	3		84	122	20
	Ethyl Benzene	20	19.6	ug/Kg	98	4		82	124	20
	m/p-Xylenes	40	39.7	ug/Kg	99	4		83	124	20
	o-Xylene	20	19.8	ug/Kg	99	5		83	123	20
	Styrene	20	19.9	ug/Kg	100	5		82	124	20
	Bromoform	20	20.8	ug/Kg	104	8		75	127	20
	Isopropylbenzene	20	19.7	ug/Kg	99	2		82	124	20
	1,1,2,2-Tetrachloroethane	20	21.1	ug/Kg	106	7		77	127	20
	1,3-Dichlorobenzene	20	19.8	ug/Kg	99	4		83	122	20
	1,4-Dichlorobenzene	20	20.0	ug/Kg	100	5		84	121	20
	1,2-Dichlorobenzene	20	20.2	ug/Kg	101	5		83	124	20

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2100

Client: CDM Smith

Analytical Method: SW8260D **Datafile :** VY022383.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VY0522SBSD01	1,2-Dibromo-3-Chloropropane	20	21.4	ug/Kg	107	9		66	134	20
	1,2,4-Trichlorobenzene	20	20.0	ug/Kg	100	2		78	127	20
	1,2,3-Trichlorobenzene	20	20.4	ug/Kg	102	6		70	137	20

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2100

Client: CDM Smith

Analytical Method: SW8260D **Datafile :** VY022409.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VY0523SBS01	Dichlorodifluoromethane	20	20.6	ug/Kg	103			64	136	
	Chloromethane	20	24.0	ug/Kg	120			70	130	
	Vinyl chloride	20	25.2	ug/Kg	126			72	129	
	Bromomethane	20	34.5	ug/Kg	173		*	58	141	
	Chloroethane	20	27.1	ug/Kg	136		*	69	130	
	Trichlorofluoromethane	20	22.9	ug/Kg	115			69	134	
	1,1,2-Trichlorotrifluoroethane	20	22.8	ug/Kg	114			81	123	
	1,1-Dichloroethene	20	22.1	ug/Kg	111			79	121	
	Acetone	100	140	ug/Kg	140		*	60	131	
	Carbon disulfide	20	19.9	ug/Kg	100			45	154	
	Methyl tert-butyl Ether	20	20.1	ug/Kg	101			77	129	
	Methyl Acetate	20	15.7	ug/Kg	79			69	149	
	Methylene Chloride	20	19.6	ug/Kg	98			56	174	
	trans-1,2-Dichloroethene	20	20.4	ug/Kg	102			80	123	
	1,1-Dichloroethane	20	20.0	ug/Kg	100			82	123	
	Cyclohexane	20	20.1	ug/Kg	101			76	122	
	2-Butanone	100	110	ug/Kg	110			69	131	
	Carbon Tetrachloride	20	20.9	ug/Kg	104			76	129	
	cis-1,2-Dichloroethene	20	20.5	ug/Kg	103			82	123	
	Bromochloromethane	20	19.7	ug/Kg	99			80	127	
	Chloroform	20	20.5	ug/Kg	103			82	125	
	1,1,1-Trichloroethane	20	20.7	ug/Kg	104			80	126	
	Methylcyclohexane	20	21.4	ug/Kg	107			77	123	
	Benzene	20	20.3	ug/Kg	102			84	121	
	1,2-Dichloroethane	20	19.6	ug/Kg	98			81	126	
	Trichloroethene	20	20.8	ug/Kg	104			83	122	
	1,2-Dichloropropane	20	20.0	ug/Kg	100			83	122	
	Bromodichloromethane	20	20.0	ug/Kg	100			82	123	
	4-Methyl-2-Pentanone	100	92.8	ug/Kg	93			70	135	
	Toluene	20	20.2	ug/Kg	101			83	122	
	t-1,3-Dichloropropene	20	19.6	ug/Kg	98			78	124	
	cis-1,3-Dichloropropene	20	19.7	ug/Kg	99			81	122	
	1,1,2-Trichloroethane	20	20.2	ug/Kg	101			82	125	
	2-Hexanone	100	100	ug/Kg	100			66	138	
	Dibromochloromethane	20	20.4	ug/Kg	102			79	125	
	1,2-Dibromoethane	20	20.7	ug/Kg	104			80	125	
	Tetrachloroethene	20	21.1	ug/Kg	106			83	125	
	Chlorobenzene	20	20.5	ug/Kg	103			84	122	
	Ethyl Benzene	20	20.3	ug/Kg	102			82	124	
	m/p-Xylenes	40	40.6	ug/Kg	102			83	124	
	o-Xylene	20	19.9	ug/Kg	100			83	123	
	Styrene	20	19.8	ug/Kg	99			82	124	
	Bromoform	20	20.0	ug/Kg	100			75	127	
	Isopropylbenzene	20	21.0	ug/Kg	105			82	124	
	1,1,2,2-Tetrachloroethane	20	20.9	ug/Kg	104			77	127	
	1,3-Dichlorobenzene	20	20.2	ug/Kg	101			83	122	
	1,4-Dichlorobenzene	20	20.5	ug/Kg	103			84	121	
	1,2-Dichlorobenzene	20	20.5	ug/Kg	103			83	124	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2100

Client: CDM Smith

Analytical Method: SW8260D **Datafile :** VY022409.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VY0523SBS01	1,2-Dibromo-3-Chloropropane	20	20.3	ug/Kg	102			66	134	
	1,2,4-Trichlorobenzene	20	19.3	ug/Kg	97			78	127	
	1,2,3-Trichlorobenzene	20	19.0	ug/Kg	95			70	137	

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VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VY0522SBL01

Lab Name: CHEMTECH Contract: CAMP02

Lab Code: CHEM Case No.: Q2100 SAS No.: Q2100 SDG NO.: Q2100

Lab File ID: VY022381.D Lab Sample ID: VY0522SBL01

Date Analyzed: 05/22/2025 Time Analyzed: 09:07

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
VY0522SBS01	VY0522SBS01	VY022382.D	05/22/2025
VY0522SBSD01	VY0522SBSD01	VY022383.D	05/22/2025
TP-22	Q2100-02	VY022398.D	05/22/2025
TP-45	Q2100-04	VY022400.D	05/22/2025

COMMENTS:

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VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VY0523SBL01

Lab Name: CHEMTECH Contract: CAMP02

Lab Code: CHEM Case No.: Q2100 SAS No.: Q2100 SDG NO.: Q2100

Lab File ID: VY022408.D Lab Sample ID: VY0523SBL01

Date Analyzed: 05/23/2025 Time Analyzed: 15:26

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
VY0523SBS01	VY0523SBS01	VY022409.D	05/23/2025
TP-21	Q2100-03	VY022413.D	05/23/2025
TP-16	Q2100-01	VY022416.D	05/23/2025

COMMENTS:

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: CAMP02

Lab Code: CHEM Case No.: Q2100 SAS No.: Q2100 SDG NO.: Q2100

Lab File ID: VY022252.D BFB Injection Date: 05/15/2025

Instrument ID: MSVOA_Y BFB Injection Time: 07:52

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	24
75	30.0 - 60.0% of mass 95	55.9
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.8
173	Less than 2.0% of mass 174	0.7 (0.9) 1
174	50.0 - 100.0% of mass 95	80.5
175	5.0 - 9.0% of mass 174	5.9 (7.3) 1
176	95.0 - 101.0% of mass 174	77.5 (96.3) 1
177	5.0 - 9.0% of mass 176	5.3 (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
VSTDICC005	VSTDICC005	VY022253.D	05/15/2025	09:46
VSTDICC010	VSTDICC010	VY022254.D	05/15/2025	10:16
VSTDICC020	VSTDICC020	VY022255.D	05/15/2025	10:39
VSTDICCC050	VSTDICCC050	VY022256.D	05/15/2025	11:02
VSTDICC100	VSTDICC100	VY022257.D	05/15/2025	11:24
VSTDICC150	VSTDICC150	VY022258.D	05/15/2025	11:47

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: CAMP02

Lab Code: CHEM Case No.: Q2100 SAS No.: Q2100 SDG NO.: Q2100

Lab File ID: VY022379.D BFB Injection Date: 05/22/2025

Instrument ID: MSVOA_Y BFB Injection Time: 08:05

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	24.1
75	30.0 - 60.0% of mass 95	57.8
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.7
173	Less than 2.0% of mass 174	1.1 (1.3) 1
174	50.0 - 100.0% of mass 95	86.1
175	5.0 - 9.0% of mass 174	6.4 (7.5) 1
176	95.0 - 101.0% of mass 174	83.8 (97.4) 1
177	5.0 - 9.0% of mass 176	5.5 (6.5) 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	VY022380.D	05/22/2025	08:35
VY0522SBL01	VY0522SBL01	VY022381.D	05/22/2025	09:07
VY0522SBS01	VY0522SBS01	VY022382.D	05/22/2025	09:36
VY0522SBSD01	VY0522SBSD01	VY022383.D	05/22/2025	09:59
TP-22	Q2100-02	VY022398.D	05/22/2025	16:06
TP-45	Q2100-04	VY022400.D	05/22/2025	16:53

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: CAMP02

Lab Code: CHEM Case No.: Q2100 SAS No.: Q2100 SDG NO.: Q2100

Lab File ID: VY022406.D BFB Injection Date: 05/23/2025

Instrument ID: MSVOA_Y BFB Injection Time: 11:40

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	23.6
75	30.0 - 60.0% of mass 95	58.2
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.7
173	Less than 2.0% of mass 174	1 (1.2) 1
174	50.0 - 100.0% of mass 95	89
175	5.0 - 9.0% of mass 174	6.7 (7.6) 1
176	95.0 - 101.0% of mass 174	86.3 (97) 1
177	5.0 - 9.0% of mass 176	5.7 (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
VSTDCCC050	VSTDCCC050	VY022407.D	05/23/2025	14:34
VY0523SBL01	VY0523SBL01	VY022408.D	05/23/2025	15:26
VY0523SBS01	VY0523SBS01	VY022409.D	05/23/2025	16:28
TP-21	Q2100-03	VY022413.D	05/23/2025	18:01
TP-16	Q2100-01	VY022416.D	05/23/2025	19:11

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: CAMP02

Lab Code: CHEM Case No.: Q2100 SAS No.: Q2100 SDG NO.: Q2100

Lab File ID: VY022380.D Date Analyzed: 05/22/2025

Instrument ID: MSVOA_Y Time Analyzed: 08:35

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	161495	7.72	274168	8.62	235238	11.42
UPPER LIMIT	322990	8.22	548336	9.122	470476	11.92
LOWER LIMIT	80747.5	7.22	137084	8.122	117619	10.92
EPA SAMPLE NO.						
TP-22	231359	7.72	414060	8.62	325678	11.42
TP-45	236218	7.72	418190	8.62	340404	11.42
VY0522SBL01	263712	7.72	465826	8.62	376365	11.42
VY0522SBS01	174604	7.72	293942	8.62	250842	11.42
VY0522SBSD01	165702	7.71	283052	8.62	236945	11.42

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: CAMP02

Lab Code: CHEM Case No.: Q2100 SAS No.: Q2100 SDG NO.: Q2100

Lab File ID: VY022380.D Date Analyzed: 05/22/2025

Instrument ID: MSVOA_Y Time Analyzed: 08:35

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

	IS4 AREA #	RT #				
12 HOUR STD	110586	13.353				
UPPER LIMIT	221172	13.853				
LOWER LIMIT	55293	12.853				
EPA SAMPLE NO.						
TP-22	119664	13.35				
TP-45	124499	13.35				
VY0522SBL01	137350	13.35				
VY0522SBS01	118480	13.35				
VY0522SBSD01	112772	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.

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: CAMP02

Lab Code: CHEM Case No.: Q2100 SAS No.: Q2100 SDG NO.: Q2100

Lab File ID: VY022407.D Date Analyzed: 05/23/2025

Instrument ID: MSVOA_Y Time Analyzed: 14:34

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	221240	7.72	368290	8.62	319713	11.42
UPPER LIMIT	442480	8.219	736580	9.122	639426	11.92
LOWER LIMIT	110620	7.219	184145	8.122	159857	10.92
EPA SAMPLE NO.						
TP-16	303749	7.71	546937	8.62	451641	11.42
TP-21	340717	7.71	608366	8.62	471350	11.42
VY0523SBL01	328707	7.71	590839	8.62	465211	11.42
VY0523SBS01	220484	7.71	365163	8.62	306453	11.42

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: CAMP02

Lab Code: CHEM Case No.: Q2100 SAS No.: Q2100 SDG NO.: Q2100

Lab File ID: VY022407.D Date Analyzed: 05/23/2025

Instrument ID: MSVOA_Y Time Analyzed: 14:34

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

	IS4 AREA #	RT #				
12 HOUR STD	156128	13.352				
UPPER LIMIT	312256	13.852				
LOWER LIMIT	78064	12.852				
EPA SAMPLE NO.						
TP-16	169695	13.35				
TP-21	165102	13.35				
VY0523SBL01	167300	13.35				
VY0523SBS01	141917	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

Alliance TECHNICAL GROUP
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Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VY0522SBL01	SDG No.:	Q2100
Lab Sample ID:	VY0522SBL01	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
VY022381.D	1		05/22/25 09:07	VY052225

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:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VY0522SBL01	SDG No.:	Q2100
Lab Sample ID:	VY0522SBL01	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
VY022381.D	1		05/22/25 09:07	VY052225

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	48.9		63 - 155	98%	SPK: 50
1868-53-7	Dibromofluoromethane	49.8		70 - 134	100%	SPK: 50
2037-26-5	Toluene-d8	48.7		74 - 123	97%	SPK: 50
460-00-4	4-Bromofluorobenzene	39.5		38 - 136	79%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	264000	7.719			
540-36-3	1,4-Difluorobenzene	466000	8.622			
3114-55-4	Chlorobenzene-d5	376000	11.42			
3855-82-1	1,4-Dichlorobenzene-d4	137000	13.353			

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Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VY0522SBL01	SDG No.:	Q2100
Lab Sample ID:	VY0522SBL01	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
VY022381.D	1		05/22/25 09:07	VY052225

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:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VY0523SBL01	SDG No.:	Q2100
Lab Sample ID:	VY0523SBL01	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
VY022408.D	1		05/23/25 15:26	VY052325

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:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VY0523SBL01	SDG No.:	Q2100
Lab Sample ID:	VY0523SBL01	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
VY022408.D	1		05/23/25 15:26	VY052325

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	56.1		63 - 155	112%	SPK: 50
1868-53-7	Dibromofluoromethane	56.7		70 - 134	113%	SPK: 50
2037-26-5	Toluene-d8	54.7		74 - 123	109%	SPK: 50
460-00-4	4-Bromofluorobenzene	44.0		38 - 136	88%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	329000	7.713			
540-36-3	1,4-Difluorobenzene	591000	8.621			
3114-55-4	Chlorobenzene-d5	465000	11.42			
3855-82-1	1,4-Dichlorobenzene-d4	167000	13.352			

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Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VY0523SBL01	SDG No.:	Q2100
Lab Sample ID:	VY0523SBL01	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
VY022408.D	1		05/23/25 15:26	VY052325

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:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VY0522SBS01	SDG No.:	Q2100
Lab Sample ID:	VY0522SBS01	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
VY022382.D	1		05/22/25 09:36	VY052225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	19.6		1.10	5.00	ug/Kg
74-87-3	Chloromethane	23.3		1.10	5.00	ug/Kg
75-01-4	Vinyl Chloride	24.9		0.79	5.00	ug/Kg
74-83-9	Bromomethane	34.5		1.10	5.00	ug/Kg
75-00-3	Chloroethane	28.5		1.30	5.00	ug/Kg
75-69-4	Trichlorofluoromethane	23.4		1.20	5.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	20.9		1.10	5.00	ug/Kg
75-35-4	1,1-Dichloroethene	20.5		1.00	5.00	ug/Kg
67-64-1	Acetone	110		4.70	25.0	ug/Kg
75-15-0	Carbon Disulfide	19.3		1.10	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	19.6		0.73	5.00	ug/Kg
79-20-9	Methyl Acetate	16.6		1.50	5.00	ug/Kg
75-09-2	Methylene Chloride	19.0		3.50	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	19.7		0.86	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	19.4		0.80	5.00	ug/Kg
110-82-7	Cyclohexane	18.7		0.79	5.00	ug/Kg
78-93-3	2-Butanone	95.4		6.50	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	19.8		0.97	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	19.9		0.75	5.00	ug/Kg
74-97-5	Bromochloromethane	18.6		1.20	5.00	ug/Kg
67-66-3	Chloroform	20.1		0.84	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	19.5		0.93	5.00	ug/Kg
108-87-2	Methylcyclohexane	19.2		0.91	5.00	ug/Kg
71-43-2	Benzene	19.5		0.79	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	19.1		0.79	5.00	ug/Kg
79-01-6	Trichloroethene	20.1		0.81	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	19.1		0.91	5.00	ug/Kg
75-27-4	Bromodichloromethane	19.3		0.78	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	88.9		3.60	25.0	ug/Kg
108-88-3	Toluene	19.4		0.78	5.00	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VY0522SBS01	SDG No.:	Q2100
Lab Sample ID:	VY0522SBS01	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
VY022382.D	1		05/22/25 09:36	VY052225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	18.5		0.65	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	18.8		0.62	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	19.6		0.92	5.00	ug/Kg
591-78-6	2-Hexanone	89.5		3.70	25.0	ug/Kg
124-48-1	Dibromochloromethane	19.9		0.87	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	19.6		0.88	5.00	ug/Kg
127-18-4	Tetrachloroethene	19.9		1.10	5.00	ug/Kg
108-90-7	Chlorobenzene	19.7		0.91	5.00	ug/Kg
100-41-4	Ethyl Benzene	18.7		0.67	5.00	ug/Kg
179601-23-1	m/p-Xylenes	38.0		1.20	10.0	ug/Kg
95-47-6	o-Xylene	18.8		0.82	5.00	ug/Kg
100-42-5	Styrene	19.0		0.71	5.00	ug/Kg
75-25-2	Bromoform	19.2		0.86	5.00	ug/Kg
98-82-8	Isopropylbenzene	19.3		0.78	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	19.8		1.20	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	18.9		1.70	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	19.0		1.60	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	19.1		1.50	5.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	19.6		1.80	5.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	19.5		3.00	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	19.2		3.20	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	48.4		63 - 155	97%	SPK: 50
1868-53-7	Dibromofluoromethane	50.3		70 - 134	101%	SPK: 50
2037-26-5	Toluene-d8	50.3		74 - 123	101%	SPK: 50
460-00-4	4-Bromofluorobenzene	47.7		38 - 136	95%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	175000	7.719			
540-36-3	1,4-Difluorobenzene	294000	8.622			
3114-55-4	Chlorobenzene-d5	251000	11.42			
3855-82-1	1,4-Dichlorobenzene-d4	118000	13.353			

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Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VY0522SBS01	SDG No.:	Q2100
Lab Sample ID:	VY0522SBS01	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
VY022382.D	1		05/22/25 09:36	VY052225

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:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VY0523SBS01	SDG No.:	Q2100
Lab Sample ID:	VY0523SBS01	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
VY022409.D	1		05/23/25 16:28	VY052325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	20.6		1.10	5.00	ug/Kg
74-87-3	Chloromethane	24.0		1.10	5.00	ug/Kg
75-01-4	Vinyl Chloride	25.2		0.79	5.00	ug/Kg
74-83-9	Bromomethane	34.5		1.10	5.00	ug/Kg
75-00-3	Chloroethane	27.1		1.30	5.00	ug/Kg
75-69-4	Trichlorofluoromethane	22.9		1.20	5.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	22.8		1.10	5.00	ug/Kg
75-35-4	1,1-Dichloroethene	22.1		1.00	5.00	ug/Kg
67-64-1	Acetone	140		4.70	25.0	ug/Kg
75-15-0	Carbon Disulfide	19.9		1.10	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	20.1		0.73	5.00	ug/Kg
79-20-9	Methyl Acetate	15.7		1.50	5.00	ug/Kg
75-09-2	Methylene Chloride	19.6		3.50	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	20.4		0.86	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	20.0		0.80	5.00	ug/Kg
110-82-7	Cyclohexane	20.1		0.79	5.00	ug/Kg
78-93-3	2-Butanone	110		6.50	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	20.9		0.97	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	20.5		0.75	5.00	ug/Kg
74-97-5	Bromochloromethane	19.7		1.20	5.00	ug/Kg
67-66-3	Chloroform	20.5		0.84	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	20.7		0.93	5.00	ug/Kg
108-87-2	Methylcyclohexane	21.4		0.91	5.00	ug/Kg
71-43-2	Benzene	20.3		0.79	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	19.6		0.79	5.00	ug/Kg
79-01-6	Trichloroethene	20.8		0.81	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	20.0		0.91	5.00	ug/Kg
75-27-4	Bromodichloromethane	20.0		0.78	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	92.8		3.60	25.0	ug/Kg
108-88-3	Toluene	20.2		0.78	5.00	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VY0523SBS01	SDG No.:	Q2100
Lab Sample ID:	VY0523SBS01	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
VY022409.D	1		05/23/25 16:28	VY052325

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	19.7		0.62	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	20.2		0.92	5.00	ug/Kg
591-78-6	2-Hexanone	100		3.70	25.0	ug/Kg
124-48-1	Dibromochloromethane	20.4		0.87	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	20.7		0.88	5.00	ug/Kg
127-18-4	Tetrachloroethene	21.1		1.10	5.00	ug/Kg
108-90-7	Chlorobenzene	20.5		0.91	5.00	ug/Kg
100-41-4	Ethyl Benzene	20.3		0.67	5.00	ug/Kg
179601-23-1	m/p-Xylenes	40.6		1.20	10.0	ug/Kg
95-47-6	o-Xylene	19.9		0.82	5.00	ug/Kg
100-42-5	Styrene	19.8		0.71	5.00	ug/Kg
75-25-2	Bromoform	20.0		0.86	5.00	ug/Kg
98-82-8	Isopropylbenzene	21.0		0.78	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	20.9		1.20	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	20.2		1.70	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	20.5		1.60	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	20.5		1.50	5.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	20.3		1.80	5.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	19.3		3.00	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	19.0		3.20	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	50.7		63 - 155	101%	SPK: 50
1868-53-7	Dibromofluoromethane	53.6		70 - 134	107%	SPK: 50
2037-26-5	Toluene-d8	53.5		74 - 123	107%	SPK: 50
460-00-4	4-Bromofluorobenzene	48.8		38 - 136	98%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	220000	7.713			
540-36-3	1,4-Difluorobenzene	365000	8.621			
3114-55-4	Chlorobenzene-d5	306000	11.42			
3855-82-1	1,4-Dichlorobenzene-d4	142000	13.352			

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Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VY0523SBS01	SDG No.:	Q2100
Lab Sample ID:	VY0523SBS01	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
VY022409.D	1		05/23/25 16:28	VY052325

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:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VY0522SBSD01	SDG No.:	Q2100
Lab Sample ID:	VY0522SBSD01	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
VY022383.D	1		05/22/25 09:59	VY052225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	20.2		1.10	5.00	ug/Kg
74-87-3	Chloromethane	23.2		1.10	5.00	ug/Kg
75-01-4	Vinyl Chloride	25.4		0.79	5.00	ug/Kg
74-83-9	Bromomethane	33.4		1.10	5.00	ug/Kg
75-00-3	Chloroethane	28.3		1.30	5.00	ug/Kg
75-69-4	Trichlorofluoromethane	21.1		1.20	5.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	21.3		1.10	5.00	ug/Kg
75-35-4	1,1-Dichloroethene	20.8		1.00	5.00	ug/Kg
67-64-1	Acetone	93.4		4.70	25.0	ug/Kg
75-15-0	Carbon Disulfide	19.7		1.10	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	21.1		0.73	5.00	ug/Kg
79-20-9	Methyl Acetate	19.3		1.50	5.00	ug/Kg
75-09-2	Methylene Chloride	19.0		3.50	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	20.1		0.86	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	20.3		0.80	5.00	ug/Kg
110-82-7	Cyclohexane	18.8		0.79	5.00	ug/Kg
78-93-3	2-Butanone	97.2		6.50	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	19.5		0.97	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	20.7		0.75	5.00	ug/Kg
74-97-5	Bromochloromethane	20.3		1.20	5.00	ug/Kg
67-66-3	Chloroform	20.7		0.84	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	20.5		0.93	5.00	ug/Kg
108-87-2	Methylcyclohexane	19.6		0.91	5.00	ug/Kg
71-43-2	Benzene	20.1		0.79	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	20.3		0.79	5.00	ug/Kg
79-01-6	Trichloroethene	20.3		0.81	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	19.7		0.91	5.00	ug/Kg
75-27-4	Bromodichloromethane	19.9		0.78	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	97.6		3.60	25.0	ug/Kg
108-88-3	Toluene	19.4		0.78	5.00	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VY0522SBSD01	SDG No.:	Q2100
Lab Sample ID:	VY0522SBSD01	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
VY022383.D	1		05/22/25 09:59	VY052225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	19.4		0.65	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	19.7		0.62	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	20.8		0.92	5.00	ug/Kg
591-78-6	2-Hexanone	95.7		3.70	25.0	ug/Kg
124-48-1	Dibromochloromethane	20.4		0.87	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	20.2		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	19.6		0.67	5.00	ug/Kg
179601-23-1	m/p-Xylenes	39.7		1.20	10.0	ug/Kg
95-47-6	o-Xylene	19.8		0.82	5.00	ug/Kg
100-42-5	Styrene	19.9		0.71	5.00	ug/Kg
75-25-2	Bromoform	20.8		0.86	5.00	ug/Kg
98-82-8	Isopropylbenzene	19.7		0.78	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	21.1		1.20	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	19.8		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	20.2		1.50	5.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	21.4		1.80	5.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	20.0		3.00	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	20.4		3.20	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	50.4		63 - 155	101%	SPK: 50
1868-53-7	Dibromofluoromethane	51.0		70 - 134	102%	SPK: 50
2037-26-5	Toluene-d8	49.9		74 - 123	100%	SPK: 50
460-00-4	4-Bromofluorobenzene	47.1		38 - 136	94%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	166000	7.713			
540-36-3	1,4-Difluorobenzene	283000	8.621			
3114-55-4	Chlorobenzene-d5	237000	11.42			
3855-82-1	1,4-Dichlorobenzene-d4	113000	13.352			

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Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VY0522SBSD01	SDG No.:	Q2100
Lab Sample ID:	VY0522SBSD01	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
VY022383.D	1		05/22/25 09:59	VY052225

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
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VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: CAMP02

Lab Code: CHEM Case No.: Q2100 SAS No.: Q2100 SDG No.: Q2100

Instrument ID: MSVOA_Y Calibration Date(s): 05/15/2025 05/15/2025

Heated Purge: (Y/N) Y Calibration Time(s): 09:46 11:47

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

LAB FILE ID: RRF005 = VY022253.D RRF010 = VY022254.D RRF020 = VY022255.D
RRF050 = VY022256.D RRF100 = VY022257.D RRF150 = VY022258.D

COMPOUND	RRF005	RRF010	RRF020	RRF050	RRF100	RRF150	$\overline{RRF}$	% RSD
Dichlorodifluoromethane	0.546	0.587	0.541	0.507	0.470	0.479	0.522	8.5
Chloromethane	1.212	1.237	1.153	1.042	1.046	0.894	1.097	11.7
Vinyl Chloride	1.265	1.317	1.264	1.210	1.190	1.110	1.226	5.9
Bromomethane	1.107	1.033	1.058	0.877	0.955	0.959	0.998	8.3
Chloroethane	0.751	0.814	0.796	0.756	0.733	0.727	0.763	4.6
Trichlorofluoromethane	1.254	1.292	1.260	1.214	1.211	1.217	1.241	2.6
1,1,2-Trichlorotrifluoroethane	0.548	0.577	0.544	0.538	0.507	0.520	0.539	4.5
1,1-Dichloroethene	0.545	0.544	0.540	0.539	0.518	0.523	0.535	2.2
Acetone	0.126	0.114	0.096	0.093	0.094	0.092	0.102	13.6
Carbon Disulfide	1.768	1.822	1.764	1.753	1.679	1.679	1.744	3.2
Methyl tert-butyl Ether	1.463	1.523	1.393	1.459	1.504	1.507	1.475	3.2
Methyl Acetate	0.349	0.308	0.286	0.302	0.346	0.347	0.323	8.6
Methylene Chloride	0.797	0.811	0.646	0.597	0.570	0.552	0.662	17.3
trans-1,2-Dichloroethene	0.577	0.609	0.603	0.592	0.580	0.581	0.590	2.2
1,1-Dichloroethane	1.112	1.136	1.099	1.117	1.093	1.082	1.106	1.7
Cyclohexane	1.300	1.191	1.077	1.055	0.998	1.011	1.105	10.6
2-Butanone	0.180	0.181	0.158	0.161	0.174	0.174	0.171	5.6
Carbon Tetrachloride	0.485	0.524	0.494	0.516	0.509	0.524	0.509	3.2
cis-1,2-Dichloroethene	0.662	0.687	0.668	0.691	0.687	0.693	0.681	1.9
Bromochloromethane	0.463	0.484	0.467	0.473	0.469	0.476	0.472	1.6
Chloroform	1.032	1.079	1.067	1.079	1.054	1.057	1.061	1.7
1,1,1-Trichloroethane	1.007	0.997	0.960	0.969	0.944	0.964	0.974	2.4
Methylcyclohexane	0.664	0.678	0.645	0.670	0.639	0.667	0.660	2.3
Benzene	1.369	1.462	1.435	1.499	1.482	1.496	1.457	3.4
1,2-Dichloroethane	0.381	0.399	0.378	0.402	0.403	0.402	0.394	2.9
Trichloroethene	0.358	0.366	0.361	0.371	0.356	0.363	0.362	1.5
1,2-Dichloropropane	0.337	0.361	0.344	0.357	0.354	0.355	0.351	2.6
Bromodichloromethane	0.466	0.494	0.476	0.506	0.504	0.504	0.492	3.4
4-Methyl-2-Pentanone	0.238	0.247	0.230	0.253	0.275	0.275	0.253	7.4
Toluene	0.871	0.924	0.890	0.944	0.947	0.961	0.923	3.8

* 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: CAMP02

Lab Code: CHEM Case No.: Q2100 SAS No.: Q2100 SDG No.: Q2100

Instrument ID: MSVOA_Y Calibration Date(s): 05/15/2025 05/15/2025

Heated Purge: (Y/N) Y Calibration Time(s): 09:46 11:47

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

LAB FILE ID: RRF005 = VY022253.D RRF010 = VY022254.D RRF020 = VY022255.D
RRF050 = VY022256.D RRF100 = VY022257.D RRF150 = VY022258.D

COMPOUND	RRF005	RRF010	RRF020	RRF050	RRF100	RRF150	$\overline{RRF}$	% RSD
t-1,3-Dichloropropene	0.464	0.473	0.457	0.487	0.498	0.499	0.480	3.7
cis-1,3-Dichloropropene	0.523	0.548	0.535	0.562	0.562	0.568	0.550	3.2
1,1,2-Trichloroethane	0.241	0.243	0.232	0.243	0.248	0.249	0.243	2.4
2-Hexanone	0.167	0.167	0.151	0.166	0.183	0.185	0.170	7.4
Dibromochloromethane	0.296	0.314	0.298	0.323	0.329	0.330	0.315	4.9
1,2-Dibromoethane	0.221	0.228	0.214	0.227	0.234	0.232	0.226	3.2
Tetrachloroethene	0.474	0.481	0.470	0.474	0.446	0.429	0.462	4.4
Chlorobenzene	1.112	1.110	1.106	1.154	1.143	1.143	1.128	1.9
Ethyl Benzene	2.014	2.043	2.049	2.175	2.173	2.222	2.113	4.1
m/p-Xylenes	0.749	0.770	0.763	0.818	0.825	0.852	0.796	5.2
o-Xylene	0.704	0.741	0.723	0.768	0.782	0.802	0.753	4.9
Styrene	1.182	1.214	1.210	1.303	1.335	1.380	1.270	6.3
Bromoform	0.202	0.214	0.194	0.209	0.219	0.217	0.209	4.5
Isopropylbenzene	4.157	4.192	4.100	4.197	4.028	4.181	4.142	1.6
1,1,2,2-Tetrachloroethane	0.656	0.647	0.581	0.628	0.645	0.666	0.637	4.8
1,3-Dichlorobenzene	1.757	1.774	1.715	1.838	1.839	1.914	1.806	4
1,4-Dichlorobenzene	1.759	1.765	1.706	1.750	1.723	1.720	1.737	1.4
1,2-Dichlorobenzene	1.526	1.520	1.479	1.534	1.520	1.523	1.517	1.3
1,2-Dibromo-3-Chloropropane	0.107	0.104	0.093	0.100	0.109	0.104	0.103	5.7
1,2,4-Trichlorobenzene	0.860	0.845	0.848	0.900	0.904	0.902	0.876	3.2
1,2,3-Trichlorobenzene	0.753	0.721	0.702	0.752	0.777	0.756	0.743	3.6
1,2-Dichloroethane-d4	0.547	0.559	0.527	0.541	0.545	0.560	0.546	2.2
Dibromofluoromethane	0.294	0.294	0.294	0.301	0.297	0.310	0.298	2.2
Toluene-d8	1.224	1.200	1.195	1.230	1.214	1.272	1.222	2.3
4-Bromofluorobenzene	0.390	0.386	0.368	0.387	0.387	0.407	0.387	3.3

* 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: CAMP02

Lab Code: CHEM Case No.: Q2100 SAS No.: Q2100 SDG No.: Q2100

Instrument ID: MSVOA_Y Calibration Date/Time: 05/22/2025 08:35

Lab File ID: VY022380.D Init. Calib. Date(s): 05/15/2025 05/15/2025

Heated Purge: (Y/N) Y Init. Calib. Time(s): 09:46 11:47

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.522	0.512		-1.92	20
Chloromethane	1.097	1.093	0.1	-0.46	20
Vinyl Chloride	1.226	1.451		18.35	20
Bromomethane	0.998	1.202		20.44	20
Chloroethane	0.763	0.992		30.01	20
Trichlorofluoromethane	1.241	1.338		7.82	20
1,1,2-Trichlorotrifluoroethane	0.539	0.600		11.32	20
1,1-Dichloroethene	0.535	0.576		7.66	20
Acetone	0.102	0.096		-5.88	20
Carbon Disulfide	1.744	1.805		3.5	20
Methyl tert-butyl Ether	1.475	1.522		3.19	20
Methyl Acetate	0.323	0.304		-5.88	20
Methylene Chloride	0.662	0.614		-7.25	20
trans-1,2-Dichloroethene	0.590	0.630		6.78	20
1,1-Dichloroethane	1.106	1.155	0.1	4.43	20
Cyclohexane	1.105	1.072		-2.99	20
2-Butanone	0.171	0.154		-9.94	20
Carbon Tetrachloride	0.509	0.548		7.66	20
cis-1,2-Dichloroethene	0.681	0.741		8.81	20
Bromochloromethane	0.472	0.490		3.81	20
Chloroform	1.061	1.157		9.05	20
1,1,1-Trichloroethane	0.974	1.054		8.21	20
Methylcyclohexane	0.660	0.694		5.15	20
Benzene	1.457	1.548		6.25	20
1,2-Dichloroethane	0.394	0.396		0.51	20
Trichloroethene	0.362	0.385		6.35	20
1,2-Dichloropropane	0.351	0.362		3.13	20
Bromodichloromethane	0.492	0.514		4.47	20
4-Methyl-2-Pentanone	0.253	0.230		-9.09	20
Toluene	0.923	0.978		5.96	20
t-1,3-Dichloropropene	0.480	0.478		-0.42	20
cis-1,3-Dichloropropene	0.550	0.565		2.73	20
1,1,2-Trichloroethane	0.243	0.246		1.24	20
2-Hexanone	0.170	0.151		-11.18	20
Dibromochloromethane	0.315	0.330		4.76	20
1,2-Dibromoethane	0.226	0.236		4.43	20
Tetrachloroethene	0.462	0.502		8.66	20
Chlorobenzene	1.128	1.194	0.3	5.85	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: CAMP02

Lab Code: CHEM Case No.: Q2100 SAS No.: Q2100 SDG No.: Q2100

Instrument ID: MSVOA_Y Calibration Date/Time: 05/22/2025 08:35

Lab File ID: VY022380.D Init. Calib. Date(s): 05/15/2025 05/15/2025

Heated Purge: (Y/N) Y Init. Calib. Time(s): 09:46 11:47

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Ethyl Benzene	2.113	2.234		5.73	20
m/p-Xylenes	0.796	0.849		6.66	20
o-Xylene	0.753	0.791		5.05	20
Styrene	1.270	1.325		4.33	20
Bromoform	0.209	0.212	0.1	1.43	20
Isopropylbenzene	4.142	4.432		7	20
1,1,2,2-Tetrachloroethane	0.637	0.657	0.3	3.14	20
1,3-Dichlorobenzene	1.806	1.920		6.31	20
1,4-Dichlorobenzene	1.737	1.831		5.41	20
1,2-Dichlorobenzene	1.517	1.600		5.47	20
1,2-Dibromo-3-Chloropropane	0.103	0.104		0.97	20
1,2,4-Trichlorobenzene	0.876	0.937		6.96	20
1,2,3-Trichlorobenzene	0.743	0.779		4.84	20
1,2-Dichloroethane-d4	0.546	0.561		2.75	20
Dibromofluoromethane	0.298	0.318		6.71	20
Toluene-d8	1.222	1.298		6.22	20
4-Bromofluorobenzene	0.387	0.387		0	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: CAMP02

Lab Code: CHEM Case No.: Q2100 SAS No.: Q2100 SDG No.: Q2100

Instrument ID: MSVOA_Y Calibration Date/Time: 05/23/2025 14:34

Lab File ID: VY022407.D Init. Calib. Date(s): 05/15/2025 05/15/2025

Heated Purge: (Y/N) Y Init. Calib. Time(s): 09:46 11:47

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.522	0.529		1.34	20
Chloromethane	1.097	1.312	0.1	19.6	20
Vinyl Chloride	1.226	1.569		27.98	20
Bromomethane	0.998	1.869		87.28	20
Chloroethane	0.763	1.174		53.87	20
Trichlorofluoromethane	1.241	1.446		16.52	20
1,1,2-Trichlorotrifluoroethane	0.539	0.598		10.95	20
1,1-Dichloroethene	0.535	0.580		8.41	20
Acetone	0.102	0.112		9.8	20
Carbon Disulfide	1.744	1.866		6.99	20
Methyl tert-butyl Ether	1.475	1.534		4	20
Methyl Acetate	0.323	0.277		-14.24	20
Methylene Chloride	0.662	0.610		-7.86	20
trans-1,2-Dichloroethene	0.590	0.629		6.61	20
1,1-Dichloroethane	1.106	1.138	0.1	2.89	20
Cyclohexane	1.105	1.069		-3.26	20
2-Butanone	0.171	0.165		-3.51	20
Carbon Tetrachloride	0.509	0.543		6.68	20
cis-1,2-Dichloroethene	0.681	0.745		9.4	20
Bromochloromethane	0.472	0.452		-4.24	20
Chloroform	1.061	1.137		7.16	20
1,1,1-Trichloroethane	0.974	1.014		4.11	20
Methylcyclohexane	0.660	0.714		8.18	20
Benzene	1.457	1.555		6.73	20
1,2-Dichloroethane	0.394	0.407		3.3	20
Trichloroethene	0.362	0.386		6.63	20
1,2-Dichloropropane	0.351	0.363		3.42	20
Bromodichloromethane	0.492	0.522		6.1	20
4-Methyl-2-Pentanone	0.253	0.241		-4.74	20
Toluene	0.923	0.988		7.04	20
t-1,3-Dichloropropene	0.480	0.487		1.46	20
cis-1,3-Dichloropropene	0.550	0.574		4.36	20
1,1,2-Trichloroethane	0.243	0.261		7.41	20
2-Hexanone	0.170	0.166		-2.35	20
Dibromochloromethane	0.315	0.339		7.62	20
1,2-Dibromoethane	0.226	0.243		7.52	20
Tetrachloroethene	0.462	0.463		0.22	20
Chlorobenzene	1.128	1.192	0.3	5.67	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: CAMP02

Lab Code: CHEM Case No.: Q2100 SAS No.: Q2100 SDG No.: Q2100

Instrument ID: MSVOA_Y Calibration Date/Time: 05/23/2025 14:34

Lab File ID: VY022407.D Init. Calib. Date(s): 05/15/2025 05/15/2025

Heated Purge: (Y/N) Y Init. Calib. Time(s): 09:46 11:47

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Ethyl Benzene	2.113	2.220		5.06	20
m/p-Xylenes	0.796	0.846		6.28	20
o-Xylene	0.753	0.797		5.84	20
Styrene	1.270	1.334		5.04	20
Bromoform	0.209	0.212	0.1	1.43	20
Isopropylbenzene	4.142	4.256		2.75	20
1,1,2,2-Tetrachloroethane	0.637	0.668	0.3	4.87	20
1,3-Dichlorobenzene	1.806	1.855		2.71	20
1,4-Dichlorobenzene	1.737	1.766		1.67	20
1,2-Dichlorobenzene	1.517	1.547		1.98	20
1,2-Dibromo-3-Chloropropane	0.103	0.101		-1.94	20
1,2,4-Trichlorobenzene	0.876	0.871		-0.57	20
1,2,3-Trichlorobenzene	0.743	0.748		0.67	20
1,2-Dichloroethane-d4	0.546	0.475		-13	20
Dibromofluoromethane	0.298	0.280		-6.04	20
Toluene-d8	1.222	1.060		-13.26	20
4-Bromofluorobenzene	0.387	0.334		-13.69	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\VY052325\
Data File : VY022416.D
Acq On : 23 May 2025 19:11
Operator : SY/MD
Sample : Q2100-01
Misc : 10.70g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-16

Quant Time: May 23 23:24:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.713	168	303749	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.622	114	546937	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	451641	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.353	152	169695	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.067	65	184083	55.452	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 110.900%			
35) Dibromofluoromethane	7.640	113	169380	51.886	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 103.780%			
50) Toluene-d8	10.109	98	652262	48.786	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 97.580%			
62) 4-Bromofluorobenzene	12.408	95	173216	40.875	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 81.740%			

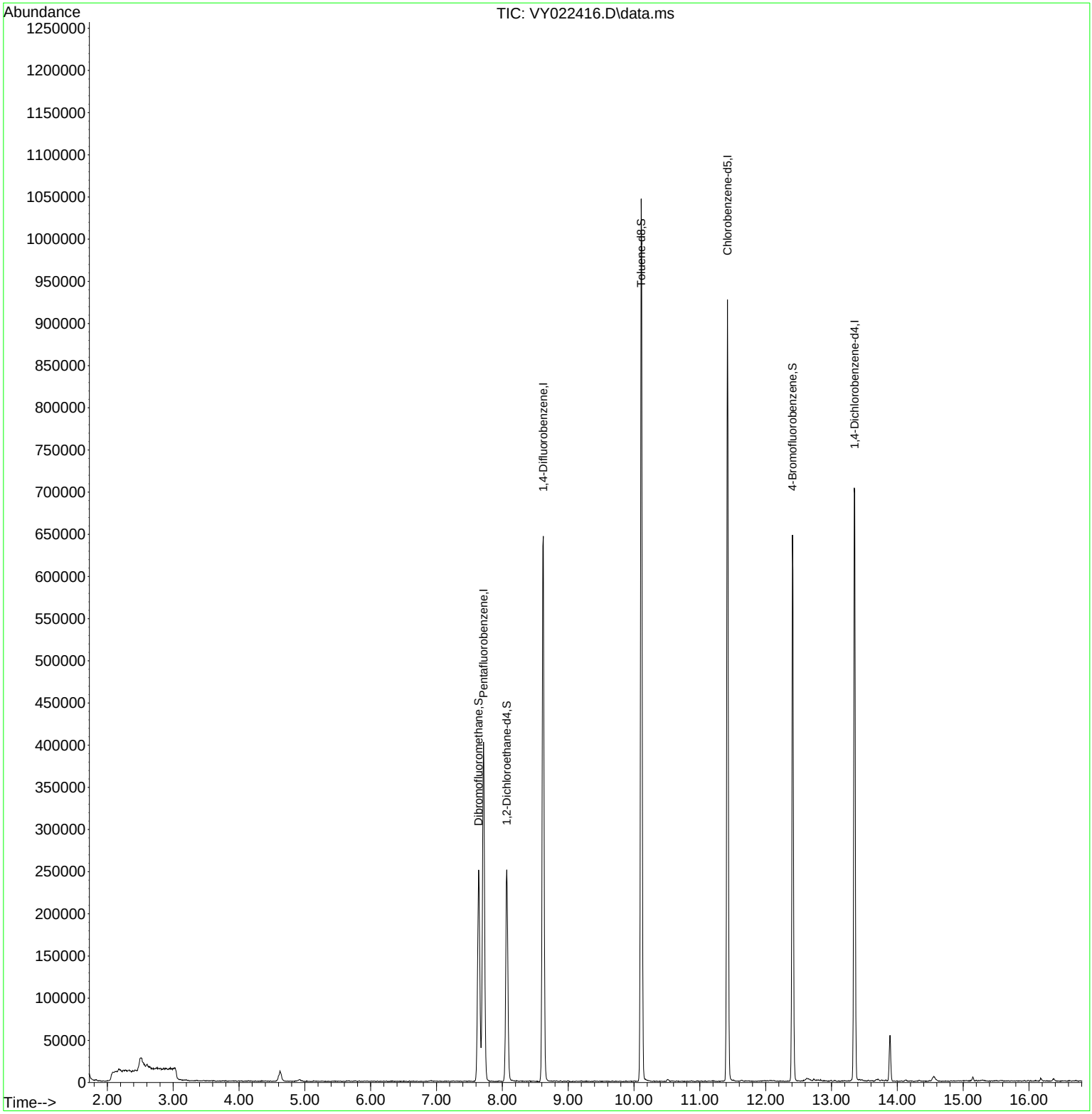
Target Compounds Qvalue

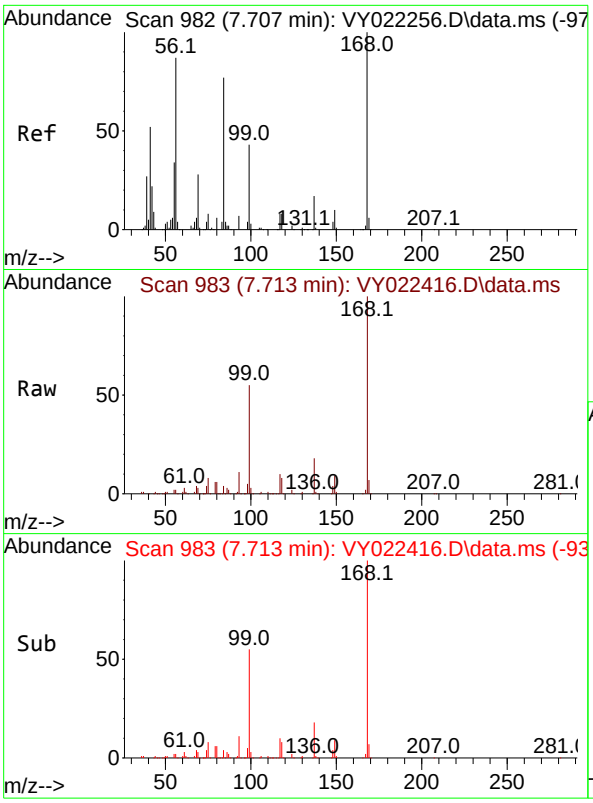
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052325\
Data File : VY022416.D
Acq On : 23 May 2025 19:11
Operator : SY/MD
Sample : Q2100-01
Misc : 10.70g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-16

Quant Time: May 23 23:24:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 2025
Response via : Initial Calibration



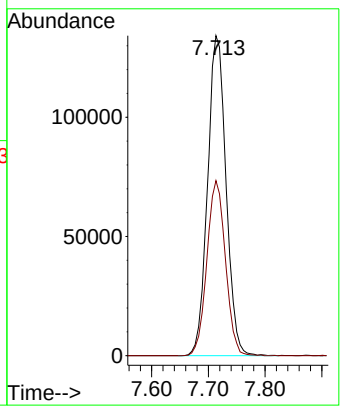


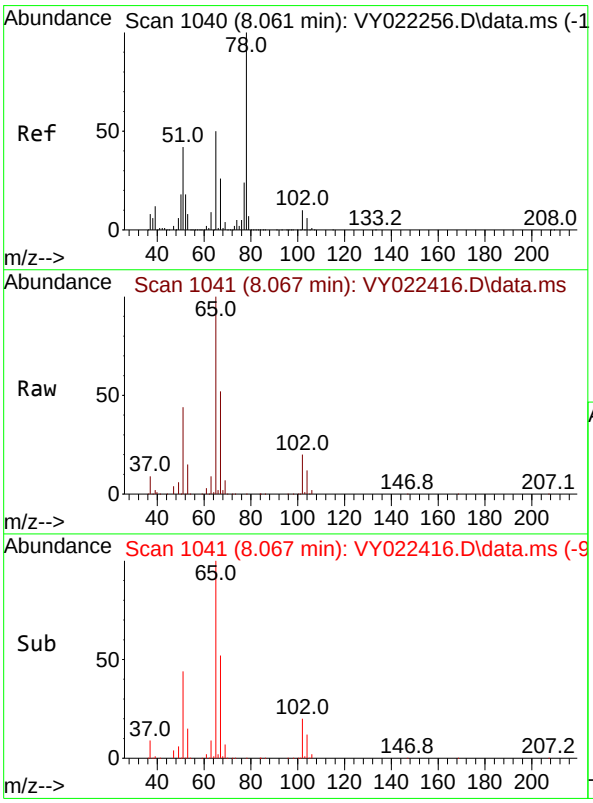
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY022416.D
Acq: 23 May 2025 19:11

Instrument :
MSVOA_Y
ClientSampleId :
TP-16

Tgt Ion:168 Resp: 303749

Ion	Ratio	Lower	Upper
168	100		
99	54.7	44.2	66.4

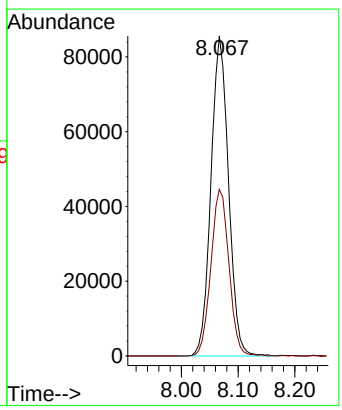


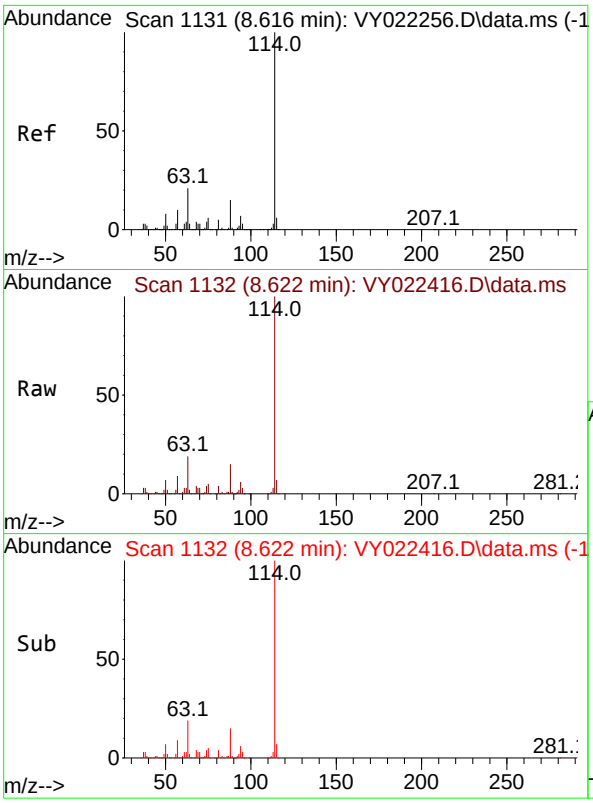


#33
1,2-Dichloroethane-d4
Concen: 55.452 ug/l
RT: 8.067 min Scan# 1041
Delta R.T. 0.006 min
Lab File: VY022416.D
Acq: 23 May 2025 19:11

Tgt Ion: 65 Resp: 184083

Ion	Ratio	Lower	Upper
65	100		
67	53.4	0.0	104.6



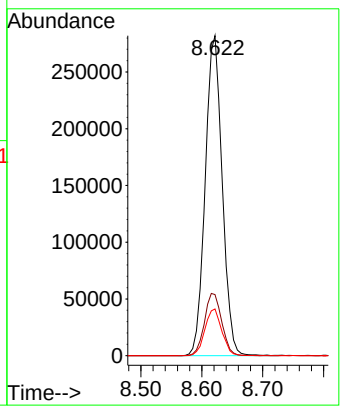


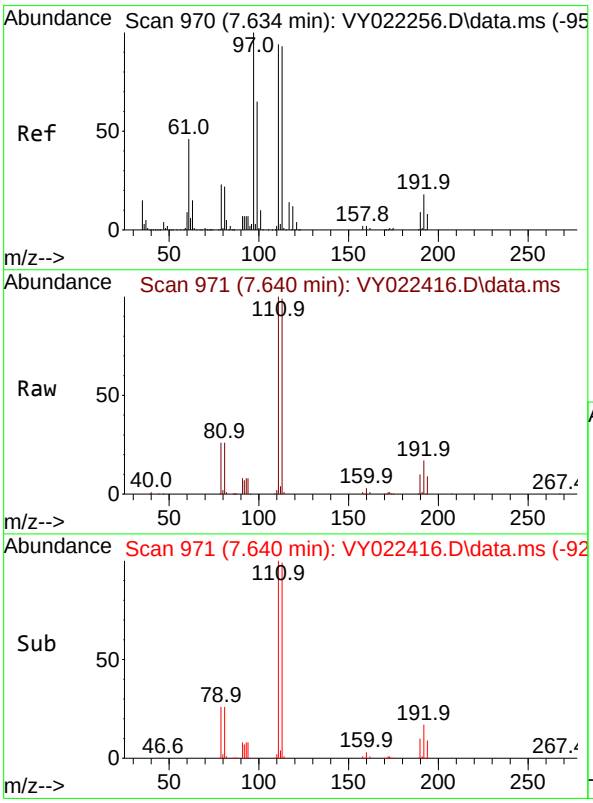
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.622 min Scan# 11
Delta R.T. 0.006 min
Lab File: VY022416.D
Acq: 23 May 2025 19:11

Instrument :
MSVOA_Y
ClientSampleId :
TP-16

Tgt Ion:114 Resp: 546937

Ion	Ratio	Lower	Upper
114	100		
63	19.1	0.0	41.0
88	14.6	0.0	29.4

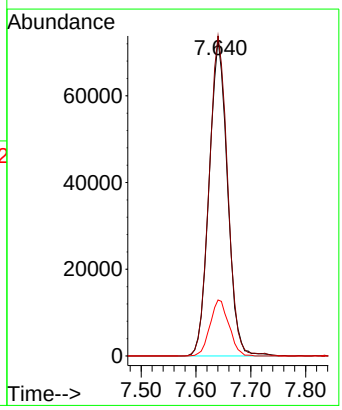


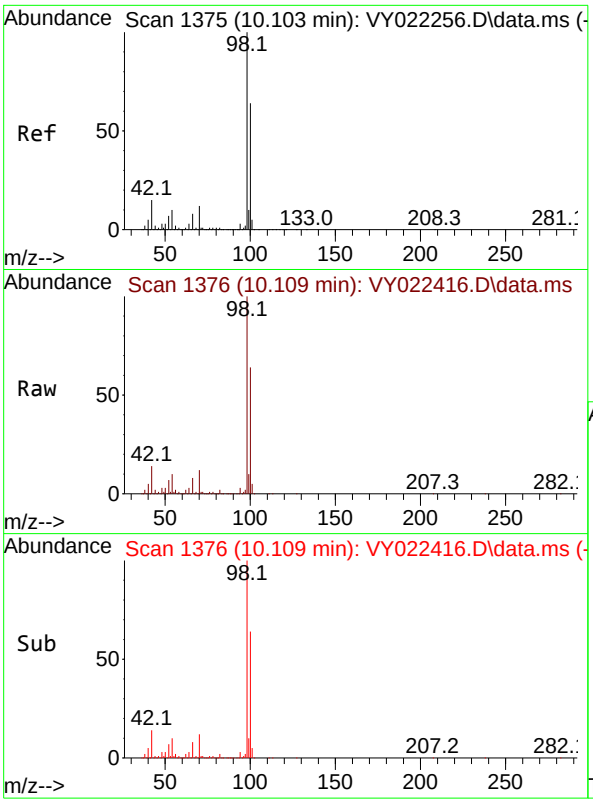


#35
Dibromofluoromethane
Concen: 51.886 ug/l
RT: 7.640 min Scan# 971
Delta R.T. 0.006 min
Lab File: VY022416.D
Acq: 23 May 2025 19:11

Tgt Ion:113 Resp: 169380

Ion	Ratio	Lower	Upper
113	100		
111	102.1	82.6	123.8
192	18.2	15.2	22.8



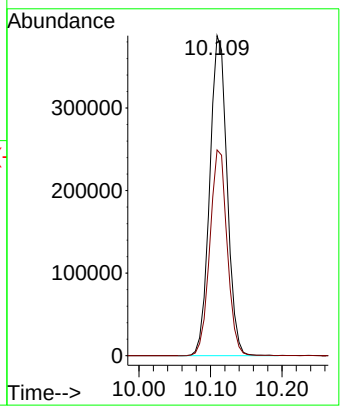


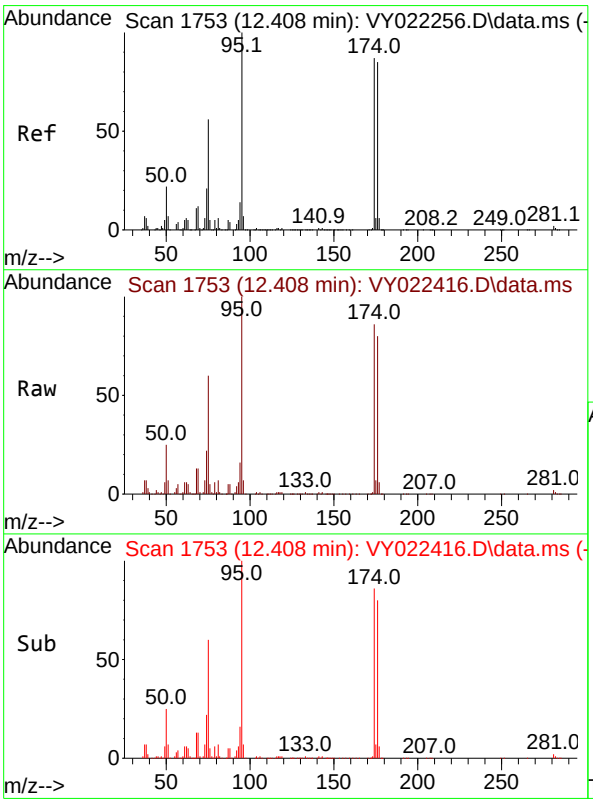
#50
Toluene-d8
Concen: 48.786 ug/l
RT: 10.109 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022416.D
Acq: 23 May 2025 19:11

Instrument :
MSVOA_Y
ClientSampleId :
TP-16

Tgt Ion: 98 Resp: 652262

Ion	Ratio	Lower	Upper
98	100		
100	64.3	51.8	77.8

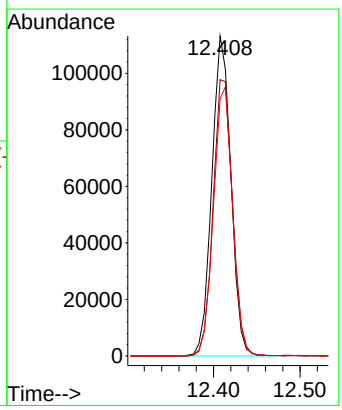




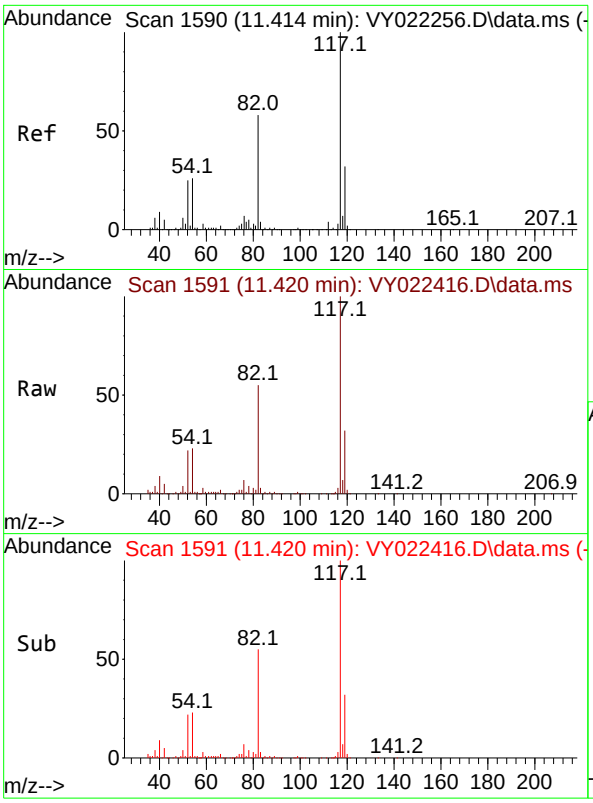
#62
4-Bromofluorobenzene
Concen: 40.875 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. -0.000 min
Lab File: VY022416.D
Acq: 23 May 2025 19:11

Tgt Ion: 95 Resp: 173216

Ion	Ratio	Lower	Upper
95	100		
174	87.8	0.0	166.8
176	84.3	0.0	160.8



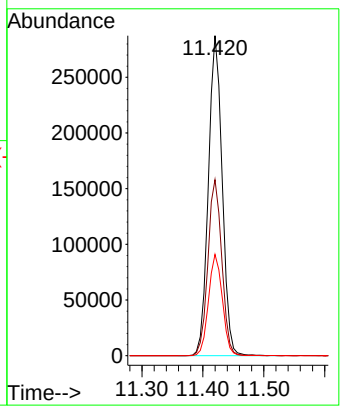
Instrument :
MSVOA_Y
ClientSampleId :
TP-16

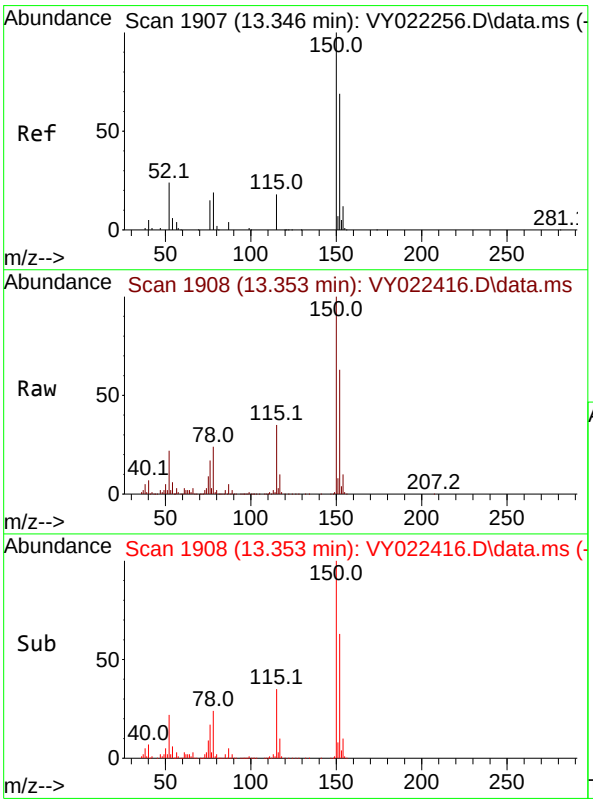


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022416.D
Acq: 23 May 2025 19:11

Tgt Ion:117 Resp: 451641

Ion	Ratio	Lower	Upper
117	100		
82	55.0	46.6	70.0
119	31.6	25.8	38.6

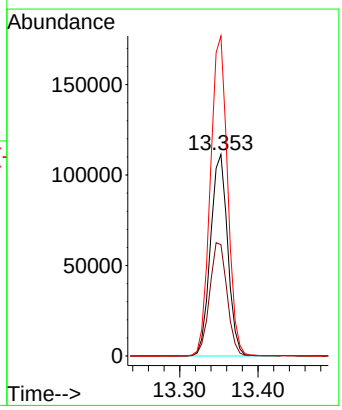




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.353 min Scan# 1908
Delta R.T. 0.006 min
Lab File: VY022416.D
Acq: 23 May 2025 19:11

Tgt Ion:152 Resp: 169695

Ion	Ratio	Lower	Upper
152	100		
115	57.3	29.4	88.2
150	158.4	0.0	353.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052325\
Data File : VY022416.D
Acq On : 23 May 2025 19:11
Operator : SY/MD
Sample : Q2100-01
Misc : 10.70g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-16

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\82Y051525S.M
Title : SW846 8260

Signal : TIC: VY022416.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	49	59	63	rBV5	10198	30437	1.73%	0.341%
2	2.513	121	130	137	rBV5	15151	60642	3.44%	0.680%
3	4.622	465	476	489	rBV3	12084	35355	2.01%	0.397%
4	7.640	961	971	977	rBV	250660	583480	33.09%	6.546%
5	7.713	977	983	998	rVB	402523	908702	51.54%	10.195%
6	8.067	1030	1041	1054	rBV	251007	556513	31.57%	6.244%
7	8.622	1123	1132	1147	rBV	646940	1282603	72.75%	14.390%
8	10.109	1368	1376	1385	rBV	1046313	1763069	100.00%	19.781%
9	11.420	1584	1591	1604	rBV	926215	1465218	83.11%	16.439%
10	12.408	1744	1753	1765	rBV	647923	1014458	57.54%	11.382%
11	13.346	1897	1907	1917	rBV	703253	1106332	62.75%	12.412%
12	13.889	1990	1996	2003	rVB2	54480	87582	4.97%	0.983%
13	14.554	2097	2105	2117	rVB7	5738	18676	1.06%	0.210%

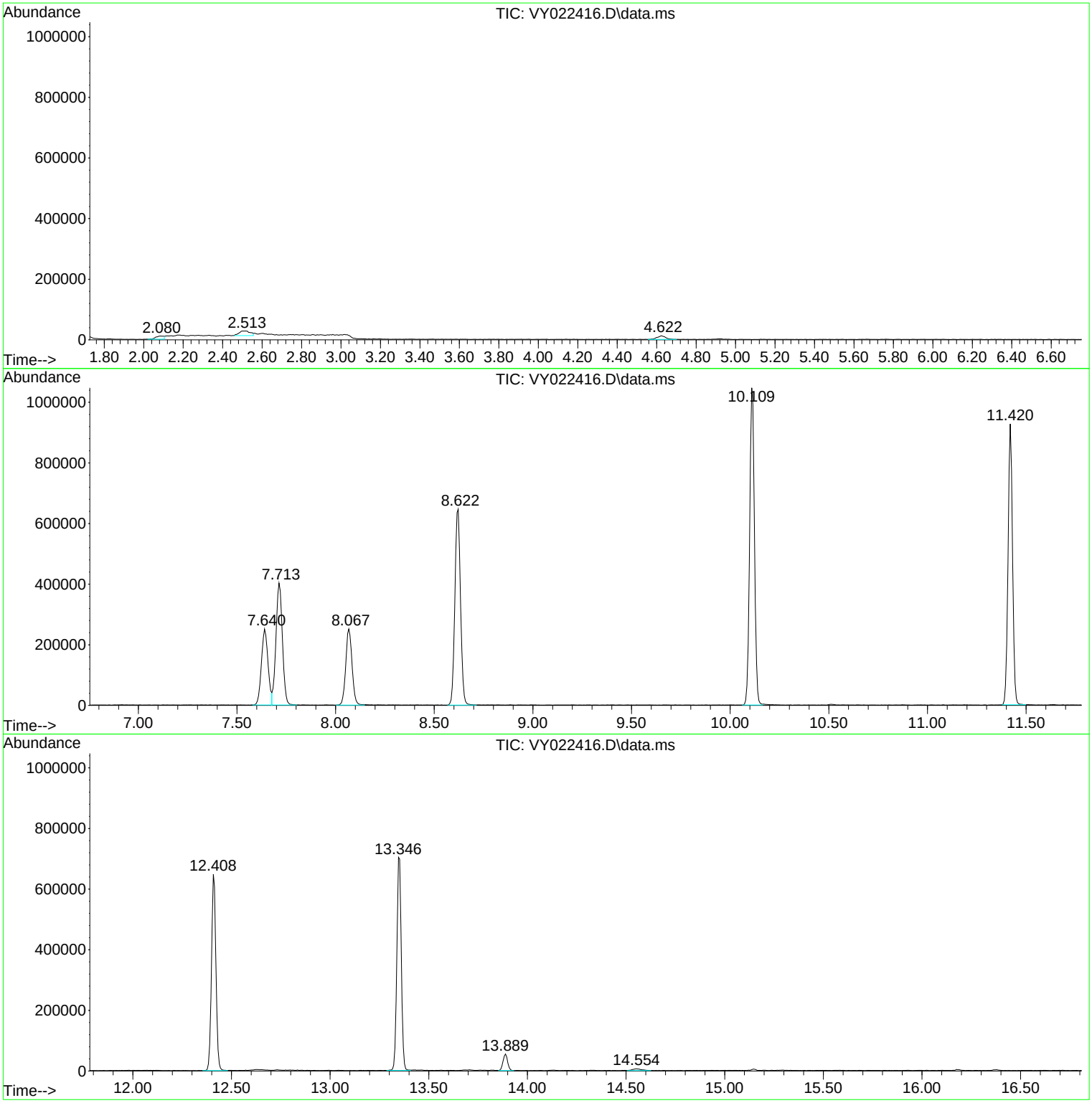
Sum of corrected areas: 8913067

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052325\
Data File : VY022416.D
Acq On : 23 May 2025 19:11
Operator : SY/MD
Sample : Q2100-01
Misc : 10.70g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-16

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052325\
Data File : VY022416.D
Acq On : 23 May 2025 19:11
Operator : SY/MD
Sample : Q2100-01
Misc : 10.70g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-16

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.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\VY052325\
Data File : VY022416.D
Acq On : 23 May 2025 19:11
Operator : SY/MD
Sample : Q2100-01
Misc : 10.70g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-16

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.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\VY052225\
Data File : VY022398.D
Acq On : 22 May 2025 16:06
Operator : SY/MD
Sample : Q2100-02
Misc : 7.16g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-22

Quant Time: May 23 03:39:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 2025
Response via : Initial Calibration

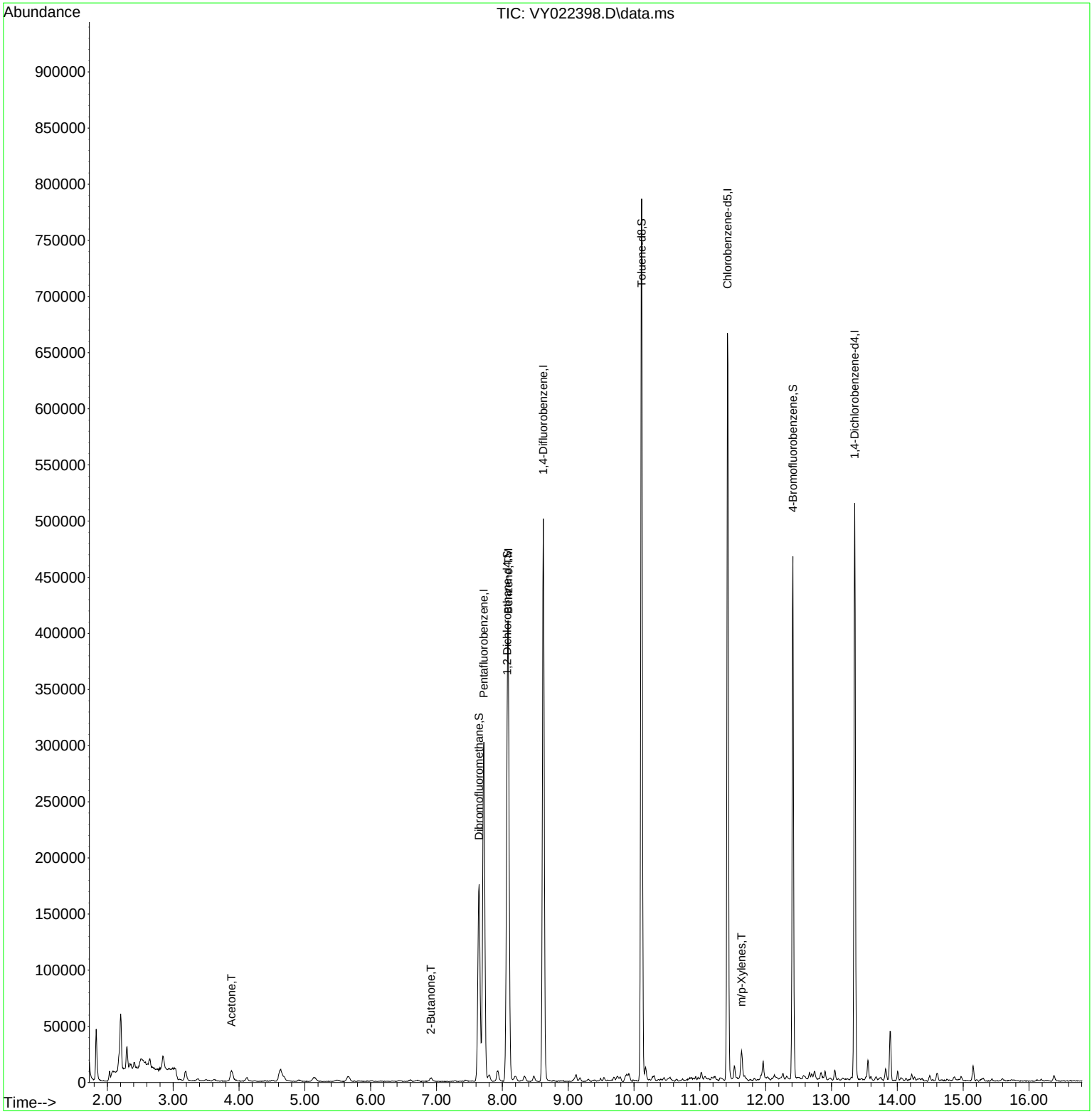
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.719	168	231359	50.000	ug/l	0.01
34) 1,4-Difluorobenzene	8.622	114	414060	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	325678	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.352	152	119664	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.073	65	117920	46.636	ug/l	0.01
Spiked Amount 50.000	Range 50 - 163		Recovery = 93.280%			
35) Dibromofluoromethane	7.646	113	120139	48.613	ug/l	0.01
Spiked Amount 50.000	Range 54 - 147		Recovery = 97.220%			
50) Toluene-d8	10.115	98	492469	48.655	ug/l	0.01
Spiked Amount 50.000	Range 58 - 134		Recovery = 97.320%			
62) 4-Bromofluorobenzene	12.414	95	122725	38.254	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 76.500%			
Target Compounds						Qvalue
16) Acetone	3.885	43	18091	38.157	ug/l #	83
25) 2-Butanone	6.915	43	5759	7.262	ug/l #	84
40) Benzene	8.091	78	312744	25.917	ug/l	98
68) m/p-Xylenes	11.633	106	8109	1.564	ug/l	87

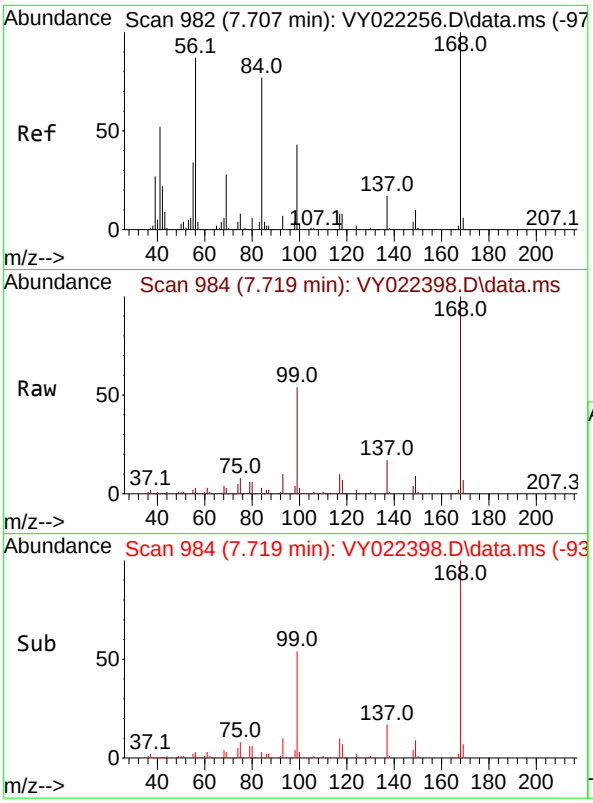
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052225\
Data File : VY022398.D
Acq On : 22 May 2025 16:06
Operator : SY/MD
Sample : Q2100-02
Misc : 7.16g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-22

Quant Time: May 23 03:39:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 2025
Response via : Initial Calibration



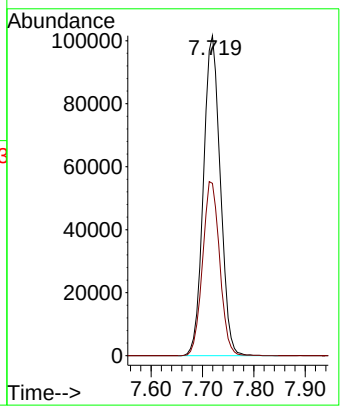


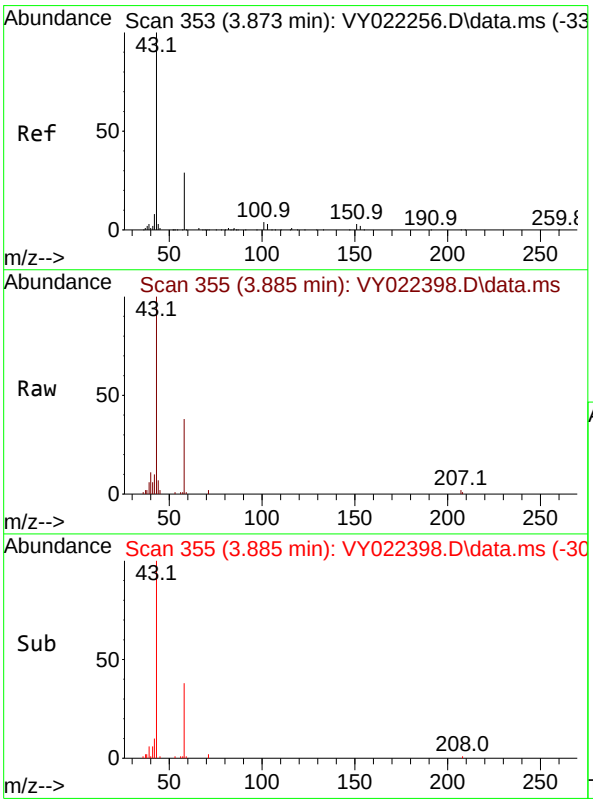
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.719 min Scan# 9
Delta R.T. 0.012 min
Lab File: VY022398.D
Acq: 22 May 2025 16:06

Instrument :
MSVOA_Y
ClientSampleId :
TP-22

Tgt Ion:168 Resp: 231359

Ion	Ratio	Lower	Upper
168	100		
99	53.9	44.2	66.4

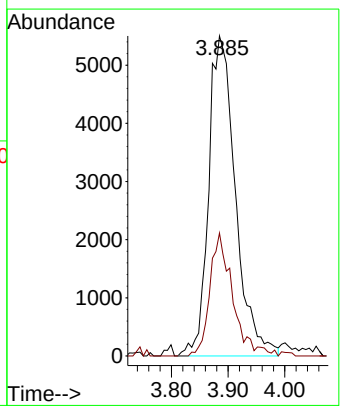




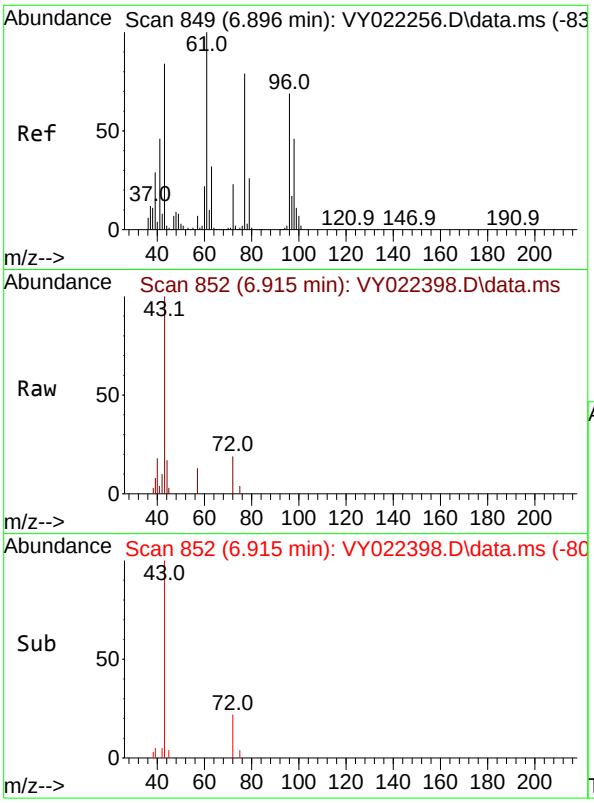
#16
Acetone
Concen: 38.157 ug/l
RT: 3.885 min Scan# 355
Delta R.T. 0.012 min
Lab File: VY022398.D
Acq: 22 May 2025 16:06

Tgt Ion: 43 Resp: 18091

Ion	Ratio	Lower	Upper
43	100		
58	38.4	23.6	35.4#



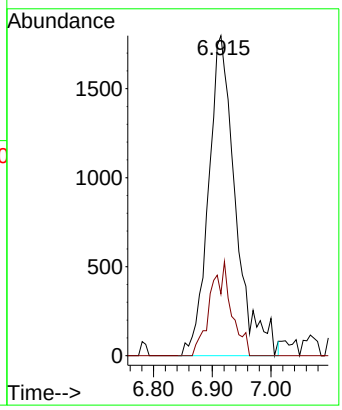
Instrument :
MSVOA_Y
ClientSampleId :
TP-22

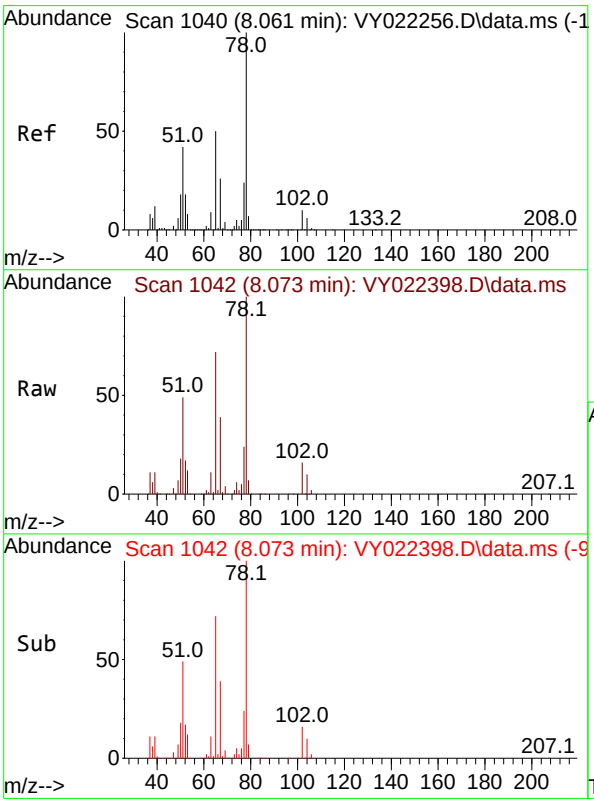


#25
2-Butanone
Concen: 7.262 ug/l
RT: 6.915 min Scan# 8
Delta R.T. 0.018 min
Lab File: VY022398.D
Acq: 22 May 2025 16:06

Tgt Ion: 43 Resp: 5759

Ion	Ratio	Lower	Upper
43	100		
72	19.3	22.1	33.1#

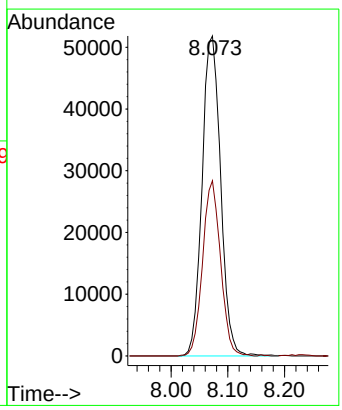


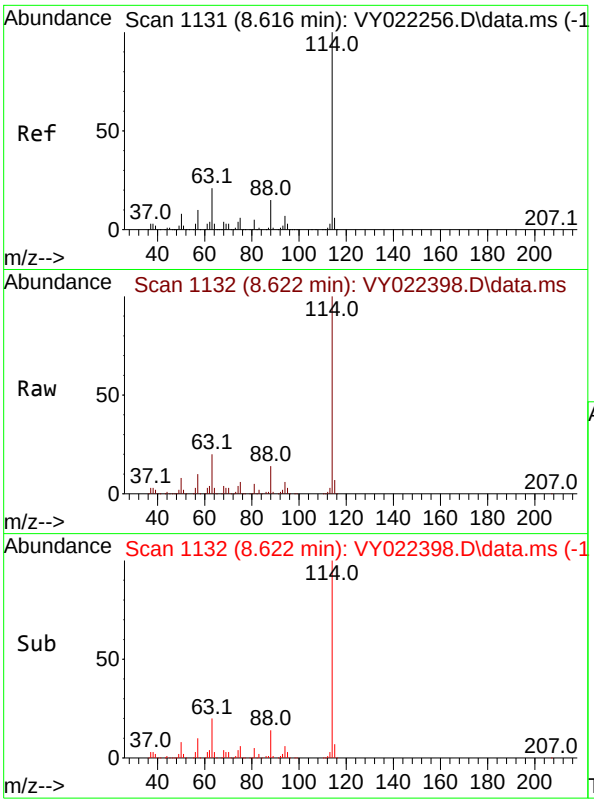


#33
1,2-Dichloroethane-d4
Concen: 46.636 ug/l
RT: 8.073 min Scan# 1042
Delta R.T. 0.012 min
Lab File: VY022398.D
Acq: 22 May 2025 16:06

Tgt Ion: 65 Resp: 117920

Ion	Ratio	Lower	Upper
65	100		
67	52.9	0.0	104.6



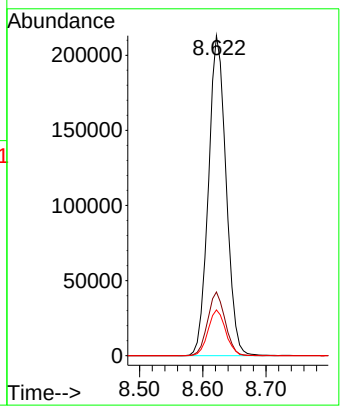


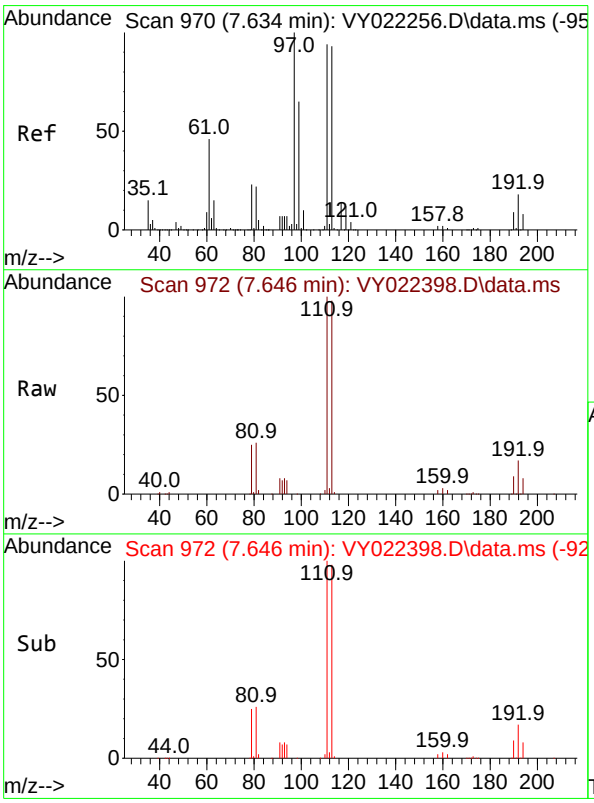
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.622 min Scan# 11
Delta R.T. 0.006 min
Lab File: VY022398.D
Acq: 22 May 2025 16:06

Instrument :
MSVOA_Y
ClientSampleId :
TP-22

Tgt Ion:114 Resp: 414060

Ion	Ratio	Lower	Upper
114	100		
63	19.9	0.0	41.0
88	14.3	0.0	29.4

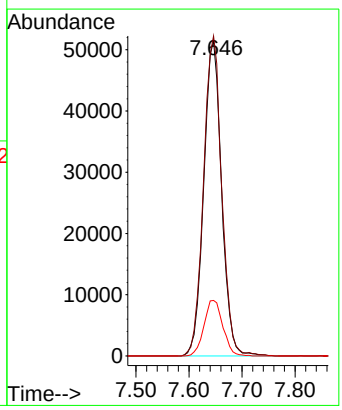




#35
Dibromofluoromethane
Concen: 48.613 ug/l
RT: 7.646 min Scan# 972
Delta R.T. 0.012 min
Lab File: VY022398.D
Acq: 22 May 2025 16:06

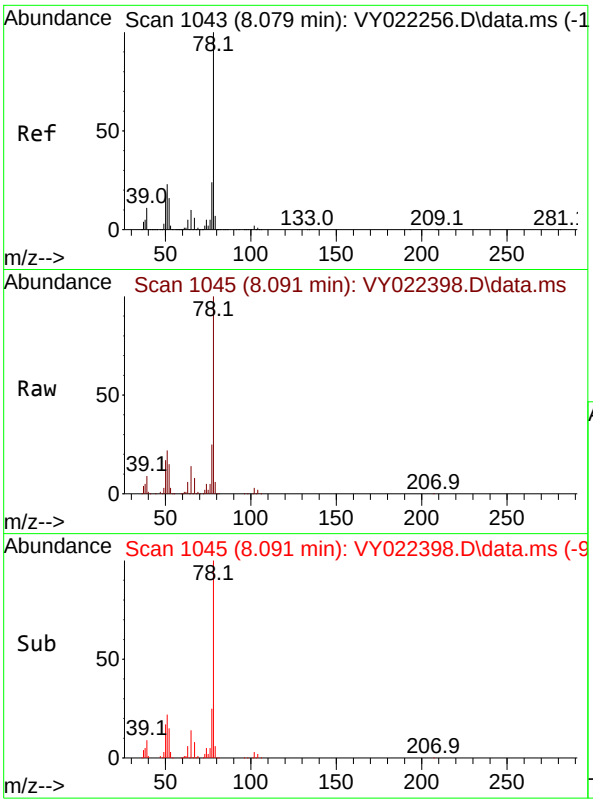
Tgt Ion:113 Resp: 120139

Ion	Ratio	Lower	Upper
113	100		
111	103.6	82.6	123.8
192	18.6	15.2	22.8



5

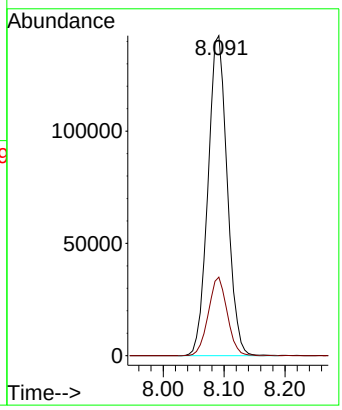
Instrument :
MSVOA_Y
ClientSampleId :
TP-22

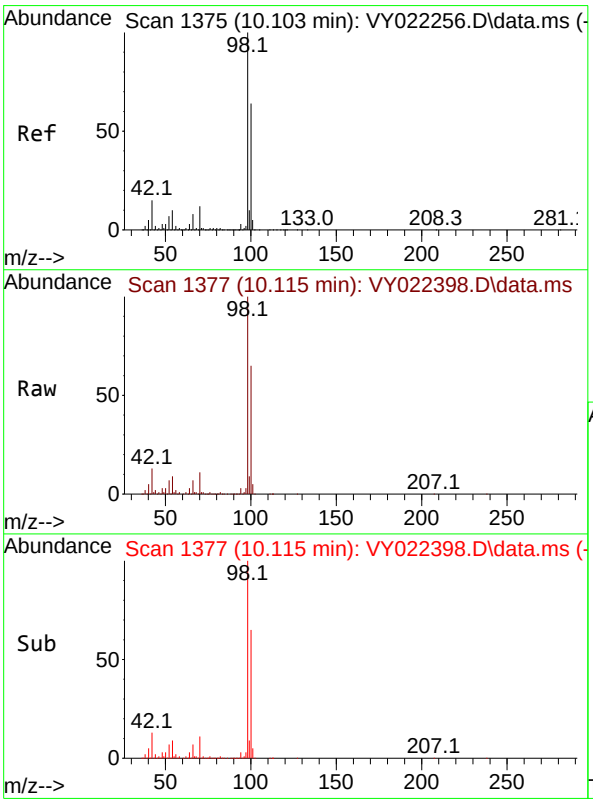


#40
Benzene
Concen: 25.917 ug/l
RT: 8.091 min Scan# 1
Delta R.T. 0.012 min
Lab File: VY022398.D
Acq: 22 May 2025 16:06

Tgt Ion: 78 Resp: 312744

Ion	Ratio	Lower	Upper
78	100		
77	24.6	18.9	28.3

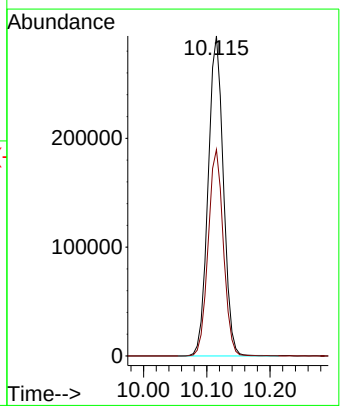


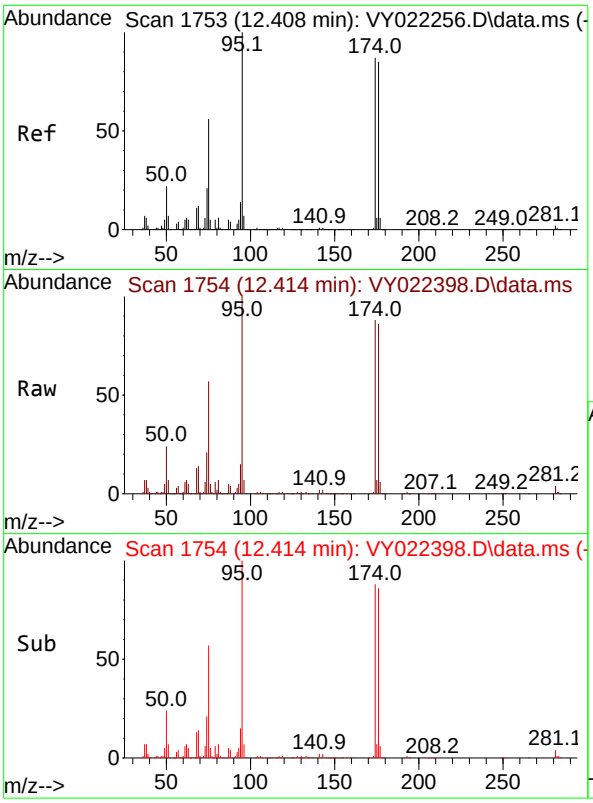


#50
Toluene-d8
Concen: 48.655 ug/l
RT: 10.115 min Scan# 1377
Delta R.T. 0.012 min
Lab File: VY022398.D
Acq: 22 May 2025 16:06

Tgt Ion: 98 Resp: 492469

Ion	Ratio	Lower	Upper
98	100		
100	64.1	51.8	77.8



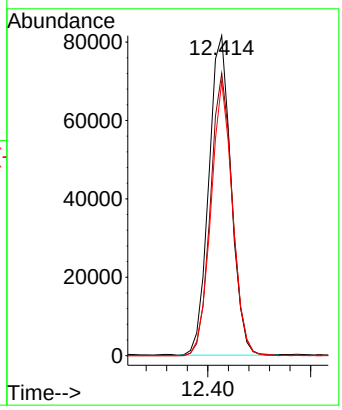


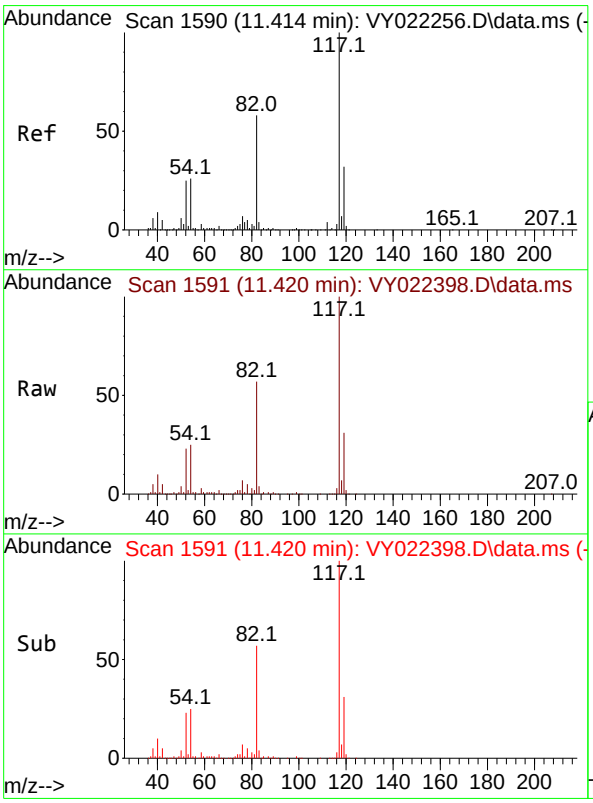
#62
4-Bromofluorobenzene
Concen: 38.254 ug/l
RT: 12.414 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022398.D
Acq: 22 May 2025 16:06

Instrument :
MSVOA_Y
ClientSampleId :
TP-22

Tgt Ion: 95 Resp: 122725

Ion	Ratio	Lower	Upper
95	100		
174	86.6	0.0	166.8
176	82.9	0.0	160.8

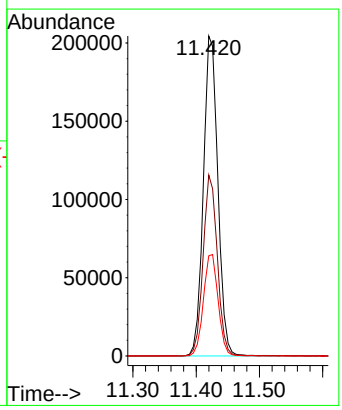




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 1591
Delta R.T. 0.006 min
Lab File: VY022398.D
Acq: 22 May 2025 16:06

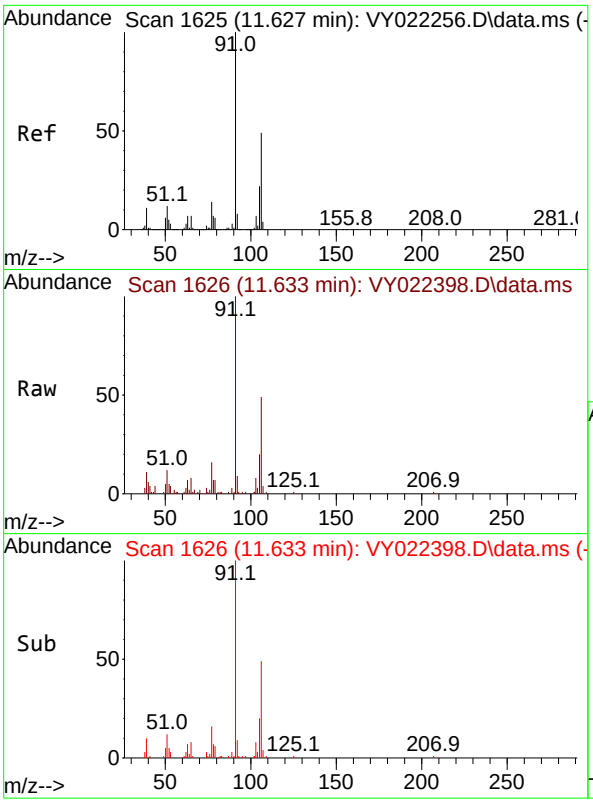
Tgt Ion:117 Resp: 325678

Ion	Ratio	Lower	Upper
117	100		
82	56.5	46.6	70.0
119	31.3	25.8	38.6



5

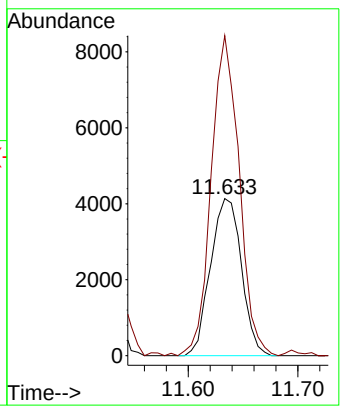
Instrument :
MSVOA_Y
ClientSampleId :
TP-22

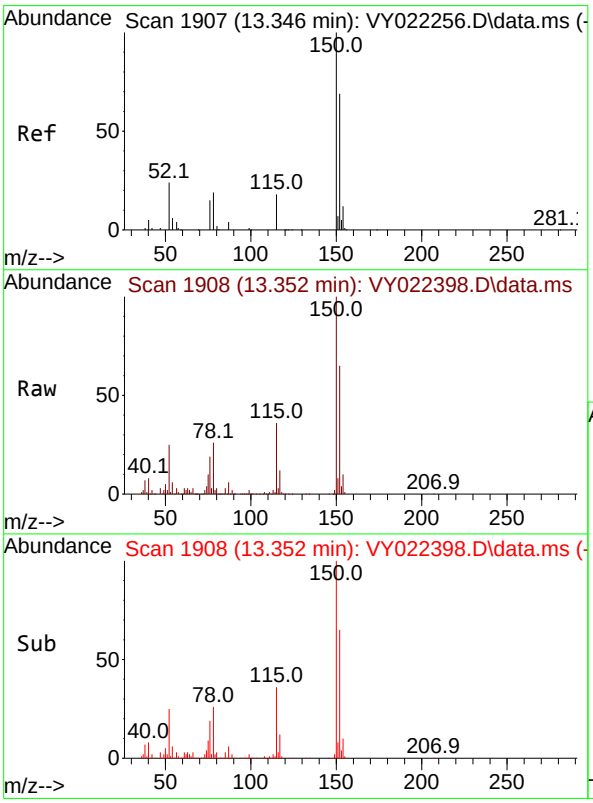


#68
m/p-Xylenes
Concen: 1.564 ug/l
RT: 11.633 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022398.D
Acq: 22 May 2025 16:06

Tgt Ion:106 Resp: 8109

Ion	Ratio	Lower	Upper
106	100		
91	184.4	163.0	244.4

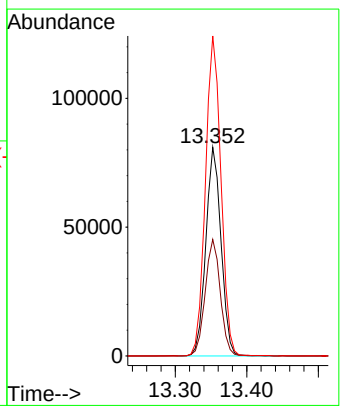




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.352 min Scan# 1908
Delta R.T. 0.006 min
Lab File: VY022398.D
Acq: 22 May 2025 16:06

Tgt Ion:152 Resp: 119664

Ion	Ratio	Lower	Upper
152	100		
115	55.9	29.4	88.2
150	156.1	0.0	353.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052225\
Data File : VY022398.D
Acq On : 22 May 2025 16:06
Operator : SY/MD
Sample : Q2100-02
Misc : 7.16g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-22

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\82Y051525S.M
Title : SW846 8260

Signal : TIC: VY022398.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.830	13	18	26	rVB2	45203	64594	4.85%	0.834%
2	2.031	46	51	54	rBV2	8898	13493	1.01%	0.174%
3	2.202	70	79	86	rBV	50966	102059	7.66%	1.318%
4	2.300	90	95	99	rBV	19544	31627	2.37%	0.409%
5	2.519	125	131	133	rBV6	6655	15764	1.18%	0.204%
6	2.842	179	184	195	rVB2	12326	28848	2.17%	0.373%
7	3.190	234	241	253	rVB3	8478	20286	1.52%	0.262%
8	3.885	348	355	362	rBV	8933	24447	1.84%	0.316%
9	4.634	467	478	492	rBV6	10663	45463	3.41%	0.587%
10	7.646	961	972	977	rBV	175350	416458	31.27%	5.379%
11	7.719	977	984	993	rVV	302144	706166	53.02%	9.122%
12	7.799	993	997	1006	rVB4	5919	14307	1.07%	0.185%
13	7.933	1010	1019	1030	rVB4	9428	24384	1.83%	0.315%
14	8.085	1033	1044	1056	rBV3	410459	1048288	78.71%	13.541%
15	8.622	1122	1132	1145	rBV	501286	975828	73.27%	12.605%
16	9.121	1200	1214	1218	rBV6	6214	16467	1.24%	0.213%
17	9.890	1330	1340	1343	rBV7	6667	18867	1.42%	0.244%
18	10.115	1369	1377	1384	rBV	785757	1331761	100.00%	17.202%
19	10.176	1384	1387	1394	rVB	11624	19754	1.48%	0.255%
20	11.420	1583	1591	1602	rBV	665560	1066529	80.08%	13.776%
21	11.523	1602	1608	1613	rBV	11508	18275	1.37%	0.236%
22	11.633	1618	1626	1632	rVV	26572	58854	4.42%	0.760%
23	11.962	1675	1680	1688	rVB	14760	24953	1.87%	0.322%
24	12.414	1747	1754	1763	rBV	465434	712175	53.48%	9.199%
25	12.743	1804	1808	1815	rVB7	7215	13659	1.03%	0.176%
26	13.048	1853	1858	1865	rBV2	9026	15735	1.18%	0.203%
27	13.352	1902	1908	1917	rVB	513259	771921	57.96%	9.971%
28	13.554	1937	1941	1946	rVB	16085	23454	1.76%	0.303%
29	13.822	1979	1985	1990	rBV4	10419	19588	1.47%	0.253%
30	13.889	1990	1996	2003	rVB3	44130	75020	5.63%	0.969%
31	15.151	2197	2203	2209	rVB	13387	22713	1.71%	0.293%

Sum of corrected areas: 7741737

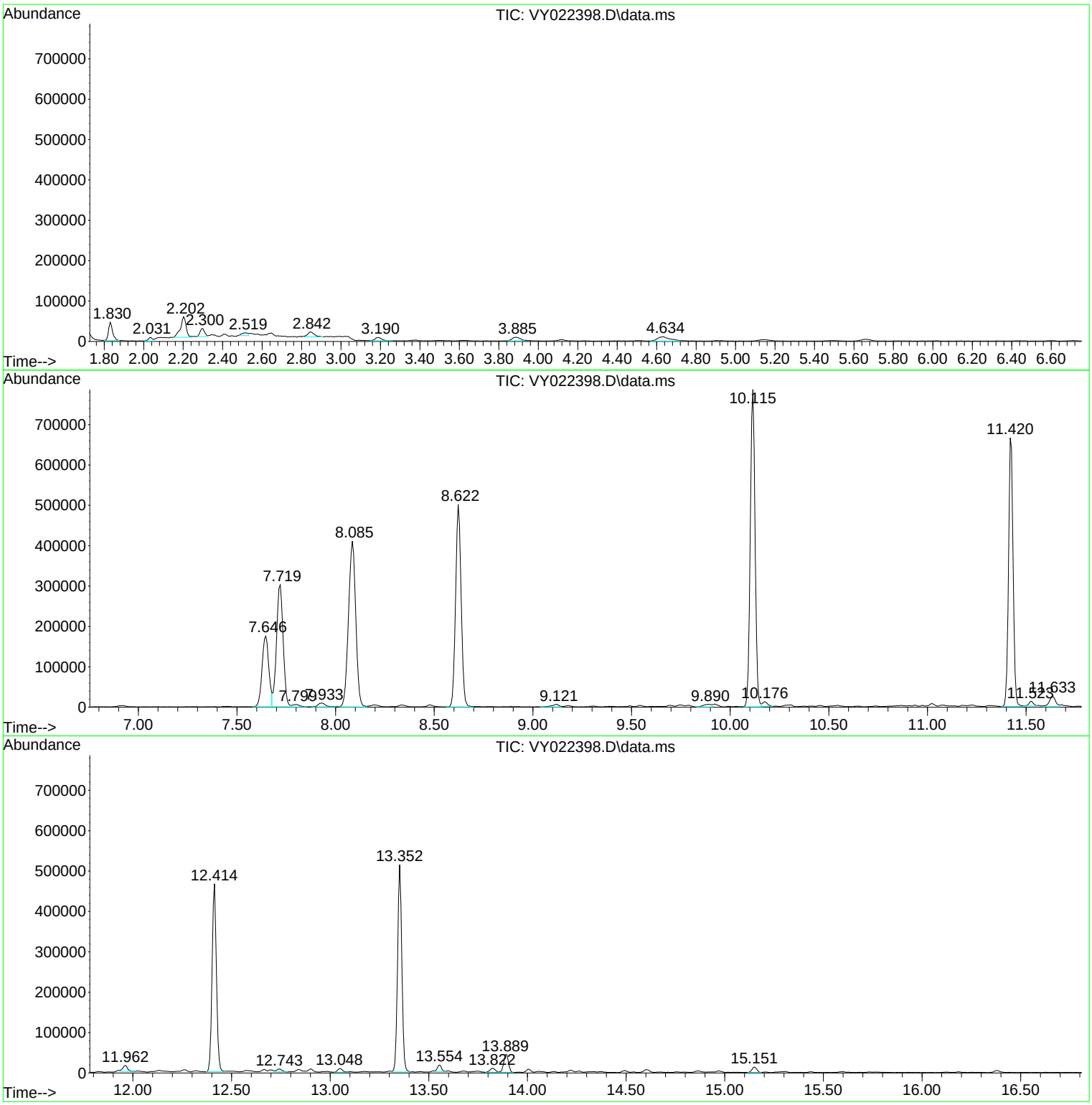
Sample Results: **VY022398.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052225\
Data File : VY022398.D
Acq On : 22 May 2025 16:06
Operator : SY/MD
Sample : Q2100-02
Misc : 7.16g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-22

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052225\
Data File : VY022398.D
Acq On : 22 May 2025 16:06
Operator : SY/MD
Sample : Q2100-02
Misc : 7.16g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-22

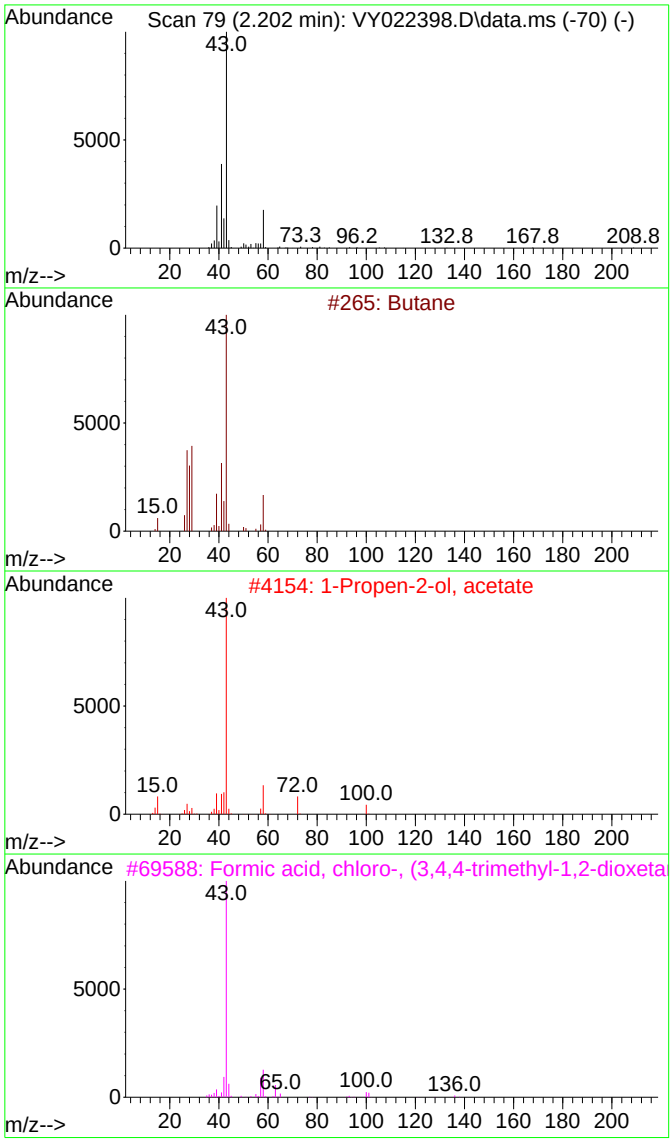
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260

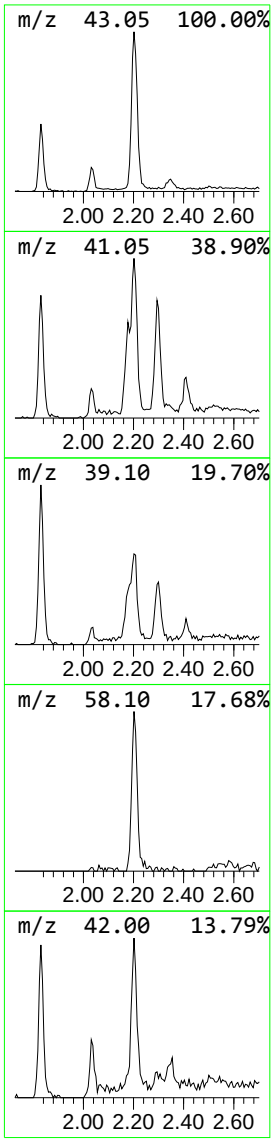
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 1 Butane Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.202	7.23 ug/l	102059	Pentafluorobenzene	7.719

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane	58	C4H10	000106-97-8	59
2	1-Propen-2-ol, acetate	100	C5H8O2	000108-22-5	38
3	Formic acid, chloro-, (3,4,4-tri...	194	C7H11ClO4	107323-92-2	36
4	Methyl Isobutyl Ketone	100	C6H12O	000108-10-1	17
5	Methyl glyoxal	72	C3H4O2	000078-98-8	9





Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052225\
Data File : VY022398.D
Acq On : 22 May 2025 16:06
Operator : SY/MD
Sample : Q2100-02
Misc : 7.16g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-22

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.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
Butane	2.202	7.2	ug/l	102059	1	7.719	706166	50.0

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052325\
Data File : VY022413.D
Acq On : 23 May 2025 18:01
Operator : SY/MD
Sample : Q2100-03
Misc : 7.01g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-21

Quant Time: May 23 23:23:19 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 2025
Response via : Initial Calibration

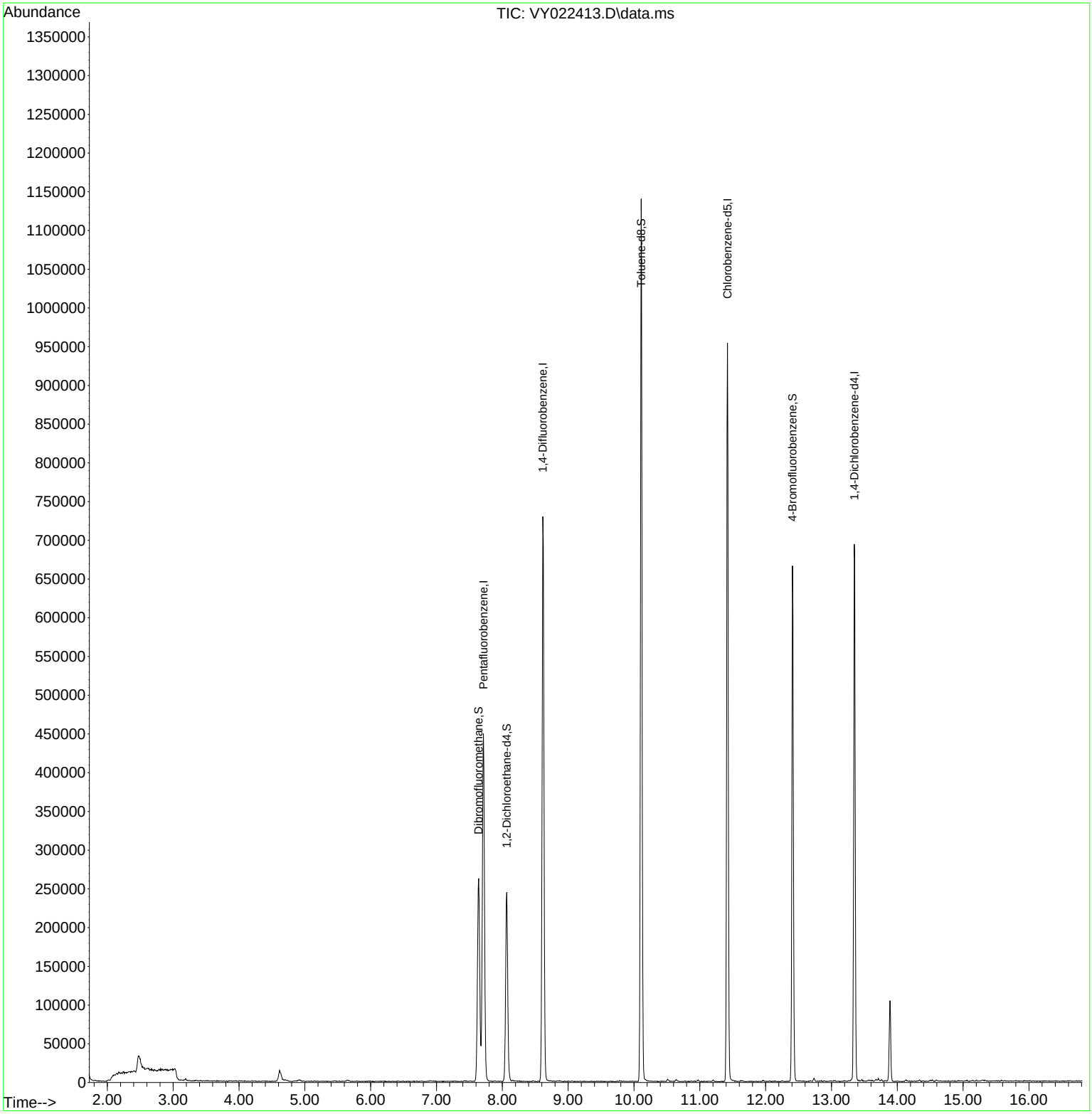
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.713	168	340717	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	608366	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	471350	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	165102	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.067	65	181573	48.761	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 97.520%			
35) Dibromofluoromethane	7.640	113	181713	50.044	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 100.080%			
50) Toluene-d8	10.109	98	712382	47.903	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 95.800%			
62) 4-Bromofluorobenzene	12.408	95	175882	37.313	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 74.620%			
Target Compounds						Qvalue

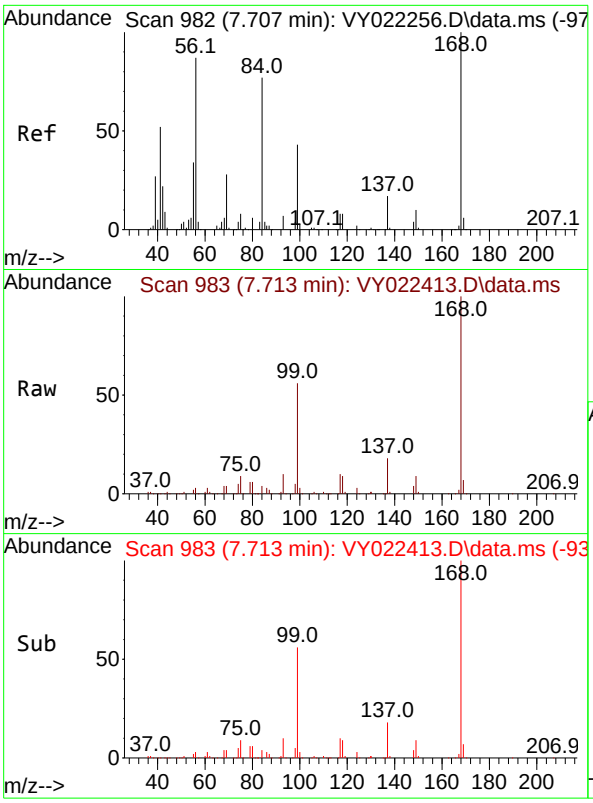
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052325\
Data File : VY022413.D
Acq On : 23 May 2025 18:01
Operator : SY/MD
Sample : Q2100-03
Misc : 7.01g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-21

Quant Time: May 23 23:23:19 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 2025
Response via : Initial Calibration



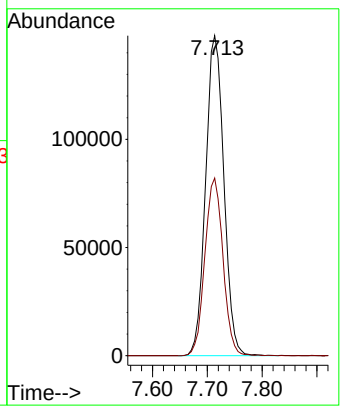


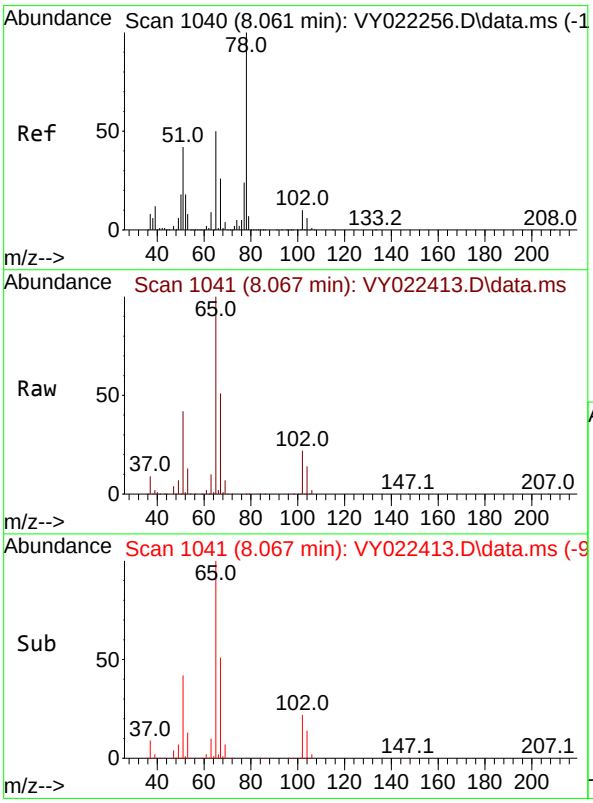
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY022413.D
Acq: 23 May 2025 18:01

Instrument :
MSVOA_Y
ClientSampleId :
TP-21

Tgt Ion:168 Resp: 340717

Ion	Ratio	Lower	Upper
168	100		
99	55.5	44.2	66.4

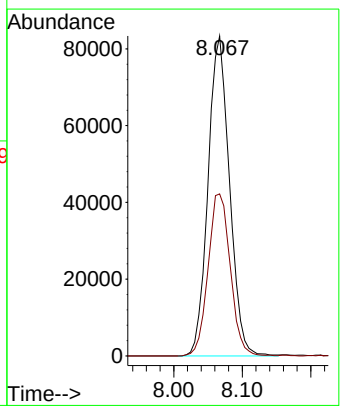


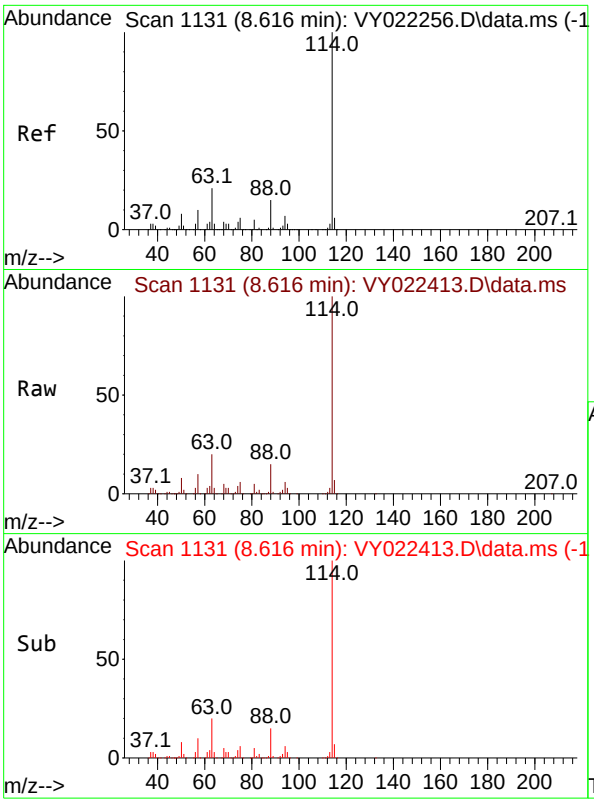


#33
1,2-Dichloroethane-d4
Concen: 48.761 ug/l
RT: 8.067 min Scan# 1041
Delta R.T. 0.006 min
Lab File: VY022413.D
Acq: 23 May 2025 18:01

Tgt Ion: 65 Resp: 181573

Ion	Ratio	Lower	Upper
65	100		
67	52.4	0.0	104.6



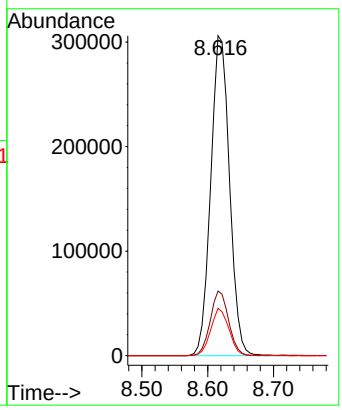


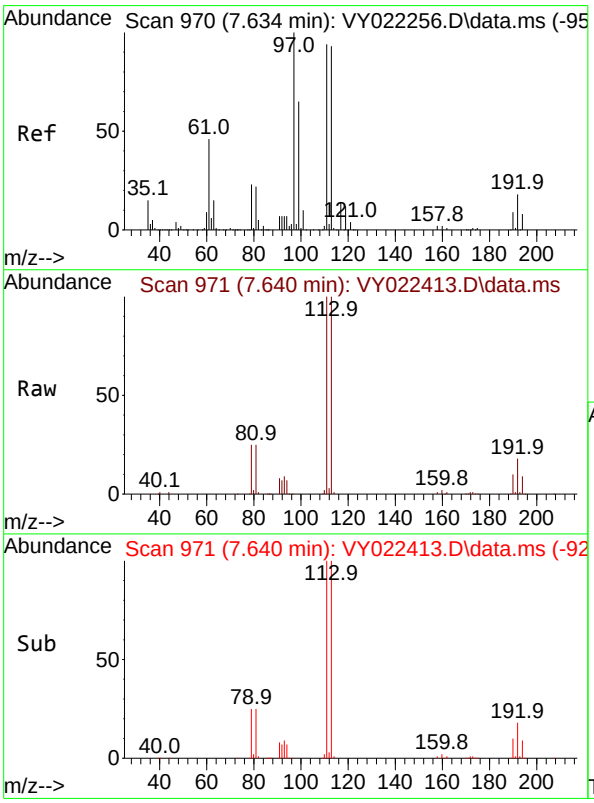
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 11
Delta R.T. 0.000 min
Lab File: VY022413.D
Acq: 23 May 2025 18:01

Instrument :
MSVOA_Y
ClientSampleId :
TP-21

Tgt Ion:114 Resp: 608366

Ion	Ratio	Lower	Upper
114	100		
63	20.2	0.0	41.0
88	14.8	0.0	29.4

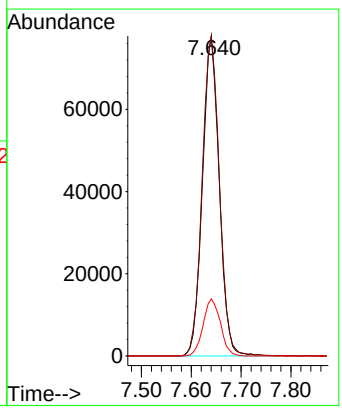


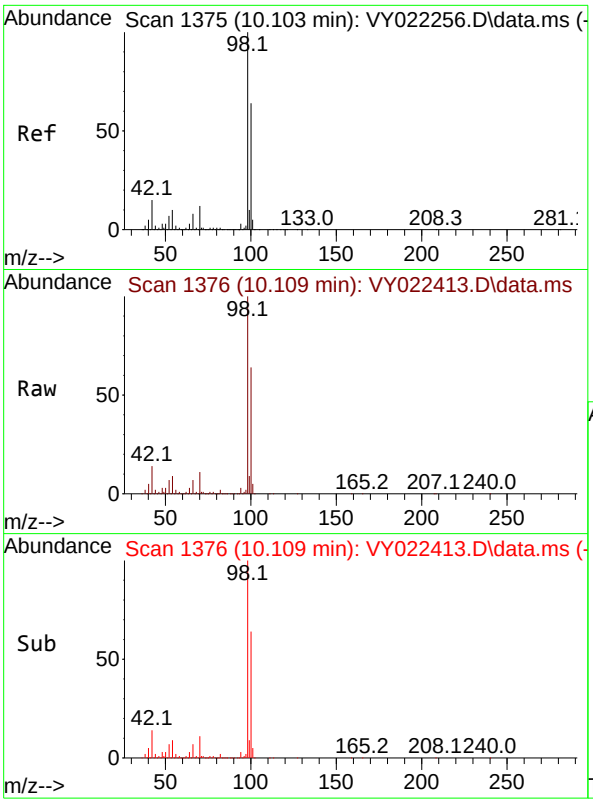


#35
Dibromofluoromethane
Concen: 50.044 ug/l
RT: 7.640 min Scan# 971
Delta R.T. 0.006 min
Lab File: VY022413.D
Acq: 23 May 2025 18:01

Tgt Ion:113 Resp: 181713

Ion	Ratio	Lower	Upper
113	100		
111	102.8	82.6	123.8
192	18.4	15.2	22.8



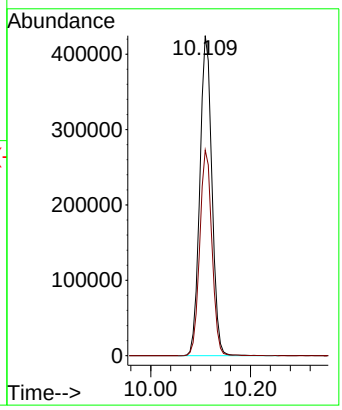


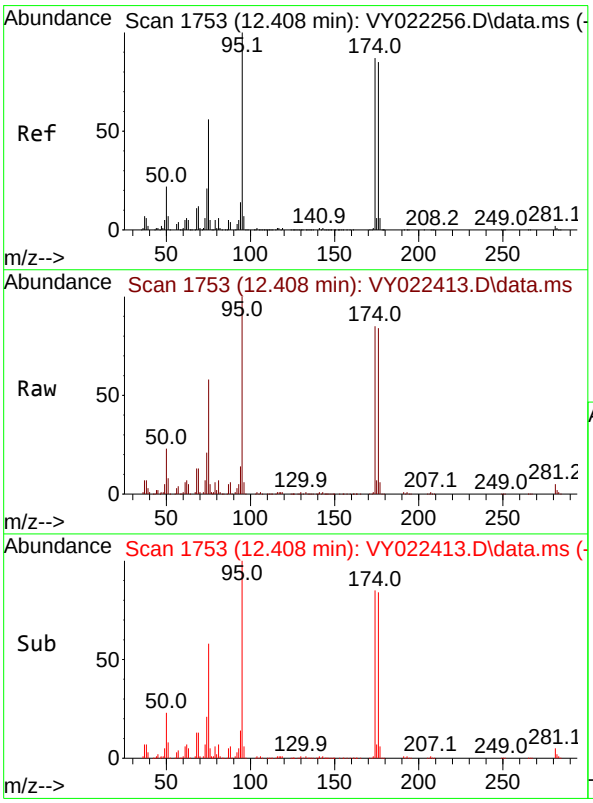
#50
Toluene-d8
Concen: 47.903 ug/l
RT: 10.109 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022413.D
Acq: 23 May 2025 18:01

Instrument :
MSVOA_Y
ClientSampleId :
TP-21

Tgt Ion: 98 Resp: 712382

Ion	Ratio	Lower	Upper
98	100		
100	64.8	51.8	77.8

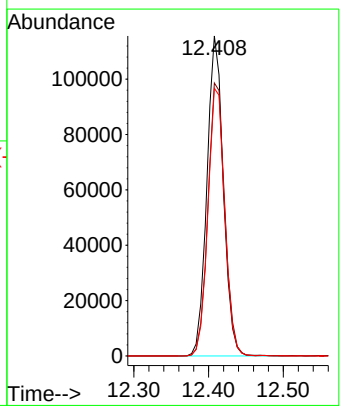


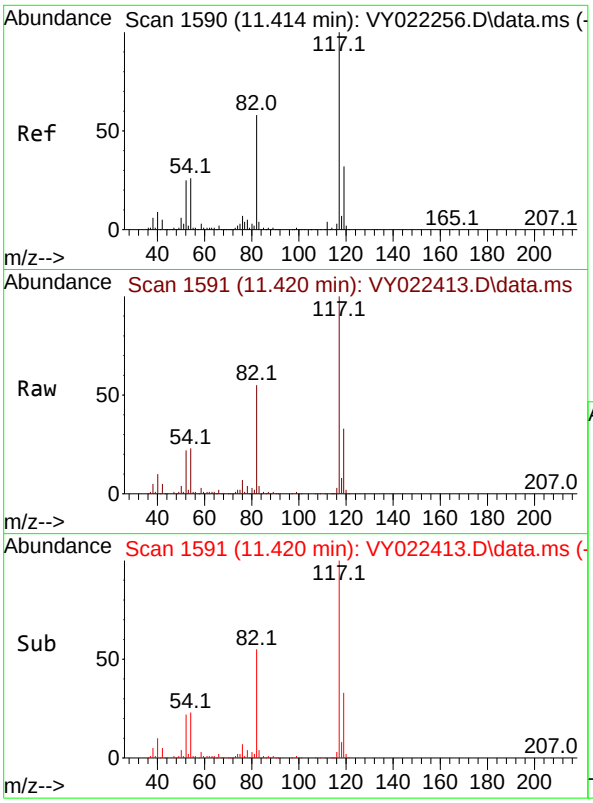


#62
4-Bromofluorobenzene
Concen: 37.313 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.000 min
Lab File: VY022413.D
Acq: 23 May 2025 18:01

Tgt Ion: 95 Resp: 175882

Ion	Ratio	Lower	Upper
95	100		
174	87.9	0.0	166.8
176	85.5	0.0	160.8



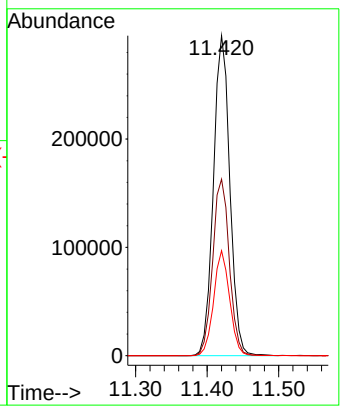


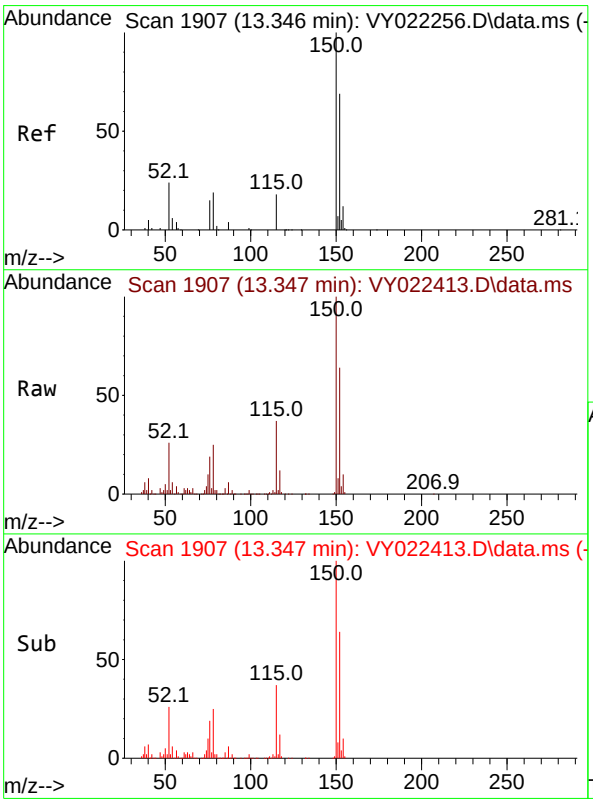
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022413.D
Acq: 23 May 2025 18:01

Instrument :
MSVOA_Y
ClientSampleId :
TP-21

Tgt Ion:117 Resp: 471350

Ion	Ratio	Lower	Upper
117	100		
82	55.2	46.6	70.0
119	32.8	25.8	38.6

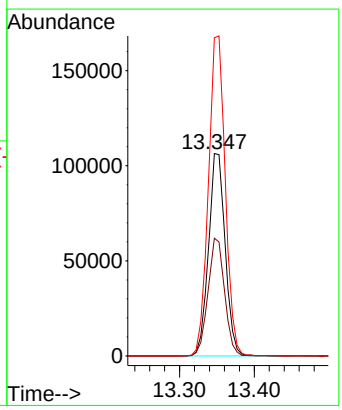




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.347 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VY022413.D
Acq: 23 May 2025 18:01

Tgt Ion:152 Resp: 165102

Ion	Ratio	Lower	Upper
152	100		
115	57.9	29.4	88.2
150	159.9	0.0	353.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052325\
Data File : VY022413.D
Acq On : 23 May 2025 18:01
Operator : SY/MD
Sample : Q2100-03
Misc : 7.01g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-21

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\82Y051525S.M
Title : SW846 8260

Signal : TIC: VY022413.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.470	116	123	133	rBV3	20939	77245	3.99%	0.811%
2	4.616	467	475	482	rBV2	13592	36005	1.86%	0.378%
3	7.640	960	971	977	rBV	262117	630968	32.62%	6.626%
4	7.713	977	983	997	rVB	448707	1017173	52.58%	10.681%
5	8.067	1030	1041	1053	rBV	244608	542318	28.03%	5.695%
6	8.616	1123	1131	1146	rBV	729451	1428956	73.87%	15.005%
7	10.109	1368	1376	1386	rBV	1139745	1934537	100.00%	20.314%
8	11.420	1581	1591	1604	rBV	953453	1536438	79.42%	16.134%
9	12.408	1745	1753	1767	rBV2	665712	1067727	55.19%	11.212%
10	13.347	1897	1907	1916	rBV	692827	1085760	56.13%	11.402%
11	13.889	1988	1996	2002	rBV	103981	165820	8.57%	1.741%

Sum of corrected areas: 9522947

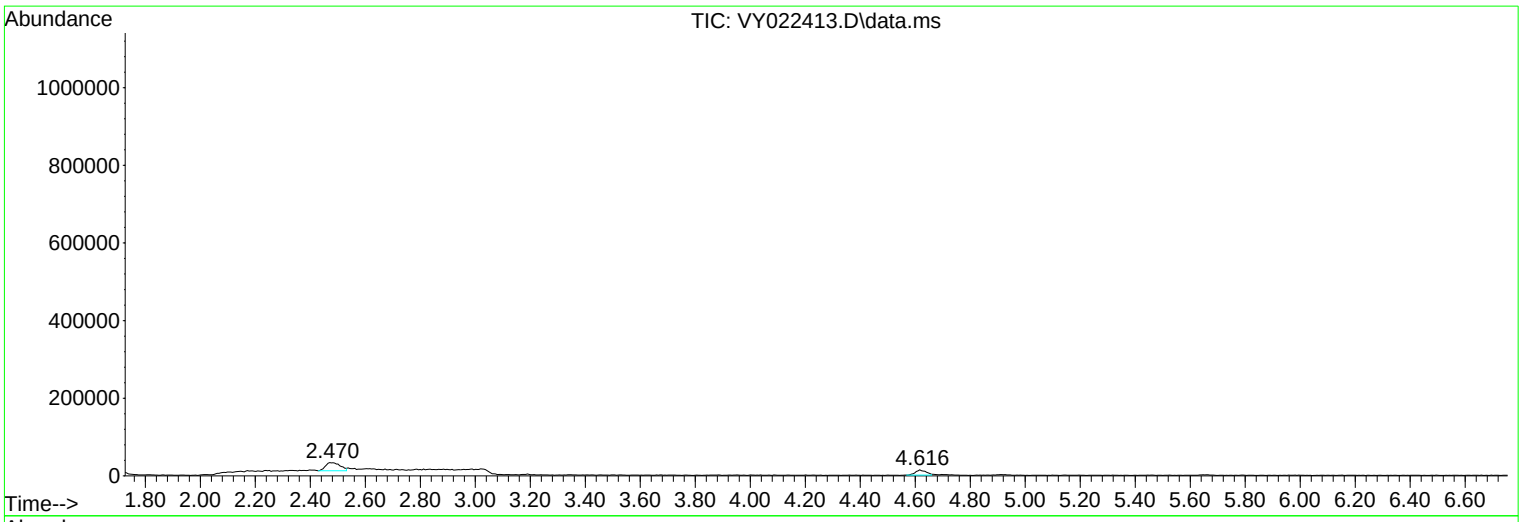
Sample Results: **VY022413.D**

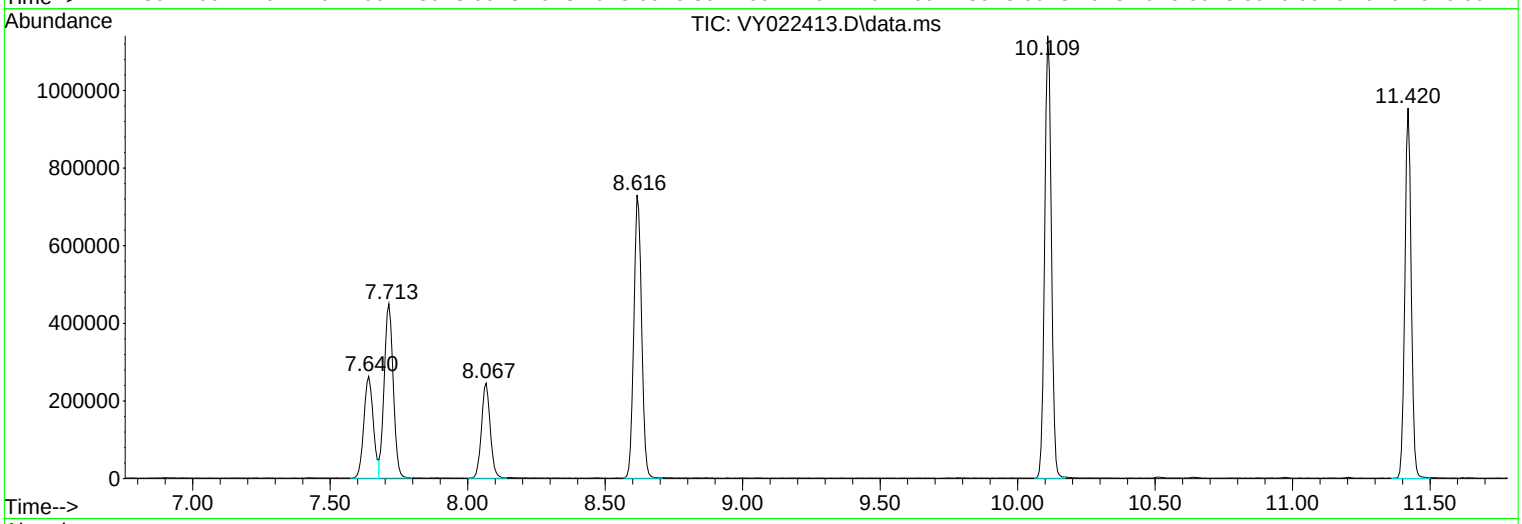
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052325\
Data File : VY022413.D
Acq On : 23 May 2025 18:01
Operator : SY/MD
Sample : Q2100-03
Misc : 7.01g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 9 Sample Multiplier: 1

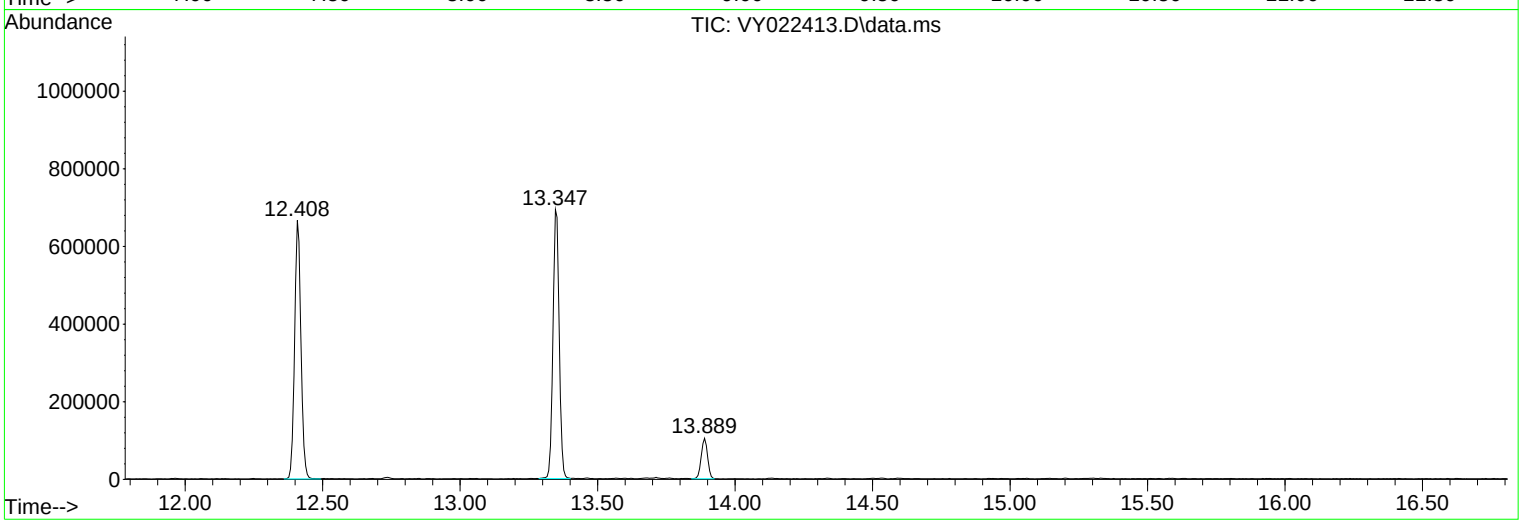
Instrument :
MSVOA_Y
ClientSampleId :
TP-21

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260

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







Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052325\
Data File : VY022413.D
Acq On : 23 May 2025 18:01
Operator : SY/MD
Sample : Q2100-03
Misc : 7.01g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-21

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.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\VY052325\
Data File : VY022413.D
Acq On : 23 May 2025 18:01
Operator : SY/MD
Sample : Q2100-03
Misc : 7.01g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-21

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.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_Y\Data\VY052225\
Data File : VY022400.D
Acq On : 22 May 2025 16:53
Operator : SY/MD
Sample : Q2100-04
Misc : 6.98g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-45

Quant Time: May 23 03:40:14 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 2025
Response via : Initial Calibration

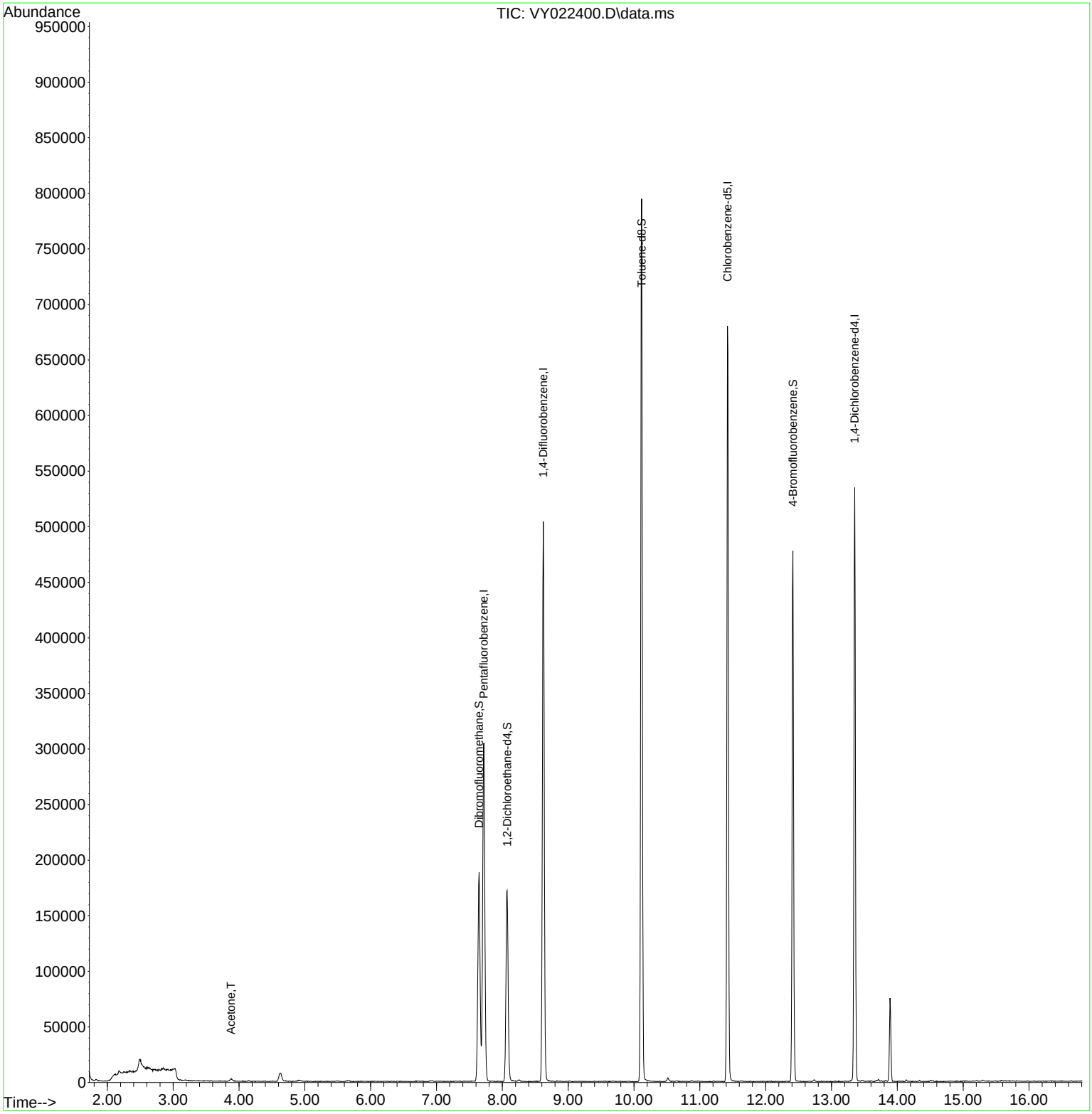
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.719	168	236218	50.000	ug/l	0.01
34) 1,4-Difluorobenzene	8.622	114	418190	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	340404	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.353	152	124499	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.073	65	130358	50.494	ug/l	0.01
Spiked Amount 50.000	Range 50 - 163		Recovery = 100.980%			
35) Dibromofluoromethane	7.646	113	128569	51.510	ug/l	0.01
Spiked Amount 50.000	Range 54 - 147		Recovery = 103.020%			
50) Toluene-d8	10.115	98	498238	48.739	ug/l	0.01
Spiked Amount 50.000	Range 58 - 134		Recovery = 97.480%			
62) 4-Bromofluorobenzene	12.414	95	128731	39.729	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 79.460%			
Target Compounds						Qvalue
16) Acetone	3.879	43	4065	8.397	ug/l	96

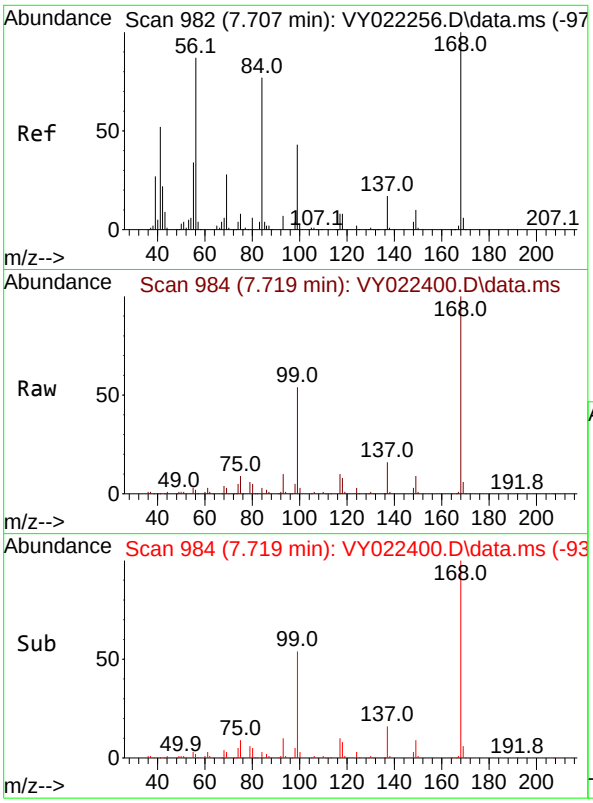
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052225\
Data File : VY022400.D
Acq On : 22 May 2025 16:53
Operator : SY/MD
Sample : Q2100-04
Misc : 6.98g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-45

Quant Time: May 23 03:40:14 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 2025
Response via : Initial Calibration



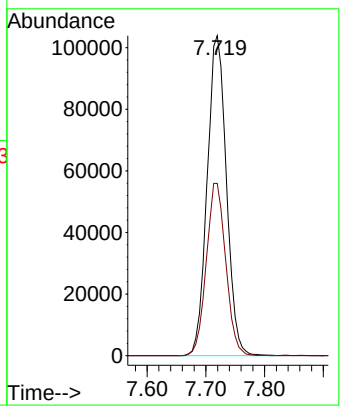


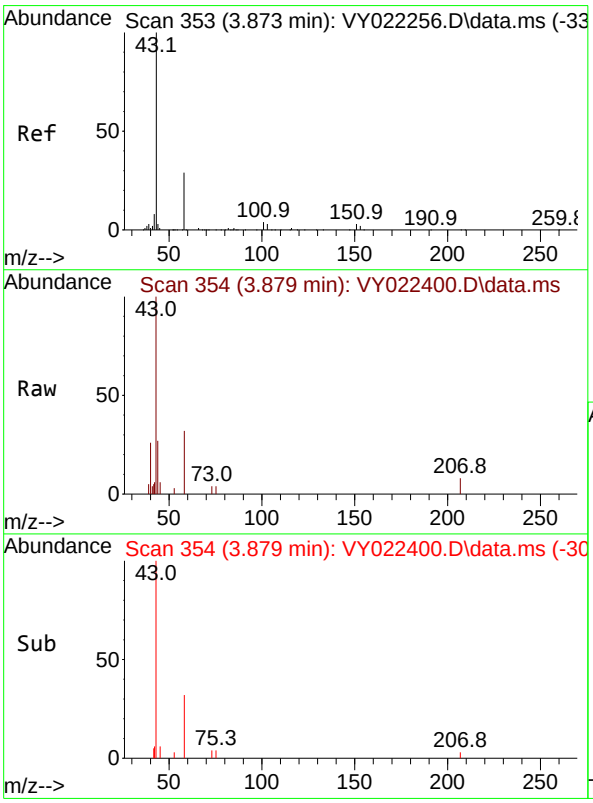
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.719 min Scan# 9
Delta R.T. 0.012 min
Lab File: VY022400.D
Acq: 22 May 2025 16:53

Instrument :
MSVOA_Y
ClientSampleId :
TP-45

Tgt Ion:168 Resp: 236218

Ion	Ratio	Lower	Upper
168	100		
99	53.9	44.2	66.4

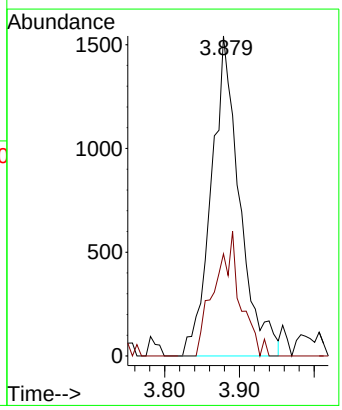




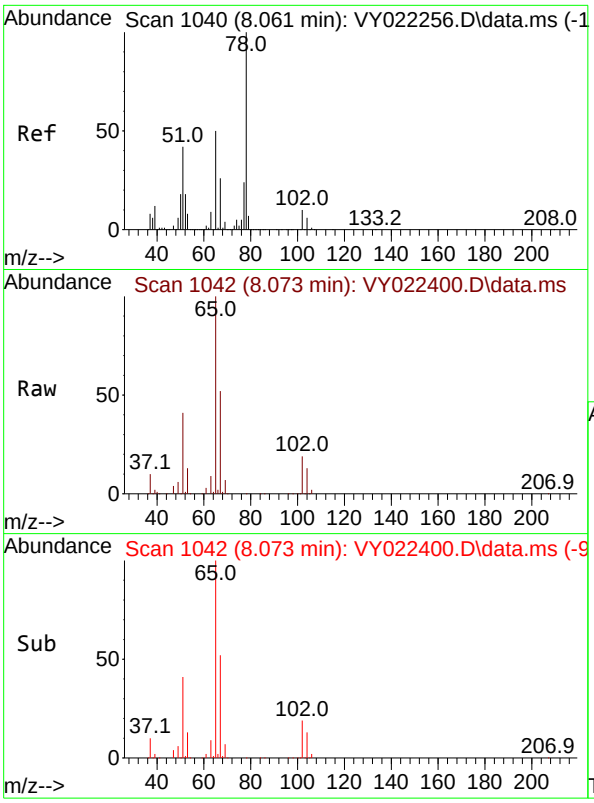
#16
Acetone
Concen: 8.397 ug/l
RT: 3.879 min Scan# 354
Delta R.T. 0.006 min
Lab File: VY022400.D
Acq: 22 May 2025 16:53

Tgt Ion: 43 Resp: 4065

Ion	Ratio	Lower	Upper
43	100		
58	31.9	23.6	35.4



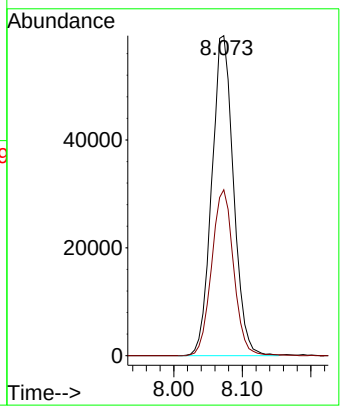
Instrument :
MSVOA_Y
ClientSampleId :
TP-45

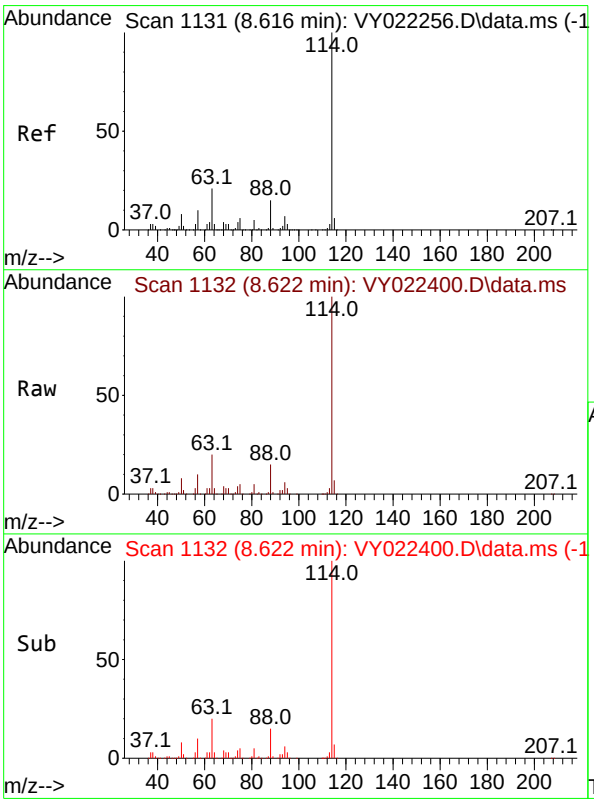


#33
1,2-Dichloroethane-d4
Concen: 50.494 ug/l
RT: 8.073 min Scan# 1
Delta R.T. 0.012 min
Lab File: VY022400.D
Acq: 22 May 2025 16:53

Tgt Ion: 65 Resp: 130358

Ion	Ratio	Lower	Upper
65	100		
67	52.6	0.0	104.6

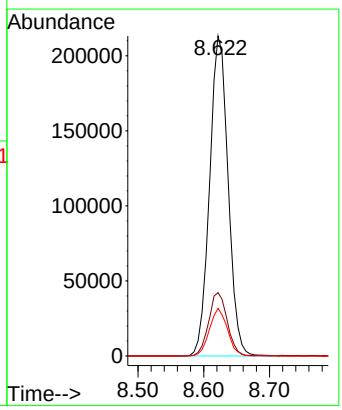


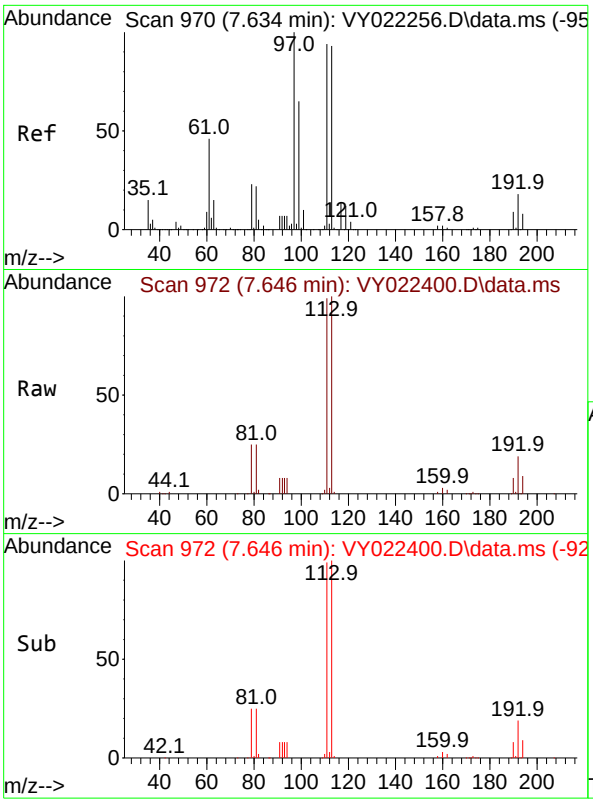


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.622 min Scan# 1132
Delta R.T. 0.006 min
Lab File: VY022400.D
Acq: 22 May 2025 16:53

Tgt Ion:114 Resp: 418190

Ion	Ratio	Lower	Upper
114	100		
63	19.8	0.0	41.0
88	14.9	0.0	29.4



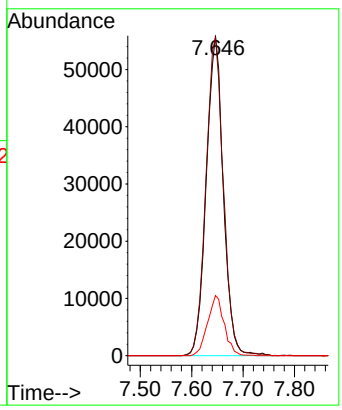


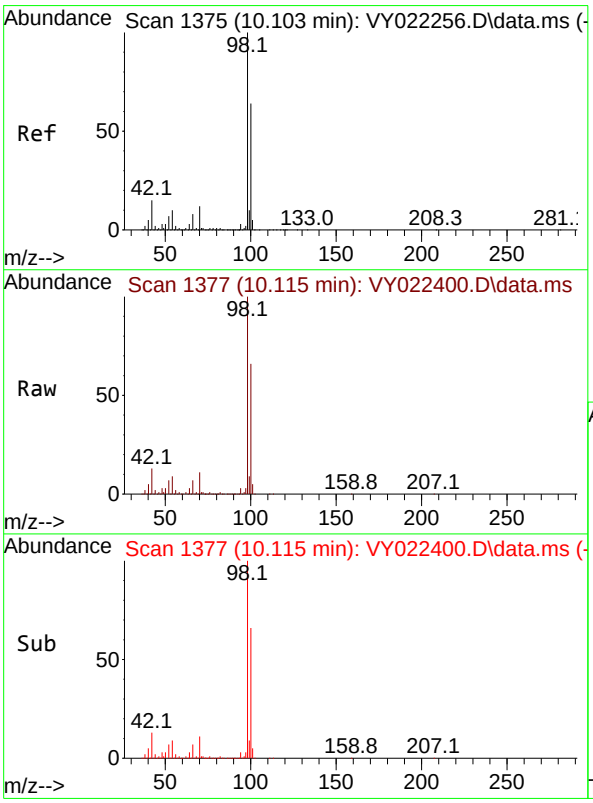
#35
Dibromofluoromethane
Concen: 51.510 ug/l
RT: 7.646 min Scan# 9
Delta R.T. 0.012 min
Lab File: VY022400.D
Acq: 22 May 2025 16:53

Instrument :
MSVOA_Y
ClientSampleId :
TP-45

Tgt Ion:113 Resp: 128569

Ion	Ratio	Lower	Upper
113	100		
111	102.2	82.6	123.8
192	18.3	15.2	22.8

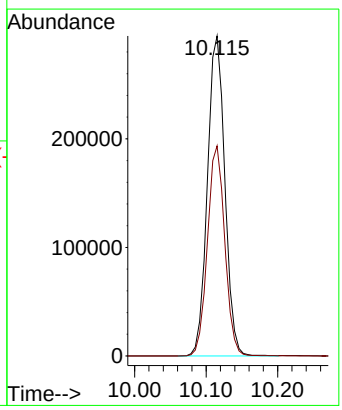


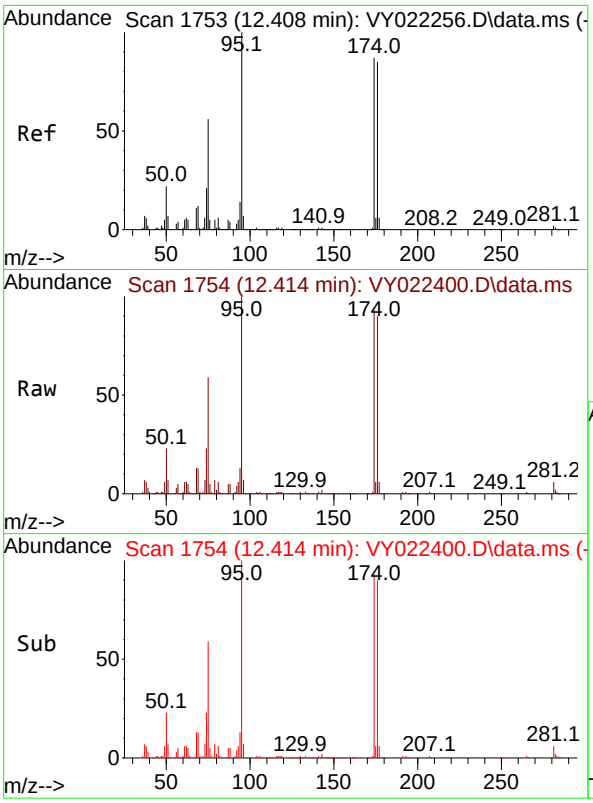


#50
Toluene-d8
Concen: 48.739 ug/l
RT: 10.115 min Scan# 1377
Delta R.T. 0.012 min
Lab File: VY022400.D
Acq: 22 May 2025 16:53

Tgt Ion: 98 Resp: 498238

Ion	Ratio	Lower	Upper
98	100		
100	65.3	51.8	77.8



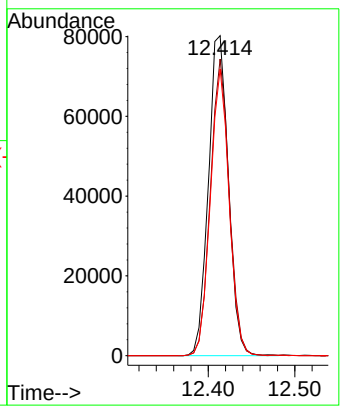


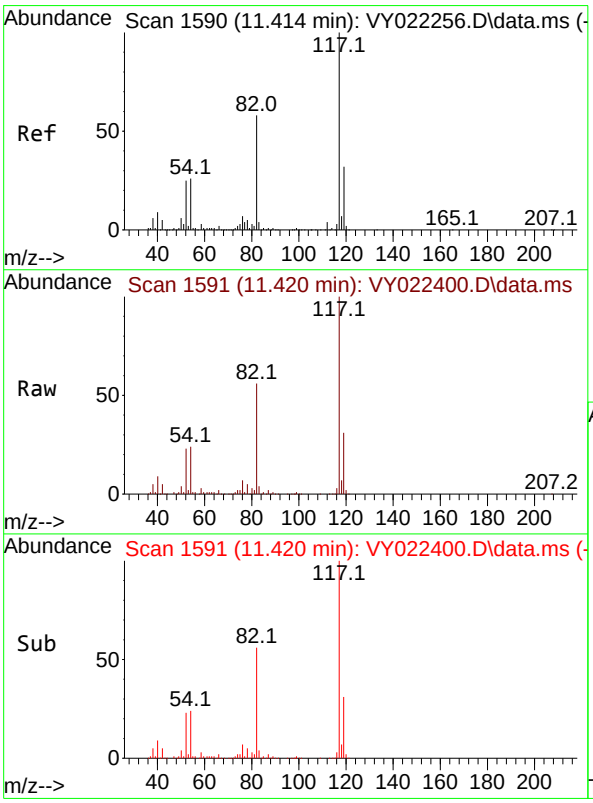
#62
4-Bromofluorobenzene
Concen: 39.729 ug/l
RT: 12.414 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022400.D
Acq: 22 May 2025 16:53

Instrument :
MSVOA_Y
ClientSampleId :
TP-45

Tgt Ion: 95 Resp: 128731

Ion	Ratio	Lower	Upper
95	100		
174	87.7	0.0	166.8
176	84.1	0.0	160.8

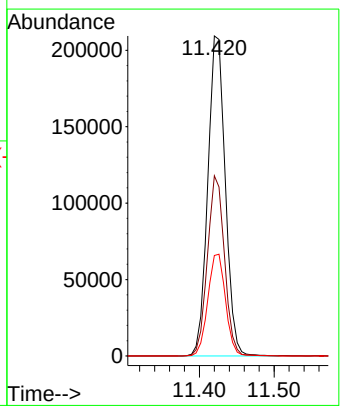


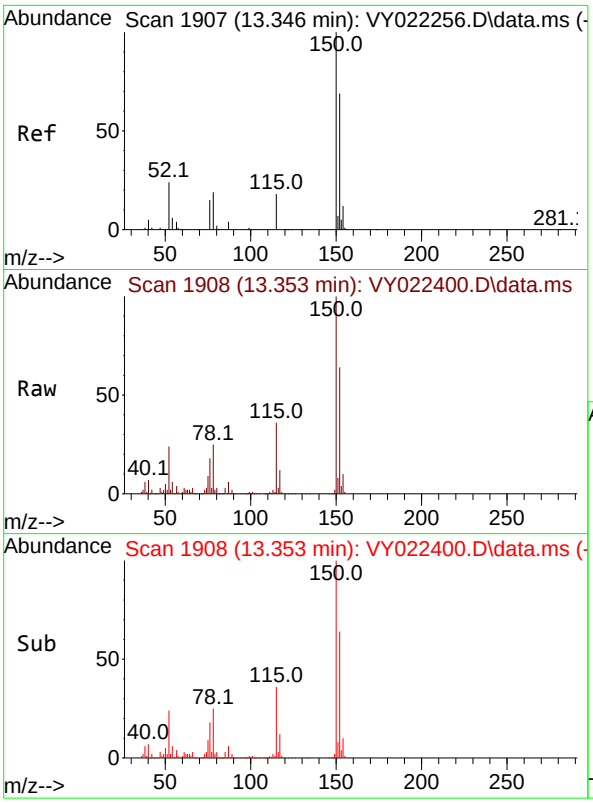


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 1591
Delta R.T. 0.006 min
Lab File: VY022400.D
Acq: 22 May 2025 16:53

Tgt Ion:117 Resp: 340404

Ion	Ratio	Lower	Upper
117	100		
82	56.3	46.6	70.0
119	31.4	25.8	38.6



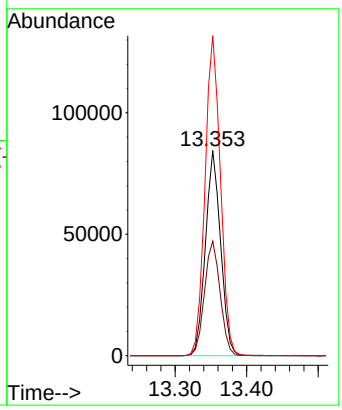


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.353 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022400.D
Acq: 22 May 2025 16:53

Instrument :
MSVOA_Y
ClientSampleId :
TP-45

Tgt Ion:152 Resp: 124499

Ion	Ratio	Lower	Upper
152	100		
115	57.7	29.4	88.2
150	158.0	0.0	353.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052225\
Data File : VY022400.D
Acq On : 22 May 2025 16:53
Operator : SY/MD
Sample : Q2100-04
Misc : 6.98g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-45

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\82Y051525S.M
Title : SW846 8260

Signal : TIC: VY022400.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.111	51	64	65	rBV6	5683	16615	1.22%	0.246%
2	2.495	120	127	130	rBV3	9839	24365	1.79%	0.361%
3	4.622	468	476	486	rBV3	7564	24437	1.80%	0.362%
4	7.646	962	972	978	rBV	187957	445636	32.80%	6.607%
5	7.719	978	984	999	rVB	304790	697846	51.36%	10.347%
6	8.073	1032	1042	1055	rBV	171557	388967	28.63%	5.767%
7	8.622	1124	1132	1145	rBV	503560	984552	72.46%	14.597%
8	10.115	1368	1377	1391	rBV	794203	1358669	100.00%	20.144%
9	11.420	1583	1591	1605	rBV	679898	1105063	81.33%	16.384%
10	12.414	1746	1754	1763	rBV2	477466	773069	56.90%	11.462%
11	13.353	1898	1908	1918	rBV	534080	811639	59.74%	12.034%
12	13.889	1989	1996	2002	rBV2	74970	113871	8.38%	1.688%

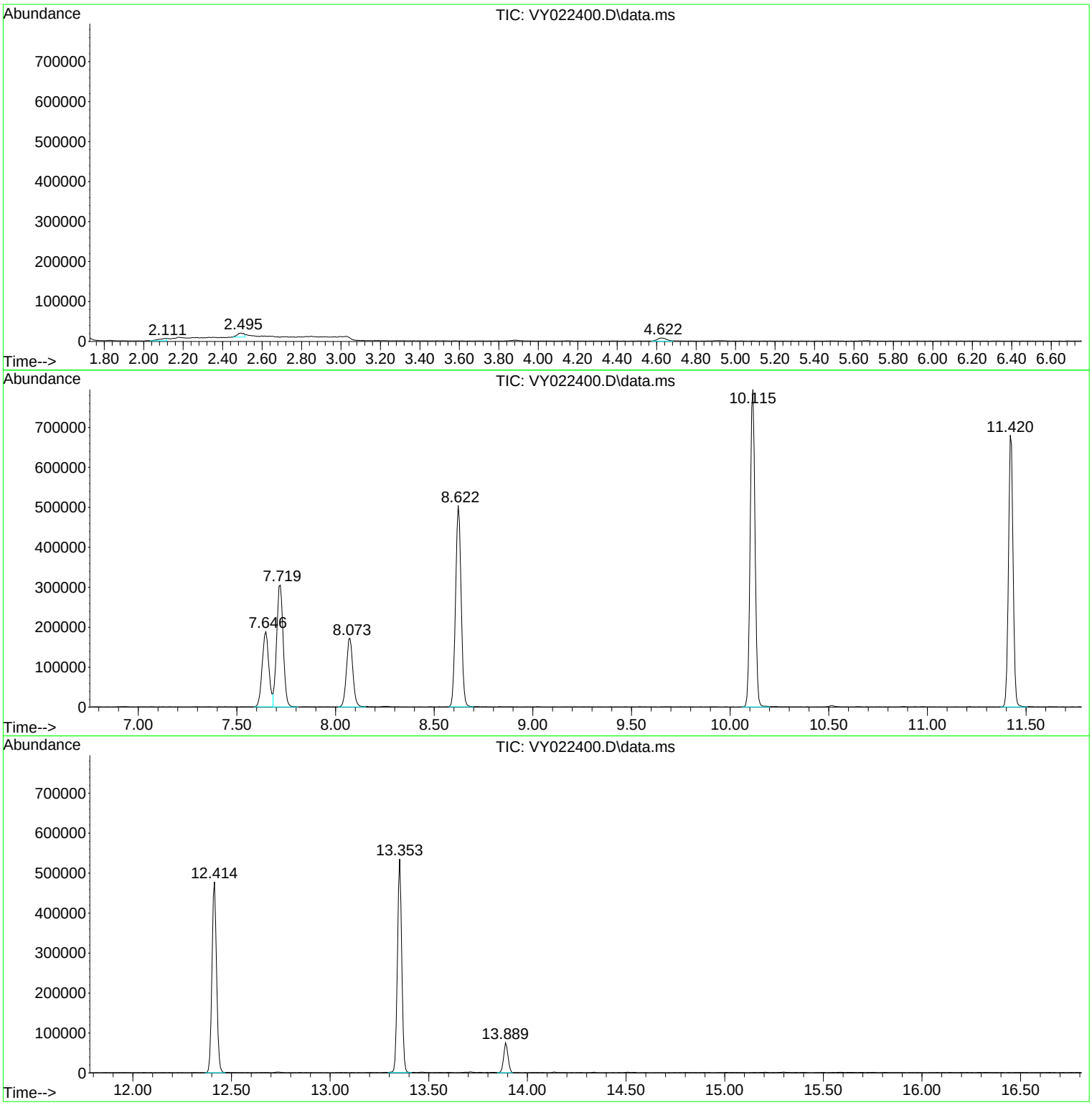
Sum of corrected areas: 6744729

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052225\
Data File : VY022400.D
Acq On : 22 May 2025 16:53
Operator : SY/MD
Sample : Q2100-04
Misc : 6.98g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-45

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052225\
Data File : VY022400.D
Acq On : 22 May 2025 16:53
Operator : SY/MD
Sample : Q2100-04
Misc : 6.98g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-45

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.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\VY052225\
Data File : VY022400.D
Acq On : 22 May 2025 16:53
Operator : SY/MD
Sample : Q2100-04
Misc : 6.98g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-45

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.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\VY052225\
Data File : VY022381.D
Acq On : 22 May 2025 09:07
Operator : SY/MD
Sample : VY0522SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0522SBL01

Quant Time: May 23 03:31:42 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 2025
Response via : Initial Calibration

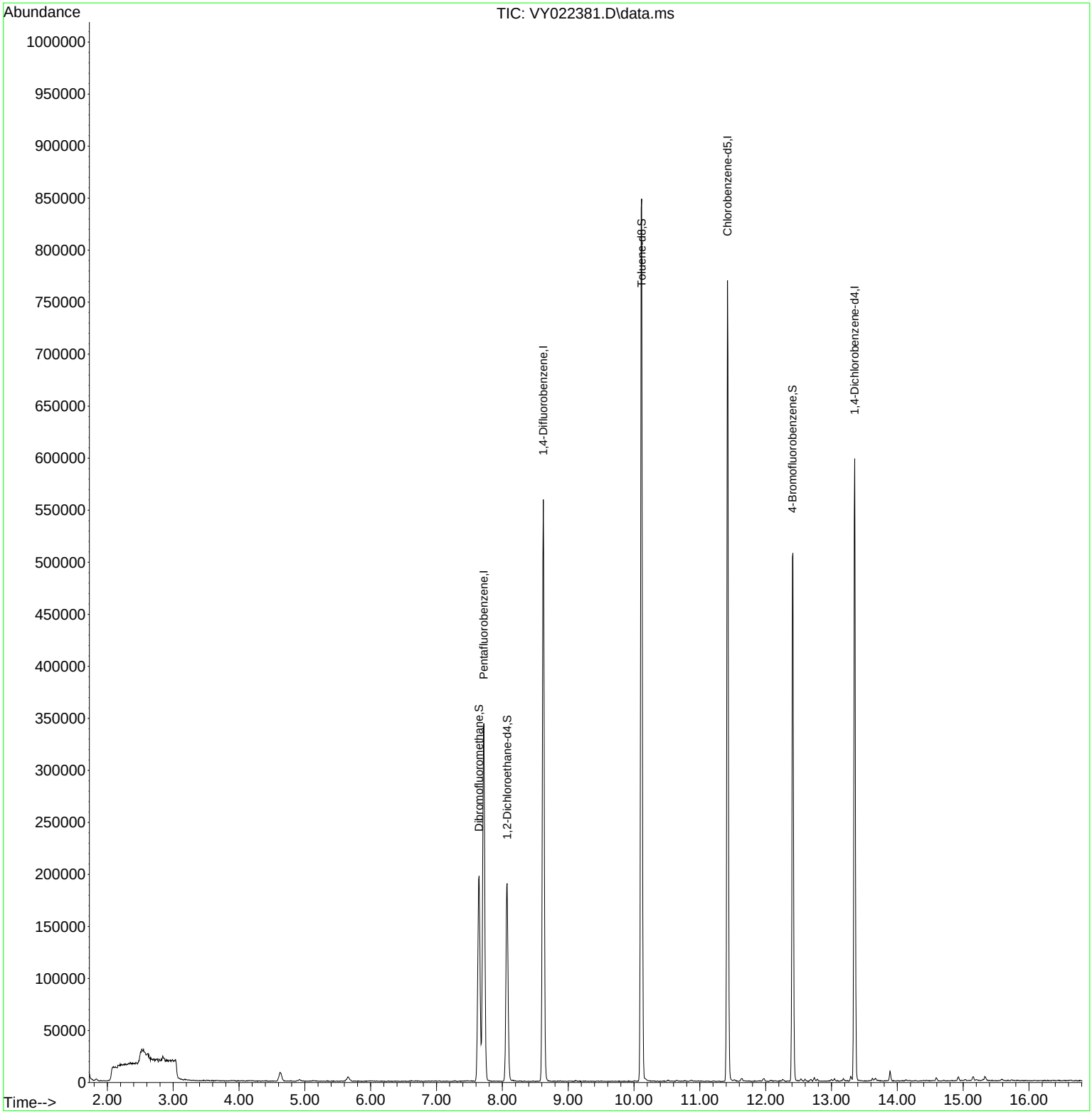
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.719	168	263712	50.000	ug/l	0.01
34) 1,4-Difluorobenzene	8.622	114	465826	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	376365	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.353	152	137350	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.073	65	140906	48.890	ug/l	0.01
Spiked Amount 50.000	Range 50 - 163		Recovery = 97.780%			
35) Dibromofluoromethane	7.646	113	138461	49.800	ug/l	0.01
Spiked Amount 50.000	Range 54 - 147		Recovery = 99.600%			
50) Toluene-d8	10.115	98	554254	48.674	ug/l	0.01
Spiked Amount 50.000	Range 58 - 134		Recovery = 97.340%			
62) 4-Bromofluorobenzene	12.408	95	142658	39.525	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 79.060%			
Target Compounds						Qvalue

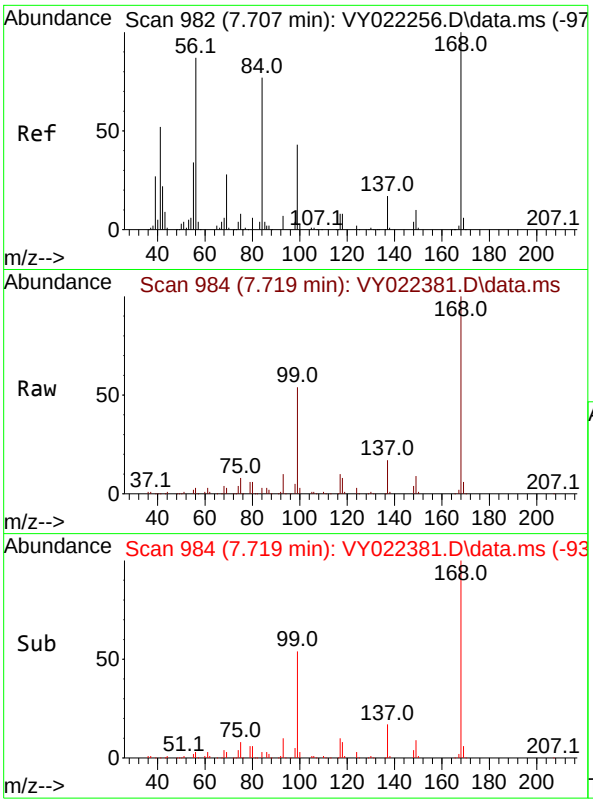
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052225\
Data File : VY022381.D
Acq On : 22 May 2025 09:07
Operator : SY/MD
Sample : VY0522SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0522SBL01

Quant Time: May 23 03:31:42 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 2025
Response via : Initial Calibration



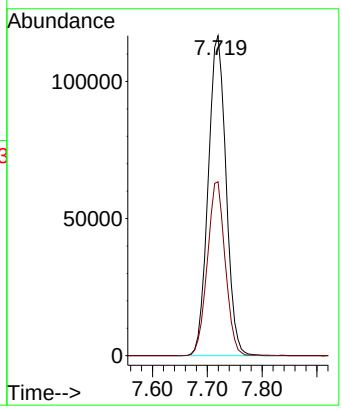


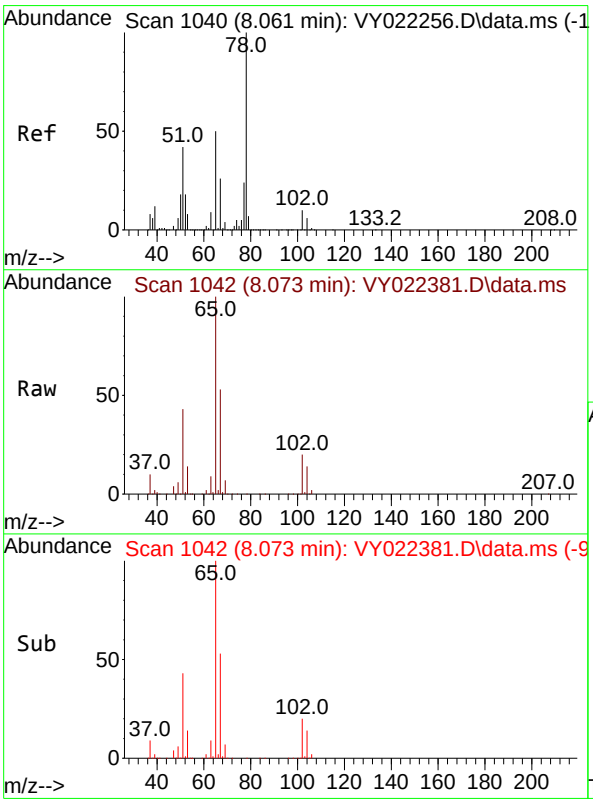
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.719 min Scan# 9
Delta R.T. 0.012 min
Lab File: VY022381.D
Acq: 22 May 2025 09:07

Instrument :
MSVOA_Y
ClientSampleId :
VY0522SBL01

Tgt Ion:168 Resp: 263712

Ion	Ratio	Lower	Upper
168	100		
99	54.4	44.2	66.4

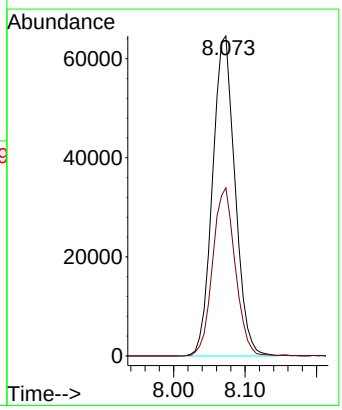


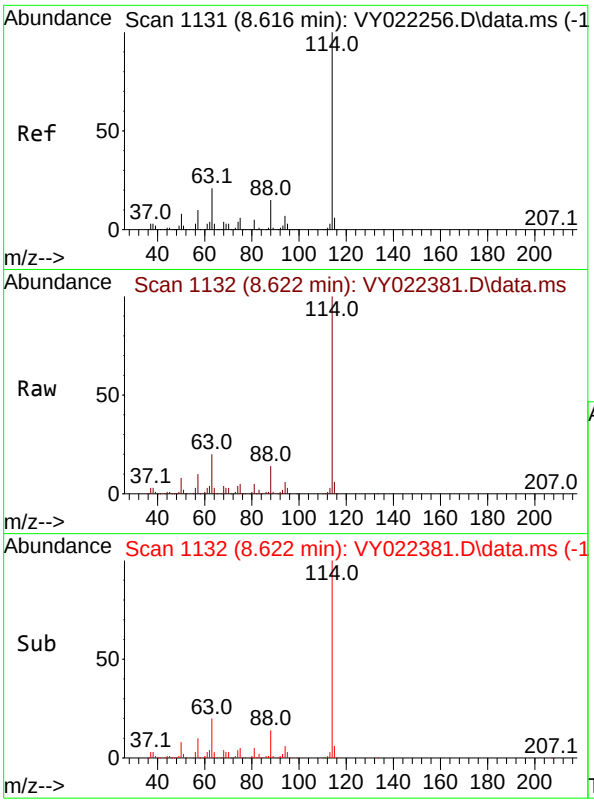


#33
1,2-Dichloroethane-d4
Concen: 48.890 ug/l
RT: 8.073 min Scan# 1042
Delta R.T. 0.012 min
Lab File: VY022381.D
Acq: 22 May 2025 09:07

Tgt Ion: 65 Resp: 140906

Ion	Ratio	Lower	Upper
65	100		
67	53.0	0.0	104.6



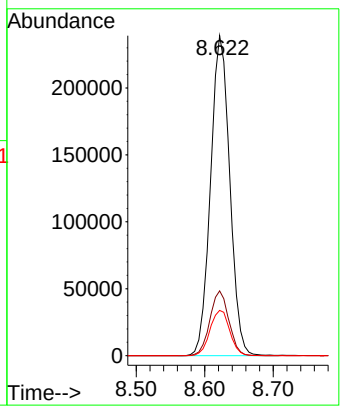


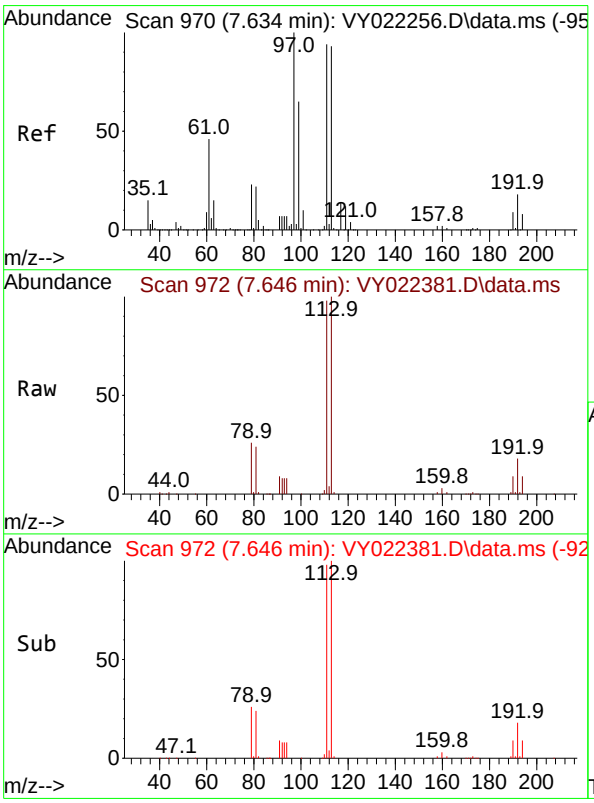
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.622 min Scan# 11
Delta R.T. 0.006 min
Lab File: VY022381.D
Acq: 22 May 2025 09:07

Instrument :
MSVOA_Y
ClientSampleId :
VY0522SBL01

Tgt Ion:114 Resp: 465826

Ion	Ratio	Lower	Upper
114	100		
63	20.2	0.0	41.0
88	14.1	0.0	29.4

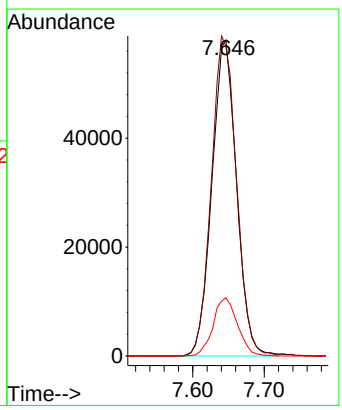


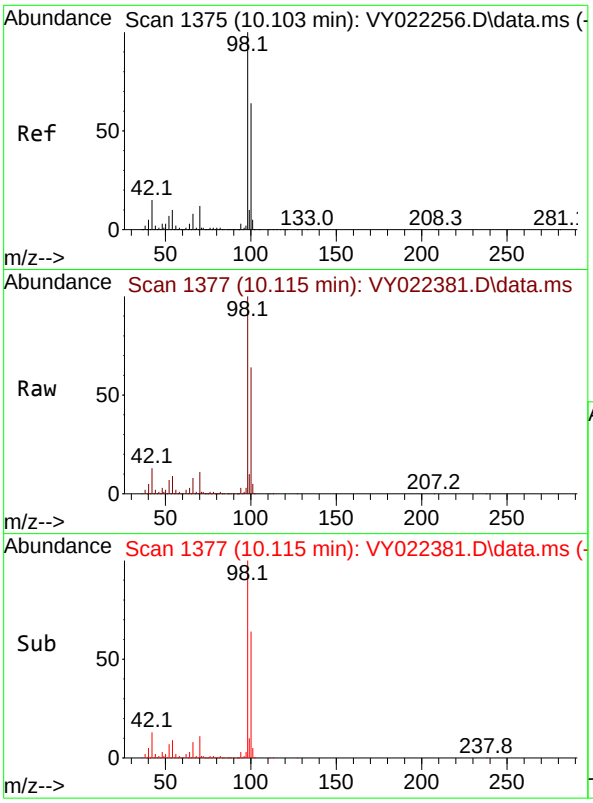


#35
Dibromofluoromethane
Concen: 49.800 ug/l
RT: 7.646 min Scan# 972
Delta R.T. 0.012 min
Lab File: VY022381.D
Acq: 22 May 2025 09:07

Tgt Ion:113 Resp: 138461

Ion	Ratio	Lower	Upper
113	100		
111	103.6	82.6	123.8
192	18.2	15.2	22.8



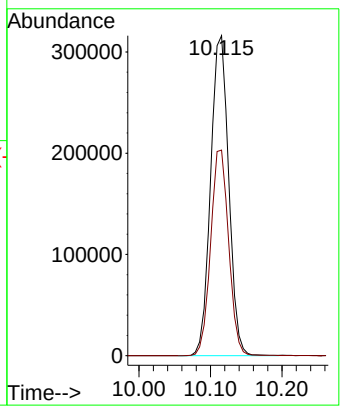


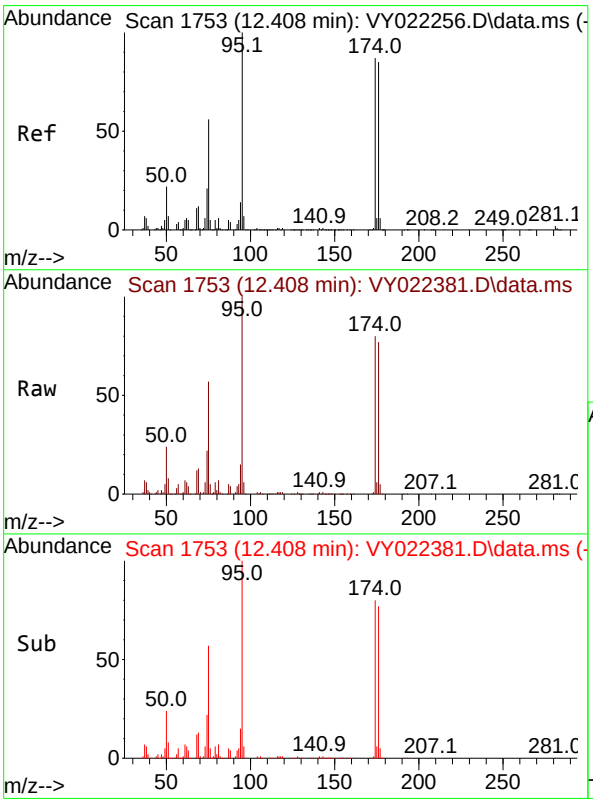
#50
Toluene-d8
Concen: 48.674 ug/l
RT: 10.115 min Scan# 1
Delta R.T. 0.012 min
Lab File: VY022381.D
Acq: 22 May 2025 09:07

Instrument :
MSVOA_Y
ClientSampleId :
VY0522SBL01

Tgt Ion: 98 Resp: 554254

Ion	Ratio	Lower	Upper
98	100		
100	64.2	51.8	77.8

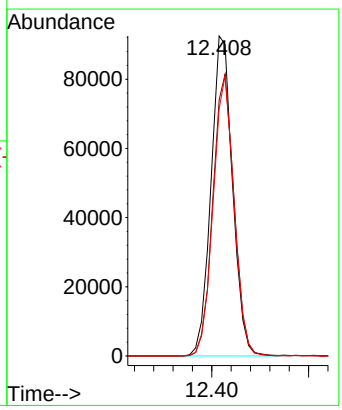


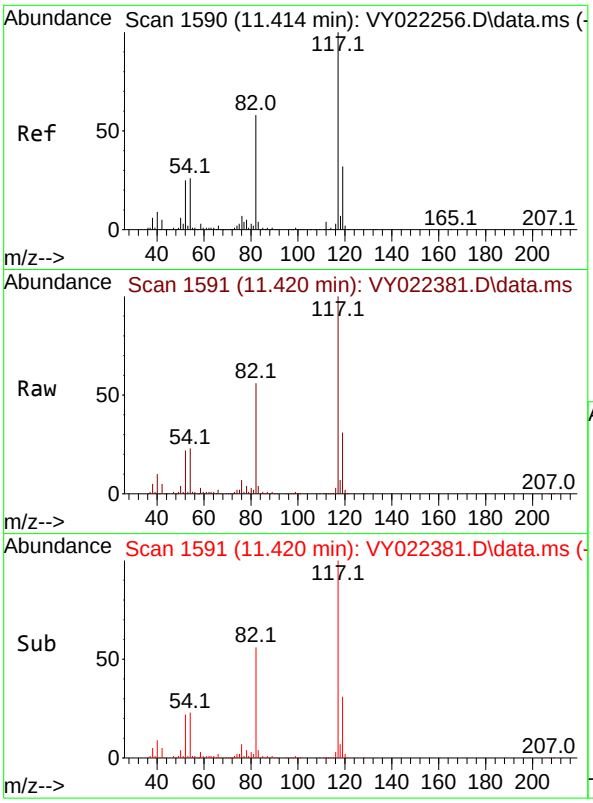


#62
4-Bromofluorobenzene
Concen: 39.525 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.000 min
Lab File: VY022381.D
Acq: 22 May 2025 09:07

Tgt Ion: 95 Resp: 142658

Ion	Ratio	Lower	Upper
95	100		
174	86.8	0.0	166.8
176	85.2	0.0	160.8



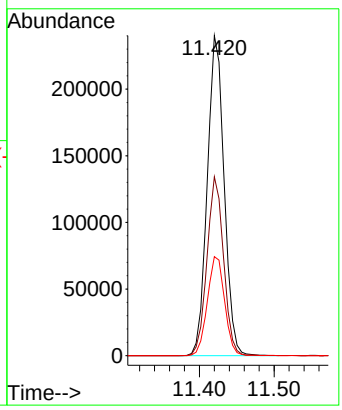


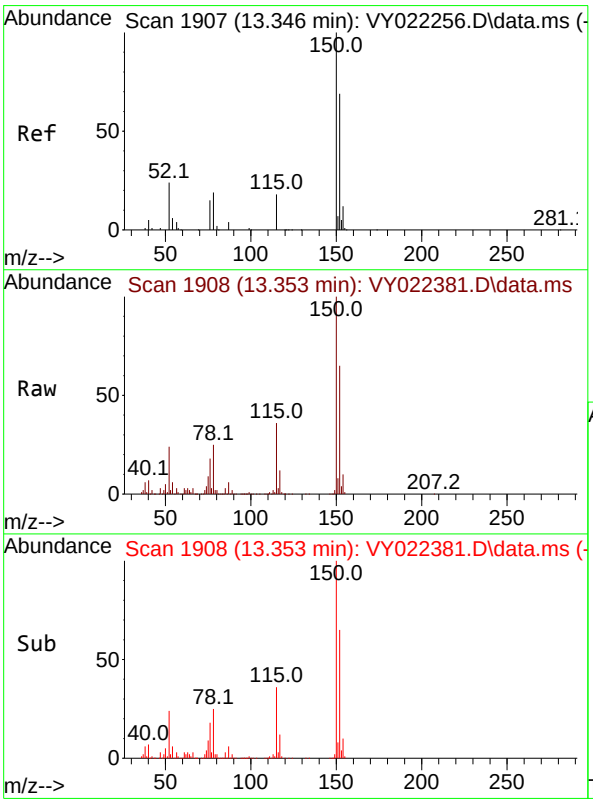
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022381.D
Acq: 22 May 2025 09:07

Instrument :
MSVOA_Y
ClientSampleId :
VY0522SBL01

Tgt Ion:117 Resp: 376365

Ion	Ratio	Lower	Upper
117	100		
82	55.9	46.6	70.0
119	31.0	25.8	38.6

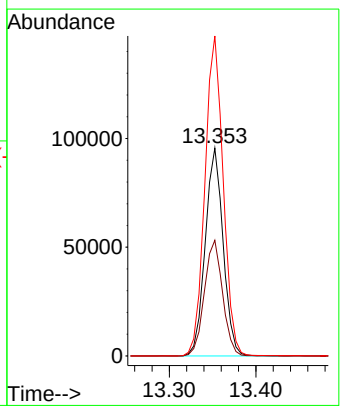




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.353 min Scan# 1908
Delta R.T. 0.006 min
Lab File: VY022381.D
Acq: 22 May 2025 09:07

Tgt Ion:152 Resp: 137350

Ion	Ratio	Lower	Upper
152	100		
115	56.5	29.4	88.2
150	157.1	0.0	353.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052225\
Data File : VY022381.D
Acq On : 22 May 2025 09:07
Operator : SY/MD
Sample : VY0522SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0522SBL01

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\82Y051525S.M
Title : SW846 8260

Signal : TIC: VY022381.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	46	59	60	rBV5	13183	26197	1.74%	0.361%
2	4.622	466	476	486	rBV2	8616	26540	1.77%	0.366%
3	7.646	962	972	977	rBV	197533	474258	31.57%	6.539%
4	7.719	977	984	994	rVB	343189	786755	52.38%	10.848%
5	8.073	1031	1042	1053	rBV	190297	421547	28.07%	5.812%
6	8.622	1124	1132	1145	rVB	558969	1092880	72.76%	15.069%
7	10.115	1369	1377	1385	rBV	848017	1502036	100.00%	20.711%
8	11.420	1583	1591	1604	rBV	769811	1222504	81.39%	16.856%
9	12.414	1747	1754	1763	rBV	507460	807002	53.73%	11.127%
10	13.353	1902	1908	1916	rVB	597669	892776	59.44%	12.310%

Sum of corrected areas: 7252495

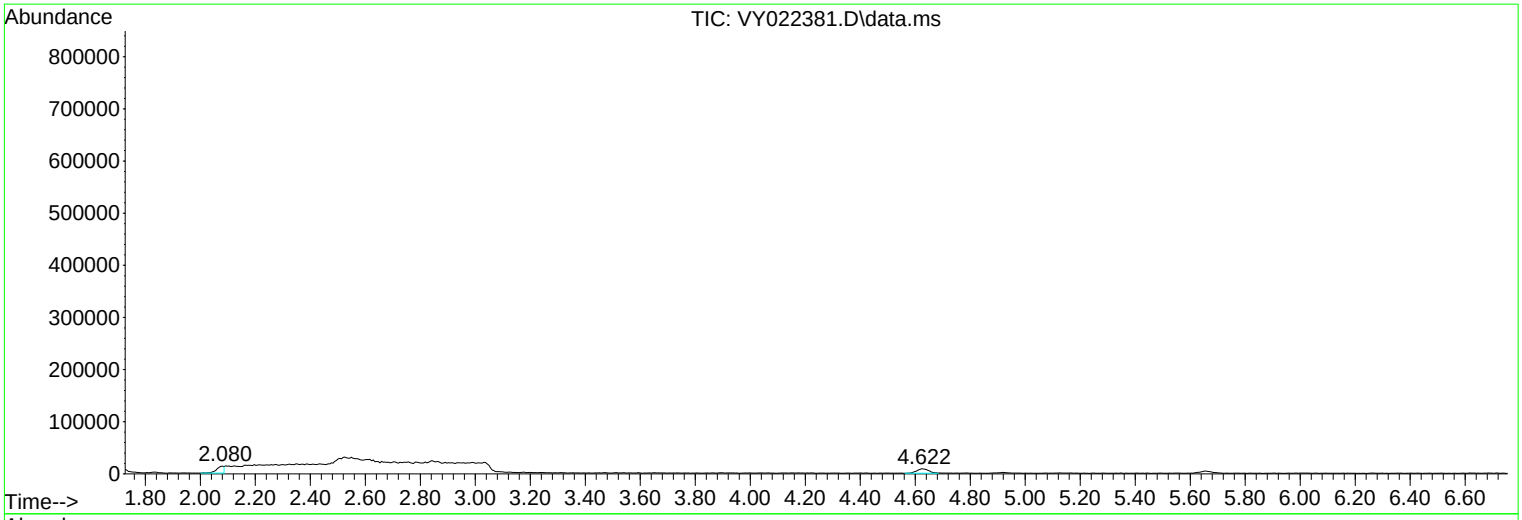
Sample Results: **VY022381.D**

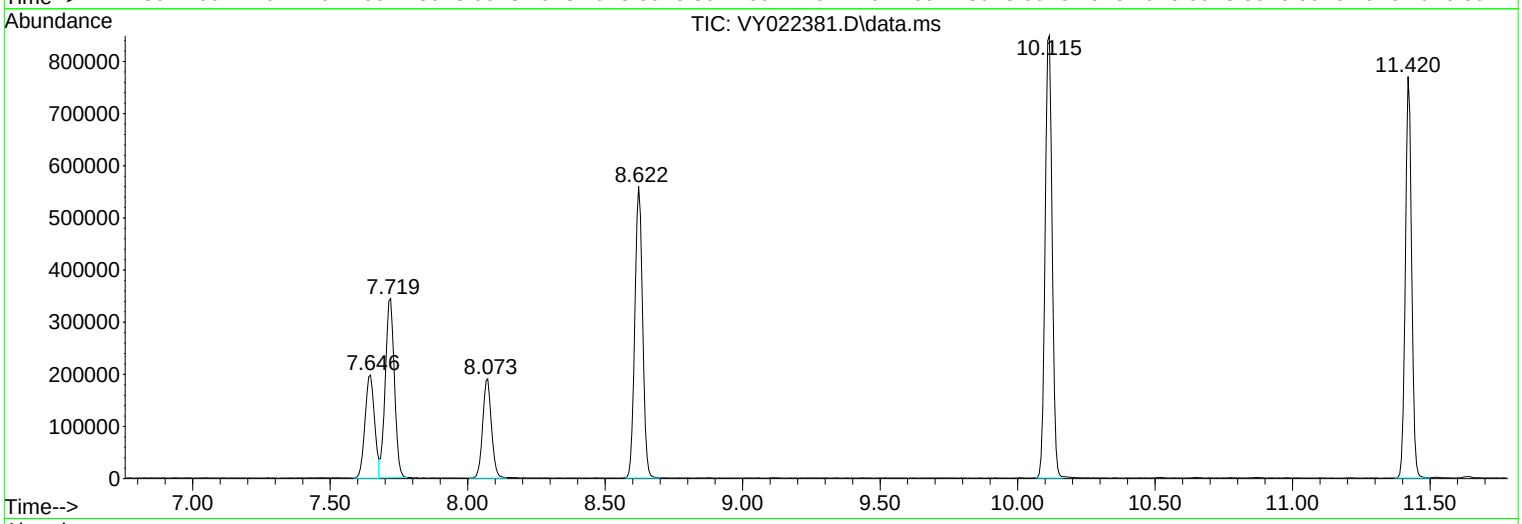
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052225\
Data File : VY022381.D
Acq On : 22 May 2025 09:07
Operator : SY/MD
Sample : VY0522SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

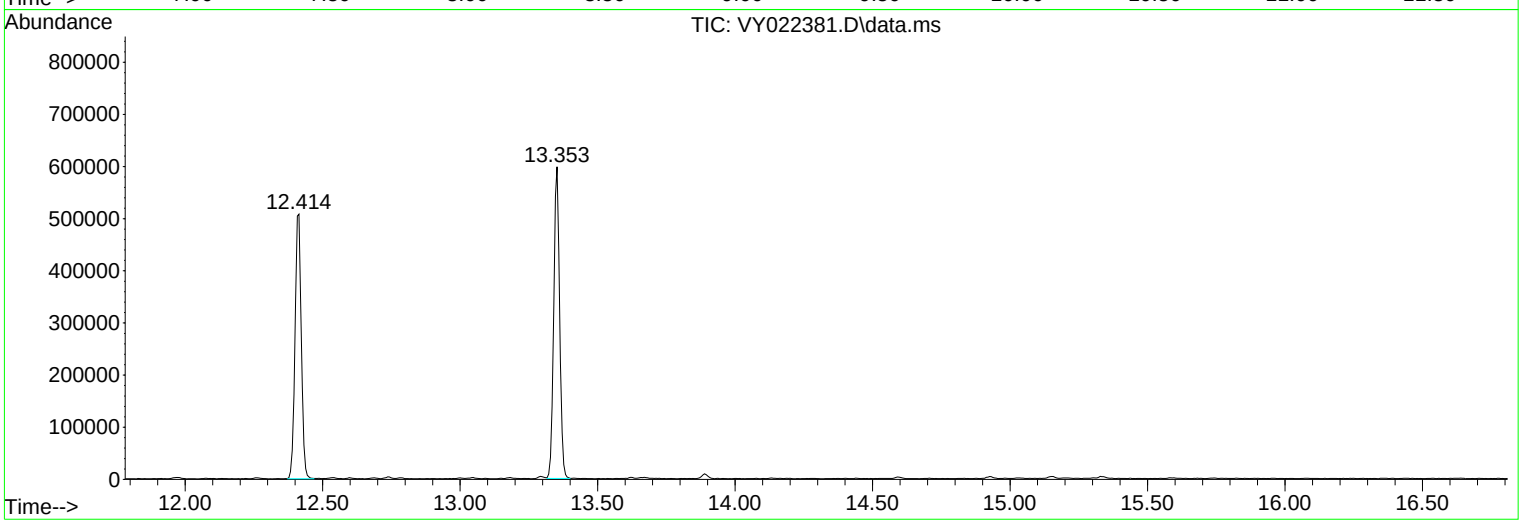
Instrument :
MSVOA_Y
ClientSampleId :
VY0522SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260

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







Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052225\
Data File : VY022381.D
Acq On : 22 May 2025 09:07
Operator : SY/MD
Sample : VY0522SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0522SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.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\VY052225\
Data File : VY022381.D
Acq On : 22 May 2025 09:07
Operator : SY/MD
Sample : VY0522SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0522SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.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\VY052325\
Data File : VY022408.D
Acq On : 23 May 2025 15:26
Operator : SY/MD
Sample : VY0523SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0523SBL01

Quant Time: May 23 23:20:02 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.713	168	328707	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.621	114	590839	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	465211	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.352	152	167300	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.067	65	201654	56.133	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 112.260%			
35) Dibromofluoromethane	7.640	113	200071	56.734	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 113.460%			
50) Toluene-d8	10.109	98	790680	54.745	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 109.500%			
62) 4-Bromofluorobenzene	12.407	95	201473	44.010	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 88.020%			

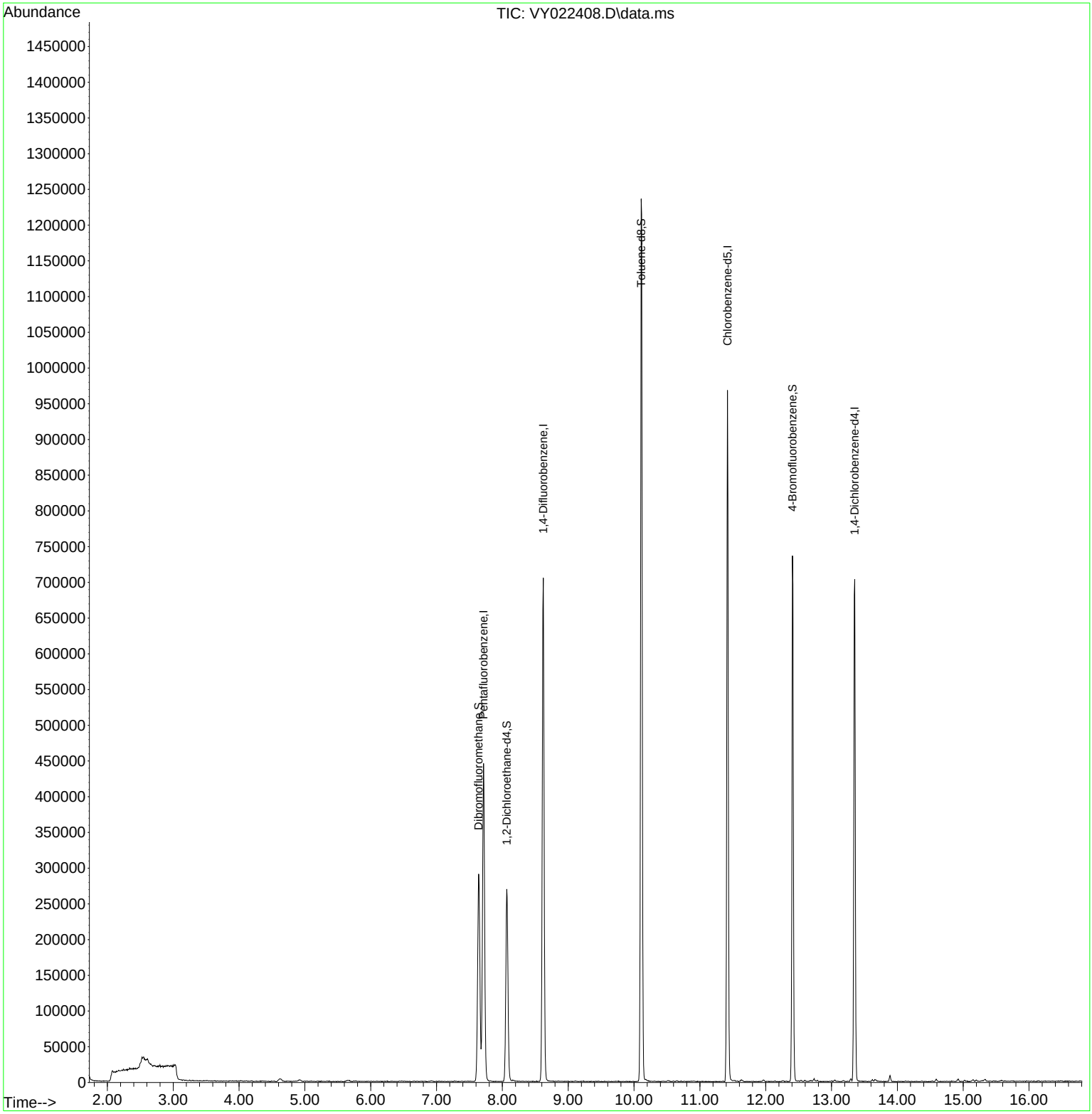
Target Compounds Qvalue

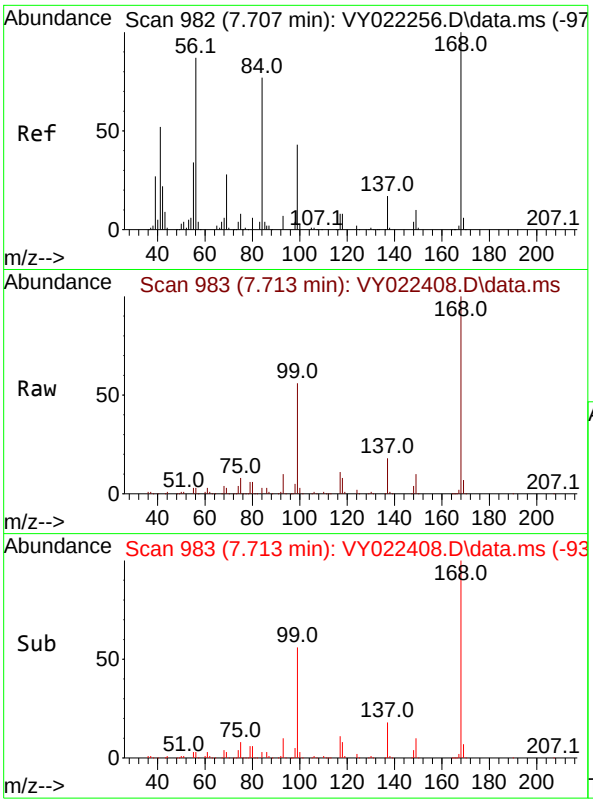
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052325\
Data File : VY022408.D
Acq On : 23 May 2025 15:26
Operator : SY/MD
Sample : VY0523SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0523SBL01

Quant Time: May 23 23:20:02 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 2025
Response via : Initial Calibration



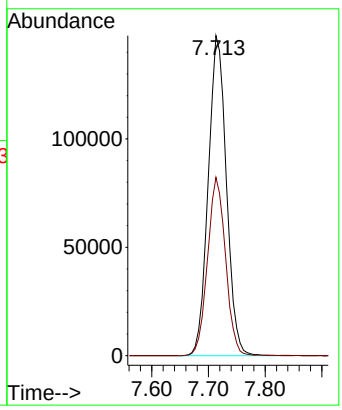


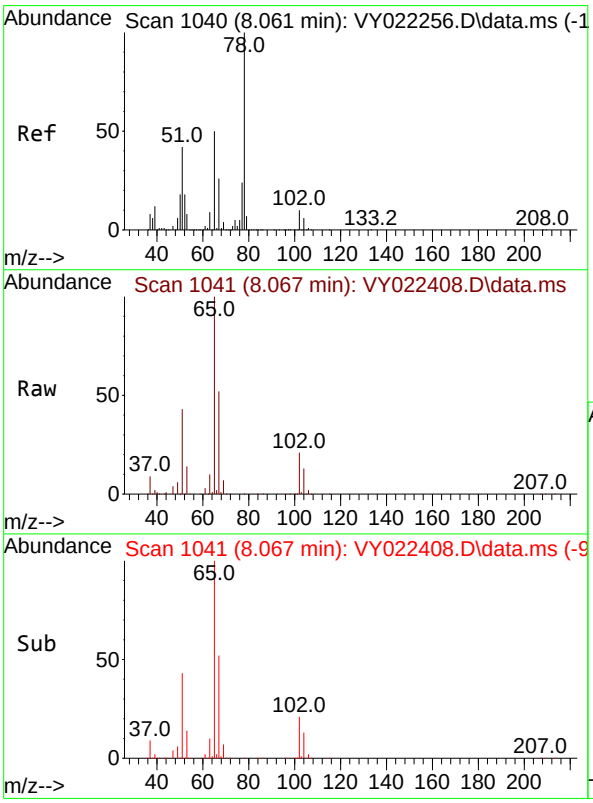
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY022408.D
Acq: 23 May 2025 15:26

Instrument :
MSVOA_Y
ClientSampleId :
VY0523SBL01

Tgt Ion:168 Resp: 328707

Ion	Ratio	Lower	Upper
168	100		
99	55.7	44.2	66.4

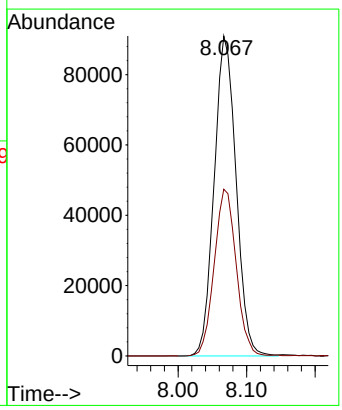


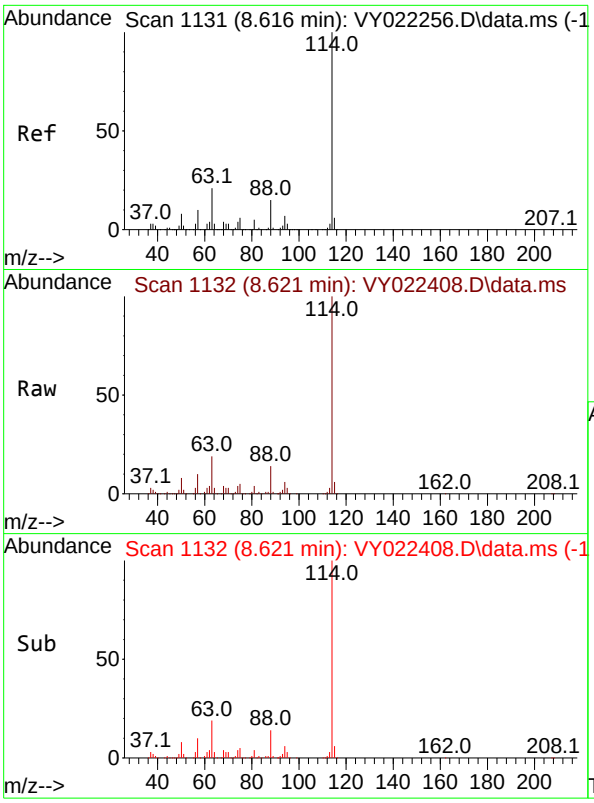


#33
1,2-Dichloroethane-d4
Concen: 56.133 ug/l
RT: 8.067 min Scan# 1041
Delta R.T. 0.006 min
Lab File: VY022408.D
Acq: 23 May 2025 15:26

Tgt Ion: 65 Resp: 201654

Ion	Ratio	Lower	Upper
65	100		
67	52.4	0.0	104.6



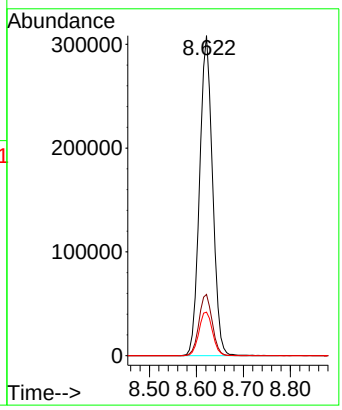


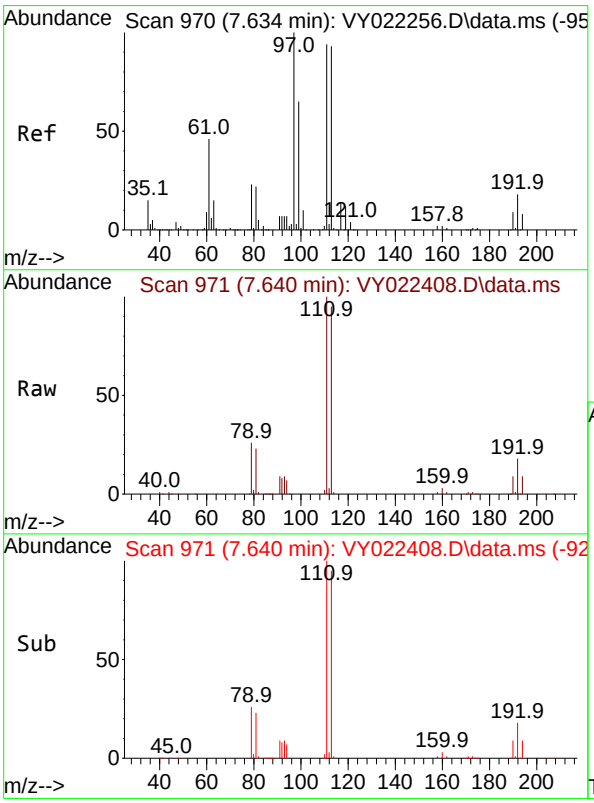
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.621 min Scan# 11
Delta R.T. 0.006 min
Lab File: VY022408.D
Acq: 23 May 2025 15:26

Instrument :
MSVOA_Y
ClientSampleId :
VY0523SBL01

Tgt Ion:114 Resp: 590839

Ion	Ratio	Lower	Upper
114	100		
63	19.2	0.0	41.0
88	13.6	0.0	29.4

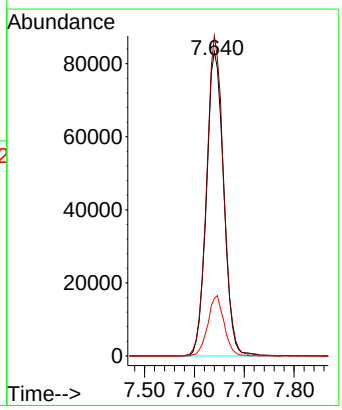


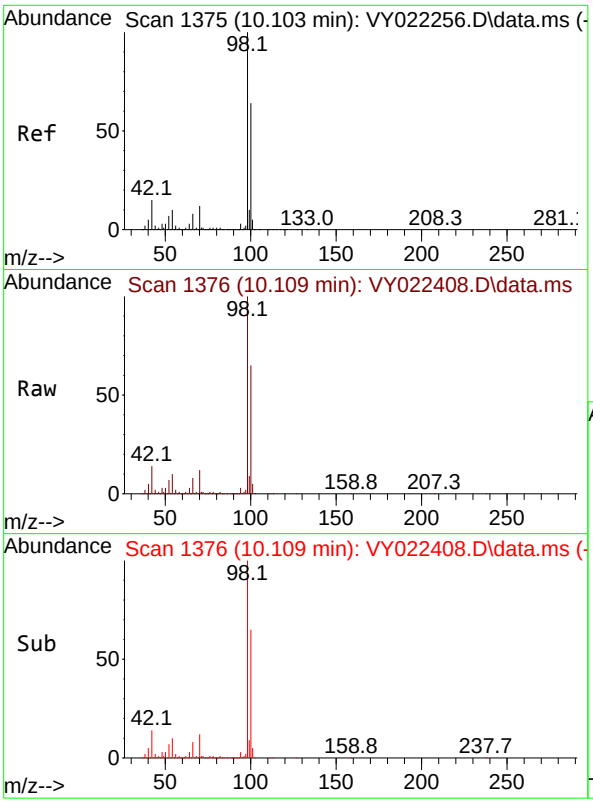


#35
Dibromofluoromethane
Concen: 56.734 ug/l
RT: 7.640 min Scan# 971
Delta R.T. 0.006 min
Lab File: VY022408.D
Acq: 23 May 2025 15:26

Tgt Ion:113 Resp: 200071

Ion	Ratio	Lower	Upper
113	100		
111	103.7	82.6	123.8
192	18.7	15.2	22.8



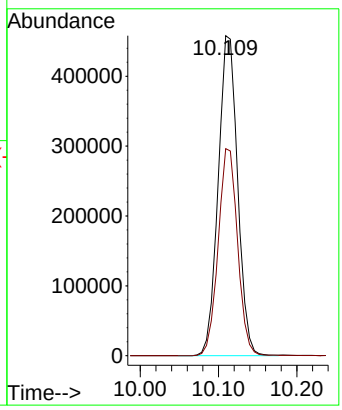


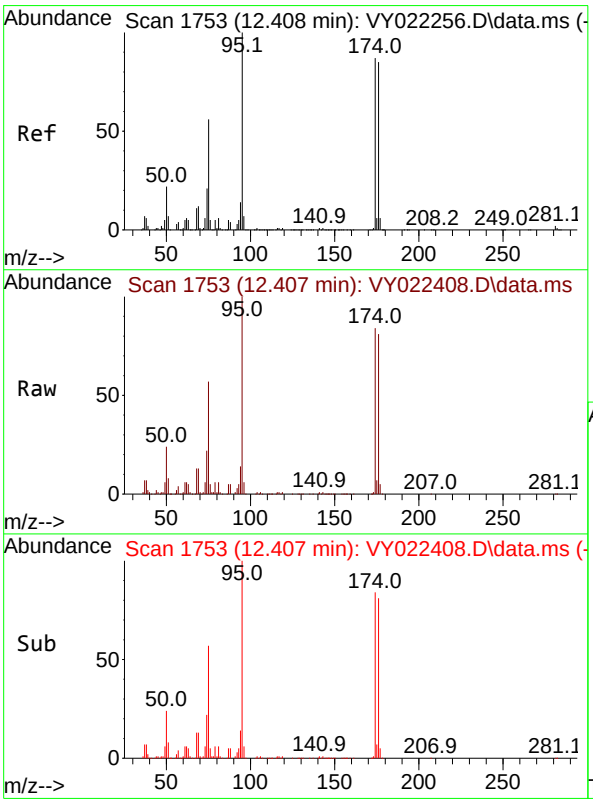
#50
Toluene-d8
Concen: 54.745 ug/l
RT: 10.109 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022408.D
Acq: 23 May 2025 15:26

Instrument :
MSVOA_Y
ClientSampleId :
VY0523SBL01

Tgt Ion: 98 Resp: 790680

Ion	Ratio	Lower	Upper
98	100		
100	64.7	51.8	77.8

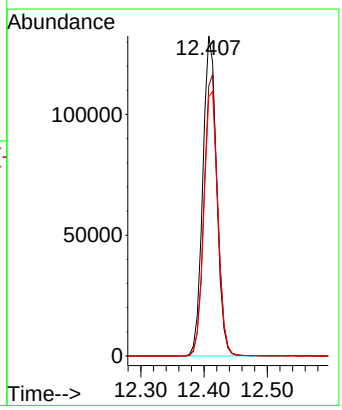


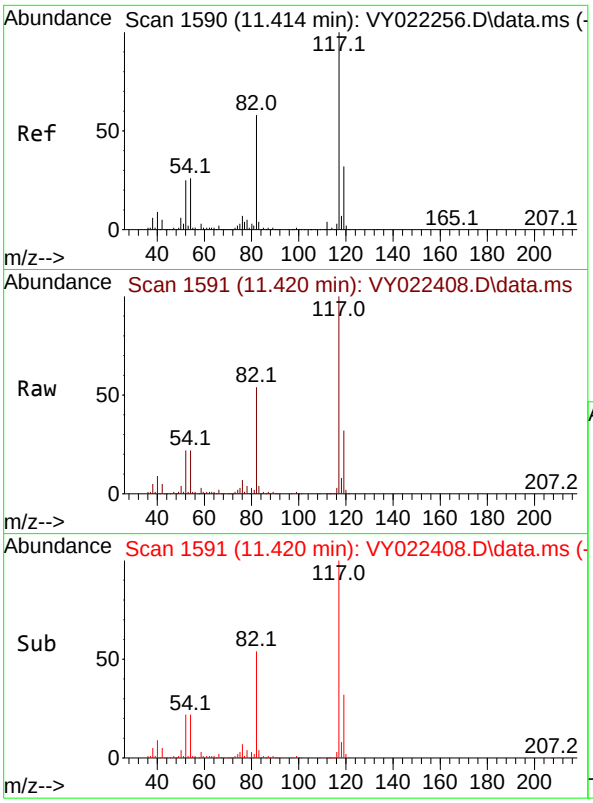


#62
4-Bromofluorobenzene
Concen: 44.010 ug/l
RT: 12.407 min Scan# 1753
Delta R.T. -0.000 min
Lab File: VY022408.D
Acq: 23 May 2025 15:26

Tgt Ion: 95 Resp: 201473

Ion	Ratio	Lower	Upper
95	100		
174	87.0	0.0	166.8
176	84.0	0.0	160.8



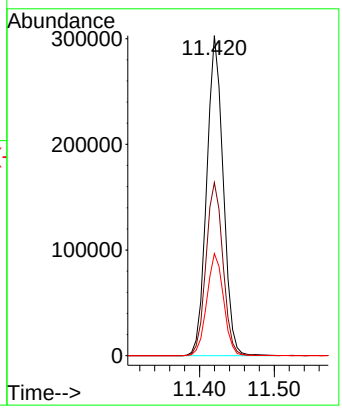


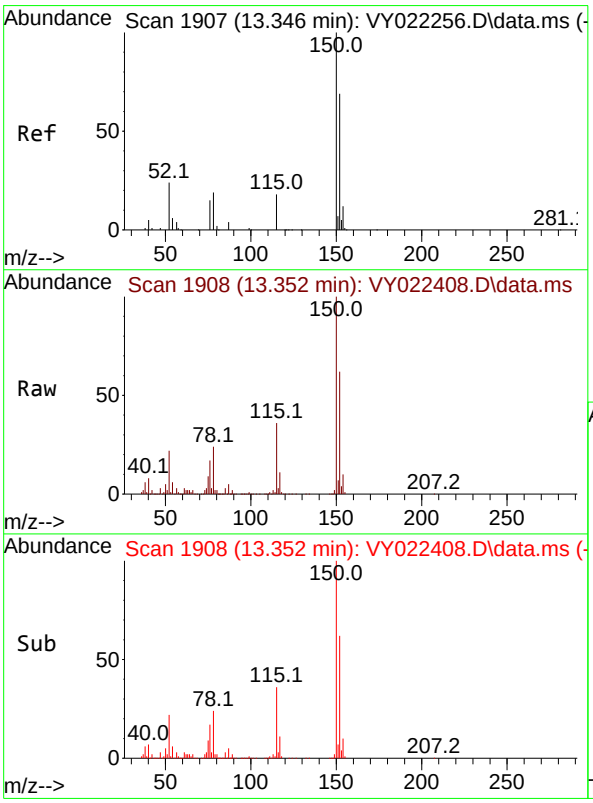
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022408.D
Acq: 23 May 2025 15:26

Instrument :
MSVOA_Y
ClientSampleId :
VY0523SBL01

Tgt Ion:117 Resp: 465211

Ion	Ratio	Lower	Upper
117	100		
82	54.1	46.6	70.0
119	31.9	25.8	38.6

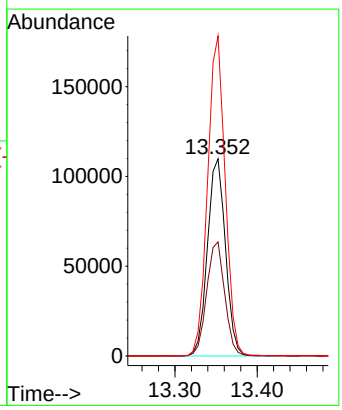




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.352 min Scan# 1908
Delta R.T. 0.006 min
Lab File: VY022408.D
Acq: 23 May 2025 15:26

Tgt Ion:152 Resp: 167300

Ion	Ratio	Lower	Upper
152	100		
115	58.0	29.4	88.2
150	158.2	0.0	353.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052325\
Data File : VY022408.D
Acq On : 23 May 2025 15:26
Operator : SY/MD
Sample : VY0523SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0523SBL01

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\82Y051525S.M
Title : SW846 8260

Signal : TIC: VY022408.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.074	51	58	61	rBV2	14359	33111	1.55%	0.346%
2	2.525	125	132	133	rBV5	13897	23431	1.10%	0.245%
3	7.640	960	971	977	rBV2	290275	689257	32.25%	7.196%
4	7.713	977	983	998	rVB	445005	992781	46.45%	10.365%
5	8.067	1033	1041	1053	rBV	268758	596109	27.89%	6.224%
6	8.622	1122	1132	1144	rBV	704664	1377475	64.45%	14.382%
7	10.109	1368	1376	1385	rBV	1235295	2137374	100.00%	22.315%
8	11.420	1583	1591	1604	rBV	967755	1515565	70.91%	15.823%
9	12.407	1746	1753	1762	rBV	735653	1125815	52.67%	11.754%
10	13.352	1901	1908	1918	rVB	702177	1087181	50.87%	11.351%

Sum of corrected areas: 9578099

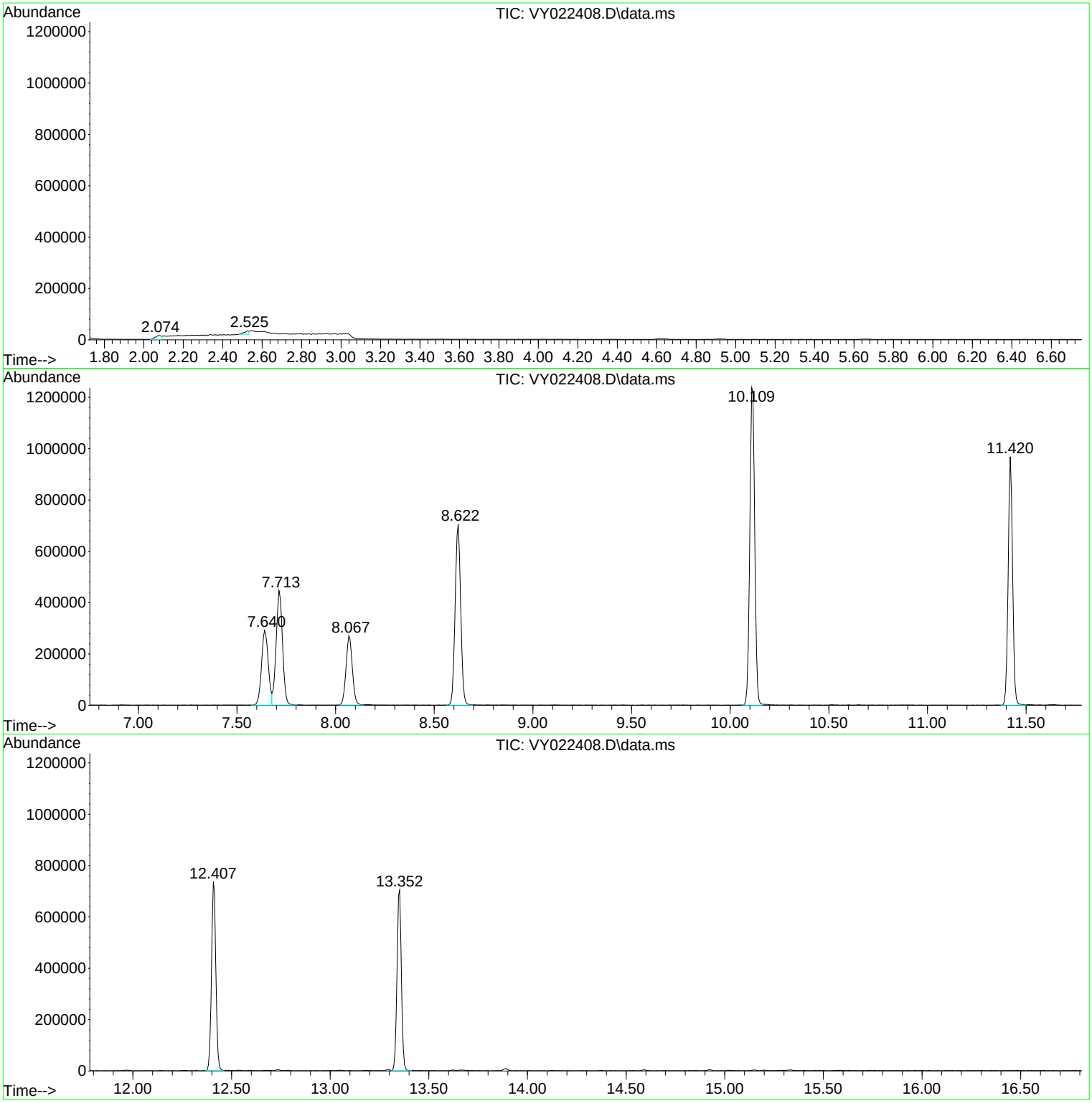
Sample Results: **VY022408.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052325\
Data File : VY022408.D
Acq On : 23 May 2025 15:26
Operator : SY/MD
Sample : VY0523SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0523SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052325\
Data File : VY022408.D
Acq On : 23 May 2025 15:26
Operator : SY/MD
Sample : VY0523SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0523SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.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\VY052325\
Data File : VY022408.D
Acq On : 23 May 2025 15:26
Operator : SY/MD
Sample : VY0523SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0523SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.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\VY052225\
Data File : VY022382.D
Acq On : 22 May 2025 09:36
Operator : SY/MD
Sample : VY0522SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 23 03:32:02 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY0522SBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 05/23/2025
Supervised By :Mahesh Dadoda 05/23/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.719	168	174604	50.000	ug/l	0.01
34) 1,4-Difluorobenzene	8.622	114	293942	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	250842	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.353	152	118480	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.073	65	92313	48.376	ug/l	0.01
Spiked Amount 50.000	Range 50 - 163		Recovery = 96.760%			
35) Dibromofluoromethane	7.646	113	88232	50.291	ug/l	0.01
Spiked Amount 50.000	Range 54 - 147		Recovery = 100.580%			
50) Toluene-d8	10.115	98	361670	50.334	ug/l	0.01
Spiked Amount 50.000	Range 58 - 134		Recovery = 100.660%			
62) 4-Bromofluorobenzene	12.414	95	108691	47.724	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 95.440%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.867	85	35700	19.595	ug/l	100
3) Chloromethane	2.074	50	89428	23.334	ug/l	96
4) Vinyl Chloride	2.208	62	106584	24.892	ug/l	98
5) Bromomethane	2.598	94	120242	34.496	ug/l	100
6) Chloroethane	2.739	64	75963	28.516	ug/l	99
7) Trichlorofluoromethane	3.056	101	101302	23.367	ug/l	96
8) Diethyl Ether	3.464	74	20744	19.939	ug/l	92
9) 1,1,2-Trichlorotrifluo...	3.824	101	39378	20.923	ug/l	99
10) Methyl Iodide	4.013	142	39404	18.090	ug/l	98
11) Tert butyl alcohol	4.891	59	13893	95.339	ug/l #	100
12) 1,1-Dichloroethene	3.793	96	38242	20.476	ug/l	94
13) Acrolein	3.665	56	11668	54.771	ug/l	97
14) Allyl chloride	4.397	41	57800	17.650	ug/l	93
15) Acrylonitrile	5.067	53	41413	96.604	ug/l	99
16) Acetone	3.885	43	37784	105.597	ug/l	96
17) Carbon Disulfide	4.116	76	117567	19.304	ug/l	99
18) Methyl Acetate	4.403	43	18733	16.605	ug/l #	89
19) Methyl tert-butyl Ether	5.128	73	100940	19.601	ug/l	98
20) Methylene Chloride	4.629	84	43819	18.952	ug/l	90
21) trans-1,2-Dichloroethene	5.122	96	40647	19.717	ug/l	95
22) Diisopropyl ether	6.031	45	124864	18.055	ug/l	98
23) Vinyl Acetate	5.970	43	370765	88.742	ug/l	96
24) 1,1-Dichloroethane	5.927	63	75035	19.421	ug/l	99
25) 2-Butanone	6.909	43	57111	95.421	ug/l	95
26) 2,2-Dichloropropane	6.890	77	69084	20.103	ug/l	100
27) cis-1,2-Dichloroethene	6.902	96	47248	19.861	ug/l	97
28) Bromochloromethane	7.256	49	30609	18.573	ug/l	96
29) Tetrahydrofuran	7.280	42	35533	92.280	ug/l	94
30) Chloroform	7.433	83	74530	20.111	ug/l	99
31) Cyclohexane	7.713	56	72006	18.653	ug/l	95
32) 1,1,1-Trichloroethane	7.628	97	66206	19.472	ug/l	99
36) 1,1-Dichloropropene	7.847	75	56933	19.702	ug/l	99
37) Ethyl Acetate	6.994	43	26743	19.234	ug/l	97
38) Carbon Tetrachloride	7.829	117	59138	19.771	ug/l	97
39) Methylcyclohexane	9.116	83	74349	19.151	ug/l	97
40) Benzene	8.091	78	167114	19.508	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052225\
Data File : VY022382.D
Acq On : 22 May 2025 09:36
Operator : SY/MD
Sample : VY0522SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 23 03:32:02 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY0522SBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 05/23/2025
Supervised By :Mahesh Dadoda 05/23/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.232	41	14142	15.333	ug/l	#	82
42) 1,2-Dichloroethane	8.171	62	44204	19.081	ug/l		98
43) Isopropyl Acetate	8.207	43	52844	17.427	ug/l		98
44) Trichloroethene	8.872	130	42833	20.109	ug/l		96
45) 1,2-Dichloropropane	9.152	63	39408	19.081	ug/l		97
46) Dibromomethane	9.237	93	22173	19.905	ug/l		97
47) Bromodichloromethane	9.433	83	55825	19.317	ug/l		98
48) Methyl methacrylate	9.231	41	24395	17.203	ug/l		94
49) 1,4-Dioxane	9.250	88	5019	398.826	ug/l		89
51) 4-Methyl-2-Pentanone	10.006	43	132300	88.920	ug/l		96
52) Toluene	10.176	92	105474	19.443	ug/l		98
53) t-1,3-Dichloropropene	10.402	75	52289	18.540	ug/l		100
54) cis-1,3-Dichloropropene	9.865	75	60767	18.806	ug/l		95
55) 1,1,2-Trichloroethane	10.579	97	27910	19.566	ug/l		99
56) Ethyl methacrylate	10.445	69	41592	18.718	ug/l		95
57) 1,3-Dichloropropane	10.725	76	50921	20.091	ug/l		99
58) 2-Chloroethyl Vinyl ether	9.719	63	80535	80.750	ug/l		97
59) 2-Hexanone	10.768	43	89261	89.478	ug/l		95
60) Dibromochloromethane	10.920	129	36931	19.947	ug/l		100
61) 1,2-Dibromoethane	11.024	107	26053	19.596	ug/l		99
64) Tetrachloroethene	10.652	164	46204	19.928	ug/l		96
65) Chlorobenzene	11.450	112	111687	19.735	ug/l		99
66) 1,1,1,2-Tetrachloroethane	11.524	131	36492	18.757	ug/l		98
67) Ethyl Benzene	11.524	91	198411	18.720	ug/l		99
68) m/p-Xylenes	11.633	106	151710	37.987	ug/l		97
69) o-Xylene	11.963	106	71140	18.827	ug/l		100
70) Styrene	11.975	104	121069	18.995	ug/l		97
71) Bromoform	12.139	173	20171	19.208	ug/l	#	99
73) Isopropylbenzene	12.261	105	189456	19.302	ug/l		100
74) N-amyl acetate	12.078	43	47777	17.019	ug/l		96
75) 1,1,2,2-Tetrachloroethane	12.511	83	29957	19.845	ug/l		98
76) 1,2,3-Trichloropropane	12.560	75	22658m	18.877	ug/l		
77) Bromobenzene	12.536	156	39583	18.881	ug/l		98
78) n-propylbenzene	12.603	91	229385	19.375	ug/l		100
79) 2-Chlorotoluene	12.682	91	120979	18.594	ug/l		98
80) 1,3,5-Trimethylbenzene	12.743	105	149426	18.859	ug/l		99
81) trans-1,4-Dichloro-2-b...	12.310	75	10636	17.950	ug/l		97
82) 4-Chlorotoluene	12.780	91	123043	18.386	ug/l		99
83) tert-Butylbenzene	12.999	119	134904	19.156	ug/l		97
84) 1,2,4-Trimethylbenzene	13.048	105	147645	18.771	ug/l		99
85) sec-Butylbenzene	13.182	105	202478	19.368	ug/l		100
86) p-Isopropyltoluene	13.298	119	166855	18.977	ug/l		99
87) 1,3-Dichlorobenzene	13.292	146	80701	18.857	ug/l		98
88) 1,4-Dichlorobenzene	13.371	146	78194	18.995	ug/l		99
89) n-Butylbenzene	13.621	91	160206	19.260	ug/l		100
90) Hexachloroethane	13.883	117	33947	19.127	ug/l		98
91) 1,2-Dichlorobenzene	13.663	146	68652	19.098	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	14.279	75	4780	19.637	ug/l		99
93) 1,2,4-Trichlorobenzene	14.925	180	40453	19.482	ug/l		99
94) Hexachlorobutadiene	15.029	225	21731	18.766	ug/l		98
95) Naphthalene	15.151	128	76320	19.368	ug/l		99
96) 1,2,3-Trichlorobenzene	15.334	180	33805	19.191	ug/l		99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052225\
Data File : VY022382.D
Acq On : 22 May 2025 09:36
Operator : SY/MD
Sample : VY0522SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 23 03:32:02 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY0522SBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 05/23/2025
Supervised By :Mahesh Dadoda 05/23/2025

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

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

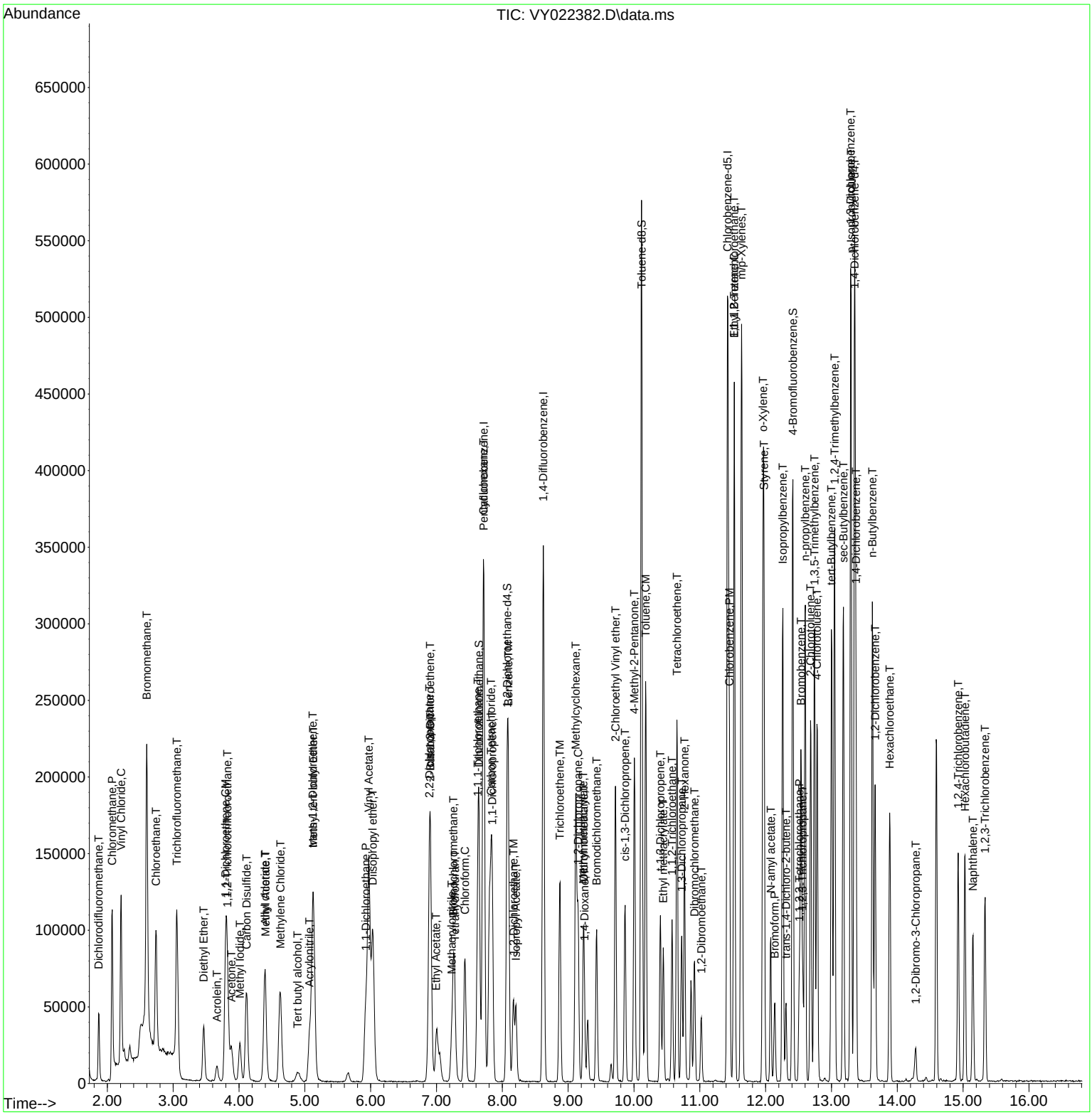
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052225\
Data File : VY022382.D
Acq On : 22 May 2025 09:36
Operator : SY/MD
Sample : VY0522SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 23 03:32:02 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY0522SBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 05/23/2025
Supervised By :Mahesh Dadoda 05/23/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052325\
Data File : VY022409.D
Acq On : 23 May 2025 16:28
Operator : SY/MD
Sample : VY0523SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 23 23:44:02 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY0523SBS01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 05/27/2025
Supervised By :Semsettin Yesilyurt 05/27/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.713	168	220484	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.621	114	365163	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	306453	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.352	152	141917	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.067	65	122214	50.718	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 101.440%			
35) Dibromofluoromethane	7.646	113	116726	53.556	ug/l	0.01
Spiked Amount 50.000	Range 54 - 147		Recovery = 107.120%			
50) Toluene-d8	10.115	98	477724	53.519	ug/l	0.01
Spiked Amount 50.000	Range 58 - 134		Recovery = 107.040%			
62) 4-Bromofluorobenzene	12.407	95	137951	48.757	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 97.520%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.867	85	47450	20.625	ug/l	98
3) Chloromethane	2.068	50	116162	24.002	ug/l	97
4) Vinyl Chloride	2.208	62	136097	25.171	ug/l	96
5) Bromomethane	2.598	94	152048	34.544	ug/l	99
6) Chloroethane	2.738	64	91246	27.126	ug/l	98
7) Trichlorofluoromethane	3.055	101	125355	22.899	ug/l	98
8) Diethyl Ether	3.458	74	26297	20.016	ug/l	93
9) 1,1,2-Trichlorotrifluo...	3.817	101	54194	22.803	ug/l	98
10) Methyl Iodide	4.006	142	50705	18.434	ug/l	99
11) Tert butyl alcohol	4.884	59	18052	98.102	ug/l #	100
12) 1,1-Dichloroethene	3.799	96	52119	22.099	ug/l	91
13) Acrolein	3.659	56	14247	52.961	ug/l	97
14) Allyl chloride	4.391	41	72531	17.539	ug/l	92
15) Acrylonitrile	5.073	53	53818	99.417	ug/l	99
16) Acetone	3.885	43	64882	143.598	ug/l	96
17) Carbon Disulfide	4.116	76	153044	19.900	ug/l	96
18) Methyl Acetate	4.403	43	22419	15.737	ug/l	93
19) Methyl tert-butyl Ether	5.128	73	130694	20.098	ug/l	95
20) Methylene Chloride	4.622	84	57155	19.576	ug/l	97
21) trans-1,2-Dichloroethene	5.122	96	52976	20.350	ug/l	96
22) Diisopropyl ether	6.024	45	157311	18.014	ug/l	95
23) Vinyl Acetate	5.969	43	490218	92.917	ug/l	98
24) 1,1-Dichloroethane	5.921	63	97335	19.950	ug/l	99
25) 2-Butanone	6.902	43	83136	110.000	ug/l	99
26) 2,2-Dichloropropane	6.896	77	89975	20.734	ug/l	99
27) cis-1,2-Dichloroethene	6.902	96	61445	20.454	ug/l	97
28) Bromochloromethane	7.250	49	41072	19.736	ug/l	96
29) Tetrahydrofuran	7.268	42	46580	95.797	ug/l	93
30) Chloroform	7.427	83	95738	20.458	ug/l	98
31) Cyclohexane	7.713	56	98151	20.135	ug/l	97
32) 1,1,1-Trichloroethane	7.628	97	89072	20.746	ug/l	99
36) 1,1-Dichloropropene	7.847	75	74413	20.729	ug/l	98
37) Ethyl Acetate	6.994	43	32944	19.073	ug/l	96
38) Carbon Tetrachloride	7.829	117	77588	20.880	ug/l	95
39) Methylcyclohexane	9.115	83	102984	21.353	ug/l	96
40) Benzene	8.091	78	215939	20.291	ug/l	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052325\
Data File : VY022409.D
Acq On : 23 May 2025 16:28
Operator : SY/MD
Sample : VY0523SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 23 23:44:02 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY0523SBS01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 05/27/2025
Supervised By :Semsettin Yesilyurt 05/27/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.231	41	20095m	17.538	ug/l		
42) 1,2-Dichloroethane	8.164	62	56548	19.649	ug/l		97
43) Isopropyl Acetate	8.207	43	70370	18.681	ug/l		98
44) Trichloroethene	8.871	130	55056	20.806	ug/l		96
45) 1,2-Dichloropropane	9.146	63	51291	19.991	ug/l		97
46) Dibromomethane	9.237	93	28589	20.659	ug/l		99
47) Bromodichloromethane	9.426	83	71724	19.978	ug/l		100
48) Methyl methacrylate	9.231	41	30712	17.434	ug/l		88
49) 1,4-Dioxane	9.237	88	6085	389.226	ug/l		93
51) 4-Methyl-2-Pentanone	10.005	43	171509	92.790	ug/l		96
52) Toluene	10.176	92	136262	20.220	ug/l		100
53) t-1,3-Dichloropropene	10.402	75	68682	19.603	ug/l		99
54) cis-1,3-Dichloropropene	9.865	75	79085	19.702	ug/l		94
55) 1,1,2-Trichloroethane	10.578	97	35739	20.168	ug/l		96
56) Ethyl methacrylate	10.444	69	54901	19.889	ug/l		92
57) 1,3-Dichloropropane	10.725	76	64791	20.578	ug/l		100
58) 2-Chloroethyl Vinyl ether	9.719	63	106348	85.834	ug/l		97
59) 2-Hexanone	10.767	43	127089	102.550	ug/l		96
60) Dibromochloromethane	10.920	129	46918	20.398	ug/l		99
61) 1,2-Dibromoethane	11.023	107	34146	20.674	ug/l		99
64) Tetrachloroethene	10.652	164	59668	21.065	ug/l		99
65) Chlorobenzene	11.450	112	142059	20.547	ug/l		99
66) 1,1,1,2-Tetrachloroethane	11.517	131	47723	20.078	ug/l		99
67) Ethyl Benzene	11.523	91	262665	20.286	ug/l		99
68) m/p-Xylenes	11.633	106	197872	40.555	ug/l		96
69) o-Xylene	11.956	106	91898	19.908	ug/l		98
70) Styrene	11.975	104	153910	19.765	ug/l		97
71) Bromoform	12.139	173	25596	19.951	ug/l	#	97
73) Isopropylbenzene	12.261	105	247301	21.034	ug/l		100
74) N-amyl acetate	12.072	43	61277	18.223	ug/l		96
75) 1,1,2,2-Tetrachloroethane	12.511	83	37759	20.883	ug/l		97
76) 1,2,3-Trichloropropane	12.560	75	29327m	20.398	ug/l		
77) Bromobenzene	12.535	156	52367	20.854	ug/l		95
78) n-propylbenzene	12.602	91	296181	20.885	ug/l		99
79) 2-Chlorotoluene	12.682	91	155703	19.979	ug/l		97
80) 1,3,5-Trimethylbenzene	12.743	105	191546	20.182	ug/l		100
81) trans-1,4-Dichloro-2-b...	12.310	75	13059	18.400	ug/l		98
82) 4-Chlorotoluene	12.785	91	157322	19.626	ug/l		97
83) tert-Butylbenzene	13.005	119	175804	20.841	ug/l		98
84) 1,2,4-Trimethylbenzene	13.047	105	188374	19.994	ug/l		98
85) sec-Butylbenzene	13.182	105	266407	21.275	ug/l		100
86) p-Isopropyltoluene	13.297	119	213699	20.291	ug/l		98
87) 1,3-Dichlorobenzene	13.291	146	103478	20.186	ug/l		98
88) 1,4-Dichlorobenzene	13.371	146	100997	20.483	ug/l		99
89) n-Butylbenzene	13.621	91	210175	21.095	ug/l		98
90) Hexachloroethane	13.883	117	43322	20.378	ug/l		98
91) 1,2-Dichlorobenzene	13.663	146	88356	20.520	ug/l		98
92) 1,2-Dibromo-3-Chloropr...	14.279	75	5917	20.294	ug/l		96
93) 1,2,4-Trichlorobenzene	14.925	180	47978	19.290	ug/l		99
94) Hexachlorobutadiene	15.029	225	25900	18.673	ug/l		94
95) Naphthalene	15.151	128	86870	18.405	ug/l		98
96) 1,2,3-Trichlorobenzene	15.334	180	40075	18.993	ug/l		98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052325\
Data File : VY022409.D
Acq On : 23 May 2025 16:28
Operator : SY/MD
Sample : VY0523SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 23 23:44:02 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY0523SBS01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 05/27/2025
Supervised By :Semsettin Yesilyurt 05/27/2025

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

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

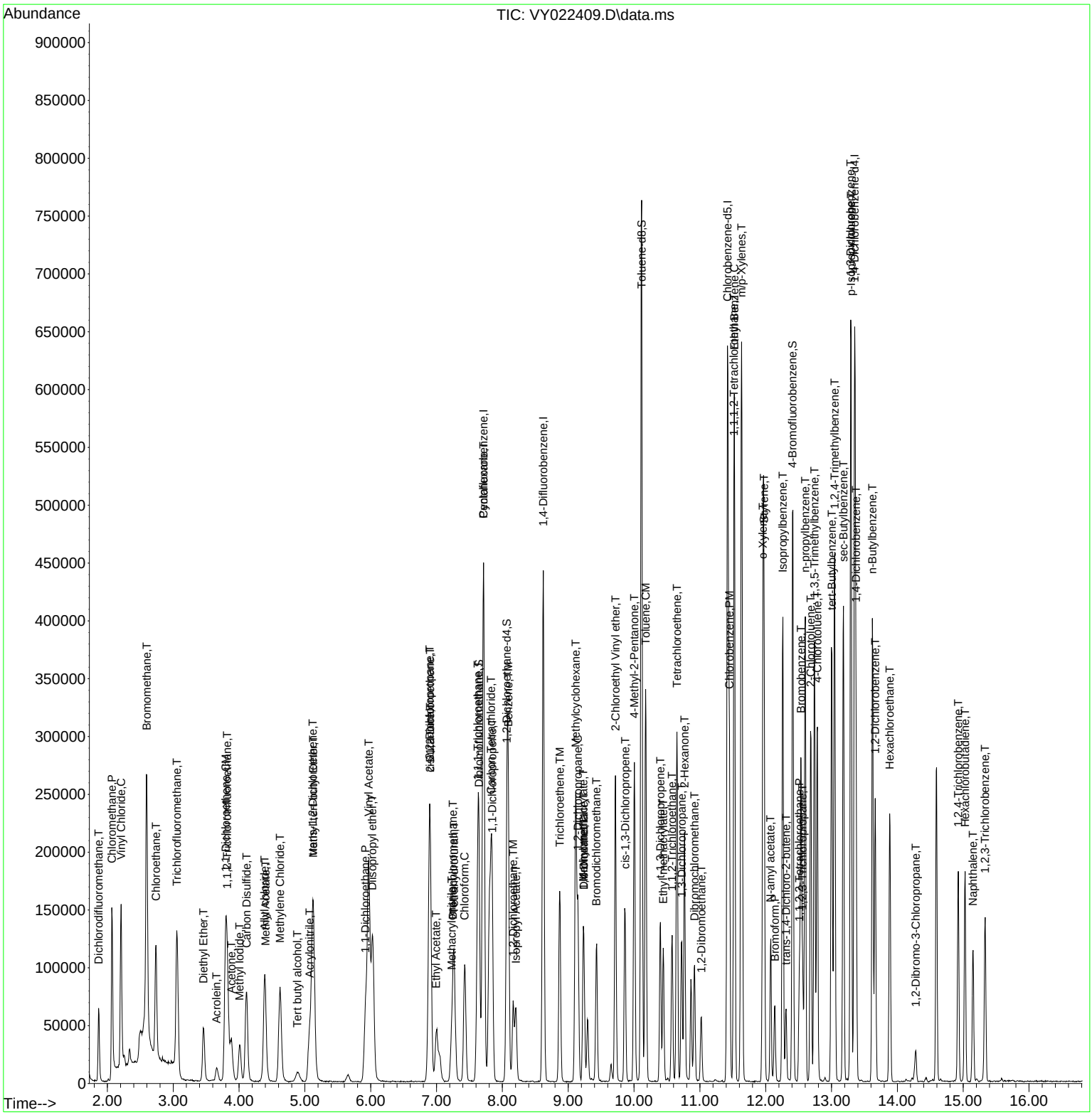
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052325\
Data File : VY022409.D
Acq On : 23 May 2025 16:28
Operator : SY/MD
Sample : VY0523SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 23 23:44:02 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY0523SBS01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 05/27/2025
Supervised By :Semsettin Yesilyurt 05/27/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052225\
Data File : VY022383.D
Acq On : 22 May 2025 09:59
Operator : SY/MD
Sample : VY0522SBSD01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 23 03:32:55 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY0522SBSD01

Manual Integrations APPROVED

Reviewed By :John Carlone 05/23/2025
Supervised By :Mahesh Dadoda 05/23/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.713	168	165702	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.621	114	283052	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	236945	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.352	152	112772	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.073	65	91305	50.418	ug/l	0.01
Spiked Amount 50.000	Range 50 - 163		Recovery = 100.840%			
35) Dibromofluoromethane	7.640	113	86124	50.978	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 101.960%			
50) Toluene-d8	10.115	98	344960	49.856	ug/l	0.01
Spiked Amount 50.000	Range 58 - 134		Recovery = 99.720%			
62) 4-Bromofluorobenzene	12.413	95	103227	47.068	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 94.140%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.866	85	34872	20.169	ug/l	98
3) Chloromethane	2.068	50	84322	23.184	ug/l	98
4) Vinyl Chloride	2.208	62	103245	25.408	ug/l	96
5) Bromomethane	2.598	94	110601	33.435	ug/l	100
6) Chloroethane	2.738	64	71548	28.302	ug/l	97
7) Trichlorofluoromethane	3.055	101	86964	21.138	ug/l	98
8) Diethyl Ether	3.464	74	20593	20.857	ug/l	95
9) 1,1,2-Trichlorotrifluo...	3.823	101	38058	21.308	ug/l	99
10) Methyl Iodide	4.006	142	40873	19.772	ug/l	99
11) Tert butyl alcohol	4.884	59	14857	107.432	ug/l #	100
12) 1,1-Dichloroethene	3.793	96	36929	20.835	ug/l	85
13) Acrolein	3.659	56	11544	57.100	ug/l	90
14) Allyl chloride	4.384	41	56854	18.294	ug/l	94
15) Acrylonitrile	5.073	53	42184	103.689	ug/l	98
16) Acetone	3.884	43	31709	93.380	ug/l	94
17) Carbon Disulfide	4.116	76	114095	19.740	ug/l	99
18) Methyl Acetate	4.396	43	20711	19.345	ug/l	95
19) Methyl tert-butyl Ether	5.128	73	102955	21.066	ug/l	95
20) Methylene Chloride	4.622	84	41710	19.009	ug/l	92
21) trans-1,2-Dichloroethene	5.122	96	39375	20.126	ug/l	92
22) Diisopropyl ether	6.030	45	125231	19.081	ug/l	94
23) Vinyl Acetate	5.969	43	381544	96.228	ug/l	95
24) 1,1-Dichloroethane	5.927	63	74250	20.250	ug/l	99
25) 2-Butanone	6.908	43	55203	97.189	ug/l	100
26) 2,2-Dichloropropane	6.896	77	65151	19.977	ug/l	100
27) cis-1,2-Dichloroethene	6.896	96	46809	20.734	ug/l	96
28) Bromochloromethane	7.256	49	31798	20.331	ug/l	99
29) Tetrahydrofuran	7.268	42	37375	102.279	ug/l	92
30) Chloroform	7.432	83	72756	20.687	ug/l	99
31) Cyclohexane	7.713	56	69034	18.844	ug/l	96
32) 1,1,1-Trichloroethane	7.628	97	66078	20.479	ug/l	99
36) 1,1-Dichloropropene	7.847	75	54364	19.537	ug/l	98
37) Ethyl Acetate	6.994	43	27223	20.333	ug/l	97
38) Carbon Tetrachloride	7.823	117	56279	19.539	ug/l	97
39) Methylcyclohexane	9.115	83	73130	19.561	ug/l	93
40) Benzene	8.091	78	166008	20.124	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052225\
Data File : VY022383.D
Acq On : 22 May 2025 09:59
Operator : SY/MD
Sample : VY0522SBSD01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 23 03:32:55 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY0522SBSD01

Manual Integrations APPROVED

Reviewed By :John Carlone 05/23/2025
Supervised By :Mahesh Dadoda 05/23/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.231	41	13388	15.074	ug/l	#	75
42) 1,2-Dichloroethane	8.164	62	45353	20.330	ug/l		100
43) Isopropyl Acetate	8.207	43	55775	19.101	ug/l		98
44) Trichloroethene	8.871	130	41551	20.257	ug/l		98
45) 1,2-Dichloropropane	9.146	63	39131	19.675	ug/l		98
46) Dibromomethane	9.237	93	22317	20.805	ug/l		97
47) Bromodichloromethane	9.432	83	55379	19.900	ug/l		96
48) Methyl methacrylate	9.231	41	24767	18.137	ug/l		93
49) 1,4-Dioxane	9.237	88	5070	418.379	ug/l		93
51) 4-Methyl-2-Pentanone	10.005	43	139840	97.604	ug/l		97
52) Toluene	10.176	92	101209	19.375	ug/l		99
53) t-1,3-Dichloropropene	10.401	75	52641	19.383	ug/l		99
54) cis-1,3-Dichloropropene	9.865	75	61287	19.697	ug/l		96
55) 1,1,2-Trichloroethane	10.578	97	28589	20.813	ug/l		97
56) Ethyl methacrylate	10.444	69	42404	19.818	ug/l		94
57) 1,3-Dichloropropane	10.725	76	50499	20.692	ug/l		98
58) 2-Chloroethyl Vinyl ether	9.719	63	83817	87.274	ug/l		97
59) 2-Hexanone	10.767	43	91893	95.660	ug/l		96
60) Dibromochloromethane	10.920	129	36293	20.356	ug/l		99
61) 1,2-Dibromoethane	11.017	107	25923	20.248	ug/l		100
64) Tetrachloroethene	10.651	164	45749	20.889	ug/l		97
65) Chlorobenzene	11.450	112	108867	20.365	ug/l		98
66) 1,1,1,2-Tetrachloroethane	11.523	131	36887	20.072	ug/l		99
67) Ethyl Benzene	11.523	91	196186	19.596	ug/l		99
68) m/p-Xylenes	11.633	106	149849	39.722	ug/l		96
69) o-Xylene	11.956	106	70807	19.838	ug/l		96
70) Styrene	11.974	104	119807	19.899	ug/l		97
71) Bromoform	12.133	173	20642	20.810	ug/l	#	97
73) Isopropylbenzene	12.261	105	184158	19.712	ug/l		100
74) N-amyl acetate	12.072	43	50559	18.922	ug/l		97
75) 1,1,2,2-Tetrachloroethane	12.511	83	30272	21.069	ug/l		99
76) 1,2,3-Trichloropropane	12.560	75	23203m	20.309	ug/l		
77) Bromobenzene	12.535	156	39924	20.008	ug/l		99
78) n-propylbenzene	12.602	91	222841	19.775	ug/l		100
79) 2-Chlorotoluene	12.682	91	120348	19.434	ug/l		98
80) 1,3,5-Trimethylbenzene	12.742	105	148179	19.648	ug/l		99
81) trans-1,4-Dichloro-2-b...	12.310	75	11117	19.711	ug/l		95
82) 4-Chlorotoluene	12.779	91	122004	19.154	ug/l		96
83) tert-Butylbenzene	12.999	119	135145	20.161	ug/l		96
84) 1,2,4-Trimethylbenzene	13.047	105	146449	19.562	ug/l		98
85) sec-Butylbenzene	13.181	105	198914	19.991	ug/l		99
86) p-Isopropyltoluene	13.297	119	162649	19.435	ug/l		98
87) 1,3-Dichlorobenzene	13.291	146	80601	19.787	ug/l		98
88) 1,4-Dichlorobenzene	13.370	146	78462	20.025	ug/l		99
89) n-Butylbenzene	13.620	91	155438	19.633	ug/l		100
90) Hexachloroethane	13.883	117	33072	19.577	ug/l		96
91) 1,2-Dichlorobenzene	13.663	146	69239	20.236	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	14.279	75	4955	21.386	ug/l		96
93) 1,2,4-Trichlorobenzene	14.925	180	39517	19.994	ug/l		97
94) Hexachlorobutadiene	15.029	225	20733	18.811	ug/l		99
95) Naphthalene	15.144	128	76999	20.530	ug/l		100
96) 1,2,3-Trichlorobenzene	15.333	180	34249	20.427	ug/l		97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052225\
Data File : VY022383.D
Acq On : 22 May 2025 09:59
Operator : SY/MD
Sample : VY0522SBSD01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 23 03:32:55 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY0522SBSD01

Manual Integrations APPROVED

Reviewed By :John Carlone 05/23/2025
Supervised By :Mahesh Dadoda 05/23/2025

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

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

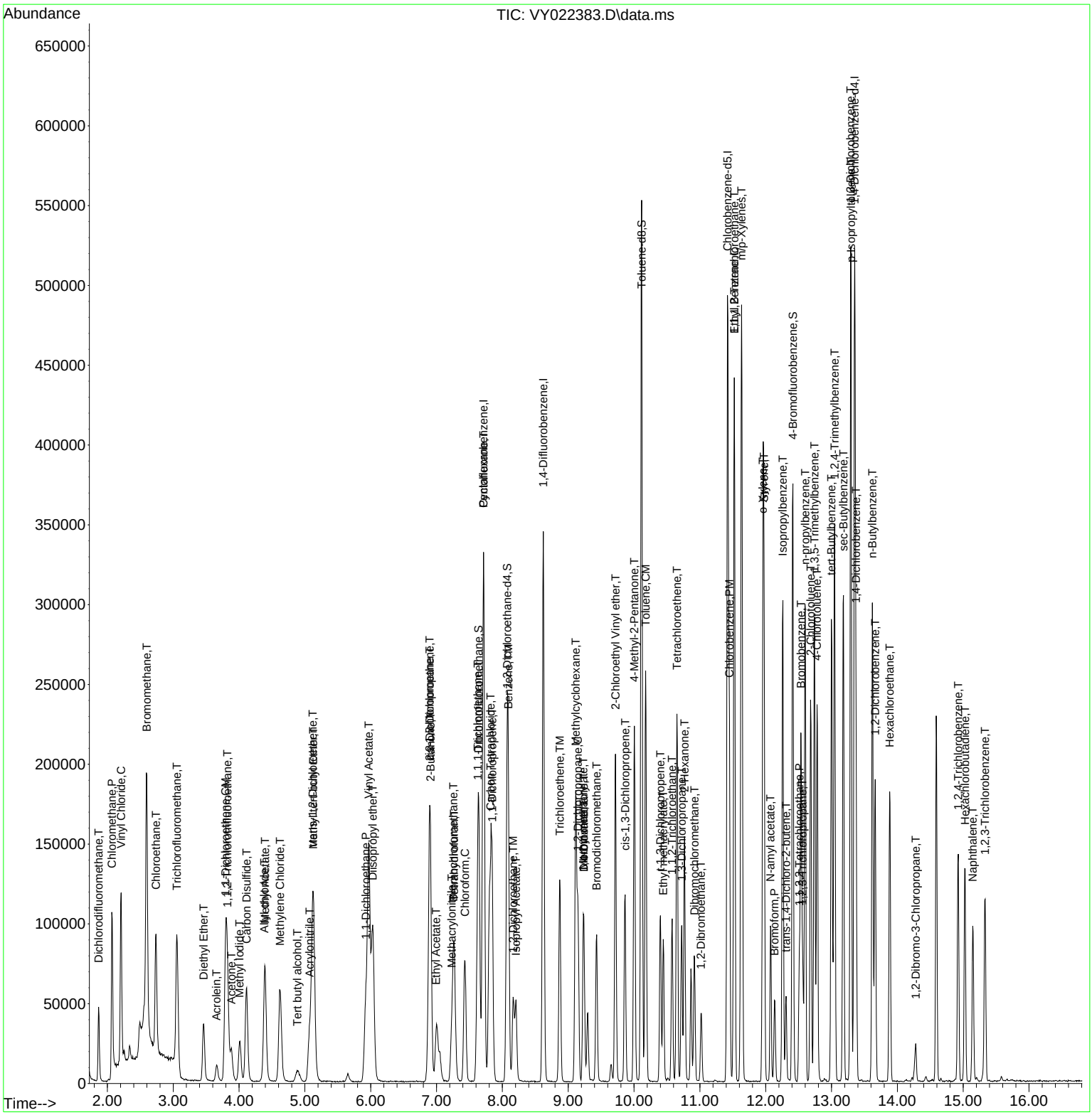
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052225\
Data File : VY022383.D
Acq On : 22 May 2025 09:59
Operator : SY/MD
Sample : VY0522SBSD01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 23 03:32:55 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY0522SBSD01

Manual Integrations APPROVED

Reviewed By :John Carlone 05/23/2025
Supervised By :Mahesh Dadoda 05/23/2025



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

Manual Integration Report

Sequence:	VY051525	Instrument	MSVOA_y

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC005	VY022253.D	1,2,3-Trichloropropane	MMDadoda	5/16/2025 11:48:35 AM	Sam	5/16/2025 11:50:51 AM	Peak Integrated by Software
VSTDICC005	VY022253.D	Methacrylonitrile	MMDadoda	5/16/2025 11:48:35 AM	Sam	5/16/2025 11:50:51 AM	Peak Integrated by Software
VSTDICC005	VY022253.D	Methyl Acetate	MMDadoda	5/16/2025 11:48:35 AM	Sam	5/16/2025 11:50:51 AM	Peak Integrated by Software
VSTDICC010	VY022254.D	1,2,3-Trichloropropane	MMDadoda	5/16/2025 11:48:33 AM	Sam	5/16/2025 11:50:49 AM	Peak Integrated by Software
VSTDICC010	VY022254.D	Methacrylonitrile	MMDadoda	5/16/2025 11:48:33 AM	Sam	5/16/2025 11:50:49 AM	Peak Integrated by Software
VSTDICC020	VY022255.D	1,2,3-Trichloropropane	MMDadoda	5/16/2025 11:48:32 AM	Sam	5/16/2025 11:50:48 AM	Peak Integrated by Software
VSTDICC020	VY022255.D	Methacrylonitrile	MMDadoda	5/16/2025 11:48:32 AM	Sam	5/16/2025 11:50:48 AM	Peak Integrated by Software
VSTDICCC050	VY022256.D	1,2,3-Trichloropropane	MMDadoda	5/16/2025 11:48:30 AM	Sam	5/16/2025 11:50:46 AM	Peak Integrated by Software
VSTDICCC050	VY022256.D	Methacrylonitrile	MMDadoda	5/16/2025 11:48:30 AM	Sam	5/16/2025 11:50:46 AM	Peak Integrated by Software
VSTDICC100	VY022257.D	1,2,3-Trichloropropane	MMDadoda	5/16/2025 11:48:28 AM	Sam	5/16/2025 11:50:45 AM	Peak Integrated by Software
VSTDICC100	VY022257.D	Methacrylonitrile	MMDadoda	5/16/2025 11:48:28 AM	Sam	5/16/2025 11:50:45 AM	Peak Integrated by Software
VSTDICC150	VY022258.D	1,2,3-Trichloropropane	MMDadoda	5/16/2025 11:48:27 AM	Sam	5/16/2025 11:50:43 AM	Peak Integrated by Software
VSTDICC150	VY022258.D	Methacrylonitrile	MMDadoda	5/16/2025 11:48:27 AM	Sam	5/16/2025 11:50:43 AM	Peak Integrated by Software

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Manual Integration Report

Sequence:	VY051525	Instrument	MSVOA_y

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICV050	VY022260.D	1,2,3-Trichloropropane	MMDadoda	5/16/2025 11:48:25 AM	Sam	5/16/2025 11:50:42 AM	Peak Integrated by Software
VSTDICV050	VY022260.D	Methacrylonitrile	MMDadoda	5/16/2025 11:48:25 AM	Sam	5/16/2025 11:50:42 AM	Peak Integrated by Software
VSTDCCC050	VY022275.D	1,2,3-Trichloropropane	MMDadoda	5/16/2025 11:48:21 AM	Sam	5/16/2025 11:50:27 AM	Peak Integrated by Software
VSTDCCC050	VY022275.D	Methacrylonitrile	MMDadoda	5/16/2025 11:48:21 AM	Sam	5/16/2025 11:50:27 AM	Peak Integrated by Software

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Manual Integration Report

Sequence:	vy052225	Instrument	MSVOA_y

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VY022380.D	1,2,3-Trichloropropane	JOHN	5/23/2025 11:04:46 AM	MMDadoda	5/23/2025 4:07:00 PM	Peak Integrated by Software
VY0522SBS01	VY022382.D	1,2,3-Trichloropropane	JOHN	5/23/2025 11:04:50 AM	MMDadoda	5/23/2025 4:07:01 PM	Peak Integrated by Software
VY0522SBSD01	VY022383.D	1,2,3-Trichloropropane	JOHN	5/23/2025 11:04:54 AM	MMDadoda	5/23/2025 4:07:02 PM	Peak Integrated by Software
VSTDCCC050	VY022405.D	1,2,3-Trichloropropane	JOHN	5/23/2025 11:04:59 AM	MMDadoda	5/23/2025 4:07:04 PM	Peak Integrated by Software
VSTDCCC050	VY022405.D	Methacrylonitrile	JOHN	5/23/2025 11:04:59 AM	MMDadoda	5/23/2025 4:07:04 PM	Peak Integrated by Software

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Manual Integration Report

Sequence:	vy052325	Instrument	MSVOA_y

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VY022407.D	1,2,3-Trichloropropane	MMdadoda	5/27/2025 4:51:06 AM	sam	5/27/2025 4:52:35 AM	Peak Integrated by Software
VSTDCCC050	VY022407.D	Methacrylonitrile	MMdadoda	5/27/2025 4:51:06 AM	sam	5/27/2025 4:52:35 AM	Peak Integrated by Software
VY0523SBS01	VY022409.D	1,2,3-Trichloropropane	MMdadoda	5/27/2025 4:51:08 AM	sam	5/27/2025 4:52:37 AM	Peak Integrated by Software
VY0523SBS01	VY022409.D	Methacrylonitrile	MMdadoda	5/27/2025 4:51:08 AM	sam	5/27/2025 4:52:37 AM	Peak Integrated by Software
VSTDCCC050	VY022419.D	1,2,3-Trichloropropane	MMdadoda	5/27/2025 4:51:20 AM	sam	5/27/2025 4:52:47 AM	Peak Integrated by Software
VSTDCCC050	VY022419.D	Methacrylonitrile	MMdadoda	5/27/2025 4:51:20 AM	sam	5/27/2025 4:52:47 AM	Peak Integrated by Software

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Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY051525

Review By	Mahesh Dadoda	Review On	5/16/2025 11:49:17 AM		
Supervise By	Semsettin Yesilyurt	Supervise On	5/16/2025 11:51:38 AM		
SubDirectory	VY051525	HP Acquire Method	MSVOA_Y	HP Processing Method	82y051525s.m

STD. NAME	STD REF.#
Tune/Reschk	VP133916
Initial Calibration Stds	VP133918,VP133919,VP133920,VP133921,VP133922,VP133923
CCC	VP133925
Internal Standard/PEM	VP131783
ICV/I.BLK	VP133924
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VY022252.D	15 May 2025 07:52	SY/MD	Ok
2	VSTDICC005	VY022253.D	15 May 2025 09:46	SY/MD	Ok,M
3	VSTDICC010	VY022254.D	15 May 2025 10:16	SY/MD	Ok,M
4	VSTDICC020	VY022255.D	15 May 2025 10:39	SY/MD	Ok,M
5	VSTDICCC050	VY022256.D	15 May 2025 11:02	SY/MD	Ok,M
6	VSTDICC100	VY022257.D	15 May 2025 11:24	SY/MD	Ok,M
7	VSTDICC150	VY022258.D	15 May 2025 11:47	SY/MD	Ok,M
8	VIBLK	VY022259.D	15 May 2025 12:34	SY/MD	Ok
9	VSTDICV050	VY022260.D	15 May 2025 13:20	SY/MD	Ok,M
10	VY0515SBL01	VY022261.D	15 May 2025 13:44	SY/MD	Ok
11	VY0515SBS01	VY022262.D	15 May 2025 14:07	SY/MD	Ok,M
12	VY0515SBSD01	VY022263.D	15 May 2025 14:29	SY/MD	Ok,M
13	Q1984-01	VY022264.D	15 May 2025 15:12	SY/MD	Ok
14	Q1984-03	VY022265.D	15 May 2025 15:35	SY/MD	Ok
15	Q1984-05	VY022266.D	15 May 2025 15:59	SY/MD	Ok
16	Q1984-07	VY022267.D	15 May 2025 16:22	SY/MD	ReRun
17	Q1984-09	VY022268.D	15 May 2025 16:46	SY/MD	Not Ok
18	Q1984-11	VY022269.D	15 May 2025 17:09	SY/MD	Not Ok
19	Q1984-13	VY022270.D	15 May 2025 17:33	SY/MD	Not Ok
20	Q1984-15	VY022271.D	15 May 2025 17:56	SY/MD	ReRun
21	Q1982-04	VY022272.D	15 May 2025 18:19	SY/MD	Ok

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Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY051525

Review By	Mahesh Dadoda	Review On	5/16/2025 11:49:17 AM				
Supervise By	Semsettin Yesilyurt	Supervise On	5/16/2025 11:51:38 AM				
SubDirectory	VY051525	HP Acquire Method	MSVOA_Y	HP Processing Method	82y051525s.m		

STD. NAME	STD REF.#
Tune/Reschk	VP133916
Initial Calibration Stds	VP133918,VP133919,VP133920,VP133921,VP133922,VP133923
CCC	VP133925
Internal Standard/PEM	VP131783
ICV/I.BLK	VP133924
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	Q1982-05	VY022273.D	15 May 2025 18:43	SY/MD	Ok
23	Q1982-06	VY022274.D	15 May 2025 19:06	SY/MD	Ok
24	VSTDCCC050	VY022275.D	15 May 2025 19:52	SY/MD	Ok,M

M : Manual Integration

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Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY052225

Review By	John Carlone	Review On	5/23/2025 11:05:57 AM				
Supervise By	Mahesh Dadoda	Supervise On	5/23/2025 4:07:06 PM				
SubDirectory	VY052225	HP Acquire Method	MSVOA_Y	HP Processing Method	82y051525s.m		

STD. NAME	STD REF.#
Tune/Reschk	VP134001
Initial Calibration Stds	
CCC	VP134002,VP134003
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	VY022379.D	22 May 2025 08:05	SY/MD	Ok
2	VSTDCCC050	VY022380.D	22 May 2025 08:35	SY/MD	Ok,M
3	VY0522SBL01	VY022381.D	22 May 2025 09:07	SY/MD	Ok
4	VY0522SBS01	VY022382.D	22 May 2025 09:36	SY/MD	Ok,M
5	VY0522SBSD01	VY022383.D	22 May 2025 09:59	SY/MD	Ok,M
6	Q2087-03RE	VY022384.D	22 May 2025 10:38	SY/MD	Confirms
7	Q2101-03	VY022385.D	22 May 2025 11:01	SY/MD	Ok
8	Q2097-11RE	VY022386.D	22 May 2025 11:25	SY/MD	Confirms
9	Q2102-01	VY022387.D	22 May 2025 11:48	SY/MD	Ok
10	Q2104-01RE	VY022388.D	22 May 2025 12:11	SY/MD	Confirms
11	Q2074-01	VY022389.D	22 May 2025 12:35	SY/MD	Ok
12	Q2074-02	VY022390.D	22 May 2025 12:58	SY/MD	Ok
13	Q2074-03	VY022391.D	22 May 2025 13:22	SY/MD	Ok
14	Q2074-04	VY022392.D	22 May 2025 13:45	SY/MD	Ok
15	Q2074-05	VY022393.D	22 May 2025 14:09	SY/MD	Ok
16	Q2074-06	VY022394.D	22 May 2025 14:32	SY/MD	Ok
17	Q2074-07	VY022395.D	22 May 2025 14:55	SY/MD	Ok
18	Q2074-08	VY022396.D	22 May 2025 15:19	SY/MD	Ok
19	Q2100-01	VY022397.D	22 May 2025 15:42	SY/MD	ReRun
20	Q2100-02	VY022398.D	22 May 2025 16:06	SY/MD	Ok
21	Q2100-03	VY022399.D	22 May 2025 16:29	SY/MD	Not Ok

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Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY052225

Review By	John Carlone	Review On	5/23/2025 11:05:57 AM				
Supervise By	Mahesh Dadoda	Supervise On	5/23/2025 4:07:06 PM				
SubDirectory	VY052225	HP Acquire Method	MSVOA_Y	HP Processing Method	82y051525s.m		

STD. NAME	STD REF.#
Tune/Reschk	VP134001
Initial Calibration Stds	
CCC	VP134002,VP134003
Internal Standard/PEM	VP133934
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	Q2100-04	VY022400.D	22 May 2025 16:53	SY/MD	Ok
23	Q2112-01	VY022401.D	22 May 2025 17:16	SY/MD	ReRun
24	Q2109-03	VY022402.D	22 May 2025 17:40	SY/MD	Ok
25	Q2075-06	VY022403.D	22 May 2025 18:03	SY/MD	Dilution
26	VIBLK	VY022404.D	22 May 2025 18:26	SY/MD	Ok
27	VSTDCCC050	VY022405.D	22 May 2025 18:49	SY/MD	Ok,M

M : Manual Integration

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Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY052325

Review By	Mahesh Dadoda	Review On	5/27/2025 4:51:38 AM		
Supervise By	Semsettin Yesilyurt	Supervise On	5/27/2025 4:53:09 AM		
SubDirectory	VY052325	HP Acquire Method	MSVOA_Y	HP Processing Method	82Y051525S.M

STD. NAME	STD REF.#
Tune/Reschk	VP134014
Initial Calibration Stds	
CCC	VP134015,VP135016
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	VY022406.D	23 May 2025 11:40	SY/MD	Ok
2	VSTDCCC050	VY022407.D	23 May 2025 14:34	SY/MD	Ok,M
3	VY0523SBL01	VY022408.D	23 May 2025 15:26	SY/MD	Ok
4	VY0523SBS01	VY022409.D	23 May 2025 16:28	SY/MD	Ok,M
5	VY0523SBSD01	VY022410.D	23 May 2025 16:50	SY/MD	Ok,M
6	Q2118-11	VY022411.D	23 May 2025 17:14	SY/MD	ReRun
7	Q2112-01RE	VY022412.D	23 May 2025 17:37	SY/MD	Confirms
8	Q2100-03	VY022413.D	23 May 2025 18:01	SY/MD	Ok
9	Q2127-11	VY022414.D	23 May 2025 18:24	SY/MD	ReRun
10	Q2127-01	VY022415.D	23 May 2025 18:47	SY/MD	Ok
11	Q2100-01	VY022416.D	23 May 2025 19:11	SY/MD	Ok
12	VIBLK	VY022417.D	23 May 2025 19:34	SY/MD	Ok
13	VY0523SBS02	VY022418.D	23 May 2025 19:57	SY/MD	Not Ok
14	VSTDCCC050	VY022419.D	23 May 2025 21:05	SY/MD	Ok,M

M : Manual Integration

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Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY051525

Review By	Mahesh Dadoda	Review On	5/16/2025 11:49:17 AM		
Supervise By	Semsettin Yesilyurt	Supervise On	5/16/2025 11:51:38 AM		
SubDirectory	VY051525	HP Acquire Method	MSVOA_Y	HP Processing Method	82y051525s.m

STD. NAME	STD REF.#
Tune/Reschk	VP133916
Initial Calibration Stds	VP133918,VP133919,VP133920,VP133921,VP133922,VP133923
CCC	VP133925
Internal Standard/PEM	VP131783
ICV/I.BLK	VP133924
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VY022252.D	15 May 2025 07:52		SY/MD	Ok
2	VSTDICC005	VSTDICC005	VY022253.D	15 May 2025 09:46		SY/MD	Ok,M
3	VSTDICC010	VSTDICC010	VY022254.D	15 May 2025 10:16		SY/MD	Ok,M
4	VSTDICC020	VSTDICC020	VY022255.D	15 May 2025 10:39		SY/MD	Ok,M
5	VSTDICCC050	VSTDICCC050	VY022256.D	15 May 2025 11:02		SY/MD	Ok,M
6	VSTDICC100	VSTDICC100	VY022257.D	15 May 2025 11:24		SY/MD	Ok,M
7	VSTDICC150	VSTDICC150	VY022258.D	15 May 2025 11:47		SY/MD	Ok,M
8	VIBLK	VIBLK	VY022259.D	15 May 2025 12:34		SY/MD	Ok
9	VSTDICV050	ICVVY051525	VY022260.D	15 May 2025 13:20		SY/MD	Ok,M
10	VY0515SBL01	VY0515SBL01	VY022261.D	15 May 2025 13:44		SY/MD	Ok
11	VY0515SBS01	VY0515SBS01	VY022262.D	15 May 2025 14:07		SY/MD	Ok,M
12	VY0515SBSD01	VY0515SBSD01	VY022263.D	15 May 2025 14:29		SY/MD	Ok,M
13	Q1984-01	OU4-PCS-TC-33-05072	VY022264.D	15 May 2025 15:12	vial-A	SY/MD	Ok
14	Q1984-03	OU4-PCS-TC-34-05072	VY022265.D	15 May 2025 15:35	vial-A	SY/MD	Ok
15	Q1984-05	OU4-PCS-TC-35-05072	VY022266.D	15 May 2025 15:59	vial-A	SY/MD	Ok
16	Q1984-07	OU4-TS-24-050725	VY022267.D	15 May 2025 16:22	vial-A Surrogate fail	SY/MD	ReRun
17	Q1984-09	OU4-TS-25-050725	VY022268.D	15 May 2025 16:46	vial-A Surrogate fail	SY/MD	Not Ok
18	Q1984-11	OU4-TS-26-050725	VY022269.D	15 May 2025 17:09	vial-A Surrogate fail	SY/MD	Not Ok

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Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY051525

Review By	Mahesh Dadoda	Review On	5/16/2025 11:49:17 AM		
Supervise By	Semsettin Yesilyurt	Supervise On	5/16/2025 11:51:38 AM		
SubDirectory	VY051525	HP Acquire Method	MSVOA_Y	HP Processing Method	82y051525s.m

STD. NAME	STD REF.#
Tune/Reschk	VP133916
Initial Calibration Stds	VP133918,VP133919,VP133920,VP133921,VP133922,VP133923
CCC	VP133925
Internal Standard/PEM	VP131783
ICV/I.BLK	VP133924
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	Q1984-13	OU4-TS-27-050725	VY022270.D	15 May 2025 17:33	vial-A Surrogate fail	SY/MD	Not Ok
20	Q1984-15	OU4-TS-28-050725	VY022271.D	15 May 2025 17:56	vial-A Surrogate fail	SY/MD	ReRun
21	Q1982-04	TP-4	VY022272.D	15 May 2025 18:19	vial-A	SY/MD	Ok
22	Q1982-05	TP-5	VY022273.D	15 May 2025 18:43	vial-A	SY/MD	Ok
23	Q1982-06	TP-6	VY022274.D	15 May 2025 19:06	vial-A	SY/MD	Ok
24	VSTDCCC050	VSTDCCC050EC	VY022275.D	15 May 2025 19:52		SY/MD	Ok,M

M : Manual Integration

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Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY052225

Review By	John Carlone	Review On	5/23/2025 11:05:57 AM		
Supervise By	Mahesh Dadoda	Supervise On	5/23/2025 4:07:06 PM		
SubDirectory	VY052225	HP Acquire Method	MSVOA_Y	HP Processing Method	82y051525s.m

STD. NAME	STD REF.#
Tune/Reschk	VP134001
Initial Calibration Stds	
CCC	VP134002,VP134003
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	VY022379.D	22 May 2025 08:05		SY/MD	Ok
2	VSTDCCC050	VSTDCCC050	VY022380.D	22 May 2025 08:35		SY/MD	Ok,M
3	VY0522SBL01	VY0522SBL01	VY022381.D	22 May 2025 09:07		SY/MD	Ok
4	VY0522SBS01	VY0522SBS01	VY022382.D	22 May 2025 09:36		SY/MD	Ok,M
5	VY0522SBSD01	VY0522SBSD01	VY022383.D	22 May 2025 09:59		SY/MD	Ok,M
6	Q2087-03RE	NB-08-05202025RE	VY022384.D	22 May 2025 10:38	vial-B ,Internal Standard Fail	SY/MD	Confirms
7	Q2101-03	TP-1-MHE-VOC	VY022385.D	22 May 2025 11:01	vial-B	SY/MD	Ok
8	Q2097-11RE	RT3419RE	VY022386.D	22 May 2025 11:25	vial-B ,Internal Standard Fail	SY/MD	Confirms
9	Q2102-01	LAW-25-0077	VY022387.D	22 May 2025 11:48	vial-B	SY/MD	Ok
10	Q2104-01RE	TR-06-052125RE	VY022388.D	22 May 2025 12:11	vial-B ,Internal Standard Fail; Surrogate Fail	SY/MD	Confirms
11	Q2074-01	TP-12	VY022389.D	22 May 2025 12:35	vial-A	SY/MD	Ok
12	Q2074-02	TP-7	VY022390.D	22 May 2025 12:58	vial-A	SY/MD	Ok
13	Q2074-03	TP-15	VY022391.D	22 May 2025 13:22	vial-A	SY/MD	Ok
14	Q2074-04	TP-20	VY022392.D	22 May 2025 13:45	vial-A	SY/MD	Ok
15	Q2074-05	TP-38	VY022393.D	22 May 2025 14:09	vial-A	SY/MD	Ok
16	Q2074-06	TP-19	VY022394.D	22 May 2025 14:32	vial-A	SY/MD	Ok
17	Q2074-07	TP-40	VY022395.D	22 May 2025 14:55	vial-A	SY/MD	Ok

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Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY052225

Review By	John Carlone	Review On	5/23/2025 11:05:57 AM		
Supervise By	Mahesh Dadoda	Supervise On	5/23/2025 4:07:06 PM		
SubDirectory	VY052225	HP Acquire Method	MSVOA_Y	HP Processing Method	82y051525s.m

STD. NAME	STD REF.#
Tune/Reschk	VP134001
Initial Calibration Stds	
CCC	VP134002,VP134003
Internal Standard/PEM	VP133934
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

18	Q2074-08	TP-18	VY022396.D	22 May 2025 15:19	vial-A	SY/MD	Ok
19	Q2100-01	TP-16	VY022397.D	22 May 2025 15:42	vial-A ,Internal Standard Fail	SY/MD	ReRun
20	Q2100-02	TP-22	VY022398.D	22 May 2025 16:06	vial-A	SY/MD	Ok
21	Q2100-03	TP-21	VY022399.D	22 May 2025 16:29	vial-A ,Not purge	SY/MD	Not Ok
22	Q2100-04	TP-45	VY022400.D	22 May 2025 16:53	vial-A	SY/MD	Ok
23	Q2112-01	EO-03-05222025	VY022401.D	22 May 2025 17:16	vial-A ,Internal Standard Fail	SY/MD	ReRun
24	Q2109-03	TP-02-MHF-VOC	VY022402.D	22 May 2025 17:40	vial-A	SY/MD	Ok
25	Q2075-06	SS-MW1-11.5	VY022403.D	22 May 2025 18:03	vial-A ,Need MeOH	SY/MD	Dilution
26	VIBLK	VIBLK	VY022404.D	22 May 2025 18:26		SY/MD	Ok
27	VSTDCCC050	VSTDCCC050EC	VY022405.D	22 May 2025 18:49		SY/MD	Ok,M

M : Manual Integration

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Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY052325

Review By	Mahesh Dadoda	Review On	5/27/2025 4:51:38 AM		
Supervise By	Semsettin Yesilyurt	Supervise On	5/27/2025 4:53:09 AM		
SubDirectory	VY052325	HP Acquire Method	MSVOA_Y	HP Processing Method	82Y051525S.M

STD. NAME	STD REF.#
Tune/Reschk	VP134014
Initial Calibration Stds	
CCC	VP134015,VP135016
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	VY022406.D	23 May 2025 11:40		SY/MD	Ok
2	VSTDCCC050	VSTDCCC050	VY022407.D	23 May 2025 14:34		SY/MD	Ok,M
3	VY0523SBL01	VY0523SBL01	VY022408.D	23 May 2025 15:26		SY/MD	Ok
4	VY0523SBS01	VY0523SBS01	VY022409.D	23 May 2025 16:28		SY/MD	Ok,M
5	VY0523SBSD01	VY0523SBSD01	VY022410.D	23 May 2025 16:50		SY/MD	Ok,M
6	Q2118-11	BP-TPB-182-GW-500-5	VY022411.D	23 May 2025 17:14	Surrogate Fail	SY/MD	ReRun
7	Q2112-01RE	EO-03-05222025RE	VY022412.D	23 May 2025 17:37	Internal Standard Fail	SY/MD	Confirms
8	Q2100-03	TP-21	VY022413.D	23 May 2025 18:01	vial-B	SY/MD	Ok
9	Q2127-11	COMP-2	VY022414.D	23 May 2025 18:24	Internal Standard Fail	SY/MD	ReRun
10	Q2127-01	COMP-1	VY022415.D	23 May 2025 18:47		SY/MD	Ok
11	Q2100-01	TP-16	VY022416.D	23 May 2025 19:11	vial-B	SY/MD	Ok
12	VIBLK	VIBLK	VY022417.D	23 May 2025 19:34		SY/MD	Ok
13	VY0523SBS02	VY0523SBS02	VY022418.D	23 May 2025 19:57	Not required	SY/MD	Not Ok
14	VSTDCCC050	VSTDCCC050EC	VY022419.D	23 May 2025 21:05		SY/MD	Ok,M

M : Manual Integration

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LAB CHRONICLE

OrderID:	Q2100	**OrderDate:**	5/20/2025 3:22:00 PM
Client:	CDM Smith	**Project:**	South River WM Replacement
Contact:	Marcie Ann Encinas	**Location:**	L41,VOA Ref. #2 Soil

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2100-01	**TP-16**	**SOIL**			**05/19/25**			**05/20/25**
			VOC-TCLVOA-10	8260D			05/23/25	
Q2100-02	**TP-22**	**SOIL**			**05/19/25**			**05/20/25**
			VOC-TCLVOA-10	8260D			05/22/25	
Q2100-03	**TP-21**	**SOIL**			**05/20/25**			**05/20/25**
			VOC-TCLVOA-10	8260D			05/23/25	
Q2100-04	**TP-45**	**SOIL**			**05/20/25**			**05/20/25**
			VOC-TCLVOA-10	8260D			05/22/25	

SAMPLE DATA

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Report of Analysis

Client:	CDM Smith	Date Collected:	05/19/25
Project:	South River WM Replacement	Date Received:	05/20/25
Client Sample ID:	TP-16	SDG No.:	Q2100
Lab Sample ID:	Q2100-01	Matrix:	SOIL
Analytical Method:	8015D GRO	% Solid:	88.4 Decanted:
Sample Wt/Vol:	5.77 Units: g	Final Vol:	5 mL
Soil Aliquot Vol:	uL	Test:	Gasoline Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
FB031806.D	1	05/21/25 14:34	FB052125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
GRO	GRO	8.00	U	8.00	44.0	ug/kg
SURROGATES						
98-08-8	Alpha,Alpha,Alpha-Trifluoroto	15.0		50 - 150	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
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:	CDM Smith	Date Collected:	05/19/25
Project:	South River WM Replacement	Date Received:	05/20/25
Client Sample ID:	TP-22	SDG No.:	Q2100
Lab Sample ID:	Q2100-02	Matrix:	SOIL
Analytical Method:	8015D GRO	% Solid:	84 Decanted:
Sample Wt/Vol:	5.43 Units: g	Final Vol:	5 mL
Soil Aliquot Vol:	uL	Test:	Gasoline Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
FB031807.D	1	05/21/25 15:01	FB052125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
GRO	GRO	14.0	J	9.00	49.0	ug/kg
SURROGATES						
98-08-8	Alpha,Alpha,Alpha-Trifluoroto	16.1		50 - 150	81%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
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LOD = Limit of Detection
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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:	CDM Smith	Date Collected:	05/20/25
Project:	South River WM Replacement	Date Received:	05/20/25
Client Sample ID:	TP-21	SDG No.:	Q2100
Lab Sample ID:	Q2100-03	Matrix:	SOIL
Analytical Method:	8015D GRO	% Solid:	78.2 Decanted:
Sample Wt/Vol:	4.28 Units: g	Final Vol:	5 mL
Soil Aliquot Vol:	uL	Test:	Gasoline Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
FB031808.D	1	05/21/25 15:29	FB052125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
GRO	GRO	12.0	U	12.0	67.0	ug/kg
SURROGATES						
98-08-8	Alpha,Alpha,Alpha-Trifluoroto	19.6		50 - 150	98%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
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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

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Report of Analysis

Client:	CDM Smith	Date Collected:	05/20/25
Project:	South River WM Replacement	Date Received:	05/20/25
Client Sample ID:	TP-45	SDG No.:	Q2100
Lab Sample ID:	Q2100-04	Matrix:	SOIL
Analytical Method:	8015D GRO	% Solid:	76.2 Decanted:
Sample Wt/Vol:	6.39 Units: g	Final Vol:	5 mL
Soil Aliquot Vol:	uL	Test:	Gasoline Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
FB031809.D	1	05/21/25 15:57	FB052125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
GRO	GRO	8.00	U	8.00	46.0	ug/kg
SURROGATES						
98-08-8	Alpha,Alpha,Alpha-Trifluoroto	14.6		50 - 150	73%	SPK: 20

Comments:

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LOQ = Limit of Quantitation
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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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SOIL GASOLINE RANGE ORGANICS SURROGATE RECOVERY

Lab Name: Chemtech Client: CDM Smith

Lab Code: CHEM Case No.: Q2100 SAS No.: Q2100 SDG No.: Q2100

EPA SAMPLE NO.	S1 AAA-TFT	S2	S3	S4	TOT OUT
VBF0521S1	98				0
BSF0521S1	73				0
BSF0521S2	90				0
TP-16	75				0
TP-22	81				0
TP-21	98				0
TP-45	73				0

	QC LIMITS
AAA-TFT	For Water : 50-150 For Soil : 50-150

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate Diluted Out

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SOIL GASOLINE RANGE ORGANICS LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICAT

Lab Name: Chemtech **Client:** CDM Smith

Lab Code: CHEM **Cas No:** Q2100 **SAS No :** Q2100 **SDG No:** Q2100

Matrix Spike - EPA Sample No : BSF0521S1 **Datafile:** FB031800.D

COMPOUND	SPIKE ADDED ug/kg	CONCENTRATION ug/kg	LCS/LCSD CONCENTRATION ug/kg	% REC	QC LIMITS
GRO	180	0	149	83	50-150

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SOIL GASOLINE RANGE ORGANICS LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATI

Lab Name: Chemtech **Client:** CDM Smith

Lab Code: CHEM **Cas No:** Q2100 **SAS No :** Q2100 **SDG No:** Q2100

Matrix Spike - EPA Sample No : BSF0521S2 **Datafile:** FB031804.D

COMPOUND	SPIKE ADDED ug/kg	CONCENTRATION ug/kg	LCS/LCSD CONCENTRATION ug/kg	% REC	QC LIMITS
GRO	180	0	161	89	50-150

LCS/LCSD % Recovery RPD : 7.7

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METHOD BLANK SUMMARY

EPA SAMPLE NO.
VBF0521S1

Lab Name: CHEMTECH Contract: CAMP02

Lab Code: CHEM Case No.: Q2100 SAS No.: Q2100 SDG NO.: Q2100

Lab File ID: FB031798.D Lab Sample ID: VBF0521S1

Date Analyzed: 05/21/25 Time Analyzed: 9:44

GC Column: RTX-502.2 ID: 0.53 (mm) Heated Purge: (Y/N) Y

Instrument ID: FB

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
BSF0521S1	BSF0521S1	FB031800.D	05/21/25
BSF0521S2	BSF0521S2	FB031804.D	05/21/25
TP-16	Q2100-01	FB031806.D	05/21/25
TP-22	Q2100-02	FB031807.D	05/21/25
TP-21	Q2100-03	FB031808.D	05/21/25
TP-45	Q2100-04	FB031809.D	05/21/25

COMMENTS:

QC SAMPLE DATA

Alliance TECHNICAL GROUP
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Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VBF0521S1	SDG No.:	Q2100
Lab Sample ID:	VBF0521S1	Matrix:	SOIL
Analytical Method:	8015D GRO	% Solid:	100 Decanted:
Sample Wt/Vol:	5 Units: g	Final Vol:	5 mL
Soil Aliquot Vol:	uL	Test:	Gasoline Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
FB031798.D	1	05/21/25 9:44	FB052125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
GRO	GRO	8.00	U	8.00	45.0	ug/kg
SURROGATES						
98-08-8	Alpha,Alpha,Alpha-Trifluoroto	19.6		50 - 150	98%	SPK: 20

Comments:

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LOQ = Limit of Quantitation
MDL = Method Detection Limit
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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:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	BSF0521S1	SDG No.:	Q2100
Lab Sample ID:	BSF0521S1	Matrix:	SOIL
Analytical Method:	8015D GRO	% Solid:	100 Decanted:
Sample Wt/Vol:	5 Units: g	Final Vol:	5 mL
Soil Aliquot Vol:	uL	Test:	Gasoline Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
FB031800.D	1	05/21/25 10:40	FB052125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
GRO	GRO	149		8.00	45.0	ug/kg
SURROGATES						
98-08-8	Alpha,Alpha,Alpha-Trifluoroto	14.6		50 - 150	73%	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:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	BSF0521S2	SDG No.:	Q2100
Lab Sample ID:	BSF0521S2	Matrix:	SOIL
Analytical Method:	8015D GRO	% Solid:	100 Decanted:
Sample Wt/Vol:	5 Units: g	Final Vol:	5 mL
Soil Aliquot Vol:	uL	Test:	Gasoline Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
FB031804.D	1	05/21/25 12:39	FB052125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
GRO	GRO	161		8.00	45.0	ug/kg
SURROGATES						
98-08-8	Alpha,Alpha,Alpha-Trifluoroto	17.9		50 - 150	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
* = 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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GASOLINE RANGE ORGANICS INITIAL CALIBRATION SUMMARY

Lab Name: Chemtech Contract: CAMP02

ProjectID: South River WM Replacement

Lab Code: CHEM Case No.: Q2100 SAS No.: Q2100 SDG No.: Q2100

Calibration Sequence : FB051925		Test : Gasoline Range Organics	
Concentration (PPB)	**Area Count**	**Reference Factor**	**File ID**
45	1581426	35143	FB031773.D
90	3666341	40737	FB031774.D
180	7299621	40553	FB031775.D
450	17934599	39855	FB031776.D
900	34196369	37996	FB031777.D
AVG RF : 38857	**% RSD : 6.028**		**AVG RT : 8.795**

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GASOLINE RANGE ORGANICS CONTINUING CALIBRATION SUMMARY

20 PPB GRO STD

Lab Name: Chemtech Contract: CAMP02

ProjectID: South River WM Replacement

Lab Code: CHEM Case No.: Q2100 SAS No.: Q2100 SDG No.: Q2100

DataFile: FB031797.D Analyst Name: YP/AJ Analyst Date: 05-21-2025

Conc. (PPB)	Area Count	RF	Average RF	%D
180	6713502	37297	38857	4.015

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GASOLINE RANGE ORGANICS CONTINUING CALIBRATION SUMMARY

20 PPB GRO STD

Lab Name: Chemtech Contract: CAMP02

ProjectID: South River WM Replacement

Lab Code: CHEM Case No.: Q2100 SAS No.: Q2100 SDG No.: Q2100

DataFile: FB031805.D Analyst Name: YP/AJ Analyst Date: 05-21-2025

Conc. (PPB)	Area Count	RF	Average RF	%D
180	6687638	37154	38857	4.383

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GASOLINE RANGE ORGANICS CONTINUING CALIBRATION SUMMARY

20 PPB GRO STD

Lab Name: Chemtech Contract: CAMP02

ProjectID: South River WM Replacement

Lab Code: CHEM Case No.: Q2100 SAS No.: Q2100 SDG No.: Q2100

DataFile: FB031811.D Analyst Name: YP/AJ Analyst Date: 05-21-2025

Conc. (PPB)	Area Count	RF	Average RF	%D
180	7030843	39060	38857	0.522

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Analytical Sequence

Client: CDM Smith **SDG No.:** Q2100

Project: South River WM Replacement **Instrument ID:** FID_B

GC Column: RTX-502.2 **ID:** 0.53 **(mm)**

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SUROGATE RT FROM INITIAL CALIBRATION **8.795**

EPA SAMPLE NO.	LAB SAMPLE ID	DATE AND TIME ANALYZED	DATAFILE	RT	#
20 PPB GRO STD	20 PPB GRO STD	21 May 2025 9:04	FB031797.D	8.793	
VBF0521S1	VBF0521S1	21 May 2025 9:44	FB031798.D	8.795	
BSF0521S1	BSF0521S1	21 May 2025 10:40	FB031800.D	8.796	
BSF0521S2	BSF0521S2	21 May 2025 12:39	FB031804.D	8.795	
20 PPB GRO STD	20 PPB GRO STD	21 May 2025 13:23	FB031805.D	8.794	
TP-16	Q2100-01	21 May 2025 14:34	FB031806.D	8.794	
TP-22	Q2100-02	21 May 2025 15:01	FB031807.D	8.796	
TP-21	Q2100-03	21 May 2025 15:29	FB031808.D	8.794	
TP-45	Q2100-04	21 May 2025 15:57	FB031809.D	8.796	
20 PPB GRO STD	20 PPB GRO STD	21 May 2025 16:52	FB031811.D	8.796	

 # Column used to flag RT values with an * values outside of QC limits

QC Limits	Lower Limit	Upper Limits
(± 0.10 minutes)	8.695	8.895

SAMPLE RAW DATA

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB052125\
Data File : FB031806.D
Signal(s) : FID2B.CH
Acq On : 21 May 2025 14:34
Operator : YP/AJ
Sample : Q2100-01
Misc : 5.77G/5.00 ML DI WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
FID_B
ClientSampleId :
TP-16

Integration File: Calibration.e
Quant Time: May 22 01:49:18 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_B\Method\FB051925.M
Quant Title :
QLast Update : Mon May 19 10:47:15 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 5 g/ml
Signal Phase : RTX-502.2
Signal Info : 60mx0.53mmx3.00um

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
5) s AAA-TFT	8.793	324621	15.012 ng/ml
Target Compounds			

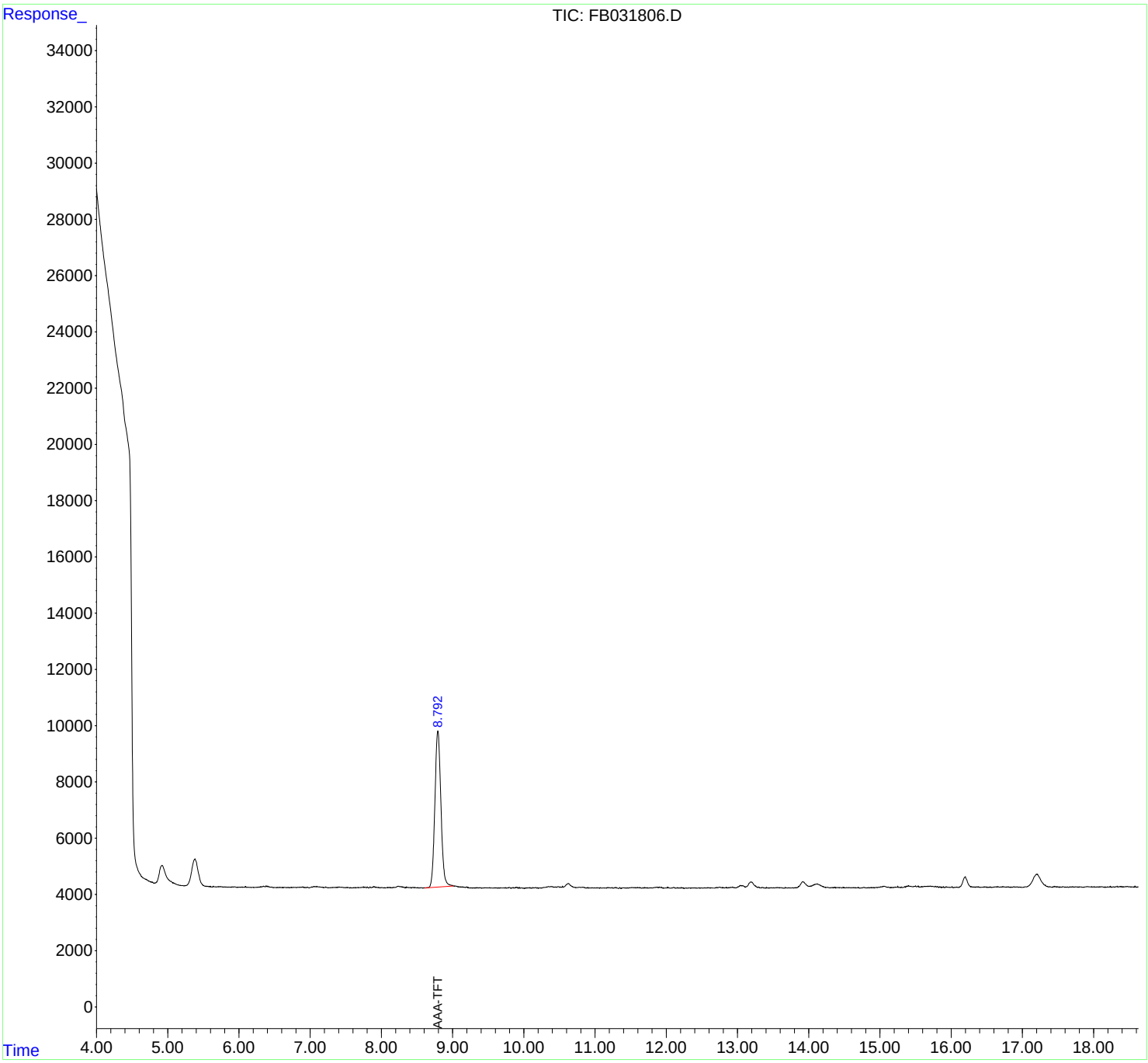
(f)=RT Delta > 1/2 Window (m)=manual int.

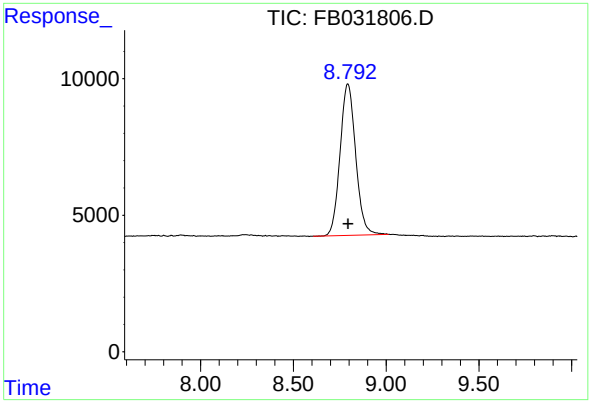
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB052125\
Data File : FB031806.D
Signal(s) : FID2B.CH
Acq On : 21 May 2025 14:34
Operator : YP/AJ
Sample : Q2100-01
Misc : 5.77G/5.00 ML DI WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
FID_B
ClientSampleId :
TP-16

Integration File: Calibration.e
Quant Time: May 22 01:49:18 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_B\Method\FB051925.M
Quant Title :
QLast Update : Mon May 19 10:47:15 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 5 g/ml
Signal Phase : RTX-502.2
Signal Info : 60mx0.53mmx3.00um





#5 AAA-TFT

R.T.:	8.793 min
Delta R.T.:	-0.002 min
Response:	324621
Conc:	15.01 ng/ml

Instrument :
FID_B
ClientSampleId :
TP-16

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB052125\
Data File : FB031806.D
Signal(s) : FID2B.CH
Acq On : 21 May 2025 14:34
Sample : Q2100-01
Misc : 5.77G/5.00 ML DI WATER
ALS Vial : 1 Sample Multiplier: 1

Integration File: SAMPLE.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_B\Method\FB051925.M
Title :

Signal : FID2B.CH

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	5.205	5.188	5.232	PV	7	67	0.02%	0.012%
2	5.563	5.555	5.591	VV	22	298	0.09%	0.054%
3	5.599	5.591	5.618	VV	27	189	0.06%	0.034%
4	5.626	5.618	5.633	VV	9	40	0.01%	0.007%
5	5.643	5.633	5.663	PV	25	248	0.07%	0.045%
6	5.670	5.663	5.701	VV	12	175	0.05%	0.031%
7	5.707	5.701	5.715	VV	20	137	0.04%	0.025%
8	5.732	5.715	5.737	VV	18	207	0.06%	0.037%
9	5.748	5.737	5.773	VV	21	314	0.09%	0.056%
10	5.781	5.773	5.792	VV	10	80	0.02%	0.014%
11	5.800	5.792	5.822	VV	12	133	0.04%	0.024%
12	5.836	5.822	5.845	VV	11	99	0.03%	0.018%
13	5.854	5.845	5.867	PV	10	91	0.03%	0.016%
14	5.875	5.867	5.886	VV	11	70	0.02%	0.013%
15	5.897	5.886	5.903	VV	11	65	0.02%	0.012%
16	5.914	5.903	5.928	VV	18	188	0.06%	0.034%
17	5.943	5.928	5.999	VV	23	401	0.12%	0.072%
18	6.007	5.999	6.018	VV	9	69	0.02%	0.012%
19	6.026	6.018	6.035	VV	9	81	0.02%	0.014%
20	6.045	6.035	6.074	VV	20	241	0.07%	0.043%
21	6.096	6.074	6.109	VV	35	340	0.10%	0.061%
22	6.124	6.109	6.154	VV	13	204	0.06%	0.037%
23	6.168	6.154	6.177	VV	12	85	0.02%	0.015%
24	6.199	6.177	6.213	PV	14	150	0.04%	0.027%
25	6.277	6.213	6.287	PV	23	491	0.14%	0.088%
26	6.301	6.287	6.312	VV	33	342	0.10%	0.062%
27	6.349	6.312	6.366	VV	51	1144	0.34%	0.206%
28	6.381	6.366	6.417	VV	55	1287	0.38%	0.232%
29	6.424	6.417	6.537	VB	34	716	0.21%	0.129%
30	6.647	6.591	6.661	BV	12	161	0.05%	0.029%
31	6.691	6.661	6.711	PV	12	182	0.05%	0.033%
32	6.729	6.711	6.762	PV	13	280	0.08%	0.050%
33	6.775	6.762	6.806	VV	19	328	0.10%	0.059%
34	6.897	6.806	6.926	VV	35	1326	0.39%	0.239%
35	6.962	6.926	6.985	VV	19	497	0.15%	0.089%
36	7.051	6.985	7.080	PV	46	1714	0.50%	0.308%

Page 1

rteres

37	7.098	7.080	7.200	VV	53	2258	0.66%	0.406%
38	7.220	7.200	7.264	VV	27	602	0.18%	0.108%
39	7.404	7.264	7.435	VV	32	1969	0.58%	0.354%
40	7.443	7.435	7.496	VV	28	696	0.20%	0.125%
41	7.531	7.496	7.592	VV	20	667	0.20%	0.120%
42	7.744	7.592	7.791	VV	33	2048	0.60%	0.369%
43	7.803	7.791	7.824	VV	40	377	0.11%	0.068%
44	7.843	7.824	7.858	VV	38	416	0.12%	0.075%
45	7.895	7.858	7.978	VV	55	2067	0.61%	0.372%
46	7.997	7.978	8.053	VV	20	621	0.18%	0.112%
47	8.116	8.053	8.142	VV	31	911	0.27%	0.164%
48	8.242	8.142	8.335	VV	68	4410	1.29%	0.793%
49	8.350	8.335	8.388	VV	38	761	0.22%	0.137%
50	8.405	8.388	8.421	VV	26	369	0.11%	0.066%
51	8.443	8.421	8.464	VV	27	535	0.16%	0.096%
52	8.509	8.464	8.531	VV	17	648	0.19%	0.117%
53	8.560	8.531	8.586	VV	20	425	0.12%	0.076%
54	8.794	8.586	9.180	VV	5594	341283	100.00%	61.401%
55	9.196	9.180	9.317	VV	42	1702	0.50%	0.306%
56	9.357	9.317	9.411	VV	28	998	0.29%	0.180%
57	9.462	9.411	9.496	VV	23	874	0.26%	0.157%
58	9.519	9.496	9.564	VV	29	684	0.20%	0.123%
59	9.604	9.564	9.664	VV	26	934	0.27%	0.168%
60	9.676	9.664	9.699	VV	22	376	0.11%	0.068%
61	9.713	9.699	9.731	VV	23	348	0.10%	0.063%
62	9.744	9.731	9.761	VV	28	316	0.09%	0.057%
63	9.797	9.761	9.834	VV	37	943	0.28%	0.170%
64	9.847	9.834	9.867	VV	27	447	0.13%	0.081%
65	9.896	9.867	9.952	VV	40	1328	0.39%	0.239%
66	9.971	9.952	10.008	VV	24	487	0.14%	0.088%
67	10.087	10.008	10.115	PV	33	1195	0.35%	0.215%
68	10.130	10.115	10.146	VV	35	411	0.12%	0.074%
69	10.168	10.146	10.225	VV	33	1035	0.30%	0.186%
70	10.346	10.225	10.425	VV	74	5710	1.67%	1.027%
71	10.447	10.425	10.466	VV	56	1238	0.36%	0.223%
72	10.483	10.466	10.527	VV	69	2077	0.61%	0.374%
73	10.545	10.527	10.558	VV	80	1040	0.30%	0.187%
74	10.625	10.558	10.751	VV	172	10708	3.14%	1.927%
75	10.831	10.751	10.877	VV	49	2952	0.86%	0.531%
76	10.898	10.877	10.981	VV	35	1476	0.43%	0.266%
77	11.029	10.981	11.065	VV	33	1181	0.35%	0.212%
78	11.077	11.065	11.097	VV	36	430	0.13%	0.077%
79	11.125	11.097	11.162	VV	27	793	0.23%	0.143%
80	11.197	11.162	11.226	VV	38	1090	0.32%	0.196%
81	11.238	11.226	11.256	VV	39	492	0.14%	0.089%
82	11.293	11.256	11.331	VV	42	1104	0.32%	0.199%
83	11.348	11.331	11.364	VV	39	344	0.10%	0.062%
84	11.396	11.364	11.469	PV	32	1366	0.40%	0.246%
85	11.518	11.469	11.579	VV	36	2046	0.60%	0.368%
86	11.598	11.579	11.658	VV	43	1391	0.41%	0.250%
87	11.698	11.658	11.749	VV	38	1286	0.38%	0.231%
88	11.788	11.749	11.804	VV	29	774	0.23%	0.139%
89	11.869	11.804	11.886	VV	52	1789	0.52%	0.322%

rteres

90	11.906	11.886	11.979	VV	54	1786	0.52%	0.321%
91	12.026	11.979	12.062	VV	43	1189	0.35%	0.214%
92	12.102	12.062	12.138	VV	43	1083	0.32%	0.195%
93	12.157	12.138	12.196	VV	36	715	0.21%	0.129%
94	12.211	12.196	12.251	VV	40	665	0.19%	0.120%
95	12.276	12.251	12.303	VV	21	420	0.12%	0.076%
96	12.325	12.303	12.343	VV	21	426	0.12%	0.077%
97	12.411	12.343	12.438	VV	24	1029	0.30%	0.185%
98	12.496	12.438	12.512	VV	22	743	0.22%	0.134%
99	12.586	12.512	12.620	VV	31	1353	0.40%	0.243%
100	12.633	12.620	12.676	VV	22	619	0.18%	0.111%
101	12.705	12.676	12.722	VV	33	719	0.21%	0.129%
102	12.751	12.722	12.816	VV	47	1806	0.53%	0.325%
103	12.848	12.816	12.862	VV	32	724	0.21%	0.130%
104	12.932	12.862	12.971	VV	51	2052	0.60%	0.369%
105	13.043	12.971	13.110	VV	106	5775	1.69%	1.039%
106	13.188	13.110	13.286	VV	233	13593	3.98%	2.446%
107	13.299	13.286	13.327	VV	46	792	0.23%	0.143%
108	13.353	13.327	13.399	VV	34	921	0.27%	0.166%
109	13.408	13.399	13.443	VV	28	496	0.15%	0.089%
110	13.478	13.443	13.493	VV	27	574	0.17%	0.103%
111	13.508	13.493	13.527	VV	26	398	0.12%	0.072%
112	13.554	13.527	13.600	VV	33	1038	0.30%	0.187%
113	13.611	13.600	13.653	VV	26	568	0.17%	0.102%
114	13.675	13.653	13.705	VV	26	541	0.16%	0.097%
115	13.722	13.705	13.755	VV	20	489	0.14%	0.088%
116	13.774	13.755	13.790	VV	20	357	0.10%	0.064%
117	13.917	13.790	14.026	VV	237	14995	4.39%	2.698%
118	14.121	14.026	14.298	VV	154	14038	4.11%	2.526%
119	14.366	14.298	14.515	VV	37	3032	0.89%	0.545%
120	14.532	14.515	14.599	VV	26	1029	0.30%	0.185%
121	14.634	14.599	14.666	VV	29	762	0.22%	0.137%
122	14.698	14.666	14.720	VV	31	562	0.16%	0.101%
123	14.769	14.720	14.817	PV	30	985	0.29%	0.177%
124	14.838	14.817	14.854	VV	20	376	0.11%	0.068%
125	14.897	14.854	14.922	VV	22	764	0.22%	0.137%
126	14.950	14.922	14.965	VV	34	604	0.18%	0.109%
127	15.062	14.965	15.178	VV	65	4839	1.42%	0.871%
128	15.226	15.178	15.242	VV	37	1089	0.32%	0.196%
129	15.400	15.242	15.465	VV	82	5798	1.70%	1.043%
130	15.499	15.465	15.515	VV	69	1647	0.48%	0.296%
131	15.535	15.515	15.562	VV	61	1360	0.40%	0.245%
132	15.680	15.562	15.765	VV	63	6320	1.85%	1.137%
133	15.780	15.765	15.832	VV	62	1573	0.46%	0.283%
134	15.843	15.832	15.875	VV	45	673	0.20%	0.121%
135	15.892	15.875	15.910	VV	47	493	0.14%	0.089%
136	15.934	15.910	15.999	VV	34	1138	0.33%	0.205%
137	16.013	15.999	16.035	VV	37	417	0.12%	0.075%
138	16.081	16.035	16.107	VV	29	744	0.22%	0.134%
139	16.197	16.107	16.341	VV	394	18954	5.55%	3.410%
140	16.379	16.341	16.412	VV	40	1060	0.31%	0.191%
141	16.477	16.412	16.511	VV	32	1142	0.33%	0.205%

					rteres			
142	16.544	16.511	16.571	VV	26	537	0.16%	0.097%
143	16.658	16.571	16.697	VV	33	1636	0.48%	0.294%
144	16.733	16.697	16.773	VV	33	1058	0.31%	0.190%
145	16.803	16.773	16.861	VV	26	958	0.28%	0.172%
146	16.883	16.861	16.994	VV	30	1324	0.39%	0.238%
147	17.042	16.994	17.059	PV	13	180	0.05%	0.032%
			Sum of corrected areas:			555827		

FB051925.M Thu May 22 02:51:28 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB052125\
Data File : FB031807.D
Signal(s) : FID2B.CH
Acq On : 21 May 2025 15:01
Operator : YP/AJ
Sample : Q2100-02
Misc : 5.43G/5.00 ML DI WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
FID_B
ClientSampleId :
TP-22

Integration File: Calibration.e
Quant Time: May 22 01:49:28 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_B\Method\FB051925.M
Quant Title :
QLast Update : Mon May 19 10:47:15 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 5 g/ml
Signal Phase : RTX-502.2
Signal Info : 60mx0.53mmx3.00um

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
5) s AAA-TFT	8.796	349302	16.154 ng/ml
Target Compounds			

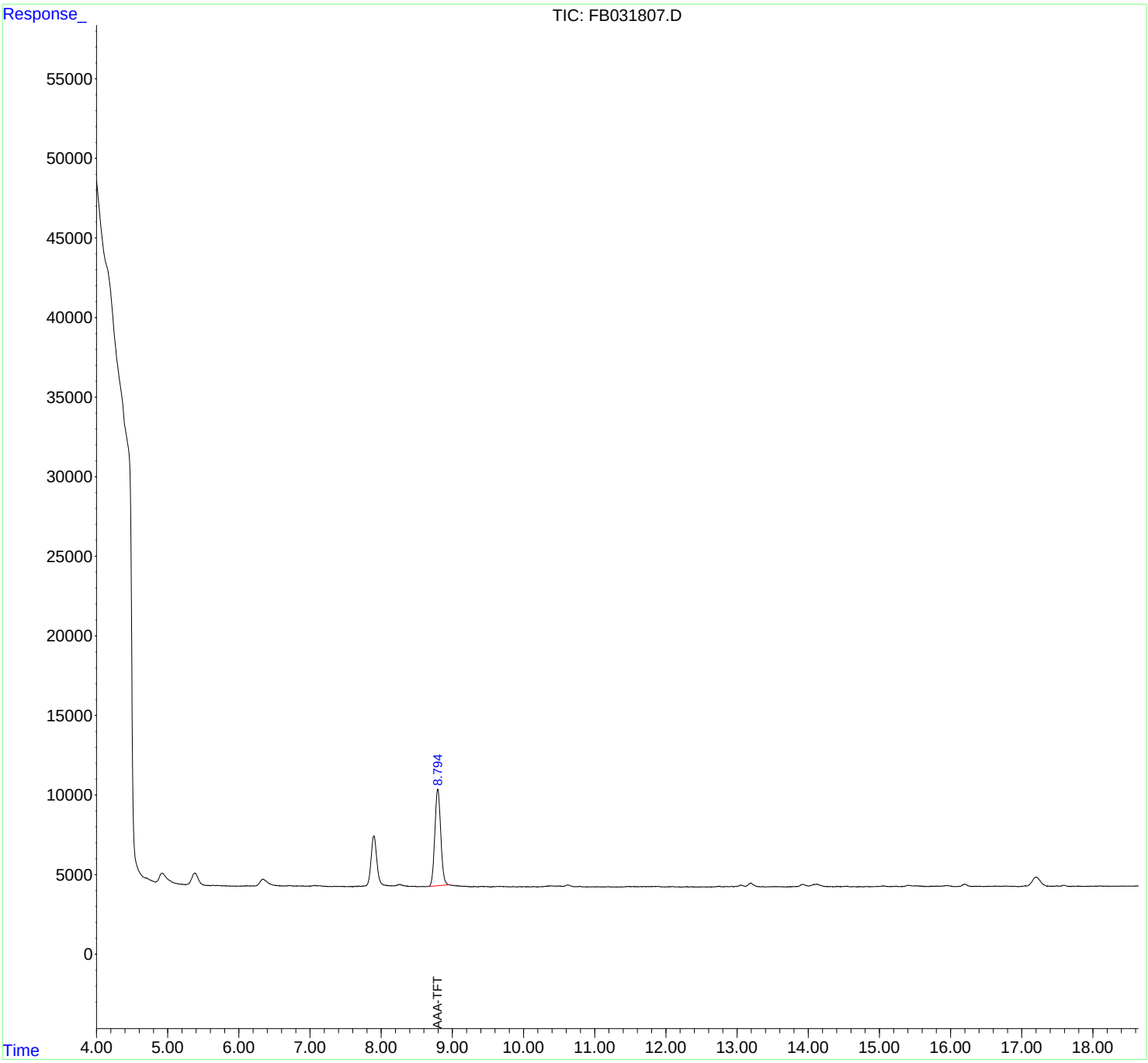
(f)=RT Delta > 1/2 Window (m)=manual int.

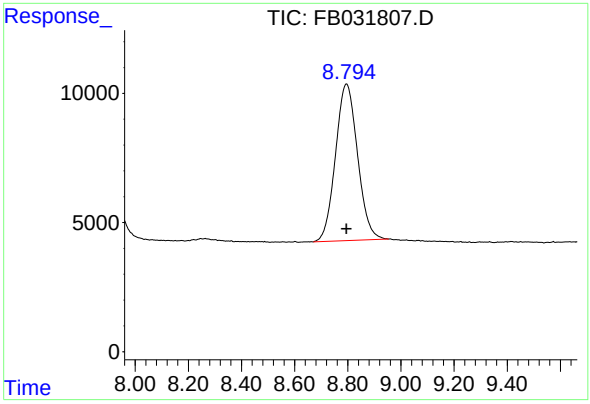
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB052125\
Data File : FB031807.D
Signal(s) : FID2B.CH
Acq On : 21 May 2025 15:01
Operator : YP/AJ
Sample : Q2100-02
Misc : 5.43G/5.00 ML DI WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
FID_B
ClientSampleId :
TP-22

Integration File: Calibration.e
Quant Time: May 22 01:49:28 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_B\Method\FB051925.M
Quant Title :
QLast Update : Mon May 19 10:47:15 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 5 g/ml
Signal Phase : RTX-502.2
Signal Info : 60mx0.53mmx3.00um





#5 AAA-TFT

R.T.:	8.796 min
Delta R.T.:	0.000 min
Response:	349302
Conc:	16.15 ng/ml

Instrument :
FID_B
ClientSampleId :
TP-22

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB052125\
Data File : FB031807.D
Signal(s) : FID2B.CH
Acq On : 21 May 2025 15:01
Sample : Q2100-02
Misc : 5.43G/5.00 ML DI WATER
ALS Vial : 2 Sample Multiplier: 1

Integration File: SAMPLE.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_B\Method\FB051925.M
Title :

Signal : FID2B.CH

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	5.243	5.239	5.258	VV	15	74	0.02%	0.009%
2	5.550	5.541	5.583	VV	16	170	0.05%	0.020%
3	5.594	5.583	5.613	PV	16	119	0.03%	0.014%
4	5.632	5.613	5.667	VV	35	610	0.17%	0.073%
5	5.695	5.667	5.711	VV	31	610	0.17%	0.073%
6	5.721	5.711	5.771	VV	27	763	0.21%	0.092%
7	5.799	5.771	5.823	VV	30	652	0.18%	0.078%
8	5.832	5.823	5.870	VV	33	535	0.15%	0.064%
9	5.894	5.870	5.921	PV	30	461	0.13%	0.055%
10	5.934	5.921	5.971	VV	23	445	0.12%	0.053%
11	6.020	5.971	6.040	PV	24	611	0.17%	0.073%
12	6.129	6.040	6.195	VV	43	2901	0.79%	0.348%
13	6.204	6.195	6.221	VV	40	516	0.14%	0.062%
14	6.343	6.221	6.522	VV	463	38616	10.51%	4.628%
15	6.527	6.522	6.587	VV	79	2045	0.56%	0.245%
16	6.606	6.587	6.617	VV	55	786	0.21%	0.094%
17	6.627	6.617	6.653	VV	40	792	0.22%	0.095%
18	6.711	6.653	6.719	VV	64	2071	0.56%	0.248%
19	6.728	6.719	6.753	VV	67	1057	0.29%	0.127%
20	6.764	6.753	6.772	VV	45	454	0.12%	0.054%
21	6.792	6.772	6.806	VV	47	794	0.22%	0.095%
22	6.811	6.806	6.830	VV	52	550	0.15%	0.066%
23	6.847	6.830	6.950	VV	49	2707	0.74%	0.324%
24	6.969	6.950	6.980	VV	42	622	0.17%	0.075%
25	6.992	6.980	7.005	VV	42	474	0.13%	0.057%
26	7.049	7.005	7.056	VV	68	1582	0.43%	0.190%
27	7.070	7.056	7.082	VV	84	1090	0.30%	0.131%
28	7.091	7.082	7.107	VV	67	923	0.25%	0.111%
29	7.129	7.107	7.169	VV	64	1991	0.54%	0.239%
30	7.179	7.169	7.191	VV	47	486	0.13%	0.058%
31	7.202	7.191	7.212	VV	30	343	0.09%	0.041%
32	7.221	7.212	7.246	VV	32	477	0.13%	0.057%
33	7.253	7.246	7.264	VV	19	146	0.04%	0.018%
34	7.284	7.264	7.309	VV	25	359	0.10%	0.043%
35	7.347	7.309	7.364	VV	31	646	0.18%	0.077%
36	7.375	7.364	7.391	VV	31	325	0.09%	0.039%

rteres

37	7.404	7.391	7.421	VV	26	329	0.09%	0.039%
38	7.433	7.421	7.452	VV	29	363	0.10%	0.043%
39	7.460	7.452	7.471	VV	23	192	0.05%	0.023%
40	7.480	7.471	7.491	VV	33	245	0.07%	0.029%
41	7.551	7.491	7.613	PV	27	938	0.26%	0.112%
42	7.636	7.613	7.653	VV	40	535	0.15%	0.064%
43	7.668	7.653	7.677	VV	46	404	0.11%	0.048%
44	7.691	7.677	7.710	VV	62	741	0.20%	0.089%
45	7.731	7.710	7.744	VV	58	784	0.21%	0.094%
46	7.898	7.744	8.116	VV	3207	189226	51.51%	22.680%
47	8.125	8.116	8.145	VV	82	1306	0.36%	0.157%
48	8.176	8.145	8.189	VV	77	1824	0.50%	0.219%
49	8.221	8.189	8.231	VV	114	2200	0.60%	0.264%
50	8.247	8.231	8.255	VV	155	1946	0.53%	0.233%
51	8.264	8.255	8.342	VV	161	5615	1.53%	0.673%
52	8.350	8.342	8.356	VV	64	487	0.13%	0.058%
53	8.362	8.356	8.373	VV	71	550	0.15%	0.066%
54	8.388	8.373	8.400	VV	45	642	0.17%	0.077%
55	8.408	8.400	8.448	VV	40	1023	0.28%	0.123%
56	8.457	8.448	8.520	VV	40	1267	0.34%	0.152%
57	8.528	8.520	8.545	VV	29	335	0.09%	0.040%
58	8.557	8.545	8.570	VV	32	370	0.10%	0.044%
59	8.581	8.570	8.595	VV	29	368	0.10%	0.044%
60	8.603	8.595	8.616	VV	46	365	0.10%	0.044%
61	8.647	8.616	8.670	VV	32	894	0.24%	0.107%
62	8.796	8.670	9.001	VV	6147	367392	100.00%	44.035%
63	9.021	9.001	9.054	VV	110	2931	0.80%	0.351%
64	9.064	9.054	9.116	VV	86	2700	0.73%	0.324%
65	9.127	9.116	9.141	VV	66	874	0.24%	0.105%
66	9.149	9.141	9.183	VV	61	1270	0.35%	0.152%
67	9.193	9.183	9.206	VV	53	606	0.16%	0.073%
68	9.225	9.206	9.250	VV	48	792	0.22%	0.095%
69	9.258	9.250	9.267	VV	38	260	0.07%	0.031%
70	9.272	9.267	9.280	VV	18	110	0.03%	0.013%
71	9.335	9.280	9.352	VV	45	1136	0.31%	0.136%
72	9.416	9.352	9.444	VV	53	1865	0.51%	0.224%
73	9.451	9.444	9.500	VV	47	1132	0.31%	0.136%
74	9.511	9.500	9.539	VV	33	518	0.14%	0.062%
75	9.553	9.539	9.560	PV	24	203	0.06%	0.024%
76	9.574	9.560	9.583	VV	52	397	0.11%	0.048%
77	9.593	9.583	9.604	VV	30	331	0.09%	0.040%
78	9.636	9.604	9.644	VV	44	879	0.24%	0.105%
79	9.652	9.644	9.659	VV	40	321	0.09%	0.038%
80	9.667	9.659	9.684	VV	44	598	0.16%	0.072%
81	9.691	9.684	9.727	VV	43	935	0.25%	0.112%
82	9.746	9.727	9.774	VV	34	771	0.21%	0.092%
83	9.784	9.774	9.793	VV	32	273	0.07%	0.033%
84	9.858	9.793	9.876	VV	41	1174	0.32%	0.141%
85	9.887	9.876	9.917	VV	26	399	0.11%	0.048%
86	9.936	9.917	9.981	VV	34	915	0.25%	0.110%
87	10.006	9.981	10.031	VV	34	733	0.20%	0.088%
88	10.041	10.031	10.068	VV	32	493	0.13%	0.059%
89	10.077	10.068	10.093	VV	27	289	0.08%	0.035%

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90	10.106	10.093	10.116	VV	27	283	0.08%	0.034%
91	10.136	10.116	10.153	VV	45	659	0.18%	0.079%
92	10.165	10.153	10.185	VV	33	374	0.10%	0.045%
93	10.202	10.185	10.214	VV	35	329	0.09%	0.039%
94	10.236	10.214	10.249	VV	30	443	0.12%	0.053%
95	10.322	10.249	10.330	VV	63	1967	0.54%	0.236%
96	10.343	10.330	10.363	VV	87	1338	0.36%	0.160%
97	10.385	10.363	10.427	VV	81	2813	0.77%	0.337%
98	10.445	10.427	10.471	VV	71	1714	0.47%	0.205%
99	10.505	10.471	10.562	VV	72	3205	0.87%	0.384%
100	10.611	10.562	10.747	VV	137	8129	2.21%	0.974%
101	10.753	10.747	10.761	VV	35	265	0.07%	0.032%
102	10.796	10.761	10.822	VV	59	1252	0.34%	0.150%
103	10.834	10.822	10.841	VV	26	242	0.07%	0.029%
104	10.849	10.841	10.864	VV	26	259	0.07%	0.031%
105	10.881	10.864	10.900	VV	21	322	0.09%	0.039%
106	10.925	10.900	10.942	VV	26	425	0.12%	0.051%
107	10.980	10.942	11.019	VV	26	817	0.22%	0.098%
108	11.037	11.019	11.045	VV	32	339	0.09%	0.041%
109	11.053	11.045	11.066	VV	29	270	0.07%	0.032%
110	11.076	11.066	11.087	VV	19	196	0.05%	0.023%
111	11.098	11.087	11.111	VV	23	247	0.07%	0.030%
112	11.126	11.111	11.145	VV	26	317	0.09%	0.038%
113	11.182	11.145	11.228	VV	33	949	0.26%	0.114%
114	11.237	11.228	11.251	VV	17	163	0.04%	0.020%
115	11.263	11.251	11.289	VV	19	274	0.07%	0.033%
116	11.313	11.289	11.332	VV	23	298	0.08%	0.036%
117	11.343	11.332	11.350	VV	12	101	0.03%	0.012%
118	11.363	11.350	11.371	VV	16	162	0.04%	0.019%
119	11.395	11.371	11.403	VV	18	268	0.07%	0.032%
120	11.418	11.403	11.433	VV	30	410	0.11%	0.049%
121	11.487	11.433	11.524	VV	50	1804	0.49%	0.216%
122	11.536	11.524	11.545	VV	36	424	0.12%	0.051%
123	11.554	11.545	11.567	VV	43	401	0.11%	0.048%
124	11.594	11.567	11.615	VV	40	821	0.22%	0.098%
125	11.629	11.615	11.637	VV	33	333	0.09%	0.040%
126	11.651	11.637	11.665	VV	43	524	0.14%	0.063%
127	11.674	11.665	11.682	VV	36	313	0.09%	0.038%
128	11.697	11.682	11.708	VV	40	534	0.15%	0.064%
129	11.748	11.708	11.769	VV	41	1145	0.31%	0.137%
130	11.796	11.769	11.809	VV	41	773	0.21%	0.093%
131	11.828	11.809	11.838	VV	45	624	0.17%	0.075%
132	11.853	11.838	11.873	VV	45	778	0.21%	0.093%
133	11.885	11.873	11.951	VV	48	1462	0.40%	0.175%
134	11.966	11.951	11.988	VV	19	292	0.08%	0.035%
135	12.009	11.988	12.038	VV	24	526	0.14%	0.063%
136	12.099	12.038	12.115	VV	43	1292	0.35%	0.155%
137	12.124	12.115	12.178	VV	24	666	0.18%	0.080%
138	12.188	12.178	12.212	VV	24	223	0.06%	0.027%
139	12.250	12.212	12.272	PV	23	444	0.12%	0.053%
140	12.294	12.272	12.319	VV	35	609	0.17%	0.073%
141	12.361	12.319	12.383	VV	31	642	0.17%	0.077%

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142	12.391	12.383	12.417	VV	16	263	0.07%	0.032%
143	12.425	12.417	12.456	VV	15	238	0.06%	0.029%
144	12.473	12.456	12.488	VV	22	222	0.06%	0.027%
145	12.507	12.488	12.518	VV	20	229	0.06%	0.027%
146	12.537	12.518	12.546	VV	23	279	0.08%	0.033%
147	12.556	12.546	12.581	VV	24	235	0.06%	0.028%
148	12.590	12.581	12.647	PV	17	474	0.13%	0.057%
149	12.678	12.647	12.688	VV	24	400	0.11%	0.048%
150	12.728	12.688	12.737	VV	50	934	0.25%	0.112%
151	12.757	12.737	12.777	VV	62	995	0.27%	0.119%
152	12.788	12.777	12.806	VV	32	384	0.10%	0.046%
153	12.861	12.806	12.885	VV	39	1297	0.35%	0.155%
154	12.924	12.885	12.950	VV	53	1267	0.34%	0.152%
155	12.987	12.950	12.997	VV	43	952	0.26%	0.114%
156	13.059	12.997	13.124	VV	130	6142	1.67%	0.736%
157	13.199	13.124	13.288	VV	249	13439	3.66%	1.611%
158	13.294	13.288	13.341	VV	40	783	0.21%	0.094%
159	13.352	13.341	13.366	VV	31	325	0.09%	0.039%
160	13.380	13.366	13.406	VV	31	410	0.11%	0.049%
161	13.437	13.406	13.464	VV	21	565	0.15%	0.068%
162	13.475	13.464	13.492	VV	28	336	0.09%	0.040%
163	13.521	13.492	13.562	VV	36	1007	0.27%	0.121%
164	13.572	13.562	13.622	VV	35	792	0.22%	0.095%
165	13.634	13.622	13.644	VV	31	279	0.08%	0.033%
166	13.666	13.644	13.675	VV	21	223	0.06%	0.027%
167	13.683	13.675	13.700	VV	16	118	0.03%	0.014%
168	13.730	13.700	13.744	VV	23	407	0.11%	0.049%
169	13.753	13.744	13.772	VV	32	309	0.08%	0.037%
170	13.791	13.772	13.801	VV	36	459	0.12%	0.055%
171	13.920	13.801	14.010	VV	169	10684	2.91%	1.281%
172	14.090	14.010	14.117	VV	174	7964	2.17%	0.955%
173	14.126	14.117	14.233	VV	183	7031	1.91%	0.843%
174	14.243	14.233	14.283	VV	41	871	0.24%	0.104%
175	14.299	14.283	14.307	VV	27	317	0.09%	0.038%
176	14.326	14.307	14.359	VV	30	597	0.16%	0.072%
177	14.378	14.359	14.388	VV	24	307	0.08%	0.037%
178	14.418	14.388	14.429	VV	40	720	0.20%	0.086%
179	14.443	14.429	14.453	VV	35	359	0.10%	0.043%
180	14.463	14.453	14.485	VV	26	374	0.10%	0.045%
181	14.530	14.485	14.593	VV	44	1892	0.52%	0.227%
182	14.606	14.593	14.615	VV	15	149	0.04%	0.018%
183	14.628	14.615	14.639	VV	23	237	0.06%	0.028%
184	14.650	14.639	14.666	VV	25	261	0.07%	0.031%
185	14.673	14.666	14.692	VV	14	139	0.04%	0.017%
186	14.708	14.692	14.732	VV	21	361	0.10%	0.043%
187	14.746	14.732	14.763	VV	21	249	0.07%	0.030%
188	14.786	14.763	14.794	PV	21	192	0.05%	0.023%
189	14.812	14.794	14.836	VV	29	556	0.15%	0.067%
190	14.845	14.836	14.858	VV	32	256	0.07%	0.031%
191	14.868	14.858	14.878	VV	16	160	0.04%	0.019%
192	14.896	14.878	14.905	VV	22	271	0.07%	0.033%
193	14.961	14.905	14.991	VV	43	1210	0.33%	0.145%
194	15.052	14.991	15.149	VV	73	3679	1.00%	0.441%

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195	15.159	15.149	15.172	VV	45	349	0.10%	0.042%
196	15.201	15.172	15.216	VV	42	739	0.20%	0.089%
197	15.235	15.216	15.262	VV	47	955	0.26%	0.114%
198	15.282	15.262	15.297	VV	28	426	0.12%	0.051%
199	15.320	15.297	15.328	VV	36	442	0.12%	0.053%
200	15.337	15.328	15.346	VV	41	294	0.08%	0.035%
201	15.403	15.346	15.474	VV	98	5540	1.51%	0.664%
202	15.500	15.474	15.529	VV	69	2032	0.55%	0.244%
203	15.532	15.529	15.563	VV	71	1200	0.33%	0.144%
204	15.573	15.563	15.586	VV	73	711	0.19%	0.085%
205	15.596	15.586	15.606	VV	52	497	0.14%	0.060%
206	15.617	15.606	15.637	VV	44	604	0.16%	0.072%
207	15.659	15.637	15.672	VV	42	557	0.15%	0.067%
208	15.724	15.672	15.737	VV	62	1128	0.31%	0.135%
209	15.769	15.737	15.785	VV	53	1165	0.32%	0.140%
210	15.800	15.785	15.836	VV	58	1214	0.33%	0.146%
211	15.846	15.836	15.867	VV	49	719	0.20%	0.086%
212	15.879	15.867	15.892	VV	51	676	0.18%	0.081%
213	15.950	15.892	15.963	VV	84	2976	0.81%	0.357%
214	15.968	15.963	15.985	VV	77	876	0.24%	0.105%
215	15.993	15.985	16.060	VV	63	1514	0.41%	0.181%
216	16.079	16.060	16.091	VV	26	356	0.10%	0.043%
217	16.125	16.091	16.137	VV	41	724	0.20%	0.087%
218	16.203	16.137	16.285	VV	171	8538	2.32%	1.023%
219	16.311	16.285	16.319	VV	37	572	0.16%	0.069%
220	16.362	16.319	16.369	VV	38	918	0.25%	0.110%
221	16.378	16.369	16.394	VV	36	486	0.13%	0.058%
222	16.403	16.394	16.412	VV	46	390	0.11%	0.047%
223	16.419	16.412	16.445	VV	35	493	0.13%	0.059%
224	16.453	16.445	16.460	VV	20	166	0.05%	0.020%
225	16.480	16.460	16.501	VV	29	524	0.14%	0.063%
226	16.530	16.501	16.553	VV	45	856	0.23%	0.103%
227	16.569	16.553	16.595	VV	36	761	0.21%	0.091%
228	16.609	16.595	16.622	VV	50	591	0.16%	0.071%
229	16.636	16.622	16.653	VV	48	715	0.19%	0.086%
230	16.674	16.653	16.702	VV	37	937	0.26%	0.112%
231	16.715	16.702	16.723	VV	32	343	0.09%	0.041%
232	16.775	16.723	16.792	VV	47	1626	0.44%	0.195%
233	16.804	16.792	16.832	VV	50	879	0.24%	0.105%
234	16.851	16.832	16.864	VV	34	600	0.16%	0.072%
235	16.875	16.864	16.885	VV	41	373	0.10%	0.045%
236	16.908	16.885	16.956	VV	37	895	0.24%	0.107%
237	16.968	16.956	16.979	PV	14	117	0.03%	0.014%
238	17.058	16.979	17.076	VV	21	733	0.20%	0.088%
			Sum of corrected areas:			834312		

FB051925.M Thu May 22 02:51:54 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB052125\
Data File : FB031808.D
Signal(s) : FID2B.CH
Acq On : 21 May 2025 15:29
Operator : YP/AJ
Sample : Q2100-03
Misc : 4.28G/5.00 ML DI WATER
ALS Vial : 3 Sample Multiplier: 1

Instrument :
FID_B
ClientSampleId :
TP-21

Integration File: Calibration.e
Quant Time: May 22 01:49:37 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_B\Method\FB051925.M
Quant Title :
QLast Update : Mon May 19 10:47:15 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 5 g/ml
Signal Phase : RTX-502.2
Signal Info : 60mx0.53mmx3.00um

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
5) s AAA-TFT	8.794	423443	19.582 ng/ml
Target Compounds			

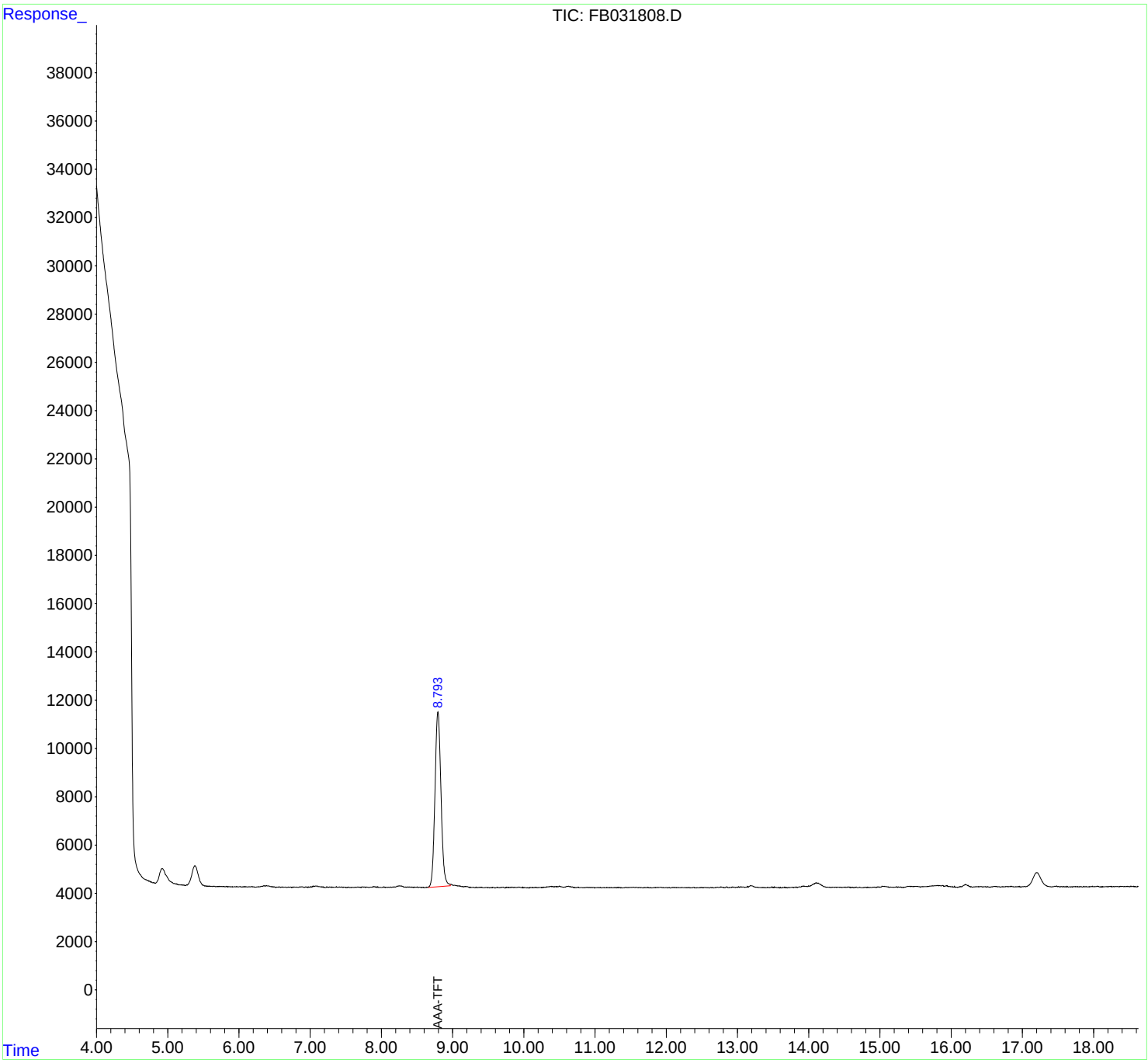
(f)=RT Delta > 1/2 Window (m)=manual int.

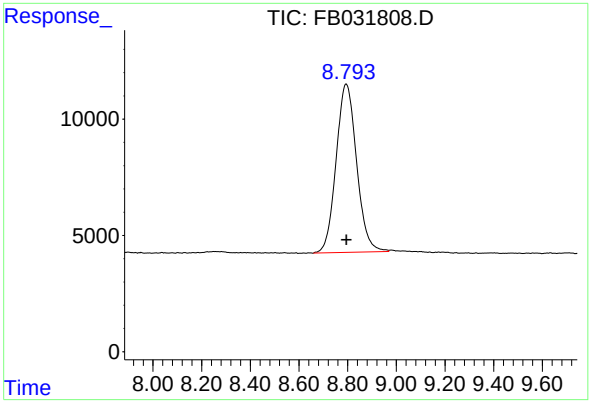
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB052125\
Data File : FB031808.D
Signal(s) : FID2B.CH
Acq On : 21 May 2025 15:29
Operator : YP/AJ
Sample : Q2100-03
Misc : 4.28G/5.00 ML DI WATER
ALS Vial : 3 Sample Multiplier: 1

Instrument :
FID_B
ClientSampleId :
TP-21

Integration File: Calibration.e
Quant Time: May 22 01:49:37 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_B\Method\FB051925.M
Quant Title :
QLast Update : Mon May 19 10:47:15 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 5 g/ml
Signal Phase : RTX-502.2
Signal Info : 60mx0.53mmx3.00um





#5 AAA-TFT

R.T.:	8.794 min
Delta R.T.:	-0.001 min
Response:	423443
Conc:	19.58 ng/ml

Instrument :
FID_B
ClientSampleId :
TP-21

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB052125\
Data File : FB031808.D
Signal(s) : FID2B.CH
Acq On : 21 May 2025 15:29
Sample : Q2100-03
Misc : 4.28G/5.00 ML DI WATER
ALS Vial : 3 Sample Multiplier: 1

Integration File: SAMPLE.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_B\Method\FB051925.M
Title :

Signal : FID2B.CH

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.803	4.791	4.827	PV	15	151	0.03%	0.024%
2	5.227	5.219	5.247	VV	22	202	0.05%	0.032%
3	5.539	5.521	5.598	VV	26	579	0.13%	0.090%
4	5.612	5.598	5.628	VV	16	170	0.04%	0.027%
5	5.640	5.628	5.670	PV	18	356	0.08%	0.056%
6	5.688	5.670	5.696	PV	14	81	0.02%	0.013%
7	5.726	5.696	5.734	VV	19	259	0.06%	0.040%
8	5.745	5.734	5.753	VV	17	151	0.03%	0.024%
9	5.760	5.753	5.814	VV	18	451	0.10%	0.070%
10	5.826	5.814	5.839	VV	29	252	0.06%	0.039%
11	5.849	5.839	5.859	PV	25	148	0.03%	0.023%
12	5.867	5.859	5.937	VV	19	499	0.12%	0.078%
13	5.946	5.937	5.959	VV	19	177	0.04%	0.028%
14	5.968	5.959	5.998	VV	30	337	0.08%	0.053%
15	6.012	5.998	6.035	VV	24	381	0.09%	0.060%
16	6.060	6.035	6.068	VV	21	229	0.05%	0.036%
17	6.082	6.068	6.116	VV	25	504	0.12%	0.079%
18	6.124	6.116	6.129	VV	15	102	0.02%	0.016%
19	6.183	6.129	6.203	VV	33	925	0.21%	0.145%
20	6.210	6.203	6.228	VV	22	206	0.05%	0.032%
21	6.275	6.228	6.294	VV	29	728	0.17%	0.114%
22	6.319	6.294	6.330	VV	50	886	0.20%	0.138%
23	6.356	6.330	6.374	VV	67	1639	0.38%	0.256%
24	6.388	6.374	6.400	VV	79	1062	0.25%	0.166%
25	6.409	6.400	6.475	VV	68	2213	0.51%	0.346%
26	6.484	6.475	6.518	VV	35	617	0.14%	0.096%
27	6.541	6.518	6.549	PV	23	315	0.07%	0.049%
28	6.561	6.549	6.586	VV	31	494	0.11%	0.077%
29	6.595	6.586	6.603	VV	25	156	0.04%	0.024%
30	6.616	6.603	6.628	VV	31	323	0.07%	0.051%
31	6.654	6.628	6.678	VV	25	446	0.10%	0.070%
32	6.694	6.678	6.719	VV	25	449	0.10%	0.070%
33	6.728	6.719	6.743	VV	27	266	0.06%	0.042%
34	6.751	6.743	6.758	VV	20	123	0.03%	0.019%
35	6.766	6.758	6.776	VV	30	258	0.06%	0.040%
36	6.783	6.776	6.793	VV	26	212	0.05%	0.033%

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37	6.806	6.793	6.841	VV	27	504	0.12%	0.079%
38	6.859	6.841	6.870	VV	39	475	0.11%	0.074%
39	6.893	6.870	6.918	VV	39	765	0.18%	0.120%
40	6.940	6.918	6.969	VV	36	620	0.14%	0.097%
41	7.011	6.969	7.022	VV	45	791	0.18%	0.124%
42	7.076	7.022	7.085	VV	71	2015	0.47%	0.315%
43	7.097	7.085	7.151	VV	71	1958	0.45%	0.306%
44	7.161	7.151	7.216	VV	45	882	0.20%	0.138%
45	7.235	7.216	7.249	VV	40	375	0.09%	0.059%
46	7.256	7.249	7.263	VV	27	165	0.04%	0.026%
47	7.275	7.263	7.304	VV	28	529	0.12%	0.083%
48	7.310	7.304	7.320	VV	32	219	0.05%	0.034%
49	7.336	7.320	7.351	VV	24	349	0.08%	0.055%
50	7.371	7.351	7.384	VV	42	514	0.12%	0.080%
51	7.411	7.384	7.428	VV	36	650	0.15%	0.102%
52	7.440	7.428	7.458	VV	33	422	0.10%	0.066%
53	7.490	7.458	7.506	VV	25	503	0.12%	0.079%
54	7.539	7.506	7.563	VV	29	464	0.11%	0.073%
55	7.599	7.563	7.619	VV	19	431	0.10%	0.067%
56	7.670	7.619	7.719	VV	34	1305	0.30%	0.204%
57	7.729	7.719	7.778	VV	41	1031	0.24%	0.161%
58	7.794	7.778	7.822	VV	32	635	0.15%	0.099%
59	7.852	7.822	7.862	VV	30	496	0.11%	0.077%
60	7.898	7.862	7.938	VV	54	1589	0.37%	0.248%
61	7.952	7.938	7.966	VV	44	423	0.10%	0.066%
62	7.985	7.966	7.997	VV	23	301	0.07%	0.047%
63	8.014	7.997	8.022	VV	25	262	0.06%	0.041%
64	8.037	8.022	8.068	VV	42	676	0.16%	0.106%
65	8.081	8.068	8.094	VV	29	319	0.07%	0.050%
66	8.103	8.094	8.119	VV	32	338	0.08%	0.053%
67	8.132	8.119	8.143	VV	34	357	0.08%	0.056%
68	8.165	8.143	8.176	VV	38	568	0.13%	0.089%
69	8.185	8.176	8.194	VV	40	354	0.08%	0.055%
70	8.250	8.194	8.339	VV	83	5097	1.18%	0.797%
71	8.343	8.339	8.351	VV	38	227	0.05%	0.036%
72	8.361	8.351	8.369	VV	40	331	0.08%	0.052%
73	8.391	8.369	8.410	VV	39	749	0.17%	0.117%
74	8.420	8.410	8.448	VV	40	632	0.15%	0.099%
75	8.463	8.448	8.477	VV	32	428	0.10%	0.067%
76	8.487	8.477	8.494	VV	29	265	0.06%	0.041%
77	8.503	8.494	8.520	VV	40	395	0.09%	0.062%
78	8.541	8.520	8.562	VV	34	554	0.13%	0.087%
79	8.589	8.562	8.610	VV	33	492	0.11%	0.077%
80	8.621	8.610	8.630	VV	22	192	0.04%	0.030%
81	8.640	8.630	8.659	VV	28	373	0.09%	0.058%
82	8.794	8.659	8.970	VV	7292	433336	100.00%	67.743%
83	8.979	8.970	9.018	VV	151	3721	0.86%	0.582%
84	9.028	9.018	9.066	VV	113	2909	0.67%	0.455%
85	9.073	9.066	9.091	VV	88	1299	0.30%	0.203%
86	9.100	9.091	9.130	VV	88	1689	0.39%	0.264%
87	9.138	9.130	9.152	VV	67	706	0.16%	0.110%
88	9.175	9.152	9.183	VV	66	999	0.23%	0.156%
89	9.191	9.183	9.205	VV	61	769	0.18%	0.120%

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90	9.212	9.205	9.235	VV	57	721	0.17%	0.113%
91	9.246	9.235	9.257	VV	39	370	0.09%	0.058%
92	9.296	9.257	9.315	VV	30	719	0.17%	0.112%
93	9.329	9.315	9.397	VV	31	1012	0.23%	0.158%
94	9.405	9.397	9.436	VV	37	490	0.11%	0.077%
95	9.476	9.436	9.522	VV	20	804	0.19%	0.126%
96	9.576	9.522	9.600	VV	27	793	0.18%	0.124%
97	9.633	9.600	9.661	VV	37	673	0.16%	0.105%
98	9.709	9.661	9.738	VV	32	1034	0.24%	0.162%
99	9.762	9.738	9.778	PV	37	480	0.11%	0.075%
100	9.787	9.778	9.897	VV	30	1758	0.41%	0.275%
101	9.934	9.897	9.991	VV	40	1408	0.32%	0.220%
102	10.018	9.991	10.070	VV	19	628	0.14%	0.098%
103	10.096	10.070	10.146	VV	26	821	0.19%	0.128%
104	10.160	10.146	10.198	VV	26	657	0.15%	0.103%
105	10.230	10.198	10.260	VV	25	774	0.18%	0.121%
106	10.381	10.260	10.426	VV	72	4720	1.09%	0.738%
107	10.499	10.426	10.556	VV	81	4433	1.02%	0.693%
108	10.628	10.556	10.738	VV	78	4973	1.15%	0.777%
109	10.767	10.738	10.785	VV	33	668	0.15%	0.104%
110	10.806	10.785	10.831	VV	24	498	0.11%	0.078%
111	10.903	10.831	11.030	VV	29	2321	0.54%	0.363%
112	11.075	11.030	11.089	VV	31	629	0.15%	0.098%
113	11.124	11.089	11.203	VV	23	1070	0.25%	0.167%
114	11.230	11.203	11.251	VV	20	452	0.10%	0.071%
115	11.314	11.251	11.382	VV	27	1343	0.31%	0.210%
116	11.436	11.382	11.459	VV	32	796	0.18%	0.124%
117	11.540	11.459	11.563	VV	39	1558	0.36%	0.244%
118	11.584	11.563	11.607	VV	34	617	0.14%	0.096%
119	11.622	11.607	11.679	VV	25	745	0.17%	0.116%
120	11.742	11.679	11.770	VV	30	972	0.22%	0.152%
121	11.784	11.770	11.802	VV	23	220	0.05%	0.034%
122	11.841	11.802	11.860	VV	23	557	0.13%	0.087%
123	11.926	11.860	11.988	VV	37	1677	0.39%	0.262%
124	11.999	11.988	12.013	VV	22	249	0.06%	0.039%
125	12.043	12.013	12.061	VV	28	420	0.10%	0.066%
126	12.084	12.061	12.143	VV	28	941	0.22%	0.147%
127	12.160	12.143	12.197	VV	25	589	0.14%	0.092%
128	12.229	12.197	12.247	VV	23	579	0.13%	0.091%
129	12.260	12.247	12.290	VV	23	427	0.10%	0.067%
130	12.310	12.290	12.345	VV	26	567	0.13%	0.089%
131	12.387	12.345	12.414	VV	30	658	0.15%	0.103%
132	12.492	12.414	12.528	VV	35	1074	0.25%	0.168%
133	12.542	12.528	12.574	VV	27	541	0.12%	0.085%
134	12.589	12.574	12.606	VV	24	288	0.07%	0.045%
135	12.622	12.606	12.665	VV	29	632	0.15%	0.099%
136	12.721	12.665	12.742	VV	37	1101	0.25%	0.172%
137	12.763	12.742	12.824	VV	47	1511	0.35%	0.236%
138	12.847	12.824	12.875	VV	46	949	0.22%	0.148%
139	12.928	12.875	12.973	VV	48	1710	0.39%	0.267%
140	13.038	12.973	13.105	VV	56	3151	0.73%	0.493%
141	13.188	13.105	13.359	VV	108	7321	1.69%	1.145%

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142	13.368	13.359	13.397	VV	28	447	0.10%	0.070%
143	13.426	13.397	13.454	VV	26	711	0.16%	0.111%
144	13.487	13.454	13.521	VV	47	1206	0.28%	0.189%
145	13.533	13.521	13.557	VV	42	596	0.14%	0.093%
146	13.572	13.557	13.589	VV	32	393	0.09%	0.062%
147	13.602	13.589	13.616	PV	31	244	0.06%	0.038%
148	13.658	13.616	13.703	VV	42	1022	0.24%	0.160%
149	13.768	13.703	13.811	VV	31	1525	0.35%	0.238%
150	13.823	13.811	13.842	VV	49	588	0.14%	0.092%
151	13.870	13.842	13.883	VV	55	963	0.22%	0.151%
152	13.923	13.883	13.989	VV	79	4227	0.98%	0.661%
153	14.106	13.989	14.251	VV	220	19409	4.48%	3.034%
154	14.266	14.251	14.303	VV	34	841	0.19%	0.131%
155	14.380	14.303	14.482	VV	35	2600	0.60%	0.406%
156	14.497	14.482	14.527	VV	34	673	0.16%	0.105%
157	14.556	14.527	14.590	VV	36	917	0.21%	0.143%
158	14.615	14.590	14.635	VV	32	418	0.10%	0.065%
159	14.669	14.635	14.686	VV	36	481	0.11%	0.075%
160	14.716	14.686	14.749	VV	24	406	0.09%	0.063%
161	14.780	14.749	14.838	VV	20	632	0.15%	0.099%
162	14.844	14.838	14.856	VV	21	149	0.03%	0.023%
163	14.927	14.856	14.958	VV	31	999	0.23%	0.156%
164	14.985	14.958	15.000	VV	41	723	0.17%	0.113%
165	15.033	15.000	15.136	VV	60	3360	0.78%	0.525%
166	15.153	15.136	15.202	VV	28	741	0.17%	0.116%
167	15.232	15.202	15.250	VV	39	657	0.15%	0.103%
168	15.264	15.250	15.281	VV	26	417	0.10%	0.065%
169	15.294	15.281	15.328	VV	31	449	0.10%	0.070%
170	15.412	15.328	15.429	VV	60	2214	0.51%	0.346%
171	15.445	15.429	15.467	VV	51	1101	0.25%	0.172%
172	15.508	15.467	15.565	VV	51	2608	0.60%	0.408%
173	15.811	15.565	15.863	VV	90	10191	2.35%	1.593%
174	15.880	15.863	15.910	VV	86	1915	0.44%	0.299%
175	15.933	15.910	16.000	VV	80	2694	0.62%	0.421%
176	16.013	16.000	16.028	VV	46	462	0.11%	0.072%
177	16.047	16.028	16.095	VV	40	584	0.13%	0.091%
178	16.205	16.095	16.305	PV	118	6578	1.52%	1.028%
179	16.418	16.305	16.453	VV	35	2175	0.50%	0.340%
180	16.486	16.453	16.548	VV	32	1060	0.24%	0.166%
181	16.614	16.548	16.689	PV	38	1944	0.45%	0.304%
182	16.728	16.689	16.746	VV	21	519	0.12%	0.081%
183	16.839	16.746	16.895	VV	35	1886	0.44%	0.295%
184	16.909	16.895	16.923	VV	17	205	0.05%	0.032%
185	16.959	16.923	16.987	VV	17	504	0.12%	0.079%
186	17.030	16.987	17.043	PV	20	350	0.08%	0.055%
			Sum of corrected areas:			639675		

FB051925.M Thu May 22 02:52:22 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB052125\
Data File : FB031809.D
Signal(s) : FID2B.CH
Acq On : 21 May 2025 15:57
Operator : YP/AJ
Sample : Q2100-04
Misc : 6.39G/5.00 ML DI WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
FID_B
ClientSampleId :
TP-45

Integration File: Calibration.e
Quant Time: May 22 01:49:45 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_B\Method\FB051925.M
Quant Title :
QLast Update : Mon May 19 10:47:15 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 5 g/ml
Signal Phase : RTX-502.2
Signal Info : 60mx0.53mmx3.00um

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
5) s	AAA-TFT	8.796	315441	14.588 ng/ml
	Target Compounds			

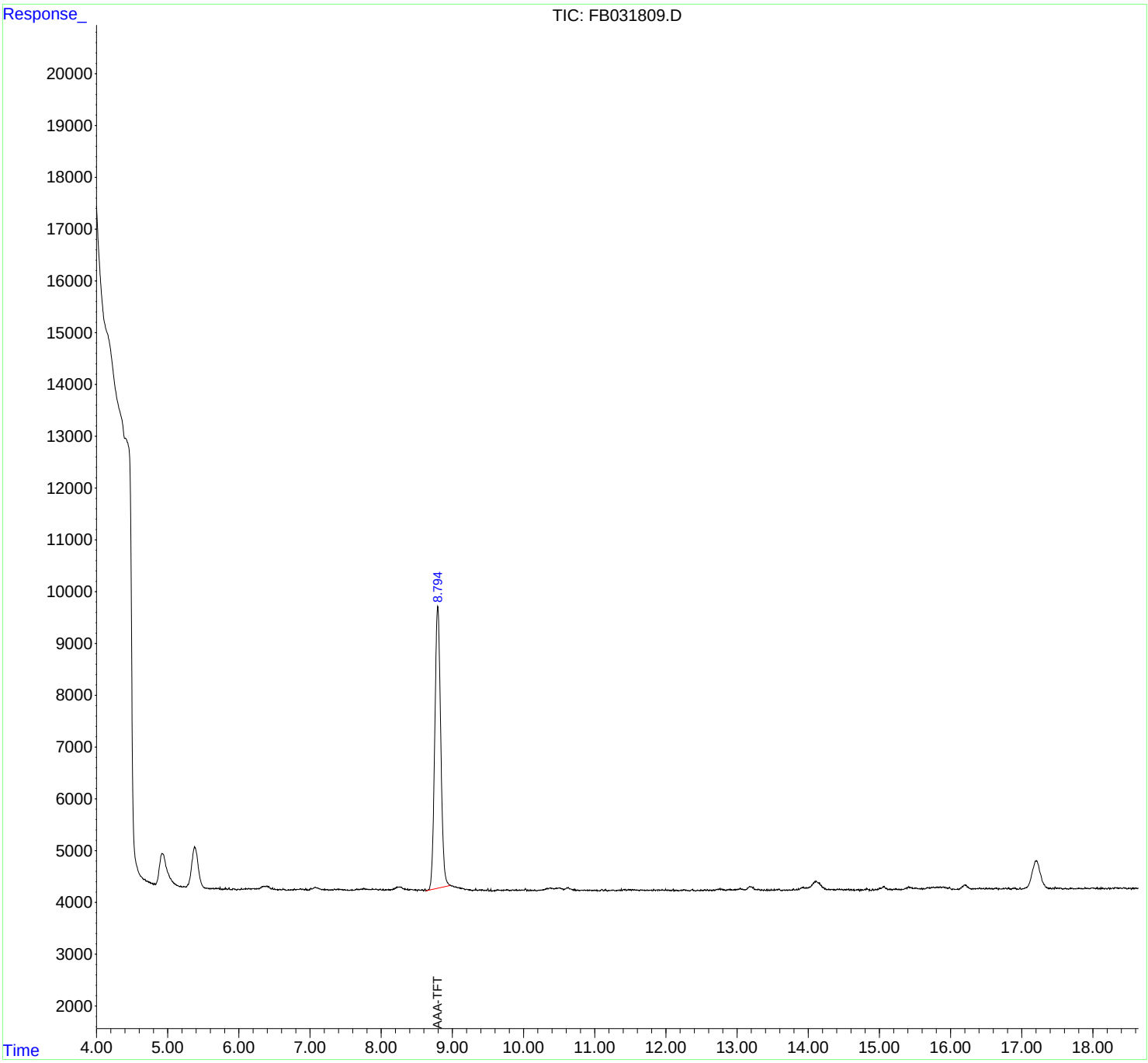
(f)=RT Delta > 1/2 Window (m)=manual int.

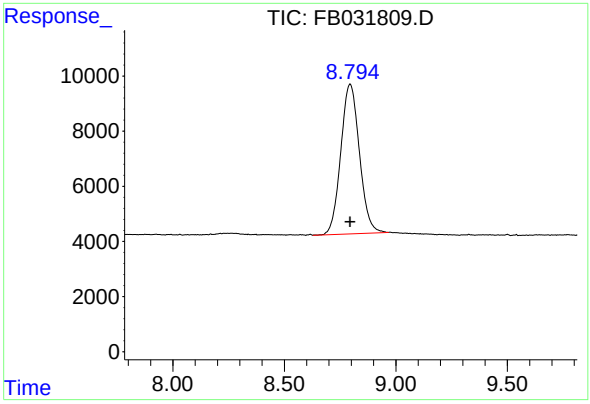
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB052125\
Data File : FB031809.D
Signal(s) : FID2B.CH
Acq On : 21 May 2025 15:57
Operator : YP/AJ
Sample : Q2100-04
Misc : 6.39G/5.00 ML DI WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
FID_B
ClientSampleId :
TP-45

Integration File: Calibration.e
Quant Time: May 22 01:49:45 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_B\Method\FB051925.M
Quant Title :
QLast Update : Mon May 19 10:47:15 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 5 g/ml
Signal Phase : RTX-502.2
Signal Info : 60mx0.53mmx3.00um





#5 AAA-TFT

R.T.:	8.796 min
Delta R.T.:	0.000 min
Response:	315441
Conc:	14.59 ng/ml

Instrument :
FID_B
ClientSampleId :
TP-45

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB052125\
Data File : FB031809.D
Signal(s) : FID2B.CH
Acq On : 21 May 2025 15:57
Sample : Q2100-04
Misc : 6.39G/5.00 ML DI WATER
ALS Vial : 4 Sample Multiplier: 1

Integration File: SAMPLE.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_B\Method\FB051925.M
Title :

Signal : FID2B.CH

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.739	4.735	4.809	PV	13	233	0.07%	0.044%
2	4.820	4.809	4.834	PV	25	161	0.05%	0.031%
3	5.186	5.173	5.213	VV	18	122	0.04%	0.023%
4	5.228	5.213	5.248	PV	17	155	0.05%	0.030%
5	5.556	5.548	5.592	VV	15	217	0.07%	0.041%
6	5.599	5.592	5.623	VV	13	185	0.06%	0.035%
7	5.642	5.623	5.664	VV	20	320	0.10%	0.061%
8	5.716	5.664	5.730	VV	31	752	0.23%	0.143%
9	5.739	5.730	5.751	VV	40	243	0.07%	0.046%
10	5.766	5.751	5.798	PV	13	298	0.09%	0.057%
11	5.811	5.798	5.843	VV	39	516	0.16%	0.098%
12	5.864	5.843	5.882	VV	40	450	0.14%	0.086%
13	5.893	5.882	5.902	VV	14	128	0.04%	0.024%
14	5.920	5.902	5.930	VV	34	356	0.11%	0.068%
15	5.941	5.930	5.969	VV	28	415	0.13%	0.079%
16	5.991	5.969	6.014	PV	26	418	0.13%	0.080%
17	6.039	6.014	6.059	VV	35	548	0.17%	0.104%
18	6.070	6.059	6.086	VV	28	396	0.12%	0.076%
19	6.099	6.086	6.107	VV	37	370	0.11%	0.071%
20	6.113	6.107	6.122	VV	31	231	0.07%	0.044%
21	6.139	6.122	6.154	VV	39	598	0.18%	0.114%
22	6.192	6.154	6.226	VV	37	1358	0.41%	0.259%
23	6.273	6.226	6.288	VV	41	1179	0.36%	0.225%
24	6.327	6.288	6.338	VV	74	1710	0.52%	0.326%
25	6.347	6.338	6.362	VV	80	1106	0.34%	0.211%
26	6.369	6.362	6.378	VV	84	723	0.22%	0.138%
27	6.404	6.378	6.414	VV	83	1635	0.50%	0.312%
28	6.422	6.414	6.458	VV	80	1395	0.43%	0.266%
29	6.474	6.458	6.491	VV	49	590	0.18%	0.113%
30	6.500	6.491	6.520	VV	39	431	0.13%	0.082%
31	6.529	6.520	6.558	VV	21	321	0.10%	0.061%
32	6.579	6.558	6.600	VV	21	410	0.12%	0.078%
33	6.622	6.600	6.668	VV	30	661	0.20%	0.126%
34	6.699	6.668	6.726	PV	21	350	0.11%	0.067%
35	6.737	6.726	6.748	VV	21	176	0.05%	0.034%
36	6.782	6.748	6.804	VV	35	580	0.18%	0.110%

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37	6.825	6.804	6.843	VV	25	493	0.15%	0.094%
38	6.870	6.843	6.889	VV	37	758	0.23%	0.145%
39	6.899	6.889	6.925	VV	31	511	0.16%	0.097%
40	6.938	6.925	6.945	VV	35	273	0.08%	0.052%
41	6.950	6.945	6.957	VV	28	125	0.04%	0.024%
42	7.013	6.957	7.027	VV	47	934	0.28%	0.178%
43	7.074	7.027	7.128	VV	67	3037	0.93%	0.579%
44	7.140	7.128	7.194	VV	39	1024	0.31%	0.195%
45	7.205	7.194	7.219	VV	35	339	0.10%	0.065%
46	7.229	7.219	7.237	VV	24	212	0.06%	0.040%
47	7.251	7.237	7.262	VV	25	280	0.09%	0.053%
48	7.277	7.262	7.285	VV	18	183	0.06%	0.035%
49	7.292	7.285	7.301	VV	21	151	0.05%	0.029%
50	7.310	7.301	7.329	VV	21	248	0.08%	0.047%
51	7.343	7.329	7.368	VV	36	555	0.17%	0.106%
52	7.384	7.368	7.435	VV	32	1021	0.31%	0.195%
53	7.443	7.435	7.452	VV	28	225	0.07%	0.043%
54	7.462	7.452	7.474	VV	24	248	0.08%	0.047%
55	7.485	7.474	7.502	VV	24	282	0.09%	0.054%
56	7.513	7.502	7.549	VV	15	330	0.10%	0.063%
57	7.580	7.549	7.612	VV	18	439	0.13%	0.084%
58	7.638	7.612	7.646	VV	29	334	0.10%	0.064%
59	7.659	7.646	7.669	VV	36	403	0.12%	0.077%
60	7.677	7.669	7.701	VV	31	499	0.15%	0.095%
61	7.716	7.701	7.728	VV	39	493	0.15%	0.094%
62	7.739	7.728	7.746	VV	42	361	0.11%	0.069%
63	7.756	7.746	7.781	VV	53	788	0.24%	0.150%
64	7.791	7.781	7.822	VV	34	679	0.21%	0.129%
65	7.828	7.822	7.846	VV	30	391	0.12%	0.075%
66	7.876	7.846	7.899	VV	39	931	0.28%	0.177%
67	7.926	7.899	7.966	VV	38	1065	0.32%	0.203%
68	7.993	7.966	8.008	VV	37	644	0.20%	0.123%
69	8.017	8.008	8.022	VV	23	154	0.05%	0.029%
70	8.032	8.022	8.045	VV	38	294	0.09%	0.056%
71	8.067	8.045	8.075	VV	25	338	0.10%	0.064%
72	8.152	8.075	8.160	VV	31	1161	0.35%	0.221%
73	8.171	8.160	8.182	VV	49	460	0.14%	0.088%
74	8.213	8.182	8.240	VV	74	2041	0.62%	0.389%
75	8.266	8.240	8.351	VV	80	3754	1.14%	0.716%
76	8.372	8.351	8.381	VV	36	515	0.16%	0.098%
77	8.418	8.381	8.465	VV	31	1241	0.38%	0.237%
78	8.472	8.465	8.508	VV	26	529	0.16%	0.101%
79	8.529	8.508	8.562	VV	25	604	0.18%	0.115%
80	8.573	8.562	8.597	VV	31	391	0.12%	0.075%
81	8.617	8.597	8.629	VV	42	406	0.12%	0.077%
82	8.638	8.629	8.648	VV	13	141	0.04%	0.027%
83	8.795	8.648	8.988	VV	5497	328313	100.00%	62.594%
84	8.995	8.988	9.032	VV	103	2527	0.77%	0.482%
85	9.043	9.032	9.076	VV	86	2008	0.61%	0.383%
86	9.085	9.076	9.132	VV	72	2059	0.63%	0.393%
87	9.138	9.132	9.185	VV	59	1443	0.44%	0.275%
88	9.197	9.185	9.236	VV	39	993	0.30%	0.189%
89	9.244	9.236	9.286	VV	32	621	0.19%	0.118%

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90	9.328	9.286	9.356	VV	47	976	0.30%	0.186%
91	9.392	9.356	9.446	VV	28	1180	0.36%	0.225%
92	9.500	9.446	9.518	VV	44	854	0.26%	0.163%
93	9.539	9.518	9.561	PV	28	333	0.10%	0.063%
94	9.630	9.561	9.708	VV	29	1505	0.46%	0.287%
95	9.771	9.708	9.829	VV	34	1516	0.46%	0.289%
96	9.846	9.829	9.875	VV	30	610	0.19%	0.116%
97	10.027	9.875	10.076	VV	44	2661	0.81%	0.507%
98	10.093	10.076	10.135	VV	30	564	0.17%	0.108%
99	10.159	10.135	10.178	VV	32	456	0.14%	0.087%
100	10.374	10.178	10.438	VV	67	5978	1.82%	1.140%
101	10.507	10.438	10.564	VV	67	4131	1.26%	0.788%
102	10.630	10.564	10.748	VV	71	4592	1.40%	0.875%
103	10.760	10.748	10.797	VV	29	512	0.16%	0.098%
104	10.824	10.797	10.840	VV	23	481	0.15%	0.092%
105	10.858	10.840	10.920	VV	22	909	0.28%	0.173%
106	10.935	10.920	10.972	VV	23	567	0.17%	0.108%
107	11.006	10.972	11.064	VV	25	918	0.28%	0.175%
108	11.102	11.064	11.126	VV	36	734	0.22%	0.140%
109	11.155	11.126	11.184	VV	35	566	0.17%	0.108%
110	11.198	11.184	11.216	PV	13	267	0.08%	0.051%
111	11.266	11.216	11.286	VV	24	731	0.22%	0.139%
112	11.329	11.286	11.362	VV	22	660	0.20%	0.126%
113	11.375	11.362	11.426	VV	43	948	0.29%	0.181%
114	11.433	11.426	11.448	VV	39	361	0.11%	0.069%
115	11.491	11.448	11.518	VV	34	1107	0.34%	0.211%
116	11.531	11.518	11.629	VV	36	1564	0.48%	0.298%
117	11.651	11.629	11.714	VV	29	974	0.30%	0.186%
118	11.737	11.714	11.753	VV	28	448	0.14%	0.085%
119	11.776	11.753	11.812	VV	22	591	0.18%	0.113%
120	11.829	11.812	11.855	VV	30	480	0.15%	0.092%
121	11.899	11.855	11.934	VV	28	1002	0.31%	0.191%
122	11.949	11.934	11.978	VV	30	524	0.16%	0.100%
123	11.994	11.978	12.057	VV	34	870	0.26%	0.166%
124	12.102	12.057	12.124	VV	38	669	0.20%	0.128%
125	12.138	12.124	12.180	VV	18	451	0.14%	0.086%
126	12.256	12.180	12.334	VV	31	1433	0.44%	0.273%
127	12.373	12.334	12.417	VV	30	767	0.23%	0.146%
128	12.448	12.417	12.472	PV	17	357	0.11%	0.068%
129	12.497	12.472	12.524	VV	20	431	0.13%	0.082%
130	12.549	12.524	12.567	VV	30	463	0.14%	0.088%
131	12.583	12.567	12.648	VV	31	766	0.23%	0.146%
132	12.763	12.648	12.848	VV	49	3088	0.94%	0.589%
133	12.901	12.848	12.946	VV	42	1425	0.43%	0.272%
134	13.045	12.946	13.110	VV	60	3068	0.93%	0.585%
135	13.180	13.110	13.288	VV	89	5424	1.65%	1.034%
136	13.302	13.288	13.328	VV	32	633	0.19%	0.121%
137	13.355	13.328	13.371	VV	23	444	0.14%	0.085%
138	13.385	13.371	13.406	VV	19	335	0.10%	0.064%
139	13.482	13.406	13.508	VV	32	1005	0.31%	0.192%
140	13.522	13.508	13.544	VV	32	405	0.12%	0.077%
141	13.559	13.544	13.571	VV	30	358	0.11%	0.068%

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142	13.591	13.571	13.630	VV	34	740	0.23%	0.141%
143	13.680	13.630	13.707	VV	18	700	0.21%	0.133%
144	13.735	13.707	13.763	VV	22	531	0.16%	0.101%
145	13.795	13.763	13.812	VV	44	679	0.21%	0.129%
146	13.933	13.812	13.964	VV	72	3910	1.19%	0.745%
147	14.111	13.964	14.309	VV	184	18949	5.77%	3.613%
148	14.325	14.309	14.384	VV	30	1027	0.31%	0.196%
149	14.410	14.384	14.452	VV	33	1059	0.32%	0.202%
150	14.474	14.452	14.496	VV	33	626	0.19%	0.119%
151	14.567	14.496	14.581	VV	36	1168	0.36%	0.223%
152	14.593	14.581	14.657	VV	32	801	0.24%	0.153%
153	14.710	14.657	14.777	VV	30	1196	0.36%	0.228%
154	14.824	14.777	14.888	VV	41	1467	0.45%	0.280%
155	14.905	14.888	14.920	PV	26	344	0.10%	0.066%
156	15.063	14.920	15.144	VV	72	5233	1.59%	0.998%
157	15.153	15.144	15.185	VV	34	542	0.16%	0.103%
158	15.228	15.185	15.327	VV	37	1926	0.59%	0.367%
159	15.410	15.327	15.476	VV	69	4011	1.22%	0.765%
160	15.517	15.476	15.587	VV	49	2425	0.74%	0.462%
161	15.595	15.587	15.609	VV	45	422	0.13%	0.080%
162	15.623	15.609	15.643	VV	40	585	0.18%	0.112%
163	15.684	15.643	15.718	VV	52	1932	0.59%	0.368%
164	15.736	15.718	15.782	VV	60	2037	0.62%	0.388%
165	15.811	15.782	15.840	VV	60	1918	0.58%	0.366%
166	15.854	15.840	15.874	VV	68	1158	0.35%	0.221%
167	15.898	15.874	15.964	VV	62	2695	0.82%	0.514%
168	15.987	15.964	16.024	VV	55	1170	0.36%	0.223%
169	16.045	16.024	16.063	VV	23	383	0.12%	0.073%
170	16.099	16.063	16.119	VV	20	467	0.14%	0.089%
171	16.196	16.119	16.349	VV	98	6511	1.98%	1.241%
172	16.378	16.349	16.391	VV	27	589	0.18%	0.112%
173	16.408	16.391	16.433	VV	42	674	0.21%	0.129%
174	16.466	16.433	16.483	VV	31	635	0.19%	0.121%
175	16.497	16.483	16.522	VV	32	510	0.16%	0.097%
176	16.547	16.522	16.562	VV	30	519	0.16%	0.099%
177	16.582	16.562	16.603	VV	27	459	0.14%	0.087%
178	16.637	16.603	16.711	VV	32	1381	0.42%	0.263%
179	16.774	16.711	16.795	VV	30	998	0.30%	0.190%
180	16.814	16.795	16.853	VV	38	623	0.19%	0.119%
181	16.893	16.853	16.959	VV	35	1094	0.33%	0.209%
182	16.977	16.959	16.995	VV	38	342	0.10%	0.065%
			Sum of corrected areas:			524515		

FB051925.M Thu May 22 02:52:49 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB052125\
Data File : FB031798.D
Signal(s) : FID2B.CH
Acq On : 21 May 2025 9:44
Operator : YP/AJ
Sample : VBF0521S1
Misc : 5.00G/5.00 ML DI WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
FID_B
ClientSampleId :
VBF0521S1

Integration File: Calibration.e
Quant Time: May 22 01:47:54 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_B\Method\FB051925.M
Quant Title :
QLast Update : Mon May 19 10:47:15 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 5 g/ml
Signal Phase : RTX-502.2
Signal Info : 60mx0.53mmx3.00um

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
5) s AAA-TFT	8.795	424510	19.632 ng/ml
Target Compounds			

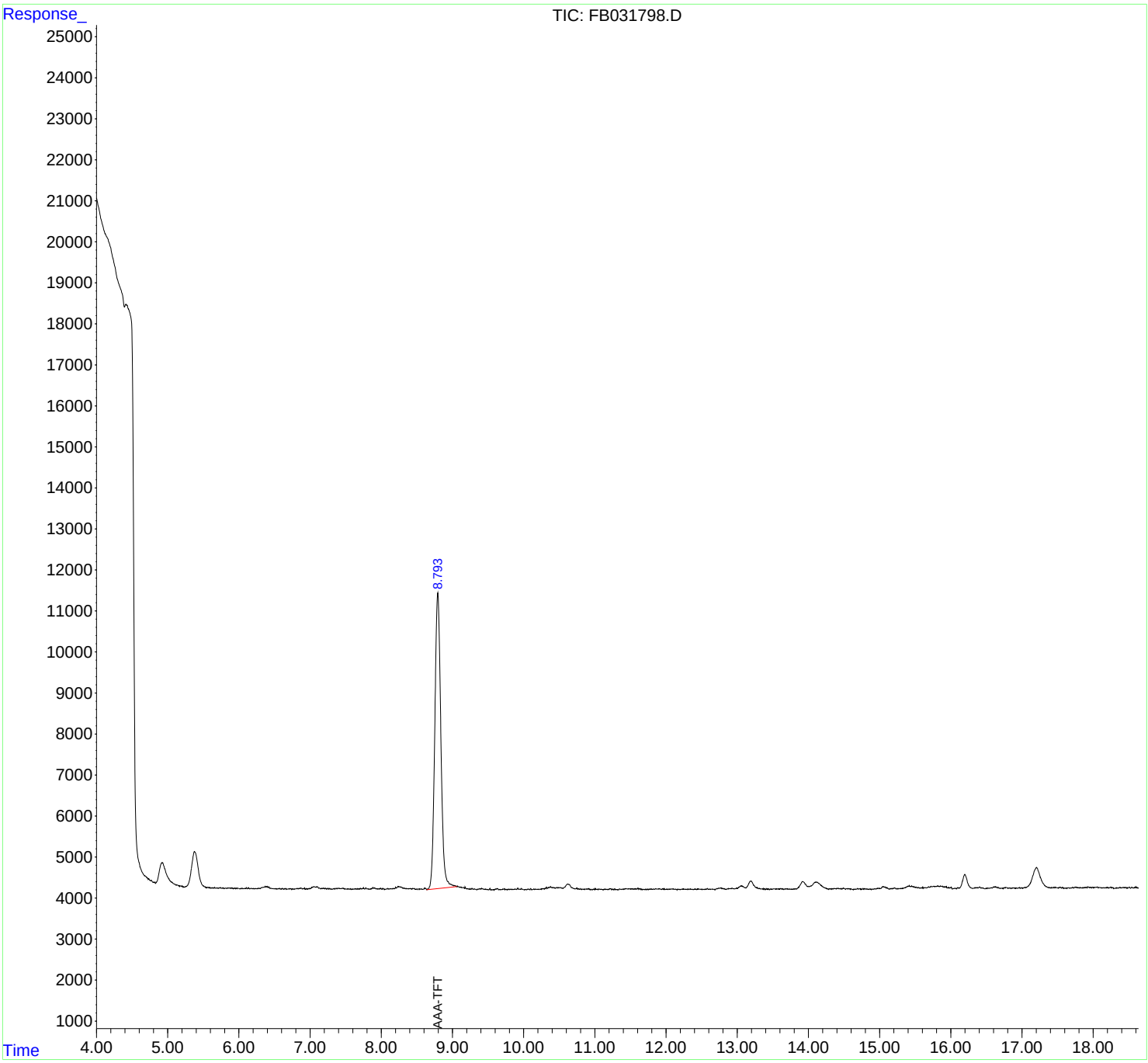
(f)=RT Delta > 1/2 Window (m)=manual int.

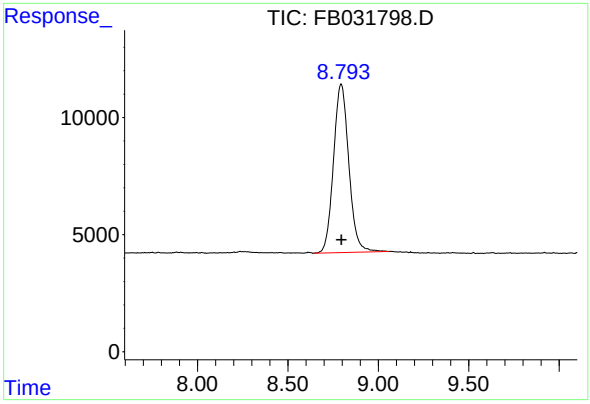
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB052125\
Data File : FB031798.D
Signal(s) : FID2B.CH
Acq On : 21 May 2025 9:44
Operator : YP/AJ
Sample : VBF0521S1
Misc : 5.00G/5.00 ML DI WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
FID_B
ClientSampleId :
VBF0521S1

Integration File: Calibration.e
Quant Time: May 22 01:47:54 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_B\Method\FB051925.M
Quant Title :
QLast Update : Mon May 19 10:47:15 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 5 g/ml
Signal Phase : RTX-502.2
Signal Info : 60mx0.53mmx3.00um





#5 AAA-TFT

R.T.:	8.795 min
Delta R.T.:	-0.001 min
Response:	424510
Conc:	19.63 ng/ml

Instrument :
FID_B
ClientSampleId :
VBF0521S1

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB052125\
Data File : FB031798.D
Signal(s) : FID2B.CH
Acq On : 21 May 2025 9:44
Sample : VBF0521S1
Misc : 5.00G/5.00 ML DI WATER
ALS Vial : 2 Sample Multiplier: 1

Integration File: Calibration.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_B\Method\FB051925.M
Title :

Signal : FID2B.CH

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	8.795	8.640	9.057	PV	7203	424510	100.00%	100.000%
			Sum of corrected areas:			424510		

FB051925.M Thu May 22 02:47:01 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB052125\
Data File : FB031800.D
Signal(s) : FID2B.CH
Acq On : 21 May 2025 10:40
Operator : YP/AJ
Sample : BSF0521S1
Misc : 5.00G/5.00 ML DI WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
FID_B
ClientSampleId :
BSF0521S1

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 05/22/2025
Supervised By :mohammad ahmed 05/26/2025

Integration File: Calibration.e
Quant Time: May 22 01:48:16 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_B\Method\FB051925.M
Quant Title :
QLast Update : Mon May 19 10:47:15 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 5 g/ml
Signal Phase : RTX-502.2
Signal Info : 60mx0.53mmx3.00um

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
5) s	AAA-TFT	8.796	315810	14.605 ng/ml
	Target Compounds			
1) t	2-Methylpentane	4.725	829785	24.889 ng/mlm
2) t	2,2,4-Trimethylpentane	7.425	1033102	25.849 ng/ml
3) t	n-Heptane	7.758	310105	8.107 ng/ml
4) t	Benzene	7.898	388625	8.288 ng/ml
6) t	Toluene	10.624	1105052	25.028 ng/ml
7) t	Ethylbenzene	13.061	318035	8.198 ng/ml
8) t	m-Xylene	13.194	710442	16.478 ng/ml
9) t	O-Xylene	13.923	672628	16.854 ng/ml
10) t	1,2,4-Trimethylbenzene	16.197	448249	15.710 ng/ml

(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB052125\
Data File : FB031800.D
Signal(s) : FID2B.CH
Acq On : 21 May 2025 10:40
Operator : YP/AJ
Sample : BSF0521S1
Misc : 5.00G/5.00 ML DI WATER
ALS Vial : 4 Sample Multiplier: 1

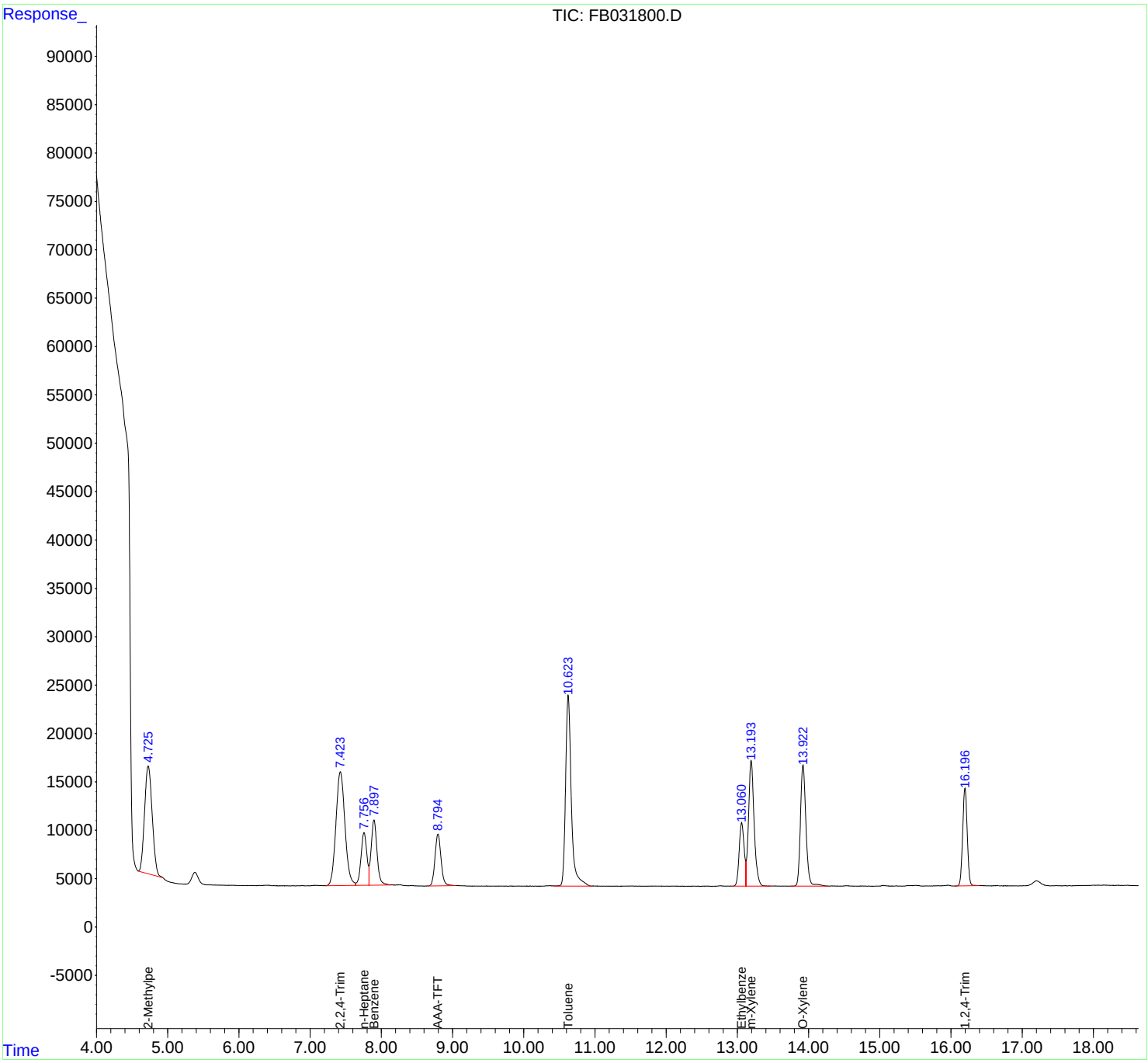
Integration File: Calibration.e
Quant Time: May 22 01:48:16 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_B\Method\FB051925.M
Quant Title :
QLast Update : Mon May 19 10:47:15 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 5 g/ml
Signal Phase : RTX-502.2
Signal Info : 60mx0.53mmx3.00um

Instrument :
FID_B
ClientSampleId :
BSF0521S1

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 05/22/2025
Supervised By :mohammad ahmed 05/26/2025



Instrument :
FID_B
ClientSampleId :
BSF0521S1

rteres

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 05/22/2025
Supervised By :mohammad ahmed 05/26/2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB05212
Data File : FB031800.D
Signal(s) : FID2B.CH
Acq On : 21 May 2025 10:40
Sample : BSF0521S1
Misc : 5.00G/5.00 ML DI WATER
ALS Vial : 4 Sample Multiplier: 1

Integration File: Calibration.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_B\Method\FB051925.M
Title :

Signal : FID2B.CH

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.727	4.582	5.219	BV	11150	813215	73.59%	13.298%
2	7.425	7.217	7.638	PV	11766	1033102	93.49%	16.894%
3	7.758	7.638	7.826	VV	5448	310105	28.06%	5.071%
4	7.898	7.826	8.134	VV	6739	388625	35.17%	6.355%
5	8.796	8.661	9.052	PV	5346	315810	28.58%	5.164%
6	10.624	10.417	10.963	VV	19732	1105052	100.00%	18.070%
7	13.061	12.943	13.121	BV	6576	318035	28.78%	5.201%
8	13.194	13.121	13.469	VV	12975	710442	64.29%	11.618%
9	13.923	13.756	14.282	BV	12538	672628	60.87%	10.999%
10	16.197	16.046	16.401	BBA	10086	448249	40.56%	7.330%

Sum of corrected areas: 6115263

FB051925.M Thu May 22 02:47:39 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB052125\
Data File : FB031804.D
Signal(s) : FID2B.CH
Acq On : 21 May 2025 12:39
Operator : YP/AJ
Sample : BSF0521S2
Misc : 5.00G/5.00 ML DI WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
FID_B
ClientSampleId :
BSF0521S2

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 05/22/2025
Supervised By :mohammad ahmed 05/26/2025

Integration File: Calibration.e
Quant Time: May 22 01:48:55 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_B\Method\FB051925.M
Quant Title :
QLast Update : Mon May 19 10:47:15 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 5 g/ml
Signal Phase : RTX-502.2
Signal Info : 60mx0.53mmx3.00um

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
5) s	AAA-TFT	8.795	387952	17.941 ng/ml
	Target Compounds			
1) t	2-Methylpentane	4.727	843138	25.289 ng/mlm
2) t	2,2,4-Trimethylpentane	7.428	1087274	27.205 ng/ml
3) t	n-Heptane	7.757	332293	8.687 ng/ml
4) t	Benzene	7.897	430616	9.183 ng/ml
6) t	Toluene	10.624	1215320	27.525 ng/ml
7) t	Ethylbenzene	13.060	346539	8.933 ng/ml
8) t	m-Xylene	13.194	765945	17.765 ng/ml
9) t	O-Xylene	13.922	721022	18.067 ng/ml
10) t	1,2,4-Trimethylbenzene	16.197	479047	16.790 ng/ml

(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB052125\
Data File : FB031804.D
Signal(s) : FID2B.CH
Acq On : 21 May 2025 12:39
Operator : YP/AJ
Sample : BSF0521S2
Misc : 5.00G/5.00 ML DI WATER
ALS Vial : 8 Sample Multiplier: 1

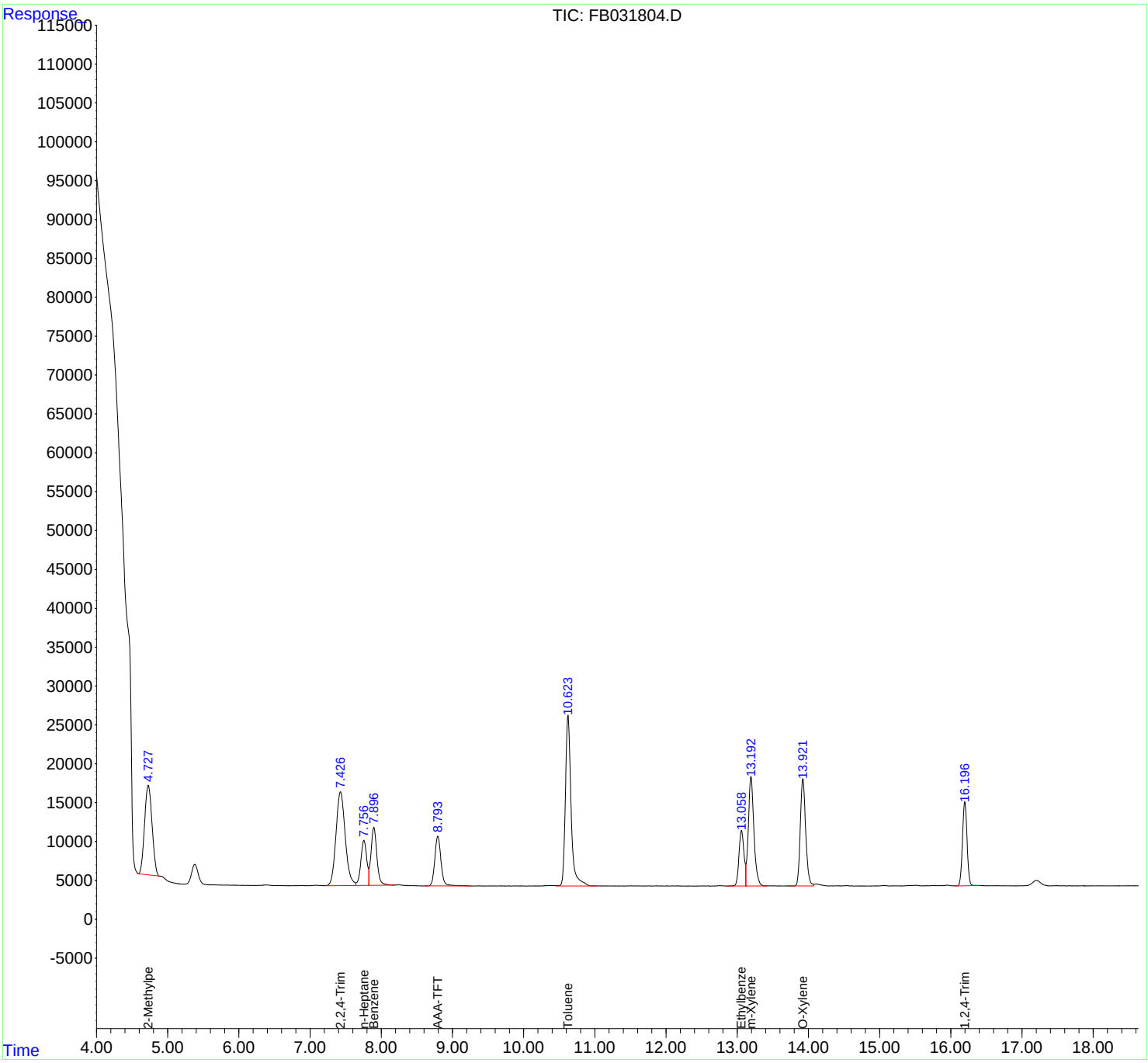
Integration File: Calibration.e
Quant Time: May 22 01:48:55 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_B\Method\FB051925.M
Quant Title :
QLast Update : Mon May 19 10:47:15 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 5 g/ml
Signal Phase : RTX-502.2
Signal Info : 60mx0.53mmx3.00um

Instrument :
FID_B
ClientSampleId :
BSF0521S2

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 05/22/2025
Supervised By :mohammad ahmed 05/26/2025



Instrument :
FID_B
ClientSampleId :
BSF0521S2

rteres

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 05/22/2025
Supervised By :mohammad ahmed 05/26/2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB05212
Data File : FB031804.D
Signal(s) : FID2B.CH
Acq On : 21 May 2025 12:39
Sample : BSF0521S2
Misc : 5.00G/5.00 ML DI WATER
ALS Vial : 8 Sample Multiplier: 1

Integration File: Calibration.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_B\Method\FB051925.M
Title :

Signal : FID2B.CH

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.728	4.582	5.127	BV	11708	894851	73.63%	13.434%
2	7.428	7.220	7.643	PV	12072	1087274	89.46%	16.323%
3	7.757	7.643	7.825	VV	5807	332293	27.34%	4.989%
4	7.897	7.825	8.200	VV	7463	430616	35.43%	6.465%
5	8.795	8.609	9.260	BB	6418	387952	31.92%	5.824%
6	10.624	10.454	11.033	VV	21931	1215320	100.00%	18.246%
7	13.060	12.845	13.120	BV	7164	346539	28.51%	5.203%
8	13.194	13.120	13.422	VV	14069	765945	63.02%	11.499%
9	13.922	13.722	14.072	BV	13801	721022	59.33%	10.825%
10	16.197	16.060	16.403	PBA	10788	479047	39.42%	7.192%

Sum of corrected areas: 6660860

FB051925.M Thu May 22 02:48:15 2025

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Manual Integration Report

Sample ID	ClientId ID	File ID	Sequence ID	Parameter	Supervised By	Supervised On	Reason
10 GRO STD		FB031774.D	FB051925	2-Methylpentane	mohammad	5/21/2025 5:31:15 AM	Peak Integrated by Software incorrectly
50 GRO STD		FB031776.D	FB051925	2-Methylpentane	mohammad	5/21/2025 5:31:15 AM	Peak Integrated by Software incorrectly
100 GRO STD		FB031777.D	FB051925	2-Methylpentane	mohammad	5/21/2025 5:31:15 AM	Peak Integrated by Software incorrectly
FB051925GROICV		FB031778.D	FB051925	2-Methylpentane	mohammad	5/21/2025 5:31:15 AM	Peak Integrated by Software incorrectly

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Manual Integration Report

Sample ID	ClientId ID	File ID	Sequence ID	Parameter	Supervised By	Supervised On	Reason
20 PPB GRO STD		FB031797.D	FB052125	2-Methylpentane	mohammad	5/26/2025 2:21:45 AM	Peak Integrated by Software incorrectly
BSF0521S1		FB031800.D	FB052125	2-Methylpentane	mohammad	5/26/2025 2:21:45 AM	Peak Integrated by Software incorrectly
BSF0521S2		FB031804.D	FB052125	2-Methylpentane	mohammad	5/26/2025 2:21:45 AM	Peak Integrated by Software incorrectly
BSF0521S3		FB031810.D	FB052125	2-Methylpentane	mohammad	5/26/2025 2:21:45 AM	Peak Integrated by Software incorrectly
20 PPB GRO STD		FB031811.D	FB052125	2-Methylpentane	mohammad	5/26/2025 2:21:45 AM	Peak Integrated by Software incorrectly

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Instrument ID: FID_B

Daily Analysis Runlog For Sequence/QCBatch ID # FB051925

Review By	yogesh	Review On	5/19/2025 11:36:03 AM		
Supervise By	mohammad	Supervise On	5/21/2025 5:31:15 AM		
SubDirectory	FB051925	HP Acquire Method		HP Processing Method	FB051925

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24110,PP24585,PP24586,PP24587,PP24588,PP24589
CCC	
Internal Standard/PEM	
ICV/I.BLK	PP24111,PP24590
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	5 GRO STD	FB031773.D	19 May 2025 9:07	YP/AJ	Ok
2	10 GRO STD	FB031774.D	19 May 2025 9:35	YP/AJ	Ok,M
3	20 GRO STD	FB031775.D	19 May 2025 10:03	YP/AJ	Ok
4	50 GRO STD	FB031776.D	19 May 2025 10:31	YP/AJ	Ok,M
5	100 GRO STD	FB031777.D	19 May 2025 10:58	YP/AJ	Ok,M
6	FB051925GROICV	FB031778.D	19 May 2025 11:41	YP/AJ	Ok,M

M : Manual Integration

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Instrument ID: FID_B

Daily Analysis Runlog For Sequence/QCBatch ID # FB052125

Review By	yogesh	Review On	5/21/2025 2:47:29 PM		
Supervise By	mohammad	Supervise On	5/26/2025 2:21:45 AM		
SubDirectory	FB052125	HP Acquire Method		HP Processing Method	FB051925

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24110,PP24585,PP24586,PP24587,PP24588,PP24589
CCC	PP24598,PP24599,PP24600
Internal Standard/PEM	
ICV/I.BLK	PP24111,PP24590
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	20 PPB GRO STD	FB031797.D	21 May 2025 9:04	YP/AJ	Ok,M
2	VBF0521S1	FB031798.D	21 May 2025 9:44	YP/AJ	Ok
3	VBF0521S2	FB031799.D	21 May 2025 10:12	YP/AJ	Ok
4	BSF0521S1	FB031800.D	21 May 2025 10:40	YP/AJ	Ok,M
5	Q2074-05	FB031801.D	21 May 2025 11:08	YP/AJ	Ok
6	Q2074-07	FB031802.D	21 May 2025 11:35	YP/AJ	Ok
7	Q2074-08	FB031803.D	21 May 2025 12:12	YP/AJ	Ok
8	BSF0521S2	FB031804.D	21 May 2025 12:39	YP/AJ	Ok,M
9	20 PPB GRO STD	FB031805.D	21 May 2025 13:23	YP/AJ	Ok
10	Q2100-01	FB031806.D	21 May 2025 14:34	YP/AJ	Ok
11	Q2100-02	FB031807.D	21 May 2025 15:01	YP/AJ	Ok
12	Q2100-03	FB031808.D	21 May 2025 15:29	YP/AJ	Ok
13	Q2100-04	FB031809.D	21 May 2025 15:57	YP/AJ	Ok
14	BSF0521S3	FB031810.D	21 May 2025 16:25	YP/AJ	Ok,M
15	20 PPB GRO STD	FB031811.D	21 May 2025 16:52	YP/AJ	Ok,M

M : Manual Integration

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Instrument ID: FID_B

Daily Analysis Runlog For Sequence/QCBatch ID # FB051925

Review By	yogesh	Review On	5/19/2025 11:36:03 AM		
Supervise By	mohammad	Supervise On	5/21/2025 5:31:15 AM		
SubDirectory	FB051925	HP Acquire Method		HP Processing Method	FB051925

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24110,PP24585,PP24586,PP24587,PP24588,PP24589
CCC	
Internal Standard/PEM	
ICV/I.BLK	PP24111,PP24590
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	5 GRO STD		FB031773.D	19 May 2025 9:07		YP/AJ	Ok
2	10 GRO STD		FB031774.D	19 May 2025 9:35		YP/AJ	Ok,M
3	20 GRO STD		FB031775.D	19 May 2025 10:03		YP/AJ	Ok
4	50 GRO STD		FB031776.D	19 May 2025 10:31		YP/AJ	Ok,M
5	100 GRO STD		FB031777.D	19 May 2025 10:58		YP/AJ	Ok,M
6	FB051925GROICV		FB031778.D	19 May 2025 11:41		YP/AJ	Ok,M

M : Manual Integration

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Instrument ID: FID_B

Daily Analysis Runlog For Sequence/QCBatch ID # FB052125

Review By	yogesh	Review On	5/21/2025 2:47:29 PM		
Supervise By	mohammad	Supervise On	5/26/2025 2:21:45 AM		
SubDirectory	FB052125	HP Acquire Method		HP Processing Method	FB051925

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24110,PP24585,PP24586,PP24587,PP24588,PP24589
CCC	PP24598,PP24599,PP24600
Internal Standard/PEM	
ICV/I.BLK	PP24111,PP24590
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	20 PPB GRO STD		FB031797.D	21 May 2025 9:04		YP/AJ	Ok,M
2	VBF0521S1		FB031798.D	21 May 2025 9:44		YP/AJ	Ok
3	VBF0521S2		FB031799.D	21 May 2025 10:12		YP/AJ	Ok
4	BSF0521S1		FB031800.D	21 May 2025 10:40		YP/AJ	Ok,M
5	Q2074-05		FB031801.D	21 May 2025 11:08	Vial-C	YP/AJ	Ok
6	Q2074-07		FB031802.D	21 May 2025 11:35	Vial-C	YP/AJ	Ok
7	Q2074-08		FB031803.D	21 May 2025 12:12	Vial-C	YP/AJ	Ok
8	BSF0521S2		FB031804.D	21 May 2025 12:39		YP/AJ	Ok,M
9	20 PPB GRO STD		FB031805.D	21 May 2025 13:23		YP/AJ	Ok
10	Q2100-01		FB031806.D	21 May 2025 14:34	Vial-A	YP/AJ	Ok
11	Q2100-02		FB031807.D	21 May 2025 15:01	Vial-A	YP/AJ	Ok
12	Q2100-03		FB031808.D	21 May 2025 15:29	Vial-A	YP/AJ	Ok
13	Q2100-04		FB031809.D	21 May 2025 15:57	Vial-A	YP/AJ	Ok
14	BSF0521S3		FB031810.D	21 May 2025 16:25		YP/AJ	Ok,M
15	20 PPB GRO STD		FB031811.D	21 May 2025 16:52		YP/AJ	Ok,M

M : Manual Integration

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

LAB CHRONICLE

OrderID:	Q2100	**OrderDate:**	5/20/2025 3:22:00 PM
Client:	CDM Smith	**Project:**	South River WM Replacement
Contact:	Marcie Ann Encinas	**Location:**	L41,VOA Ref. #2 Soil

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2100-01	**TP-16**	**SOIL**			**05/19/25**			**05/20/25**
			Diesel Range Organics	8015D		05/23/25	05/23/25	
			Gasoline Range Organics	8015D			05/21/25	
			Pesticide-TCL	8081B		05/22/25	05/22/25	
			PCB	8082A		05/22/25	05/22/25	
Q2100-02	**TP-22**	**SOIL**			**05/19/25**			**05/20/25**
			Diesel Range Organics	8015D		05/23/25	05/23/25	
			Gasoline Range Organics	8015D			05/21/25	
			Pesticide-TCL	8081B		05/22/25	05/22/25	
			PCB	8082A		05/22/25	05/22/25	
Q2100-03	**TP-21**	**SOIL**			**05/20/25**			**05/20/25**
			Diesel Range Organics	8015D		05/23/25	05/23/25	
			Gasoline Range Organics	8015D			05/21/25	
			PCB	8082A		05/22/25	05/22/25	
			Pesticide-TCL	8081B		05/22/25	05/22/25	
Q2100-04	**TP-45**	**SOIL**			**05/20/25**			**05/20/25**
			Diesel Range Organics	8015D		05/23/25	05/23/25	
			Gasoline Range Organics	8015D			05/21/25	
			PCB	8082A		05/22/25	05/22/25	
			Pesticide-TCL	8081B		05/22/25	05/22/25	

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Hit Summary Sheet
SW-846

SDG No.: Q2100

Client: CDM Smith

Sample ID	Client ID	Matrix	Parameter		Concentration	C	MDL	RDL	Units
Client ID : TP-16									
Q2100-01	TP-16	SOIL	1-Tricosene	*	150.000	J	0	0	ug/Kg
Q2100-01	TP-16	SOIL	2-Pentanone, 4-hydroxy-4-methyl	*	250.000	AB	0	0	ug/Kg
Q2100-01	TP-16	SOIL	Benzophenone	*	340.000	J	0	0	ug/Kg
Q2100-01	TP-16	SOIL	n-Hexadecanoic acid	*	430.000	J	0	0	ug/Kg
Q2100-01	TP-16	SOIL	Squalene	*	230.000	J	0	0	ug/Kg
			Total Tics :		**1,400.00**				
			Total Concentration:		**1,400.00**				
Client ID : TP-22									
Q2100-02	TP-22	SOIL	.alpha.-Amyrone	*	460.000	J	0	0	ug/Kg
Q2100-02	TP-22	SOIL	24-Norursa-3,12-diene	*	430.000	J	0	0	ug/Kg
Q2100-02	TP-22	SOIL	2H-Cyclopropa[a]naphthalen-2-or	*	170.000	J	0	0	ug/Kg
Q2100-02	TP-22	SOIL	2-Pentanone, 4-hydroxy-4-methyl	*	230.000	AB	0	0	ug/Kg
Q2100-02	TP-22	SOIL	Anthracene, 9-(2-propenyl)-	*	130.000	J	0	0	ug/Kg
Q2100-02	TP-22	SOIL	Benzophenone	*	200.000	J	0	0	ug/Kg
Q2100-02	TP-22	SOIL	Heptacosyl pentafluoropropionate	*	150.000	J	0	0	ug/Kg
Q2100-02	TP-22	SOIL	Hexathiane	*	140.000	J	0	0	ug/Kg
Q2100-02	TP-22	SOIL	n-Hexadecanoic acid	*	200.000	J	0	0	ug/Kg
			Total Tics :		**2,110.00**				
			Total Concentration:		**2,110.00**				
Client ID : TP-21									
Q2100-03	TP-21	SOIL	Fluoranthene		120.000	J	38.3	220	ug/Kg
			Total Svoc :		**120.00**				
Q2100-03	TP-21	SOIL	2-Pentanone, 4-hydroxy-4-methyl	*	210.000	AB	0	0	ug/Kg
Q2100-03	TP-21	SOIL	3-Eicosene, (E)-	*	170.000	J	0	0	ug/Kg
Q2100-03	TP-21	SOIL	Benzophenone	*	170.000	J	0	0	ug/Kg
Q2100-03	TP-21	SOIL	n-Hexadecanoic acid	*	200.000	J	0	0	ug/Kg
Q2100-03	TP-21	SOIL	unknown12.869	*	99.700	J	0	0	ug/Kg
			Total Tics :		**849.70**				
			Total Concentration:		**969.70**				
Client ID : TP-45									
Q2100-04	TP-45	SOIL	2-Pentanone, 4-hydroxy-4-methyl	*	400.000	AB	0	0	ug/Kg
Q2100-04	TP-45	SOIL	Benzophenone	*	330.000	J	0	0	ug/Kg
Q2100-04	TP-45	SOIL	Heptacosane	*	130.000	J	0	0	ug/Kg
Q2100-04	TP-45	SOIL	Heptadecyl trifluoroacetate	*	320.000	J	0	0	ug/Kg
Q2100-04	TP-45	SOIL	Hexacosane	*	130.000	J	0	0	ug/Kg
Q2100-04	TP-45	SOIL	n-Hexadecanoic acid	*	590.000	J	0	0	ug/Kg

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Hit Summary Sheet
SW-846

SDG No.: Q2100

Client: CDM Smith

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Q2100-04	TP-45	SOIL	Octadecanoic acid	* 180.000	J	0	0	ug/Kg
Q2100-04	TP-45	SOIL	Tetratetracontane	* 94.800	J	0	0	ug/Kg
Q2100-04	TP-45	SOIL	unknown16.827	* 150.000	J	0	0	ug/Kg
			Total Tics :	**2,324.80**				
			Total Concentration:	**2,324.80**				

SAMPLE DATA

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

Report of Analysis

Client:	CDM Smith	Date Collected:	05/19/25
Project:	South River WM Replacement	Date Received:	05/20/25
Client Sample ID:	TP-16	SDG No.:	Q2100
Lab Sample ID:	Q2100-01	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	88.4
Sample Wt/Vol:	30.07 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
BF142537.D	1	05/22/25 09:00	05/23/25 16:05	PB168126

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	180	U	180	370	ug/Kg
108-95-2	Phenol	24.9	U	24.9	190	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	27.4	U	27.4	190	ug/Kg
95-57-8	2-Chlorophenol	27.5	U	27.5	190	ug/Kg
95-48-7	2-Methylphenol	33.7	U	33.7	190	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	42.3	U	42.3	190	ug/Kg
98-86-2	Acetophenone	33.3	U	33.3	190	ug/Kg
65794-96-9	3+4-Methylphenols	46.4	U	46.4	370	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	53.5	U	53.5	90.3	ug/Kg
67-72-1	Hexachloroethane	19.9	U	19.9	190	ug/Kg
98-95-3	Nitrobenzene	20.7	U	20.7	190	ug/Kg
78-59-1	Isophorone	37.0	U	37.0	190	ug/Kg
88-75-5	2-Nitrophenol	65.7	U	65.7	190	ug/Kg
105-67-9	2,4-Dimethylphenol	73.1	U	73.1	190	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	34.8	U	34.8	190	ug/Kg
120-83-2	2,4-Dichlorophenol	31.9	U	31.9	190	ug/Kg
91-20-3	Naphthalene	25.6	U	25.6	190	ug/Kg
106-47-8	4-Chloroaniline	40.0	U	40.0	190	ug/Kg
87-68-3	Hexachlorobutadiene	28.6	U	28.6	190	ug/Kg
105-60-2	Caprolactam	58.8	U	58.8	370	ug/Kg
59-50-7	4-Chloro-3-methylphenol	32.4	U	32.4	190	ug/Kg
91-57-6	2-Methylnaphthalene	28.9	U	28.9	190	ug/Kg
77-47-4	Hexachlorocyclopentadiene	130	U	130	370	ug/Kg
88-06-2	2,4,6-Trichlorophenol	22.3	U	22.3	190	ug/Kg
95-95-4	2,4,5-Trichlorophenol	32.8	U	32.8	190	ug/Kg
92-52-4	1,1-Biphenyl	24.6	U	24.6	190	ug/Kg
91-58-7	2-Chloronaphthalene	25.4	U	25.4	190	ug/Kg
88-74-4	2-Nitroaniline	54.3	U	54.3	190	ug/Kg
131-11-3	Dimethylphthalate	30.6	U	30.6	190	ug/Kg

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

Report of Analysis

Client:	CDM Smith	Date Collected:	05/19/25
Project:	South River WM Replacement	Date Received:	05/20/25
Client Sample ID:	TP-16	SDG No.:	Q2100
Lab Sample ID:	Q2100-01	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	88.4
Sample Wt/Vol:	30.07 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
BF142537.D	1	05/22/25 09:00	05/23/25 16:05	PB168126

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	32.6	U	32.6	190	ug/Kg
606-20-2	2,6-Dinitrotoluene	37.9	U	37.9	190	ug/Kg
99-09-2	3-Nitroaniline	51.9	U	51.9	190	ug/Kg
83-32-9	Acenaphthene	24.0	U	24.0	190	ug/Kg
51-28-5	2,4-Dinitrophenol	260	U	260	370	ug/Kg
100-02-7	4-Nitrophenol	120	U	120	370	ug/Kg
132-64-9	Dibenzofuran	25.6	U	25.6	190	ug/Kg
121-14-2	2,4-Dinitrotoluene	56.5	U	56.5	190	ug/Kg
84-66-2	Diethylphthalate	31.9	U	31.9	190	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	30.1	U	30.1	190	ug/Kg
86-73-7	Fluorene	28.6	U	28.6	190	ug/Kg
100-01-6	4-Nitroaniline	72.5	U	72.5	190	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	120	U	120	370	ug/Kg
86-30-6	n-Nitrosodiphenylamine	37.1	U	37.1	190	ug/Kg
101-55-3	4-Bromophenyl-phenylether	31.4	U	31.4	190	ug/Kg
118-74-1	Hexachlorobenzene	28.6	U	28.6	190	ug/Kg
1912-24-9	Atrazine	38.4	U	38.4	190	ug/Kg
87-86-5	Pentachlorophenol	57.9	U	57.9	370	ug/Kg
85-01-8	Phenanthrene	23.6	U	23.6	190	ug/Kg
120-12-7	Anthracene	37.6	U	37.6	190	ug/Kg
86-74-8	Carbazole	35.2	U	35.2	190	ug/Kg
84-74-2	Di-n-butylphthalate	54.1	U	54.1	190	ug/Kg
206-44-0	Fluoranthene	33.9	U	33.9	190	ug/Kg
129-00-0	Pyrene	40.6	U	40.6	190	ug/Kg
85-68-7	Butylbenzylphthalate	80.6	U	80.6	190	ug/Kg
91-94-1	3,3-Dichlorobenzidine	41.4	UQ	41.4	370	ug/Kg
56-55-3	Benzo(a)anthracene	26.0	U	26.0	190	ug/Kg
218-01-9	Chrysene	22.5	U	22.5	190	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	66.8	U	66.8	190	ug/Kg
117-84-0	Di-n-octyl phthalate	98.0	U	98.0	370	ug/Kg
205-99-2	Benzo(b)fluoranthene	21.4	U	21.4	190	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	05/19/25
Project:	South River WM Replacement	Date Received:	05/20/25
Client Sample ID:	TP-16	SDG No.:	Q2100
Lab Sample ID:	Q2100-01	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	88.4
Sample Wt/Vol:	30.07 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
BF142537.D	1	05/22/25 09:00	05/23/25 16:05	PB168126

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	25.3	U	25.3	190	ug/Kg
50-32-8	Benzo(a)pyrene	33.3	U	33.3	190	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	32.8	U	32.8	190	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	30.9	U	30.9	190	ug/Kg
191-24-2	Benzo(g,h,i)perylene	29.0	U	29.0	190	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	28.9	U	28.9	190	ug/Kg
123-91-1	1,4-Dioxane	51.0	U	51.0	190	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	30.9	U	30.9	190	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	82.1		18 - 112	55%	SPK: 150
13127-88-3	Phenol-d6	84.1		15 - 107	56%	SPK: 150
4165-60-0	Nitrobenzene-d5	51.7		18 - 107	52%	SPK: 100
321-60-8	2-Fluorobiphenyl	50.1		20 - 109	50%	SPK: 100
118-79-6	2,4,6-Tribromophenol	81.5		10 - 116	54%	SPK: 150
1718-51-0	Terphenyl-d14	47.5		10 - 105	48%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	114000	6.898			
1146-65-2	Naphthalene-d8	436000	8.181			
15067-26-2	Acenaphthene-d10	234000	9.933			
1517-22-2	Phenanthrene-d10	387000	11.422			
1719-03-5	Chrysene-d12	212000	14.063			
1520-96-3	Perylene-d12	223000	15.557			
TENTATIVE IDENTIFIED COMPOUNDS						
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	250	AB		5.12	ug/Kg
000119-61-9	Benzophenone	340	J		10.6	ug/Kg
000057-10-3	n-Hexadecanoic acid	430	J		11.9	ug/Kg
018835-32-0	1-Tricosene	150	J		13.9	ug/Kg
000111-02-4	Squalene	230	J		14.9	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	05/19/25
Project:	South River WM Replacement	Date Received:	05/20/25
Client Sample ID:	TP-16	SDG No.:	Q2100
Lab Sample ID:	Q2100-01	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	88.4
Sample Wt/Vol:	30.07 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
BF142537.D	1	05/22/25 09:00	05/23/25 16:05	PB168126

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:	CDM Smith	Date Collected:	05/19/25
Project:	South River WM Replacement	Date Received:	05/20/25
Client Sample ID:	TP-22	SDG No.:	Q2100
Lab Sample ID:	Q2100-02	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	84
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
BF142536.D	1	05/22/25 09:00	05/23/25 15:37	PB168126

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	190	U	190	390	ug/Kg
108-95-2	Phenol	26.2	U	26.2	200	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	28.8	U	28.8	200	ug/Kg
95-57-8	2-Chlorophenol	29.0	U	29.0	200	ug/Kg
95-48-7	2-Methylphenol	35.5	U	35.5	200	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	44.5	U	44.5	200	ug/Kg
98-86-2	Acetophenone	35.0	U	35.0	200	ug/Kg
65794-96-9	3+4-Methylphenols	48.8	U	48.8	390	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	56.3	U	56.3	95.0	ug/Kg
67-72-1	Hexachloroethane	20.9	U	20.9	200	ug/Kg
98-95-3	Nitrobenzene	21.7	U	21.7	200	ug/Kg
78-59-1	Isophorone	38.9	U	38.9	200	ug/Kg
88-75-5	2-Nitrophenol	69.1	U	69.1	200	ug/Kg
105-67-9	2,4-Dimethylphenol	76.9	U	76.9	200	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	36.6	U	36.6	200	ug/Kg
120-83-2	2,4-Dichlorophenol	33.6	U	33.6	200	ug/Kg
91-20-3	Naphthalene	26.9	U	26.9	200	ug/Kg
106-47-8	4-Chloroaniline	42.0	U	42.0	200	ug/Kg
87-68-3	Hexachlorobutadiene	30.0	U	30.0	200	ug/Kg
105-60-2	Caprolactam	61.8	U	61.8	390	ug/Kg
59-50-7	4-Chloro-3-methylphenol	34.1	U	34.1	200	ug/Kg
91-57-6	2-Methylnaphthalene	30.4	U	30.4	200	ug/Kg
77-47-4	Hexachlorocyclopentadiene	140	U	140	390	ug/Kg
88-06-2	2,4,6-Trichlorophenol	23.5	U	23.5	200	ug/Kg
95-95-4	2,4,5-Trichlorophenol	34.5	U	34.5	200	ug/Kg
92-52-4	1,1-Biphenyl	25.9	U	25.9	200	ug/Kg
91-58-7	2-Chloronaphthalene	26.7	U	26.7	200	ug/Kg
88-74-4	2-Nitroaniline	57.1	U	57.1	200	ug/Kg
131-11-3	Dimethylphthalate	32.2	U	32.2	200	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	05/19/25
Project:	South River WM Replacement	Date Received:	05/20/25
Client Sample ID:	TP-22	SDG No.:	Q2100
Lab Sample ID:	Q2100-02	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	84
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
BF142536.D	1	05/22/25 09:00	05/23/25 15:37	PB168126

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	34.3	U	34.3	200	ug/Kg
606-20-2	2,6-Dinitrotoluene	39.9	U	39.9	200	ug/Kg
99-09-2	3-Nitroaniline	54.6	U	54.6	200	ug/Kg
83-32-9	Acenaphthene	25.3	U	25.3	200	ug/Kg
51-28-5	2,4-Dinitrophenol	270	U	270	390	ug/Kg
100-02-7	4-Nitrophenol	130	U	130	390	ug/Kg
132-64-9	Dibenzofuran	26.9	U	26.9	200	ug/Kg
121-14-2	2,4-Dinitrotoluene	59.5	U	59.5	200	ug/Kg
84-66-2	Diethylphthalate	33.6	U	33.6	200	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	31.7	U	31.7	200	ug/Kg
86-73-7	Fluorene	30.0	U	30.0	200	ug/Kg
100-01-6	4-Nitroaniline	76.2	U	76.2	200	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	120	U	120	390	ug/Kg
86-30-6	n-Nitrosodiphenylamine	39.0	U	39.0	200	ug/Kg
101-55-3	4-Bromophenyl-phenylether	33.0	U	33.0	200	ug/Kg
118-74-1	Hexachlorobenzene	30.0	U	30.0	200	ug/Kg
1912-24-9	Atrazine	40.4	U	40.4	200	ug/Kg
87-86-5	Pentachlorophenol	60.9	U	60.9	390	ug/Kg
85-01-8	Phenanthrene	24.8	U	24.8	200	ug/Kg
120-12-7	Anthracene	39.5	U	39.5	200	ug/Kg
86-74-8	Carbazole	37.0	U	37.0	200	ug/Kg
84-74-2	Di-n-butylphthalate	56.9	U	56.9	200	ug/Kg
206-44-0	Fluoranthene	35.6	U	35.6	200	ug/Kg
129-00-0	Pyrene	42.7	U	42.7	200	ug/Kg
85-68-7	Butylbenzylphthalate	84.7	U	84.7	200	ug/Kg
91-94-1	3,3-Dichlorobenzidine	43.6	UQ	43.6	390	ug/Kg
56-55-3	Benzo(a)anthracene	27.3	U	27.3	200	ug/Kg
218-01-9	Chrysene	23.6	U	23.6	200	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	70.3	U	70.3	200	ug/Kg
117-84-0	Di-n-octyl phthalate	100	U	100	390	ug/Kg
205-99-2	Benzo(b)fluoranthene	22.6	U	22.6	200	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	05/19/25
Project:	South River WM Replacement	Date Received:	05/20/25
Client Sample ID:	TP-22	SDG No.:	Q2100
Lab Sample ID:	Q2100-02	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	84
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
BF142536.D	1	05/22/25 09:00	05/23/25 15:37	PB168126

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	26.6	U	26.6	200	ug/Kg
50-32-8	Benzo(a)pyrene	35.0	U	35.0	200	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	34.5	U	34.5	200	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	32.5	U	32.5	200	ug/Kg
191-24-2	Benzo(g,h,i)perylene	30.5	U	30.5	200	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	30.4	U	30.4	200	ug/Kg
123-91-1	1,4-Dioxane	53.6	U	53.6	200	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	32.5	U	32.5	200	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	72.1		18 - 112	48%	SPK: 150
13127-88-3	Phenol-d6	73.6		15 - 107	49%	SPK: 150
4165-60-0	Nitrobenzene-d5	44.7		18 - 107	45%	SPK: 100
321-60-8	2-Fluorobiphenyl	43.1		20 - 109	43%	SPK: 100
118-79-6	2,4,6-Tribromophenol	69.5		10 - 116	46%	SPK: 150
1718-51-0	Terphenyl-d14	42.8		10 - 105	43%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	111000	6.898			
1146-65-2	Naphthalene-d8	430000	8.181			
15067-26-2	Acenaphthene-d10	234000	9.933			
1517-22-2	Phenanthrene-d10	390000	11.422			
1719-03-5	Chrysene-d12	216000	14.063			
1520-96-3	Perylene-d12	220000	15.557			
TENTATIVE IDENTIFIED COMPOUNDS						
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	230	AB		5.11	ug/Kg
013798-23-7	Hexathiane	140	J		10.3	ug/Kg
000119-61-9	Benzophenone	200	J		10.6	ug/Kg
000057-10-3	n-Hexadecanoic acid	200	J		11.9	ug/Kg
1000351-81-6	Heptacosyl pentafluoropropionate	150	J		13.9	ug/Kg
006831-17-0	2H-Cyclopropa[a]naphthalen-2-one,	170	J		17.9	ug/Kg
023707-65-5	Anthracene, 9-(2-propenyl)-	130	J		18.2	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	05/19/25
Project:	South River WM Replacement	Date Received:	05/20/25
Client Sample ID:	TP-22	SDG No.:	Q2100
Lab Sample ID:	Q2100-02	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	84
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
BF142536.D	1	05/22/25 09:00	05/23/25 15:37	PB168126

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
000638-96-0	.alpha.-Amyrone	460	J		18.3	ug/Kg
201358-25-0	24-Norursa-3,12-diene	430	J		18.6	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:	CDM Smith	Date Collected:	05/20/25
Project:	South River WM Replacement	Date Received:	05/20/25
Client Sample ID:	TP-21	SDG No.:	Q2100
Lab Sample ID:	Q2100-03	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	78.2
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
BF142547.D	1	05/22/25 09:00	05/23/25 20:53	PB168126

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	200	U	200	420	ug/Kg
108-95-2	Phenol	28.2	U	28.2	220	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	31.1	U	31.1	220	ug/Kg
95-57-8	2-Chlorophenol	31.2	U	31.2	220	ug/Kg
95-48-7	2-Methylphenol	38.2	U	38.2	220	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	47.9	U	47.9	220	ug/Kg
98-86-2	Acetophenone	37.7	U	37.7	220	ug/Kg
65794-96-9	3+4-Methylphenols	52.5	U	52.5	420	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	60.6	U	60.6	100	ug/Kg
67-72-1	Hexachloroethane	22.5	U	22.5	220	ug/Kg
98-95-3	Nitrobenzene	23.4	U	23.4	220	ug/Kg
78-59-1	Isophorone	41.9	U	41.9	220	ug/Kg
88-75-5	2-Nitrophenol	74.4	U	74.4	220	ug/Kg
105-67-9	2,4-Dimethylphenol	82.8	U	82.8	220	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	39.4	U	39.4	220	ug/Kg
120-83-2	2,4-Dichlorophenol	36.2	U	36.2	220	ug/Kg
91-20-3	Naphthalene	29.0	U	29.0	220	ug/Kg
106-47-8	4-Chloroaniline	45.2	U	45.2	220	ug/Kg
87-68-3	Hexachlorobutadiene	32.3	U	32.3	220	ug/Kg
105-60-2	Caprolactam	66.6	U	66.6	420	ug/Kg
59-50-7	4-Chloro-3-methylphenol	36.7	U	36.7	220	ug/Kg
91-57-6	2-Methylnaphthalene	32.7	U	32.7	220	ug/Kg
77-47-4	Hexachlorocyclopentadiene	150	U	150	420	ug/Kg
88-06-2	2,4,6-Trichlorophenol	25.3	U	25.3	220	ug/Kg
95-95-4	2,4,5-Trichlorophenol	37.2	U	37.2	220	ug/Kg
92-52-4	1,1-Biphenyl	27.9	U	27.9	220	ug/Kg
91-58-7	2-Chloronaphthalene	28.8	U	28.8	220	ug/Kg
88-74-4	2-Nitroaniline	61.5	U	61.5	220	ug/Kg
131-11-3	Dimethylphthalate	34.6	U	34.6	220	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	05/20/25
Project:	South River WM Replacement	Date Received:	05/20/25
Client Sample ID:	TP-21	SDG No.:	Q2100
Lab Sample ID:	Q2100-03	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	78.2
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
BF142547.D	1	05/22/25 09:00	05/23/25 20:53	PB168126

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	36.9	U	36.9	220	ug/Kg
606-20-2	2,6-Dinitrotoluene	42.9	U	42.9	220	ug/Kg
99-09-2	3-Nitroaniline	58.8	U	58.8	220	ug/Kg
83-32-9	Acenaphthene	27.2	U	27.2	220	ug/Kg
51-28-5	2,4-Dinitrophenol	290	U	290	420	ug/Kg
100-02-7	4-Nitrophenol	140	U	140	420	ug/Kg
132-64-9	Dibenzofuran	29.0	U	29.0	220	ug/Kg
121-14-2	2,4-Dinitrotoluene	64.0	U	64.0	220	ug/Kg
84-66-2	Diethylphthalate	36.2	U	36.2	220	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	34.1	U	34.1	220	ug/Kg
86-73-7	Fluorene	32.3	U	32.3	220	ug/Kg
100-01-6	4-Nitroaniline	82.0	U	82.0	220	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	130	U	130	420	ug/Kg
86-30-6	n-Nitrosodiphenylamine	42.0	U	42.0	220	ug/Kg
101-55-3	4-Bromophenyl-phenylether	35.5	U	35.5	220	ug/Kg
118-74-1	Hexachlorobenzene	32.3	U	32.3	220	ug/Kg
1912-24-9	Atrazine	43.4	U	43.4	220	ug/Kg
87-86-5	Pentachlorophenol	65.6	U	65.6	420	ug/Kg
85-01-8	Phenanthrene	26.7	U	26.7	220	ug/Kg
120-12-7	Anthracene	42.6	U	42.6	220	ug/Kg
86-74-8	Carbazole	39.9	U	39.9	220	ug/Kg
84-74-2	Di-n-butylphthalate	61.2	U	61.2	220	ug/Kg
206-44-0	Fluoranthene	120	J	38.3	220	ug/Kg
129-00-0	Pyrene	46.0	U	46.0	220	ug/Kg
85-68-7	Butylbenzylphthalate	91.2	U	91.2	220	ug/Kg
91-94-1	3,3-Dichlorobenzidine	46.9	UQ	46.9	420	ug/Kg
56-55-3	Benzo(a)anthracene	29.4	U	29.4	220	ug/Kg
218-01-9	Chrysene	25.4	U	25.4	220	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	75.7	U	75.7	220	ug/Kg
117-84-0	Di-n-octyl phthalate	110	U	110	420	ug/Kg
205-99-2	Benzo(b)fluoranthene	24.3	U	24.3	220	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	05/20/25
Project:	South River WM Replacement	Date Received:	05/20/25
Client Sample ID:	TP-21	SDG No.:	Q2100
Lab Sample ID:	Q2100-03	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	78.2
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
BF142547.D	1	05/22/25 09:00	05/23/25 20:53	PB168126

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	28.6	U	28.6	220	ug/Kg
50-32-8	Benzo(a)pyrene	37.7	U	37.7	220	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	37.2	U	37.2	220	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	35.0	U	35.0	220	ug/Kg
191-24-2	Benzo(g,h,i)perylene	32.8	U	32.8	220	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	32.7	U	32.7	220	ug/Kg
123-91-1	1,4-Dioxane	57.8	U	57.8	220	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	35.0	U	35.0	220	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	58.8		18 - 112	39%	SPK: 150
13127-88-3	Phenol-d6	57.6		15 - 107	38%	SPK: 150
4165-60-0	Nitrobenzene-d5	37.1		18 - 107	37%	SPK: 100
321-60-8	2-Fluorobiphenyl	41.6		20 - 109	42%	SPK: 100
118-79-6	2,4,6-Tribromophenol	53.8		10 - 116	36%	SPK: 150
1718-51-0	Terphenyl-d14	27.2		10 - 105	27%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	106000	6.898			
1146-65-2	Naphthalene-d8	353000	8.181			
15067-26-2	Acenaphthene-d10	144000	9.933			
1517-22-2	Phenanthrene-d10	233000	11.422			
1719-03-5	Chrysene-d12	236000	14.068			
1520-96-3	Perylene-d12	174000	15.563			
TENTATIVE IDENTIFIED COMPOUNDS						
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	210	AB		5.11	ug/Kg
000119-61-9	Benzophenone	170	J		10.6	ug/Kg
000057-10-3	n-Hexadecanoic acid	200	J		11.9	ug/Kg
	unknown12.869	99.7	J		12.9	ug/Kg
074685-33-9	3-Eicosene, (E)-	170	J		13.9	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	05/20/25
Project:	South River WM Replacement	Date Received:	05/20/25
Client Sample ID:	TP-21	SDG No.:	Q2100
Lab Sample ID:	Q2100-03	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	78.2
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
BF142547.D	1	05/22/25 09:00	05/23/25 20:53	PB168126

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:	CDM Smith	Date Collected:	05/20/25
Project:	South River WM Replacement	Date Received:	05/20/25
Client Sample ID:	TP-45	SDG No.:	Q2100
Lab Sample ID:	Q2100-04	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	76.2
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
BF142530.D	1	05/22/25 09:00	05/23/25 12:43	PB168126

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	200	U	200	430	ug/Kg
108-95-2	Phenol	29.0	U	29.0	220	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	31.8	U	31.8	220	ug/Kg
95-57-8	2-Chlorophenol	32.0	U	32.0	220	ug/Kg
95-48-7	2-Methylphenol	39.2	U	39.2	220	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	49.1	U	49.1	220	ug/Kg
98-86-2	Acetophenone	38.6	U	38.6	220	ug/Kg
65794-96-9	3+4-Methylphenols	53.8	U	53.8	430	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	62.1	U	62.1	100	ug/Kg
67-72-1	Hexachloroethane	23.1	U	23.1	220	ug/Kg
98-95-3	Nitrobenzene	24.0	U	24.0	220	ug/Kg
78-59-1	Isophorone	43.0	U	43.0	220	ug/Kg
88-75-5	2-Nitrophenol	76.3	U	76.3	220	ug/Kg
105-67-9	2,4-Dimethylphenol	84.9	U	84.9	220	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	40.4	U	40.4	220	ug/Kg
120-83-2	2,4-Dichlorophenol	37.1	U	37.1	220	ug/Kg
91-20-3	Naphthalene	29.7	U	29.7	220	ug/Kg
106-47-8	4-Chloroaniline	46.4	U	46.4	220	ug/Kg
87-68-3	Hexachlorobutadiene	33.1	U	33.1	220	ug/Kg
105-60-2	Caprolactam	68.3	U	68.3	430	ug/Kg
59-50-7	4-Chloro-3-methylphenol	37.6	U	37.6	220	ug/Kg
91-57-6	2-Methylnaphthalene	33.5	U	33.5	220	ug/Kg
77-47-4	Hexachlorocyclopentadiene	150	U	150	430	ug/Kg
88-06-2	2,4,6-Trichlorophenol	25.9	U	25.9	220	ug/Kg
95-95-4	2,4,5-Trichlorophenol	38.1	U	38.1	220	ug/Kg
92-52-4	1,1-Biphenyl	28.6	U	28.6	220	ug/Kg
91-58-7	2-Chloronaphthalene	29.5	U	29.5	220	ug/Kg
88-74-4	2-Nitroaniline	63.0	U	63.0	220	ug/Kg
131-11-3	Dimethylphthalate	35.5	U	35.5	220	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	05/20/25
Project:	South River WM Replacement	Date Received:	05/20/25
Client Sample ID:	TP-45	SDG No.:	Q2100
Lab Sample ID:	Q2100-04	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	76.2
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
BF142530.D	1	05/22/25 09:00	05/23/25 12:43	PB168126

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	37.9	U	37.9	220	ug/Kg
606-20-2	2,6-Dinitrotoluene	44.0	U	44.0	220	ug/Kg
99-09-2	3-Nitroaniline	60.3	U	60.3	220	ug/Kg
83-32-9	Acenaphthene	27.9	U	27.9	220	ug/Kg
51-28-5	2,4-Dinitrophenol	300	U	300	430	ug/Kg
100-02-7	4-Nitrophenol	140	U	140	430	ug/Kg
132-64-9	Dibenzofuran	29.7	U	29.7	220	ug/Kg
121-14-2	2,4-Dinitrotoluene	65.6	U	65.6	220	ug/Kg
84-66-2	Diethylphthalate	37.1	U	37.1	220	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	35.0	U	35.0	220	ug/Kg
86-73-7	Fluorene	33.1	U	33.1	220	ug/Kg
100-01-6	4-Nitroaniline	84.1	U	84.1	220	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	130	U	130	430	ug/Kg
86-30-6	n-Nitrosodiphenylamine	43.1	U	43.1	220	ug/Kg
101-55-3	4-Bromophenyl-phenylether	36.4	U	36.4	220	ug/Kg
118-74-1	Hexachlorobenzene	33.1	U	33.1	220	ug/Kg
1912-24-9	Atrazine	44.5	U	44.5	220	ug/Kg
87-86-5	Pentachlorophenol	67.2	U	67.2	430	ug/Kg
85-01-8	Phenanthrene	27.4	U	27.4	220	ug/Kg
120-12-7	Anthracene	43.6	U	43.6	220	ug/Kg
86-74-8	Carbazole	40.9	U	40.9	220	ug/Kg
84-74-2	Di-n-butylphthalate	62.8	U	62.8	220	ug/Kg
206-44-0	Fluoranthene	39.3	U	39.3	220	ug/Kg
129-00-0	Pyrene	47.2	U	47.2	220	ug/Kg
85-68-7	Butylbenzylphthalate	93.5	U	93.5	220	ug/Kg
91-94-1	3,3-Dichlorobenzidine	48.1	UQ	48.1	430	ug/Kg
56-55-3	Benzo(a)anthracene	30.1	U	30.1	220	ug/Kg
218-01-9	Chrysene	26.1	U	26.1	220	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	77.6	U	77.6	220	ug/Kg
117-84-0	Di-n-octyl phthalate	110	U	110	430	ug/Kg
205-99-2	Benzo(b)fluoranthene	24.9	U	24.9	220	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	05/20/25
Project:	South River WM Replacement	Date Received:	05/20/25
Client Sample ID:	TP-45	SDG No.:	Q2100
Lab Sample ID:	Q2100-04	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	76.2
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
BF142530.D	1	05/22/25 09:00	05/23/25 12:43	PB168126

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	29.3	U	29.3	220	ug/Kg
50-32-8	Benzo(a)pyrene	38.6	U	38.6	220	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	38.1	U	38.1	220	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	35.9	U	35.9	220	ug/Kg
191-24-2	Benzo(g,h,i)perylene	33.7	U	33.7	220	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	33.5	U	33.5	220	ug/Kg
123-91-1	1,4-Dioxane	59.2	U	59.2	220	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	35.9	U	35.9	220	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	105		18 - 112	70%	SPK: 150
13127-88-3	Phenol-d6	109		15 - 107	72%	SPK: 150
4165-60-0	Nitrobenzene-d5	66.9		18 - 107	67%	SPK: 100
321-60-8	2-Fluorobiphenyl	61.7		20 - 109	62%	SPK: 100
118-79-6	2,4,6-Tribromophenol	114		10 - 116	76%	SPK: 150
1718-51-0	Terphenyl-d14	58.3		10 - 105	58%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	119000	6.898			
1146-65-2	Naphthalene-d8	456000	8.181			
15067-26-2	Acenaphthene-d10	248000	9.933			
1517-22-2	Phenanthrene-d10	426000	11.422			
1719-03-5	Chrysene-d12	252000	14.063			
1520-96-3	Perylene-d12	226000	15.557			
TENTATIVE IDENTIFIED COMPOUNDS						
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	400	AB		5.12	ug/Kg
000119-61-9	Benzophenone	330	J		10.7	ug/Kg
000057-10-3	n-Hexadecanoic acid	590	J		11.9	ug/Kg
000057-11-4	Octadecanoic acid	180	J		12.7	ug/Kg
000630-01-3	Hexacosane	130	J		12.9	ug/Kg
000593-49-7	Heptacosane	130	J		13.6	ug/Kg
1010351-87-0	Heptadecyl trifluoroacetate	320	J		13.9	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	05/20/25
Project:	South River WM Replacement	Date Received:	05/20/25
Client Sample ID:	TP-45	SDG No.:	Q2100
Lab Sample ID:	Q2100-04	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	76.2
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
BF142530.D	1	05/22/25 09:00	05/23/25 12:43	PB168126

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
007098-22-8	Tetratetracontane	94.8	J		14.2	ug/Kg
	unknown16.827	150	J		16.8	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

QC SUMMARY

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

SW-846

SDG No.: Q2100

Client: CDM Smith

Analytical Method: 8270E

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
PB168126BL	PB168126BL	2-Fluorophenol	150	123	82		18	112
		Phenol-d6	150	123	82		15	107
		Nitrobenzene-d5	100	77.1	77		18	107
		2-Fluorobiphenyl	100	73.6	74		20	109
		2,4,6-Tribromophenol	150	130	87		10	116
		Terphenyl-d14	100	65.7	66		10	105
PB168126BS	PB168126BS	2-Fluorophenol	150	120	80		18	112
		Phenol-d6	150	122	82		15	107
		Nitrobenzene-d5	100	74.3	74		18	107
		2-Fluorobiphenyl	100	70.0	70		20	109
		2,4,6-Tribromophenol	150	124	83		10	116
		Terphenyl-d14	100	74.4	74		10	105
Q2100-01	TP-16	2-Fluorophenol	150	82.1	55		18	112
		Phenol-d6	150	84.1	56		15	107
		Nitrobenzene-d5	100	51.7	52		18	107
		2-Fluorobiphenyl	100	50.1	50		20	109
		2,4,6-Tribromophenol	150	81.5	54		10	116
		Terphenyl-d14	100	47.5	48		10	105
Q2100-02	TP-22	2-Fluorophenol	150	72.1	48		18	112
		Phenol-d6	150	73.6	49		15	107
		Nitrobenzene-d5	100	44.7	45		18	107
		2-Fluorobiphenyl	100	43.1	43		20	109
		2,4,6-Tribromophenol	150	69.5	46		10	116
		Terphenyl-d14	100	42.8	43		10	105
Q2100-03	TP-21	2-Fluorophenol	150	58.8	39		18	112
		Phenol-d6	150	57.6	38		15	107
		Nitrobenzene-d5	100	37.1	37		18	107
		2-Fluorobiphenyl	100	41.6	42		20	109
		2,4,6-Tribromophenol	150	53.8	36		10	116
		Terphenyl-d14	100	27.2	27		10	105
Q2100-04	TP-45	2-Fluorophenol	150	105	70		18	112
		Phenol-d6	150	109	72		15	107
		Nitrobenzene-d5	100	66.9	67		18	107
		2-Fluorobiphenyl	100	61.7	62		20	109
		2,4,6-Tribromophenol	150	114	76		10	116
		Terphenyl-d14	100	58.3	58		10	105
Q2100-04MS	TP-45MS	2-Fluorophenol	150	93.8	63		18	112
		Phenol-d6	150	98.1	65		15	107
		Nitrobenzene-d5	100	60.2	60		18	107
		2-Fluorobiphenyl	100	57.3	57		20	109
		2,4,6-Tribromophenol	150	102	68		10	116
		Terphenyl-d14	100	56.4	56		10	105
Q2100-04MSD	TP-45MSD	2-Fluorophenol	150	96.7	64		18	112
		Phenol-d6	150	101	67		15	107
		Nitrobenzene-d5	100	60.9	61		18	107
		2-Fluorobiphenyl	100	58.4	58		20	109
		2,4,6-Tribromophenol	150	103	69		10	116
		Terphenyl-d14	100	55.8	56		10	105

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q2100

Client: CDM Smith

Analytical Method: SW8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Lab Sample ID: Q2100-04MS		**Client Sample ID: TP-45MS**						**DataFile: BF142531.D**			
Benzaldehyde	2200	0	1700	ug/Kg	77				10	86	
Phenol	2200	0	1800	ug/Kg	82				67	126	
bis(2-Chloroethyl)ether	2200	0	1800	ug/Kg	82				54	125	
2-Chlorophenol	2200	0	1800	ug/Kg	82				79	107	
2-Methylphenol	2200	0	1800	ug/Kg	82				66	122	
2,2-oxybis(1-Chloropropane)	2200	0	1800	ug/Kg	82				65	110	
Acetophenone	2200	0	1800	ug/Kg	82				75	111	
3+4-Methylphenols	2200	0	1800	ug/Kg	82				66	104	
N-Nitroso-di-n-propylamine	2200	0	1800	ug/Kg	82				59	119	
Hexachloroethane	2200	0	1800	ug/Kg	82				65	117	
Nitrobenzene	2200	0	1900	ug/Kg	86				70	119	
Isophorone	2200	0	1800	ug/Kg	82				76	122	
2-Nitrophenol	2200	0	1900	ug/Kg	86				54	145	
2,4-Dimethylphenol	2200	0	1900	ug/Kg	86				44	135	
bis(2-Chloroethoxy)methane	2200	0	1800	ug/Kg	82				68	112	
2,4-Dichlorophenol	2200	0	1800	ug/Kg	82				72	118	
Naphthalene	2200	0	1800	ug/Kg	82				72	110	
4-Chloroaniline	2200	0	710	ug/Kg	32				10	91	
Hexachlorobutadiene	2200	0	1800	ug/Kg	82				66	114	
Caprolactam	2200	0	2000	ug/Kg	91				51	134	
4-Chloro-3-methylphenol	2200	0	1800	ug/Kg	82				57	132	
2-Methylnaphthalene	2200	0	1800	ug/Kg	82				59	123	
Hexachlorocyclopentadiene	4400	0	3600	ug/Kg	82				10	175	
2,4,6-Trichlorophenol	2200	0	1900	ug/Kg	86				72	117	
2,4,5-Trichlorophenol	2200	0	1800	ug/Kg	82				72	117	
1,1-Biphenyl	2200	0	1800	ug/Kg	82				75	113	
2-Chloronaphthalene	2200	0	1800	ug/Kg	82				67	118	
2-Nitroaniline	2200	0	1900	ug/Kg	86				69	127	
Dimethylphthalate	2200	0	1900	ug/Kg	86				70	113	
Acenaphthylene	2200	0	1800	ug/Kg	82				79	118	
2,6-Dinitrotoluene	2200	0	1900	ug/Kg	86				70	125	
3-Nitroaniline	2200	0	1100	ug/Kg	50				30	99	
Acenaphthene	2200	0	2000	ug/Kg	91				70	121	
2,4-Dinitrophenol	4400	0	4400	ug/Kg	100				10	155	
4-Nitrophenol	4400	0	3900	ug/Kg	89				45	133	
Dibenzofuran	2200	0	1800	ug/Kg	82				72	110	
2,4-Dinitrotoluene	2200	0	1900	ug/Kg	86				55	128	
Diethylphthalate	2200	0	1800	ug/Kg	82				70	112	
4-Chlorophenyl-phenylether	2200	0	1800	ug/Kg	82				71	108	
Fluorene	2200	0	1800	ug/Kg	82				68	116	
4-Nitroaniline	2200	0	1900	ug/Kg	86				55	120	
4,6-Dinitro-2-methylphenol	2200	0	2200	ug/Kg	100				10	160	
N-Nitrosodiphenylamine	2200	0	1800	ug/Kg	82				73	118	
4-Bromophenyl-phenylether	2200	0	1800	ug/Kg	82				65	121	
Hexachlorobenzene	2200	0	1900	ug/Kg	86				67	118	
Atrazine	2200	0	2100	ug/Kg	95				79	127	

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q2100

Client: CDM Smith

Analytical Method: SW8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	Limits RPD
Pentachlorophenol	4400	0	3900	ug/Kg	89				47	128	
Phenanthrene	2200	0	1800	ug/Kg	82				52	128	
Anthracene	2200	0	1800	ug/Kg	82				62	124	
Carbazole	2200	0	1900	ug/Kg	86				59	119	
Di-n-butylphthalate	2200	0	2000	ug/Kg	91				69	118	
Fluoranthene	2200	0	1900	ug/Kg	86				44	125	
Pyrene	2200	0	1800	ug/Kg	82				26	142	
Butylbenzylphthalate	2200	0	2300	ug/Kg	105				64	126	
3,3-Dichlorobenzidine	2200	0	1300	ug/Kg	59				33	116	
Benzo(a)anthracene	2200	0	1800	ug/Kg	82				71	114	
Chrysene	2200	0	1900	ug/Kg	86				57	121	
bis(2-Ethylhexyl)phthalate	2200	0	2300	ug/Kg	105				42	169	
Di-n-octyl phthalate	2200	0	1900	ug/Kg	86				23	175	
Benzo(b)fluoranthene	2200	0	2000	ug/Kg	91				67	121	
Benzo(k)fluoranthene	2200	0	1700	ug/Kg	77				57	134	
Benzo(a)pyrene	2200	0	1900	ug/Kg	86				70	142	
Indeno(1,2,3-cd)pyrene	2200	0	1900	ug/Kg	86				40	129	
Dibenz(a,h)anthracene	2200	0	1900	ug/Kg	86				43	123	
Benzo(g,h,i)perylene	2200	0	1900	ug/Kg	86				24	125	
1,2,4,5-Tetrachlorobenzene	2200	0	1800	ug/Kg	82				69	124	
1,4-Dioxane	2200	0	1500	ug/Kg	68				46	112	
2,3,4,6-Tetrachlorophenol	2200	0	1900	ug/Kg	86				69	112	

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q2100

Client: CDM Smith

Analytical Method: SW8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Lab Sample ID: Q2100-04MSD		**Client Sample ID: TP-45MSD**						**DataFile: BF142532.D**			
Benzaldehyde	2200	0	1700	ug/Kg	77	0			10	86	20
Phenol	2200	0	1900	ug/Kg	86	5			67	126	20
bis(2-Chloroethyl)ether	2200	0	1900	ug/Kg	86	5			54	125	20
2-Chlorophenol	2200	0	1900	ug/Kg	86	5			79	107	20
2-Methylphenol	2200	0	1900	ug/Kg	86	5			66	122	20
2,2-oxybis(1-Chloropropane)	2200	0	1900	ug/Kg	86	5			65	110	20
Acetophenone	2200	0	1800	ug/Kg	82	0			75	111	20
3+4-Methylphenols	2200	0	1800	ug/Kg	82	0			66	104	20
N-Nitroso-di-n-propylamine	2200	0	1800	ug/Kg	82	0			59	119	20
Hexachloroethane	2200	0	1800	ug/Kg	82	0			65	117	20
Nitrobenzene	2200	0	1900	ug/Kg	86	0			70	119	20
Isophorone	2200	0	1800	ug/Kg	82	0			76	122	20
2-Nitrophenol	2200	0	1900	ug/Kg	86	0			54	145	20
2,4-Dimethylphenol	2200	0	1900	ug/Kg	86	0			44	135	20
bis(2-Chloroethoxy)methane	2200	0	1800	ug/Kg	82	0			68	112	20
2,4-Dichlorophenol	2200	0	1900	ug/Kg	86	5			72	118	20
Naphthalene	2200	0	1800	ug/Kg	82	0			72	110	20
4-Chloroaniline	2200	0	740	ug/Kg	34	6			10	91	20
Hexachlorobutadiene	2200	0	1800	ug/Kg	82	0			66	114	20
Caprolactam	2200	0	2100	ug/Kg	95	4			51	134	20
4-Chloro-3-methylphenol	2200	0	1900	ug/Kg	86	5			57	132	20
2-Methylnaphthalene	2200	0	1800	ug/Kg	82	0			59	123	20
Hexachlorocyclopentadiene	4400	0	3700	ug/Kg	84	2			10	175	20
2,4,6-Trichlorophenol	2200	0	1900	ug/Kg	86	0			72	117	20
2,4,5-Trichlorophenol	2200	0	1900	ug/Kg	86	5			72	117	20
1,1-Biphenyl	2200	0	1800	ug/Kg	82	0			75	113	20
2-Chloronaphthalene	2200	0	1900	ug/Kg	86	5			67	118	20
2-Nitroaniline	2200	0	1900	ug/Kg	86	0			69	127	20
Dimethylphthalate	2200	0	1900	ug/Kg	86	0			70	113	20
Acenaphthylene	2200	0	1800	ug/Kg	82	0			79	118	20
2,6-Dinitrotoluene	2200	0	1900	ug/Kg	86	0			70	125	20
3-Nitroaniline	2200	0	1100	ug/Kg	50	0			30	99	20
Acenaphthene	2200	0	2000	ug/Kg	91	0			70	121	20
2,4-Dinitrophenol	4400	0	4500	ug/Kg	102	2			10	155	20
4-Nitrophenol	4400	0	3900	ug/Kg	89	0			45	133	20
Dibenzofuran	2200	0	1800	ug/Kg	82	0			72	110	20
2,4-Dinitrotoluene	2200	0	2000	ug/Kg	91	6			55	128	20
Diethylphthalate	2200	0	1900	ug/Kg	86	5			70	112	20
4-Chlorophenyl-phenylether	2200	0	1800	ug/Kg	82	0			71	108	20
Fluorene	2200	0	1800	ug/Kg	82	0			68	116	20
4-Nitroaniline	2200	0	1900	ug/Kg	86	0			55	120	20
4,6-Dinitro-2-methylphenol	2200	0	2300	ug/Kg	105	5			10	160	20
N-Nitrosodiphenylamine	2200	0	1900	ug/Kg	86	5			73	118	20
4-Bromophenyl-phenylether	2200	0	1900	ug/Kg	86	5			65	121	20
Hexachlorobenzene	2200	0	1900	ug/Kg	86	0			67	118	20
Atrazine	2200	0	2100	ug/Kg	95	0			79	127	20

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q2100

Client: CDM Smith

Analytical Method: SW8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Pentachlorophenol	4400	0	4000	ug/Kg	91		2		47	128	20
Phenanthrene	2200	0	1900	ug/Kg	86		5		52	128	20
Anthracene	2200	0	1900	ug/Kg	86		5		62	124	20
Carbazole	2200	0	1900	ug/Kg	86		0		59	119	20
Di-n-butylphthalate	2200	0	2000	ug/Kg	91		0		69	118	20
Fluoranthene	2200	0	1900	ug/Kg	86		0		44	125	20
Pyrene	2200	0	1800	ug/Kg	82		0		26	142	20
Butylbenzylphthalate	2200	0	2300	ug/Kg	105		0		64	126	20
3,3-Dichlorobenzidine	2200	0	1400	ug/Kg	64		8		33	116	20
Benzo(a)anthracene	2200	0	1900	ug/Kg	86		5		71	114	20
Chrysene	2200	0	2000	ug/Kg	91		6		57	121	20
bis(2-Ethylhexyl)phthalate	2200	0	2300	ug/Kg	105		0		42	169	20
Di-n-octyl phthalate	2200	0	1900	ug/Kg	86		0		23	175	20
Benzo(b)fluoranthene	2200	0	2000	ug/Kg	91		0		67	121	20
Benzo(k)fluoranthene	2200	0	1700	ug/Kg	77		0		57	134	20
Benzo(a)pyrene	2200	0	1900	ug/Kg	86		0		70	142	20
Indeno(1,2,3-cd)pyrene	2200	0	1900	ug/Kg	86		0		40	129	20
Dibenz(a,h)anthracene	2200	0	1900	ug/Kg	86		0		43	123	20
Benzo(g,h,i)perylene	2200	0	1900	ug/Kg	86		0		24	125	20
1,2,4,5-Tetrachlorobenzene	2200	0	1900	ug/Kg	86		5		69	124	20
1,4-Dioxane	2200	0	1500	ug/Kg	68		0		46	112	20
2,3,4,6-Tetrachlorophenol	2200	0	1900	ug/Kg	86		0		69	112	20

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2100

Client: CDM Smith

Analytical Method: 8270E **DataFile:** BF142529.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB168126BS	Benzaldehyde	1700	1300	ug/Kg	76				10	133	
	Phenol	1700	1400	ug/Kg	82				62	112	
	bis(2-Chloroethyl)ether	1700	1500	ug/Kg	88				60	101	
	2-Chlorophenol	1700	1500	ug/Kg	88				65	112	
	2-Methylphenol	1700	1500	ug/Kg	88				61	108	
	2,2-oxybis(1-Chloropropane)	1700	1400	ug/Kg	82				51	100	
	Acetophenone	1700	1400	ug/Kg	82				66	98	
	3+4-Methylphenols	1700	1500	ug/Kg	88				58	111	
	N-Nitroso-di-n-propylamine	1700	1400	ug/Kg	82				63	95	
	Hexachloroethane	1700	1400	ug/Kg	82				72	108	
	Nitrobenzene	1700	1400	ug/Kg	82				57	101	
	Isophorone	1700	1400	ug/Kg	82				59	99	
	2-Nitrophenol	1700	1500	ug/Kg	88				61	111	
	2,4-Dimethylphenol	1700	1500	ug/Kg	88				46	141	
	bis(2-Chloroethoxy)methane	1700	1400	ug/Kg	82				66	97	
	2,4-Dichlorophenol	1700	1500	ug/Kg	88				62	107	
	Naphthalene	1700	1400	ug/Kg	82				62	100	
	4-Chloroaniline	1700	440	ug/Kg	26				16	100	
	Hexachlorobutadiene	1700	1400	ug/Kg	82				53	98	
	Caprolactam	1700	1700	ug/Kg	100				67	110	
	4-Chloro-3-methylphenol	1700	1500	ug/Kg	88				58	112	
	2-Methylnaphthalene	1700	1400	ug/Kg	82				60	104	
	Hexachlorocyclopentadiene	3300	2800	ug/Kg	85				45	165	
	2,4,6-Trichlorophenol	1700	1400	ug/Kg	82				59	102	
	2,4,5-Trichlorophenol	1700	1400	ug/Kg	82				61	98	
	1,1-Biphenyl	1700	1400	ug/Kg	82				57	103	
	2-Chloronaphthalene	1700	1400	ug/Kg	82				58	99	
	2-Nitroaniline	1700	1500	ug/Kg	88				66	101	
	Dimethylphthalate	1700	1500	ug/Kg	88				61	99	
	Acenaphthylene	1700	1400	ug/Kg	82				63	101	
	2,6-Dinitrotoluene	1700	1500	ug/Kg	88				61	104	
	3-Nitroaniline	1700	800	ug/Kg	47				28	100	
	Acenaphthene	1700	1600	ug/Kg	94				57	104	
	2,4-Dinitrophenol	3300	3600	ug/Kg	109				37	128	
	4-Nitrophenol	3300	3300	ug/Kg	100				48	119	
	Dibenzofuran	1700	1400	ug/Kg	82				63	99	
	2,4-Dinitrotoluene	1700	1600	ug/Kg	94				60	106	
	Diethylphthalate	1700	1500	ug/Kg	88				60	101	
	4-Chlorophenyl-phenylether	1700	1400	ug/Kg	82				58	98	
	Fluorene	1700	1400	ug/Kg	82				61	101	
	4-Nitroaniline	1700	1600	ug/Kg	94				64	103	
	4,6-Dinitro-2-methylphenol	1700	1600	ug/Kg	94				76	113	
	N-Nitrosodiphenylamine	1700	1400	ug/Kg	82				71	99	
	4-Bromophenyl-phenylether	1700	1400	ug/Kg	82				66	102	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2100

Client: CDM Smith

Analytical Method: 8270E **DataFile:** BF142529.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB168126BS	Hexachlorobenzene	1700	1400	ug/Kg	82				64	98	
	Atrazine	1700	1600	ug/Kg	94				47	152	
	Pentachlorophenol	3300	3000	ug/Kg	91				67	105	
	Phenanthrene	1700	1400	ug/Kg	82				59	103	
	Anthracene	1700	1400	ug/Kg	82				61	105	
	Carbazole	1700	1500	ug/Kg	88				61	99	
	Di-n-butylphthalate	1700	1600	ug/Kg	94				58	104	
	Fluoranthene	1700	1500	ug/Kg	88				57	107	
	Pyrene	1700	1500	ug/Kg	88				59	103	
	Butylbenzylphthalate	1700	1700	ug/Kg	100				55	103	
	3,3-Dichlorobenzidine	1700	690	ug/Kg	41		*		42	91	
	Benzo(a)anthracene	1700	1500	ug/Kg	88				60	102	
	Chrysene	1700	1500	ug/Kg	88				59	101	
	bis(2-Ethylhexyl)phthalate	1700	1600	ug/Kg	94				54	135	
	Di-n-octyl phthalate	1700	1300	ug/Kg	76				52	137	
	Benzo(b)fluoranthene	1700	1500	ug/Kg	88				62	109	
	Benzo(k)fluoranthene	1700	1500	ug/Kg	88				62	109	
	Benzo(a)pyrene	1700	1500	ug/Kg	88				63	103	
	Indeno(1,2,3-cd)pyrene	1700	1400	ug/Kg	82				63	101	
	Dibenz(a,h)anthracene	1700	1400	ug/Kg	82				61	112	
	Benzo(g,h,i)perylene	1700	1400	ug/Kg	82				70	108	
	1,2,4,5-Tetrachlorobenzene	1700	1400	ug/Kg	82				53	101	
	1,4-Dioxane	1700	1200	ug/Kg	71				50	96	
	2,3,4,6-Tetrachlorophenol	1700	1500	ug/Kg	88				59	108	

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4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB168126BL

Lab Name: CHEMTECH Contract: CAMP02

Lab Code: CHEM Case No.: Q2100 SAS No.: Q2100 SDG NO.: Q2100

Lab File ID: BF142528.D Lab Sample ID: PB168126BL

Instrument ID: BNA_F Date Extracted: 05/22/2025

Matrix: (soil/water) SOIL Date Analyzed: 05/23/2025

Level: (low/med) LOW Time Analyzed: 11:41

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB168126BS	PB168126BS	BF142529.D	05/23/2025
TP-45	Q2100-04	BF142530.D	05/23/2025
TP-22	Q2100-02	BF142536.D	05/23/2025
TP-16	Q2100-01	BF142537.D	05/23/2025
TP-21	Q2100-03	BF142547.D	05/23/2025
TP-45MS	Q2100-04MS	BF142531.D	05/23/2025
TP-45MSD	Q2100-04MSD	BF142532.D	05/23/2025

COMMENTS:

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: CAMP02

Lab Code: CHEM SAS No.: Q2100 SDG NO.: Q2100

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: CAMP02

Lab Code: CHEM SAS No.: Q2100 SDG NO.: Q2100

Lab File ID: BF142526.D DFTPP Injection Date: 05/23/2025

Instrument ID: BNA_F DFTPP Injection Time: 10:43

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	38.2
68	Less than 2.0% of mass 69	0.5 (1.7) 1
69	Mass 69 relative abundance	34.0
70	Less than 2.0% of mass 69	0.1 (0.5) 1
127	10.0 - 80.0% of mass 198	45.9
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	6.8
275	10.0 - 60.0% of mass 198	29.9
365	Greater than 1% of mass 198	4.1
441	Present, but less than mass 443	20.2
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	19.5 (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	BF142527.D	05/23/2025	11:12
PB168126BL	PB168126BL	BF142528.D	05/23/2025	11:41
PB168126BS	PB168126BS	BF142529.D	05/23/2025	12:10
TP-45	Q2100-04	BF142530.D	05/23/2025	12:43
TP-45MS	Q2100-04MS	BF142531.D	05/23/2025	13:12
TP-45MSD	Q2100-04MSD	BF142532.D	05/23/2025	13:41
TP-22	Q2100-02	BF142536.D	05/23/2025	15:37
TP-16	Q2100-01	BF142537.D	05/23/2025	16:05
TP-21	Q2100-03	BF142547.D	05/23/2025	20:53

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q2100 SAS No.: Q2100 SDG NO.: Q2100

EPA Sample No.: SSTDCCC040 Date Analyzed: 05/23/2025

Lab File ID: BF142527.D Time Analyzed: 11:12

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	102129	6.898	402339	8.19	219662	9.94
	UPPER LIMIT	204258	7.398	804678	8.686	439324	10.439
	LOWER LIMIT	51064.5	6.398	201170	7.686	109831	9.439
	EPA SAMPLE NO.						
01	PB168126BL	108646	6.90	416736	8.18	234758	9.93
02	PB168126BS	113674	6.90	445507	8.18	254111	9.94
03	TP-45	118740	6.90	456173	8.18	248248	9.93
04	TP-45MS	126551	6.90	479831	8.18	253217	9.94
05	TP-45MSD	123385	6.90	475116	8.18	248986	9.94
06	TP-16	114387	6.90	436187	8.18	233620	9.93
07	TP-22	111473	6.90	430329	8.18	234472	9.93
08	TP-21	105842	6.90	353306	8.18	144326	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.: Q2100 SAS No.: Q2100 SDG NO.: Q2100

EPA Sample No.: SSTDCCC040 Date Analyzed: 05/23/2025

Lab File ID: BF142527.D Time Analyzed: 11:12

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	382968	11.427	205798	14.068	210218	15.562
	UPPER LIMIT	765936	11.927	411596	14.568	420436	16.062
	LOWER LIMIT	191484	10.927	102899	13.568	105109	15.062
	EPA SAMPLE NO.						
01	PB168126BL	439276	11.43	317833	14.07	240419	15.56
02	PB168126BS	449715	11.43	246622	14.08	234935	15.56
03	TP-45	426449	11.42	251802	14.06	225815	15.56
04	TP-45MS	418845	11.43	224873	14.07	247916	15.56
05	TP-45MSD	400587	11.43	218790	14.07	251763	15.56
06	TP-16	387454	11.42	212215	14.06	222870	15.56
07	TP-22	390498	11.42	216372	14.06	220082	15.56
08	TP-21	233043	11.42	235632	14.07	174227	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.

QC SAMPLE DATA

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Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	PB168126BL	SDG No.:	Q2100
Lab Sample ID:	PB168126BL	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	100
Sample Wt/Vol:	30.03 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
BF142528.D	1	05/22/25 09:00	05/23/25 11:41	PB168126

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	79.9	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	58.1	U	58.1	170	ug/Kg
105-67-9	2,4-Dimethylphenol	64.7	U	64.7	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	52.0	U	52.0	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:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	PB168126BL	SDG No.:	Q2100
Lab Sample ID:	PB168126BL	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	100
Sample Wt/Vol:	30.03 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
BF142528.D	1	05/22/25 09:00	05/23/25 11:41	PB168126

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	50.0	U	50.0	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	64.1	U	64.1	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	51.2	U	51.2	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	71.3	U	71.3	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	59.1	U	59.1	170	ug/Kg
117-84-0	Di-n-octyl phthalate	86.7	U	86.7	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:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	PB168126BL	SDG No.:	Q2100
Lab Sample ID:	PB168126BL	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	100
Sample Wt/Vol:	30.03 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
BF142528.D	1	05/22/25 09:00	05/23/25 11:41	PB168126

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	123		18 - 112	82%	SPK: 150
13127-88-3	Phenol-d6	123		15 - 107	82%	SPK: 150
4165-60-0	Nitrobenzene-d5	77.1		18 - 107	77%	SPK: 100
321-60-8	2-Fluorobiphenyl	73.6		20 - 109	74%	SPK: 100
118-79-6	2,4,6-Tribromophenol	130		10 - 116	87%	SPK: 150
1718-51-0	Terphenyl-d14	65.7		10 - 105	66%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	109000	6.898			
1146-65-2	Naphthalene-d8	417000	8.181			
15067-26-2	Acenaphthene-d10	235000	9.933			
1517-22-2	Phenanthrene-d10	439000	11.428			
1719-03-5	Chrysene-d12	318000	14.069			
1520-96-3	Perylene-d12	240000	15.563			
TENTATIVE IDENTIFIED COMPOUNDS						
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	310	A		5.13	ug/Kg

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Report of Analysis

Client:	CDM Smith			Date Collected:	
Project:	South River WM Replacement			Date Received:	
Client Sample ID:	PB168126BL			SDG No.:	Q2100
Lab Sample ID:	PB168126BL			Matrix:	SOIL
Analytical Method:	8270E			% Solid:	100
Sample Wt/Vol:	30.03	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
BF142528.D	1	05/22/25 09:00	05/23/25 11:41	PB168126

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:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	PB168126BS	SDG No.:	Q2100
Lab Sample ID:	PB168126BS	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
BF142529.D	1	05/22/25 09:00	05/23/25 12:10	PB168126

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	1300		160	330	ug/Kg
108-95-2	Phenol	1400		22.1	170	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	1500		24.3	170	ug/Kg
95-57-8	2-Chlorophenol	1500		24.4	170	ug/Kg
95-48-7	2-Methylphenol	1500		29.9	170	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	1400		37.5	170	ug/Kg
98-86-2	Acetophenone	1400		29.5	170	ug/Kg
65794-96-9	3+4-Methylphenols	1500		41.1	330	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	1400		47.4	79.9	ug/Kg
67-72-1	Hexachloroethane	1400		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	1500		28.3	170	ug/Kg
91-20-3	Naphthalene	1400		22.7	170	ug/Kg
106-47-8	4-Chloroaniline	440		35.4	170	ug/Kg
87-68-3	Hexachlorobutadiene	1400		25.3	170	ug/Kg
105-60-2	Caprolactam	1700		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	2800	E	120	330	ug/Kg
88-06-2	2,4,6-Trichlorophenol	1400		19.8	170	ug/Kg
95-95-4	2,4,5-Trichlorophenol	1400		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	1500		27.1	170	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	PB168126BS	SDG No.:	Q2100
Lab Sample ID:	PB168126BS	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
BF142529.D	1	05/22/25 09:00	05/23/25 12:10	PB168126

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	800		46.0	170	ug/Kg
83-32-9	Acenaphthene	1600		21.3	170	ug/Kg
51-28-5	2,4-Dinitrophenol	3600	E	230	330	ug/Kg
100-02-7	4-Nitrophenol	3300	E	110	330	ug/Kg
132-64-9	Dibenzofuran	1400		22.7	170	ug/Kg
121-14-2	2,4-Dinitrotoluene	1600		50.1	170	ug/Kg
84-66-2	Diethylphthalate	1500		28.3	170	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	1400		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	1600		100	330	ug/Kg
86-30-6	n-Nitrosodiphenylamine	1400		32.9	170	ug/Kg
101-55-3	4-Bromophenyl-phenylether	1400		27.8	170	ug/Kg
118-74-1	Hexachlorobenzene	1400		25.3	170	ug/Kg
1912-24-9	Atrazine	1600		34.0	170	ug/Kg
87-86-5	Pentachlorophenol	3000	E	51.3	330	ug/Kg
85-01-8	Phenanthrene	1400		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	1700		71.4	170	ug/Kg
91-94-1	3,3-Dichlorobenzidine	690		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	1300		86.7	330	ug/Kg
205-99-2	Benzo(b)fluoranthene	1500		19.0	170	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	PB168126BS	SDG No.:	Q2100
Lab Sample ID:	PB168126BS	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
BF142529.D	1	05/22/25 09:00	05/23/25 12:10	PB168126

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	1400		29.1	170	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	1400		27.4	170	ug/Kg
191-24-2	Benzo(g,h,i)perylene	1400		25.7	170	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	1400		25.6	170	ug/Kg
123-91-1	1,4-Dioxane	1200		45.2	170	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	1500		27.4	170	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	120		18 - 112	80%	SPK: 150
13127-88-3	Phenol-d6	122		15 - 107	82%	SPK: 150
4165-60-0	Nitrobenzene-d5	74.3		18 - 107	74%	SPK: 100
321-60-8	2-Fluorobiphenyl	70.0		20 - 109	70%	SPK: 100
118-79-6	2,4,6-Tribromophenol	124		10 - 116	83%	SPK: 150
1718-51-0	Terphenyl-d14	74.4		10 - 105	74%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	114000	6.899			
1146-65-2	Naphthalene-d8	446000	8.181			
15067-26-2	Acenaphthene-d10	254000	9.939			
1517-22-2	Phenanthrene-d10	450000	11.428			
1719-03-5	Chrysene-d12	247000	14.075			
1520-96-3	Perylene-d12	235000	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

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

Report of Analysis

Client:	CDM Smith	Date Collected:	05/20/25
Project:	South River WM Replacement	Date Received:	05/20/25
Client Sample ID:	TP-45MS	SDG No.:	Q2100
Lab Sample ID:	Q2100-04MS	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	76.2
Sample Wt/Vol:	30.08 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
BF142531.D	1	05/22/25 09:00	05/23/25 13:12	PB168126

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	1700		200	430	ug/Kg
108-95-2	Phenol	1800		28.9	220	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	1800		31.8	220	ug/Kg
95-57-8	2-Chlorophenol	1800		31.9	220	ug/Kg
95-48-7	2-Methylphenol	1800		39.1	220	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	1800		49.1	220	ug/Kg
98-86-2	Acetophenone	1800		38.6	220	ug/Kg
65794-96-9	3+4-Methylphenols	1800		53.8	430	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	1800		62.0	100	ug/Kg
67-72-1	Hexachloroethane	1800		23.0	220	ug/Kg
98-95-3	Nitrobenzene	1900		24.0	220	ug/Kg
78-59-1	Isophorone	1800		42.9	220	ug/Kg
88-75-5	2-Nitrophenol	1900		76.2	220	ug/Kg
105-67-9	2,4-Dimethylphenol	1900		84.8	220	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	1800		40.3	220	ug/Kg
120-83-2	2,4-Dichlorophenol	1800		37.0	220	ug/Kg
91-20-3	Naphthalene	1800		29.7	220	ug/Kg
106-47-8	4-Chloroaniline	710		46.3	220	ug/Kg
87-68-3	Hexachlorobutadiene	1800		33.1	220	ug/Kg
105-60-2	Caprolactam	2000		68.2	430	ug/Kg
59-50-7	4-Chloro-3-methylphenol	1800		37.6	220	ug/Kg
91-57-6	2-Methylnaphthalene	1800		33.5	220	ug/Kg
77-47-4	Hexachlorocyclopentadiene	3600	E	150	430	ug/Kg
88-06-2	2,4,6-Trichlorophenol	1900		25.9	220	ug/Kg
95-95-4	2,4,5-Trichlorophenol	1800		38.1	220	ug/Kg
92-52-4	1,1-Biphenyl	1800		28.5	220	ug/Kg
91-58-7	2-Chloronaphthalene	1800		29.4	220	ug/Kg
88-74-4	2-Nitroaniline	1900		63.0	220	ug/Kg
131-11-3	Dimethylphthalate	1900		35.5	220	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	05/20/25
Project:	South River WM Replacement	Date Received:	05/20/25
Client Sample ID:	TP-45MS	SDG No.:	Q2100
Lab Sample ID:	Q2100-04MS	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	76.2
Sample Wt/Vol:	30.08 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
BF142531.D	1	05/22/25 09:00	05/23/25 13:12	PB168126

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	1800		37.8	220	ug/Kg
606-20-2	2,6-Dinitrotoluene	1900		44.0	220	ug/Kg
99-09-2	3-Nitroaniline	1100		60.2	220	ug/Kg
83-32-9	Acenaphthene	2000		27.9	220	ug/Kg
51-28-5	2,4-Dinitrophenol	4400	E	300	430	ug/Kg
100-02-7	4-Nitrophenol	3900	E	140	430	ug/Kg
132-64-9	Dibenzofuran	1800		29.7	220	ug/Kg
121-14-2	2,4-Dinitrotoluene	1900		65.6	220	ug/Kg
84-66-2	Diethylphthalate	1800		37.0	220	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	1800		34.9	220	ug/Kg
86-73-7	Fluorene	1800		33.1	220	ug/Kg
100-01-6	4-Nitroaniline	1900		84.0	220	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	2200		130	430	ug/Kg
86-30-6	n-Nitrosodiphenylamine	1800		43.1	220	ug/Kg
101-55-3	4-Bromophenyl-phenylether	1800		36.4	220	ug/Kg
118-74-1	Hexachlorobenzene	1900		33.1	220	ug/Kg
1912-24-9	Atrazine	2100		44.5	220	ug/Kg
87-86-5	Pentachlorophenol	3900	E	67.1	430	ug/Kg
85-01-8	Phenanthrene	1800		27.4	220	ug/Kg
120-12-7	Anthracene	1800		43.6	220	ug/Kg
86-74-8	Carbazole	1900		40.8	220	ug/Kg
84-74-2	Di-n-butylphthalate	2000		62.7	220	ug/Kg
206-44-0	Fluoranthene	1900		39.3	220	ug/Kg
129-00-0	Pyrene	1800		47.1	220	ug/Kg
85-68-7	Butylbenzylphthalate	2300		93.5	220	ug/Kg
91-94-1	3,3-Dichlorobenzidine	1300		48.0	430	ug/Kg
56-55-3	Benzo(a)anthracene	1800		30.1	220	ug/Kg
218-01-9	Chrysene	1900		26.0	220	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	2300		77.5	220	ug/Kg
117-84-0	Di-n-octyl phthalate	1900		110	430	ug/Kg
205-99-2	Benzo(b)fluoranthene	2000		24.9	220	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	05/20/25
Project:	South River WM Replacement	Date Received:	05/20/25
Client Sample ID:	TP-45MS	SDG No.:	Q2100
Lab Sample ID:	Q2100-04MS	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	76.2
Sample Wt/Vol:	30.08 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
BF142531.D	1	05/22/25 09:00	05/23/25 13:12	PB168126

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	1700		29.3	220	ug/Kg
50-32-8	Benzo(a)pyrene	1900		38.6	220	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	1900		38.1	220	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	1900		35.9	220	ug/Kg
191-24-2	Benzo(g,h,i)perylene	1900		33.6	220	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	1800		33.5	220	ug/Kg
123-91-1	1,4-Dioxane	1500		59.2	220	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	1900		35.9	220	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	93.8		18 - 112	63%	SPK: 150
13127-88-3	Phenol-d6	98.1		15 - 107	65%	SPK: 150
4165-60-0	Nitrobenzene-d5	60.2		18 - 107	60%	SPK: 100
321-60-8	2-Fluorobiphenyl	57.3		20 - 109	57%	SPK: 100
118-79-6	2,4,6-Tribromophenol	102		10 - 116	68%	SPK: 150
1718-51-0	Terphenyl-d14	56.4		10 - 105	56%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	127000	6.898			
1146-65-2	Naphthalene-d8	480000	8.181			
15067-26-2	Acenaphthene-d10	253000	9.939			
1517-22-2	Phenanthrene-d10	419000	11.428			
1719-03-5	Chrysene-d12	225000	14.069			
1520-96-3	Perylene-d12	248000	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:	CDM Smith	Date Collected:	05/20/25
Project:	South River WM Replacement	Date Received:	05/20/25
Client Sample ID:	TP-45MSD	SDG No.:	Q2100
Lab Sample ID:	Q2100-04MSD	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	76.2
Sample Wt/Vol:	30.06 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
BF142532.D	1	05/22/25 09:00	05/23/25 13:41	PB168126

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	1700		200	430	ug/Kg
108-95-2	Phenol	1900		28.9	220	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	1900		31.8	220	ug/Kg
95-57-8	2-Chlorophenol	1900		32.0	220	ug/Kg
95-48-7	2-Methylphenol	1900		39.2	220	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	1900		49.1	220	ug/Kg
98-86-2	Acetophenone	1800		38.6	220	ug/Kg
65794-96-9	3+4-Methylphenols	1800		53.8	430	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	1800		62.1	100	ug/Kg
67-72-1	Hexachloroethane	1800		23.1	220	ug/Kg
98-95-3	Nitrobenzene	1900		24.0	220	ug/Kg
78-59-1	Isophorone	1800		43.0	220	ug/Kg
88-75-5	2-Nitrophenol	1900		76.2	220	ug/Kg
105-67-9	2,4-Dimethylphenol	1900		84.9	220	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	1800		40.3	220	ug/Kg
120-83-2	2,4-Dichlorophenol	1900		37.1	220	ug/Kg
91-20-3	Naphthalene	1800		29.7	220	ug/Kg
106-47-8	4-Chloroaniline	740		46.4	220	ug/Kg
87-68-3	Hexachlorobutadiene	1800		33.1	220	ug/Kg
105-60-2	Caprolactam	2100		68.2	430	ug/Kg
59-50-7	4-Chloro-3-methylphenol	1900		37.6	220	ug/Kg
91-57-6	2-Methylnaphthalene	1800		33.5	220	ug/Kg
77-47-4	Hexachlorocyclopentadiene	3700	E	150	430	ug/Kg
88-06-2	2,4,6-Trichlorophenol	1900		25.9	220	ug/Kg
95-95-4	2,4,5-Trichlorophenol	1900		38.1	220	ug/Kg
92-52-4	1,1-Biphenyl	1800		28.6	220	ug/Kg
91-58-7	2-Chloronaphthalene	1900		29.5	220	ug/Kg
88-74-4	2-Nitroaniline	1900		63.0	220	ug/Kg
131-11-3	Dimethylphthalate	1900		35.5	220	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	05/20/25
Project:	South River WM Replacement	Date Received:	05/20/25
Client Sample ID:	TP-45MSD	SDG No.:	Q2100
Lab Sample ID:	Q2100-04MSD	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	76.2
Sample Wt/Vol:	30.06 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
BF142532.D	1	05/22/25 09:00	05/23/25 13:41	PB168126

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	1800		37.9	220	ug/Kg
606-20-2	2,6-Dinitrotoluene	1900		44.0	220	ug/Kg
99-09-2	3-Nitroaniline	1100		60.2	220	ug/Kg
83-32-9	Acenaphthene	2000		27.9	220	ug/Kg
51-28-5	2,4-Dinitrophenol	4500	E	300	430	ug/Kg
100-02-7	4-Nitrophenol	3900	E	140	430	ug/Kg
132-64-9	Dibenzofuran	1800		29.7	220	ug/Kg
121-14-2	2,4-Dinitrotoluene	2000		65.6	220	ug/Kg
84-66-2	Diethylphthalate	1900		37.1	220	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	1800		35.0	220	ug/Kg
86-73-7	Fluorene	1800		33.1	220	ug/Kg
100-01-6	4-Nitroaniline	1900		84.1	220	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	2300		130	430	ug/Kg
86-30-6	n-Nitrosodiphenylamine	1900		43.1	220	ug/Kg
101-55-3	4-Bromophenyl-phenylether	1900		36.4	220	ug/Kg
118-74-1	Hexachlorobenzene	1900		33.1	220	ug/Kg
1912-24-9	Atrazine	2100		44.5	220	ug/Kg
87-86-5	Pentachlorophenol	4000	E	67.2	430	ug/Kg
85-01-8	Phenanthrene	1900		27.4	220	ug/Kg
120-12-7	Anthracene	1900		43.6	220	ug/Kg
86-74-8	Carbazole	1900		40.9	220	ug/Kg
84-74-2	Di-n-butylphthalate	2000		62.7	220	ug/Kg
206-44-0	Fluoranthene	1900		39.3	220	ug/Kg
129-00-0	Pyrene	1800		47.1	220	ug/Kg
85-68-7	Butylbenzylphthalate	2300		93.5	220	ug/Kg
91-94-1	3,3-Dichlorobenzidine	1400		48.1	430	ug/Kg
56-55-3	Benzo(a)anthracene	1900		30.1	220	ug/Kg
218-01-9	Chrysene	2000		26.1	220	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	2300		77.5	220	ug/Kg
117-84-0	Di-n-octyl phthalate	1900		110	430	ug/Kg
205-99-2	Benzo(b)fluoranthene	2000		24.9	220	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	05/20/25
Project:	South River WM Replacement	Date Received:	05/20/25
Client Sample ID:	TP-45MSD	SDG No.:	Q2100
Lab Sample ID:	Q2100-04MSD	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	76.2
Sample Wt/Vol:	30.06 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
BF142532.D	1	05/22/25 09:00	05/23/25 13:41	PB168126

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	1700		29.3	220	ug/Kg
50-32-8	Benzo(a)pyrene	1900		38.6	220	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	1900		38.1	220	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	1900		35.9	220	ug/Kg
191-24-2	Benzo(g,h,i)perylene	1900		33.7	220	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	1900		33.5	220	ug/Kg
123-91-1	1,4-Dioxane	1500		59.2	220	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	1900		35.9	220	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	96.7		18 - 112	64%	SPK: 150
13127-88-3	Phenol-d6	101		15 - 107	67%	SPK: 150
4165-60-0	Nitrobenzene-d5	60.9		18 - 107	61%	SPK: 100
321-60-8	2-Fluorobiphenyl	58.4		20 - 109	58%	SPK: 100
118-79-6	2,4,6-Tribromophenol	103		10 - 116	69%	SPK: 150
1718-51-0	Terphenyl-d14	55.8		10 - 105	56%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	123000	6.898			
1146-65-2	Naphthalene-d8	475000	8.181			
15067-26-2	Acenaphthene-d10	249000	9.939			
1517-22-2	Phenanthrene-d10	401000	11.428			
1719-03-5	Chrysene-d12	219000	14.069			
1520-96-3	Perylene-d12	252000	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

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

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: CAMP02

Lab Code: CHEM Case No.: Q2100 SAS No.: Q2100 SDG No.: Q2100

Instrument ID: BNA_F Calibration Date/Time: 05/23/2025 11:12

Lab File ID: BF142527.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	1.152		-2.9	
Benzaldehyde	0.859	0.837		-2.6	
Phenol-d6	1.429	1.392		-2.6	
Phenol	1.608	1.583		-1.6	20.0
bis(2-Chloroethyl)ether	1.157	1.112		-3.9	
2-Chlorophenol	1.293	1.248		-3.5	
2-Methylphenol	1.010	0.995		-1.5	
2,2-oxybis(1-Chloropropane)	1.944	1.901		-2.2	
Acetophenone	0.443	0.427		-3.6	
3+4-Methylphenols	1.293	1.264		-2.2	
n-Nitroso-di-n-propylamine	0.886	0.848	0.050	-4.3	
Nitrobenzene-d5	0.367	0.350		-4.6	
Hexachloroethane	0.507	0.478		-5.7	
Nitrobenzene	0.331	0.318		-3.9	
Isophorone	0.613	0.580		-5.4	
2-Nitrophenol	0.177	0.169		-4.5	20.0
2,4-Dimethylphenol	0.312	0.304		-2.6	
bis(2-Chloroethoxy)methane	0.383	0.365		-4.7	
2,4-Dichlorophenol	0.283	0.272		-3.9	20.0
Naphthalene	0.985	0.937		-4.9	
4-Chloroaniline	0.399	0.390		-2.3	
Hexachlorobutadiene	0.192	0.178		-7.3	20.0
Caprolactam	0.080	0.084		5.0	
4-Chloro-3-methylphenol	0.291	0.281		-3.4	20.0
2-Methylnaphthalene	0.620	0.586		-5.5	
Hexachlorocyclopentadiene	0.387	0.374	0.050	-3.4	
2,4,6-Trichlorophenol	0.387	0.380		-1.8	20.0
2-Fluorobiphenyl	1.490	1.386		-7.0	
2,4,5-Trichlorophenol	0.408	0.389		-4.7	
1,1-Biphenyl	1.552	1.477		-4.8	
2-Chloronaphthalene	1.146	1.093		-4.6	
2-Nitroaniline	0.331	0.326		-1.5	
Dimethylphthalate	1.320	1.270		-3.8	
Acenaphthylene	1.936	1.847		-4.6	
2,6-Dinitrotoluene	0.285	0.275		-3.5	
3-Nitroaniline	0.311	0.314		1.0	
Acenaphthene	1.182	1.124		-4.9	20.0
2,4-Dinitrophenol	0.147	0.149	0.050	1.4	
4-Nitrophenol	0.230	0.239	0.050	3.9	

Form VII SV-1

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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: CAMP02

Lab Code: CHEM Case No.: Q2100 SAS No.: Q2100 SDG No.: Q2100

Instrument ID: BNA_F Calibration Date/Time: 05/23/2025 11:12

Lab File ID: BF142527.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	1.625		-4.5	
2,4-Dinitrotoluene	0.372	0.376		1.1	
Diethylphthalate	1.289	1.248		-3.2	
4-Chlorophenyl-phenylether	0.646	0.620		-4.0	
Fluorene	1.314	1.263		-3.9	
4-Nitroaniline	0.282	0.300		6.4	
4,6-Dinitro-2-methylphenol	0.112	0.115		2.7	
n-Nitrosodiphenylamine	0.684	0.633		-7.5	20.0
2,4,6-Tribromophenol	0.222	0.216		-2.7	
4-Bromophenyl-phenylether	0.236	0.214		-9.3	
Hexachlorobenzene	0.262	0.242		-7.6	
Atrazine	0.182	0.183		0.5	
Pentachlorophenol	0.148	0.150		1.4	20.0
Phenanthrene	1.069	1.006		-5.9	
Anthracene	1.091	1.036		-5.0	
Carbazole	0.933	0.921		-1.3	
Di-n-butylphthalate	1.021	1.043		2.2	
Fluoranthene	0.999	0.980		-1.9	20.0
Pyrene	1.866	1.802		-3.4	
Terphenyl-d14	1.464	1.397		-4.6	
Butylbenzylphthalate	0.516	0.553		7.2	
3,3-Dichlorobenzidine	0.405	0.413		2.0	
Benzo(a)anthracene	1.336	1.324		-0.9	
Chrysene	1.200	1.134		-5.5	
Bis(2-ethylhexyl)phthalate	0.660	0.677		2.6	
Di-n-octyl phthalate	1.290	1.118		-13.3	20.0
Benzo(b)fluoranthene	1.184	1.171		-1.1	
Benzo(k)fluoranthene	1.109	0.983		-11.4	
Benzo(a)pyrene	1.116	1.065		-4.6	20.0
Indeno(1,2,3-cd)pyrene	1.501	1.373		-8.5	
Dibenzo(a,h)anthracene	1.218	1.112		-8.7	
Benzo(g,h,i)perylene	1.218	1.127		-7.5	
1,2,4,5-Tetrachlorobenzene	0.574	0.550		-4.2	
1,4-Dioxane	0.475	0.471		-0.8	20.0
2,3,4,6-Tetrachlorophenol	0.341	0.338		-0.9	

All other compounds must meet a minimum RRF of 0.010.

Form VII SV-1

SAMPLE RAW DATA

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052325\
Data File : BF142537.D
Acq On : 23 May 2025 16:05
Operator : RC/JU
Sample : Q2100-01
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-16

Quant Time: May 23 17:03:56 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

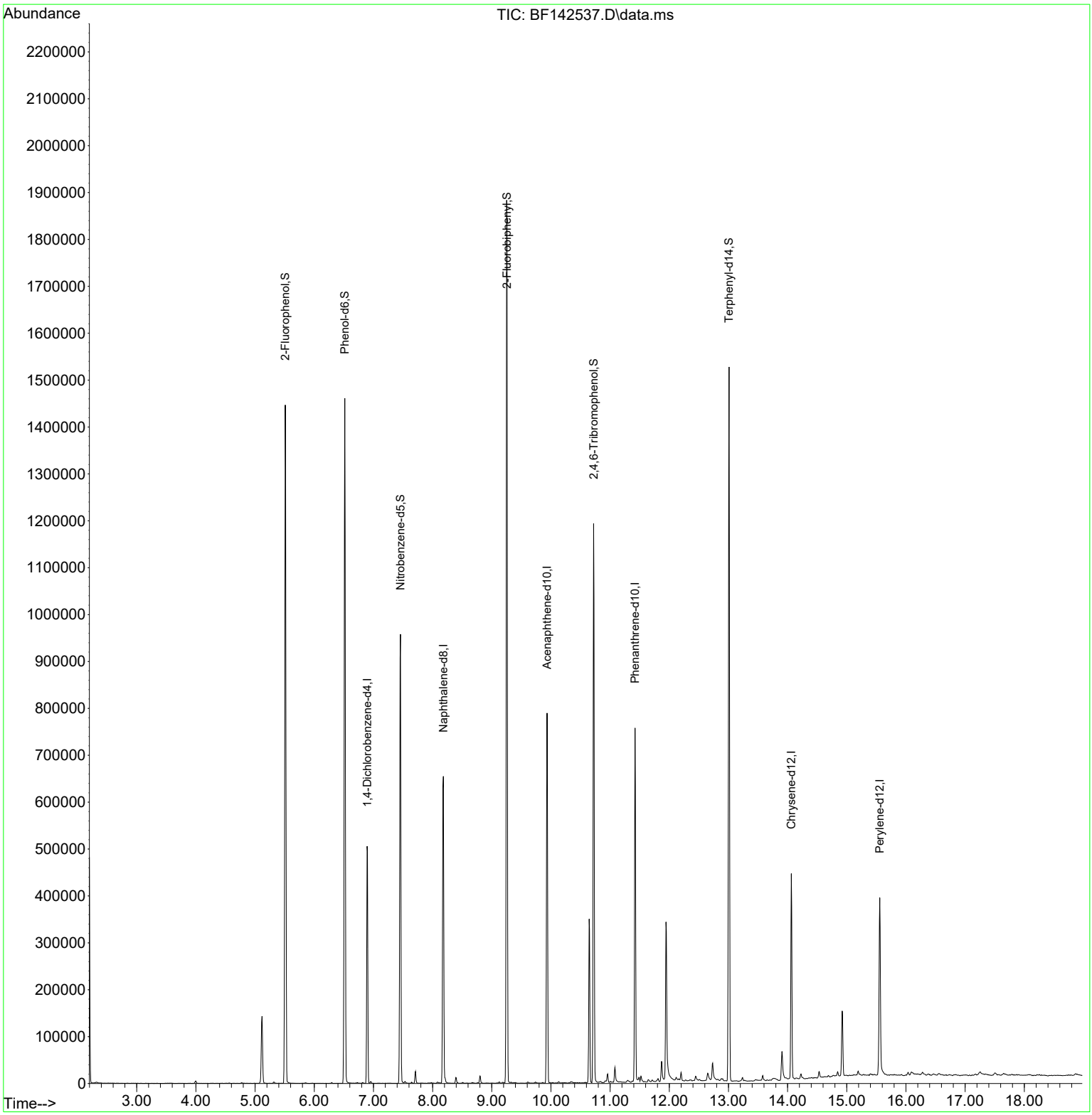
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.898	152	114387	20.000	ng	0.00
21) Naphthalene-d8	8.181	136	436187	20.000	ng	0.00
39) Acenaphthene-d10	9.933	164	233620	20.000	ng	-0.01
64) Phenanthrene-d10	11.422	188	387454	20.000	ng	-0.01
76) Chrysene-d12	14.063	240	212215	20.000	ng	-0.01
86) Perylene-d12	15.557	264	222870	20.000	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.510	112	557183	82.065	ng	0.00
7) Phenol-d6	6.516	99	687727	84.147	ng	-0.02
23) Nitrobenzene-d5	7.457	82	413511	51.694	ng	-0.02
42) 2,4,6-Tribromophenol	10.722	330	211280	81.484	ng	-0.02
45) 2-Fluorobiphenyl	9.257	172	872556	50.118	ng	-0.01
79) Terphenyl-d14	13.010	244	738092	47.529	ng	0.00
Target Compounds						Qvalue

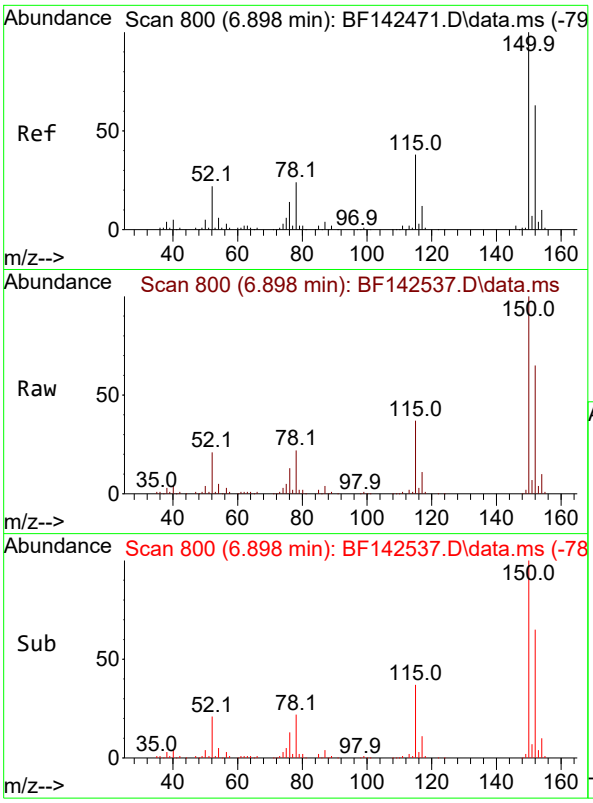
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052325\
Data File : BF142537.D
Acq On : 23 May 2025 16:05
Operator : RC/JU
Sample : Q2100-01
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-16

Quant Time: May 23 17:03:56 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



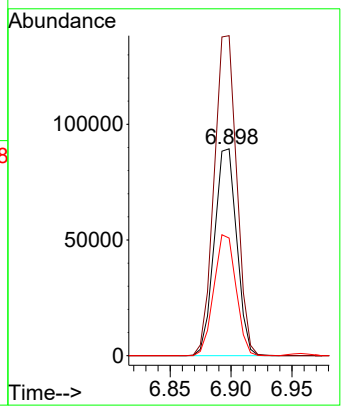


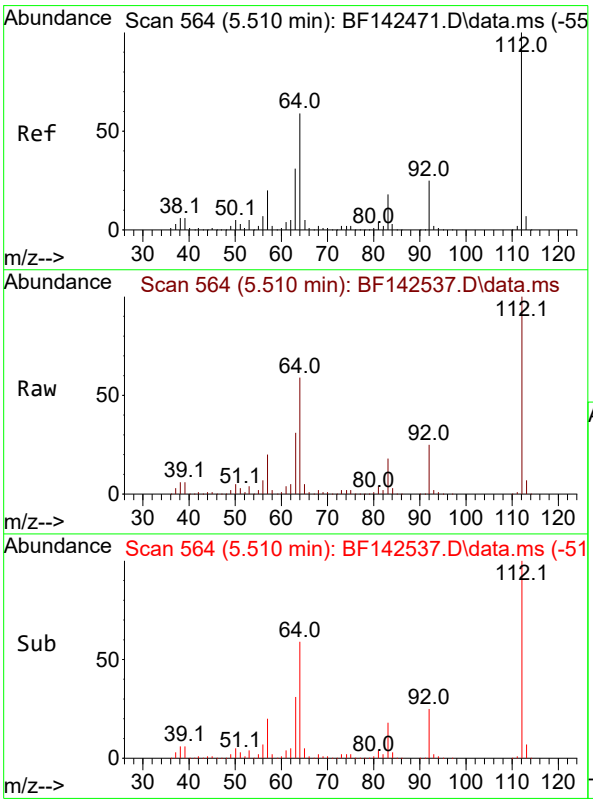
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.898 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF142537.D
Acq: 23 May 2025 16:05

Instrument :
BNA_F
ClientSampleId :
TP-16

Tgt Ion:152 Resp: 114387

Ion	Ratio	Lower	Upper
152	100		
150	154.7	128.2	192.4
115	56.9	48.3	72.5

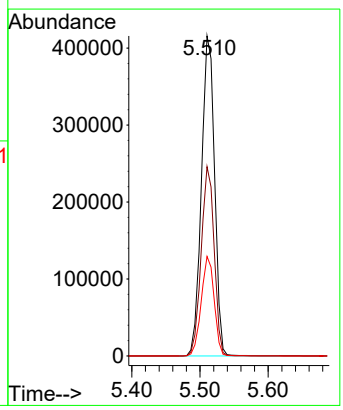


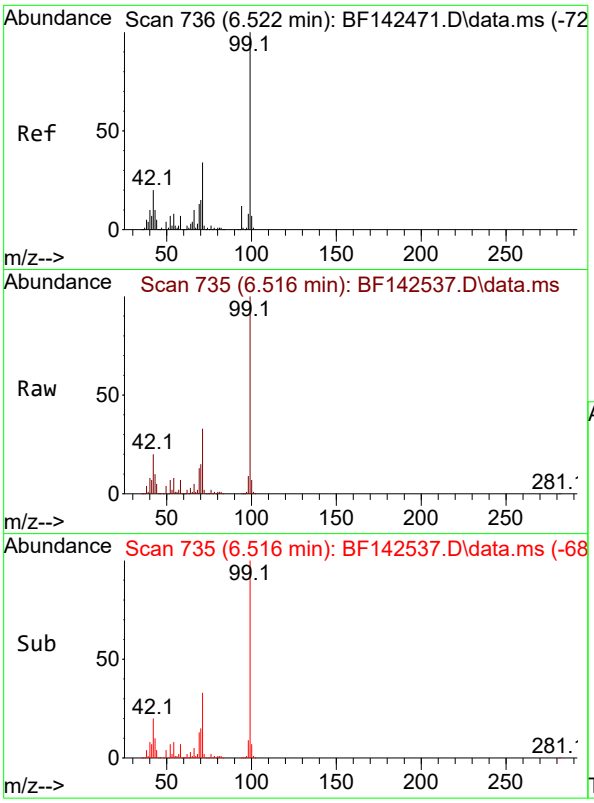


#5
2-Fluorophenol
Concen: 82.065 ng
RT: 5.510 min Scan# 564
Delta R.T. -0.006 min
Lab File: BF142537.D
Acq: 23 May 2025 16:05

Tgt Ion:112 Resp: 557183

Ion	Ratio	Lower	Upper
112	100		
64	59.2	47.5	71.3
63	31.1	24.9	37.3



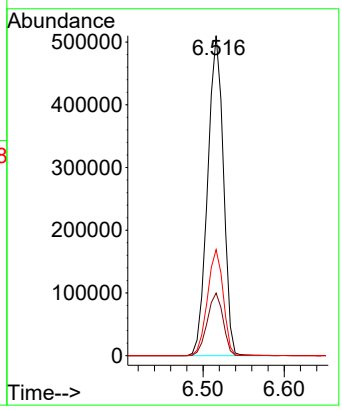


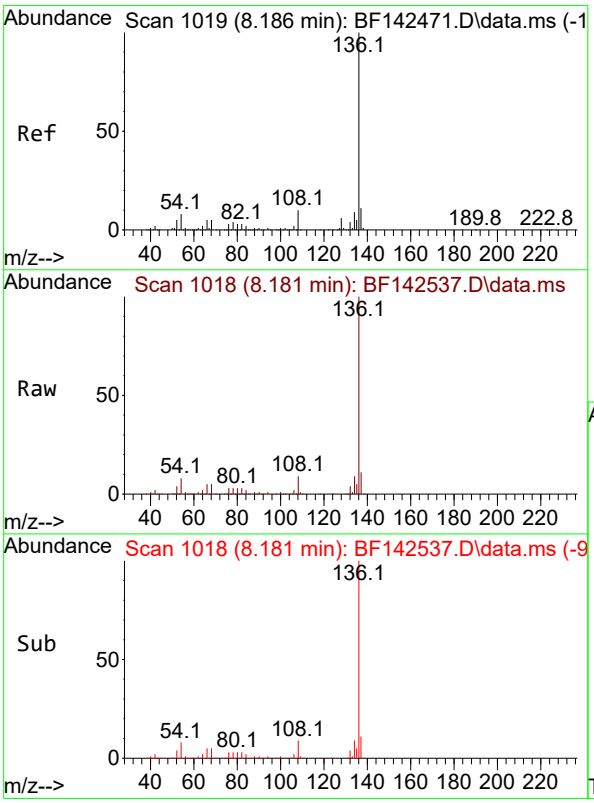
#7
Phenol-d6
Concen: 84.147 ng
RT: 6.516 min Scan# 7
Delta R.T. -0.018 min
Lab File: BF142537.D
Acq: 23 May 2025 16:05

Instrument :
BNA_F
ClientSampleId :
TP-16

Tgt Ion: 99 Resp: 687727

Ion	Ratio	Lower	Upper
99	100		
42	19.6	16.2	24.2
71	33.1	27.3	40.9

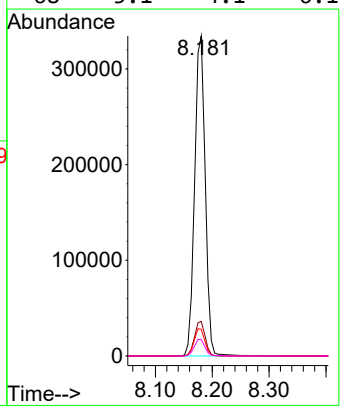


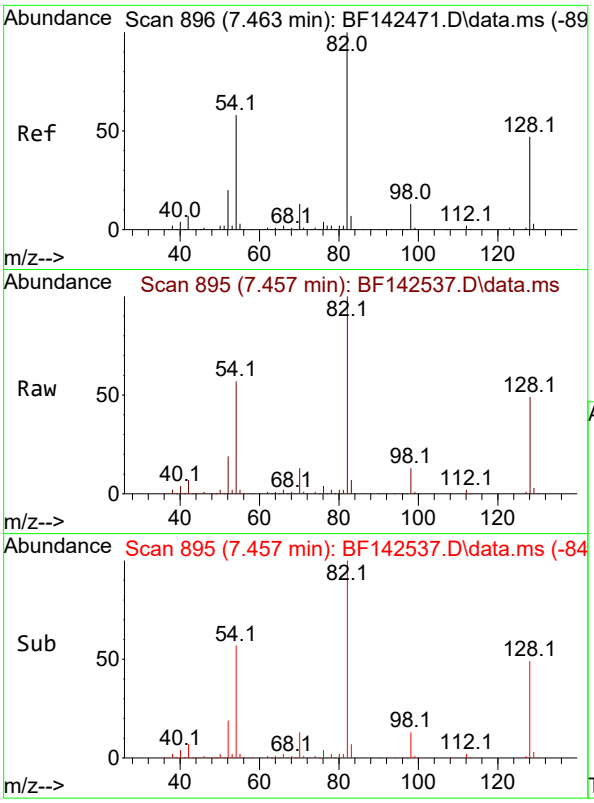


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.181 min Scan# 1018
Delta R.T. -0.006 min
Lab File: BF142537.D
Acq: 23 May 2025 16:05

Tgt Ion:136 Resp: 436187

Ion	Ratio	Lower	Upper
136	100		
137	10.8	8.6	13.0
54	8.4	6.6	10.0
68	5.1	4.1	6.1



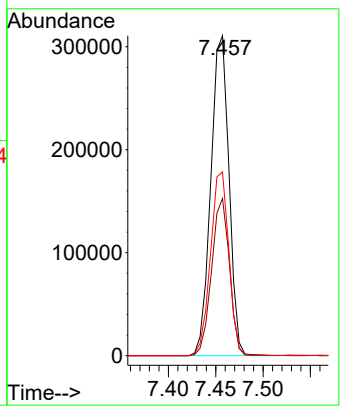


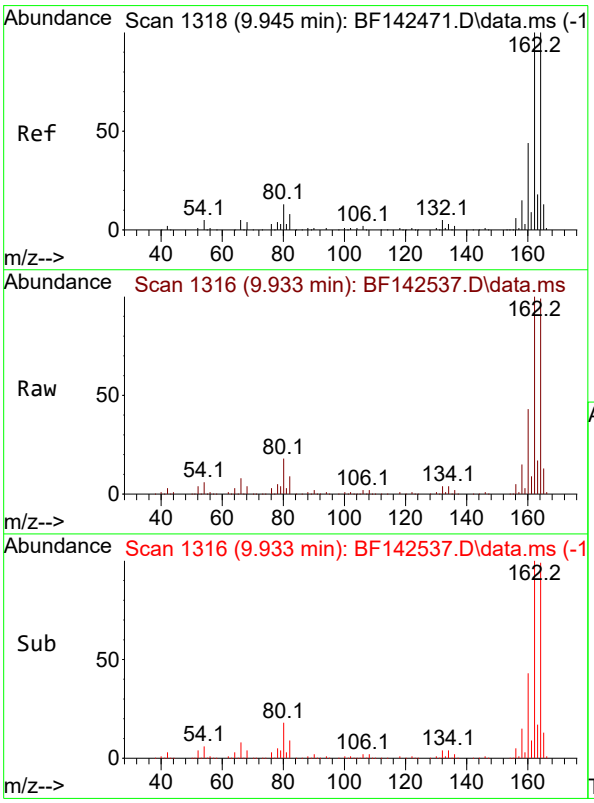
#23
Nitrobenzene-d5
Concen: 51.694 ng
RT: 7.457 min Scan# 8
Delta R.T. -0.018 min
Lab File: BF142537.D
Acq: 23 May 2025 16:05

Instrument :
BNA_F
ClientSampleId :
TP-16

Tgt Ion: 82 Resp: 413511

Ion	Ratio	Lower	Upper
82	100		
128	49.2	37.4	56.2
54	57.5	46.6	70.0

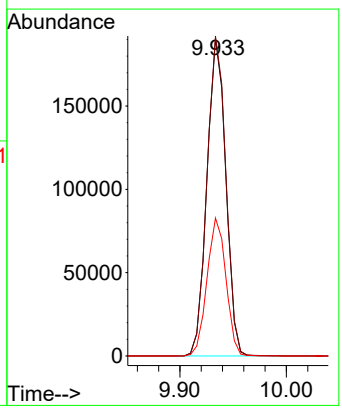


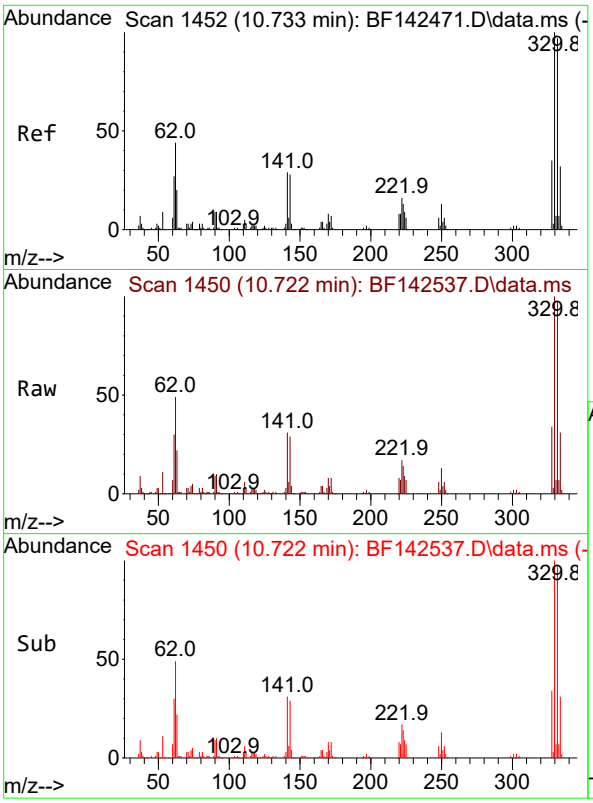


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.933 min Scan# 1316
Delta R.T. -0.012 min
Lab File: BF142537.D
Acq: 23 May 2025 16:05

Tgt Ion:164 Resp: 233620

Ion	Ratio	Lower	Upper
164	100		
162	100.9	80.2	120.4
160	43.5	35.6	53.4



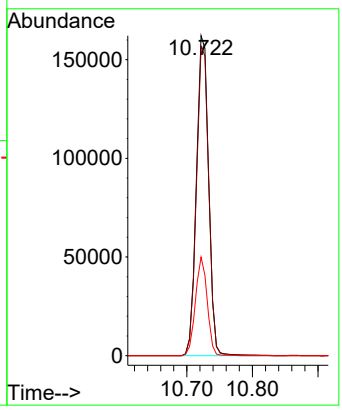


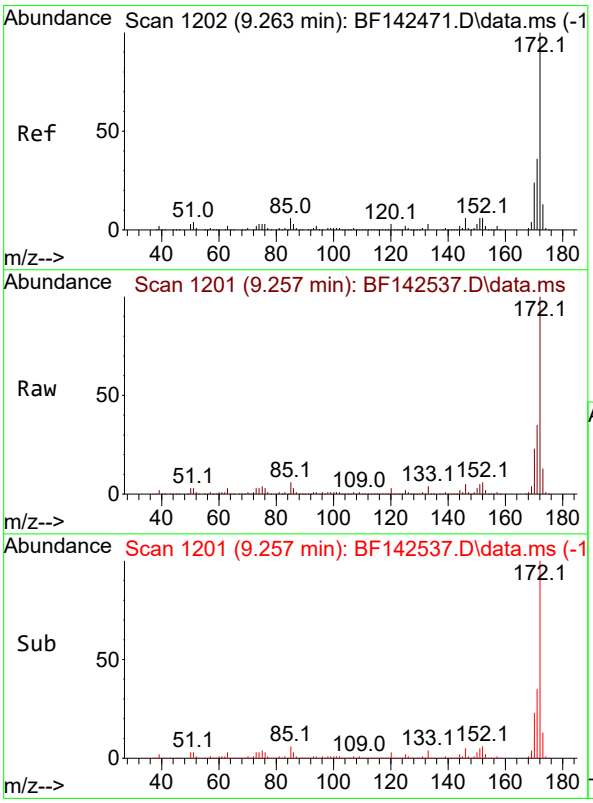
#42
2,4,6-Tribromophenol
Concen: 81.484 ng
RT: 10.722 min Scan# 14
Delta R.T. -0.018 min
Lab File: BF142537.D
Acq: 23 May 2025 16:05

Instrument :
BNA_F
ClientSampleId :
TP-16

Tgt Ion:330 Resp: 211280

Ion	Ratio	Lower	Upper
330	100		
332	96.8	77.6	116.4
141	29.6	24.6	36.8

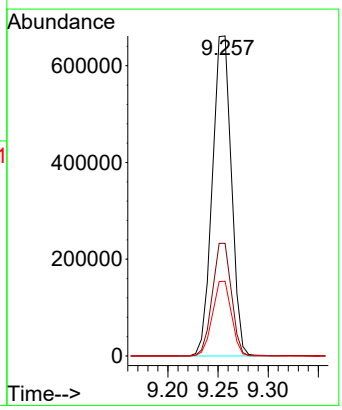


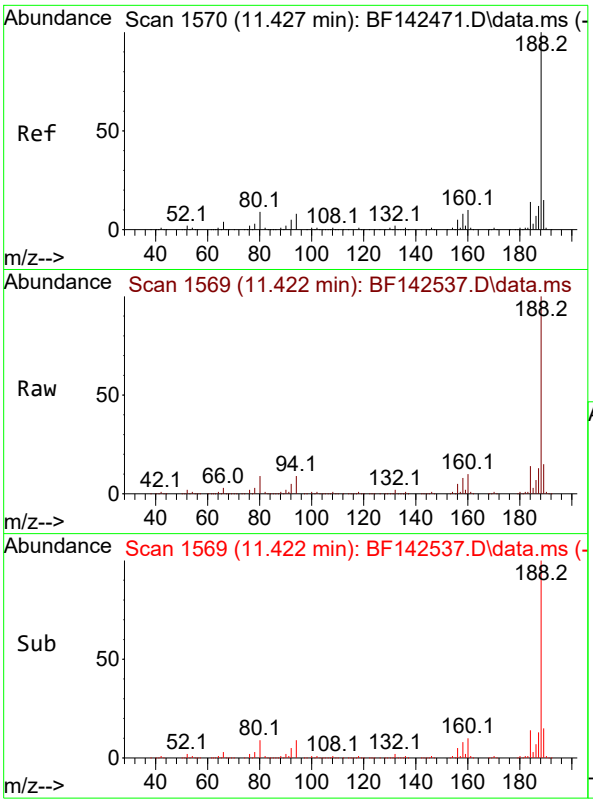


#45
2-Fluorobiphenyl
Concen: 50.118 ng
RT: 9.257 min Scan# 1201
Delta R.T. -0.012 min
Lab File: BF142537.D
Acq: 23 May 2025 16:05

Tgt Ion:172 Resp: 872556

Ion	Ratio	Lower	Upper
172	100		
171	35.2	28.6	42.8
170	23.3	18.9	28.3



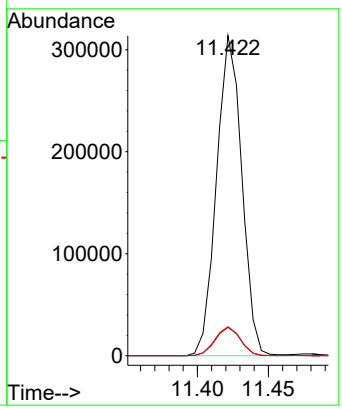


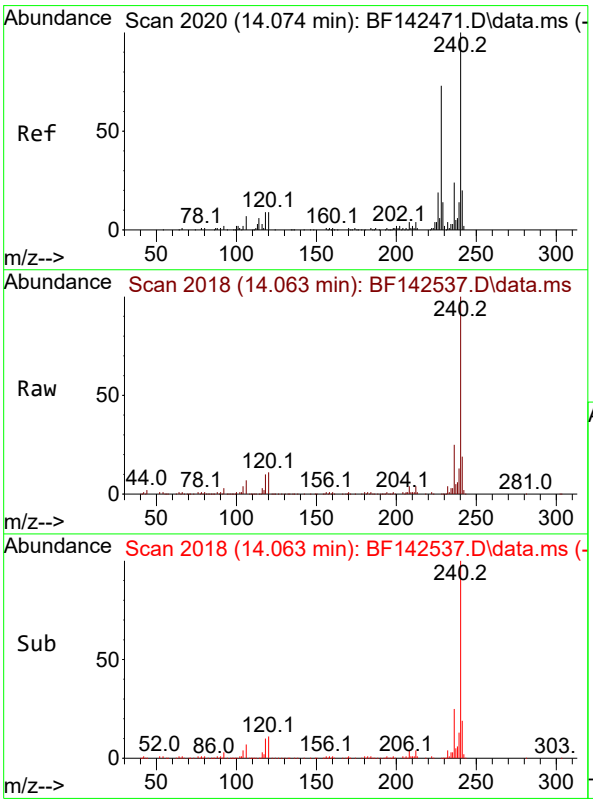
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.422 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF142537.D
Acq: 23 May 2025 16:05

Instrument :
BNA_F
ClientSampleId :
TP-16

Tgt Ion:188 Resp: 387454

Ion	Ratio	Lower	Upper
188	100		
94	8.9	6.6	10.0
80	9.1	7.4	11.0

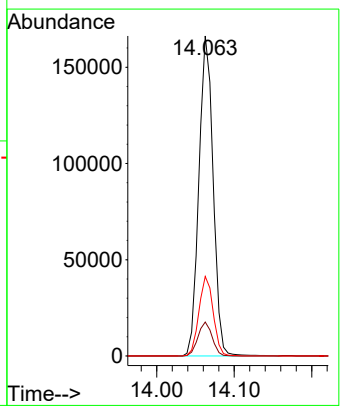


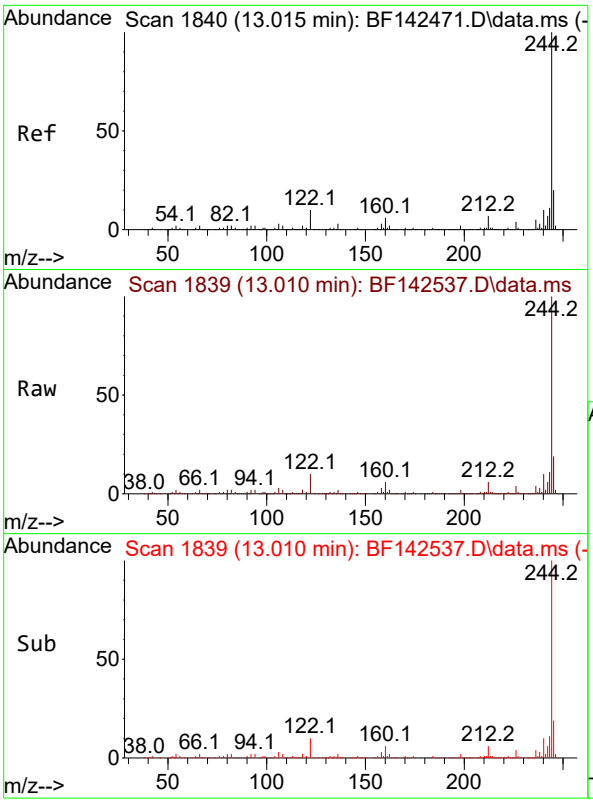


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.063 min Scan# 2018
Delta R.T. -0.012 min
Lab File: BF142537.D
Acq: 23 May 2025 16:05

Tgt Ion:240 Resp: 212215

Ion	Ratio	Lower	Upper
240	100		
120	10.6	7.5	11.3
236	24.9	19.6	29.4



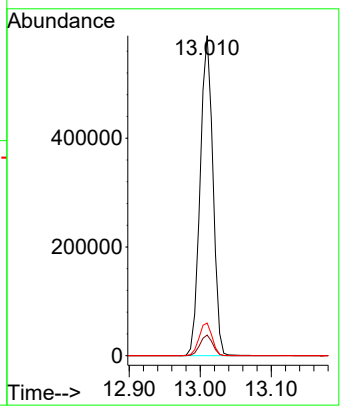


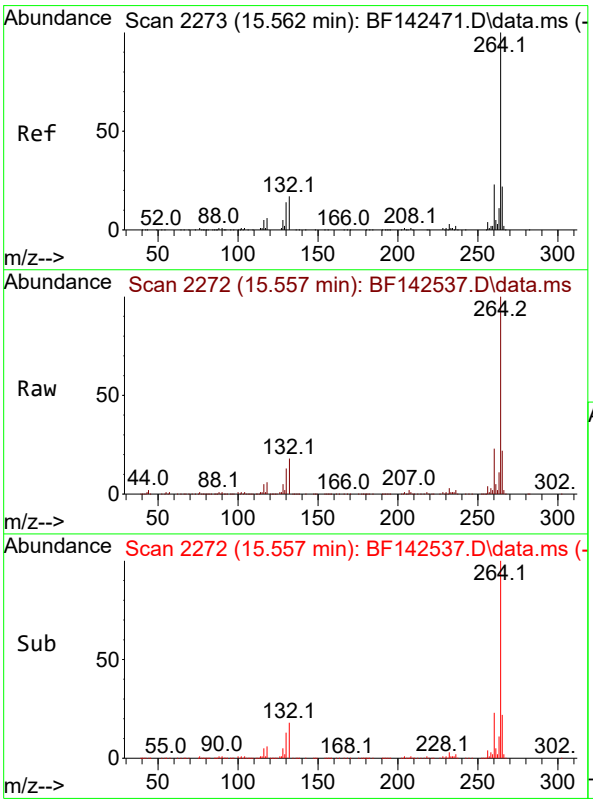
#79
Terphenyl-d14
Concen: 47.529 ng
RT: 13.010 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF142537.D
Acq: 23 May 2025 16:05

Instrument :
BNA_F
ClientSampleId :
TP-16

Tgt Ion:244 Resp: 738092

Ion	Ratio	Lower	Upper
244	100		
212	6.4	5.3	7.9
122	10.2	8.2	12.2

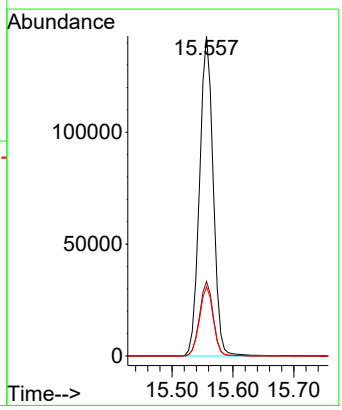




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.557 min Scan# 2272
Delta R.T. -0.012 min
Lab File: BF142537.D
Acq: 23 May 2025 16:05

Tgt Ion:264 Resp: 222870

Ion	Ratio	Lower	Upper
264	100		
260	23.3	18.6	28.0
265	21.6	17.7	26.5



Sample Results: **BF142537.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052325\
Data File : BF142537.D
Acq On : 23 May 2025 16:05
Operator : RC/JU
Sample : Q2100-01
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-16

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: BF142537.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	5.116	488	497	507	rBV	143192	213128	8.69%	1.228%
2	5.510	558	564	569	rBV	1446528	1915190	78.09%	11.036%
3	6.516	728	735	740	rBV	1460947	1978380	80.66%	11.400%
4	6.892	794	799	805	rBV	505448	643300	26.23%	3.707%
5	7.457	888	895	900	rBV	957563	1270657	51.81%	7.322%
6	7.710	933	938	946	rVB	25095	31754	1.29%	0.183%
7	8.181	1012	1018	1035	rVB	654022	862248	35.16%	4.969%
8	9.251	1194	1200	1206	rBV	1882534	2452664	100.00%	14.133%
9	9.933	1311	1316	1321	rBV	789156	967697	39.45%	5.576%
10	10.645	1432	1437	1445	rVB	348678	432081	17.62%	2.490%
11	10.722	1445	1450	1462	rBV	1192125	1514393	61.74%	8.726%
12	11.080	1507	1511	1522	rBV	31571	47445	1.93%	0.273%
13	11.422	1564	1569	1574	rBV	752976	927984	37.84%	5.347%
14	11.869	1640	1645	1652	rBV	43041	66957	2.73%	0.386%
15	11.945	1653	1658	1681	rVB	338176	533569	21.75%	3.075%
16	12.198	1697	1701	1709	rVB2	18033	24639	1.00%	0.142%
17	12.651	1773	1778	1786	rBV4	14925	30400	1.24%	0.175%
18	12.733	1787	1792	1803	rVB	35899	62720	2.56%	0.361%
19	13.010	1833	1839	1844	rBV	1522341	1914350	78.05%	11.031%
20	13.904	1986	1991	2000	rBV	61466	109949	4.48%	0.634%
21	14.063	2013	2018	2024	rBV	436408	549583	22.41%	3.167%
22	14.921	2159	2164	2172	rBV	137872	189139	7.71%	1.090%
23	15.557	2265	2272	2287	rBV	377783	615981	25.11%	3.549%

Sum of corrected areas: 17354208

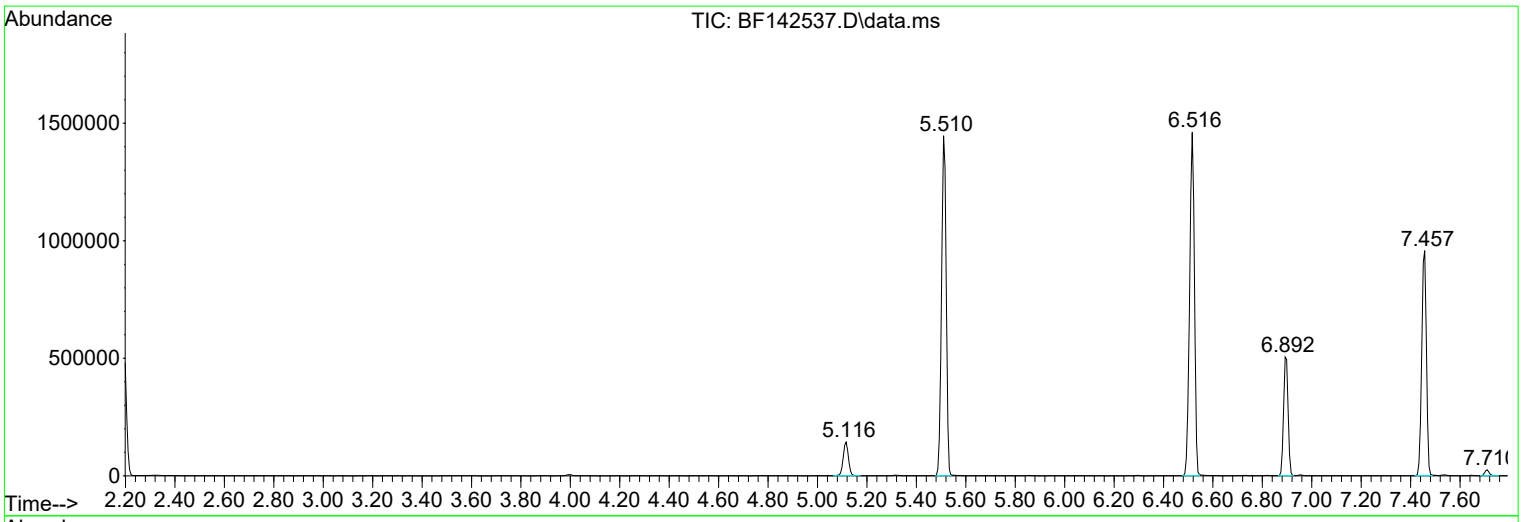
Sample Results: **BF142537.D**

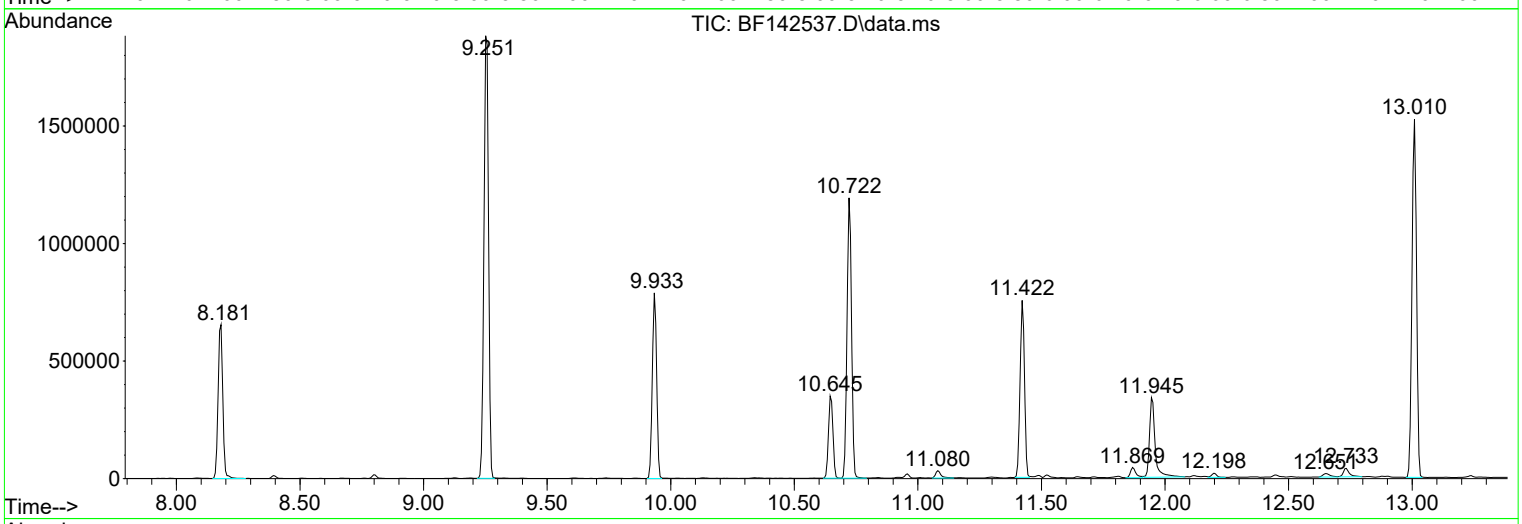
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052325\
Data File : BF142537.D
Acq On : 23 May 2025 16:05
Operator : RC/JU
Sample : Q2100-01
Misc :
ALS Vial : 12 Sample Multiplier: 1

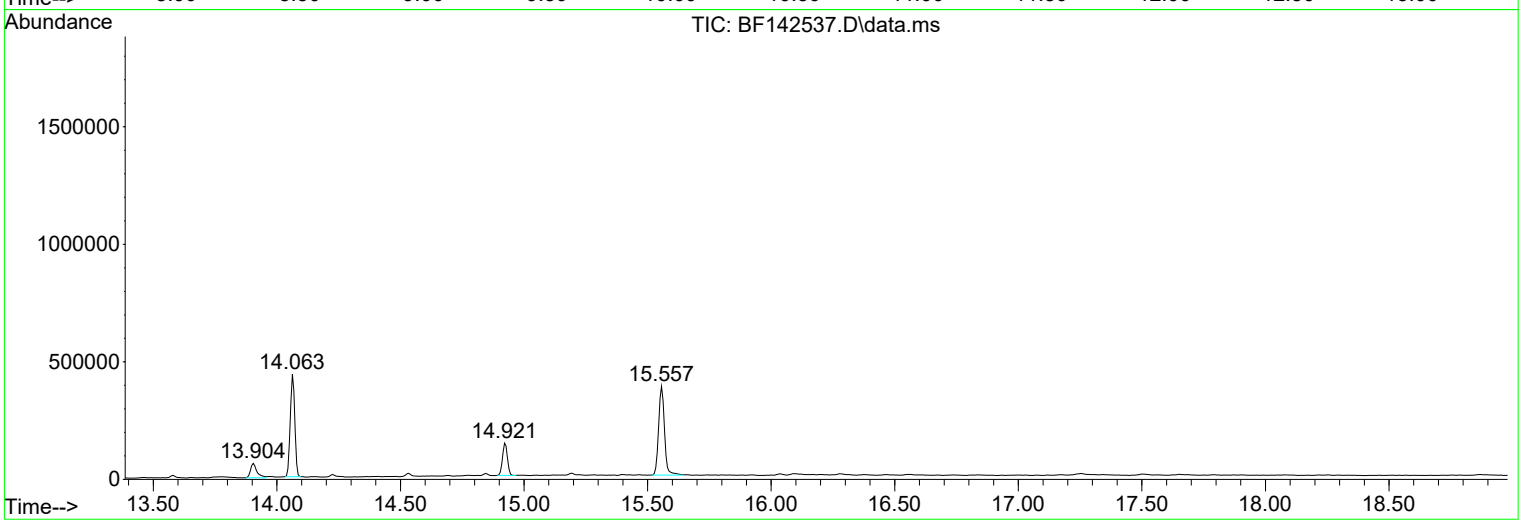
Instrument :
BNA_F
ClientSampleId :
TP-16

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\BF052325\
Data File : BF142537.D
Acq On : 23 May 2025 16:05
Operator : RC/JU
Sample : Q2100-01
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-16

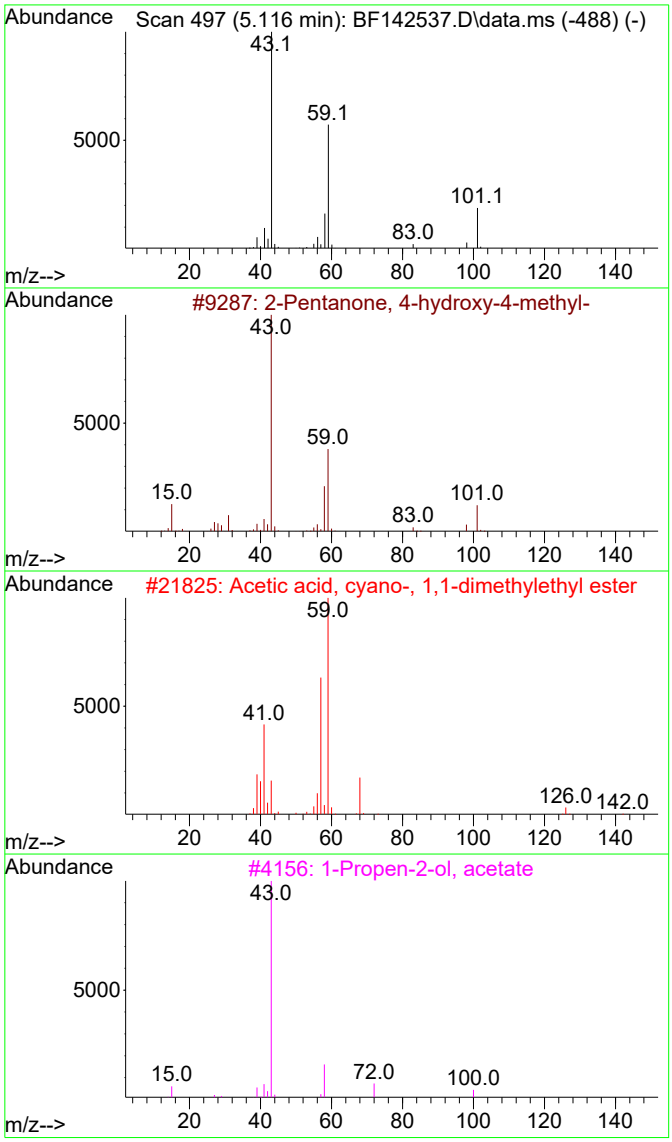
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

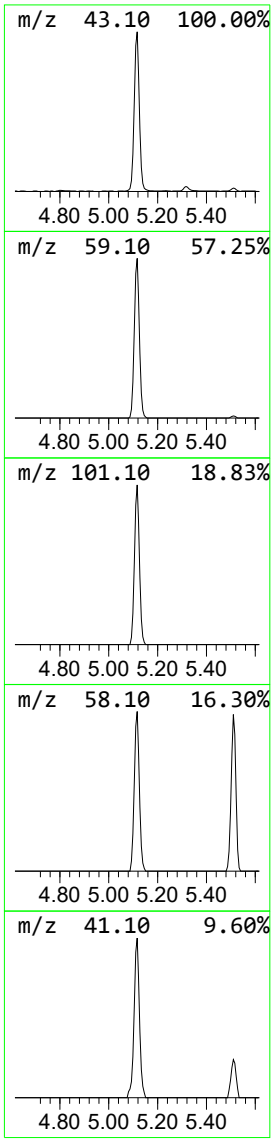
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 1 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.116	6.63 ng	213128	1,4-Dichlorobenzene-d4	6.898

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	32
3	1-Propen-2-ol, acetate	100	C5H8O2	000108-22-5	12
4	Butyl aldoxime, 3-methyl-, syn-	101	C5H11NO	005780-40-5	9
5	Propanoic acid, 2-nitro-, methyl...	133	C4H7NO4	006118-50-9	9





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052325\
Data File : BF142537.D
Acq On : 23 May 2025 16:05
Operator : RC/JU
Sample : Q2100-01
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-16

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

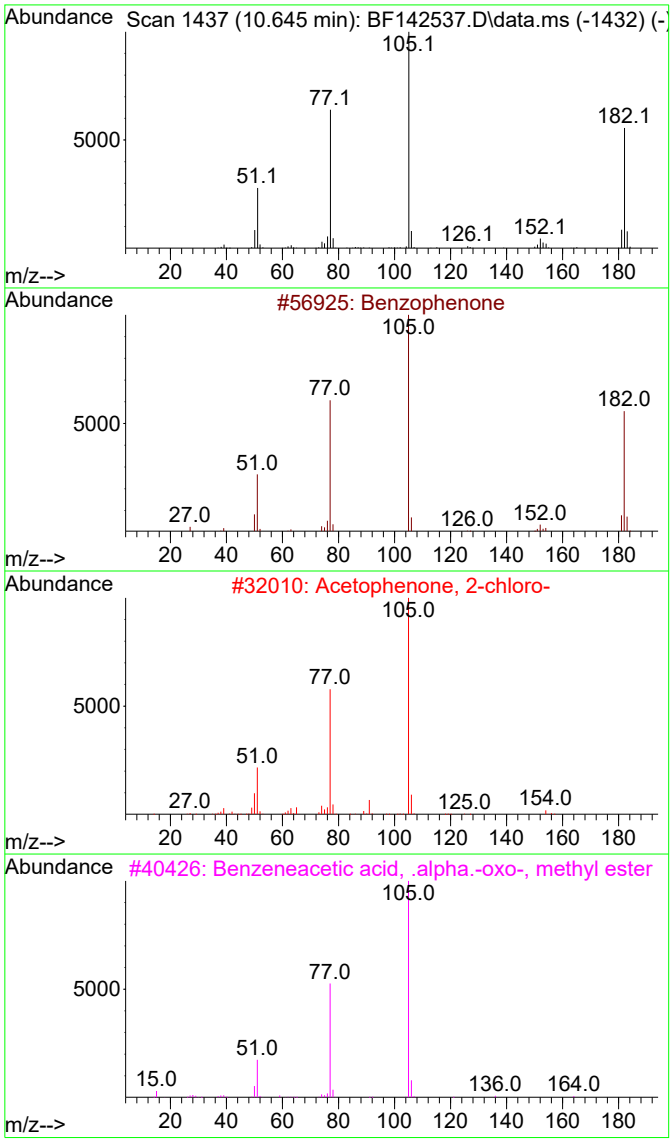
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

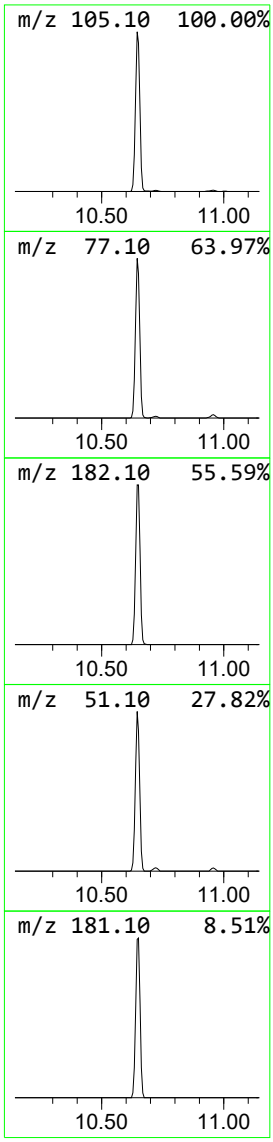
****

Peak Number 2 Benzophenone Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.645	8.93 ng	432081	Acenaphthene-d10	9.933

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzophenone	182	C13H10O	000119-61-9	96
2	Acetophenone, 2-chloro-	154	C8H7ClO	000532-27-4	49
3	Benzeneacetic acid, .alpha.-oxo-...	164	C9H8O3	015206-55-0	49
4	1-Propanone, 2-bromo-1-phenyl-	212	C9H9BrO	002114-00-3	47
5	Benzenebutanoic acid, .gamma.-oxo-	178	C10H10O3	002051-95-8	47





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Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052325\
Data File : BF142537.D
Acq On    : 23 May 2025  16:05
Operator  : RC/JU
Sample    : Q2100-01
Misc      :
ALS Vial  : 12   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
```

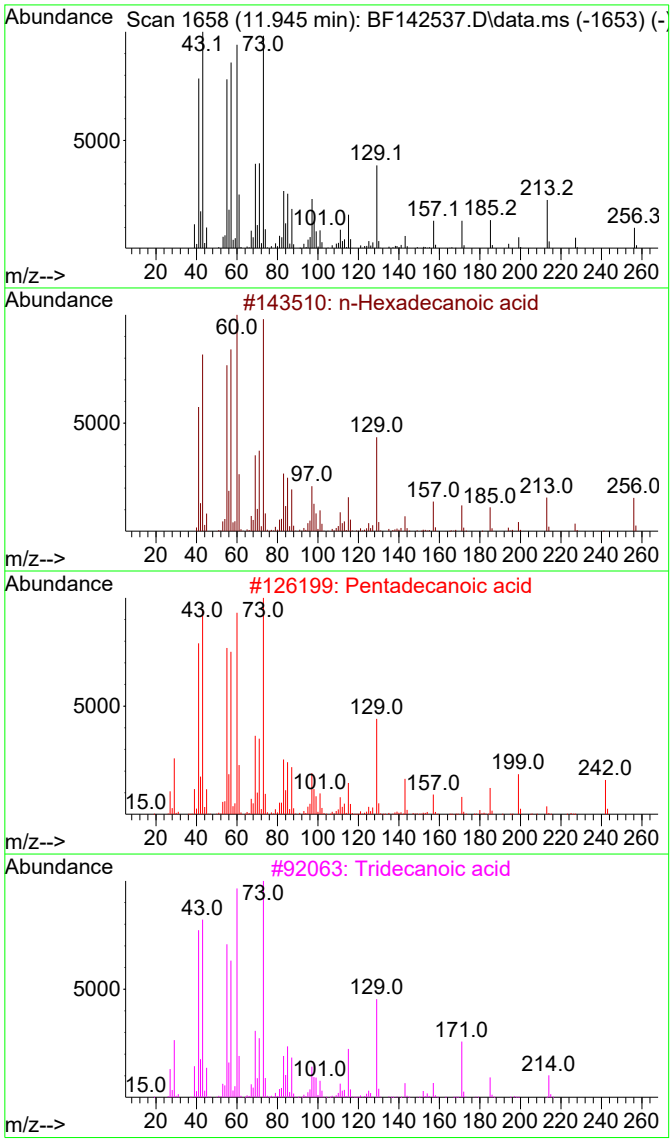
Instrument :
BNA_F
ClientSampleId :
TP-16

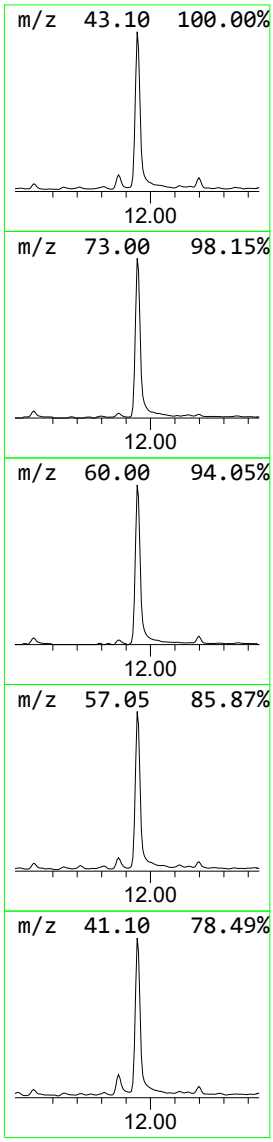
****

Peak Number 3 n-Hexadecanoic acid Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.945	11.50 ng	533569	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	74
5	n-Decanoic acid	172	C10H20O2	000334-48-5	62





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Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052325\
Data File : BF142537.D
Acq On    : 23 May 2025  16:05
Operator  : RC/JU
Sample    : Q2100-01
Misc      :
ALS Vial  : 12   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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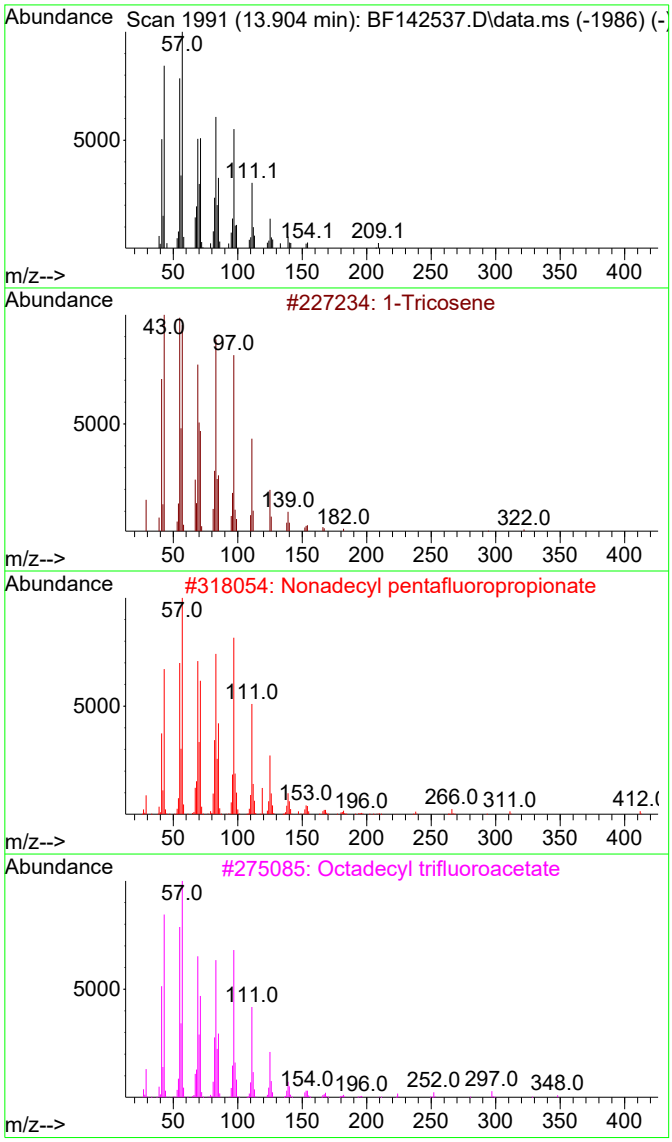
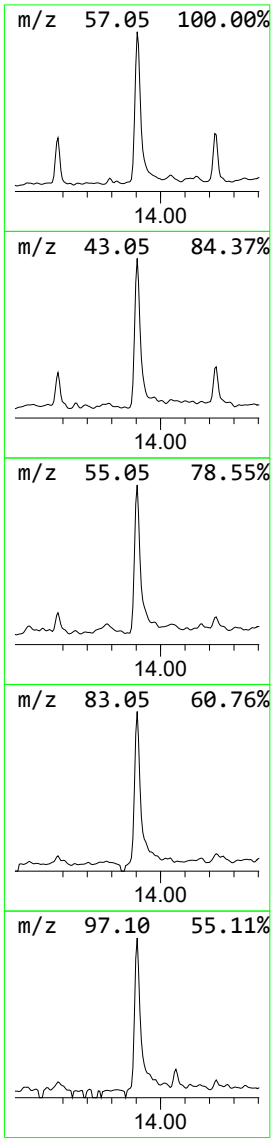
Instrument :
BNA_F
ClientSampleId :
TP-16

Peak Number 4 1-Tricosene Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.904	4.00 ng	109949	Chrysene-d12	14.063

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Tricosene	322	C23H46	018835-32-0	93
2	Nonadecyl pentafluoropropionate	430	C22H39F5O2	1000351-88-8	91
3	Octadecyl trifluoroacetate	366	C20H37F3O2	079392-43-1	91
4	Tricosyl trifluoroacetate	436	C25H47F3O2	1000351-75-1	91
5	Heneicosyl heptafluorobutyrate	508	C25H43F7O2	1000351-83-8	91





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Data File : BF142537.D
Acq On    : 23 May 2025  16:05
Operator  : RC/JU
Sample    : Q2100-01
Misc      :
ALS Vial  : 12   Sample Multiplier: 1

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title  : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

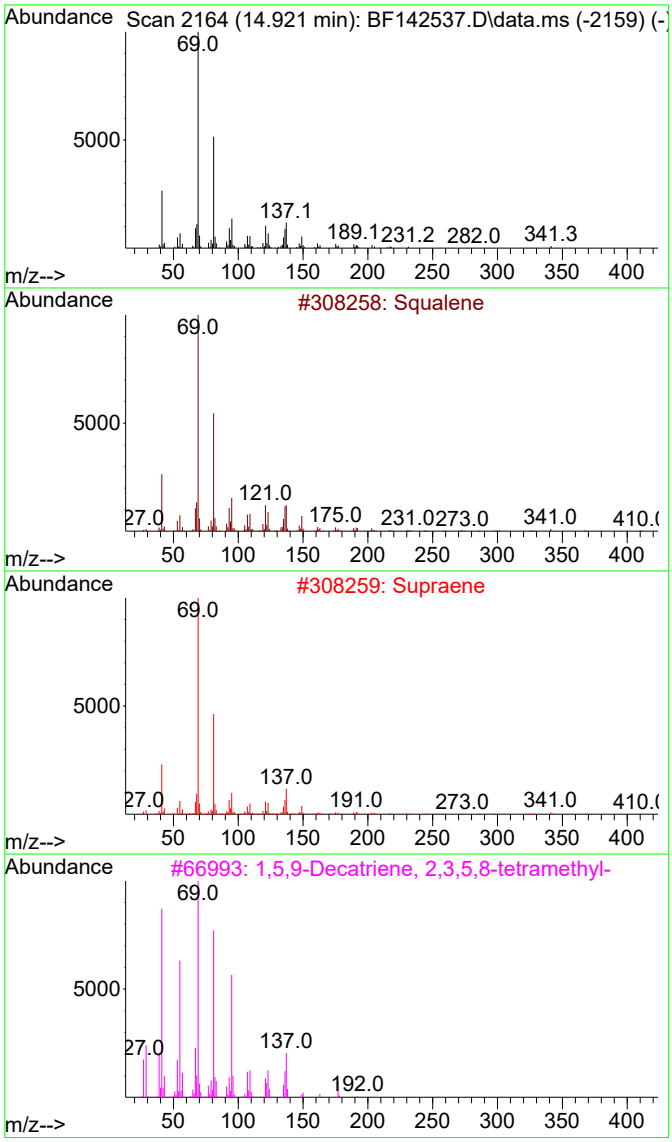
TIC Library   : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P
```

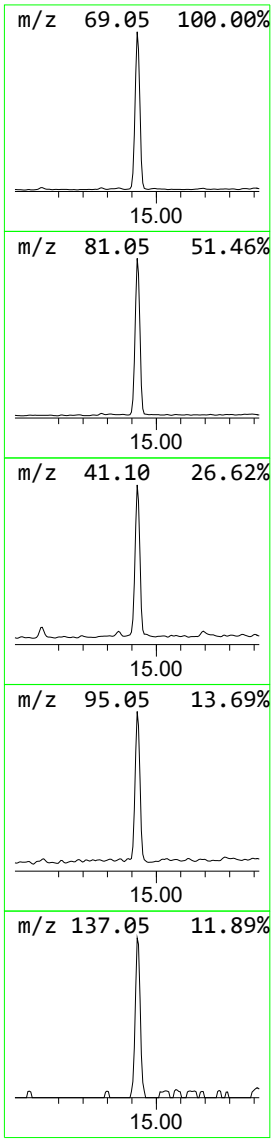
Instrument :
BNA_F
ClientSampleId :
TP-16

Peak Number 5 Squalene Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.921	6.14 ng	189139	Perylene-d12	15.557

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Squalene	410	C30H50	000111-02-4	91
2	Supraene	410	C30H50	007683-64-9	91
3	1,5,9-Decatriene, 2,3,5,8-tetram...	192	C14H24	230646-72-7	72
4	Farnesol isomer a	222	C15H26O	1000108-92-4	64
5	1,5-Heptadiene, 3,3,6-trimethyl-	138	C10H18	035387-63-4	52





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Data File : BF142537.D
Acq On : 23 May 2025 16:05
Operator : RC/JU
Sample : Q2100-01
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-16

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-...	5.116	6.6	ng	213128	1	6.898	643300	20.0
Benzophenone	10.645	8.9	ng	432081	3	9.933	967697	20.0
n-Hexadecanoic ...	11.945	11.5	ng	533569	4	11.422	927984	20.0
1-Tricosene	13.904	4.0	ng	109949	5	14.063	549583	20.0
Squalene	14.921	6.1	ng	189139	6	15.557	615981	20.0

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052325\
Data File : BF142536.D
Acq On : 23 May 2025 15:37
Operator : RC/JU
Sample : Q2100-02
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-22

Quant Time: May 23 16:39:13 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

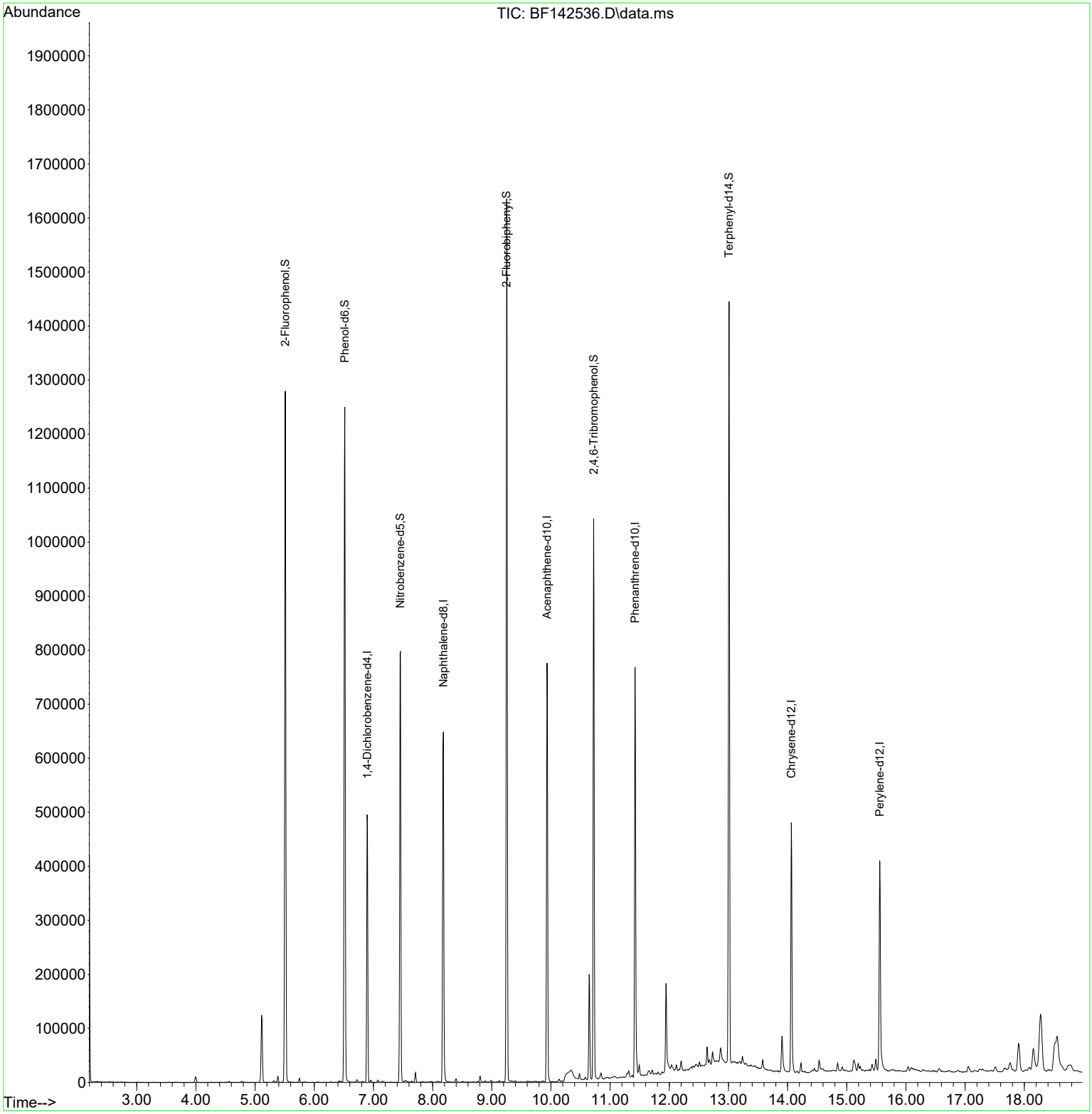
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.898	152	111473	20.000	ng	0.00
21) Naphthalene-d8	8.181	136	430329	20.000	ng	0.00
39) Acenaphthene-d10	9.933	164	234472	20.000	ng	-0.01
64) Phenanthrene-d10	11.422	188	390498	20.000	ng	-0.01
76) Chrysene-d12	14.063	240	216372	20.000	ng	#-0.01
86) Perylene-d12	15.557	264	220082	20.000	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.510	112	476798	72.061	ng	0.00
7) Phenol-d6	6.516	99	586338	73.616	ng	-0.02
23) Nitrobenzene-d5	7.451	82	352889	44.716	ng	-0.02
42) 2,4,6-Tribromophenol	10.722	330	180939	69.529	ng	-0.02
45) 2-Fluorobiphenyl	9.251	172	752874	43.086	ng	-0.02
79) Terphenyl-d14	13.010	244	677960	42.818	ng	0.00
Target Compounds						Qvalue

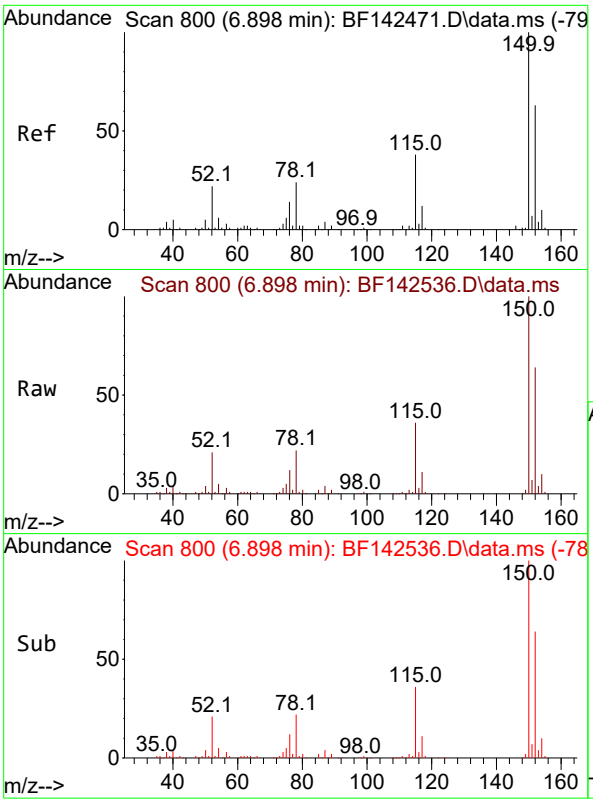
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052325\
Data File : BF142536.D
Acq On : 23 May 2025 15:37
Operator : RC/JU
Sample : Q2100-02
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-22

Quant Time: May 23 16:39:13 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



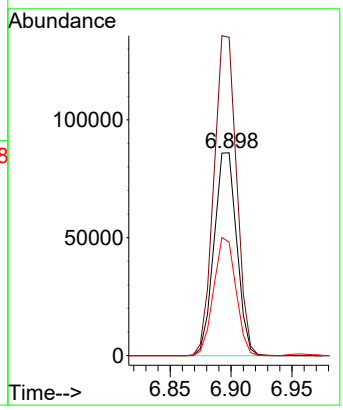


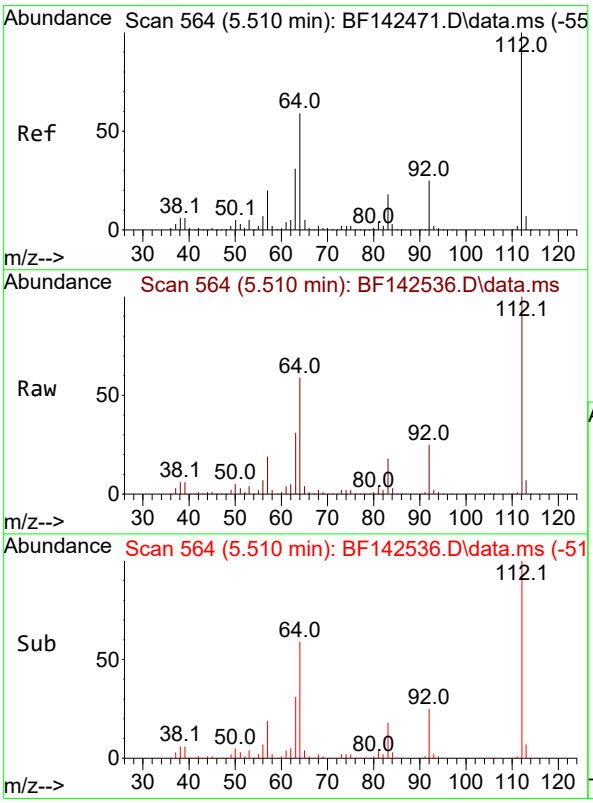
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.898 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF142536.D
Acq: 23 May 2025 15:37

Instrument :
BNA_F
ClientSampleId :
TP-22

Tgt Ion:152 Resp: 111473

Ion	Ratio	Lower	Upper
152	100		
150	157.0	128.2	192.4
115	56.0	48.3	72.5

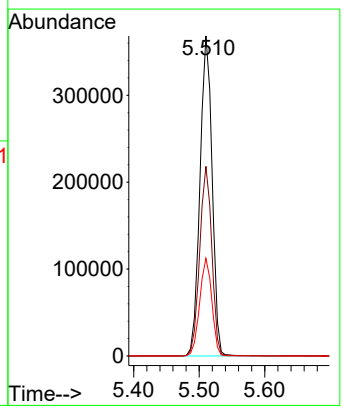


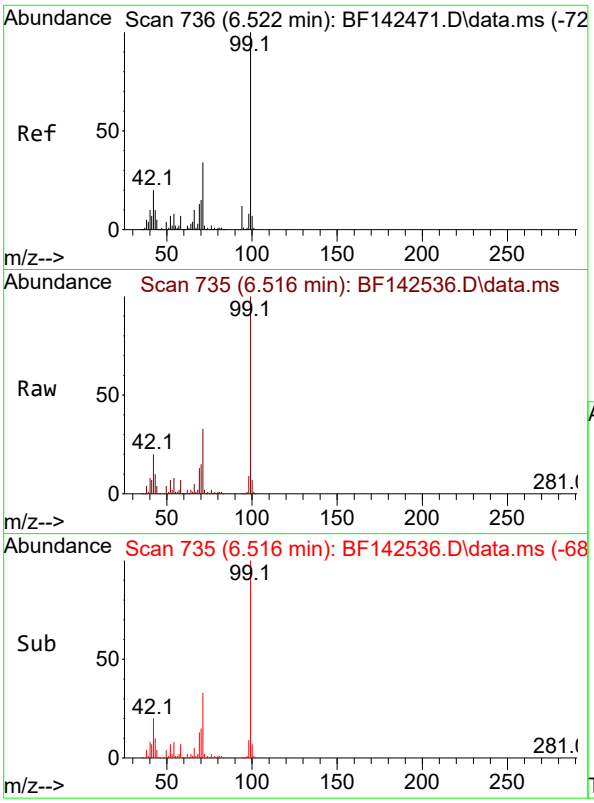


#5
2-Fluorophenol
Concen: 72.061 ng
RT: 5.510 min Scan# 564
Delta R.T. -0.006 min
Lab File: BF142536.D
Acq: 23 May 2025 15:37

Tgt Ion:112 Resp: 476798

Ion	Ratio	Lower	Upper
112	100		
64	59.2	47.5	71.3
63	30.5	24.9	37.3



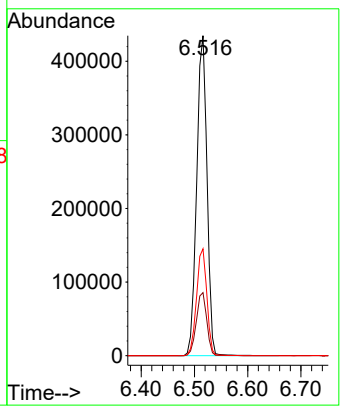


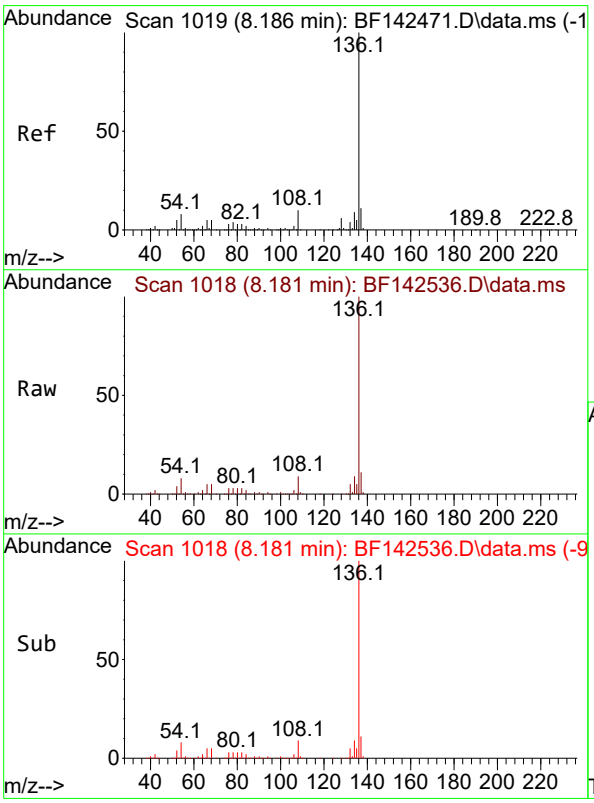
#7
Phenol-d6
Concen: 73.616 ng
RT: 6.516 min Scan# 7
Delta R.T. -0.018 min
Lab File: BF142536.D
Acq: 23 May 2025 15:37

Instrument :
BNA_F
ClientSampleId :
TP-22

Tgt Ion: 99 Resp: 586338

Ion	Ratio	Lower	Upper
99	100		
42	19.7	16.2	24.2
71	33.4	27.3	40.9

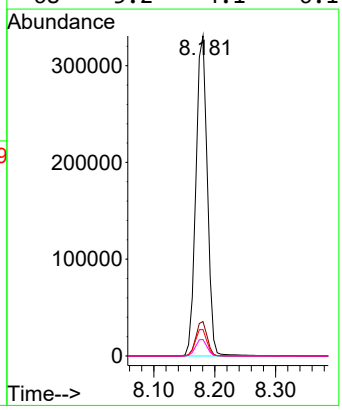


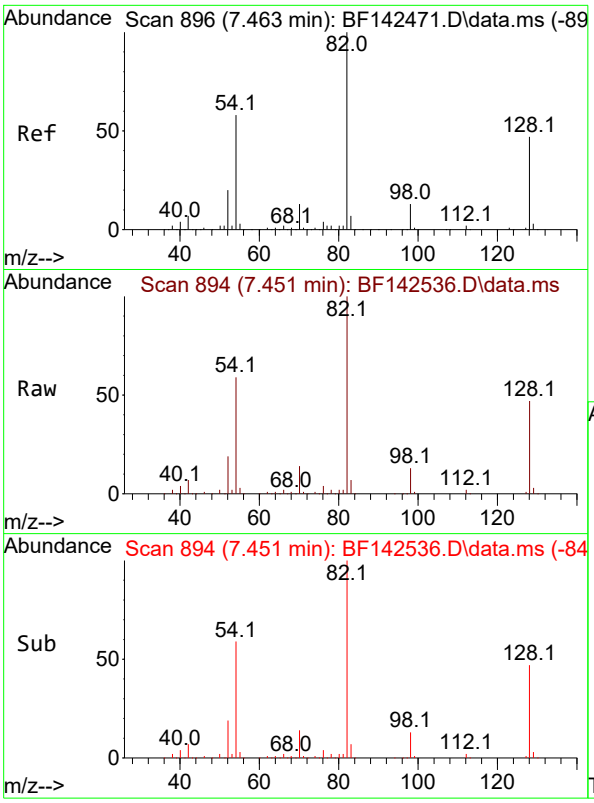


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.181 min Scan# 1018
Delta R.T. -0.006 min
Lab File: BF142536.D
Acq: 23 May 2025 15:37

Tgt Ion:136 Resp: 430329

Ion	Ratio	Lower	Upper
136	100		
137	10.7	8.6	13.0
54	8.2	6.6	10.0
68	5.2	4.1	6.1



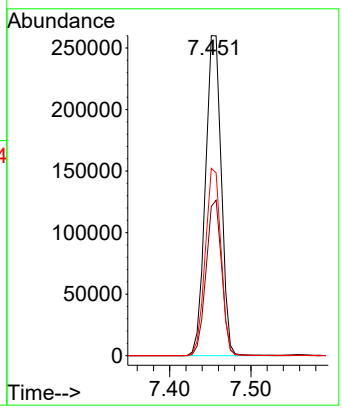


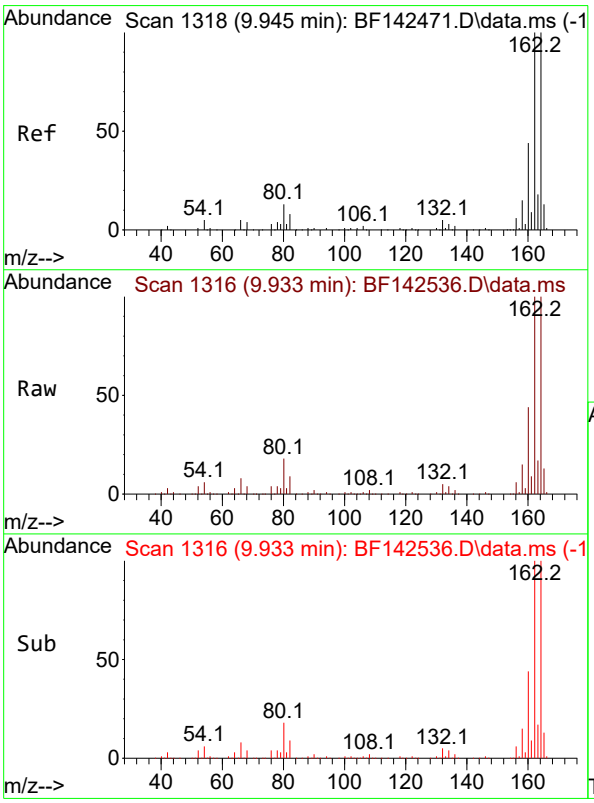
#23
Nitrobenzene-d5
Concen: 44.716 ng
RT: 7.451 min Scan# 8
Delta R.T. -0.023 min
Lab File: BF142536.D
Acq: 23 May 2025 15:37

Instrument :
BNA_F
ClientSampleId :
TP-22

Tgt Ion: 82 Resp: 352889

Ion	Ratio	Lower	Upper
82	100		
128	46.6	37.4	56.2
54	58.6	46.6	70.0

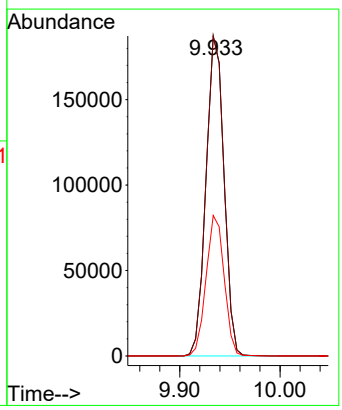


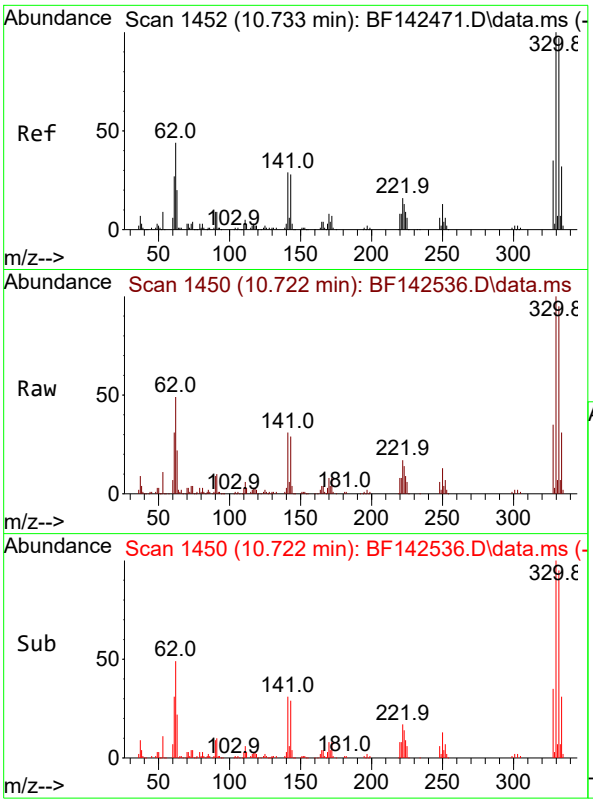


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.933 min Scan# 1316
Delta R.T. -0.012 min
Lab File: BF142536.D
Acq: 23 May 2025 15:37

Tgt Ion:164 Resp: 234472

Ion	Ratio	Lower	Upper
164	100		
162	100.0	80.2	120.4
160	43.9	35.6	53.4



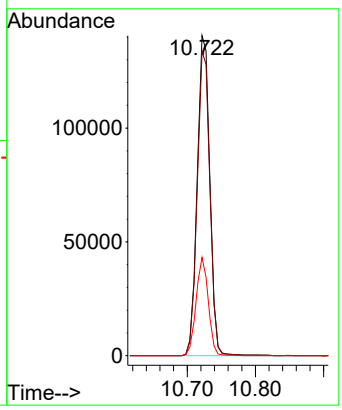


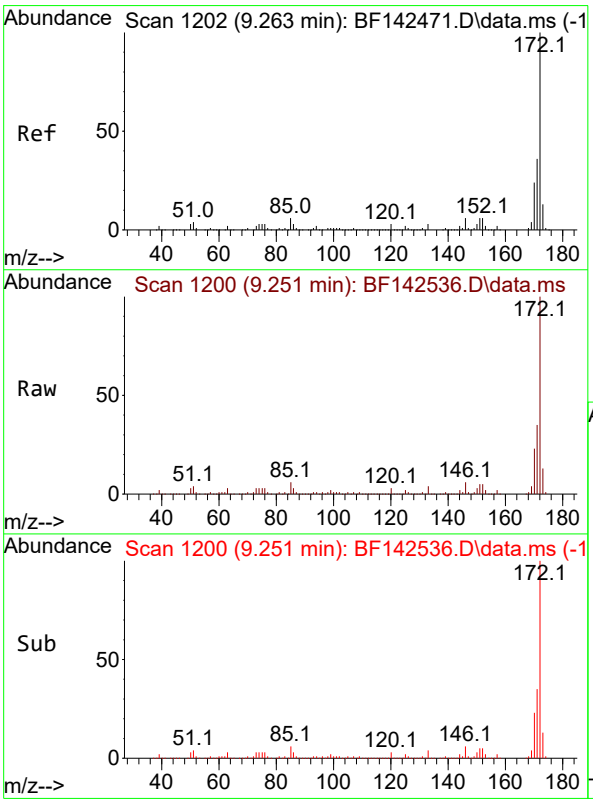
#42
2,4,6-Tribromophenol
Concen: 69.529 ng
RT: 10.722 min Scan# 14
Delta R.T. -0.018 min
Lab File: BF142536.D
Acq: 23 May 2025 15:37

Instrument :
BNA_F
ClientSampleId :
TP-22

Tgt Ion:330 Resp: 180939

Ion	Ratio	Lower	Upper
330	100		
332	95.3	77.6	116.4
141	29.7	24.6	36.8

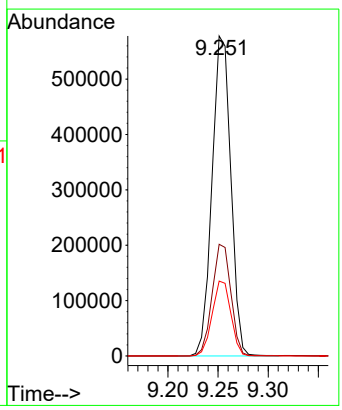


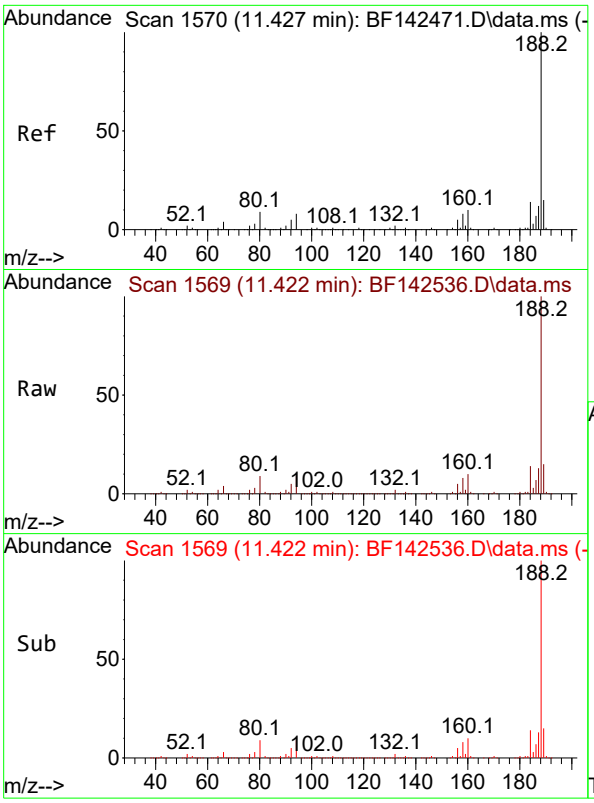


#45
2-Fluorobiphenyl
Concen: 43.086 ng
RT: 9.251 min Scan# 1200
Delta R.T. -0.018 min
Lab File: BF142536.D
Acq: 23 May 2025 15:37

Tgt Ion:172 Resp: 752874

Ion	Ratio	Lower	Upper
172	100		
171	34.9	28.6	42.8
170	23.4	18.9	28.3



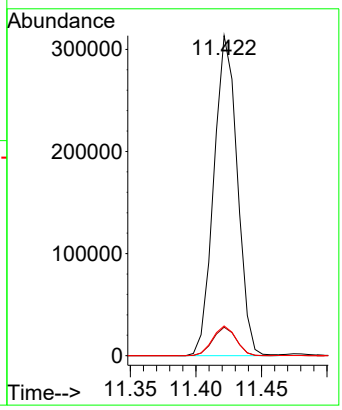


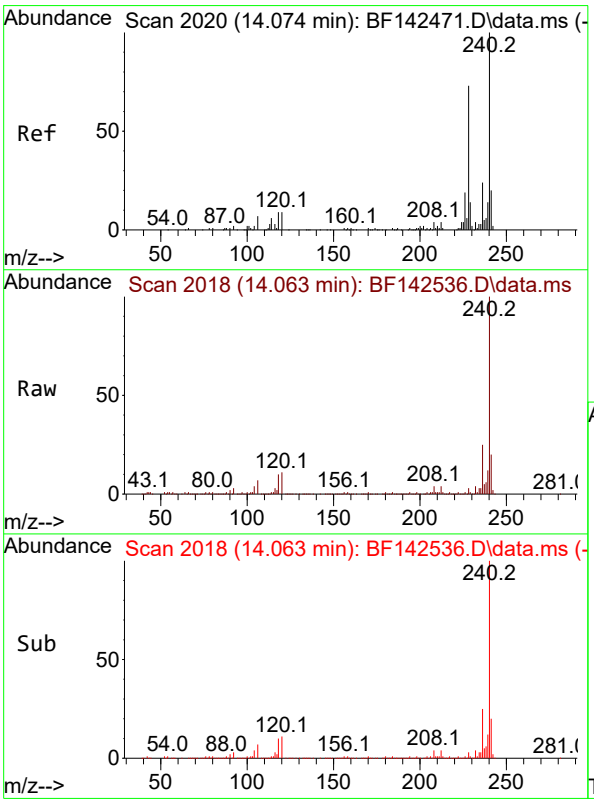
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.422 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF142536.D
Acq: 23 May 2025 15:37

Instrument :
BNA_F
ClientSampleId :
TP-22

Tgt Ion:188 Resp: 390498

Ion	Ratio	Lower	Upper
188	100		
94	8.9	6.6	10.0
80	9.3	7.4	11.0

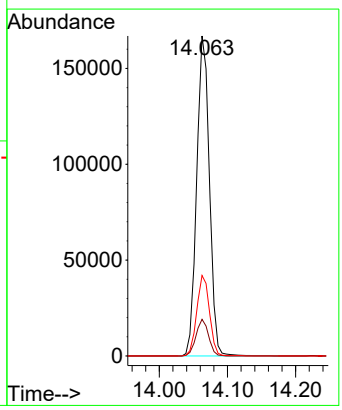


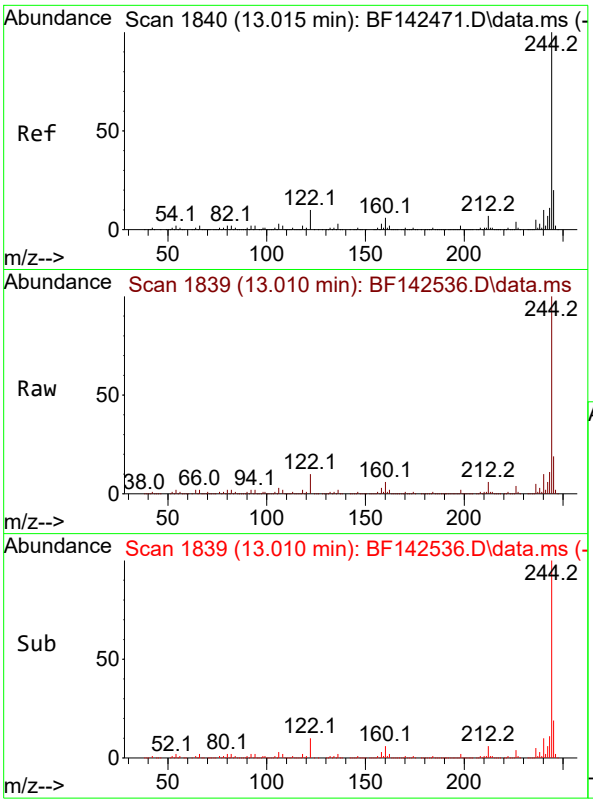


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.063 min Scan# 2018
Delta R.T. -0.012 min
Lab File: BF142536.D
Acq: 23 May 2025 15:37

Tgt Ion:240 Resp: 216372

Ion	Ratio	Lower	Upper
240	100		
120	11.5	7.5	11.3#
236	25.1	19.6	29.4



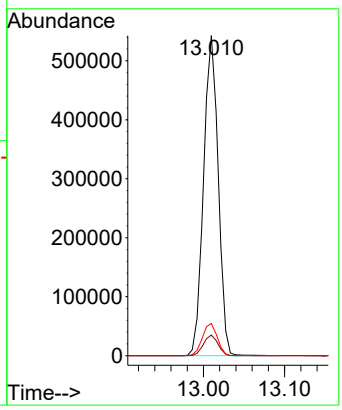


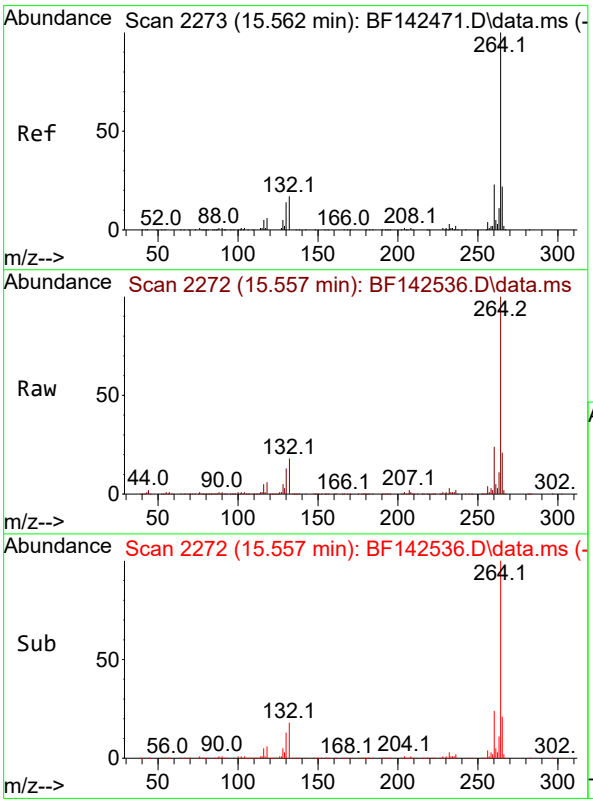
#79
Terphenyl-d14
Concen: 42.818 ng
RT: 13.010 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF142536.D
Acq: 23 May 2025 15:37

Instrument :
BNA_F
ClientSampleId :
TP-22

Tgt Ion:244 Resp: 677960

Ion	Ratio	Lower	Upper
244	100		
212	6.5	5.3	7.9
122	10.1	8.2	12.2

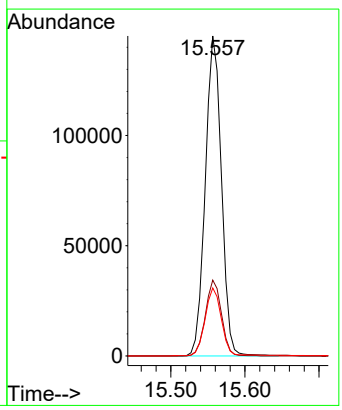




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.557 min Scan# 2272
Delta R.T. -0.012 min
Lab File: BF142536.D
Acq: 23 May 2025 15:37

Tgt Ion:264 Resp: 220082

Ion	Ratio	Lower	Upper
264	100		
260	23.7	18.6	28.0
265	21.3	17.7	26.5



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052325\
Data File : BF142536.D
Acq On : 23 May 2025 15:37
Operator : RC/JU
Sample : Q2100-02
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-22

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: BF142536.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	485	496	507	rBV	124630	185449	8.83%	1.114%
2	5.510	556	564	569	rBV	1279161	1660588	79.06%	9.975%
3	6.516	728	735	740	rBV	1249880	1692376	80.57%	10.166%
4	6.892	794	799	805	rBV	495263	631154	30.05%	3.791%
5	7.457	888	895	900	rBV	796499	1080004	51.42%	6.488%
6	7.710	933	938	945	rVB	17347	22522	1.07%	0.135%
7	8.181	1012	1018	1027	rBV	648336	860906	40.99%	5.172%
8	9.251	1195	1200	1205	rBV	1634066	2100407	100.00%	12.618%
9	9.933	1311	1316	1321	rBV	774805	967431	46.06%	5.812%
10	10.339	1362	1385	1401	rBV4	20919	172159	8.20%	1.034%
11	10.645	1432	1437	1445	rBV	194860	247997	11.81%	1.490%
12	10.722	1445	1450	1462	rVV	1037363	1309741	62.36%	7.868%
13	11.422	1564	1569	1577	rBV	758771	998712	47.55%	5.999%
14	11.492	1577	1581	1587	rVB3	19359	29868	1.42%	0.179%
15	11.945	1653	1658	1670	rBV	163194	251425	11.97%	1.510%
16	12.039	1671	1674	1682	rVB4	10669	21638	1.03%	0.130%
17	12.198	1698	1701	1708	rVB4	17187	24713	1.18%	0.148%
18	12.639	1772	1776	1780	rBV	32732	42776	2.04%	0.257%
19	12.733	1788	1792	1799	rBV5	21944	41275	1.97%	0.248%
20	12.869	1811	1815	1829	rVB2	26939	61200	2.91%	0.368%
21	13.010	1833	1839	1844	rBV	1407421	1767652	84.16%	10.619%
22	13.580	1932	1936	1945	rVB3	17617	28476	1.36%	0.171%
23	13.904	1986	1991	2008	rVB	65925	116644	5.55%	0.701%
24	14.063	2013	2018	2031	rVB	462417	630101	30.00%	3.785%
25	14.533	2094	2098	2103	rBV2	20190	32734	1.56%	0.197%
26	15.121	2193	2198	2206	rVB	19174	44719	2.13%	0.269%
27	15.492	2256	2261	2266	rVV	20380	31994	1.52%	0.192%
28	15.557	2266	2272	2288	rVV	387523	629020	29.95%	3.779%
29	17.056	2523	2527	2536	rVB3	10342	23687	1.13%	0.142%
30	17.903	2664	2671	2685	rVB2	51312	132332	6.30%	0.795%
31	18.151	2707	2713	2722	rBV	37093	101247	4.82%	0.608%
32	18.274	2725	2734	2749	rVB4	104754	363772	17.32%	2.185%
33	18.556	2767	2782	2805	rVB7	62856	341990	16.28%	2.054%

Sum of corrected areas: 16646709

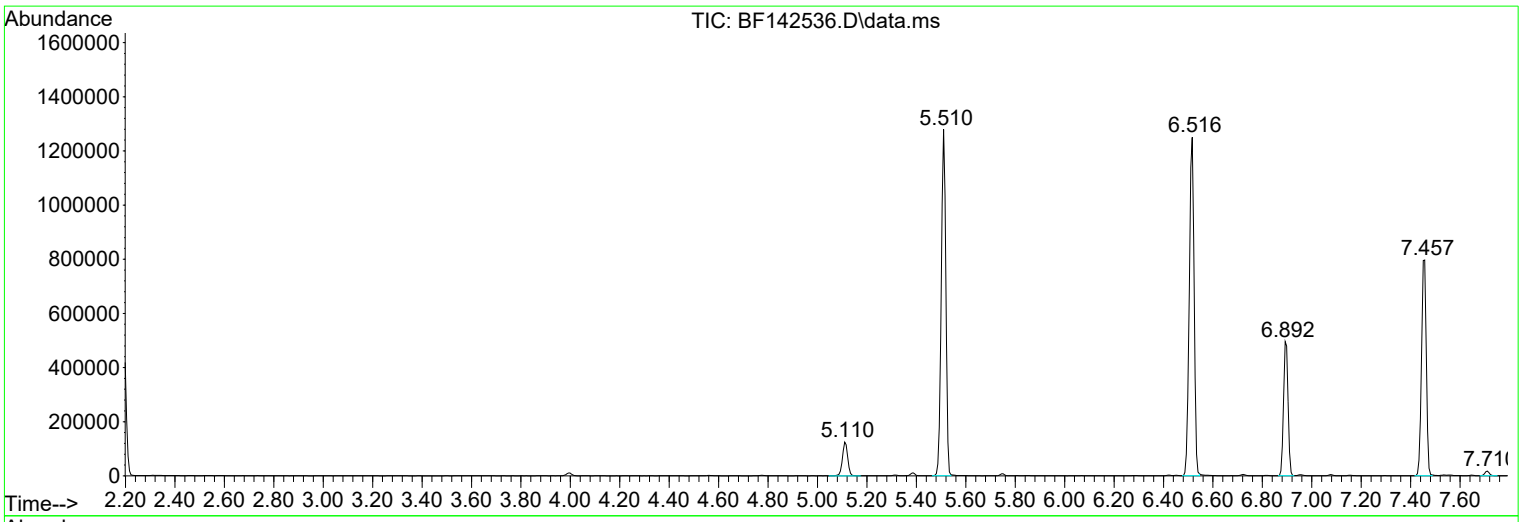
Sample Results: **BF142536.D**

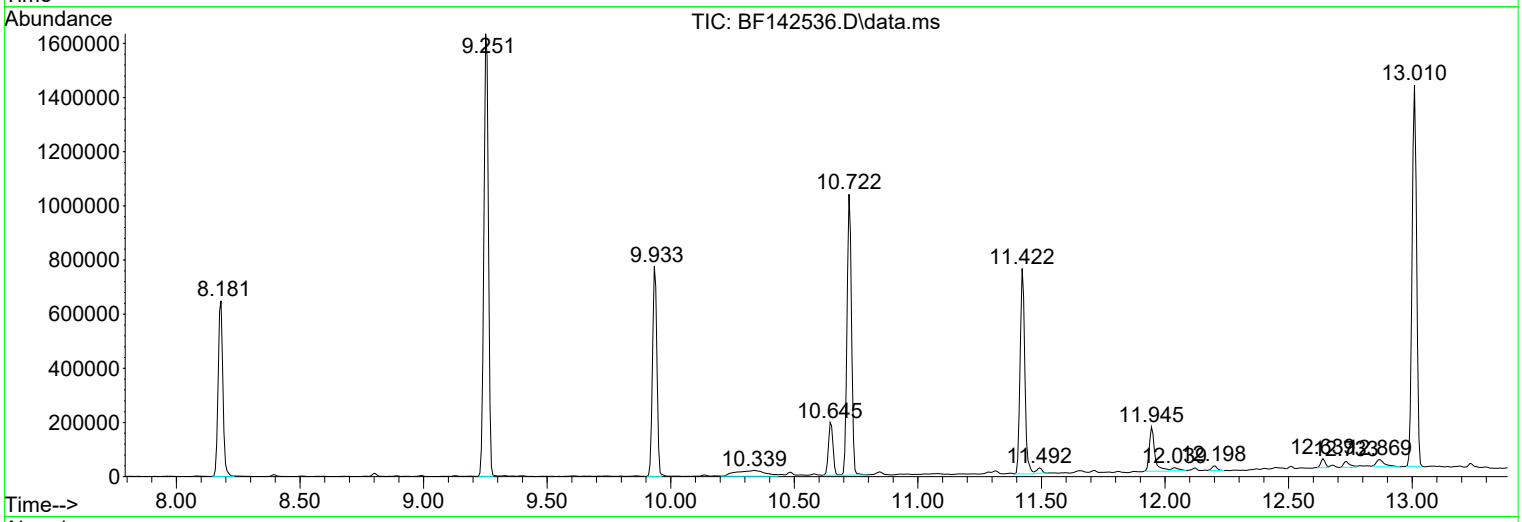
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052325\
Data File : BF142536.D
Acq On : 23 May 2025 15:37
Operator : RC/JU
Sample : Q2100-02
Misc :
ALS Vial : 11 Sample Multiplier: 1

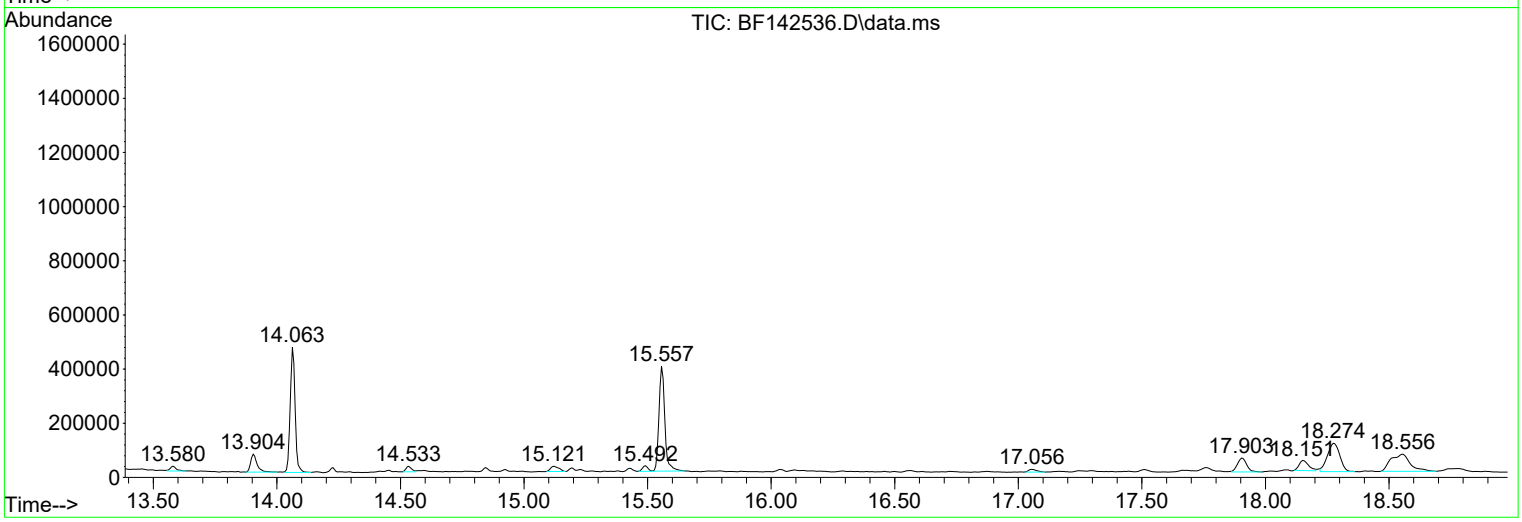
Instrument :
BNA_F
ClientSampleId :
TP-22

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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Data File : BF142536.D
Acq On : 23 May 2025 15:37
Operator : RC/JU
Sample : Q2100-02
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-22

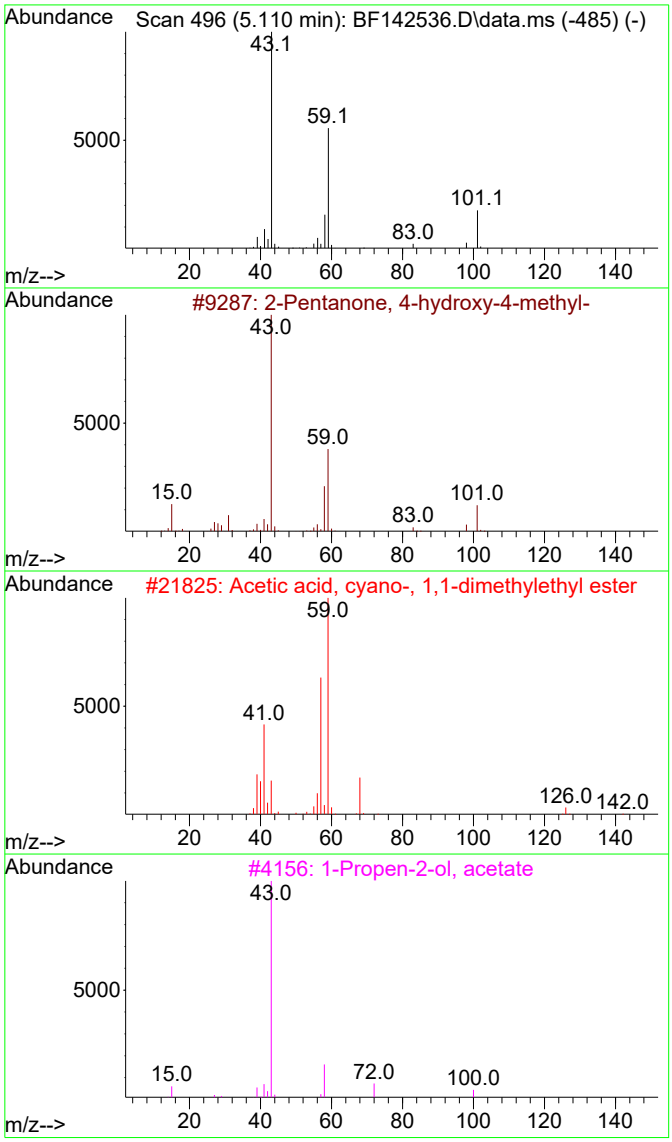
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

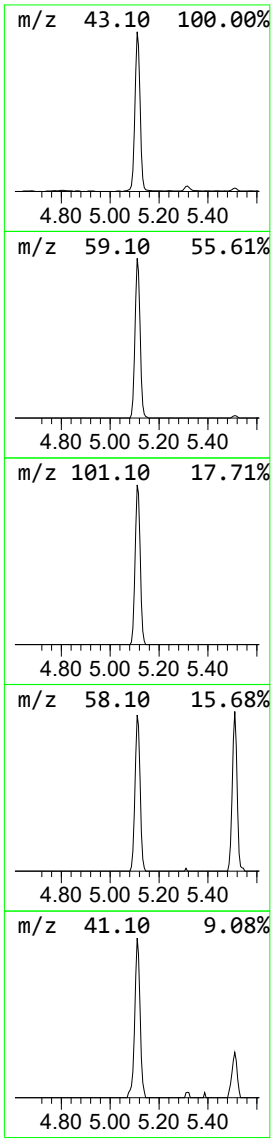
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 1 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.110	5.88 ng	185449	1,4-Dichlorobenzene-d4	6.898

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	23
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\BF052325\
Data File : BF142536.D
Acq On : 23 May 2025 15:37
Operator : RC/JU
Sample : Q2100-02
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-22

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

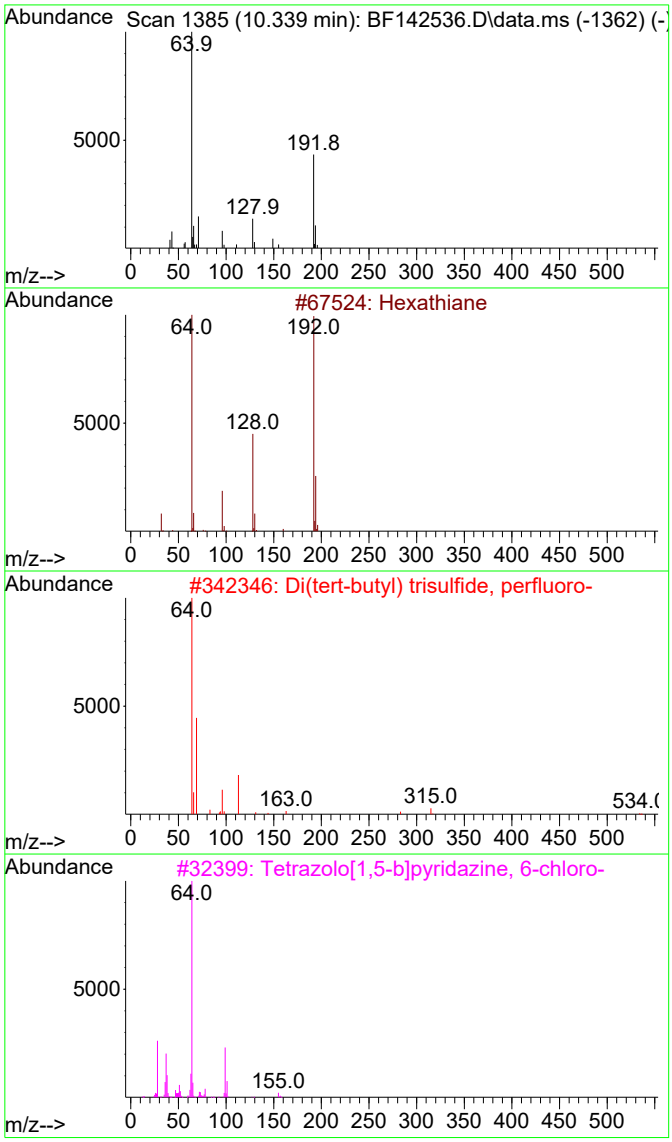
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

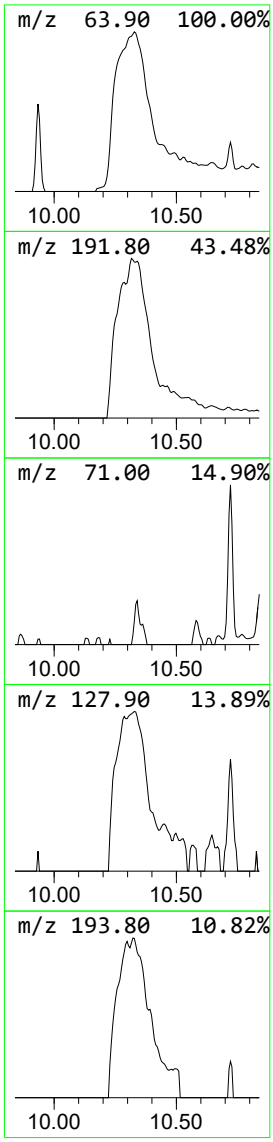
****

Peak Number 2 Hexathiane Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.339	3.56 ng	172159	Acenaphthene-d10	9.933

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexathiane	192	S6	013798-23-7	91
2	Di(tert-butyl) trisulfide, perfl...	534	C8F18S3	016005-64-4	9
3	Tetrazolo[1,5-b]pyridazine, 6-ch...	155	C4H2ClN5	021413-15-0	7
4	Sulfur dioxide	64	O2S	007446-09-5	4
5	Ethyl Chloride	64	C2H5Cl	000075-00-3	4





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052325\
Data File : BF142536.D
Acq On : 23 May 2025 15:37
Operator : RC/JU
Sample : Q2100-02
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-22

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

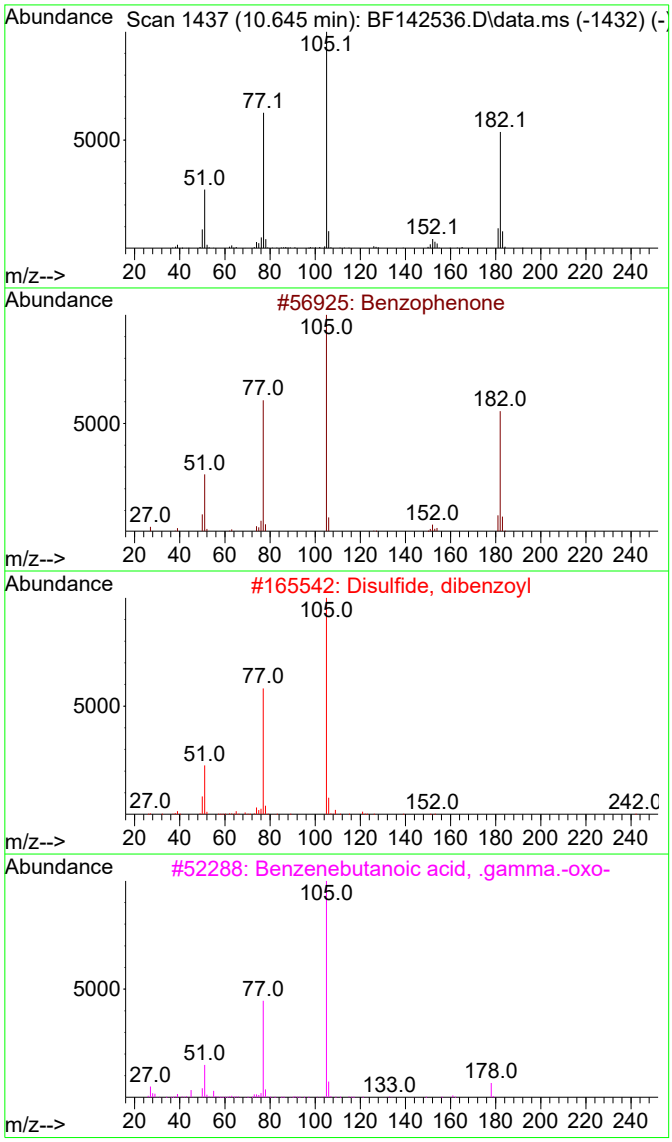
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

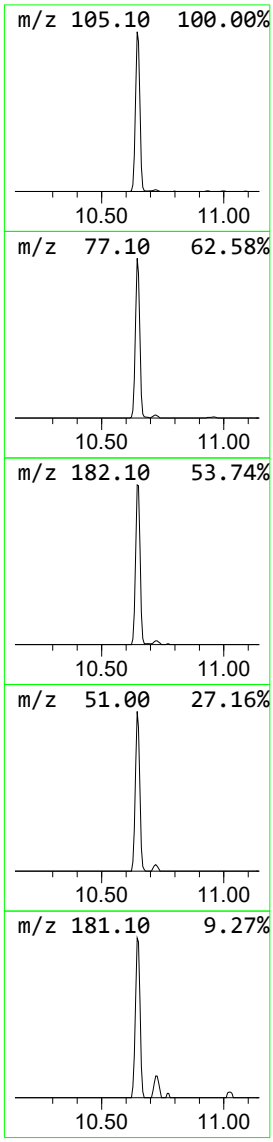
****

Peak Number 3 Benzophenone Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.645	5.13 ng	247997	Acenaphthene-d10	9.933

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzophenone	182	C13H10O	000119-61-9	96
2	Disulfide, dibenzoyl	274	C14H10O2S2	000644-32-6	49
3	Benzenebutanoic acid, .gamma.-oxo-	178	C10H10O3	002051-95-8	47
4	Benzoic acid, phenyl ester	198	C13H10O2	000093-99-2	47
5	Pentafluoroethyl phenyl ketone	224	C9H5F5O	000394-52-5	47





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052325\
Data File : BF142536.D
Acq On : 23 May 2025 15:37
Operator : RC/JU
Sample : Q2100-02
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-22

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

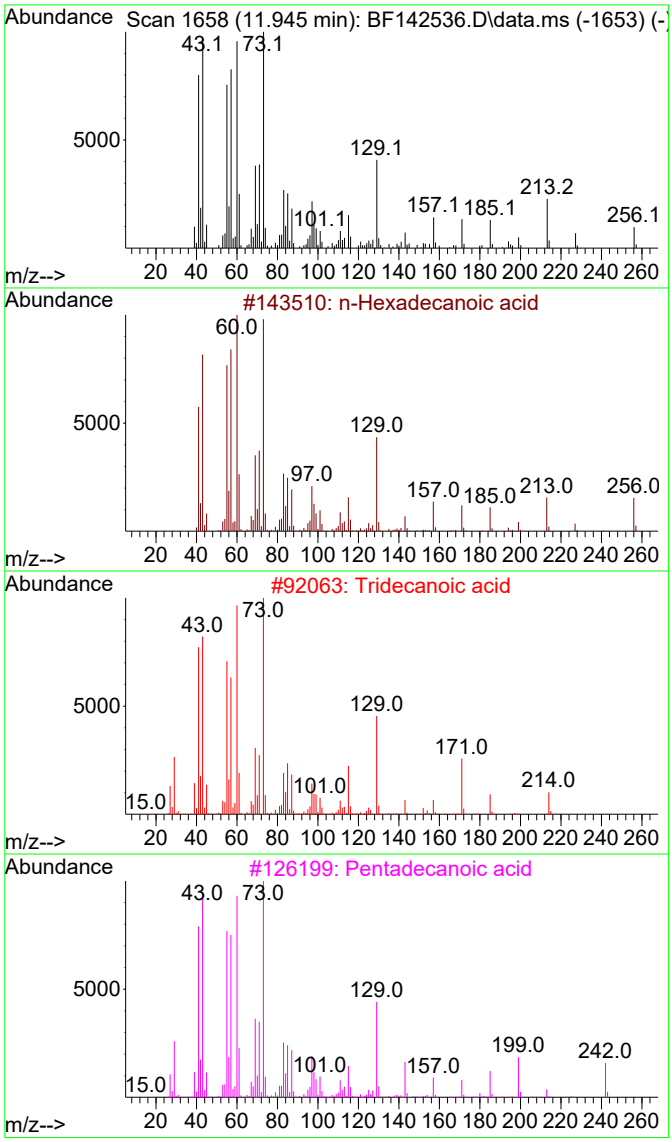
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

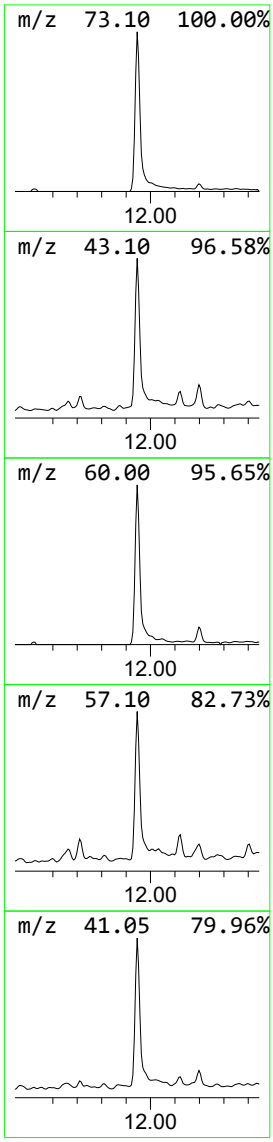
****

Peak Number 4 n-Hexadecanoic acid Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.945	5.03 ng	251425	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	91
3	Pentadecanoic acid	242	C15H30O2	001002-84-2	91
4	n-Decanoic acid	172	C10H20O2	000334-48-5	86
5	Tetradecanoic acid	228	C14H28O2	000544-63-8	74





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052325\
Data File : BF142536.D
Acq On : 23 May 2025 15:37
Operator : RC/JU
Sample : Q2100-02
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-22

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

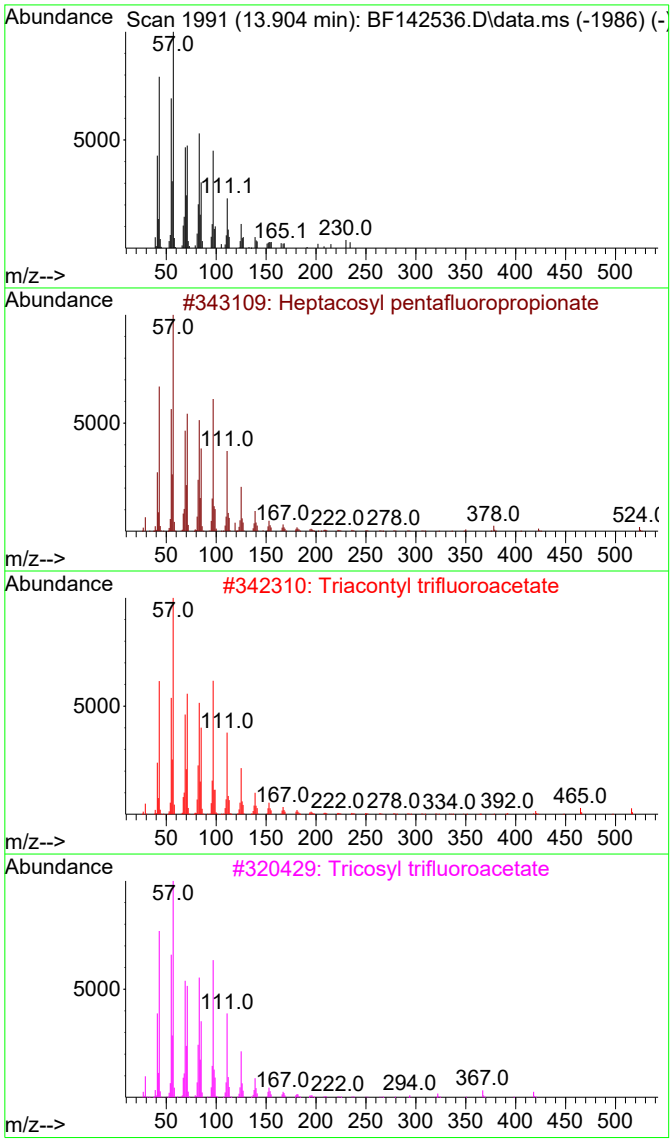
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

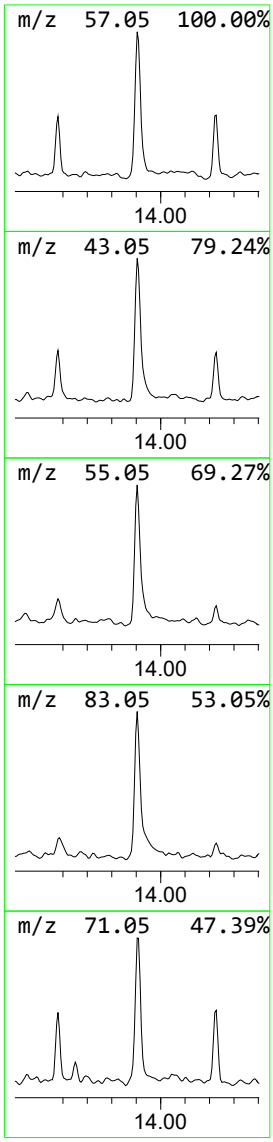
****

Peak Number 5 Heptacosyl pentafluoropropi... Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.904	3.70 ng	116644	Chrysene-d12	14.063

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptacosyl pentafluoropropionate	542	C30H55F5O2	1000351-81-6	91
2	Triacontyl trifluoroacetate	534	C32H61F3O2	1000351-75-7	91
3	Tricosyl trifluoroacetate	436	C25H47F3O2	1000351-75-1	91
4	Hexacosyl pentafluoropropionate	528	C29H53F5O2	1000351-81-2	91
5	Hexacosyl trifluoroacetate	478	C28H53F3O2	1000351-75-0	91





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052325\
Data File : BF142536.D
Acq On : 23 May 2025 15:37
Operator : RC/JU
Sample : Q2100-02
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-22

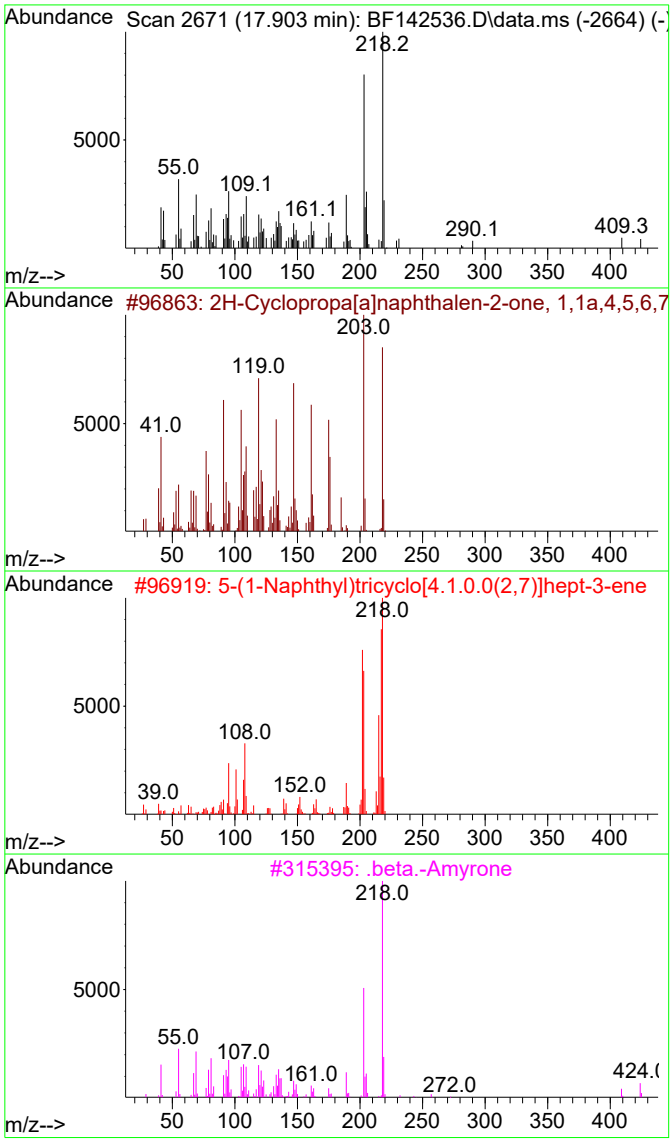
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

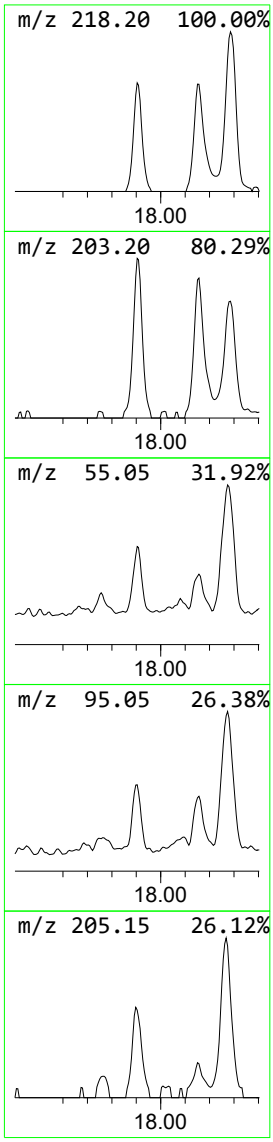
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 6 2H-Cyclopropa[a]naphthalen-... Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.904	4.21 ng	132332	Perylene-d12	15.557

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2H-Cyclopropa[a]naphthalen-2-one...	218	C15H22O	006831-17-0	64
2	5-(1-Naphthyl)tricyclo[4.1.0.0(2...	218	C17H14	107729-05-5	64
3	.beta.-Amyrone	424	C30H48O	000638-97-1	62
4	1H-1,3-Benzodiazole-5-carbaldehy...	218	C11H14N2OSi	1000478-28-4	52
5	Benzo[b]naphtho[2,3-d]furan	218	C16H10O	000243-42-5	46





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052325\
Data File : BF142536.D
Acq On : 23 May 2025 15:37
Operator : RC/JU
Sample : Q2100-02
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-22

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

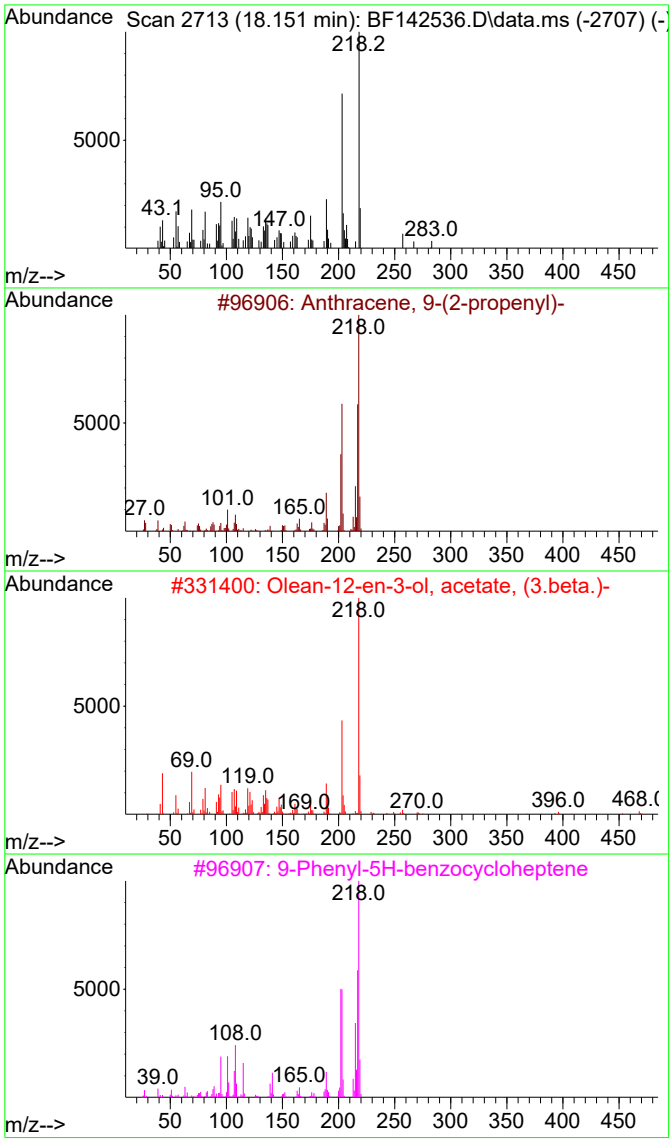
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

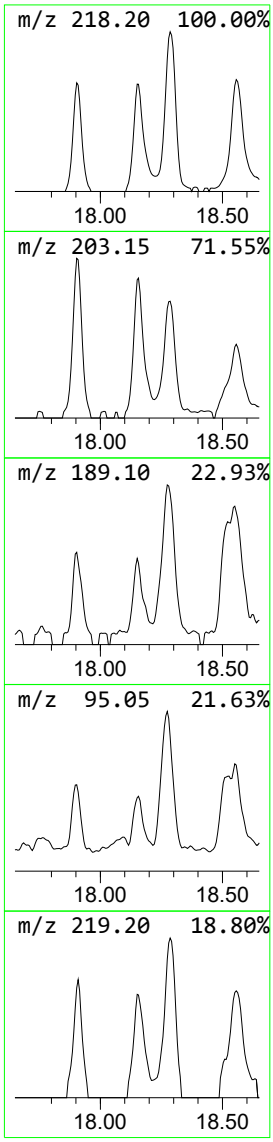
****

Peak Number 7 Anthracene, 9-(2-propenyl)- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.151	3.22 ng	101247	Perylene-d12	15.557

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 9-(2-propenyl)-	218	C17H14	023707-65-5	76
2	Olean-12-en-3-ol, acetate, (3.be...	468	C32H52O2	001616-93-9	74
3	9-Phenyl-5H-benzocycloheptene	218	C17H14	138089-71-1	72
4	5-(1-Naphthyl)tricyclo[4.1.0.0(2...	218	C17H14	107729-05-5	72
5	2H-Cyclopropa[a]naphthalen-2-one...	218	C15H22O	006831-17-0	70





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052325\
Data File : BF142536.D
Acq On : 23 May 2025 15:37
Operator : RC/JU
Sample : Q2100-02
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-22

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

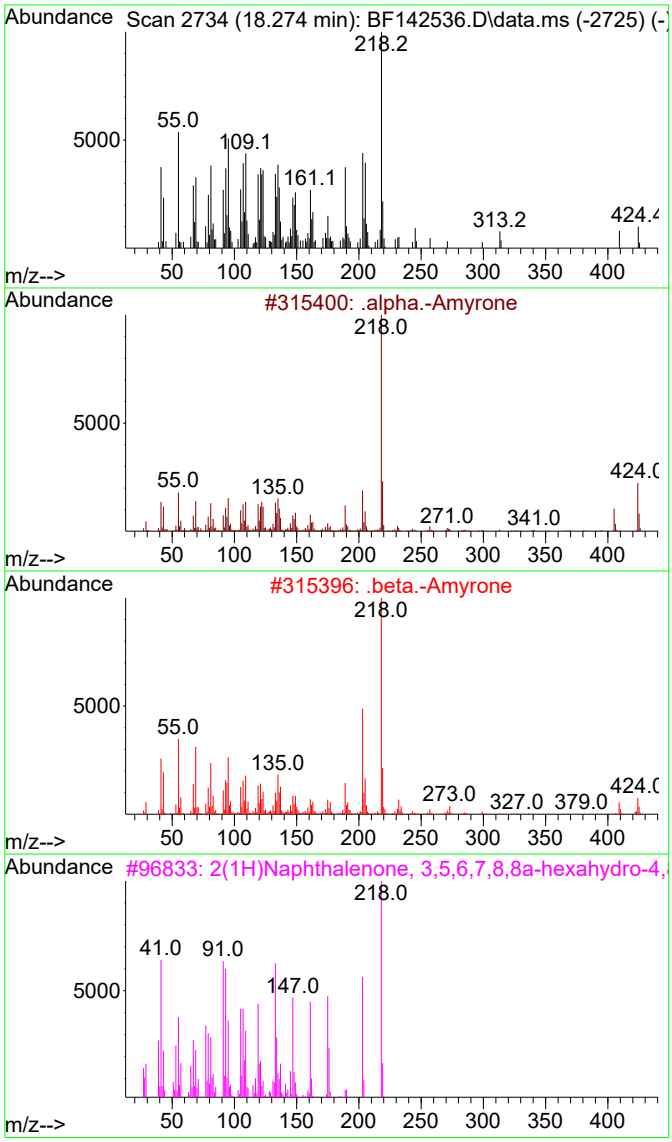
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

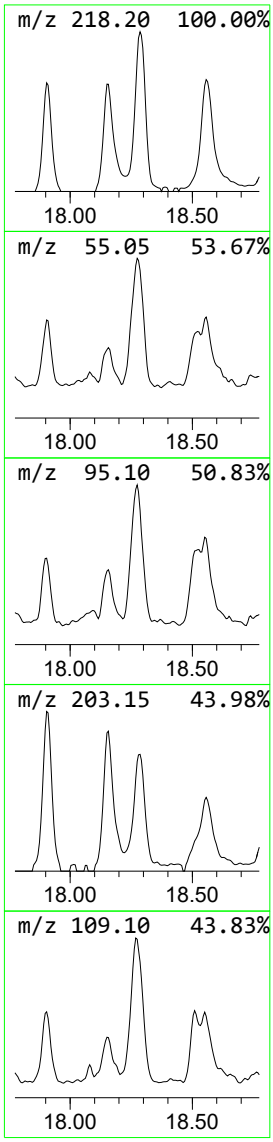
****

Peak Number 8 .alpha.-Amyrone Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.274	11.57 ng	363772	Perylene-d12	15.557

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	.alpha.-Amyrone	424	C30H48O	000638-96-0	98
2	.beta.-Amyrone	424	C30H48O	000638-97-1	50
3	2(1H)Naphthalenone, 3,5,6,7,8,8a...	218	C15H22O	1000188-66-5	49
4	24-Noroleana-3,12-diene	394	C29H46	201358-24-9	46
5	.alpha.-Boswellic acid, O,O-bis-...	484	C32H52O3	1010507-05-0	43





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052325\
Data File : BF142536.D
Acq On : 23 May 2025 15:37
Operator : RC/JU
Sample : Q2100-02
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-22

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

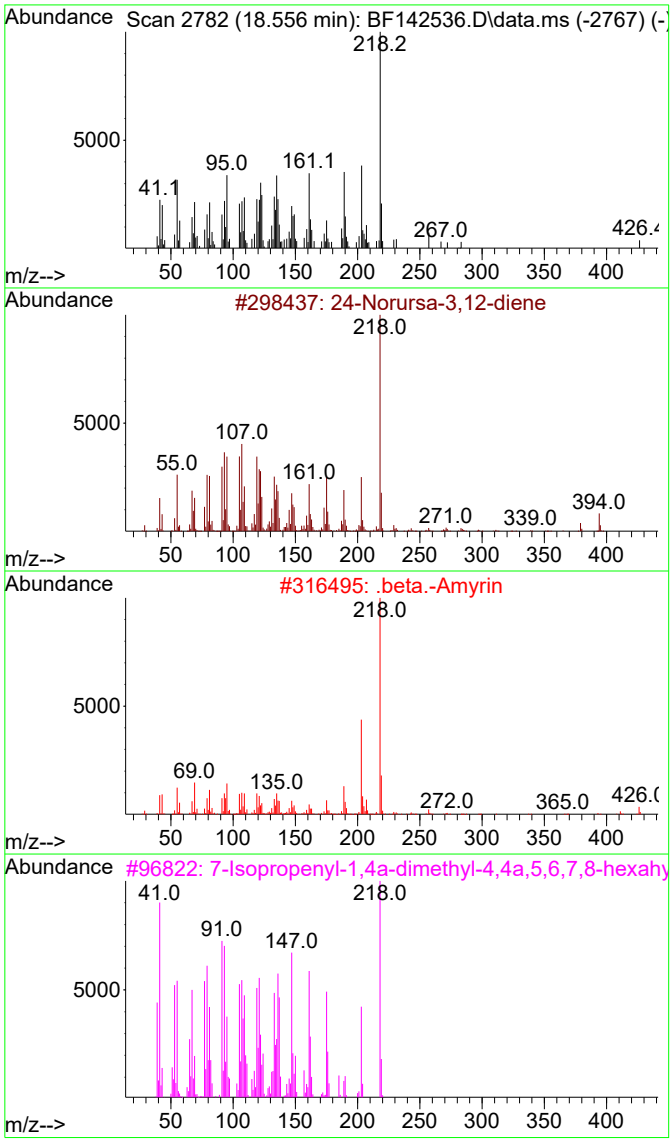
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

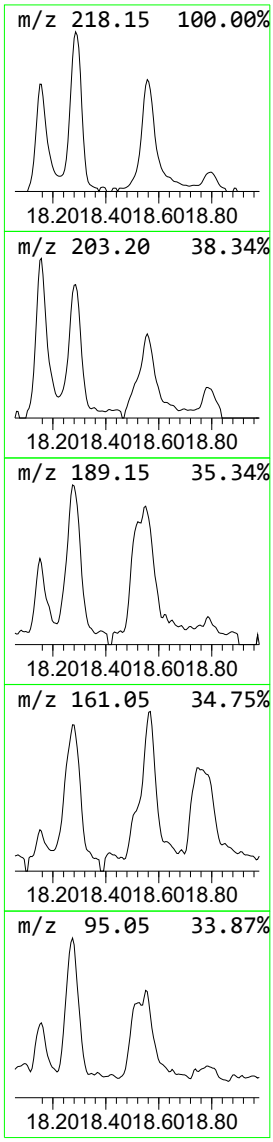
****

Peak Number 9 24-Norursa-3,12-diene Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.556	10.87 ng	341990	Perylene-d12	15.557

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	24-Norursa-3,12-diene	394	C29H46	201358-25-0	64
2	.beta.-Amyrin	426	C30H50O	000559-70-6	58
3	7-Isopropenyl-1,4a-dimethyl-4,4a...	218	C15H22O	000473-08-5	58
4	Urs-12-en-3-ol, acetate, (3.beta.)-	468	C32H52O2	000863-76-3	58
5	5(1H)-Azulenone, 2,4,6,7,8,8a-he...	218	C15H22O	006754-66-1	52





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052325\
Data File : BF142536.D
Acq On : 23 May 2025 15:37
Operator : RC/JU
Sample : Q2100-02
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-22

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	5.9	ng	185449	1	6.898	631154	20.0
Hexathiane	10.339	3.6	ng	172159	3	9.933	967431	20.0
Benzophenone	10.645	5.1	ng	247997	3	9.933	967431	20.0
n-Hexadecanoic ...	11.945	5.0	ng	251425	4	11.422	998712	20.0
Heptacosyl pent...	13.904	3.7	ng	116644	5	14.063	630101	20.0
2H-Cyclopropa[a...	17.904	4.2	ng	132332	6	15.557	629020	20.0
Anthracene, 9-(...	18.151	3.2	ng	101247	6	15.557	629020	20.0
.alpha.-Amyrone	18.274	11.6	ng	363772	6	15.557	629020	20.0
24-Norursa-3,12...	18.556	10.9	ng	341990	6	15.557	629020	20.0

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052325\
Data File : BF142547.D
Acq On : 23 May 2025 20:53
Operator : RC/JU
Sample : Q2100-03
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-21

Quant Time: May 23 22:55:32 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

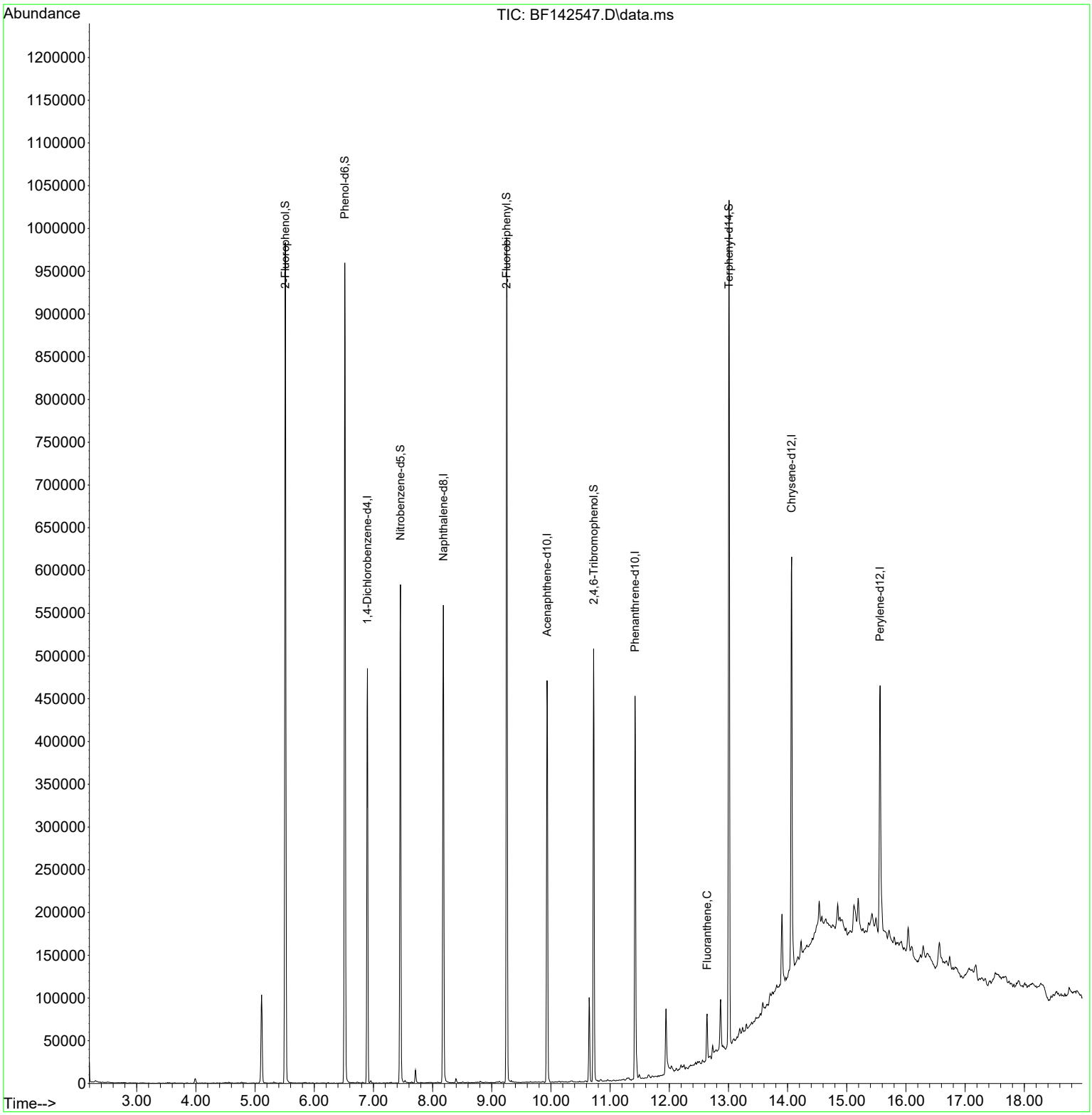
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.898	152	105842	20.000	ng	0.00
21) Naphthalene-d8	8.181	136	353306	20.000	ng	0.00
39) Acenaphthene-d10	9.933	164	144326	20.000	ng	-0.01
64) Phenanthrene-d10	11.422	188	233043	20.000	ng	-0.01
76) Chrysene-d12	14.068	240	235632	20.000	ng	0.00
86) Perylene-d12	15.563	264	174227	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.510	112	369359	58.793	ng	0.00
7) Phenol-d6	6.516	99	435356	57.568	ng	-0.02
23) Nitrobenzene-d5	7.457	82	240303	37.088	ng	-0.02
42) 2,4,6-Tribromophenol	10.722	330	86203	53.815	ng	-0.02
45) 2-Fluorobiphenyl	9.251	172	447830	41.637	ng	-0.02
79) Terphenyl-d14	13.010	244	468160	27.151	ng	0.00
Target Compounds						Qvalue
75) Fluoranthene	12.639	202	32750	2.814	ng	99

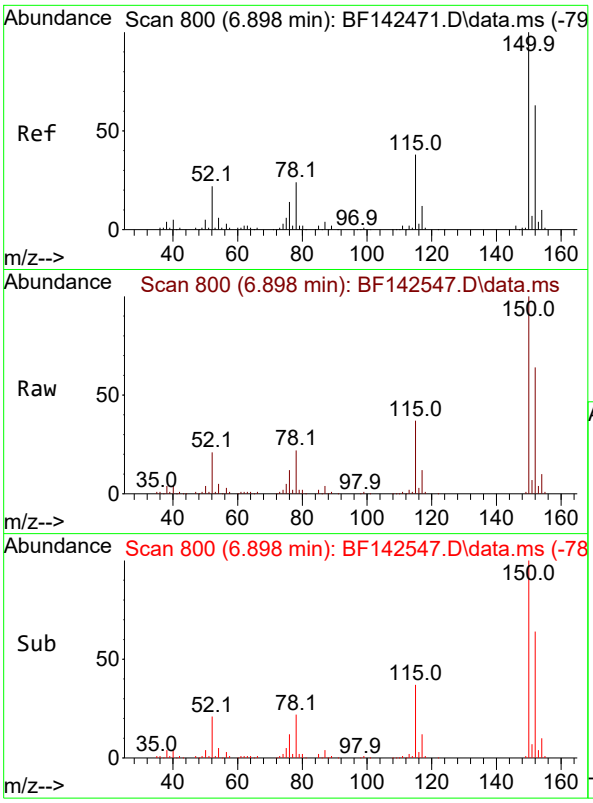
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052325\
Data File : BF142547.D
Acq On : 23 May 2025 20:53
Operator : RC/JU
Sample : Q2100-03
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-21

Quant Time: May 23 22:55:32 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



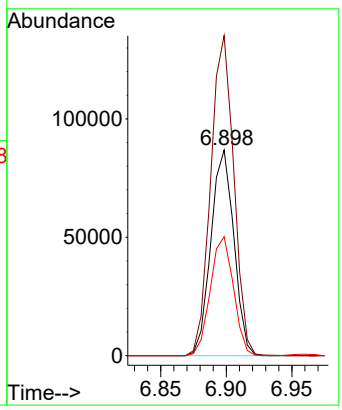


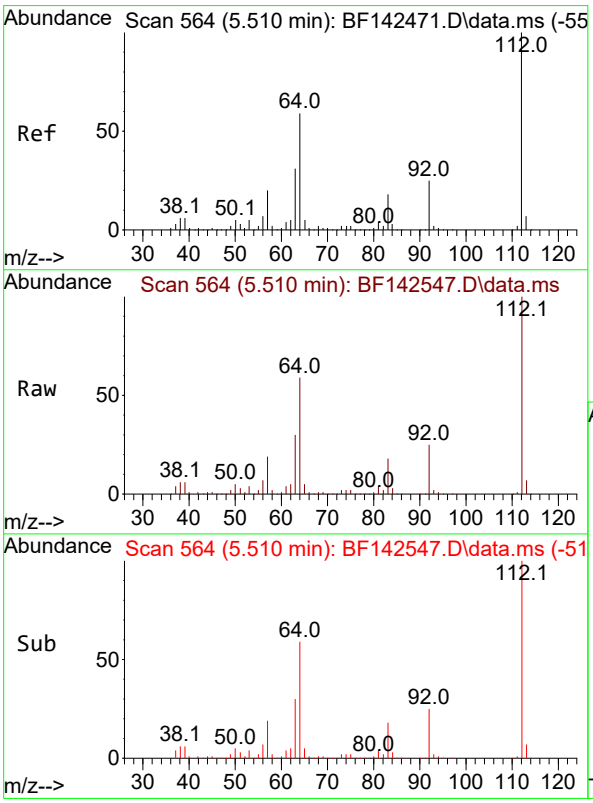
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.898 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF142547.D
Acq: 23 May 2025 20:53

Instrument :
BNA_F
ClientSampleId :
TP-21

Tgt Ion:152 Resp: 105842

Ion	Ratio	Lower	Upper
152	100		
150	155.7	128.2	192.4
115	57.8	48.3	72.5

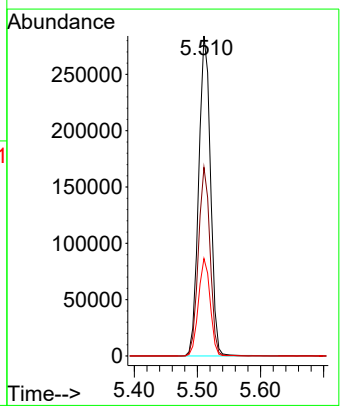


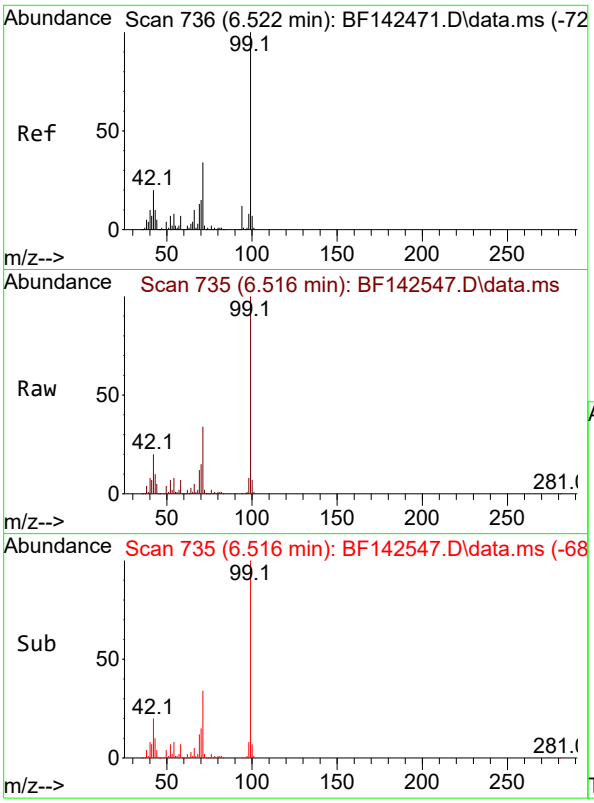


#5
2-Fluorophenol
Concen: 58.793 ng
RT: 5.510 min Scan# 564
Delta R.T. -0.006 min
Lab File: BF142547.D
Acq: 23 May 2025 20:53

Tgt Ion:112 Resp: 369359

Ion	Ratio	Lower	Upper
112	100		
64	58.9	47.5	71.3
63	30.4	24.9	37.3



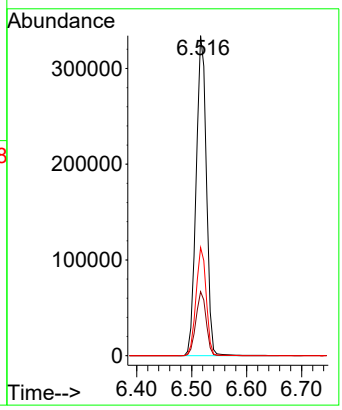


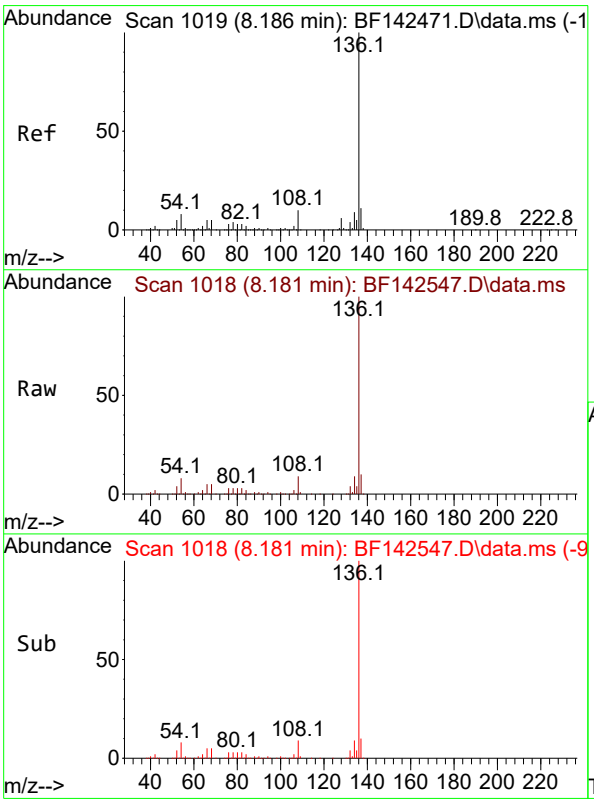
#7
Phenol-d6
Concen: 57.568 ng
RT: 6.516 min Scan# 7
Delta R.T. -0.018 min
Lab File: BF142547.D
Acq: 23 May 2025 20:53

Instrument :
BNA_F
ClientSampleId :
TP-21

Tgt Ion: 99 Resp: 435356

Ion	Ratio	Lower	Upper
99	100		
42	20.0	16.2	24.2
71	33.8	27.3	40.9

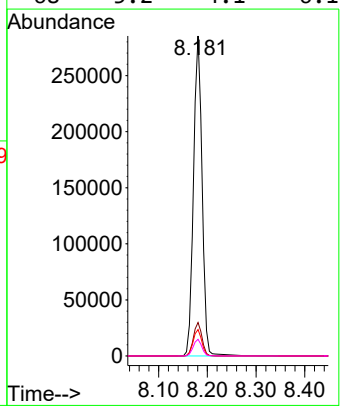


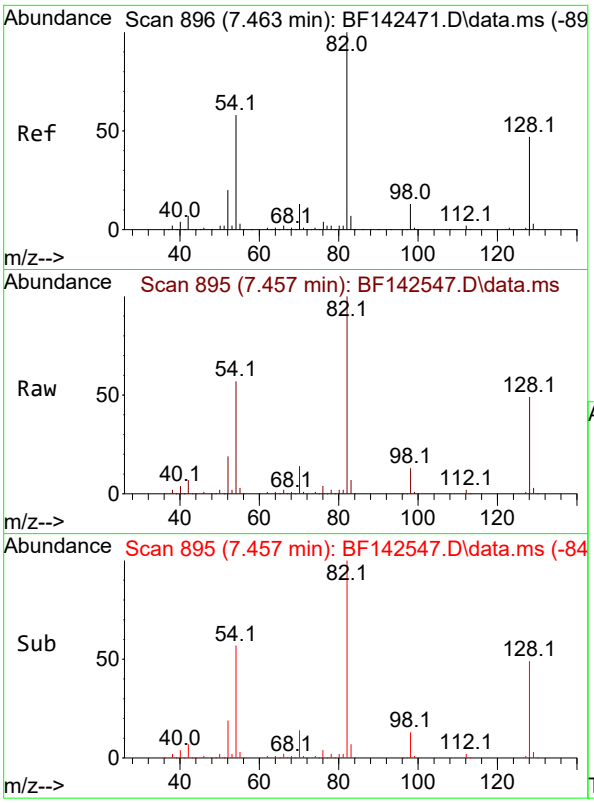


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.181 min Scan# 1018
Delta R.T. -0.006 min
Lab File: BF142547.D
Acq: 23 May 2025 20:53

Tgt Ion:136 Resp: 353306

Ion	Ratio	Lower	Upper
136	100		
137	10.5	8.6	13.0
54	8.3	6.6	10.0
68	5.2	4.1	6.1



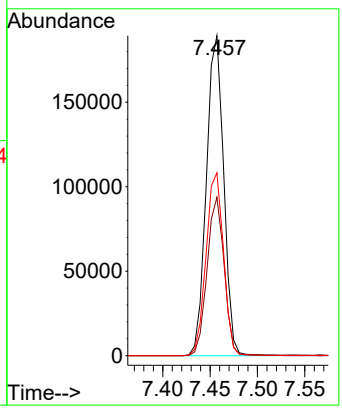


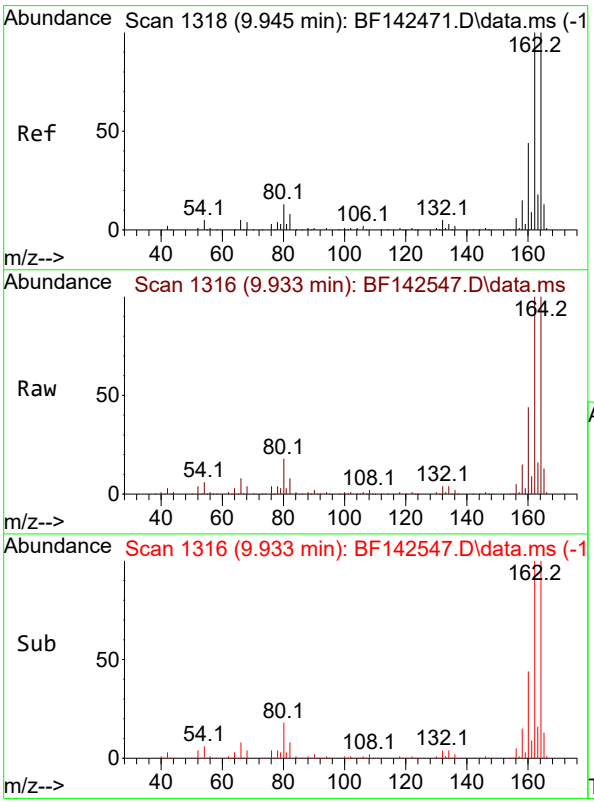
#23
Nitrobenzene-d5
Concen: 37.088 ng
RT: 7.457 min Scan# 8
Delta R.T. -0.017 min
Lab File: BF142547.D
Acq: 23 May 2025 20:53

Instrument :
BNA_F
ClientSampleId :
TP-21

Tgt Ion: 82 Resp: 240303

Ion	Ratio	Lower	Upper
82	100		
128	49.5	37.4	56.2
54	57.2	46.6	70.0

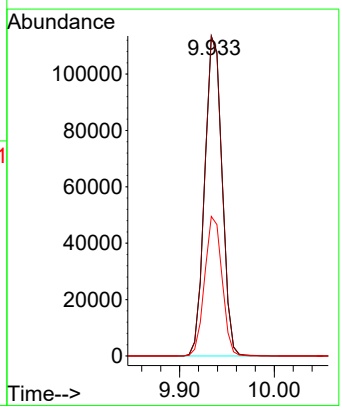


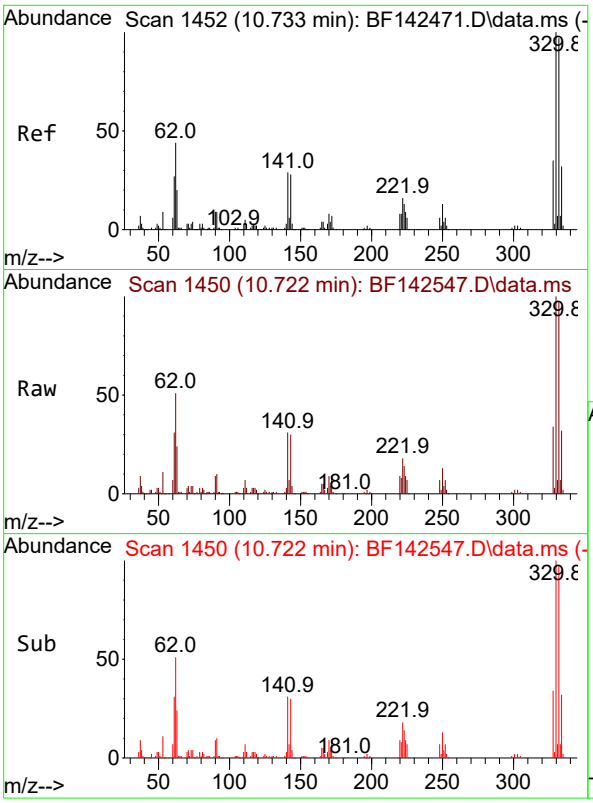


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.933 min Scan# 1316
Delta R.T. -0.012 min
Lab File: BF142547.D
Acq: 23 May 2025 20:53

Tgt Ion:164 Resp: 144326

Ion	Ratio	Lower	Upper
164	100		
162	99.8	80.2	120.4
160	43.6	35.6	53.4



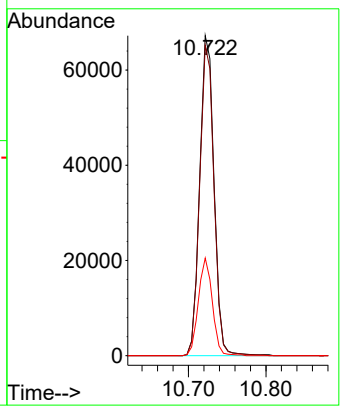


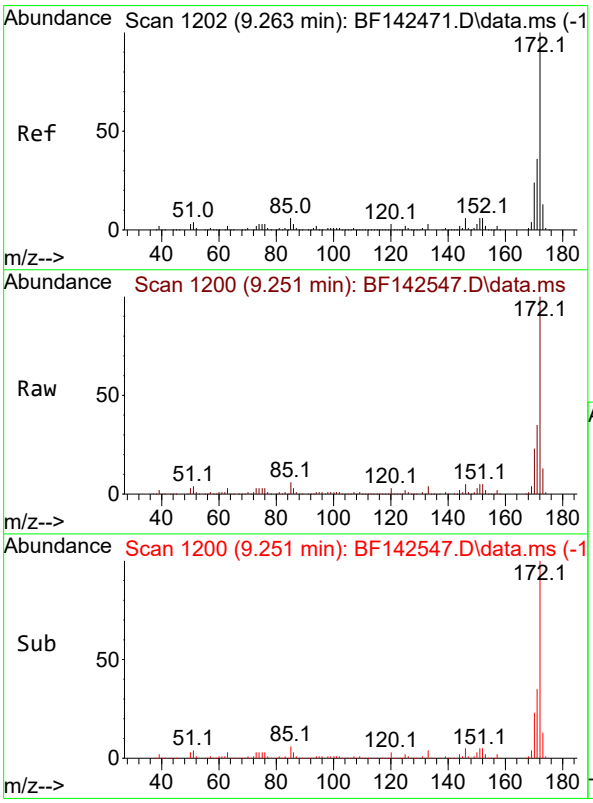
#42
2,4,6-Tribromophenol
Concen: 53.815 ng
RT: 10.722 min Scan# 14
Delta R.T. -0.018 min
Lab File: BF142547.D
Acq: 23 May 2025 20:53

Instrument :
BNA_F
ClientSampleId :
TP-21

Tgt Ion:330 Resp: 86203

Ion	Ratio	Lower	Upper
330	100		
332	96.7	77.6	116.4
141	29.8	24.6	36.8

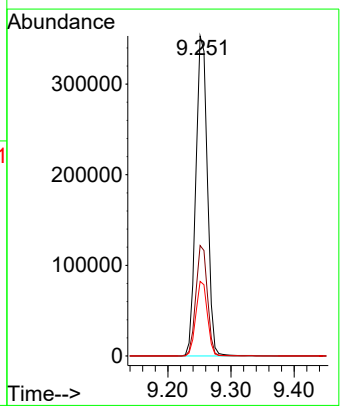


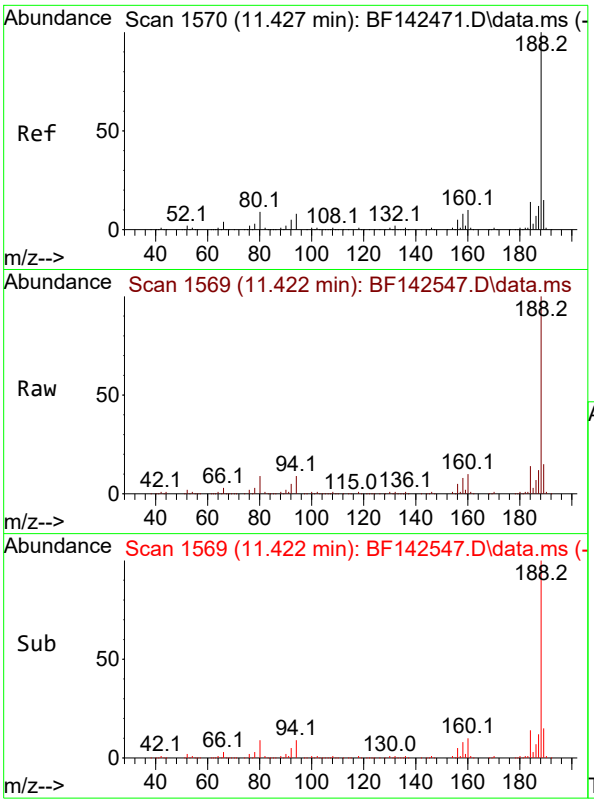


#45
2-Fluorobiphenyl
Concen: 41.637 ng
RT: 9.251 min Scan# 1200
Delta R.T. -0.017 min
Lab File: BF142547.D
Acq: 23 May 2025 20:53

Tgt Ion:172 Resp: 447830

Ion	Ratio	Lower	Upper
172	100		
171	34.5	28.6	42.8
170	23.3	18.9	28.3



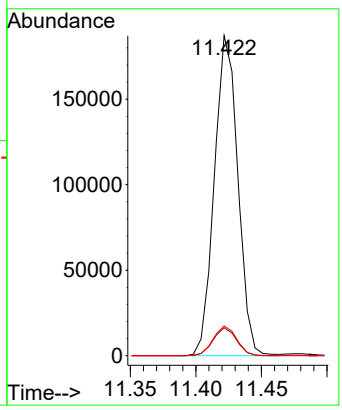


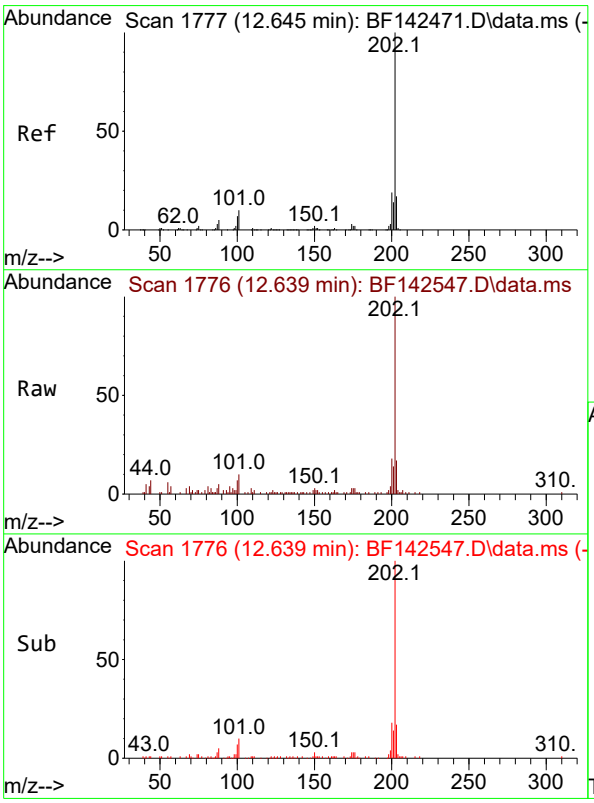
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.422 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF142547.D
Acq: 23 May 2025 20:53

Instrument :
BNA_F
ClientSampleId :
TP-21

Tgt Ion:188 Resp: 233043

Ion	Ratio	Lower	Upper
188	100		
94	8.7	6.6	10.0
80	9.3	7.4	11.0

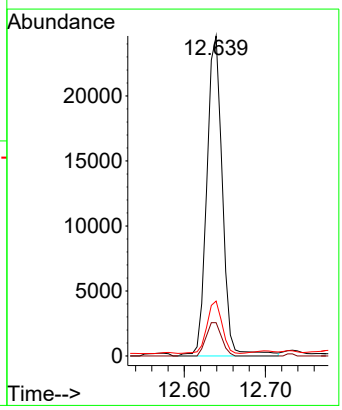


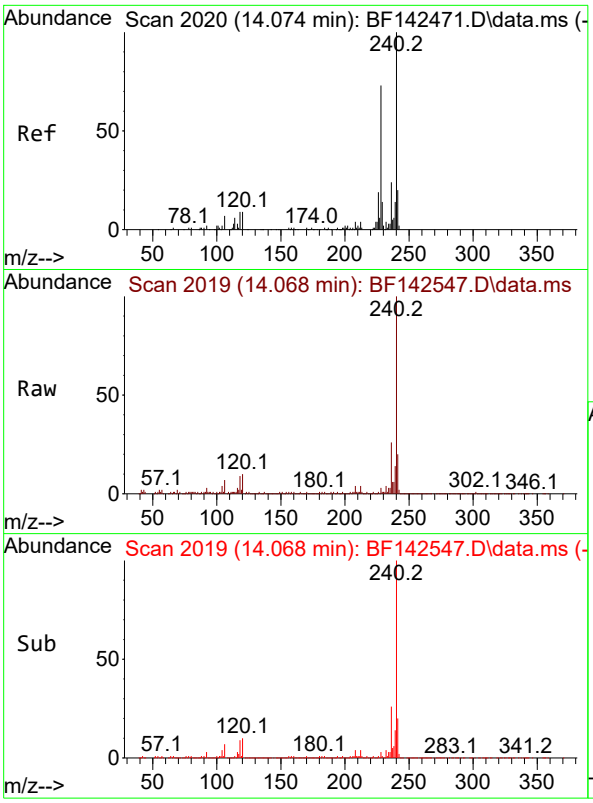


#75
Fluoranthene
Concen: 2.814 ng
RT: 12.639 min Scan# 1776
Delta R.T. -0.006 min
Lab File: BF142547.D
Acq: 23 May 2025 20:53

Tgt Ion:202 Resp: 32750

Ion	Ratio	Lower	Upper
202	100		
101	10.4	0.0	29.6
203	17.2	0.0	37.2



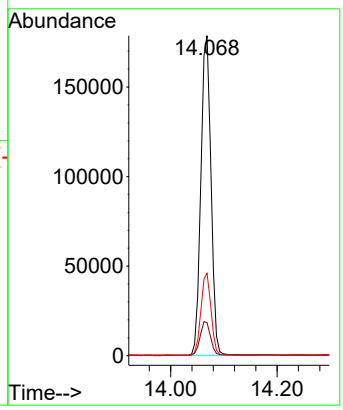


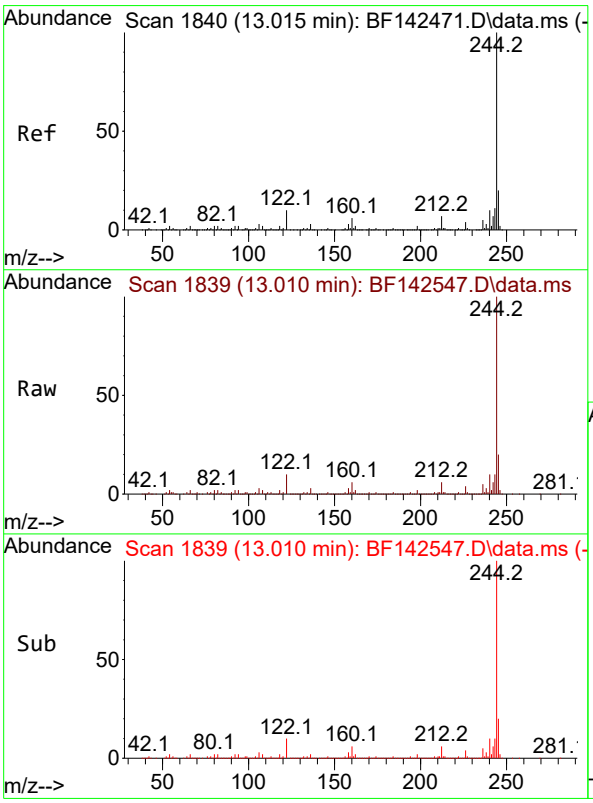
#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.068 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF142547.D
Acq: 23 May 2025 20:53

Instrument :
BNA_F
ClientSampleId :
TP-21

Tgt Ion:240 Resp: 235632

Ion	Ratio	Lower	Upper
240	100		
120	10.4	7.5	11.3
236	25.7	19.6	29.4

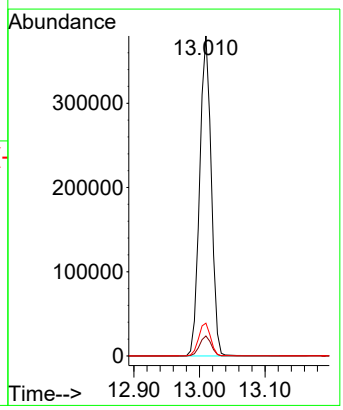


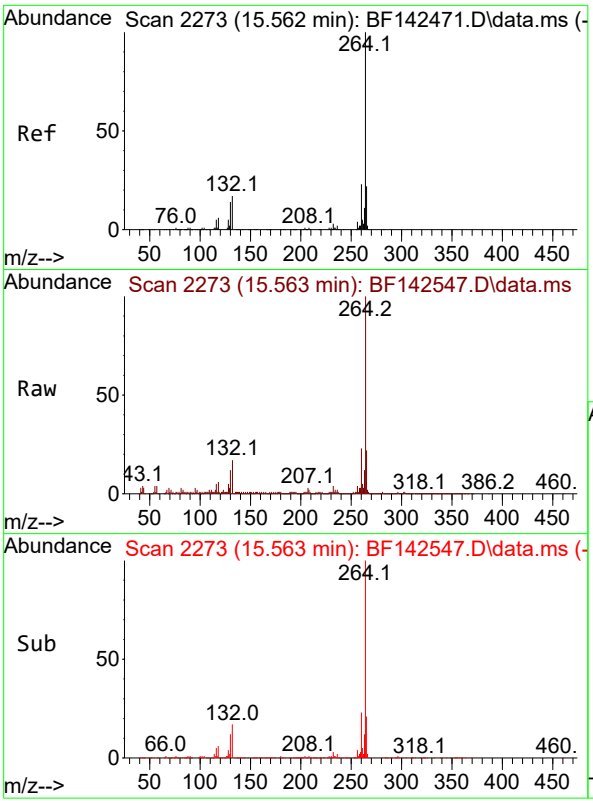


#79
Terphenyl-d14
Concen: 27.151 ng
RT: 13.010 min Scan# 1839
Delta R.T. -0.006 min
Lab File: BF142547.D
Acq: 23 May 2025 20:53

Tgt Ion:244 Resp: 468160

Ion	Ratio	Lower	Upper
244	100		
212	6.2	5.3	7.9
122	10.3	8.2	12.2



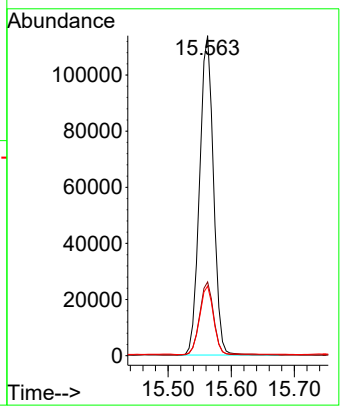


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.563 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF142547.D
Acq: 23 May 2025 20:53

Instrument :
BNA_F
ClientSampleId :
TP-21

Tgt Ion:264 Resp: 174227

Ion	Ratio	Lower	Upper
264	100		
260	23.0	18.6	28.0
265	21.8	17.7	26.5



Sample Results: **BF142547.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052325\
Data File : BF142547.D
Acq On : 23 May 2025 20:53
Operator : RC/JU
Sample : Q2100-03
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-21

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: BF142547.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	485	496	515	rBV	103366	148569	11.74%	1.387%
2	5.510	558	564	576	rBV	983229	1265597	100.00%	11.811%
3	6.516	729	735	748	rBV	958998	1254223	99.10%	11.705%
4	6.898	795	800	805	rBV	484771	594500	46.97%	5.548%
5	7.457	889	895	900	rBV	582872	737616	58.28%	6.884%
6	7.710	933	938	944	rBV	14766	18942	1.50%	0.177%
7	8.181	1012	1018	1023	rBV	558308	685593	54.17%	6.398%
8	9.251	1195	1200	1211	rBV	988247	1237471	97.78%	11.549%
9	9.933	1311	1316	1326	rVB	469822	596291	47.12%	5.565%
10	10.645	1432	1437	1445	rBV	98658	121064	9.57%	1.130%
11	10.722	1445	1450	1458	rBV	505972	633198	50.03%	5.909%
12	11.422	1564	1569	1577	rBV	448113	582788	46.05%	5.439%
13	11.945	1652	1658	1668	rBV3	77037	136370	10.78%	1.273%
14	12.033	1671	1673	1681	rVB4	6614	14190	1.12%	0.132%
15	12.639	1771	1776	1780	rBV	55211	75374	5.96%	0.703%
16	12.733	1788	1792	1795	rBV5	15143	23118	1.83%	0.216%
17	12.869	1810	1815	1819	rBV	57137	78791	6.23%	0.735%
18	13.010	1834	1839	1844	rBV	986879	1226116	96.88%	11.443%
19	13.904	1987	1991	2000	rBV2	81314	133514	10.55%	1.246%
20	14.068	2014	2019	2027	rVB	477522	672990	53.18%	6.281%
21	15.563	2268	2273	2283	rVB	286636	478727	37.83%	4.468%

Sum of corrected areas: 10715042

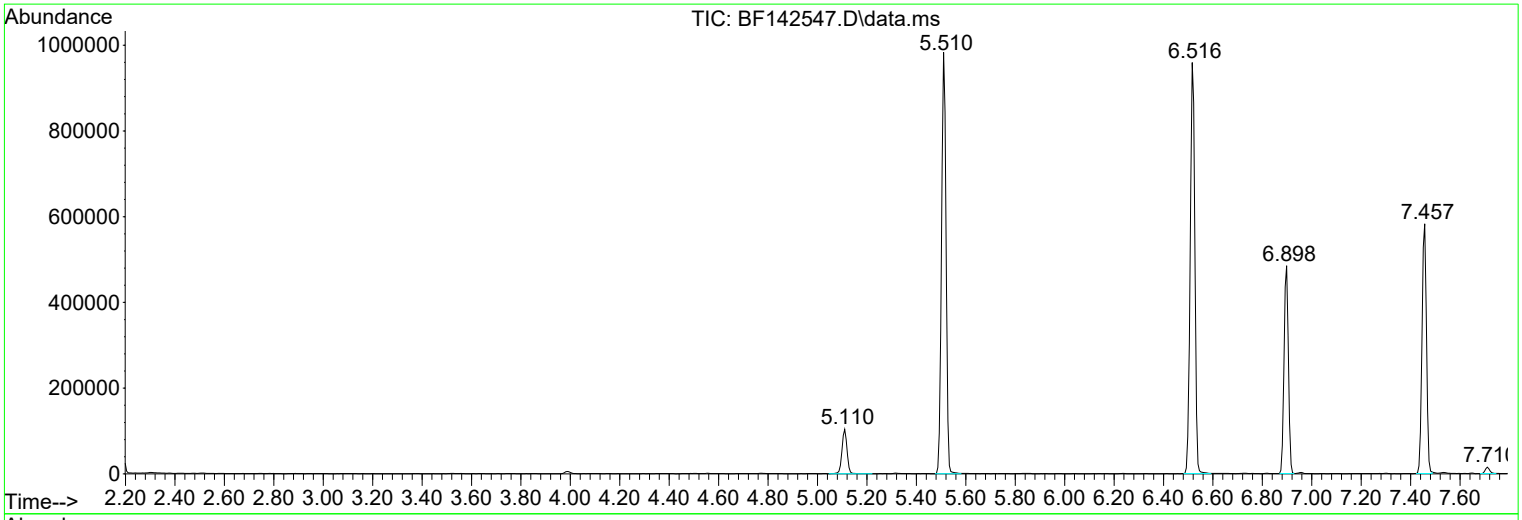
Sample Results: **BF142547.D**

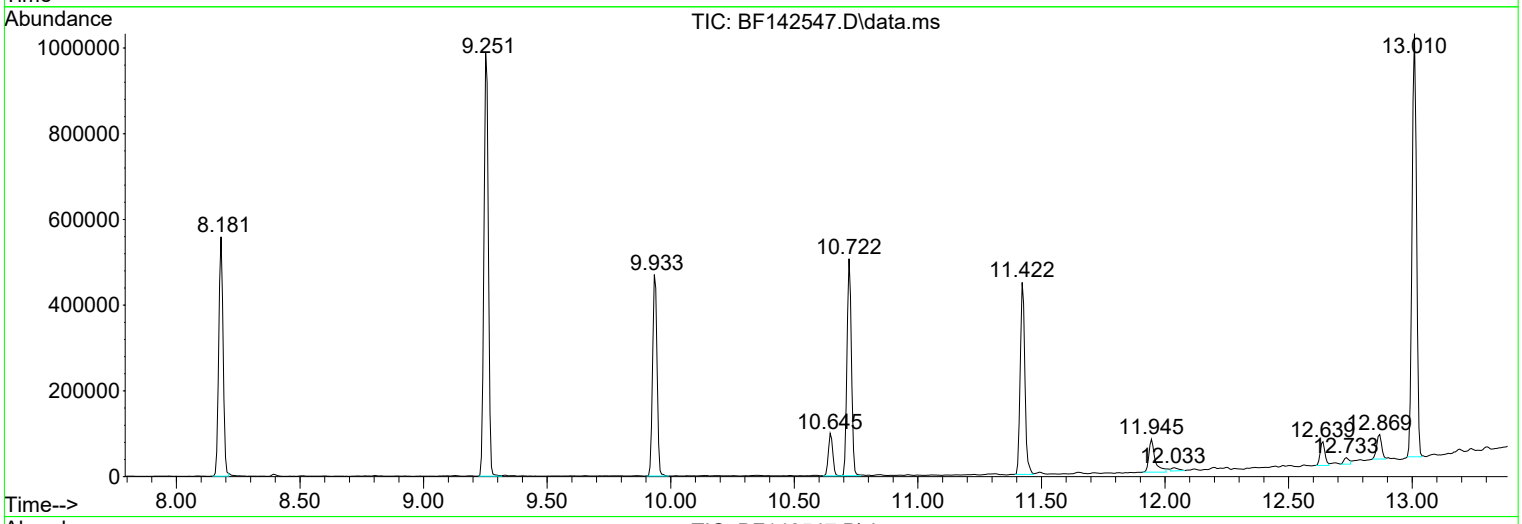
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052325\
Data File : BF142547.D
Acq On : 23 May 2025 20:53
Operator : RC/JU
Sample : Q2100-03
Misc :
ALS Vial : 22 Sample Multiplier: 1

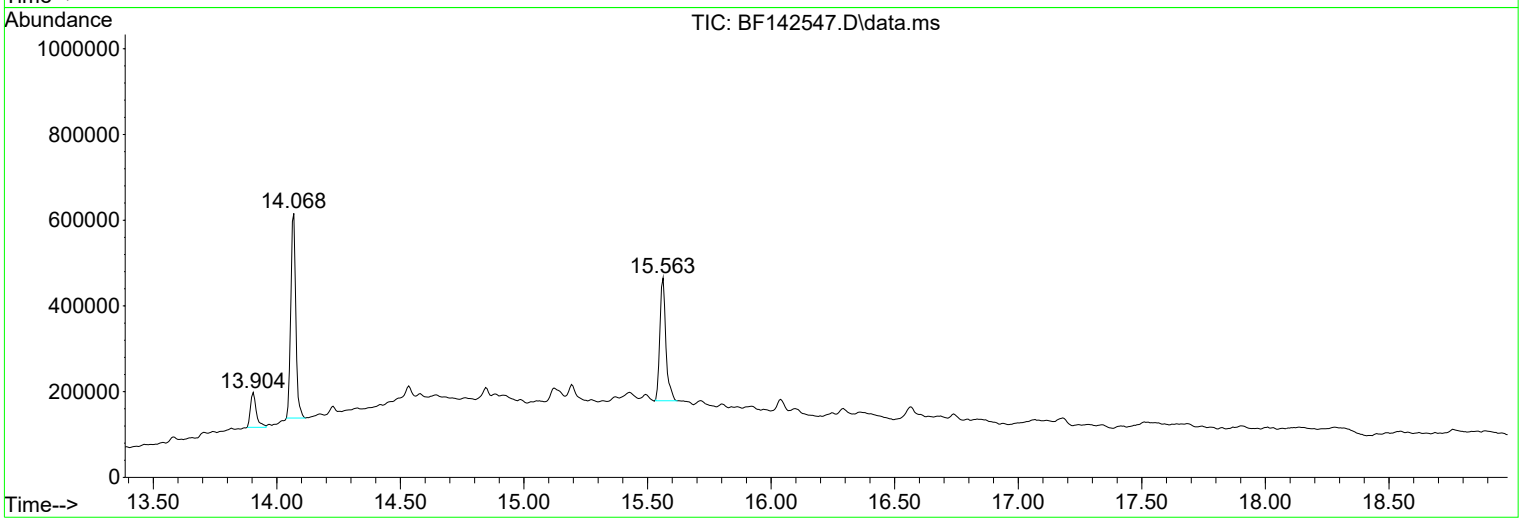
Instrument :
BNA_F
ClientSampleId :
TP-21

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\BF052325\
Data File : BF142547.D
Acq On : 23 May 2025 20:53
Operator : RC/JU
Sample : Q2100-03
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-21

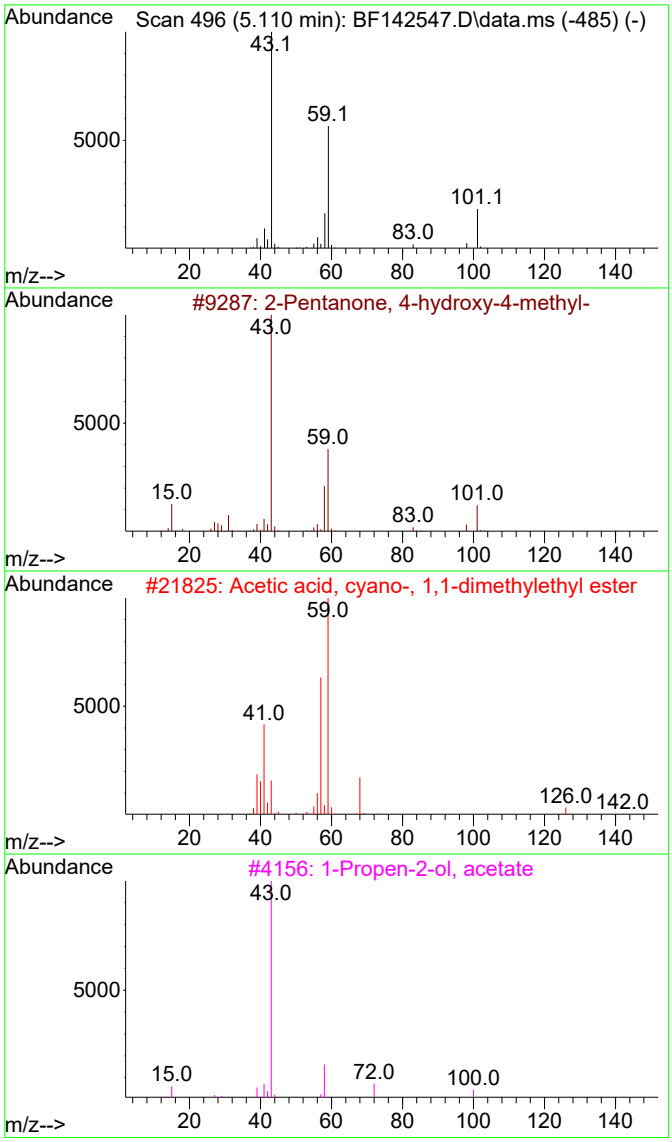
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

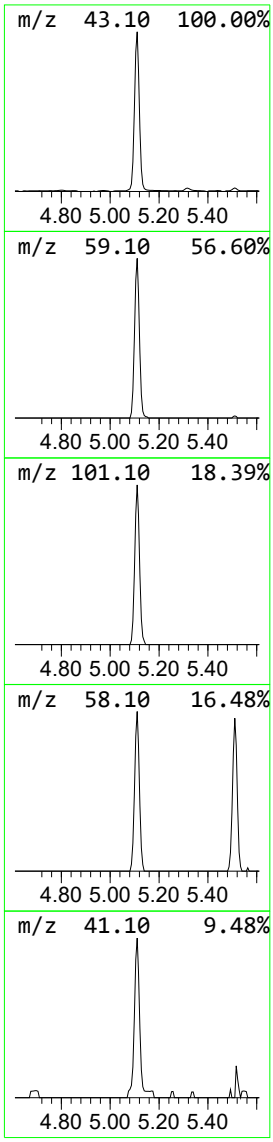
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 1 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.110	5.00 ng	148569	1,4-Dichlorobenzene-d4	6.898

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	2,3-Butanedione, monooxime	101	C4H7NO2	000057-71-6	9
5	Morpholine, 4-methyl-	101	C5H11NO	000109-02-4	9





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052325\
Data File : BF142547.D
Acq On : 23 May 2025 20:53
Operator : RC/JU
Sample : Q2100-03
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-21

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

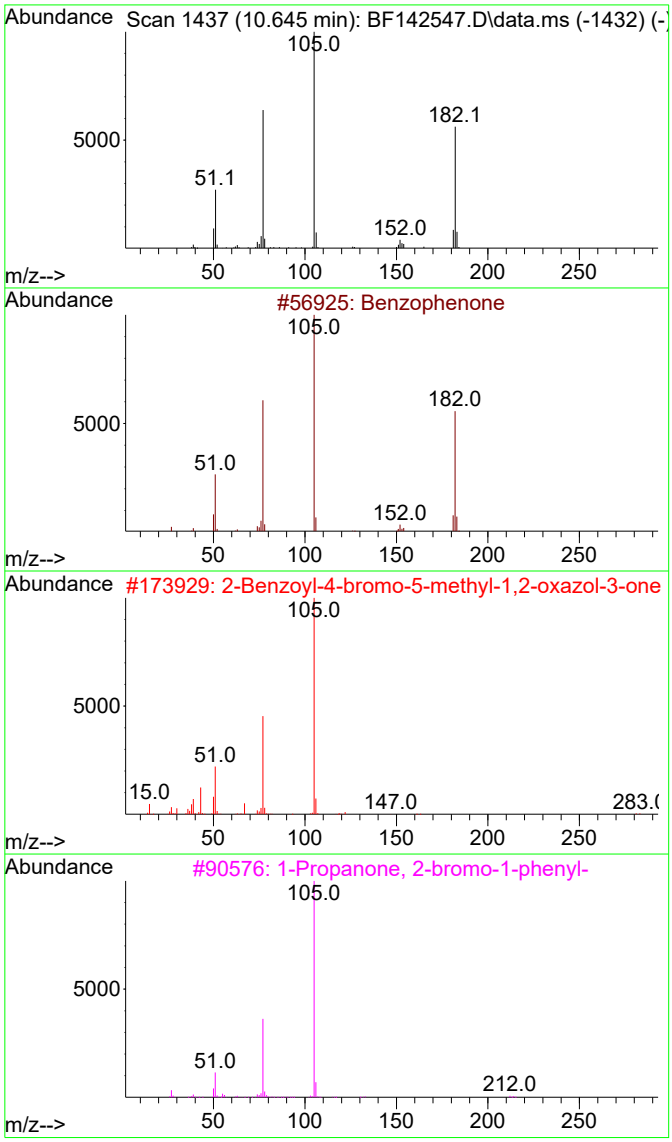
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

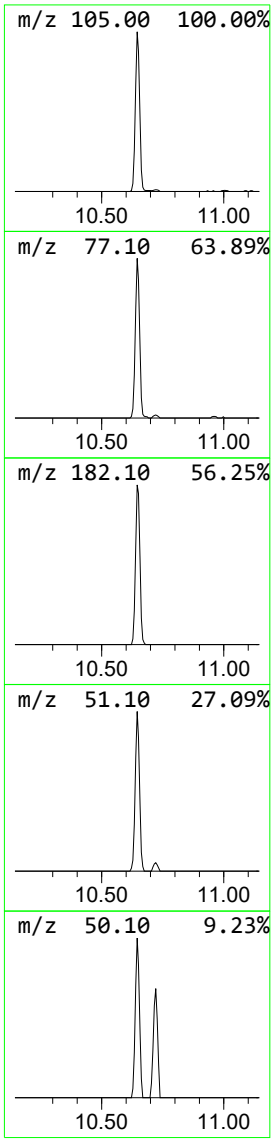
****

Peak Number 2 Benzophenone Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.645	4.06 ng	121064	Acenaphthene-d10	9.933

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzophenone	182	C13H10O	000119-61-9	96
2	2-Benzoyl-4-bromo-5-methyl-1,2-o...	281	C11H8BrNO3	1000444-92-3	50
3	1-Propanone, 2-bromo-1-phenyl-	212	C9H9BrO	002114-00-3	50
4	1-Propanone, 3-chloro-1-phenyl-	168	C9H9ClO	000936-59-4	50
5	Benzenepropanenitrile, .beta.-oxo-	145	C9H7NO	000614-16-4	50





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052325\
Data File : BF142547.D
Acq On : 23 May 2025 20:53
Operator : RC/JU
Sample : Q2100-03
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-21

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

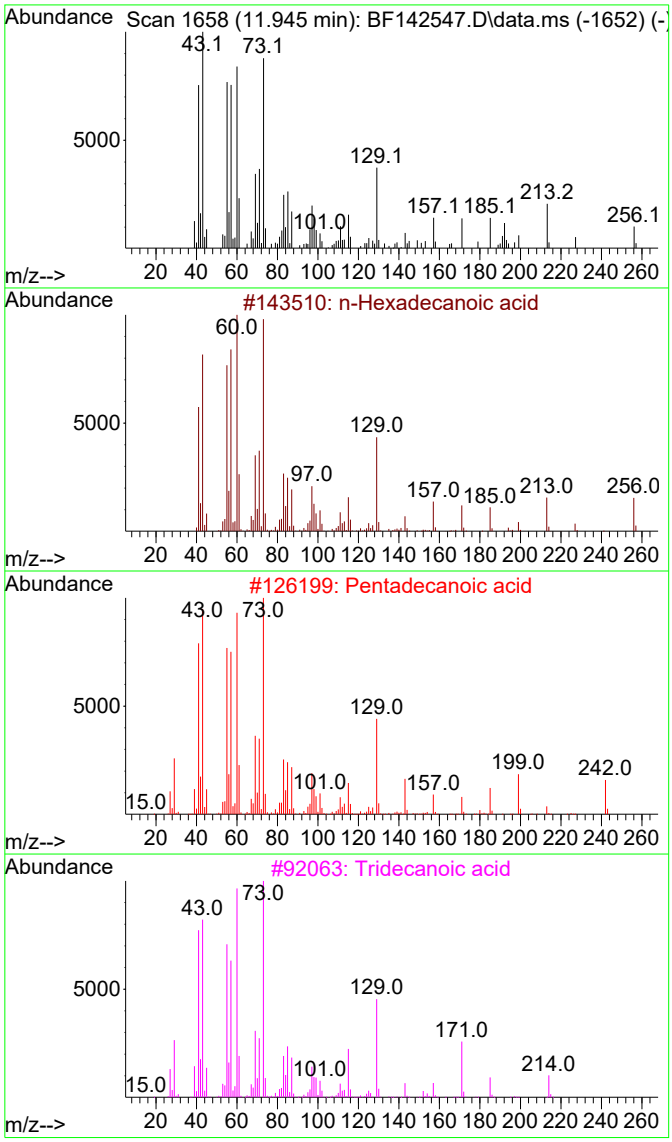
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

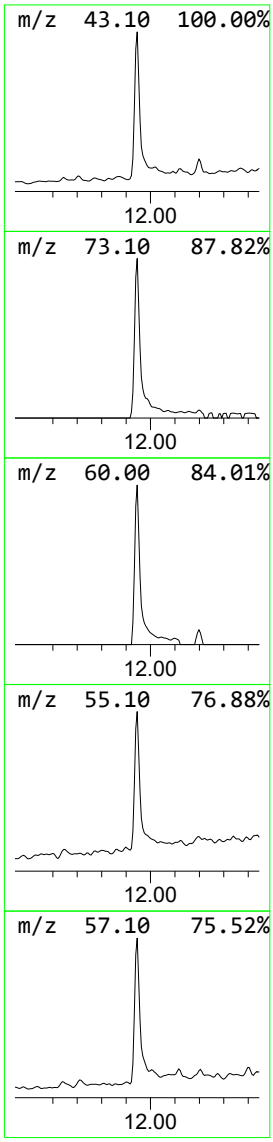
****

Peak Number 3 n-Hexadecanoic acid Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.945	4.68 ng	136370	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	81
3	Tridecanoic acid	214	C13H26O2	000638-53-9	76
4	Tetradecanoic acid	228	C14H28O2	000544-63-8	53
5	Octanoic acid	144	C8H16O2	000124-07-2	49





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052325\
Data File : BF142547.D
Acq On : 23 May 2025 20:53
Operator : RC/JU
Sample : Q2100-03
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-21

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

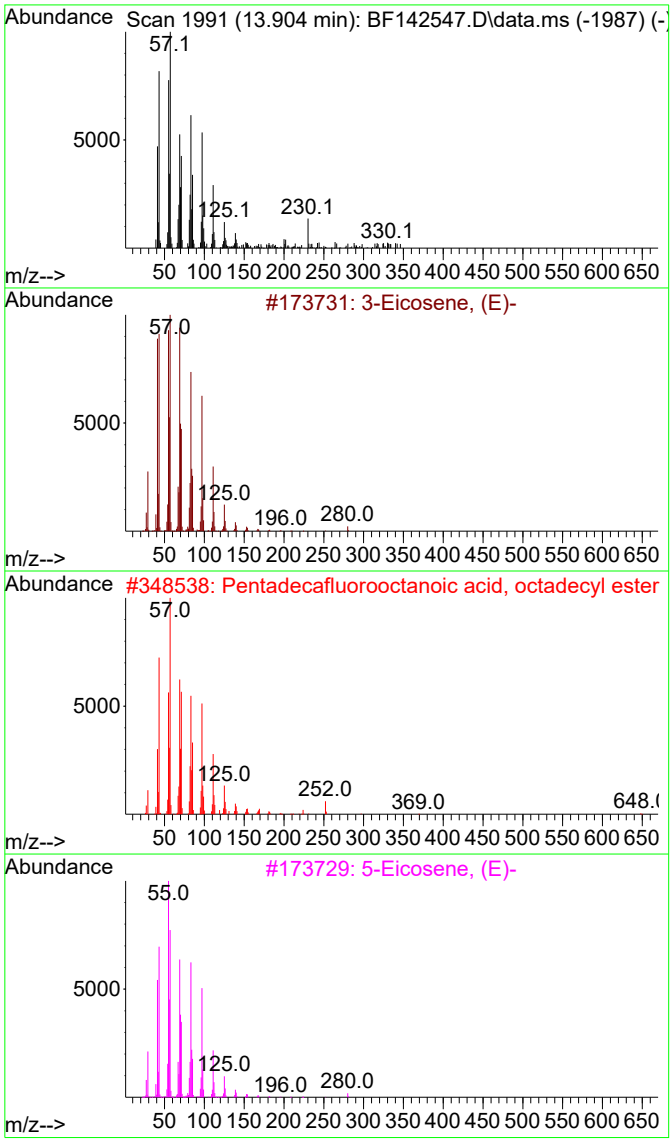
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

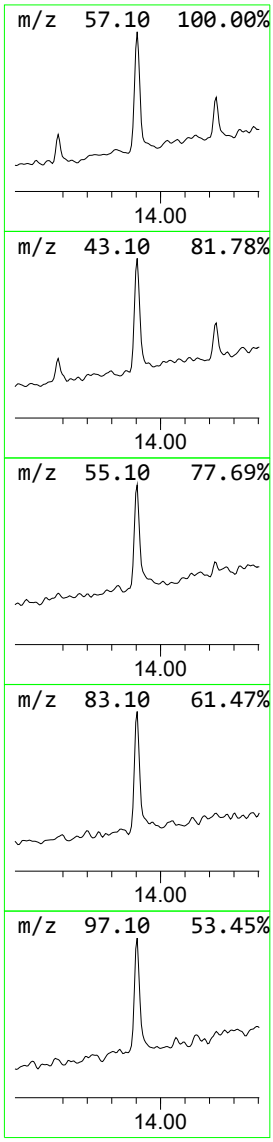
****

Peak Number 5 3-Eicosene, (E)- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.904	3.97 ng	133514	Chrysene-d12	14.069

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Eicosene, (E)-	280	C20H40	074685-33-9	95
2	Pentadecafluorooctanoic acid, oc...	666	C26H37F15O2	1000406-04-8	94
3	5-Eicosene, (E)-	280	C20H40	074685-30-6	93
4	1-Nonadecene	266	C19H38	018435-45-5	93
5	Heptadecyl heptafluorobutyrate	452	C21H35F7O2	959085-66-6	93





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052325\
Data File : BF142547.D
Acq On : 23 May 2025 20:53
Operator : RC/JU
Sample : Q2100-03
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-21

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

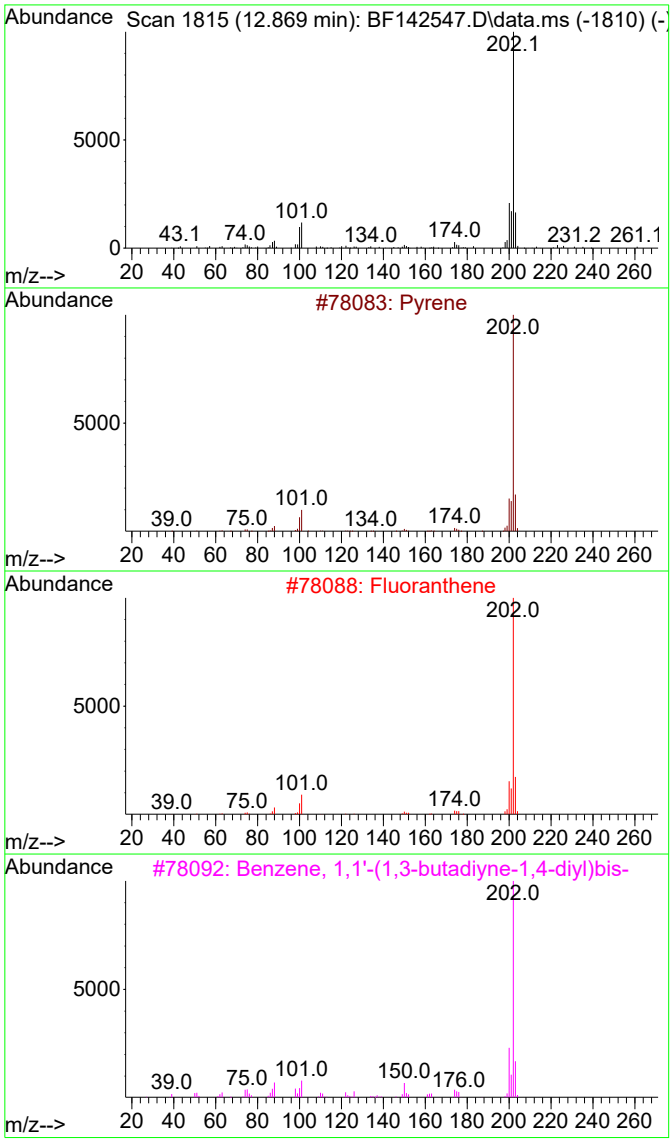
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

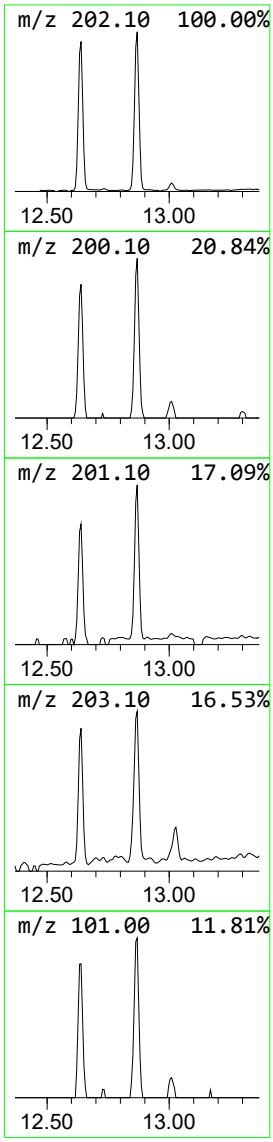
****

Peak Number 6 unknown12.869 Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.869	2.34 ng	78791	Chrysene-d12	14.069

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene	202	C16H10	000129-00-0	96
2	Fluoranthene	202	C16H10	000206-44-0	91
3	Benzene, 1,1'-(1,3-butadiyne-1,4...	202	C16H10	000886-66-8	39
4	Succinic acid, di(4-cyanophenyl)...	320	C18H12N2O4	1000360-71-2	38
5	Pyrimidine, 4-methoxy-6-(2-hydro...	202	C11H10N2O2	097630-79-0	33





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052325\
Data File : BF142547.D
Acq On : 23 May 2025 20:53
Operator : RC/JU
Sample : Q2100-03
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-21

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	5.0	ng	148569	1	6.898	594500	20.0
Benzophenone	10.645	4.1	ng	121064	3	9.933	596291	20.0
n-Hexadecanoic ...	11.945	4.7	ng	136370	4	11.422	582788	20.0
3-Eicosene, (E)-	13.904	4.0	ng	133514	5	14.069	672990	20.0
unknown12.869	12.869	2.3	ng	78791	5	14.069	672990	20.0

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052325\
Data File : BF142530.D
Acq On : 23 May 2025 12:43
Operator : RC/JU
Sample : Q2100-04
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-45

Quant Time: May 23 14:29:03 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

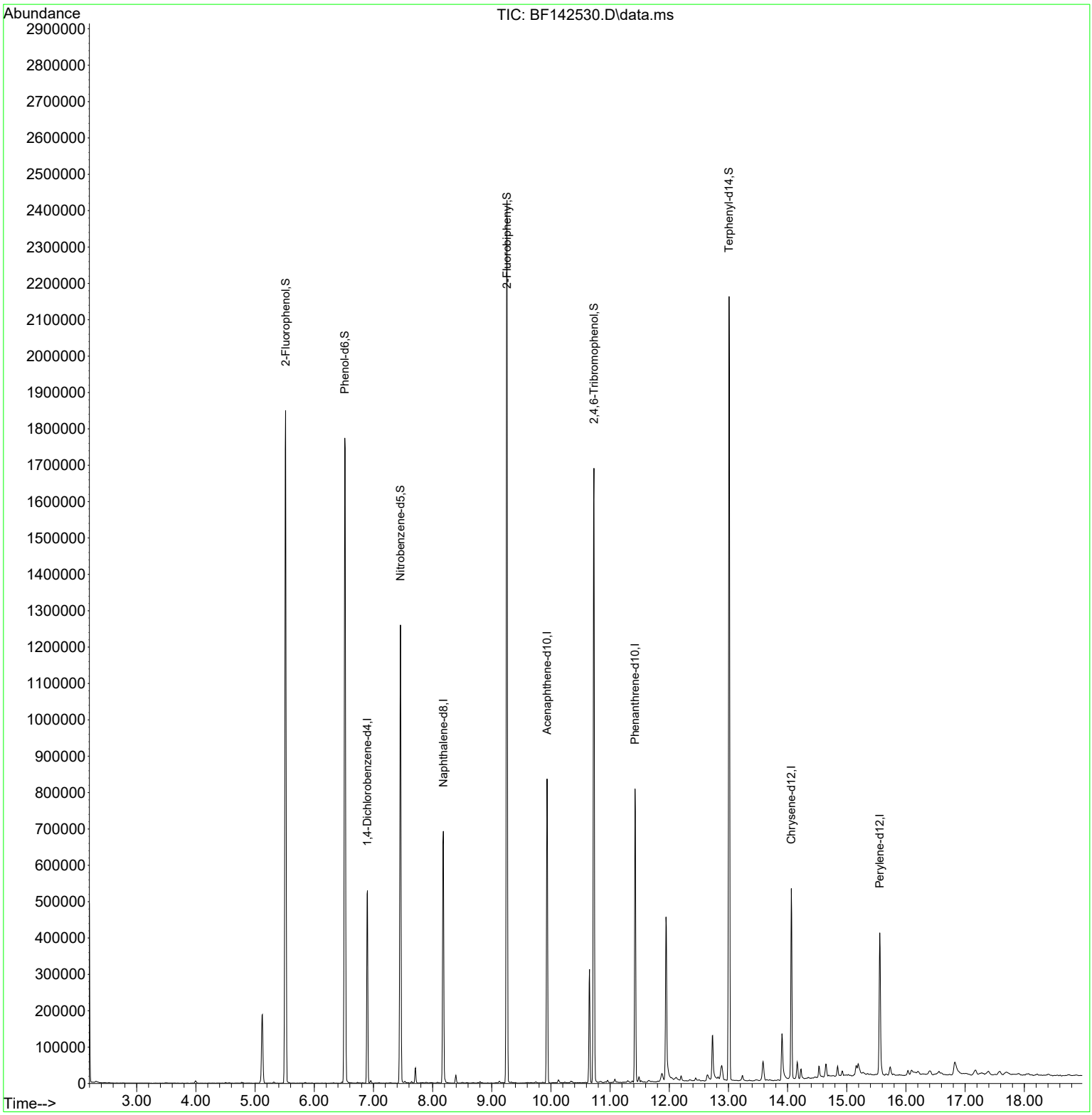
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.898	152	118740	20.000	ng	0.00
21) Naphthalene-d8	8.181	136	456173	20.000	ng	0.00
39) Acenaphthene-d10	9.933	164	248248	20.000	ng	-0.01
64) Phenanthrene-d10	11.422	188	426449	20.000	ng	-0.01
76) Chrysene-d12	14.063	240	251802	20.000	ng	-0.01
86) Perylene-d12	15.557	264	225815	20.000	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.516	112	742208	105.309	ng	0.00
7) Phenol-d6	6.516	99	921872	108.660	ng	-0.02
23) Nitrobenzene-d5	7.457	82	559375	66.865	ng	-0.02
42) 2,4,6-Tribromophenol	10.727	330	313361	113.733	ng	-0.01
45) 2-Fluorobiphenyl	9.257	172	1140977	61.674	ng	-0.01
79) Terphenyl-d14	13.010	244	1073528	58.261	ng	0.00
Target Compounds						Qvalue

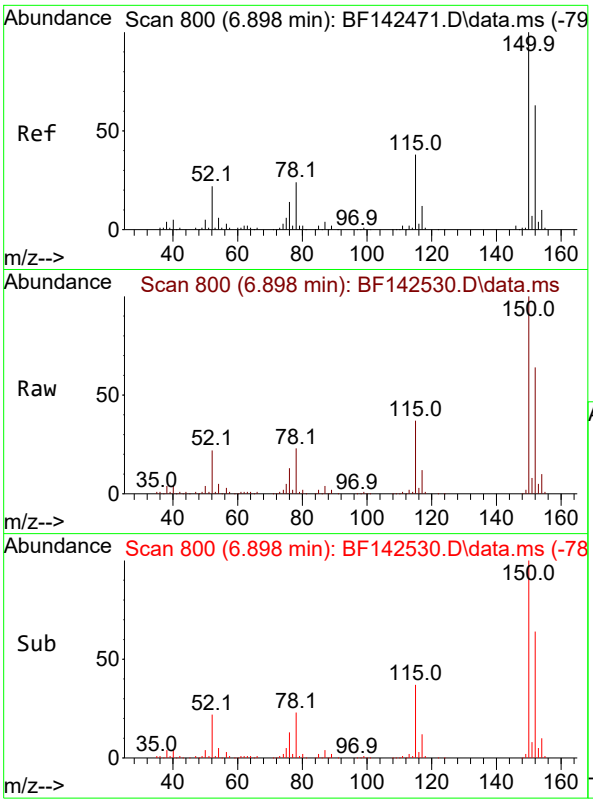
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052325\
Data File : BF142530.D
Acq On : 23 May 2025 12:43
Operator : RC/JU
Sample : Q2100-04
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-45

Quant Time: May 23 14:29:03 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



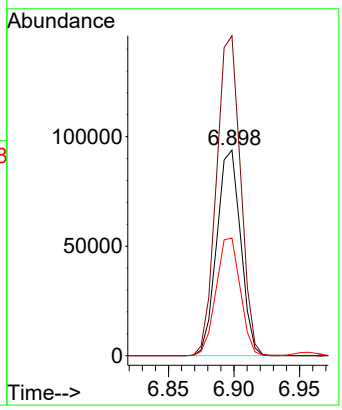


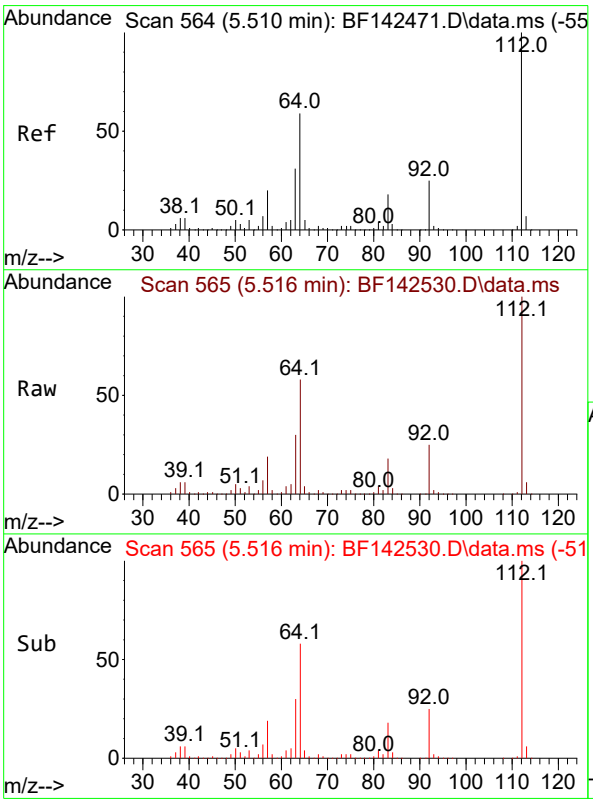
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.898 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF142530.D
Acq: 23 May 2025 12:43

Instrument :
BNA_F
ClientSampleId :
TP-45

Tgt Ion:152 Resp: 118740

Ion	Ratio	Lower	Upper
152	100		
150	155.6	128.2	192.4
115	57.2	48.3	72.5

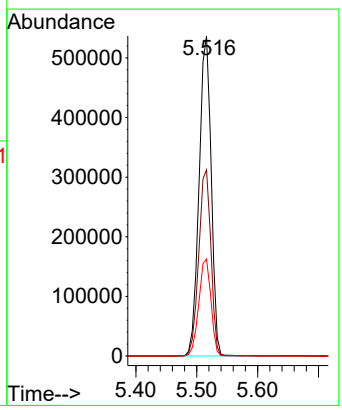


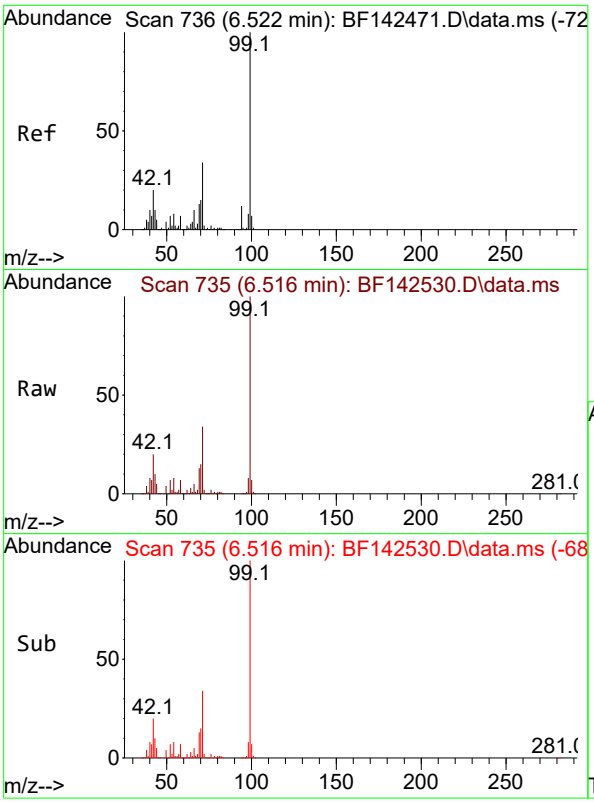


#5
2-Fluorophenol
Concen: 105.309 ng
RT: 5.516 min Scan# 565
Delta R.T. 0.000 min
Lab File: BF142530.D
Acq: 23 May 2025 12:43

Tgt Ion:112 Resp: 742208

Ion	Ratio	Lower	Upper
112	100		
64	58.2	47.5	71.3
63	30.3	24.9	37.3



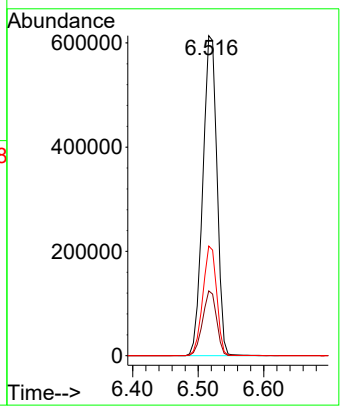


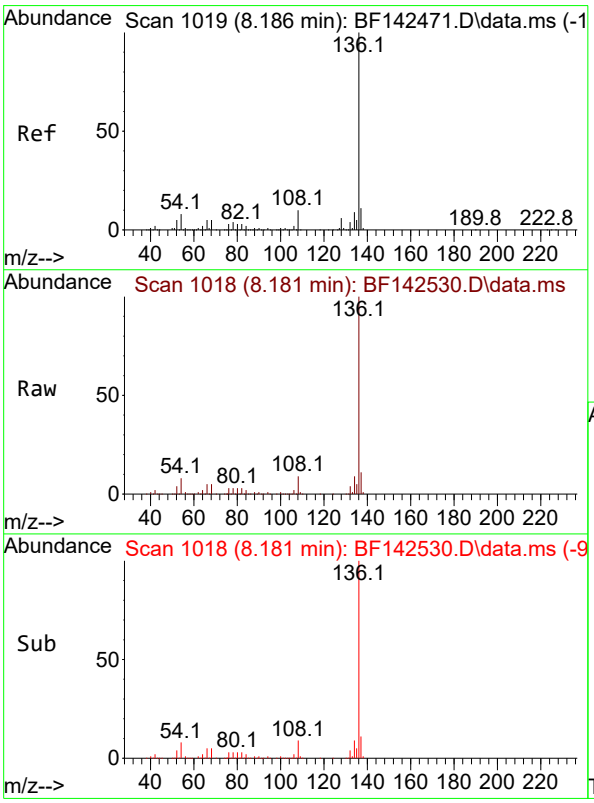
#7
Phenol-d6
Concen: 108.660 ng
RT: 6.516 min Scan# 7
Delta R.T. -0.018 min
Lab File: BF142530.D
Acq: 23 May 2025 12:43

Instrument :
BNA_F
ClientSampleId :
TP-45

Tgt Ion: 99 Resp: 921872

Ion	Ratio	Lower	Upper
99	100		
42	20.3	16.2	24.2
71	34.2	27.3	40.9

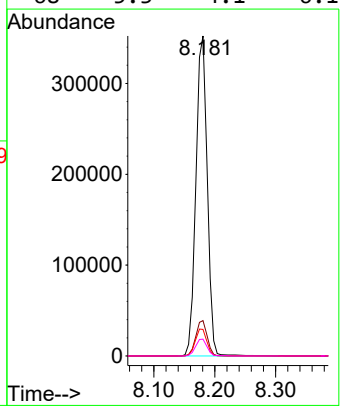


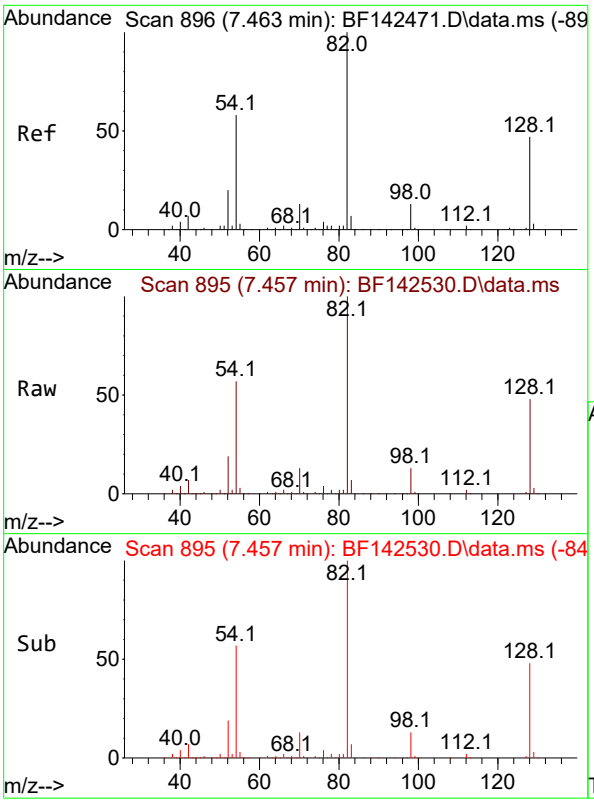


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.181 min Scan# 1018
Delta R.T. -0.006 min
Lab File: BF142530.D
Acq: 23 May 2025 12:43

Tgt Ion:136 Resp: 456173

Ion	Ratio	Lower	Upper
136	100		
137	11.0	8.6	13.0
54	8.3	6.6	10.0
68	5.3	4.1	6.1



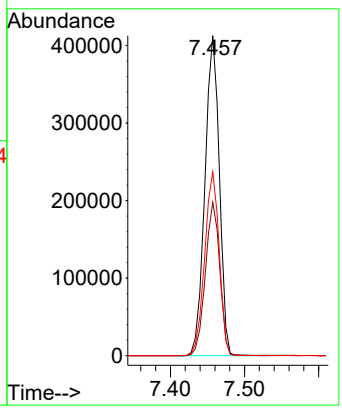


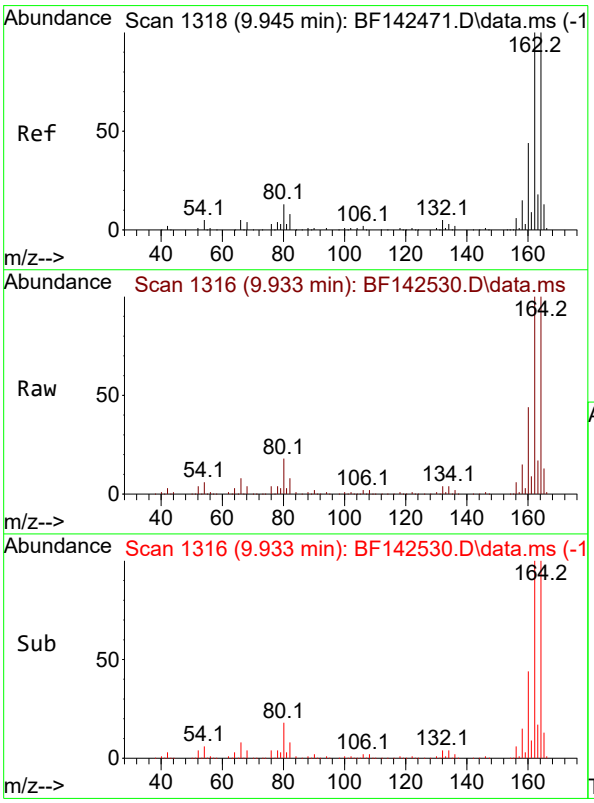
#23
Nitrobenzene-d5
Concen: 66.865 ng
RT: 7.457 min Scan# 8
Delta R.T. -0.018 min
Lab File: BF142530.D
Acq: 23 May 2025 12:43

Instrument :
BNA_F
ClientSampleId :
TP-45

Tgt Ion: 82 Resp: 559375

Ion	Ratio	Lower	Upper
82	100		
128	47.9	37.4	56.2
54	57.4	46.6	70.0

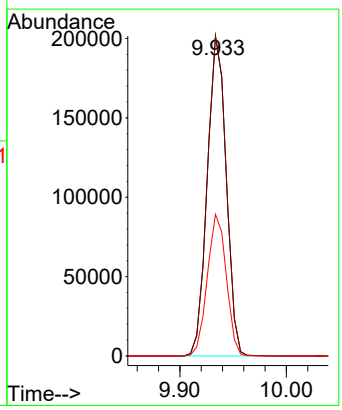


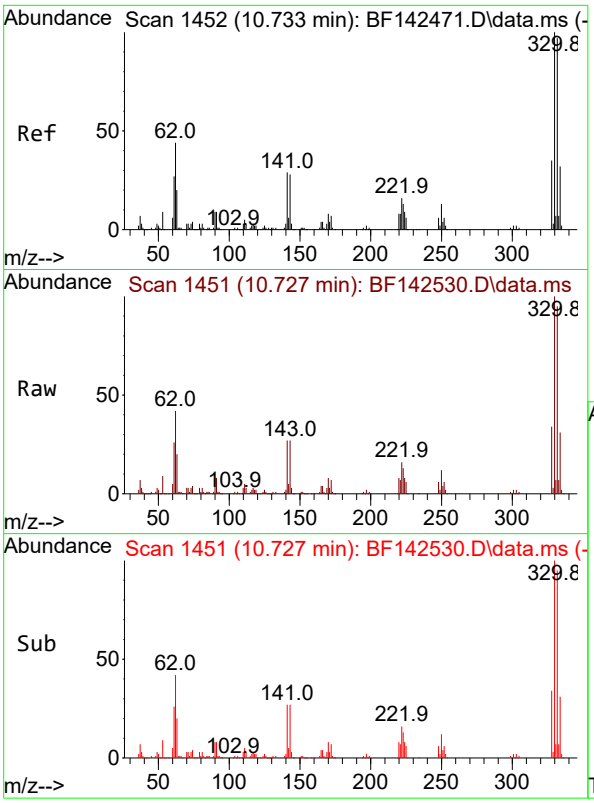


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.933 min Scan# 1316
Delta R.T. -0.012 min
Lab File: BF142530.D
Acq: 23 May 2025 12:43

Tgt Ion:164 Resp: 248248

Ion	Ratio	Lower	Upper
164	100		
162	100.0	80.2	120.4
160	44.3	35.6	53.4



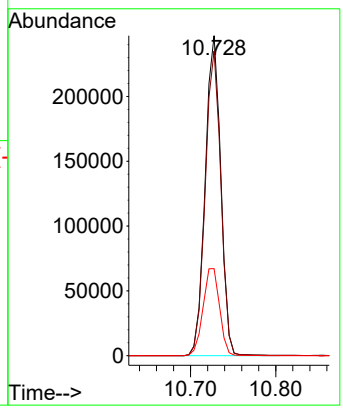


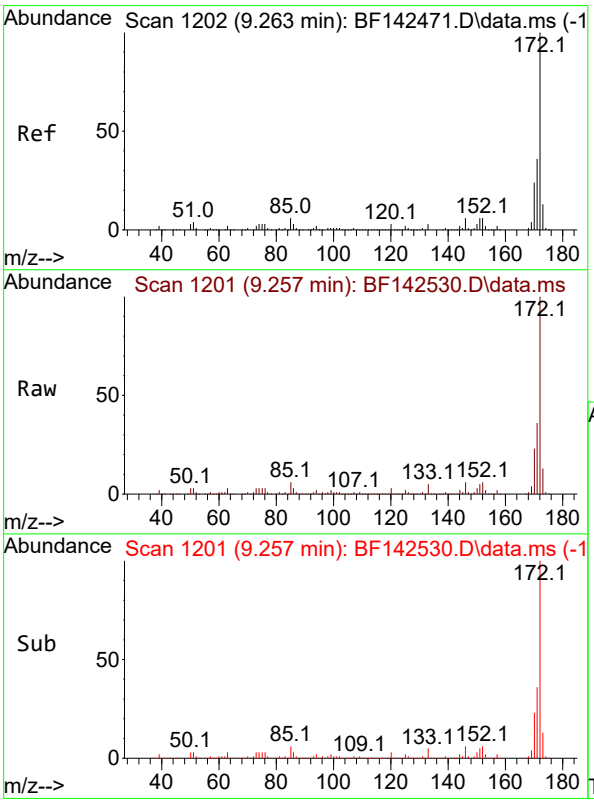
#42
2,4,6-Tribromophenol
Concen: 113.733 ng
RT: 10.727 min Scan# 14
Delta R.T. -0.012 min
Lab File: BF142530.D
Acq: 23 May 2025 12:43

Instrument :
BNA_F
ClientSampleId :
TP-45

Tgt Ion:330 Resp: 313361

Ion	Ratio	Lower	Upper
330	100		
332	95.5	77.6	116.4
141	28.9	24.6	36.8

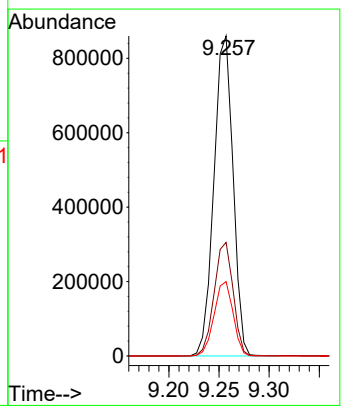


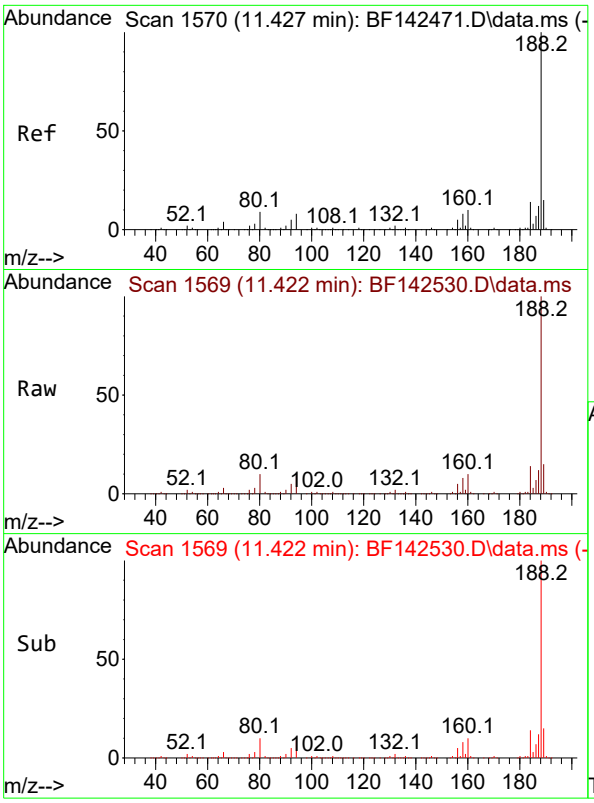


#45
2-Fluorobiphenyl
Concen: 61.674 ng
RT: 9.257 min Scan# 1201
Delta R.T. -0.012 min
Lab File: BF142530.D
Acq: 23 May 2025 12:43

Tgt Ion:172 Resp: 1140977

Ion	Ratio	Lower	Upper
172	100		
171	35.5	28.6	42.8
170	23.3	18.9	28.3



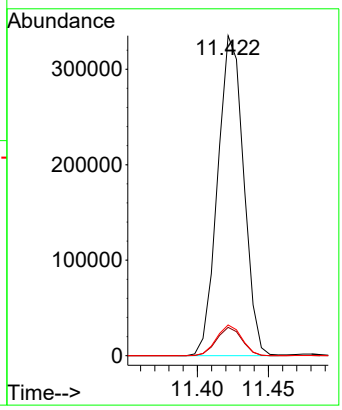


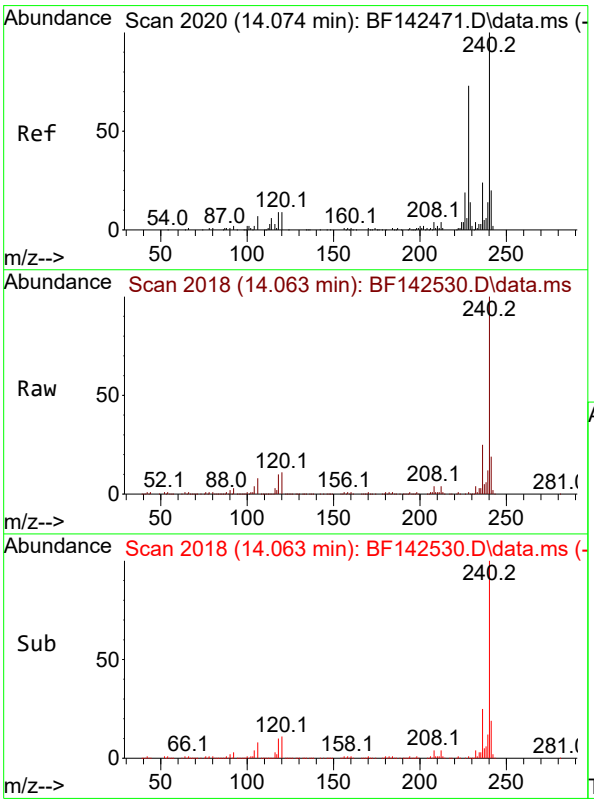
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.422 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF142530.D
Acq: 23 May 2025 12:43

Instrument :
BNA_F
ClientSampleId :
TP-45

Tgt Ion:188 Resp: 426449

Ion	Ratio	Lower	Upper
188	100		
94	8.8	6.6	10.0
80	9.6	7.4	11.0

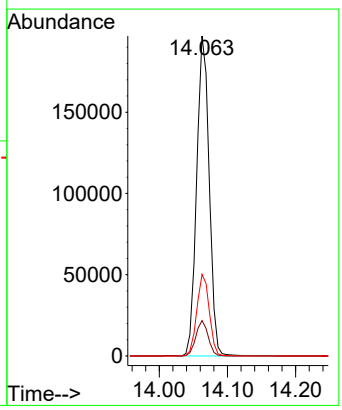


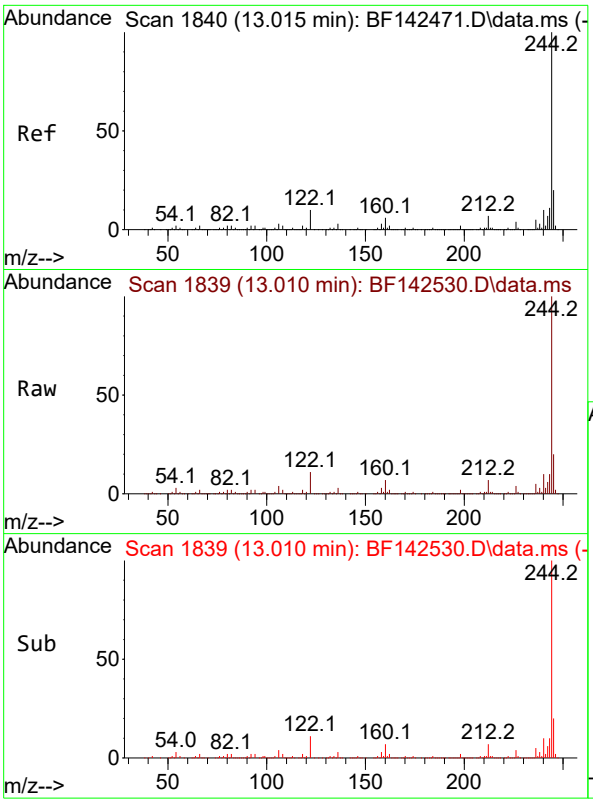


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.063 min Scan# 2018
Delta R.T. -0.012 min
Lab File: BF142530.D
Acq: 23 May 2025 12:43

Tgt Ion:240 Resp: 251802

Ion	Ratio	Lower	Upper
240	100		
120	11.0	7.5	11.3
236	25.5	19.6	29.4



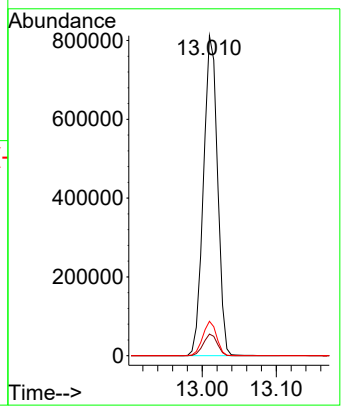


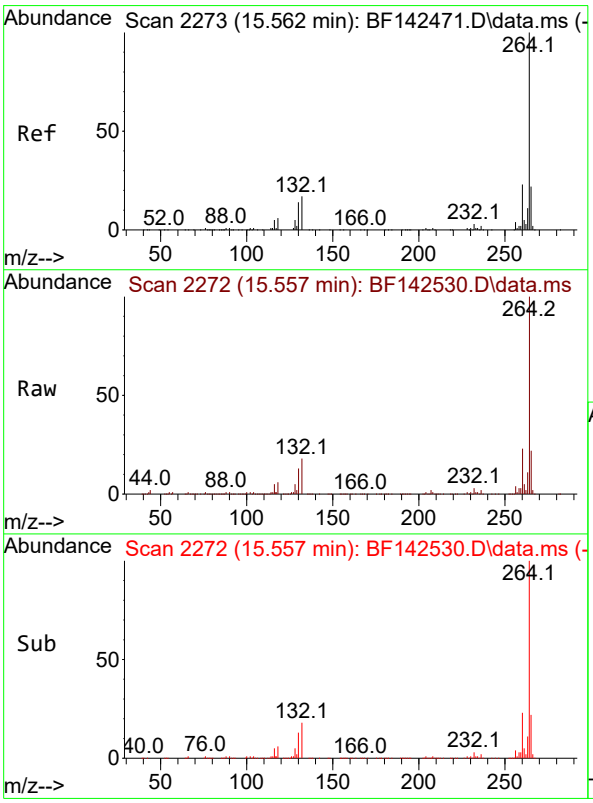
#79
Terphenyl-d14
Concen: 58.261 ng
RT: 13.010 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF142530.D
Acq: 23 May 2025 12:43

Instrument :
BNA_F
ClientSampleId :
TP-45

Tgt Ion:244 Resp: 1073528

Ion	Ratio	Lower	Upper
244	100		
212	6.7	5.3	7.9
122	10.8	8.2	12.2

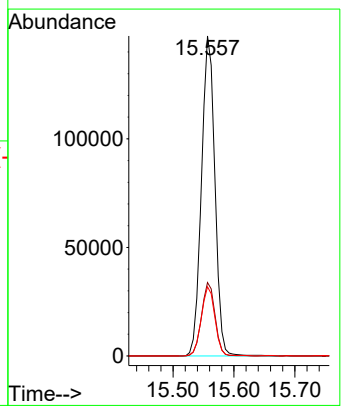




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.557 min Scan# 2272
Delta R.T. -0.012 min
Lab File: BF142530.D
Acq: 23 May 2025 12:43

Tgt Ion:264 Resp: 225815

Ion	Ratio	Lower	Upper
264	100		
260	22.9	18.6	28.0
265	21.6	17.7	26.5



Sample Results: **BF142530.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052325\
Data File : BF142530.D
Acq On : 23 May 2025 12:43
Operator : RC/JU
Sample : Q2100-04
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-45

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: BF142530.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	5.122	488	498	507	rBV	188631	310514	9.62%	1.358%
2	5.516	558	565	570	rBV	1848935	2561546	79.33%	11.202%
3	6.516	729	735	741	rBV	1772247	2667509	82.61%	11.666%
4	6.898	794	800	805	rBV	529254	678983	21.03%	2.969%
5	7.457	888	895	900	rBV	1259761	1706016	52.83%	7.461%
6	7.710	933	938	944	rVB	41642	53036	1.64%	0.232%
7	8.181	1012	1018	1030	rBV	692063	904430	28.01%	3.955%
8	9.257	1194	1201	1206	rBV	2427273	3229078	100.00%	14.121%
9	9.933	1311	1316	1321	rBV	836131	1027413	31.82%	4.493%
10	10.651	1432	1438	1443	rBV	311394	382499	11.85%	1.673%
11	10.728	1445	1451	1456	rBV	1689108	2225719	68.93%	9.734%
12	11.422	1564	1569	1576	rBV	806493	1029277	31.88%	4.501%
13	11.874	1638	1646	1652	rBV	21860	53758	1.66%	0.235%
14	11.945	1652	1658	1672	rVV	447532	699327	21.66%	3.058%
15	12.645	1771	1777	1785	rBV3	16111	42549	1.32%	0.186%
16	12.733	1786	1792	1804	rVV	120829	209221	6.48%	0.915%
17	12.886	1811	1818	1833	rVB3	40291	102443	3.17%	0.448%
18	13.010	1833	1839	1844	rBV	2155410	2827096	87.55%	12.363%
19	13.586	1929	1937	1944	rVB2	51417	101199	3.13%	0.443%
20	13.904	1986	1991	2005	rBV	128244	246533	7.63%	1.078%
21	14.063	2011	2018	2027	rVB	522471	671213	20.79%	2.935%
22	14.163	2029	2035	2041	rVV	45016	72744	2.25%	0.318%
23	14.227	2041	2046	2056	rVB	26418	40671	1.26%	0.178%
24	14.527	2093	2097	2104	rBV	31112	49961	1.55%	0.218%
25	14.645	2112	2117	2123	rBV	34496	61471	1.90%	0.269%
26	14.845	2146	2151	2156	rBV	27142	38834	1.20%	0.170%
27	15.157	2200	2204	2207	rBV	22688	40052	1.24%	0.175%
28	15.192	2208	2210	2220	rVB2	26598	51833	1.61%	0.227%
29	15.557	2266	2272	2286	rVB	391982	631958	19.57%	2.764%
30	15.733	2297	2302	2309	rVB	21238	38980	1.21%	0.170%
31	16.827	2482	2488	2508	rVB	31644	110663	3.43%	0.484%

Sum of corrected areas: 22866526

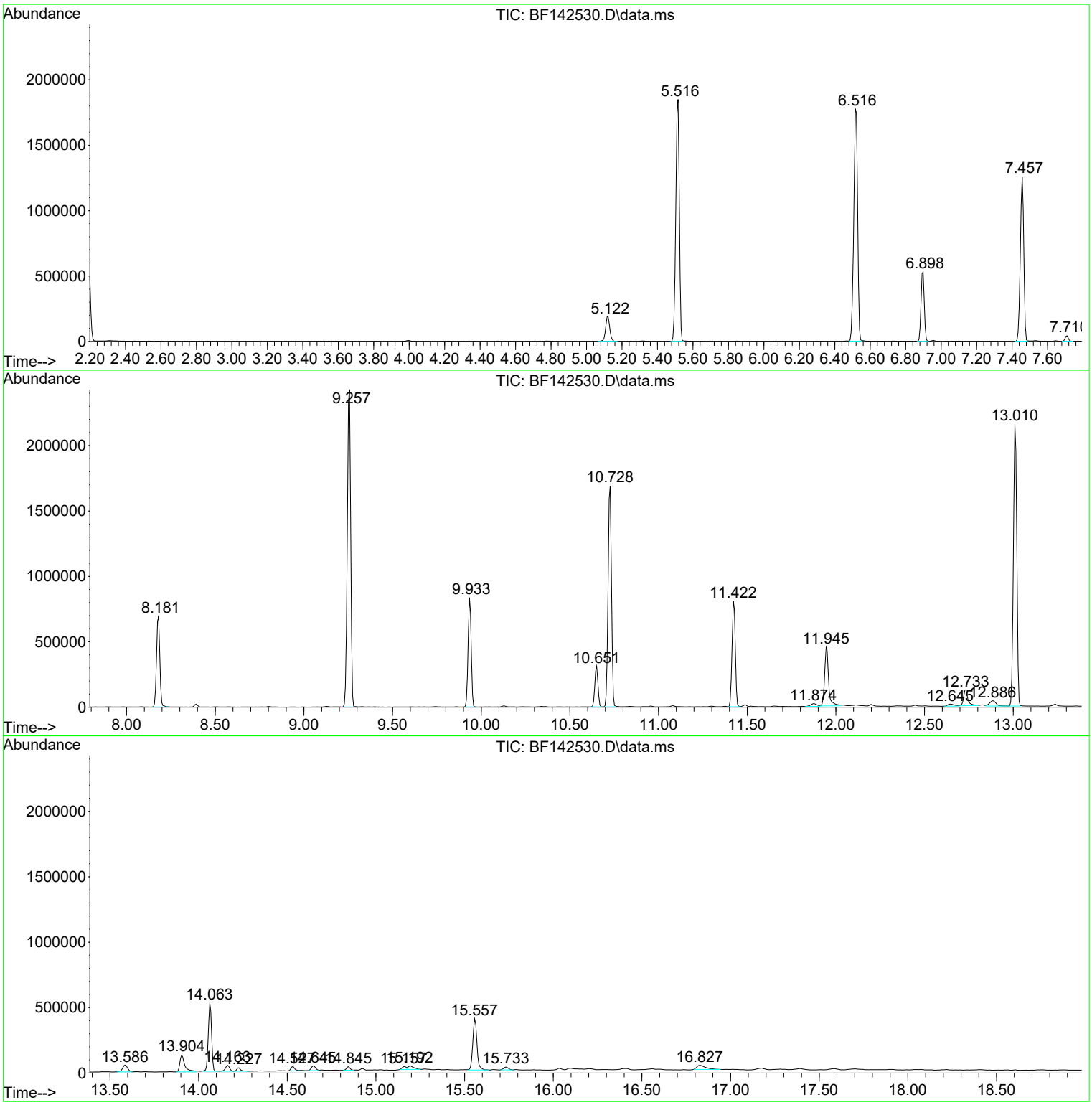
Sample Results: **BF142530.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052325\
Data File : BF142530.D
Acq On : 23 May 2025 12:43
Operator : RC/JU
Sample : Q2100-04
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-45

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\BF052325\
Data File : BF142530.D
Acq On : 23 May 2025 12:43
Operator : RC/JU
Sample : Q2100-04
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-45

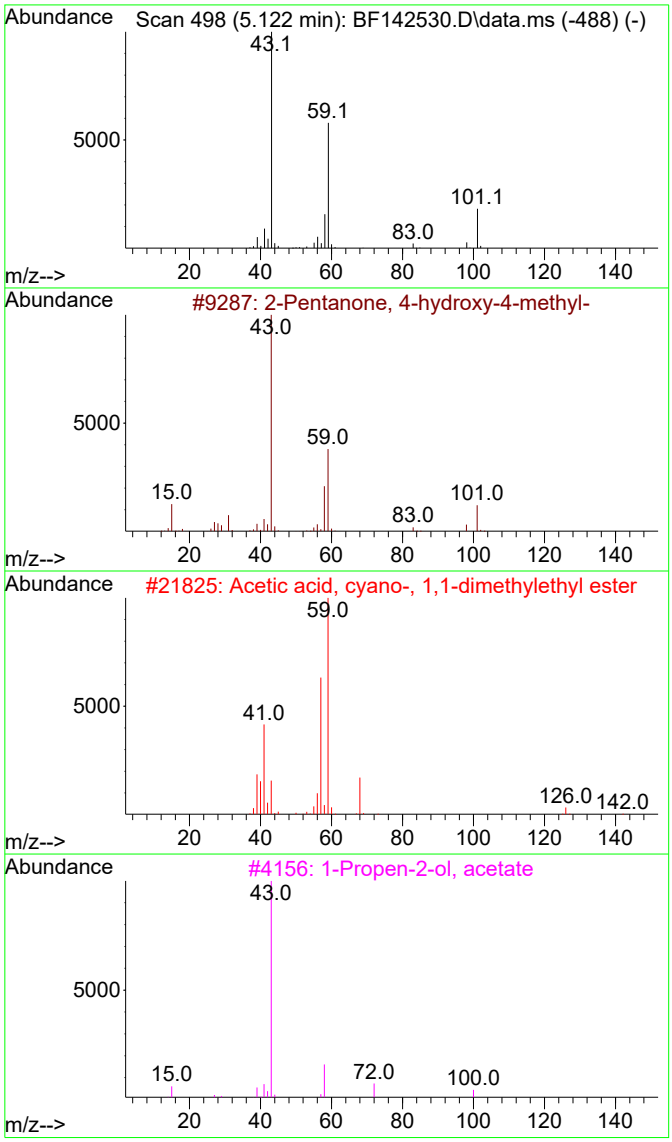
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

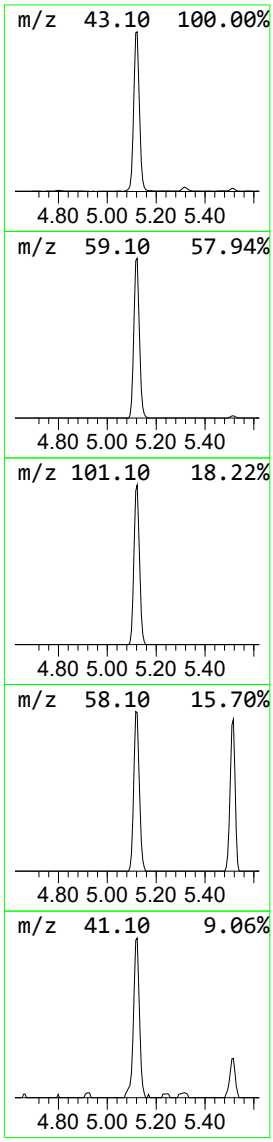
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 1 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.122	9.15 ng	310514	1,4-Dichlorobenzene-d4	6.898

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	2,3-Butanedione, monooxime	101	C4H7NO2	000057-71-6	9
5	Morpholine, 4-methyl-	101	C5H11NO	000109-02-4	9





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052325\
Data File : BF142530.D
Acq On : 23 May 2025 12:43
Operator : RC/JU
Sample : Q2100-04
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-45

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

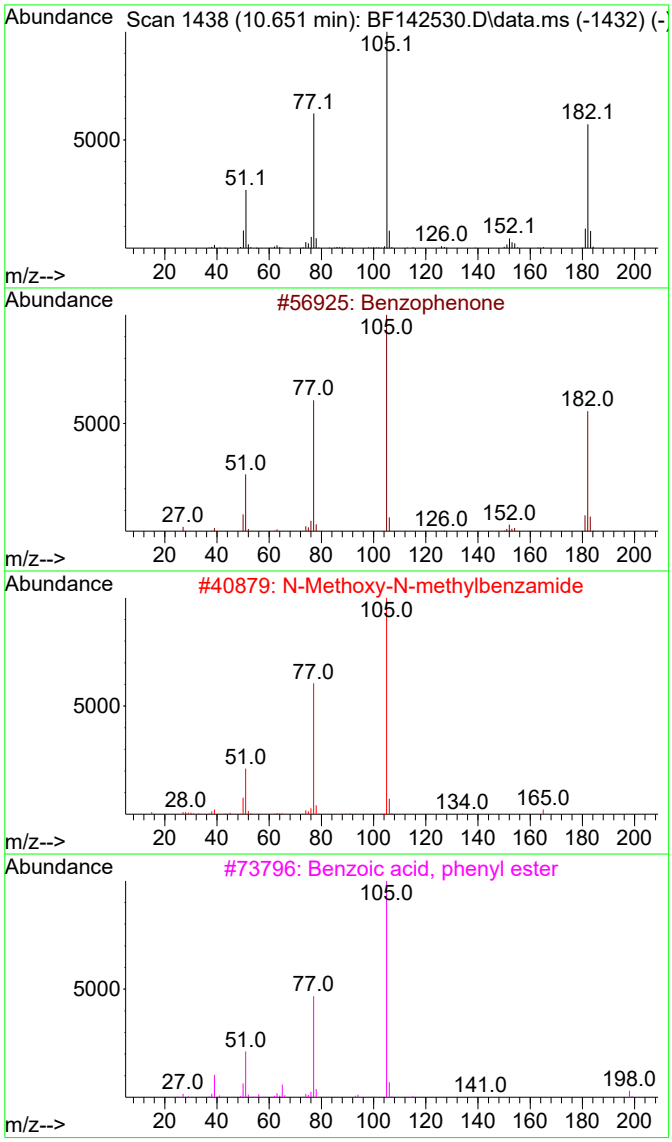
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

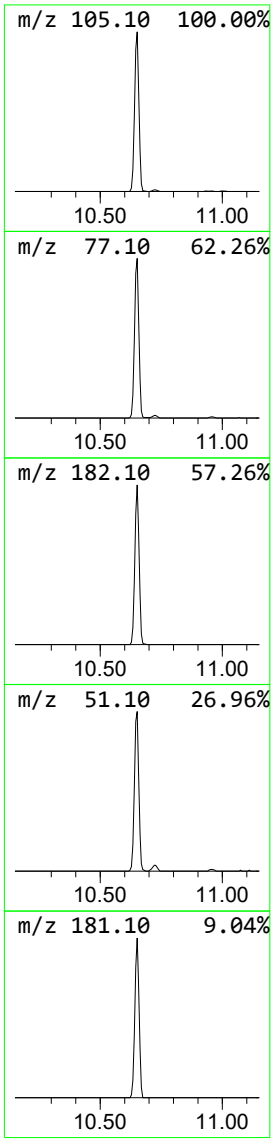
****

Peak Number 2 Benzophenone Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.651	7.45 ng	382499	Acenaphthene-d10	9.933

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzophenone	182	C13H10O	000119-61-9	96
2	N-Methoxy-N-methylbenzamide	165	C9H11NO2	006919-61-5	47
3	Benzoic acid, phenyl ester	198	C13H10O2	000093-99-2	47
4	1-Propanone, 2-bromo-1-phenyl-	212	C9H9BrO	002114-00-3	47
5	Benzenebutanoic acid, .gamma.-oxo-	178	C10H10O3	002051-95-8	47





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052325\
Data File : BF142530.D
Acq On : 23 May 2025 12:43
Operator : RC/JU
Sample : Q2100-04
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-45

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

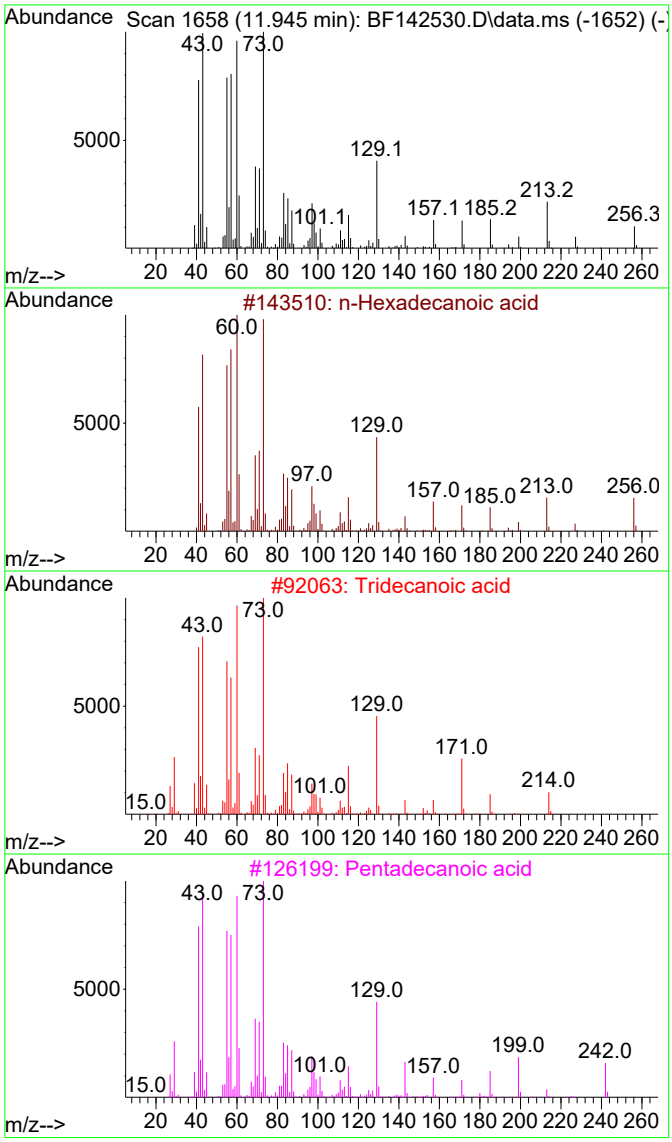
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

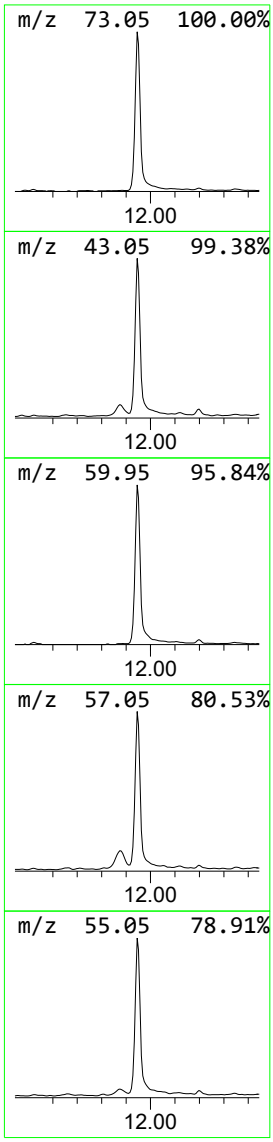
****

Peak Number 3 n-Hexadecanoic acid Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.945	13.59 ng	699327	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	93
3	Pentadecanoic acid	242	C15H30O2	001002-84-2	91
4	Tetradecanoic acid	228	C14H28O2	000544-63-8	83
5	n-Decanoic acid	172	C10H20O2	000334-48-5	60





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Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052325\
Data File : BF142530.D
Acq On    : 23 May 2025  12:43
Operator  : RC/JU
Sample    : Q2100-04
Misc      :
ALS Vial  : 5   Sample Multiplier: 1

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title  : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

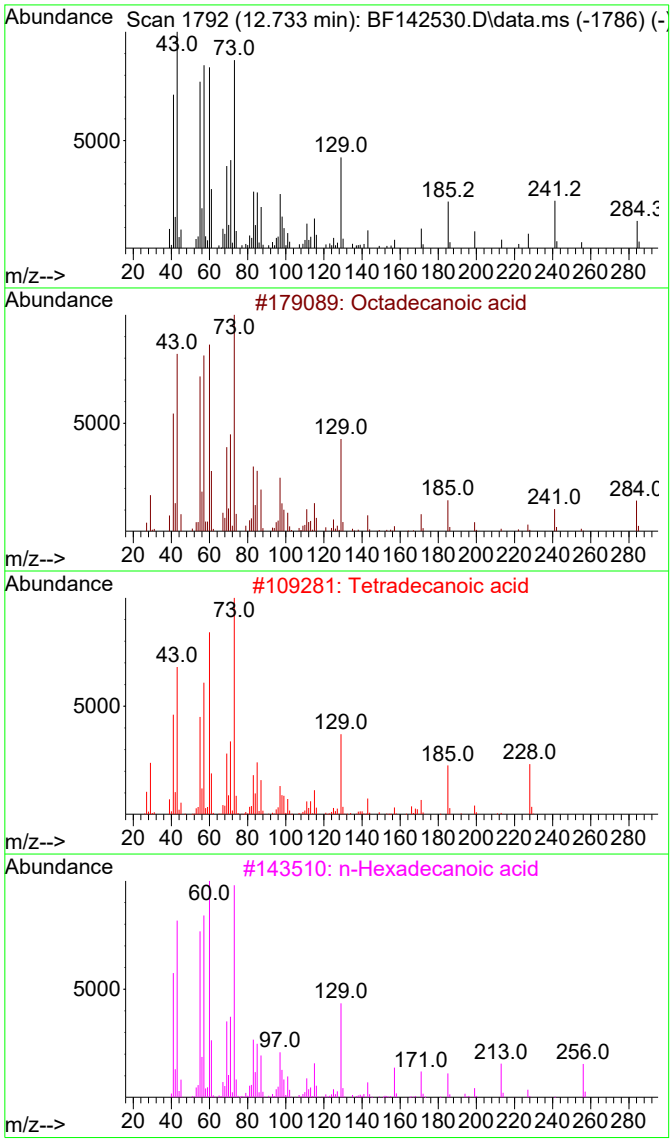
TIC Library   : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P
```

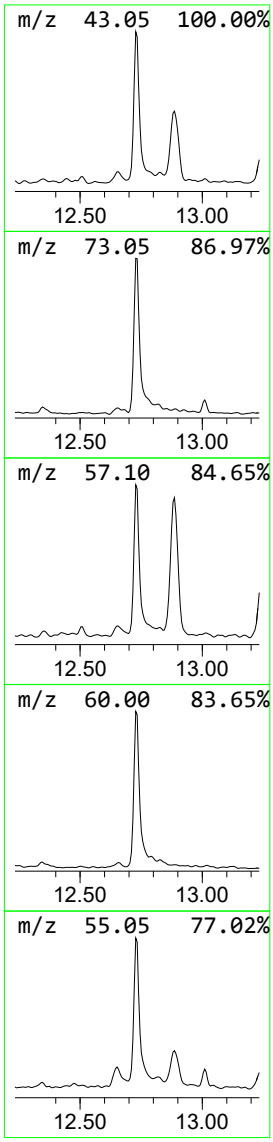
Instrument :
BNA_F
ClientSampleId :
TP-45

Peak Number 4 Octadecanoic acid Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.733	4.07 ng	209221	Phenanthrene-d10	11.422

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octadecanoic acid	284	C18H36O2	000057-11-4	99
2	Tetradecanoic acid	228	C14H28O2	000544-63-8	83
3	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	74
4	Octadecanoic acid, 2-(2-hydroxye...	372	C22H44O4	000106-11-6	72
5	Pentadecanoic acid	242	C15H30O2	001002-84-2	68





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052325\
Data File : BF142530.D
Acq On : 23 May 2025 12:43
Operator : RC/JU
Sample : Q2100-04
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-45

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

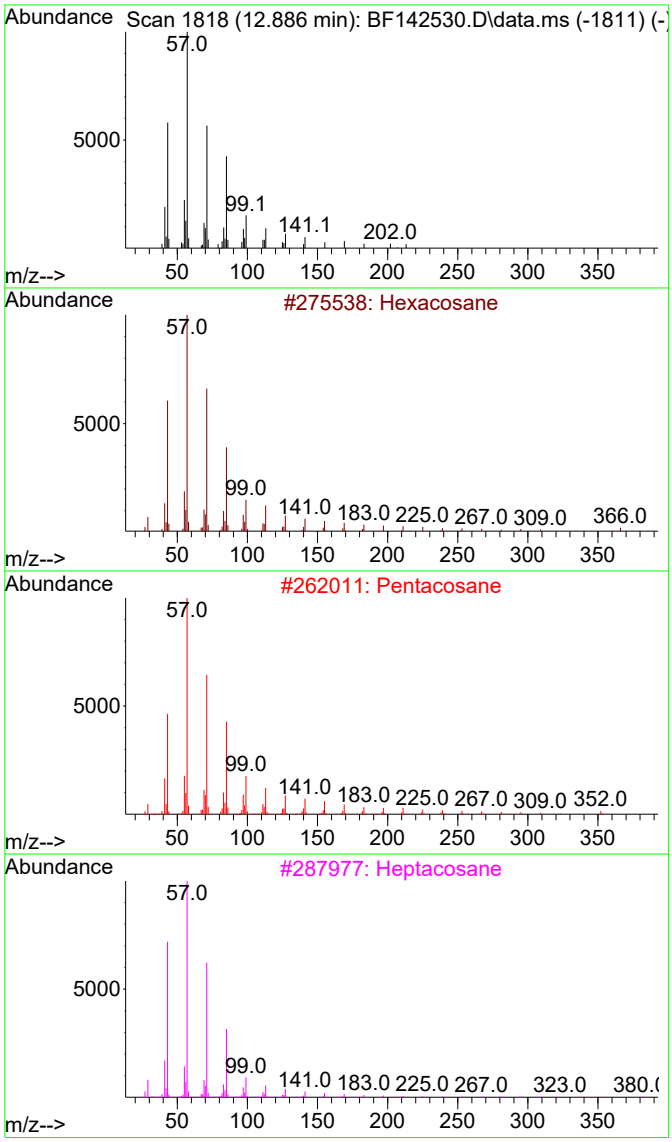
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

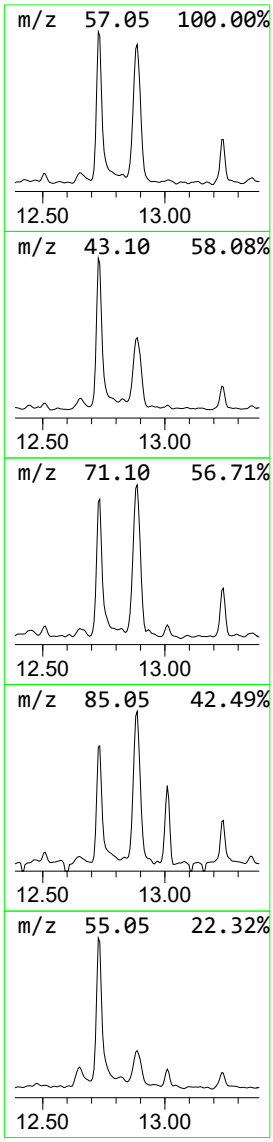
****

Peak Number 5 Hexacosane Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.886	3.05 ng	102443	Chrysene-d12	14.063

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexacosane	366	C26H54	000630-01-3	91
2	Pentacosane	352	C25H52	000629-99-2	91
3	Heptacosane	380	C27H56	000593-49-7	91
4	Octacosane	394	C28H58	000630-02-4	90
5	Heneicosane	296	C21H44	000629-94-7	90





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052325\
Data File : BF142530.D
Acq On : 23 May 2025 12:43
Operator : RC/JU
Sample : Q2100-04
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-45

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

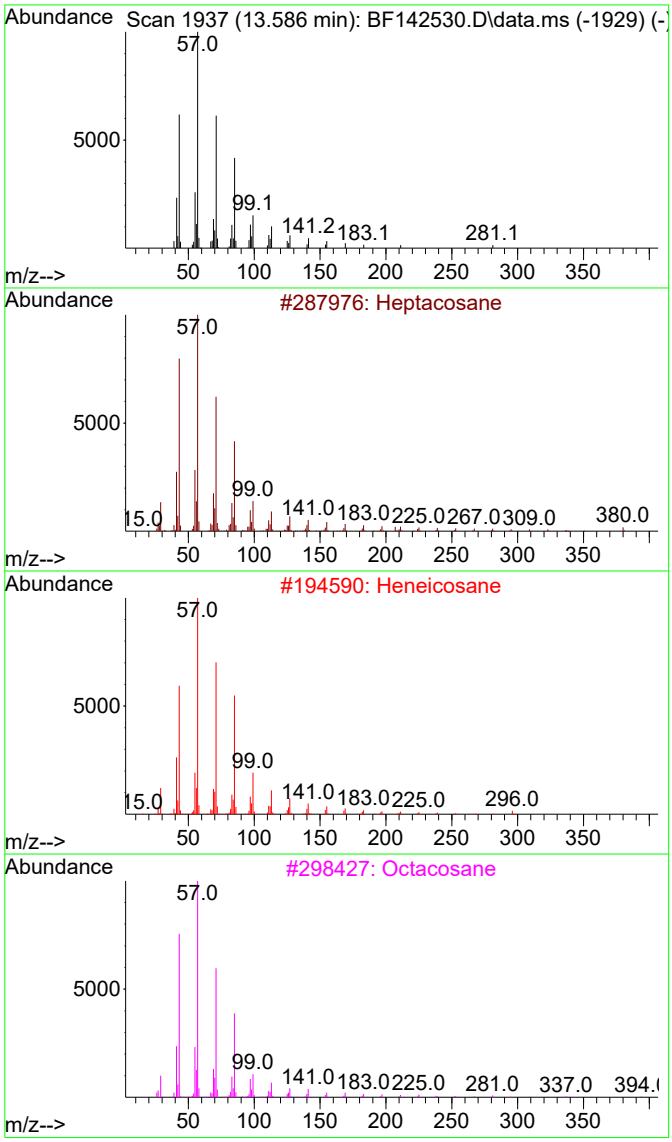
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

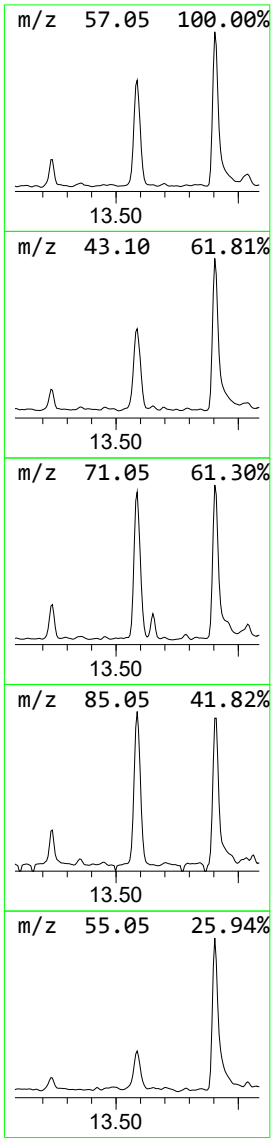
****

Peak Number 6 Heptacosane Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.586	3.02 ng	101199	Chrysene-d12	14.063

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptacosane	380	C27H56	000593-49-7	91
2	Heneicosane	296	C21H44	000629-94-7	91
3	Octacosane	394	C28H58	000630-02-4	91
4	Heptadecane, 9-octyl-	352	C25H52	007225-64-1	91
5	Hexacosane	366	C26H54	000630-01-3	91





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052325\
Data File : BF142530.D
Acq On : 23 May 2025 12:43
Operator : RC/JU
Sample : Q2100-04
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-45

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

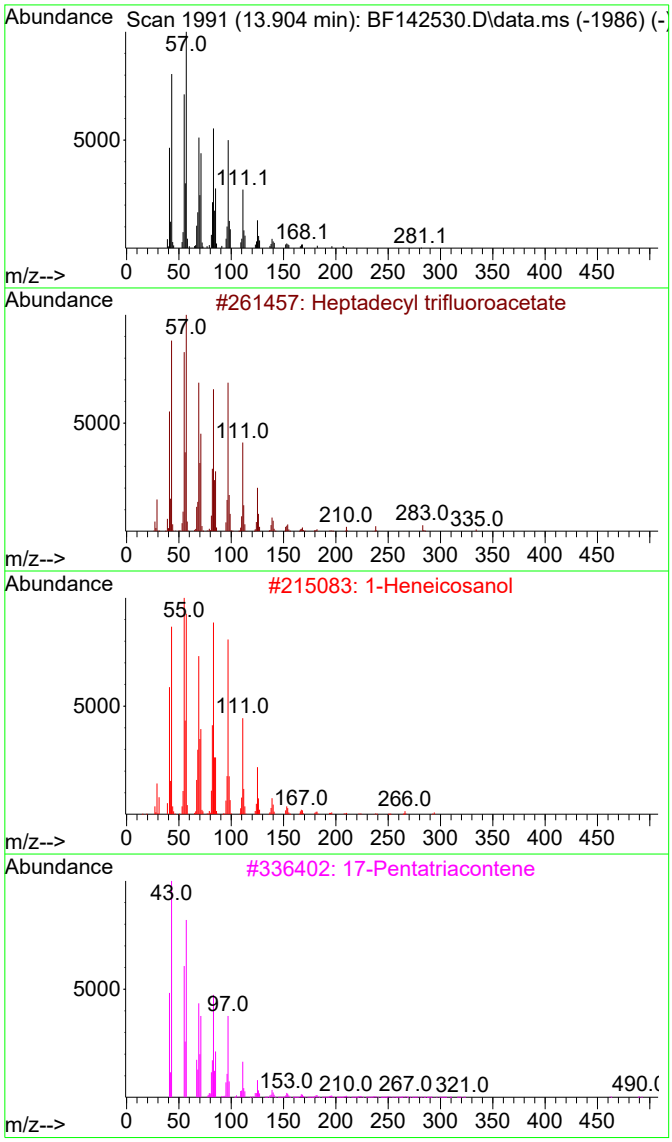
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

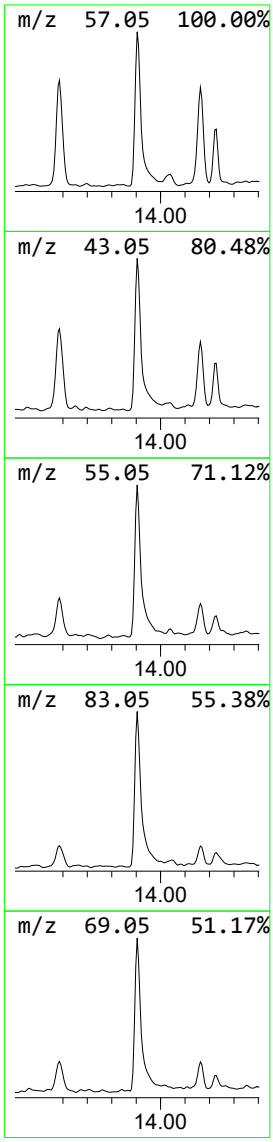
****

Peak Number 7 Heptadecyl trifluoroacetate Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.904	7.35 ng	246533	Chrysene-d12	14.063

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptadecyl trifluoroacetate	352	C19H35F3O2	1010351-87-0	94
2	1-Heneicosanol	312	C21H44O	015594-90-8	93
3	17-Pentatriacontene	491	C35H70	006971-40-0	91
4	Tricosyl trifluoroacetate	436	C25H47F3O2	1000351-75-1	91
5	1-Hexacosene	364	C26H52	018835-33-1	91





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052325\
Data File : BF142530.D
Acq On : 23 May 2025 12:43
Operator : RC/JU
Sample : Q2100-04
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-45

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

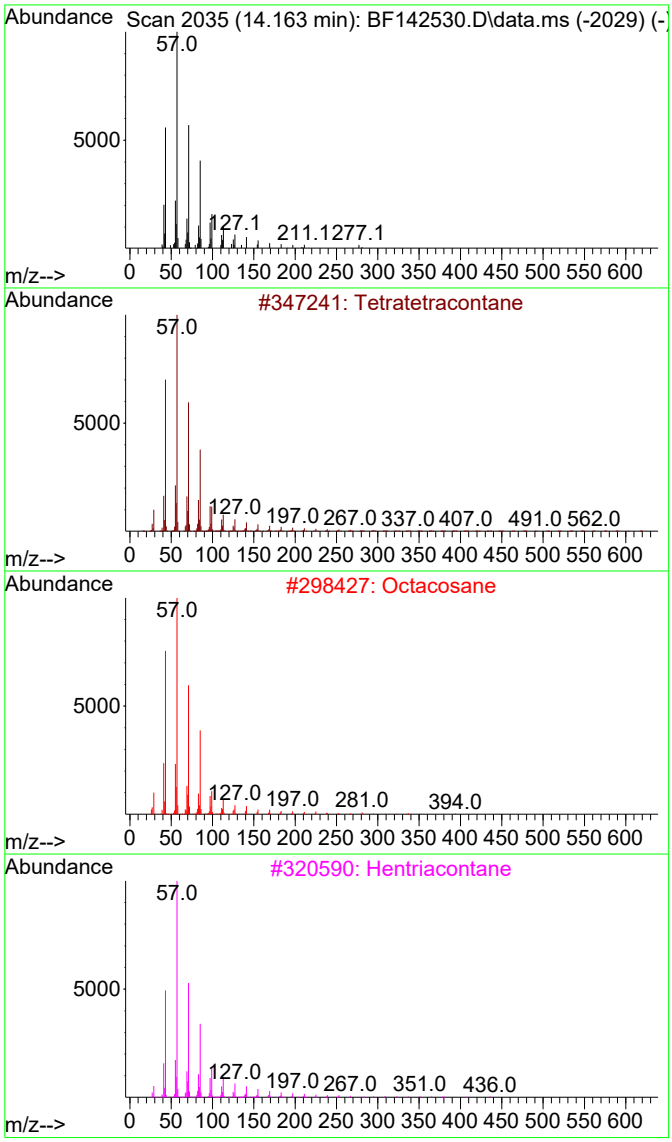
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

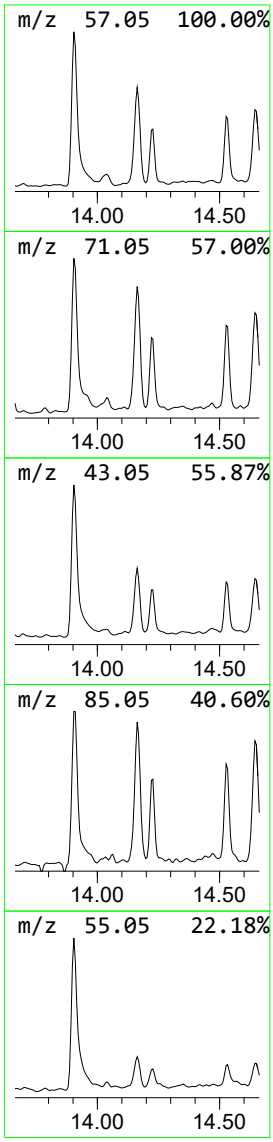
****

Peak Number 8 Tetratetracontane Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.163	2.17 ng	72744	Chrysene-d12	14.063

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Tetratetracontane	619	C44H90	007098-22-8	91
2	Octacosane	394	C28H58	000630-02-4	91
3	Hentriacontane	437	C31H64	000630-04-6	91
4	Heneicosane	296	C21H44	000629-94-7	91
5	Pentacosane	352	C25H52	000629-99-2	91





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052325\
Data File : BF142530.D
Acq On : 23 May 2025 12:43
Operator : RC/JU
Sample : Q2100-04
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-45

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

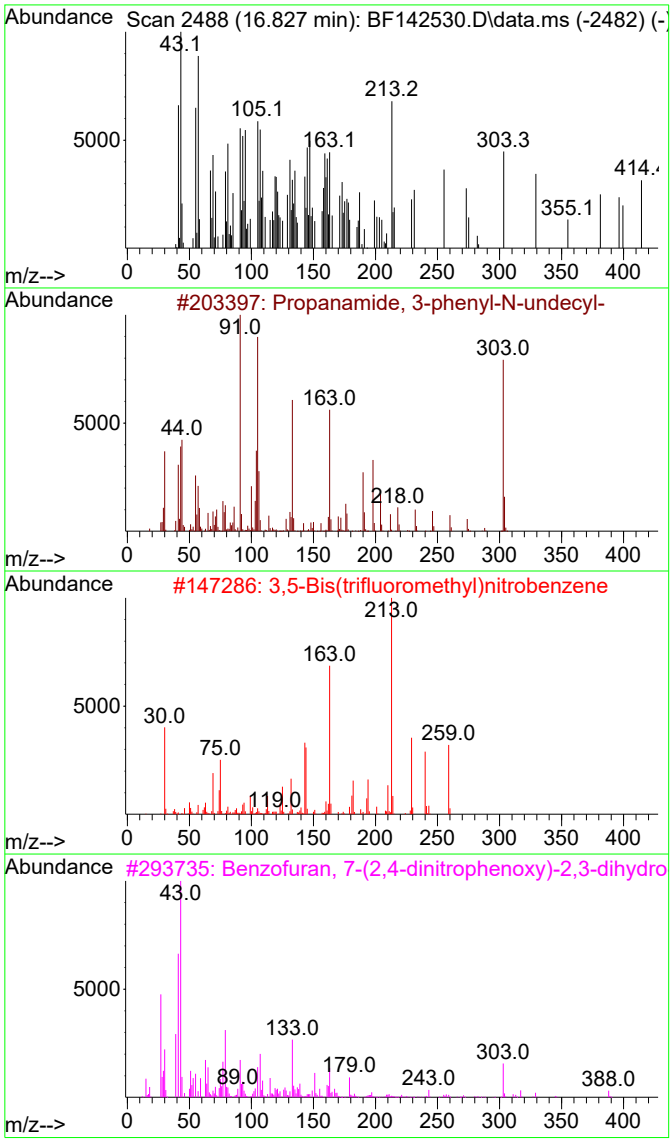
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

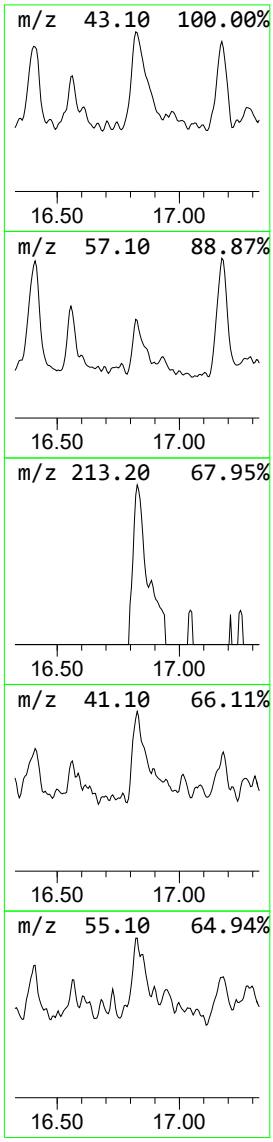
****

Peak Number 9 unknown16.827 Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.827	3.50 ng	110663	Perylene-d12	15.557

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Propanamide, 3-phenyl-N-undecyl-	303	C20H33NO	1000407-15-8	10
2	3,5-Bis(trifluoromethyl)nitroben...	259	C8H3F6NO2	000328-75-6	10
3	Benzofuran, 7-(2,4-dinitrophenox...	388	C19H20N2O7	062059-48-7	9
4	Sebacic acid, 2,5-dichlorobenzyl...	388	C19H26Cl2O4	1000380-61-0	9
5	5.alpha.-Stigmast-9(11)-en-3.bet...	414	C29H50O	077794-81-1	7





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052325\
Data File : BF142530.D
Acq On : 23 May 2025 12:43
Operator : RC/JU
Sample : Q2100-04
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-45

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-...	5.122	9.2	ng	310514	1	6.898	678983	20.0
Benzophenone	10.651	7.5	ng	382499	3	9.933	1027410	20.0
n-Hexadecanoic ...	11.945	13.6	ng	699327	4	11.422	1029280	20.0
Octadecanoic acid	12.733	4.1	ng	209221	4	11.422	1029280	20.0
Hexacosane	12.886	3.0	ng	102443	5	14.063	671213	20.0
Heptacosane	13.586	3.0	ng	101199	5	14.063	671213	20.0
Heptadecyl trif...	13.904	7.3	ng	246533	5	14.063	671213	20.0
Tetratetracontane	14.163	2.2	ng	72744	5	14.063	671213	20.0
unknown16.827	16.827	3.5	ng	110663	6	15.557	631958	20.0

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052325\
Data File : BF142528.D
Acq On : 23 May 2025 11:41
Operator : RC/JU
Sample : PB168126BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB168126BL

Quant Time: May 23 12:05:51 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

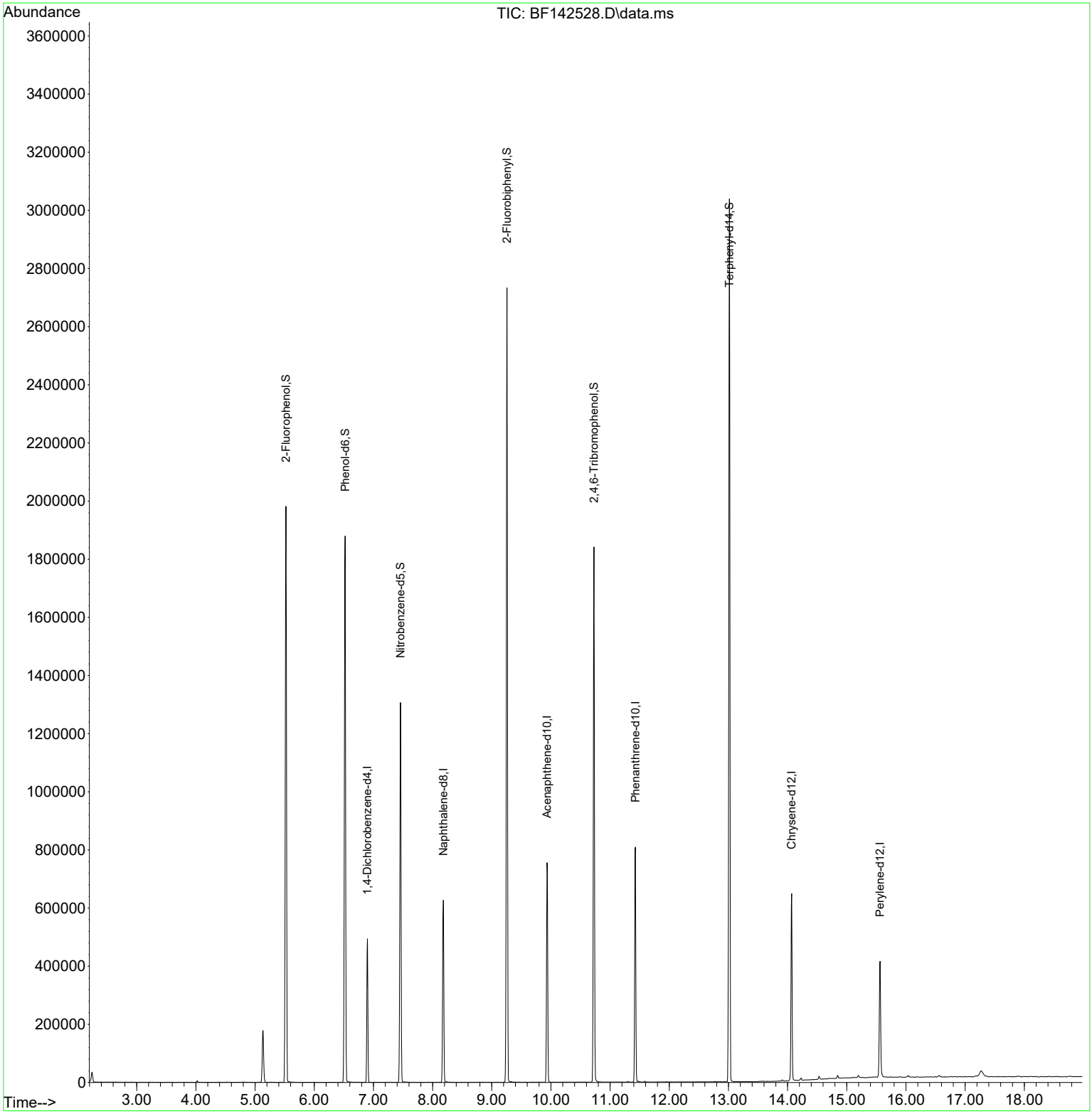
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.898	152	108646	20.000	ng	0.00
21) Naphthalene-d8	8.181	136	416736	20.000	ng	0.00
39) Acenaphthene-d10	9.933	164	234758	20.000	ng	-0.01
64) Phenanthrene-d10	11.428	188	439276	20.000	ng	0.00
76) Chrysene-d12	14.069	240	317833	20.000	ng	0.00
86) Perylene-d12	15.563	264	240419	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.522	112	794724	123.237	ng	0.00
7) Phenol-d6	6.522	99	955076	123.033	ng	-0.01
23) Nitrobenzene-d5	7.457	82	588896	77.055	ng	-0.02
42) 2,4,6-Tribromophenol	10.728	330	339357	130.246	ng	-0.01
45) 2-Fluorobiphenyl	9.257	172	1288490	73.649	ng	-0.01
79) Terphenyl-d14	13.016	244	1527119	65.660	ng	0.00
Target Compounds						Qvalue

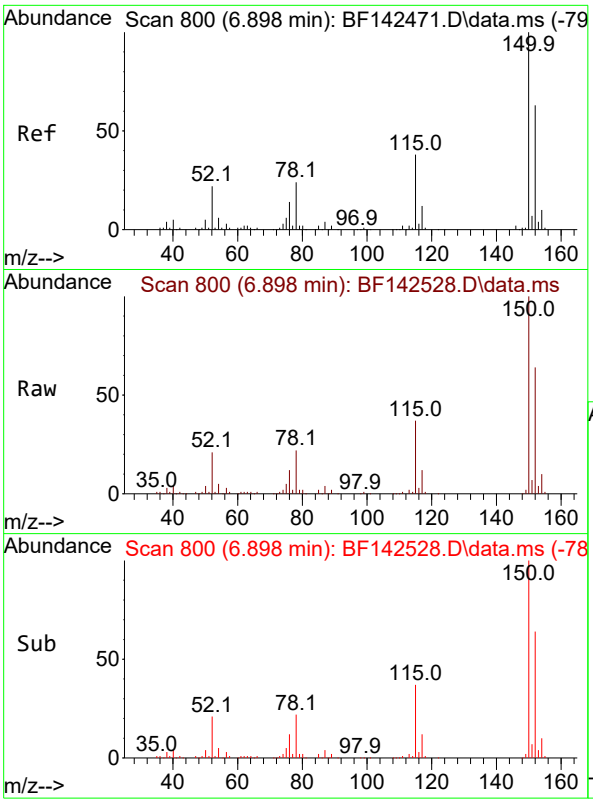
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052325\
Data File : BF142528.D
Acq On : 23 May 2025 11:41
Operator : RC/JU
Sample : PB168126BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB168126BL

Quant Time: May 23 12:05:51 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



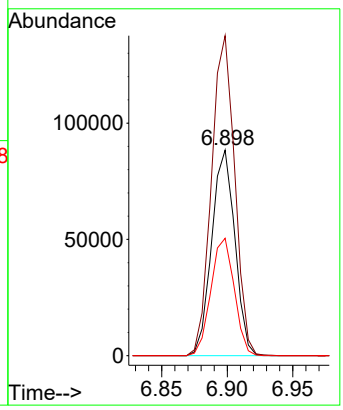


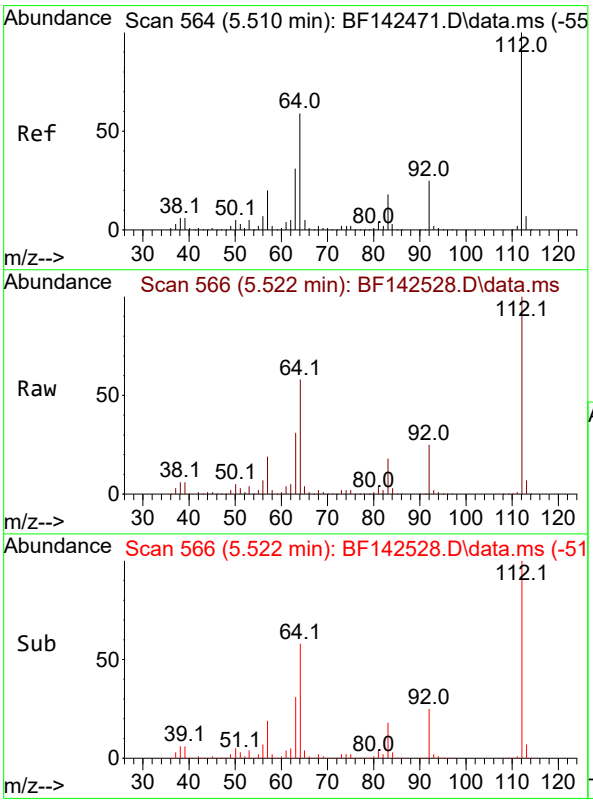
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.898 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF142528.D
Acq: 23 May 2025 11:41

Instrument :
BNA_F
ClientSampleId :
PB168126BL

Tgt Ion:152 Resp: 108646

Ion	Ratio	Lower	Upper
152	100		
150	155.6	128.2	192.4
115	57.1	48.3	72.5

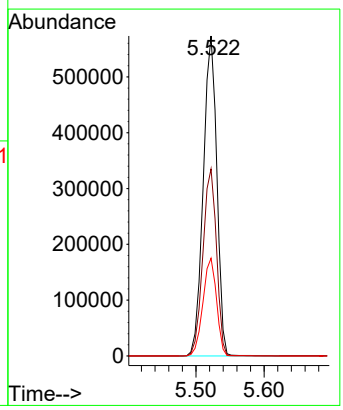


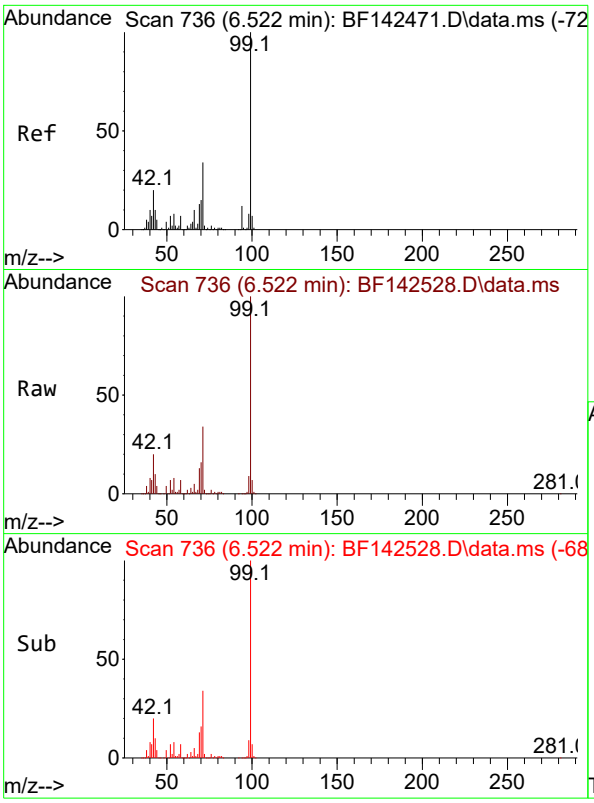


#5
2-Fluorophenol
Concen: 123.237 ng
RT: 5.522 min Scan# 566
Delta R.T. 0.006 min
Lab File: BF142528.D
Acq: 23 May 2025 11:41

Tgt Ion:112 Resp: 794724

Ion	Ratio	Lower	Upper
112	100		
64	58.5	47.5	71.3
63	30.5	24.9	37.3



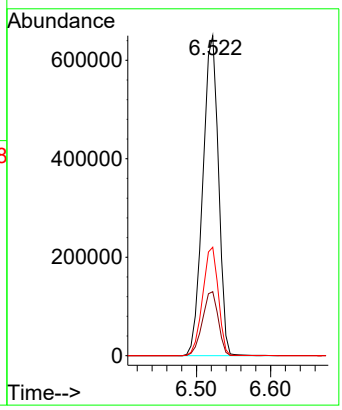


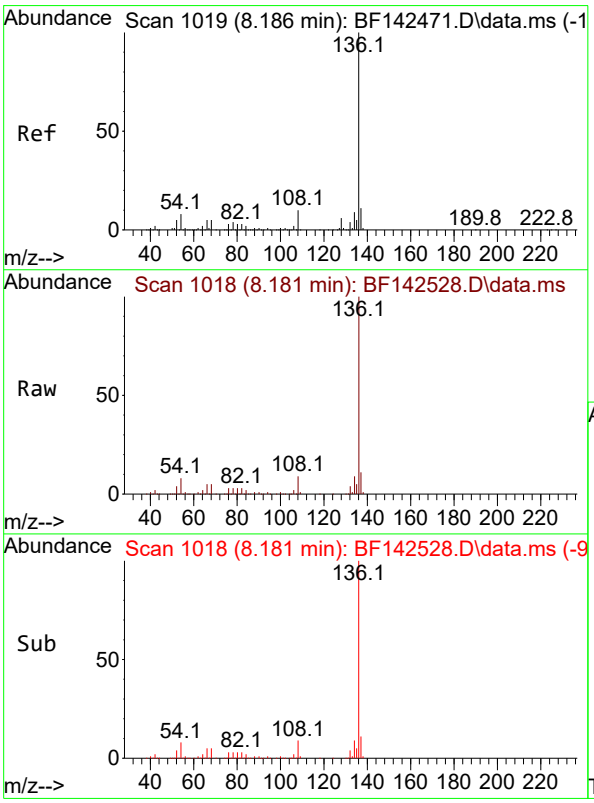
#7
Phenol-d6
Concen: 123.033 ng
RT: 6.522 min Scan# 7
Delta R.T. -0.012 min
Lab File: BF142528.D
Acq: 23 May 2025 11:41

Instrument :
BNA_F
ClientSampleId :
PB168126BL

Tgt Ion: 99 Resp: 955076

Ion	Ratio	Lower	Upper
99	100		
42	20.0	16.2	24.2
71	33.9	27.3	40.9

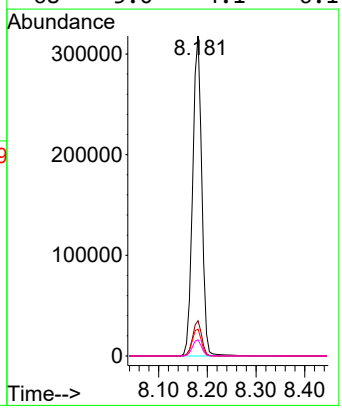


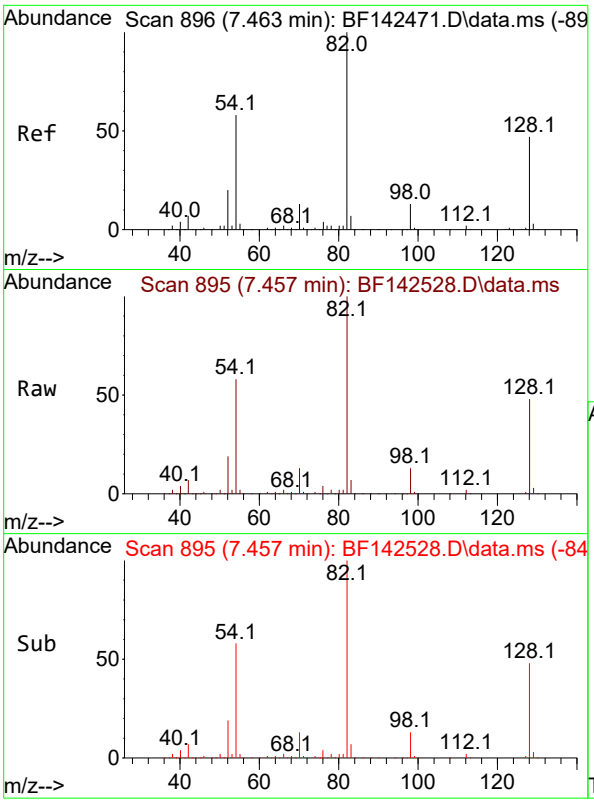


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.181 min Scan# 1018
Delta R.T. -0.006 min
Lab File: BF142528.D
Acq: 23 May 2025 11:41

Tgt Ion:136 Resp: 416736

Ion	Ratio	Lower	Upper
136	100		
137	11.0	8.6	13.0
54	8.4	6.6	10.0
68	5.0	4.1	6.1



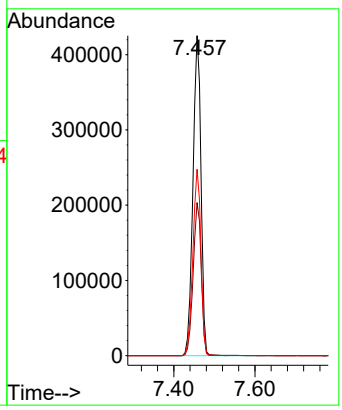


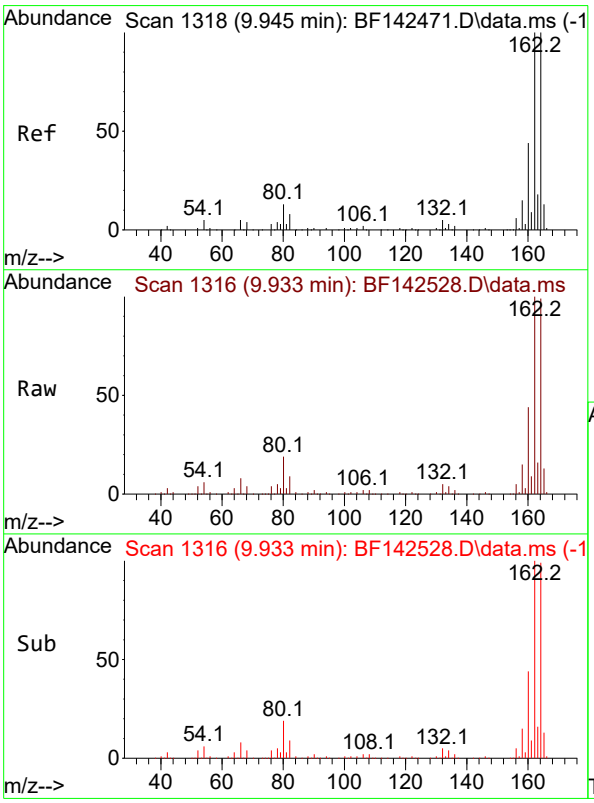
#23
Nitrobenzene-d5
Concen: 77.055 ng
RT: 7.457 min Scan# 8
Delta R.T. -0.017 min
Lab File: BF142528.D
Acq: 23 May 2025 11:41

Instrument :
BNA_F
ClientSampleId :
PB168126BL

Tgt Ion: 82 Resp: 588896

Ion	Ratio	Lower	Upper
82	100		
128	47.9	37.4	56.2
54	58.2	46.6	70.0

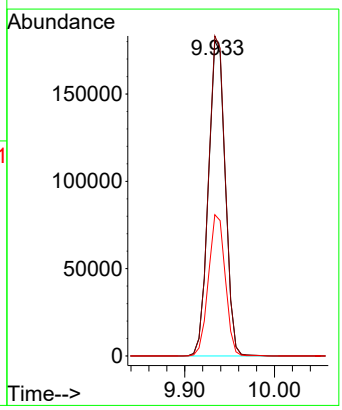


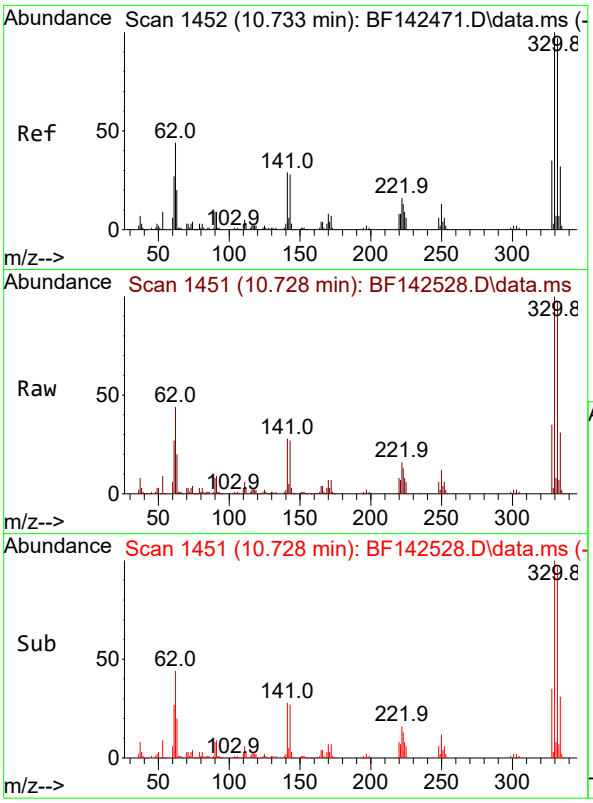


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.933 min Scan# 1316
Delta R.T. -0.012 min
Lab File: BF142528.D
Acq: 23 May 2025 11:41

Tgt Ion:164 Resp: 234758

Ion	Ratio	Lower	Upper
164	100		
162	101.5	80.2	120.4
160	44.8	35.6	53.4



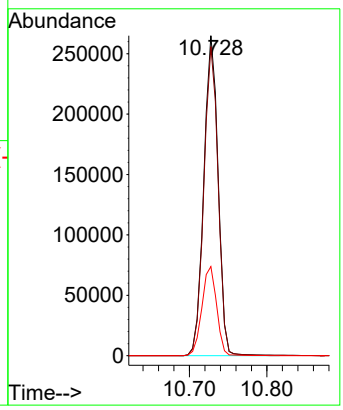


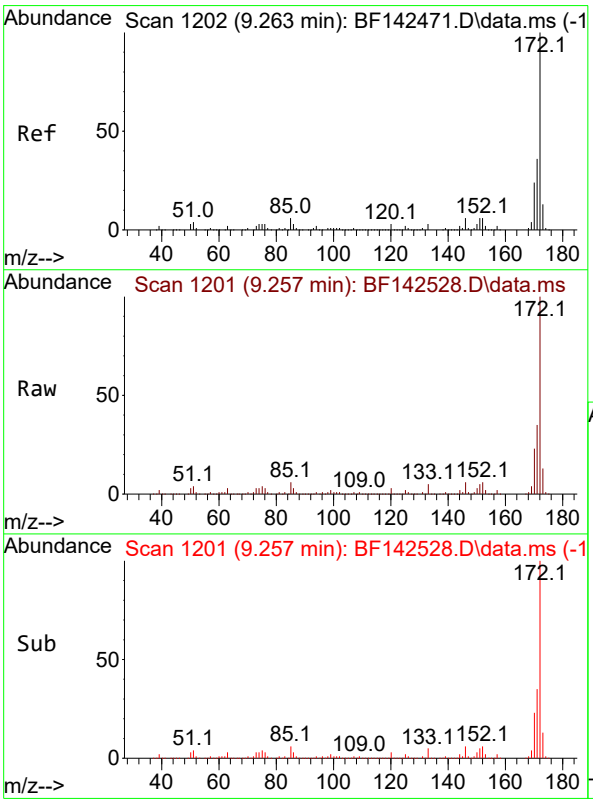
#42
2,4,6-Tribromophenol
Concen: 130.246 ng
RT: 10.728 min Scan# 14
Delta R.T. -0.012 min
Lab File: BF142528.D
Acq: 23 May 2025 11:41

Instrument :
BNA_F
ClientSampleId :
PB168126BL

Tgt Ion:330 Resp: 339357

Ion	Ratio	Lower	Upper
330	100		
332	96.4	77.6	116.4
141	28.7	24.6	36.8

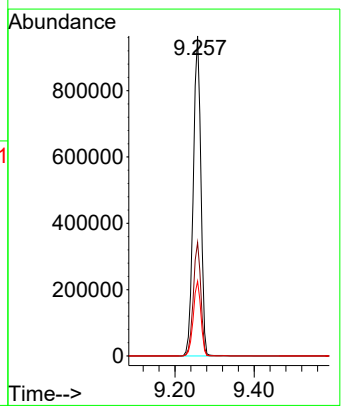


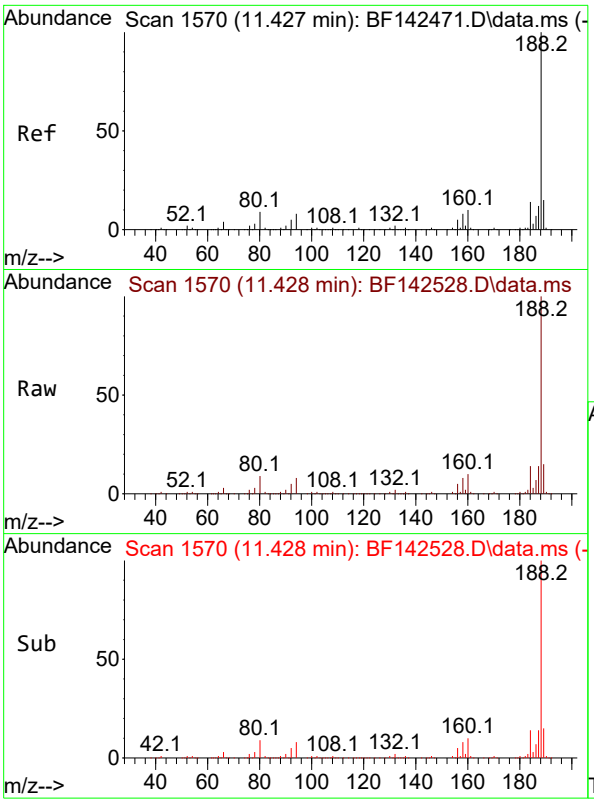


#45
2-Fluorobiphenyl
Concen: 73.649 ng
RT: 9.257 min Scan# 1201
Delta R.T. -0.012 min
Lab File: BF142528.D
Acq: 23 May 2025 11:41

Tgt Ion:172 Resp: 1288490

Ion	Ratio	Lower	Upper
172	100		
171	35.5	28.6	42.8
170	23.4	18.9	28.3



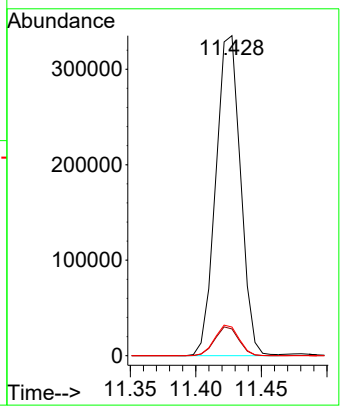


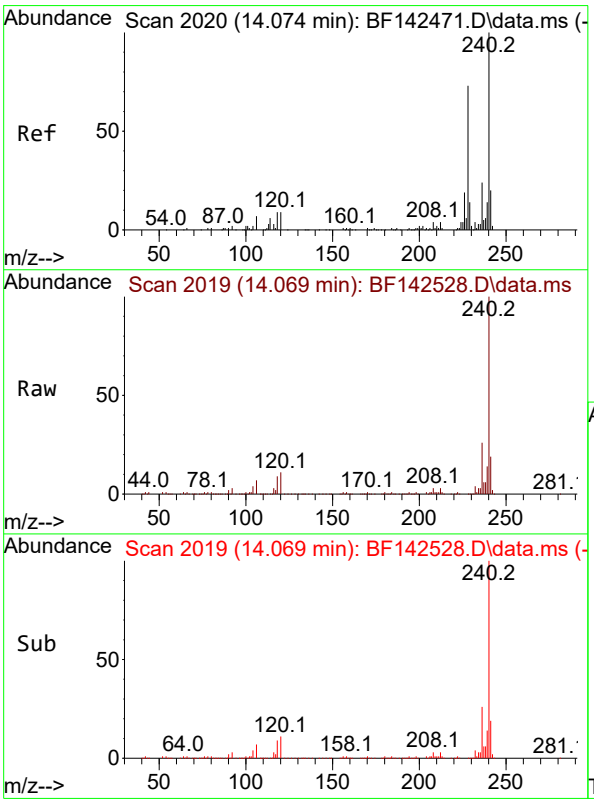
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.428 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF142528.D
Acq: 23 May 2025 11:41

Instrument :
BNA_F
ClientSampleId :
PB168126BL

Tgt Ion:188 Resp: 439276

Ion	Ratio	Lower	Upper
188	100		
94	8.3	6.6	10.0
80	8.9	7.4	11.0

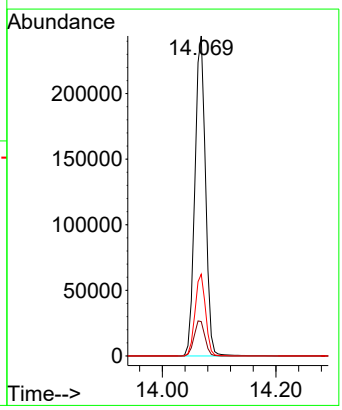


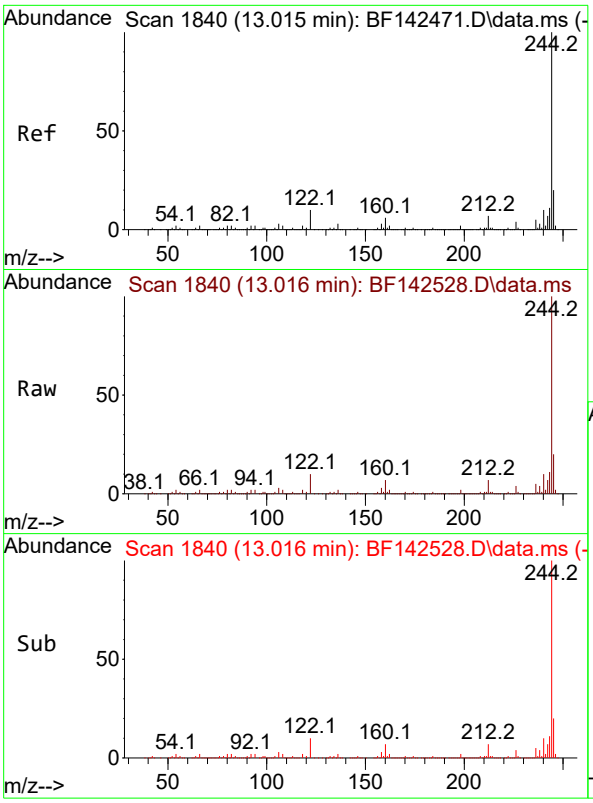


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.069 min Scan# 2019
Delta R.T. -0.006 min
Lab File: BF142528.D
Acq: 23 May 2025 11:41

Tgt Ion:240 Resp: 317833

Ion	Ratio	Lower	Upper
240	100		
120	10.8	7.5	11.3
236	25.6	19.6	29.4



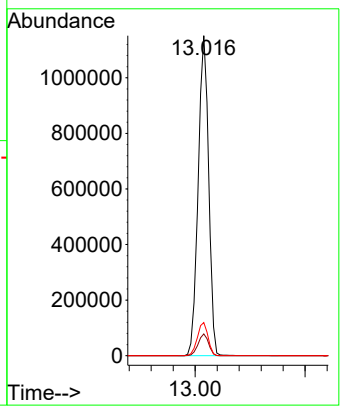


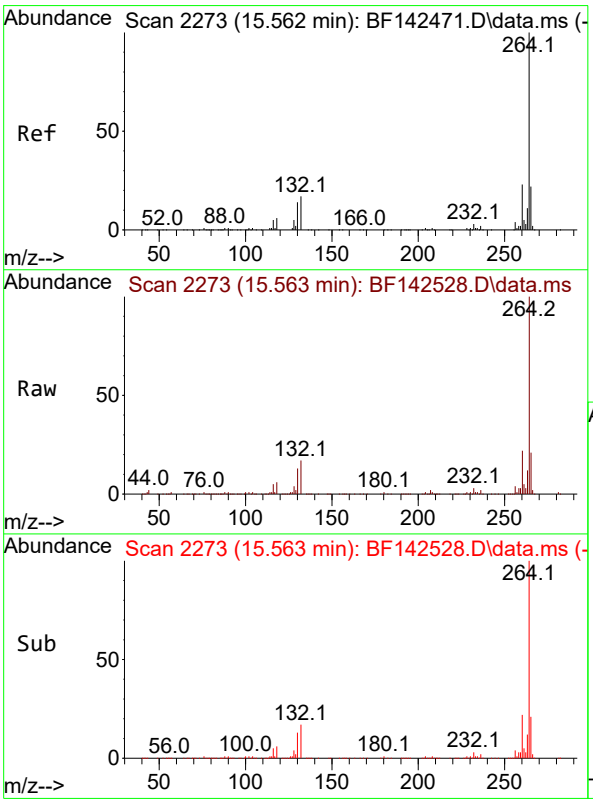
#79
Terphenyl-d14
Concen: 65.660 ng
RT: 13.016 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF142528.D
Acq: 23 May 2025 11:41

Instrument :
BNA_F
ClientSampleId :
PB168126BL

Tgt Ion:244 Resp: 1527119

Ion	Ratio	Lower	Upper
244	100		
212	6.8	5.3	7.9
122	10.4	8.2	12.2

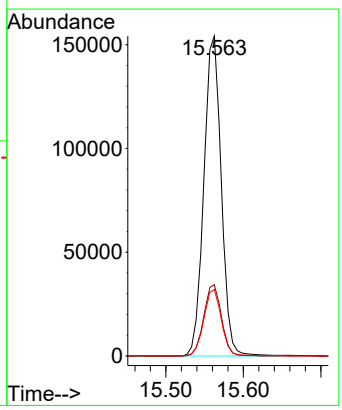




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.563 min Scan# 2273
Delta R.T. -0.006 min
Lab File: BF142528.D
Acq: 23 May 2025 11:41

Tgt Ion:264 Resp: 240419

Ion	Ratio	Lower	Upper
264	100		
260	22.3	18.6	28.0
265	20.8	17.7	26.5



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052325\
Data File : BF142528.D
Acq On : 23 May 2025 11:41
Operator : RC/JU
Sample : PB168126BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB168126BL

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: BF142528.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.246	3	9	15	rVB	33339	57703	1.43%	0.255%
2	5.134	494	500	509	rVB	177060	288871	7.18%	1.277%
3	5.522	559	566	571	rBV	1981514	2744552	68.22%	12.131%
4	6.522	729	736	741	rBV	1879489	2757777	68.54%	12.189%
5	6.898	795	800	805	rBV	493794	611449	15.20%	2.703%
6	7.457	888	895	900	rBV	1306680	1802470	44.80%	7.967%
7	8.181	1012	1018	1025	rBV	626505	815129	20.26%	3.603%
8	9.257	1194	1201	1206	rBV	2732957	3620208	89.98%	16.001%
9	9.933	1311	1316	1322	rBV	755112	969338	24.09%	4.284%
10	10.728	1445	1451	1456	rBV	1840980	2386330	59.31%	10.548%
11	11.428	1564	1570	1575	rBV	808526	1056562	26.26%	4.670%
12	13.016	1834	1840	1845	rBV	3037241	4023342	100.00%	17.783%
13	14.069	2010	2019	2028	rBV	644131	854057	21.23%	3.775%
14	15.563	2266	2273	2284	rBV	399073	636646	15.82%	2.814%

Sum of corrected areas: 22624434

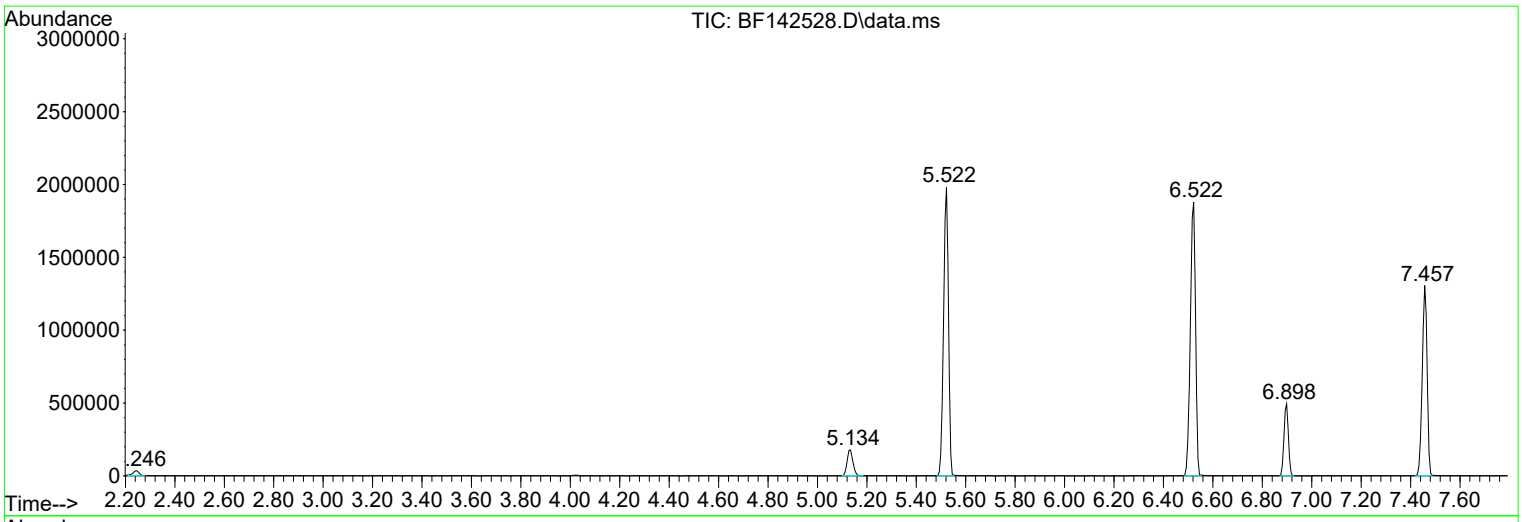
Sample Results: **BF142528.D**

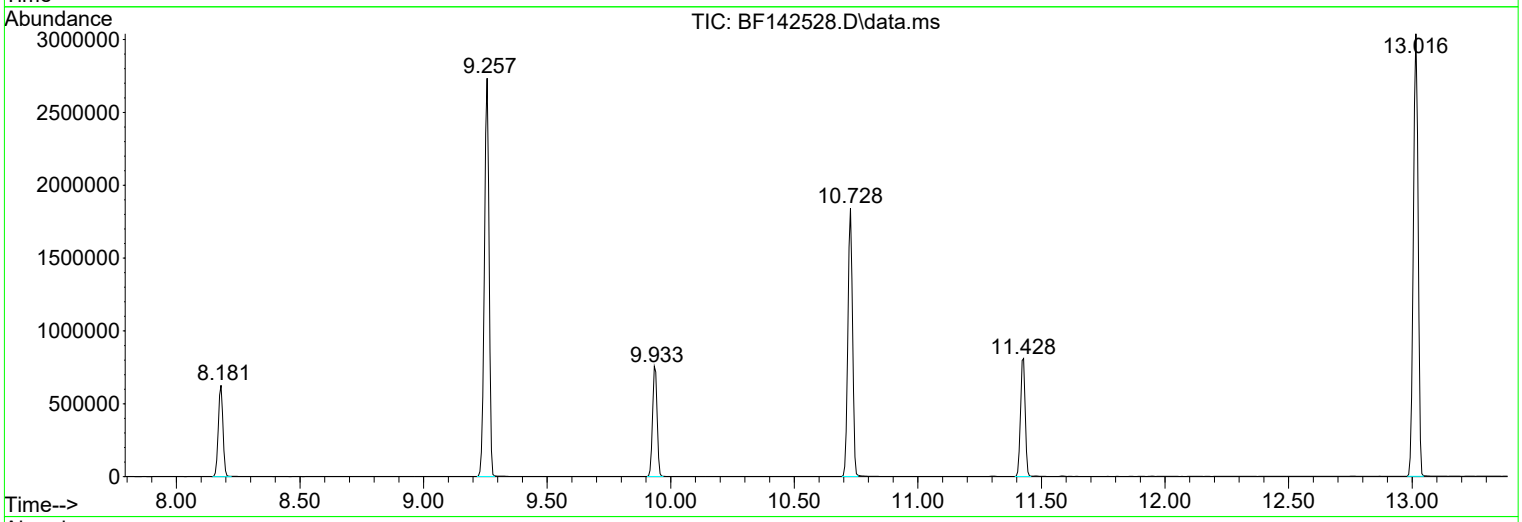
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052325\
Data File : BF142528.D
Acq On : 23 May 2025 11:41
Operator : RC/JU
Sample : PB168126BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

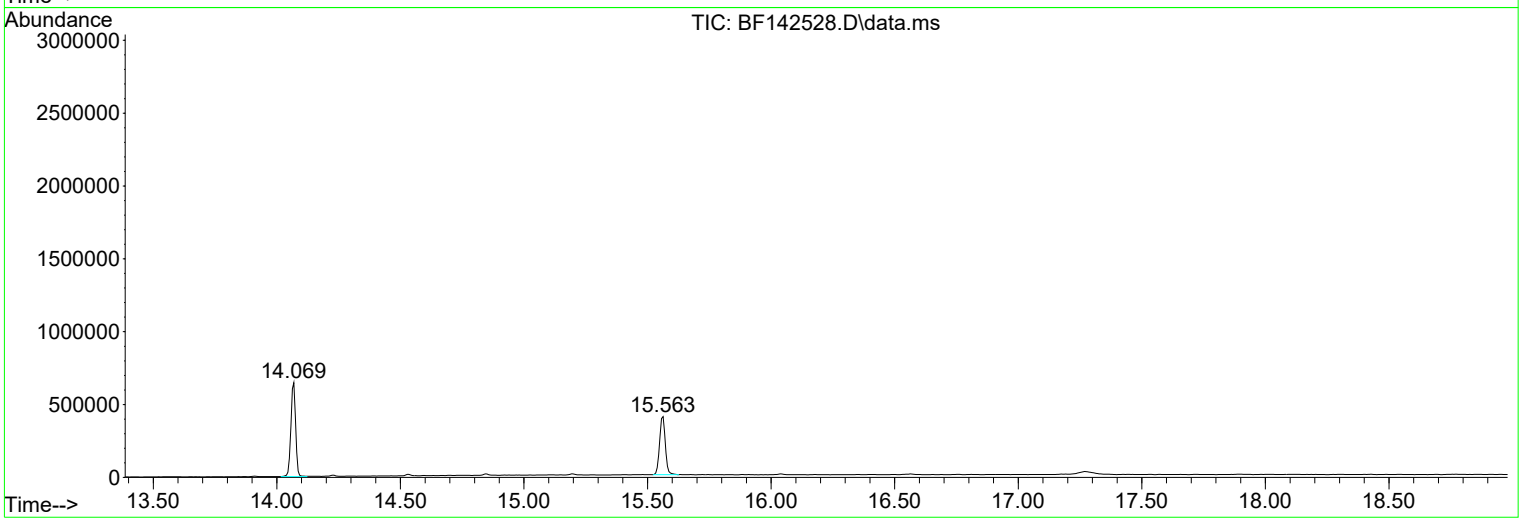
Instrument :
BNA_F
ClientSampleId :
PB168126BL

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\BF052325\
Data File : BF142528.D
Acq On : 23 May 2025 11:41
Operator : RC/JU
Sample : PB168126BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB168126BL

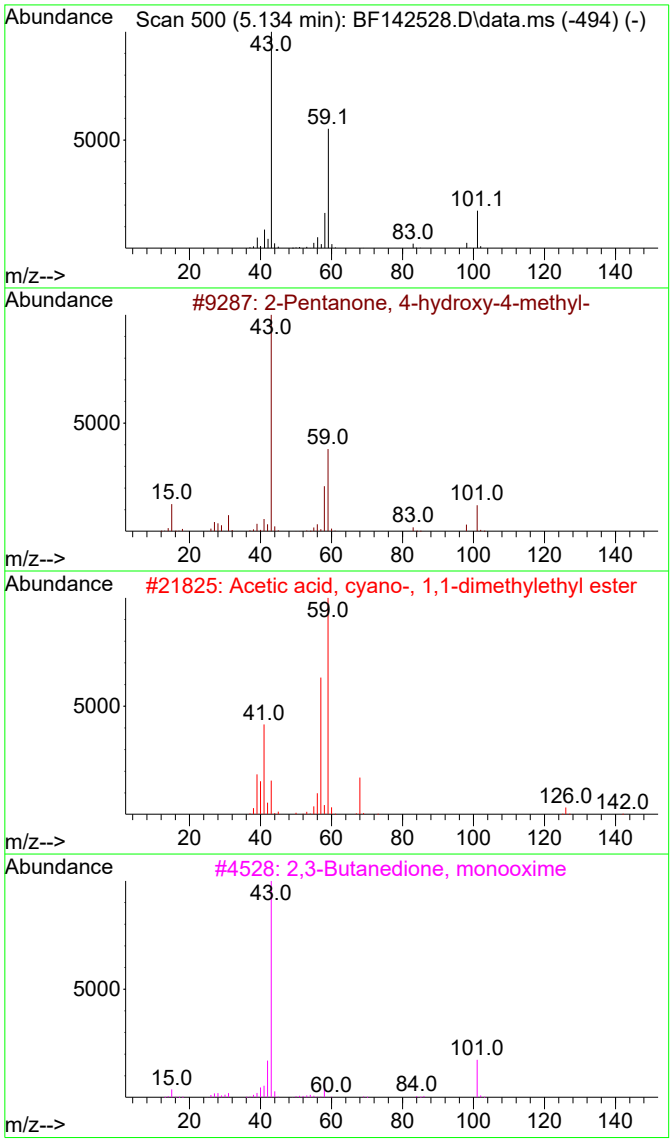
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

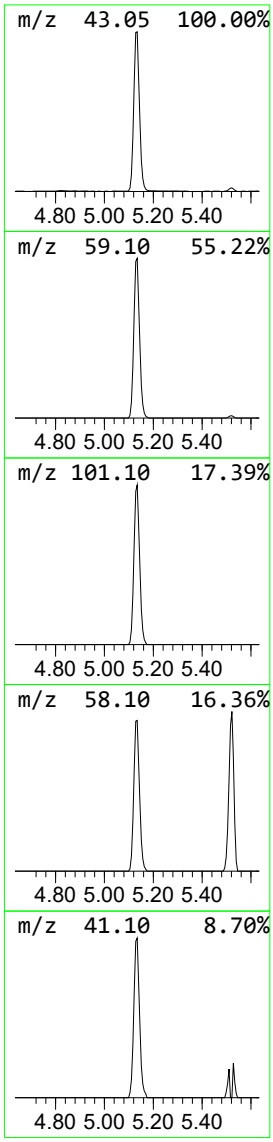
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 1 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.134	9.45 ng	288871	1,4-Dichlorobenzene-d4	6.898

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	32
3	2,3-Butanedione, monooxime	101	C4H7NO2	000057-71-6	16
4	1-Propen-2-ol, acetate	100	C5H8O2	000108-22-5	12
5	Ethanol, pentamethyl-	116	C7H16O	000594-83-2	9





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052325\
Data File : BF142528.D
Acq On : 23 May 2025 11:41
Operator : RC/JU
Sample : PB168126BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB168126BL

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-...	5.134	9.4	ng	288871	1	6.898	611449	20.0

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052325\
Data File : BF142529.D
Acq On : 23 May 2025 12:10
Operator : RC/JU
Sample : PB168126BS
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 23 12:54:42 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

Instrument :
BNA_F
ClientSampleId :
PB168126BS

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 05/27/2025
Supervised By :Jagrut Upadhyay 05/27/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.899	152	113674	20.000	ng	0.00
21) Naphthalene-d8	8.181	136	445507	20.000	ng	0.00
39) Acenaphthene-d10	9.939	164	254111	20.000	ng	0.00
64) Phenanthrene-d10	11.428	188	449715	20.000	ng	0.00
76) Chrysene-d12	14.075	240	246622	20.000	ng	0.00
86) Perylene-d12	15.563	264	234935	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.522	112	807956	119.747	ng	0.00
7) Phenol-d6	6.528	99	994584	122.455	ng	0.00
23) Nitrobenzene-d5	7.463	82	606849	74.277	ng	-0.01
42) 2,4,6-Tribromophenol	10.734	330	349569	123.947	ng	0.00
45) 2-Fluorobiphenyl	9.257	172	1324753	69.955	ng	-0.01
79) Terphenyl-d14	13.016	244	1342706	74.400	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.763	88	98572	36.509	ng	98
3) Pyridine	3.516	79	276280	40.183	ng	100
4) n-Nitrosodimethylamine	3.475	42	157783	44.198	ng	97
6) Aniline	6.563	93	351274	32.166	ng	99
8) 2-Chlorophenol	6.681	128	325414	44.279	ng	98
9) Benzaldehyde	6.446	77	187401	38.362	ng	97
10) Phenol	6.540	94	397040	43.445	ng	98
11) bis(2-Chloroethyl)ether	6.634	93	290734	44.194	ng	99
12) 1,3-Dichlorobenzene	6.840	146	345180	42.092	ng	99
13) 1,4-Dichlorobenzene	6.916	146	347061	42.014	ng	99
14) 1,2-Dichlorobenzene	7.069	146	335938	42.501	ng	99
15) Benzyl Alcohol	7.040	79	268466	44.728	ng	98
16) 2,2'-oxybis(1-Chloropr...	7.169	45	477728	43.242	ng	99
17) 2-Methylphenol	7.146	107	257655	44.905	ng	100
18) Hexachloroethane	7.410	117	121175	42.010	ng	98
19) n-Nitroso-di-n-propyla...	7.310	70	215732	42.858	ng	99
20) 3+4-Methylphenols	7.298	107	324110	44.110	ng	91
22) Acetophenone	7.304	105	422592	42.850	ng	95
24) Nitrobenzene	7.481	77	318115	43.171	ng	99
25) Isophorone	7.722	82	594145	43.496	ng	99
26) 2-Nitrophenol	7.798	139	175363	44.538	ng	97
27) 2,4-Dimethylphenol	7.834	122	310773	44.757	ng	99
28) bis(2-Chloroethoxy)met...	7.928	93	365524	42.836	ng	100
29) 2,4-Dichlorophenol	8.040	162	285033	45.139	ng	98
30) 1,2,4-Trichlorobenzene	8.122	180	291232	42.496	ng	98
31) Naphthalene	8.204	128	935463	42.644	ng	100
32) Benzoic acid	7.951	122	207650	49.128	ng	99
33) 4-Chloroaniline	8.251	127	118056	13.281	ng	97
34) Hexachlorobutadiene	8.322	225	178500	41.715	ng	100
35) Caprolactam	8.622	113	91196m	51.421	ng	
36) 4-Chloro-3-methylphenol	8.734	107	294851	45.562	ng	97
37) 2-Methylnaphthalene	8.893	142	592585	42.939	ng	99
38) 1-Methylnaphthalene	8.992	142	613178	42.954	ng	100
40) 1,2,4,5-Tetrachloroben...	9.063	216	296126	40.596	ng	99
41) Hexachlorocyclopentadiene	9.051	237	414238	84.182	ng	99
43) 2,4,6-Trichlorophenol	9.175	196	213449	43.395	ng	98

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052325\
Data File : BF142529.D
Acq On : 23 May 2025 12:10
Operator : RC/JU
Sample : PB168126BS
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 23 12:54:42 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

Instrument :
BNA_F
ClientSampleId :
PB168126BS

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 05/27/2025
Supervised By :Jagrut Upadhyay 05/27/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.210	196	225202	43.412	ng	100
46) 1,1'-Biphenyl	9.363	154	813284	41.253	ng	100
47) 2-Chloronaphthalene	9.387	162	605089	41.542	ng	99
48) 2-Nitroaniline	9.481	65	186547	44.309	ng	98
49) Acenaphthylene	9.804	152	1027896	41.792	ng	100
50) Dimethylphthalate	9.663	163	739280	44.091	ng	99
51) 2,6-Dinitrotoluene	9.722	165	162823	44.993	ng	99
52) Acenaphthene	9.975	154	699992	46.609	ng	100
53) 3-Nitroaniline	9.892	138	95066	24.051	ng	97
54) 2,4-Dinitrophenol	9.998	184	201816	107.944	ng	92
55) Dibenzofuran	10.145	168	913241	42.256	ng	99
56) 4-Nitrophenol	10.051	139	288345	98.868	ng	98
57) 2,4-Dinitrotoluene	10.128	165	226154	47.852	ng	98
58) Fluorene	10.492	166	706574	42.319	ng	98
59) 2,3,4,6-Tetrachlorophenol	10.263	232	197220	45.540	ng	99
60) Diethylphthalate	10.363	149	728922	44.513	ng	100
61) 4-Chlorophenyl-phenyle...	10.481	204	344381	41.988	ng	99
62) 4-Nitroaniline	10.510	138	174767	48.752	ng	98
63) Azobenzene	10.639	77	642956	43.714	ng	98
65) 4,6-Dinitro-2-methylph...	10.539	198	122904	48.971	ng	97
66) n-Nitrosodiphenylamine	10.598	169	632663	41.120	ng	99
67) 4-Bromophenyl-phenylether	10.975	248	219727	41.321	ng	97
68) Hexachlorobenzene	11.039	284	246901	41.980	ng	98
69) Atrazine	11.128	200	197434	48.319	ng	100
70) Pentachlorophenol	11.234	266	298833	89.996	ng	99
71) Phenanthrene	11.457	178	1013925	42.188	ng	100
72) Anthracene	11.504	178	1035513	42.217	ng	100
73) Carbazole	11.657	167	945018	45.067	ng	99
74) Di-n-butylphthalate	11.986	149	1089295	47.458	ng	99
75) Fluoranthene	12.645	202	1023203	45.563	ng	100
77) Benzidine	12.763	184	396998	43.258	ng	100
78) Pyrene	12.875	202	1016690	44.192	ng	100
80) Butylbenzylphthalate	13.486	149	332970	52.378	ng	100
81) Benzo(a)anthracene	14.063	228	746333	45.319	ng	99
82) 3,3'-Dichlorobenzidine	14.022	252	103235	20.668	ng	99
83) Chrysene	14.098	228	649255	43.875	ng	99
84) Bis(2-ethylhexyl)phtha...	14.045	149	393421	48.344	ng	99
85) Di-n-octyl phthalate	14.663	149	634752	39.891	ng	99
87) Indeno(1,2,3-cd)pyrene	17.080	276	759914	43.085	ng	99
88) Benzo(b)fluoranthene	15.121	252	645631	46.433	ng	98
89) Benzo(k)fluoranthene	15.157	252	584292	44.866	ng	99
90) Benzo(a)pyrene	15.504	252	598750	45.684	ng	99
91) Dibenzo(a,h)anthracene	17.098	278	616642	43.107	ng	100
92) Benzo(g,h,i)perylene	17.539	276	618556	43.232	ng	99

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

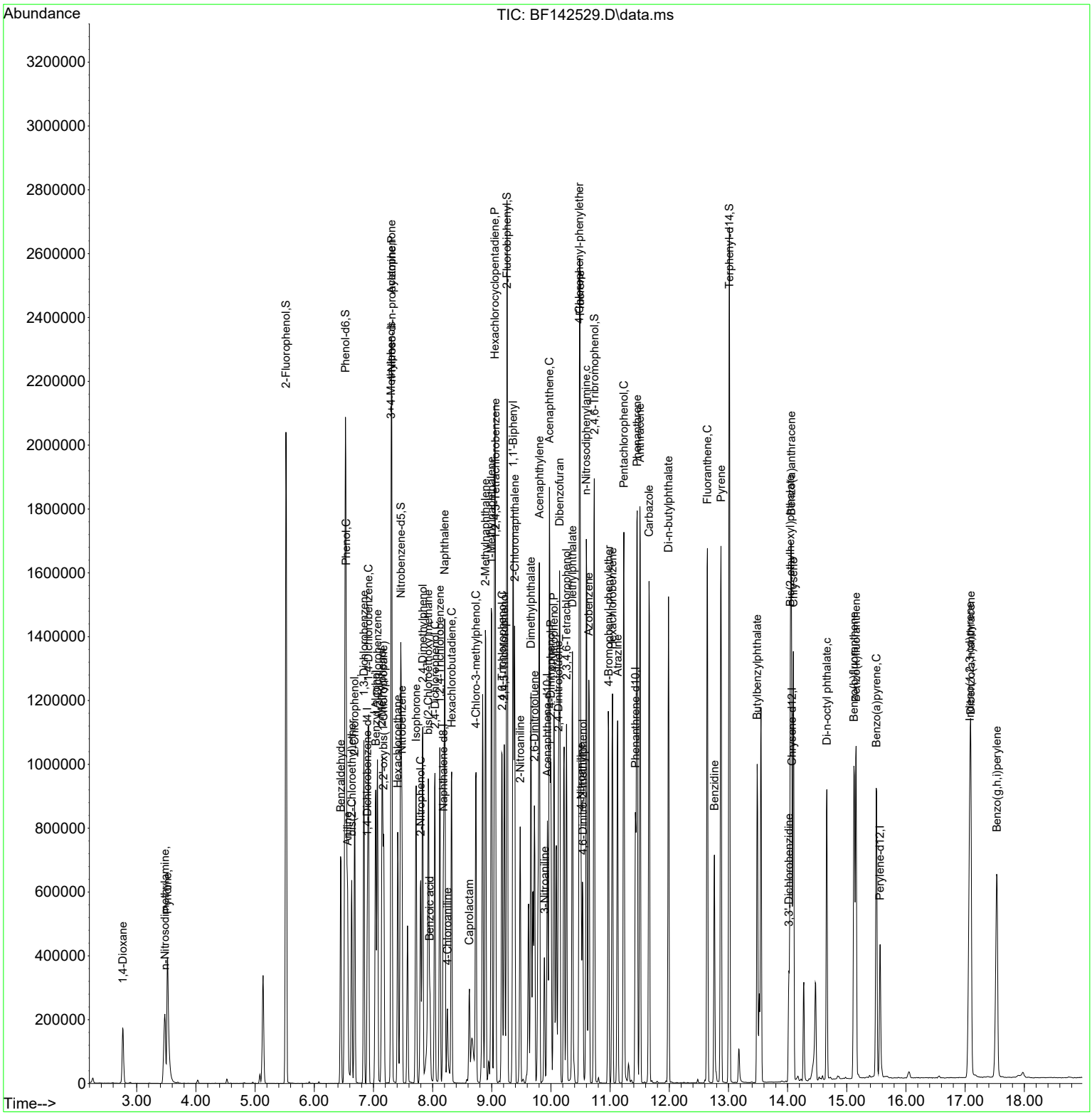
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052325\
Data File : BF142529.D
Acq On : 23 May 2025 12:10
Operator : RC/JU
Sample : PB168126BS
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 23 12:54:42 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

Instrument :
BNA_F
ClientSampleId :
PB168126BS

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 05/27/2025
Supervised By :Jagrut Upadhyay 05/27/2025



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052325\
Data File : BF142531.D
Acq On : 23 May 2025 13:12
Operator : RC/JU
Sample : Q2100-04MS
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 23 13:39:55 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

Instrument :
BNA_F
ClientSampleId :
TP-45MS

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 05/27/2025
Supervised By :Jagrut Upadhyay 05/27/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.898	152	126551	20.000	ng		0.00
21) Naphthalene-d8	8.181	136	479831	20.000	ng		0.00
39) Acenaphthene-d10	9.939	164	253217	20.000	ng		0.00
64) Phenanthrene-d10	11.428	188	418845	20.000	ng		0.00
76) Chrysene-d12	14.069	240	224873	20.000	ng		0.00
86) Perylene-d12	15.563	264	247916	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.516	112	704635	93.807	ng		0.00
7) Phenol-d6	6.522	99	887022	98.099	ng		-0.01
23) Nitrobenzene-d5	7.463	82	529950	60.224	ng		-0.01
42) 2,4,6-Tribromophenol	10.733	330	286579	101.971	ng		0.00
45) 2-Fluorobiphenyl	9.257	172	1081815	57.328	ng		-0.01
79) Terphenyl-d14	13.010	244	928535	56.427	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.734	88	103216	34.339	ng		99
3) Pyridine	3.493	79	284645	37.187	ng		100
4) n-Nitrosodimethylamine	3.446	42	165626	41.674	ng		96
6) Aniline	6.563	93	410799	33.789	ng		100
8) 2-Chlorophenol	6.681	128	344650	42.125	ng		98
9) Benzaldehyde	6.445	77	206235	37.921	ng		98
10) Phenol	6.540	94	421804	41.458	ng		99
11) bis(2-Chloroethyl)ether	6.634	93	303451	41.433	ng		100
12) 1,3-Dichlorobenzene	6.840	146	369527	40.476	ng		99
13) 1,4-Dichlorobenzene	6.916	146	371139	40.357	ng		99
14) 1,2-Dichlorobenzene	7.069	146	359344	40.836	ng		99
15) Benzyl Alcohol	7.040	79	281673	42.153	ng		98
16) 2,2'-oxybis(1-Chloropr...	7.169	45	506866	41.211	ng		99
17) 2-Methylphenol	7.145	107	266587	41.734	ng		99
18) Hexachloroethane	7.410	117	130566	40.660	ng		99
19) n-Nitroso-di-n-propyla...	7.310	70	226470	40.413	ng		100
20) 3+4-Methylphenols	7.298	107	328561	40.166	ng	#	90
22) Acetophenone	7.310	105	442818	41.689	ng		99
24) Nitrobenzene	7.481	77	338446	42.645	ng		98
25) Isophorone	7.722	82	607573	41.297	ng		98
26) 2-Nitrophenol	7.798	139	185622	43.771	ng		98
27) 2,4-Dimethylphenol	7.834	122	318621	42.605	ng		99
28) bis(2-Chloroethoxy)met...	7.928	93	379961	41.343	ng		100
29) 2,4-Dichlorophenol	8.039	162	286157	42.075	ng		98
30) 1,2,4-Trichlorobenzene	8.122	180	307585	41.672	ng		98
31) Naphthalene	8.204	128	976314	41.323	ng		100
32) Benzoic acid	7.951	122	220667	48.473	ng		97
33) 4-Chloroaniline	8.251	127	156215	16.317	ng		97
34) Hexachlorobutadiene	8.322	225	189081	41.027	ng		99
35) Caprolactam	8.622	113	89321m	46.761	ng		
36) 4-Chloro-3-methylphenol	8.728	107	292388	41.949	ng		99
37) 2-Methylnaphthalene	8.892	142	600475	40.398	ng		100
38) 1-Methylnaphthalene	8.992	142	621886	40.448	ng		100
40) 1,2,4,5-Tetrachloroben...	9.063	216	307313	42.278	ng		99
41) Hexachlorocyclopentadiene	9.051	237	407295	83.063	ng		100
43) 2,4,6-Trichlorophenol	9.169	196	214558	43.774	ng		97

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052325\
Data File : BF142531.D
Acq On : 23 May 2025 13:12
Operator : RC/JU
Sample : Q2100-04MS
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 23 13:39:55 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

Instrument :
BNA_F
ClientSampleId :
TP-45MS

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 05/27/2025
Supervised By :Jagrut Upadhyay 05/27/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.210	196	215965	41.778	ng	99
46) 1,1'-Biphenyl	9.357	154	822660	41.876	ng	100
47) 2-Chloronaphthalene	9.386	162	604422	41.643	ng	98
48) 2-Nitroaniline	9.481	65	178733	42.603	ng	98
49) Acenaphthylene	9.804	152	1017688	41.523	ng	100
50) Dimethylphthalate	9.663	163	708873	42.427	ng	100
51) 2,6-Dinitrotoluene	9.722	165	155634	43.158	ng	99
52) Acenaphthene	9.975	154	684906	45.765	ng	100
53) 3-Nitroaniline	9.886	138	98207	24.934	ng	100
54) 2,4-Dinitrophenol	9.998	184	189583	101.759	ng	93
55) Dibenzofuran	10.145	168	887997	41.233	ng	99
56) 4-Nitrophenol	10.051	139	258869	89.074	ng	99
57) 2,4-Dinitrotoluene	10.128	165	207938	44.153	ng	99
58) Fluorene	10.486	166	684012	41.113	ng	100
59) 2,3,4,6-Tetrachlorophenol	10.263	232	185384	42.958	ng	100
60) Diethylphthalate	10.363	149	686074	42.044	ng	100
61) 4-Chlorophenyl-phenyle...	10.480	204	331634	40.576	ng	98
62) 4-Nitroaniline	10.504	138	156171	43.718	ng	98
63) Azobenzene	10.639	77	677666	46.237	ng	99
65) 4,6-Dinitro-2-methylph...	10.533	198	115375	49.359	ng	100
66) n-Nitrosodiphenylamine	10.598	169	597917	41.726	ng	99
67) 4-Bromophenyl-phenylether	10.969	248	203700	41.130	ng	98
68) Hexachlorobenzene	11.039	284	234968	42.896	ng	97
69) Atrazine	11.128	200	180822	47.516	ng	100
70) Pentachlorophenol	11.228	266	273634	88.481	ng	99
71) Phenanthrene	11.451	178	926575	41.395	ng	99
72) Anthracene	11.504	178	957466	41.912	ng	99
73) Carbazole	11.657	167	833473	42.677	ng	100
74) Di-n-butylphthalate	11.986	149	983355	46.001	ng	100
75) Fluoranthene	12.639	202	893614	42.725	ng	98
77) Benzidine	12.763	184	377825	45.150	ng	99
78) Pyrene	12.869	202	881393	42.016	ng	100
80) Butylbenzylphthalate	13.486	149	300779	51.890	ng	99
81) Benzo(a)anthracene	14.057	228	635634	42.330	ng	98
82) 3,3'-Dichlorobenzidine	14.021	252	136420	29.953	ng	99
83) Chrysene	14.098	228	602154	44.628	ng	99
84) Bis(2-ethylhexyl)phtha...	14.045	149	383963	51.745	ng	99
85) Di-n-octyl phthalate	14.657	149	618171	42.606	ng	100
87) Indeno(1,2,3-cd)pyrene	17.074	276	799361	42.949	ng	99
88) Benzo(b)fluoranthene	15.121	252	683971	46.615	ng	98
89) Benzo(k)fluoranthene	15.151	252	541354	39.392	ng	98
90) Benzo(a)pyrene	15.498	252	610255	44.124	ng	99
91) Dibenzo(a,h)anthracene	17.092	278	644627	42.704	ng	99
92) Benzo(g,h,i)perylene	17.533	276	650002	43.051	ng	98

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

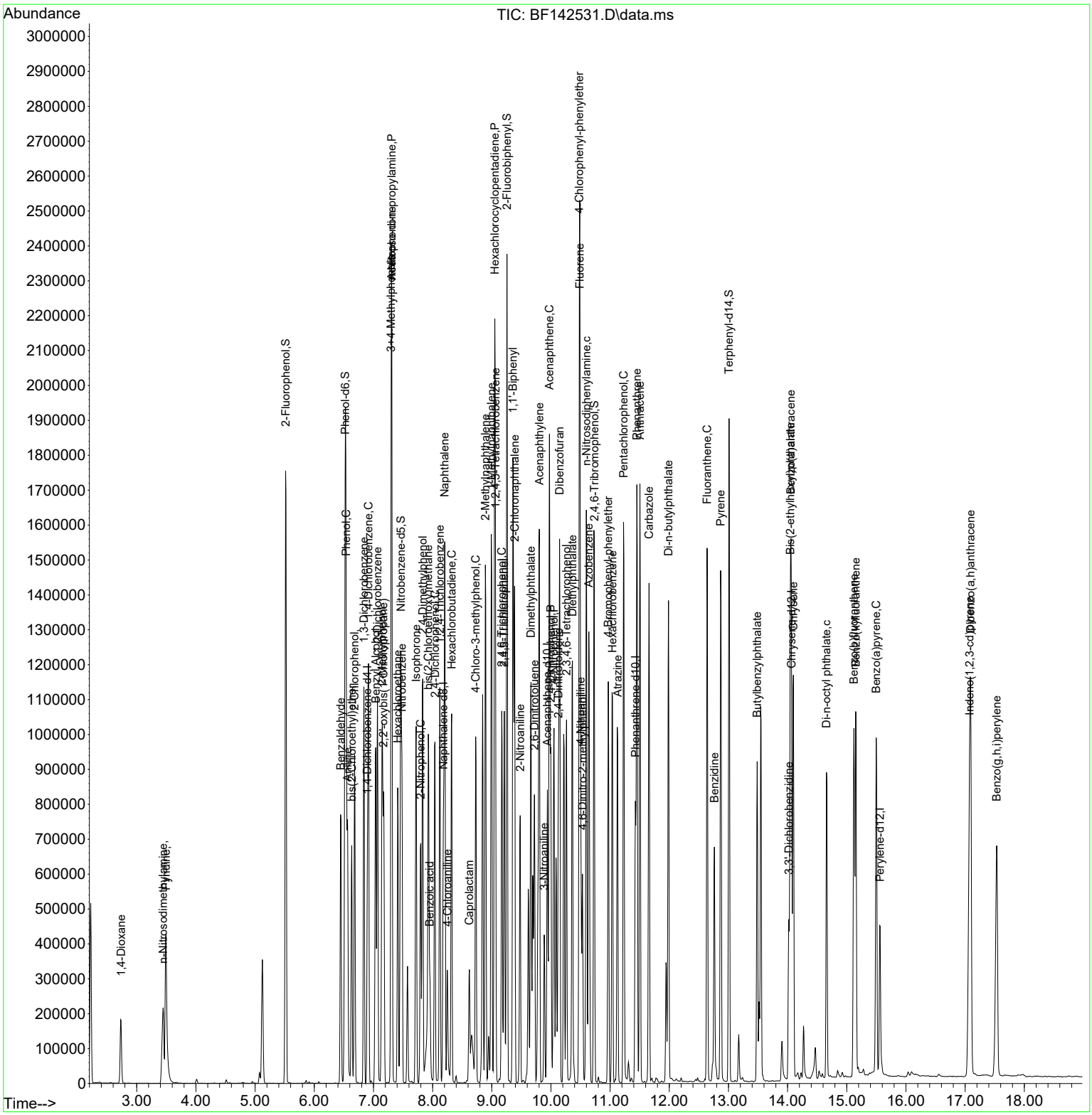
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052325\
Data File : BF142531.D
Acq On : 23 May 2025 13:12
Operator : RC/JU
Sample : Q2100-04MS
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 23 13:39:55 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

Instrument :
BNA_F
ClientSampleId :
TP-45MS

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 05/27/2025
Supervised By :Jagrut Upadhyay 05/27/2025



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052325\
Data File : BF142532.D
Acq On : 23 May 2025 13:41
Operator : RC/JU
Sample : Q2100-04MSD
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 23 14:03:57 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

Instrument :
BNA_F
ClientSampleId :
TP-45MSD

Manual Integrations APPROVED
Reviewed By :Rahul Chavli 05/27/2025
Supervised By :Jagrut Upadhyay 05/27/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.898	152	123385	20.000	ng	0.00
21) Naphthalene-d8	8.181	136	475116	20.000	ng	0.00
39) Acenaphthene-d10	9.939	164	248986	20.000	ng	0.00
64) Phenanthrene-d10	11.428	188	400587	20.000	ng	0.00
76) Chrysene-d12	14.069	240	218790	20.000	ng	0.00
86) Perylene-d12	15.563	264	251763	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.516	112	708116	96.689	ng	0.00
7) Phenol-d6	6.528	99	886372	100.543	ng	0.00
23) Nitrobenzene-d5	7.463	82	530308	60.863	ng	-0.01
42) 2,4,6-Tribromophenol	10.733	330	284392	102.913	ng	0.00
45) 2-Fluorobiphenyl	9.257	172	1082706	58.350	ng	-0.01
79) Terphenyl-d14	13.010	244	893011	55.777	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.728	88	102756	35.063	ng	100
3) Pyridine	3.487	79	287109	38.471	ng	99
4) n-Nitrosodimethylamine	3.446	42	167586	43.249	ng	95
6) Aniline	6.563	93	419201	35.364	ng	99
8) 2-Chlorophenol	6.681	128	342990	42.997	ng	99
9) Benzaldehyde	6.445	77	205139	38.688	ng	98
10) Phenol	6.540	94	421422	42.483	ng	99
11) bis(2-Chloroethyl)ether	6.634	93	307573	43.074	ng	99
12) 1,3-Dichlorobenzene	6.840	146	365246	41.034	ng	99
13) 1,4-Dichlorobenzene	6.916	146	371141	41.393	ng	99
14) 1,2-Dichlorobenzene	7.069	146	359213	41.869	ng	98
15) Benzyl Alcohol	7.040	79	278685	42.776	ng	98
16) 2,2'-oxybis(1-Chloropr...	7.169	45	510625	42.582	ng	99
17) 2-Methylphenol	7.145	107	266603	42.807	ng	99
18) Hexachloroethane	7.410	117	131150	41.890	ng	98
19) n-Nitroso-di-n-propyla...	7.310	70	224239	41.042	ng	100
20) 3+4-Methylphenols	7.298	107	327995	41.125	ng	92
22) Acetophenone	7.304	105	441349	41.963	ng	95
24) Nitrobenzene	7.481	77	333991	42.501	ng	99
25) Isophorone	7.722	82	608440	41.766	ng	98
26) 2-Nitrophenol	7.798	139	187195	44.580	ng	96
27) 2,4-Dimethylphenol	7.834	122	316993	42.808	ng	100
28) bis(2-Chloroethoxy)met...	7.928	93	381200	41.889	ng	99
29) 2,4-Dichlorophenol	8.039	162	287241	42.653	ng	99
30) 1,2,4-Trichlorobenzene	8.122	180	305557	41.808	ng	99
31) Naphthalene	8.204	128	983702	42.049	ng	100
32) Benzoic acid	7.951	122	220689	48.959	ng	97
33) 4-Chloroaniline	8.251	127	161439	17.030	ng	97
34) Hexachlorobutadiene	8.322	225	188941	41.403	ng	98
35) Caprolactam	8.622	113	88842m	46.972	ng	
36) 4-Chloro-3-methylphenol	8.728	107	293420	42.515	ng	100
37) 2-Methylnaphthalene	8.892	142	597956	40.628	ng	99
38) 1-Methylnaphthalene	8.992	142	629327	41.338	ng	100
40) 1,2,4,5-Tetrachloroben...	9.063	216	306573	42.893	ng	99
41) Hexachlorocyclopentadiene	9.051	237	411222	85.289	ng	100
43) 2,4,6-Trichlorophenol	9.169	196	212894	44.173	ng	99

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052325\
Data File : BF142532.D
Acq On : 23 May 2025 13:41
Operator : RC/JU
Sample : Q2100-04MSD
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 23 14:03:57 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

Instrument :
BNA_F
ClientSampleId :
TP-45MSD

Manual Integrations APPROVED
Reviewed By :Rahul Chavli 05/27/2025
Supervised By :Jagrut Upadhyay 05/27/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.210	196	217153	42.722	ng	99
46) 1,1'-Biphenyl	9.357	154	818491	42.372	ng	100
47) 2-Chloronaphthalene	9.386	162	611229	42.827	ng	99
48) 2-Nitroaniline	9.481	65	178729	43.326	ng	97
49) Acenaphthylene	9.804	152	1011442	41.970	ng	99
50) Dimethylphthalate	9.663	163	702884	42.783	ng	100
51) 2,6-Dinitrotoluene	9.722	165	154865	43.675	ng	99
52) Acenaphthene	9.975	154	682029	46.347	ng	99
53) 3-Nitroaniline	9.886	138	95079	24.550	ng	99
54) 2,4-Dinitrophenol	9.998	184	189908	103.665	ng	92
55) Dibenzofuran	10.145	168	883252	41.710	ng	99
56) 4-Nitrophenol	10.051	139	255242	89.319	ng	100
57) 2,4-Dinitrotoluene	10.128	165	208376	44.998	ng	98
58) Fluorene	10.486	166	686117	41.940	ng	98
59) 2,3,4,6-Tetrachlorophenol	10.263	232	184473	43.474	ng	99
60) Diethylphthalate	10.363	149	685883	42.747	ng	99
61) 4-Chlorophenyl-phenyle...	10.480	204	333266	41.469	ng	97
62) 4-Nitroaniline	10.504	138	154852	44.085	ng	98
63) Azobenzene	10.639	77	676743	46.958	ng	99
65) 4,6-Dinitro-2-methylph...	10.533	198	116634	52.172	ng	99
66) n-Nitrosodiphenylamine	10.598	169	599635	43.753	ng	99
67) 4-Bromophenyl-phenylether	10.969	248	206212	43.535	ng	99
68) Hexachlorobenzene	11.039	284	228199	43.559	ng	98
69) Atrazine	11.122	200	174427	47.924	ng	99
70) Pentachlorophenol	11.233	266	269625	91.158	ng	100
71) Phenanthrene	11.451	178	921600	43.049	ng	99
72) Anthracene	11.504	178	948760	43.424	ng	100
73) Carbazole	11.657	167	822959	44.060	ng	100
74) Di-n-butylphthalate	11.986	149	955418	46.731	ng	100
75) Fluoranthene	12.639	202	870987	43.541	ng	98
77) Benzidine	12.763	184	377613	46.379	ng	98
78) Pyrene	12.869	202	848467	41.571	ng	100
80) Butylbenzylphthalate	13.486	149	293638	52.067	ng	99
81) Benzo(a)anthracene	14.057	228	627185	42.929	ng	99
82) 3,3'-Dichlorobenzidine	14.021	252	142487	32.155	ng	99
83) Chrysene	14.098	228	588371	44.819	ng	100
84) Bis(2-ethylhexyl)phtha...	14.045	149	373256	51.701	ng	99
85) Di-n-octyl phthalate	14.663	149	627635	44.461	ng	99
87) Indeno(1,2,3-cd)pyrene	17.080	276	812672	42.997	ng	99
88) Benzo(b)fluoranthene	15.121	252	687661	46.150	ng	99
89) Benzo(k)fluoranthene	15.151	252	555974	39.838	ng	98
90) Benzo(a)pyrene	15.498	252	617384	43.957	ng	99
91) Dibenzo(a,h)anthracene	17.098	278	656511	42.827	ng	99
92) Benzo(g,h,i)perylene	17.533	276	659798	43.032	ng	98

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

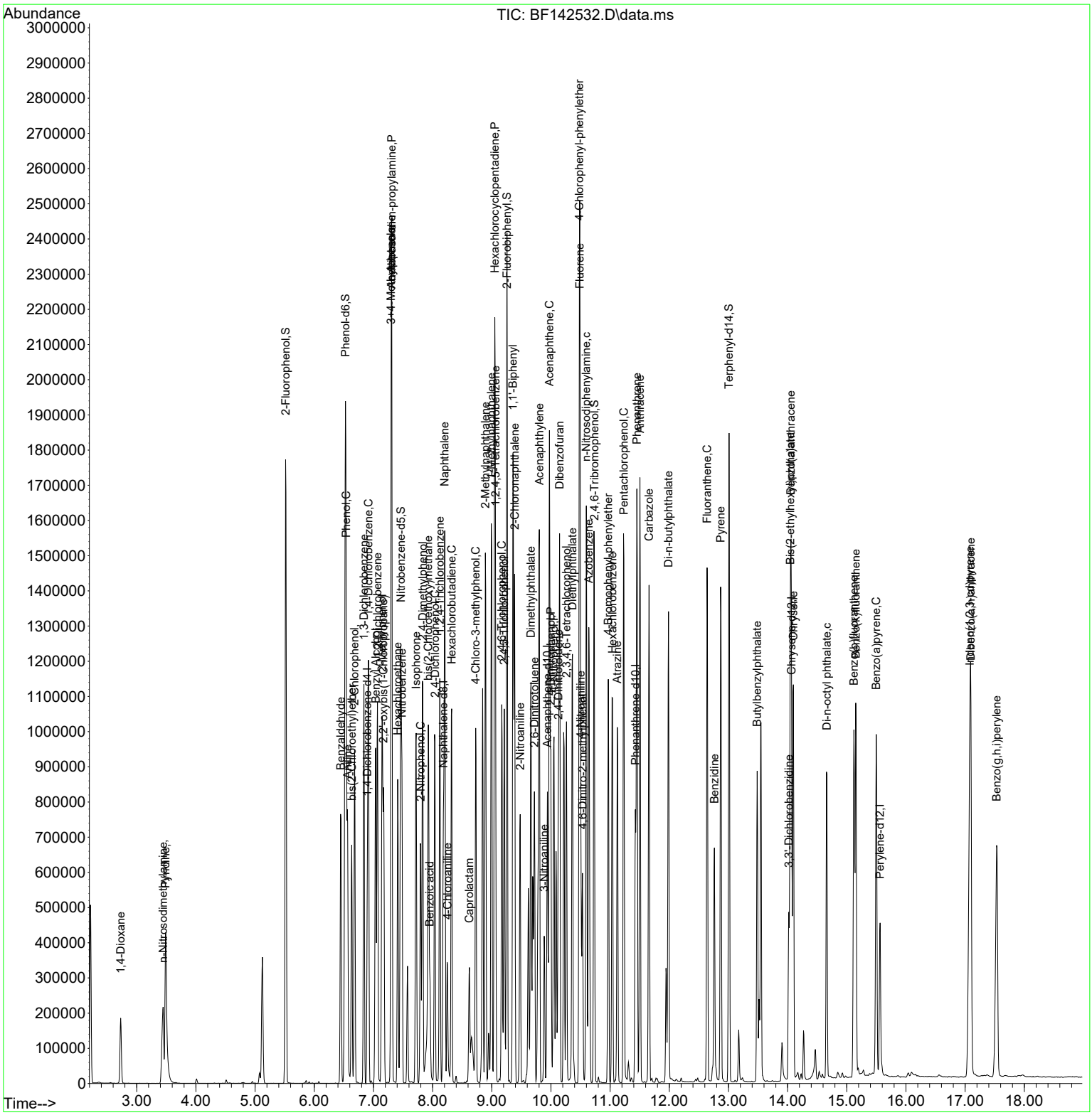
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052325\
Data File : BF142532.D
Acq On : 23 May 2025 13:41
Operator : RC/JU
Sample : Q2100-04MSD
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 23 14:03:57 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

Instrument :
BNA_F
ClientSampleId :
TP-45MSD

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 05/27/2025
Supervised By :Jagrut Upadhyay 05/27/2025



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:	bf052325	Instrument	BNA_f

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
PB168126BS	BF142529.D	Caprolactam	Rahul	5/27/2025 10:49:59 AM	Jagrut	5/27/2025 2:37:50 PM	Peak Integrated by Software
Q2100-04MS	BF142531.D	Caprolactam	Rahul	5/27/2025 10:50:01 AM	Jagrut	5/27/2025 2:37:52 PM	Peak Integrated by Software
Q2100-04MSD	BF142532.D	Caprolactam	Rahul	5/27/2025 10:50:04 AM	Jagrut	5/27/2025 2:37:55 PM	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

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 # BF052325

Review By	Rahul	Review On	5/27/2025 10:55:40 AM				
Supervise By	Jagrut	Supervise On	5/27/2025 2:38:36 PM				
SubDirectory	BF052325	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	S12666,10ul/1000ul sample
ICV/I.BLK	SP6770
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BF142526.D	23 May 2025 10:43	RC/JU	Ok
2	SSTDCCC040	BF142527.D	23 May 2025 11:12	RC/JU	Ok
3	PB168126BL	BF142528.D	23 May 2025 11:41	RC/JU	Ok
4	PB168126BS	BF142529.D	23 May 2025 12:10	RC/JU	Ok,M
5	Q2100-04	BF142530.D	23 May 2025 12:43	RC/JU	Ok
6	Q2100-04MS	BF142531.D	23 May 2025 13:12	RC/JU	Ok,M
7	Q2100-04MSD	BF142532.D	23 May 2025 13:41	RC/JU	Ok,M
8	Q2097-03	BF142533.D	23 May 2025 14:10	RC/JU	Ok
9	Q2097-03MS	BF142534.D	23 May 2025 14:39	RC/JU	Ok,M
10	Q2097-03MSD	BF142535.D	23 May 2025 15:07	RC/JU	Ok,M
11	Q2100-02	BF142536.D	23 May 2025 15:37	RC/JU	Ok
12	Q2100-01	BF142537.D	23 May 2025 16:05	RC/JU	Ok
13	Q2114-01	BF142538.D	23 May 2025 16:34	RC/JU	Ok
14	Q2095-04	BF142539.D	23 May 2025 17:03	RC/JU	Ok
15	Q2095-04MS	BF142540.D	23 May 2025 17:32	RC/JU	Ok,M
16	Q2095-04MSD	BF142541.D	23 May 2025 18:01	RC/JU	Ok,M
17	Q2109-04	BF142542.D	23 May 2025 18:29	RC/JU	Ok
18	Q2102-03	BF142543.D	23 May 2025 18:58	RC/JU	Ok,M
19	Q2109-01	BF142544.D	23 May 2025 19:27	RC/JU	Dilution
20	Q2109-01MS	BF142545.D	23 May 2025 19:56	RC/JU	Ok,M
21	Q2109-01MSD	BF142546.D	23 May 2025 20:25	RC/JU	Ok,M

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF052325

Review By	Rahul	Review On	5/27/2025 10:55:40 AM				
Supervise By	Jagrut	Supervise On	5/27/2025 2:38:36 PM				
SubDirectory	BF052325	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	S12666,10ul/1000ul sample
ICV/I.BLK	SP6770
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	Q2100-03	BF142547.D	23 May 2025 20:53	RC/JU	Ok
23	Q2112-01	BF142548.D	23 May 2025 21:22	RC/JU	Ok,M
24	Q2113-01	BF142549.D	23 May 2025 21:51	RC/JU	Ok
25	Q2102-01	BF142550.D	23 May 2025 22:21	RC/JU	Ok,M

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

M : Manual Integration

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF052325

Review By	Rahul	Review On	5/27/2025 10:55:40 AM		
Supervise By	Jagrut	Supervise On	5/27/2025 2:38:36 PM		
SubDirectory	BF052325	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	S12666,10ul/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	BF142526.D	23 May 2025 10:43		RC/JU	Ok
2	SSTDCCC040	SSTDCCC040	BF142527.D	23 May 2025 11:12		RC/JU	Ok
3	PB168126BL	PB168126BL	BF142528.D	23 May 2025 11:41		RC/JU	Ok
4	PB168126BS	PB168126BS	BF142529.D	23 May 2025 12:10		RC/JU	Ok,M
5	Q2100-04	TP-45	BF142530.D	23 May 2025 12:43		RC/JU	Ok
6	Q2100-04MS	TP-45MS	BF142531.D	23 May 2025 13:12		RC/JU	Ok,M
7	Q2100-04MSD	TP-45MSD	BF142532.D	23 May 2025 13:41		RC/JU	Ok,M
8	Q2097-03	RBR200044	BF142533.D	23 May 2025 14:10		RC/JU	Ok
9	Q2097-03MS	RBR200044MS	BF142534.D	23 May 2025 14:39		RC/JU	Ok,M
10	Q2097-03MSD	RBR200044MSD	BF142535.D	23 May 2025 15:07		RC/JU	Ok,M
11	Q2100-02	TP-22	BF142536.D	23 May 2025 15:37		RC/JU	Ok
12	Q2100-01	TP-16	BF142537.D	23 May 2025 16:05		RC/JU	Ok
13	Q2114-01	GAW1	BF142538.D	23 May 2025 16:34		RC/JU	Ok
14	Q2095-04	WCS-TP1	BF142539.D	23 May 2025 17:03		RC/JU	Ok
15	Q2095-04MS	WCS-TP1MS	BF142540.D	23 May 2025 17:32		RC/JU	Ok,M
16	Q2095-04MSD	WCS-TP1MSD	BF142541.D	23 May 2025 18:01		RC/JU	Ok,M
17	Q2109-04	TP-02-MHF	BF142542.D	23 May 2025 18:29		RC/JU	Ok
18	Q2102-03	LAW-25-0078	BF142543.D	23 May 2025 18:58	Internal standard fail	RC/JU	Ok,M

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF052325

Review By	Rahul	Review On	5/27/2025 10:55:40 AM		
Supervise By	Jagrut	Supervise On	5/27/2025 2:38:36 PM		
SubDirectory	BF052325	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	S12666,10ul/1000ul sample
ICV/I.BLK	SP6770
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	Q2109-01	TP-02-MHF	BF142544.D	23 May 2025 19:27	Need 2X Dilution	RC/JU	Dilution
20	Q2109-01MS	TP-02-MHFMS	BF142545.D	23 May 2025 19:56		RC/JU	Ok,M
21	Q2109-01MSD	TP-02-MHFMSD	BF142546.D	23 May 2025 20:25		RC/JU	Ok,M
22	Q2100-03	TP-21	BF142547.D	23 May 2025 20:53		RC/JU	Ok
23	Q2112-01	EO-03-05222025	BF142548.D	23 May 2025 21:22		RC/JU	Ok,M
24	Q2113-01	HD-02-05222025	BF142549.D	23 May 2025 21:51		RC/JU	Ok
25	Q2102-01	LAW-25-0077	BF142550.D	23 May 2025 22:21	Internal Standard Fail	RC/JU	Ok,M

M : Manual Integration

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EXTRACTION LOGPAGE

PB168126

SOP ID:	M3541-ASE Extraction-14				
Clean Up SOP #:	N/A			**Extraction Start Date :**	05/22/2025
Matrix :	Solid			**Extraction Start Time :**	09:00
Weigh By:	EH	**Extraction By:**	RJ	**Extraction End Date :**	05/22/2025
Balance check:	RJ	**Filter By:**	RJ	**Extraction End Time :**	12:10
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	SP6782
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	EP2614
Sand	N/A	EP2865
Methylene Chloride	N/A	E3930
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
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
5/22/25	RS (Ext lab)	RC/SVOC
12:15	**Preparation Group**	**Analysis Group**

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PrepBatch ID : PB168126

Analytical Method: M3541-ASE Extraction-14

Concentration Date: 05/22/2025

Sample ID	Client Sample ID	Test	g/ mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB168126BL	SBLK126	SVOC-TCL BNA -20	30.03	N/A	ritesh	Evelyn	1			U6-1
PB168126BS	SLCS126	SVOC-TCL BNA -20	30.02	N/A	ritesh	Evelyn	1			2
Q2095-01	WCS-TP1	SVOC-TCL BNA -20	50.07	N/A	ritesh	Evelyn	1	E		3
Q2095-05	WCS-TP2	SVOC-TCL BNA -20	50.04	N/A	ritesh	Evelyn	1	E		4
Q2100-01	TP-16	SVOC-TCL BNA -20	30.07	N/A	ritesh	Evelyn	1	E		5
Q2100-02	TP-22	SVOC-TCL BNA -20	30.09	N/A	ritesh	Evelyn	1	E		6
Q2100-03	TP-21	SVOC-TCL BNA -20	30.02	N/A	ritesh	Evelyn	1	E		U1-1
Q2100-04	TP-45	SVOC-TCL BNA -20	30.05	N/A	ritesh	Evelyn	1	E		2
Q2100-04MS	TP-45MS	SVOC-TCL BNA -20	30.08	N/A	ritesh	Evelyn	1	E		3
Q2100-04MSD	TP-45MSD	SVOC-TCL BNA -20	30.06	N/A	ritesh	Evelyn	1	E		4
Q2101-01	TP-1-MHE	SVOC-TCL BNA -20	50.07	N/A	ritesh	Evelyn	1	C		5
Q2102-01	LAW-25-0077	SVOC-TCL BNA -20	30.05	N/A	ritesh	Evelyn	1	E	Small Partical	6
Q2104-01	TR-06-052125	SVOC-TCL BNA -20	50.03	N/A	ritesh	Evelyn	1	E		U2-1

RS 5/22

* **Extracts relinguished on the same date as received.**

1681126 9:00

WORKLIST(Hardcopy Internal Chain)

WorkList Name : Q2100BN **WorkList ID :** 189697 **Department :** Extraction **Date :** 05-22-2025 08:37:16

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2095-01	WCS-TP1	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	L41	05/20/2025	8270E
Q2095-05	WCS-TP2	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	L41	05/20/2025	8270E
Q2100-01	TP-16	Solid	SVOC-TCL BNA -20	Cool 4 deg C	CAMP02	L41	05/20/2025	8270E
Q2100-02	TP-22	Solid	SVOC-TCL BNA -20	Cool 4 deg C	CAMP02	L41	05/20/2025	8270E
Q2100-03	TP-21	Solid	SVOC-TCL BNA -20	Cool 4 deg C	CAMP02	L41	05/20/2025	8270E
Q2100-04	TP-45	Solid	SVOC-TCL BNA -20	Cool 4 deg C	CAMP02	L41	05/20/2025	8270E
Q2101-01	TP-1-MHE	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	L41	05/19/2025	8270E
Q2102-01	LAW-25-0077	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	L21	05/21/2025	8270E
Q2104-01	TR-06-052125	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG05	L31	05/21/2025	8270E

Date/Time 05/22/25 8:55
Raw Sample Received by: RJ (EA-(cob)
Raw Sample Relinquished by: SM

Date/Time 05/22/25 9:10
Raw Sample Received by: SM
Raw Sample Relinquished by: RJ (EA-(cob)

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LAB CHRONICLE

OrderID:	Q2100	**OrderDate:**	5/20/2025 3:22:00 PM
Client:	CDM Smith	**Project:**	South River WM Replacement
Contact:	Marcie Ann Encinas	**Location:**	L41,VOA Ref. #2 Soil

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2100-01	**TP-16**	**SOIL**			**05/19/25**			**05/20/25**
			SVOC-TCL BNA -20	8270E		05/22/25	05/23/25	
Q2100-02	**TP-22**	**SOIL**			**05/19/25**			**05/20/25**
			SVOC-TCL BNA -20	8270E		05/22/25	05/23/25	
Q2100-03	**TP-21**	**SOIL**			**05/20/25**			**05/20/25**
			SVOC-TCL BNA -20	8270E		05/22/25	05/23/25	
Q2100-04	**TP-45**	**SOIL**			**05/20/25**			**05/20/25**
			SVOC-TCL BNA -20	8270E		05/22/25	05/23/25	

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Hit Summary Sheet
SW-846

SDG No.: Q2100 **Order ID:** Q2100

Client: CDM Smith **Project ID:** South River WM Replacement

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID : TP-21								
Q2100-03	TP-21	SOIL	alpha-Chlordane	0.34	JP	0.15	2.20	ug/kg
			Total Concentration:	**0.340**				

SAMPLE DATA

Alliance TECHNICAL GROUP
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Report of Analysis

Client:	CDM Smith	Date Collected:	05/19/25
Project:	South River WM Replacement	Date Received:	05/20/25
Client Sample ID:	TP-16	SDG No.:	Q2100
Lab Sample ID:	Q2100-01	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	88.4 Decanted:
Sample Wt/Vol:	30.02 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD088723.D	1	05/22/25 08:30	05/22/25 14:51	PB168125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
319-84-6	alpha-BHC	0.15	U	0.15	1.90	ug/kg
319-85-7	beta-BHC	0.20	U	0.20	1.90	ug/kg
319-86-8	delta-BHC	0.44	U	0.44	1.90	ug/kg
58-89-9	gamma-BHC (Lindane)	0.16	U	0.16	1.90	ug/kg
76-44-8	Heptachlor	0.14	U	0.14	1.90	ug/kg
309-00-2	Aldrin	0.14	U	0.14	1.90	ug/kg
1024-57-3	Heptachlor epoxide	0.21	U	0.21	1.90	ug/kg
959-98-8	Endosulfan I	0.16	U	0.16	1.90	ug/kg
60-57-1	Dieldrin	0.16	U	0.16	1.90	ug/kg
72-55-9	4,4-DDE	0.16	U	0.16	1.90	ug/kg
72-20-8	Endrin	0.16	U	0.16	1.90	ug/kg
33213-65-9	Endosulfan II	0.33	U	0.33	1.90	ug/kg
72-54-8	4,4-DDD	0.17	U	0.17	1.90	ug/kg
1031-07-8	Endosulfan Sulfate	0.15	U	0.15	1.90	ug/kg
50-29-3	4,4-DDT	0.16	U	0.16	1.90	ug/kg
72-43-5	Methoxychlor	0.42	U	0.42	1.90	ug/kg
53494-70-5	Endrin ketone	0.21	U	0.21	1.90	ug/kg
7421-93-4	Endrin aldehyde	0.42	U	0.42	1.90	ug/kg
5103-71-9	alpha-Chlordane	0.14	U	0.14	1.90	ug/kg
5103-74-2	gamma-Chlordane	0.17	U	0.17	1.90	ug/kg
8001-35-2	Toxaphene	6.10	U	6.10	37.3	ug/kg
SURROGATES						
2051-24-3	Decachlorobiphenyl	13.1		20 - 144	66%	SPK: 20
877-09-8	Tetrachloro-m-xylene	17.6		19 - 148	88%	SPK: 20

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Report of Analysis

Client:	CDM Smith	Date Collected:	05/19/25
Project:	South River WM Replacement	Date Received:	05/20/25
Client Sample ID:	TP-16	SDG No.:	Q2100
Lab Sample ID:	Q2100-01	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	88.4 Decanted:
Sample Wt/Vol:	30.02 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD088723.D	1	05/22/25 08:30	05/22/25 14:51	PB168125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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:	CDM Smith	Date Collected:	05/19/25
Project:	South River WM Replacement	Date Received:	05/20/25
Client Sample ID:	TP-22	SDG No.:	Q2100
Lab Sample ID:	Q2100-02	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	84 Decanted:
Sample Wt/Vol:	30.07 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD088724.D	1	05/22/25 08:30	05/22/25 15:05	PB168125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
319-84-6	alpha-BHC	0.15	U	0.15	2.00	ug/kg
319-85-7	beta-BHC	0.21	U	0.21	2.00	ug/kg
319-86-8	delta-BHC	0.46	U	0.46	2.00	ug/kg
58-89-9	gamma-BHC (Lindane)	0.17	U	0.17	2.00	ug/kg
76-44-8	Heptachlor	0.14	U	0.14	2.00	ug/kg
309-00-2	Aldrin	0.14	U	0.14	2.00	ug/kg
1024-57-3	Heptachlor epoxide	0.23	U	0.23	2.00	ug/kg
959-98-8	Endosulfan I	0.17	U	0.17	2.00	ug/kg
60-57-1	Dieldrin	0.17	U	0.17	2.00	ug/kg
72-55-9	4,4-DDE	0.17	U	0.17	2.00	ug/kg
72-20-8	Endrin	0.17	U	0.17	2.00	ug/kg
33213-65-9	Endosulfan II	0.34	U	0.34	2.00	ug/kg
72-54-8	4,4-DDD	0.18	U	0.18	2.00	ug/kg
1031-07-8	Endosulfan Sulfate	0.15	U	0.15	2.00	ug/kg
50-29-3	4,4-DDT	0.17	U	0.17	2.00	ug/kg
72-43-5	Methoxychlor	0.44	U	0.44	2.00	ug/kg
53494-70-5	Endrin ketone	0.23	U	0.23	2.00	ug/kg
7421-93-4	Endrin aldehyde	0.44	U	0.44	2.00	ug/kg
5103-71-9	alpha-Chlordane	0.14	U	0.14	2.00	ug/kg
5103-74-2	gamma-Chlordane	0.18	U	0.18	2.00	ug/kg
8001-35-2	Toxaphene	6.40	U	6.40	39.2	ug/kg
SURROGATES						
2051-24-3	Decachlorobiphenyl	15.5		20 - 144	78%	SPK: 20
877-09-8	Tetrachloro-m-xylene	18.2		19 - 148	91%	SPK: 20

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Report of Analysis

Client:	CDM Smith	Date Collected:	05/19/25
Project:	South River WM Replacement	Date Received:	05/20/25
Client Sample ID:	TP-22	SDG No.:	Q2100
Lab Sample ID:	Q2100-02	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	84 Decanted:
Sample Wt/Vol:	30.07 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD088724.D	1	05/22/25 08:30	05/22/25 15:05	PB168125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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:	CDM Smith	Date Collected:	05/20/25
Project:	South River WM Replacement	Date Received:	05/20/25
Client Sample ID:	TP-21	SDG No.:	Q2100
Lab Sample ID:	Q2100-03	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	78.2 Decanted:
Sample Wt/Vol:	30.02 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD088725.D	1	05/22/25 08:30	05/22/25 15:18	PB168125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
319-84-6	alpha-BHC	0.17	U	0.17	2.20	ug/kg
319-85-7	beta-BHC	0.23	U	0.23	2.20	ug/kg
319-86-8	delta-BHC	0.50	U	0.50	2.20	ug/kg
58-89-9	gamma-BHC (Lindane)	0.18	U	0.18	2.20	ug/kg
76-44-8	Heptachlor	0.15	U	0.15	2.20	ug/kg
309-00-2	Aldrin	0.15	U	0.15	2.20	ug/kg
1024-57-3	Heptachlor epoxide	0.24	U	0.24	2.20	ug/kg
959-98-8	Endosulfan I	0.18	U	0.18	2.20	ug/kg
60-57-1	Dieldrin	0.18	U	0.18	2.20	ug/kg
72-55-9	4,4-DDE	0.18	U	0.18	2.20	ug/kg
72-20-8	Endrin	0.18	U	0.18	2.20	ug/kg
33213-65-9	Endosulfan II	0.37	U	0.37	2.20	ug/kg
72-54-8	4,4-DDD	0.19	U	0.19	2.20	ug/kg
1031-07-8	Endosulfan Sulfate	0.17	U	0.17	2.20	ug/kg
50-29-3	4,4-DDT	0.18	U	0.18	2.20	ug/kg
72-43-5	Methoxychlor	0.47	U	0.47	2.20	ug/kg
53494-70-5	Endrin ketone	0.24	U	0.24	2.20	ug/kg
7421-93-4	Endrin aldehyde	0.47	U	0.47	2.20	ug/kg
5103-71-9	alpha-Chlordane	0.34	JP	0.15	2.20	ug/kg
5103-74-2	gamma-Chlordane	0.19	U	0.19	2.20	ug/kg
8001-35-2	Toxaphene	6.90	U	6.90	42.2	ug/kg
SURROGATES						
2051-24-3	Decachlorobiphenyl	12.2		20 - 144	61%	SPK: 20
877-09-8	Tetrachloro-m-xylene	13.4		19 - 148	67%	SPK: 20

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Report of Analysis

Client:	CDM Smith	Date Collected:	05/20/25
Project:	South River WM Replacement	Date Received:	05/20/25
Client Sample ID:	TP-21	SDG No.:	Q2100
Lab Sample ID:	Q2100-03	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	78.2 Decanted:
Sample Wt/Vol:	30.02 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD088725.D	1	05/22/25 08:30	05/22/25 15:18	PB168125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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:	CDM Smith	Date Collected:	05/20/25
Project:	South River WM Replacement	Date Received:	05/20/25
Client Sample ID:	TP-45	SDG No.:	Q2100
Lab Sample ID:	Q2100-04	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	76.2 Decanted:
Sample Wt/Vol:	30.05 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD088726.D	1	05/22/25 08:30	05/22/25 15:32	PB168125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
319-84-6	alpha-BHC	0.17	U	0.17	2.20	ug/kg
319-85-7	beta-BHC	0.24	U	0.24	2.20	ug/kg
319-86-8	delta-BHC	0.51	U	0.51	2.20	ug/kg
58-89-9	gamma-BHC (Lindane)	0.18	U	0.18	2.20	ug/kg
76-44-8	Heptachlor	0.16	U	0.16	2.20	ug/kg
309-00-2	Aldrin	0.16	U	0.16	2.20	ug/kg
1024-57-3	Heptachlor epoxide	0.25	U	0.25	2.20	ug/kg
959-98-8	Endosulfan I	0.18	U	0.18	2.20	ug/kg
60-57-1	Dieldrin	0.18	U	0.18	2.20	ug/kg
72-55-9	4,4-DDE	0.18	U	0.18	2.20	ug/kg
72-20-8	Endrin	0.18	U	0.18	2.20	ug/kg
33213-65-9	Endosulfan II	0.38	U	0.38	2.20	ug/kg
72-54-8	4,4-DDD	0.20	U	0.20	2.20	ug/kg
1031-07-8	Endosulfan Sulfate	0.17	U	0.17	2.20	ug/kg
50-29-3	4,4-DDT	0.18	U	0.18	2.20	ug/kg
72-43-5	Methoxychlor	0.48	U	0.48	2.20	ug/kg
53494-70-5	Endrin ketone	0.25	U	0.25	2.20	ug/kg
7421-93-4	Endrin aldehyde	0.48	U	0.48	2.20	ug/kg
5103-71-9	alpha-Chlordane	0.16	U	0.16	2.20	ug/kg
5103-74-2	gamma-Chlordane	0.20	U	0.20	2.20	ug/kg
8001-35-2	Toxaphene	7.10	U	7.10	43.2	ug/kg
SURROGATES						
2051-24-3	Decachlorobiphenyl	15.7		20 - 144	78%	SPK: 20
877-09-8	Tetrachloro-m-xylene	17.8		19 - 148	89%	SPK: 20

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Report of Analysis

Client:	CDM Smith	Date Collected:	05/20/25
Project:	South River WM Replacement	Date Received:	05/20/25
Client Sample ID:	TP-45	SDG No.:	Q2100
Lab Sample ID:	Q2100-04	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	76.2 Decanted:
Sample Wt/Vol:	30.05 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD088726.D	1	05/22/25 08:30	05/22/25 15:32	PB168125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

Comments:

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() = Laboratory InHouse Limit

QC SUMMARY

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Surrogate Summary

SDG No.: Q2100

Client: CDM Smith

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		43	140
		Tetrachloro-m-xylene	1	20	16.5	83		77	126
		Decachlorobiphenyl	2	20	18.0	90		43	140
		Tetrachloro-m-xylene	2	20	16.9	84		77	126
I.BLK-PD088719.D	PIBLK-PD088719.D	Decachlorobiphenyl	1	20	19.7	98		43	140
		Tetrachloro-m-xylene	1	20	18.9	95		77	126
		Decachlorobiphenyl	2	20	15.8	79		43	140
		Tetrachloro-m-xylene	2	20	19.8	99		77	126
PB168125BL	PB168125BL	Decachlorobiphenyl	1	20	20.1	101		20	144
		Tetrachloro-m-xylene	1	20	19.4	97		19	148
		Decachlorobiphenyl	2	20	17.8	89		20	144
		Tetrachloro-m-xylene	2	20	20.8	104		19	148
PB168125BS	PB168125BS	Decachlorobiphenyl	1	20	22.1	110		20	144
		Tetrachloro-m-xylene	1	20	22.1	111		19	148
		Decachlorobiphenyl	2	20	21.0	105		20	144
		Tetrachloro-m-xylene	2	20	23.0	115		19	148
Q2100-01	TP-16	Decachlorobiphenyl	1	20	13.1	66		20	144
		Tetrachloro-m-xylene	1	20	17.3	87		19	148
		Decachlorobiphenyl	2	20	12.1	61		20	144
		Tetrachloro-m-xylene	2	20	17.6	88		19	148
Q2100-02	TP-22	Decachlorobiphenyl	1	20	15.5	78		20	144
		Tetrachloro-m-xylene	1	20	17.7	89		19	148
		Decachlorobiphenyl	2	20	14.1	71		20	144
		Tetrachloro-m-xylene	2	20	18.2	91		19	148
Q2100-03	TP-21	Decachlorobiphenyl	1	20	12.2	61		20	144
		Tetrachloro-m-xylene	1	20	12.9	65		19	148
		Decachlorobiphenyl	2	20	11.0	55		20	144
		Tetrachloro-m-xylene	2	20	13.4	67		19	148
Q2100-04	TP-45	Decachlorobiphenyl	1	20	15.7	78		20	144
		Tetrachloro-m-xylene	1	20	17.4	87		19	148
		Decachlorobiphenyl	2	20	14.0	70		20	144
		Tetrachloro-m-xylene	2	20	17.8	89		19	148
Q2100-04MS	TP-45MS	Decachlorobiphenyl	1	20	20.4	102		20	144
		Tetrachloro-m-xylene	1	20	20.0	100		19	148
		Decachlorobiphenyl	2	20	18.5	93		20	144
		Tetrachloro-m-xylene	2	20	21.4	107		19	148
Q2100-04MSD	TP-45MSD	Decachlorobiphenyl	1	20	20.4	102		20	144
		Tetrachloro-m-xylene	1	20	20.4	102		19	148
		Decachlorobiphenyl	2	20	19.0	95		20	144
		Tetrachloro-m-xylene	2	20	21.6	108		19	148
I.BLK-PD088732.D	PIBLK-PD088732.D	Decachlorobiphenyl	1	20	17.1	85		43	140

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Surrogate Summary

SDG No.: Q2100

Client: CDM Smith

Analytical Method: 8081B

Lab Sample ID	Client ID	Parameter	Column	Spike	Result	Rec	Qual	Limits Low	Limits High
I.BLK-PD088732.D	PIBLK-PD088732.D	Tetrachloro-m-xylene	1	20	19.3	97		77	126
		Decachlorobiphenyl	2	20	12.6	63		43	140
		Tetrachloro-m-xylene	2	20	20.2	101		77	126

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q2100 **Analytical Method:** 8081B

Client: CDM Smith **DataFile :** PD088727.D

Lab Sample ID:	Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Client Sample ID:	**TP-45MS**											
Q2100-04MS (Column 1)	alpha-BHC	21.84	0	22.6	ug/kg	103				60	144	
	beta-BHC	21.84	0	21.6	ug/kg	99				54	143	
	delta-BHC	21.84	0	24.1	ug/kg	110				29	151	
	gamma-BHC (Lindane)	21.84	0	22.4	ug/kg	103				61	140	
	Heptachlor	21.84	0	21.7	ug/kg	99				63	135	
	Aldrin	21.84	0	22.5	ug/kg	103				49	139	
	Heptachlor epoxide	21.84	0	22.1	ug/kg	101				41	156	
	Endosulfan I	21.84	0	21.9	ug/kg	100				56	142	
	Dieldrin	21.84	0	22.0	ug/kg	101				47	161	
	4,4'-DDE	21.84	0	21.9	ug/kg	100				55	136	
	Endrin	21.84	0	21.1	ug/kg	97				57	139	
	Endosulfan II	21.84	0	21.3	ug/kg	98				40	163	
	4,4'-DDD	21.84	0	24.3	ug/kg	111				47	163	
	Endosulfan sulfate	21.84	0	20.8	ug/kg	95				62	139	
	4,4'-DDT	21.84	0	17.0	ug/kg	78				51	146	
	Methoxychlor	21.84	0	16.8	ug/kg	77				54	136	
	Endrin ketone	21.84	0	21.3	ug/kg	98				60	129	
	Endrin aldehyde	21.84	0	20.9	ug/kg	96				59	132	
	alpha-Chlordane	21.84	0	21.9	ug/kg	100				39	166	
	gamma-Chlordane	21.84	0	22.0	ug/kg	101				44	175	
Client Sample ID:	**TP-45MS**											
Q2100-04MS (Column 2)	alpha-BHC	21.84	0	22.1	ug/kg	101				60	144	
	beta-BHC	21.84	0	22.2	ug/kg	102				54	143	
	delta-BHC	21.84	0	21.9	ug/kg	100				29	151	
	gamma-BHC (Lindane)	21.84	0	21.8	ug/kg	100				61	140	
	Heptachlor	21.84	0	20.8	ug/kg	95				63	135	
	Aldrin	21.84	0	21.8	ug/kg	100				49	139	
	Heptachlor epoxide	21.84	0	21.3	ug/kg	98				41	156	
	Endosulfan I	21.84	0	21.1	ug/kg	97				56	142	
	Dieldrin	21.84	0	21.1	ug/kg	97				47	161	
	4,4'-DDE	21.84	0	20.9	ug/kg	96				55	136	
	Endrin	21.84	0	20.3	ug/kg	93				57	139	
	Endosulfan II	21.84	0	20.6	ug/kg	94				40	163	
	4,4'-DDD	21.84	0	21.8	ug/kg	100				47	163	
	Endosulfan sulfate	21.84	0	20.1	ug/kg	92				62	139	
	4,4'-DDT	21.84	0	16.7	ug/kg	76				51	146	

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q2100 **Analytical Method:** 8081B

Client: CDM Smith **DataFile :** PD088727.D

Lab Sample ID:	Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	Limits RPD
Q2100-04MS (Column 2)	Methoxychlor	21.84	0	16.9	ug/kg	77				54	136	
	Endrin ketone	21.84	0	20.2	ug/kg	92				60	129	
	Endrin aldehyde	21.84	0	19.9	ug/kg	91				59	132	
	alpha-Chlordane	21.84	0	21.3	ug/kg	98				39	166	
	gamma-Chlordane	21.84	0	21.3	ug/kg	98				44	175	

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q2100 **Analytical Method:** 8081B

Client: CDM Smith **DataFile :** PD088728.D

Lab Sample ID:	Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Client Sample ID:	**TP-45MSD**											
Q2100-04MSD (Column 1)	alpha-BHC	21.86	0	23.0	ug/kg	105		2		60	144	20
	beta-BHC	21.86	0	22.2	ug/kg	102		3		54	143	20
	delta-BHC	21.86	0	24.7	ug/kg	113		3		29	151	20
	gamma-BHC (Lindane)	21.86	0	23.0	ug/kg	105		2		61	140	20
	Heptachlor	21.86	0	22.2	ug/kg	102		3		63	135	20
	Aldrin	21.86	0	23.0	ug/kg	105		2		49	139	20
	Heptachlor epoxide	21.86	0	22.6	ug/kg	103		2		41	156	20
	Endosulfan I	21.86	0	22.5	ug/kg	103		3		56	142	20
	Dieldrin	21.86	0	22.5	ug/kg	103		2		47	161	20
	4,4'-DDE	21.86	0	22.6	ug/kg	103		3		55	136	20
	Endrin	21.86	0	21.9	ug/kg	100		3		57	139	20
	Endosulfan II	21.86	0	22.0	ug/kg	101		3		40	163	20
	4,4'-DDD	21.86	0	24.8	ug/kg	113		2		47	163	20
	Endosulfan sulfate	21.86	0	21.9	ug/kg	100		5		62	139	20
	4,4'-DDT	21.86	0	18.4	ug/kg	84		7		51	146	20
	Methoxychlor	21.86	0	17.9	ug/kg	82		6		54	136	20
	Endrin ketone	21.86	0	21.9	ug/kg	100		2		60	129	20
	Endrin aldehyde	21.86	0	21.5	ug/kg	98		2		59	132	20
	alpha-Chlordane	21.86	0	22.5	ug/kg	103		3		39	166	20
	gamma-Chlordane	21.86	0	22.5	ug/kg	103		2		44	175	20
Client Sample ID:	**TP-45MSD**											
Q2100-04MSD (Column 2)	alpha-BHC	21.86	0	22.5	ug/kg	103		2		60	144	20
	beta-BHC	21.86	0	22.7	ug/kg	104		2		54	143	20
	delta-BHC	21.86	0	22.3	ug/kg	102		2		29	151	20
	gamma-BHC (Lindane)	21.86	0	22.3	ug/kg	102		2		61	140	20
	Heptachlor	21.86	0	21.3	ug/kg	97		2		63	135	20
	Aldrin	21.86	0	22.1	ug/kg	101		1		49	139	20
	Heptachlor epoxide	21.86	0	21.8	ug/kg	100		2		41	156	20
	Endosulfan I	21.86	0	21.5	ug/kg	98		1		56	142	20
	Dieldrin	21.86	0	21.7	ug/kg	99		2		47	161	20
	4,4'-DDE	21.86	0	21.2	ug/kg	97		1		55	136	20
	Endrin	21.86	0	20.9	ug/kg	96		3		57	139	20
	Endosulfan II	21.86	0	21.2	ug/kg	97		3		40	163	20
	4,4'-DDD	21.86	0	21.9	ug/kg	100		0		47	163	20
	Endosulfan sulfate	21.86	0	20.7	ug/kg	95		3		62	139	20
	4,4'-DDT	21.86	0	18.1	ug/kg	83		9		51	146	20

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q2100 **Analytical Method:** 8081B

Client: CDM Smith **DataFile :** PD088728.D

Lab Sample ID:	Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	Limits RPD
Q2100-04MSD (Column 2)	Methoxychlor	21.86	0	17.3	ug/kg	79		3		54	136	20
	Endrin ketone	21.86	0	22.9	ug/kg	105		13		60	129	20
	Endrin aldehyde	21.86	0	20.7	ug/kg	95		4		59	132	20
	alpha-Chlordane	21.86	0	21.7	ug/kg	99		1		39	166	20
	gamma-Chlordane	21.86	0	21.8	ug/kg	100		2		44	175	20

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2100 **Analytical Method:** 8081B

Client: CDM Smith **Datafile :** PD088722.D

Lab Sample ID	Parameter	Spike	Result	Units	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB168125BS (Column 1)	alpha-BHC	16.65	16.9	ug/kg	102				84	123	
	beta-BHC	16.65	16.6	ug/kg	100				82	123	
	delta-BHC	16.65	16.9	ug/kg	102				83	126	
	gamma-BHC (Lindane)	16.65	17.0	ug/kg	102				83	125	
	Heptachlor	16.65	16.8	ug/kg	101				83	122	
	Aldrin	16.65	17.3	ug/kg	104				82	124	
	Heptachlor epoxide	16.65	17.1	ug/kg	103				83	120	
	Endosulfan I	16.65	17.2	ug/kg	103				81	124	
	Dieldrin	16.65	17.3	ug/kg	104				85	121	
	4,4'-DDE	16.65	17.1	ug/kg	103				81	123	
	Endrin	16.65	16.8	ug/kg	101				76	130	
	Endosulfan II	16.65	17.0	ug/kg	102				80	125	
	4,4'-DDD	16.65	20.0	ug/kg	120				80	131	
	Endosulfan sulfate	16.65	16.5	ug/kg	99				81	122	
	4,4'-DDT	16.65	13.2	ug/kg	79				70	129	
	Methoxychlor	16.65	13.6	ug/kg	82				60	119	
	Endrin ketone	16.65	16.9	ug/kg	102				77	132	
	Endrin aldehyde	16.65	16.4	ug/kg	98				79	124	
	alpha-Chlordane	16.65	17.2	ug/kg	103				84	120	
	gamma-Chlordane	16.65	17.3	ug/kg	104				83	122	
PB168125BS (Column 2)	alpha-BHC	16.65	16.7	ug/kg	100				84	123	
	beta-BHC	16.65	16.6	ug/kg	100				82	123	
	delta-BHC	16.65	15.9	ug/kg	95				83	126	
	gamma-BHC (Lindane)	16.65	16.7	ug/kg	100				83	125	
	Heptachlor	16.65	16.1	ug/kg	97				83	122	
	Aldrin	16.65	16.7	ug/kg	100				82	124	
	Heptachlor epoxide	16.65	16.6	ug/kg	100				83	120	
	Endosulfan I	16.65	15.0	ug/kg	90				81	124	
	Dieldrin	16.65	16.6	ug/kg	100				85	121	
	4,4'-DDE	16.65	16.5	ug/kg	99				81	123	
	Endrin	16.65	16.0	ug/kg	96				76	130	
	Endosulfan II	16.65	16.3	ug/kg	98				80	125	
	4,4'-DDD	16.65	17.8	ug/kg	107				80	131	
	Endosulfan sulfate	16.65	15.7	ug/kg	94				81	122	
	4,4'-DDT	16.65	13.4	ug/kg	80				70	129	
	Methoxychlor	16.65	13.5	ug/kg	81				60	119	
	Endrin ketone	16.65	16.0	ug/kg	96				77	132	
	Endrin aldehyde	16.65	15.8	ug/kg	95				79	124	
	alpha-Chlordane	16.65	16.5	ug/kg	99				84	120	
	gamma-Chlordane	16.65	16.6	ug/kg	100				83	122	

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4C

PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB168125BL

Lab Name: CHEMTECH Contract: CAMP02

Lab Code: CHEM Case No.: Q2100 SAS No.: Q2100 SDG NO.: Q2100

Lab Sample ID: PB168125BL Lab File ID: PD088721.D

Matrix: (soil/water) Solid Extraction: (Type) SOXH

Sulfur Cleanup: (Y/N) N Date Extracted: 05/22/2025

Date Analyzed (1): 05/22/2025 Date Analyzed (2): 05/22/2025

Time Analyzed (1): 13:48 Time Analyzed (2): 13:48

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
PB168125BS	PB168125BS	PD088722.D	05/22/2025	05/22/2025
TP-16	Q2100-01	PD088723.D	05/22/2025	05/22/2025
TP-22	Q2100-02	PD088724.D	05/22/2025	05/22/2025
TP-21	Q2100-03	PD088725.D	05/22/2025	05/22/2025
TP-45	Q2100-04	PD088726.D	05/22/2025	05/22/2025
TP-45MS	Q2100-04MS	PD088727.D	05/22/2025	05/22/2025
TP-45MSD	Q2100-04MSD	PD088728.D	05/22/2025	05/22/2025

COMMENTS:

QC SAMPLE DATA

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Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	PB168125BL	SDG No.:	Q2100
Lab Sample ID:	PB168125BL	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	100 Decanted:
Sample Wt/Vol:	30.01 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD088721.D	1	05/22/25 08:30	05/22/25 13:48	PB168125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
319-84-6	alpha-BHC	0.13	U	0.13	1.70	ug/kg
319-85-7	beta-BHC	0.18	U	0.18	1.70	ug/kg
319-86-8	delta-BHC	0.39	U	0.39	1.70	ug/kg
58-89-9	gamma-BHC (Lindane)	0.14	U	0.14	1.70	ug/kg
76-44-8	Heptachlor	0.12	U	0.12	1.70	ug/kg
309-00-2	Aldrin	0.12	U	0.12	1.70	ug/kg
1024-57-3	Heptachlor epoxide	0.19	U	0.19	1.70	ug/kg
959-98-8	Endosulfan I	0.14	U	0.14	1.70	ug/kg
60-57-1	Dieldrin	0.14	U	0.14	1.70	ug/kg
72-55-9	4,4-DDE	0.14	U	0.14	1.70	ug/kg
72-20-8	Endrin	0.14	U	0.14	1.70	ug/kg
33213-65-9	Endosulfan II	0.29	U	0.29	1.70	ug/kg
72-54-8	4,4-DDD	0.15	U	0.15	1.70	ug/kg
1031-07-8	Endosulfan Sulfate	0.13	U	0.13	1.70	ug/kg
50-29-3	4,4-DDT	0.14	U	0.14	1.70	ug/kg
72-43-5	Methoxychlor	0.37	U	0.37	1.70	ug/kg
53494-70-5	Endrin ketone	0.19	U	0.19	1.70	ug/kg
7421-93-4	Endrin aldehyde	0.37	U	0.37	1.70	ug/kg
5103-71-9	alpha-Chlordane	0.12	U	0.12	1.70	ug/kg
5103-74-2	gamma-Chlordane	0.15	U	0.15	1.70	ug/kg
8001-35-2	Toxaphene	5.40	U	5.40	33.0	ug/kg
SURROGATES						
2051-24-3	Decachlorobiphenyl	20.1		20 - 144	101%	SPK: 20
877-09-8	Tetrachloro-m-xylene	20.8		19 - 148	104%	SPK: 20

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Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	PB168125BL	SDG No.:	Q2100
Lab Sample ID:	PB168125BL	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	100 Decanted:
Sample Wt/Vol:	30.01 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD088721.D	1	05/22/25 08:30	05/22/25 13:48	PB168125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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:	CDM Smith	Date Collected:	05/19/25
Project:	South River WM Replacement	Date Received:	05/19/25
Client Sample ID:	PIBLK-PD088583.D	SDG No.:	Q2100
Lab Sample ID:	I.BLK-PD088583.D	Matrix:	WATER
Analytical Method:	8081B	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
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						
319-84-6	alpha-BHC	0.0039	U	0.0039	0.050	ug/L
319-85-7	beta-BHC	0.0049	U	0.0049	0.050	ug/L
319-86-8	delta-BHC	0.011	U	0.011	0.050	ug/L
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
309-00-2	Aldrin	0.0036	U	0.0036	0.050	ug/L
1024-57-3	Heptachlor epoxide	0.0096	U	0.0096	0.050	ug/L
959-98-8	Endosulfan I	0.0031	U	0.0031	0.050	ug/L
60-57-1	Dieldrin	0.0036	U	0.0036	0.050	ug/L
72-55-9	4,4-DDE	0.0037	U	0.0037	0.050	ug/L
72-20-8	Endrin	0.0032	U	0.0032	0.050	ug/L
33213-65-9	Endosulfan II	0.0079	U	0.0079	0.050	ug/L
72-54-8	4,4-DDD	0.0071	U	0.0071	0.050	ug/L
1031-07-8	Endosulfan Sulfate	0.0037	U	0.0037	0.050	ug/L
50-29-3	4,4-DDT	0.0035	U	0.0035	0.050	ug/L
72-43-5	Methoxychlor	0.011	U	0.011	0.050	ug/L
53494-70-5	Endrin ketone	0.0093	U	0.0093	0.050	ug/L
7421-93-4	Endrin aldehyde	0.011	U	0.011	0.050	ug/L
5103-71-9	alpha-Chlordane	0.0035	U	0.0035	0.050	ug/L
5103-74-2	gamma-Chlordane	0.0039	U	0.0039	0.050	ug/L
8001-35-2	Toxaphene	0.17	U	0.17	1.00	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	18.4		43 - 140	92%	SPK: 20
877-09-8	Tetrachloro-m-xylene	16.9		77 - 126	84%	SPK: 20

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Report of Analysis

Client:	CDM Smith	Date Collected:	05/19/25
Project:	South River WM Replacement	Date Received:	05/19/25
Client Sample ID:	PIBLK-PD088583.D	SDG No.:	Q2100
Lab Sample ID:	I.BLK-PD088583.D	Matrix:	WATER
Analytical Method:	8081B	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
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

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:	CDM Smith	Date Collected:	05/22/25
Project:	South River WM Replacement	Date Received:	05/22/25
Client Sample ID:	PIBLK-PD088719.D	SDG No.:	Q2100
Lab Sample ID:	I.BLK-PD088719.D	Matrix:	WATER
Analytical Method:	8081B	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD088719.D	1		05/22/25	pd052325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
319-84-6	alpha-BHC	0.0039	U	0.0039	0.050	ug/L
319-85-7	beta-BHC	0.0049	U	0.0049	0.050	ug/L
319-86-8	delta-BHC	0.011	U	0.011	0.050	ug/L
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
309-00-2	Aldrin	0.0036	U	0.0036	0.050	ug/L
1024-57-3	Heptachlor epoxide	0.0096	U	0.0096	0.050	ug/L
959-98-8	Endosulfan I	0.0031	U	0.0031	0.050	ug/L
60-57-1	Dieldrin	0.0036	U	0.0036	0.050	ug/L
72-55-9	4,4-DDE	0.0037	U	0.0037	0.050	ug/L
72-20-8	Endrin	0.0032	U	0.0032	0.050	ug/L
33213-65-9	Endosulfan II	0.0079	U	0.0079	0.050	ug/L
72-54-8	4,4-DDD	0.0071	U	0.0071	0.050	ug/L
1031-07-8	Endosulfan Sulfate	0.0037	U	0.0037	0.050	ug/L
50-29-3	4,4-DDT	0.0035	U	0.0035	0.050	ug/L
72-43-5	Methoxychlor	0.011	U	0.011	0.050	ug/L
53494-70-5	Endrin ketone	0.0093	U	0.0093	0.050	ug/L
7421-93-4	Endrin aldehyde	0.011	U	0.011	0.050	ug/L
5103-71-9	alpha-Chlordane	0.0035	U	0.0035	0.050	ug/L
5103-74-2	gamma-Chlordane	0.0039	U	0.0039	0.050	ug/L
8001-35-2	Toxaphene	0.17	U	0.17	1.00	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	19.7		43 - 140	98%	SPK: 20
877-09-8	Tetrachloro-m-xylene	19.8		77 - 126	99%	SPK: 20

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Report of Analysis

Client:	CDM Smith	Date Collected:	05/22/25
Project:	South River WM Replacement	Date Received:	05/22/25
Client Sample ID:	PIBLK-PD088719.D	SDG No.:	Q2100
Lab Sample ID:	I.BLK-PD088719.D	Matrix:	WATER
Analytical Method:	8081B	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD088719.D	1		05/22/25	pd052325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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:	CDM Smith	Date Collected:	05/22/25
Project:	South River WM Replacement	Date Received:	05/22/25
Client Sample ID:	PIBLK-PD088732.D	SDG No.:	Q2100
Lab Sample ID:	I.BLK-PD088732.D	Matrix:	WATER
Analytical Method:	8081B	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD088732.D	1		05/22/25	pd052325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
319-84-6	alpha-BHC	0.0039	U	0.0039	0.050	ug/L
319-85-7	beta-BHC	0.0049	U	0.0049	0.050	ug/L
319-86-8	delta-BHC	0.011	U	0.011	0.050	ug/L
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
309-00-2	Aldrin	0.0036	U	0.0036	0.050	ug/L
1024-57-3	Heptachlor epoxide	0.0096	U	0.0096	0.050	ug/L
959-98-8	Endosulfan I	0.0031	U	0.0031	0.050	ug/L
60-57-1	Dieldrin	0.0036	U	0.0036	0.050	ug/L
72-55-9	4,4-DDE	0.0037	U	0.0037	0.050	ug/L
72-20-8	Endrin	0.0032	U	0.0032	0.050	ug/L
33213-65-9	Endosulfan II	0.0079	U	0.0079	0.050	ug/L
72-54-8	4,4-DDD	0.0071	U	0.0071	0.050	ug/L
1031-07-8	Endosulfan Sulfate	0.0037	U	0.0037	0.050	ug/L
50-29-3	4,4-DDT	0.0035	U	0.0035	0.050	ug/L
72-43-5	Methoxychlor	0.011	U	0.011	0.050	ug/L
53494-70-5	Endrin ketone	0.0093	U	0.0093	0.050	ug/L
7421-93-4	Endrin aldehyde	0.011	U	0.011	0.050	ug/L
5103-71-9	alpha-Chlordane	0.0035	U	0.0035	0.050	ug/L
5103-74-2	gamma-Chlordane	0.0039	U	0.0039	0.050	ug/L
8001-35-2	Toxaphene	0.17	U	0.17	1.00	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	17.1		43 - 140	85%	SPK: 20
877-09-8	Tetrachloro-m-xylene	20.2		77 - 126	101%	SPK: 20

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Report of Analysis

Client:	CDM Smith	Date Collected:	05/22/25
Project:	South River WM Replacement	Date Received:	05/22/25
Client Sample ID:	PIBLK-PD088732.D	SDG No.:	Q2100
Lab Sample ID:	I.BLK-PD088732.D	Matrix:	WATER
Analytical Method:	8081B	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD088732.D	1		05/22/25	pd052325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	PB168125BS	SDG No.:	Q2100
Lab Sample ID:	PB168125BS	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	100 Decanted:
Sample Wt/Vol:	30.03 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD088722.D	1	05/22/25 08:30	05/22/25 14:23	PB168125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
319-84-6	alpha-BHC	16.9		0.13	1.70	ug/kg
319-85-7	beta-BHC	16.6		0.18	1.70	ug/kg
319-86-8	delta-BHC	16.9		0.39	1.70	ug/kg
58-89-9	gamma-BHC (Lindane)	17.0		0.14	1.70	ug/kg
76-44-8	Heptachlor	16.8		0.12	1.70	ug/kg
309-00-2	Aldrin	17.3		0.12	1.70	ug/kg
1024-57-3	Heptachlor epoxide	17.1		0.19	1.70	ug/kg
959-98-8	Endosulfan I	17.2		0.14	1.70	ug/kg
60-57-1	Dieldrin	17.3		0.14	1.70	ug/kg
72-55-9	4,4-DDE	17.1		0.14	1.70	ug/kg
72-20-8	Endrin	16.8		0.14	1.70	ug/kg
33213-65-9	Endosulfan II	17.0		0.29	1.70	ug/kg
72-54-8	4,4-DDD	20.0		0.15	1.70	ug/kg
1031-07-8	Endosulfan Sulfate	16.5		0.13	1.70	ug/kg
50-29-3	4,4-DDT	13.4		0.14	1.70	ug/kg
72-43-5	Methoxychlor	13.6		0.37	1.70	ug/kg
53494-70-5	Endrin ketone	16.9		0.19	1.70	ug/kg
7421-93-4	Endrin aldehyde	16.4		0.37	1.70	ug/kg
5103-71-9	alpha-Chlordane	17.2		0.12	1.70	ug/kg
5103-74-2	gamma-Chlordane	17.3		0.15	1.70	ug/kg
8001-35-2	Toxaphene	5.40	U	5.40	33.0	ug/kg
SURROGATES						
2051-24-3	Decachlorobiphenyl	22.1		20 - 144	110%	SPK: 20
877-09-8	Tetrachloro-m-xylene	23.0		19 - 148	115%	SPK: 20

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Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	PB168125BS	SDG No.:	Q2100
Lab Sample ID:	PB168125BS	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	100 Decanted:
Sample Wt/Vol:	30.03 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD088722.D	1	05/22/25 08:30	05/22/25 14:23	PB168125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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
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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:	CDM Smith	Date Collected:	05/20/25
Project:	South River WM Replacement	Date Received:	05/20/25
Client Sample ID:	TP-45MS	SDG No.:	Q2100
Lab Sample ID:	Q2100-04MS	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	76.2 Decanted:
Sample Wt/Vol:	30.04 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD088727.D	1	05/22/25 08:30	05/22/25 15:46	PB168125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
319-84-6	alpha-BHC	22.6		0.17	2.20	ug/kg
319-85-7	beta-BHC	22.2		0.24	2.20	ug/kg
319-86-8	delta-BHC	24.1		0.51	2.20	ug/kg
58-89-9	gamma-BHC (Lindane)	22.4		0.18	2.20	ug/kg
76-44-8	Heptachlor	21.7		0.16	2.20	ug/kg
309-00-2	Aldrin	22.5		0.16	2.20	ug/kg
1024-57-3	Heptachlor epoxide	22.1		0.25	2.20	ug/kg
959-98-8	Endosulfan I	21.9		0.18	2.20	ug/kg
60-57-1	Dieldrin	22.0		0.18	2.20	ug/kg
72-55-9	4,4-DDE	21.9		0.18	2.20	ug/kg
72-20-8	Endrin	21.1		0.18	2.20	ug/kg
33213-65-9	Endosulfan II	21.3		0.38	2.20	ug/kg
72-54-8	4,4-DDD	24.3		0.20	2.20	ug/kg
1031-07-8	Endosulfan Sulfate	20.8		0.17	2.20	ug/kg
50-29-3	4,4-DDT	17.0		0.18	2.20	ug/kg
72-43-5	Methoxychlor	16.9		0.48	2.20	ug/kg
53494-70-5	Endrin ketone	21.3		0.25	2.20	ug/kg
7421-93-4	Endrin aldehyde	20.9		0.48	2.20	ug/kg
5103-71-9	alpha-Chlordane	21.9		0.16	2.20	ug/kg
5103-74-2	gamma-Chlordane	22.0		0.20	2.20	ug/kg
8001-35-2	Toxaphene	7.10	U	7.10	43.2	ug/kg
SURROGATES						
2051-24-3	Decachlorobiphenyl	20.4		20 - 144	102%	SPK: 20
877-09-8	Tetrachloro-m-xylene	21.4		19 - 148	107%	SPK: 20

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Report of Analysis

Client:	CDM Smith	Date Collected:	05/20/25
Project:	South River WM Replacement	Date Received:	05/20/25
Client Sample ID:	TP-45MS	SDG No.:	Q2100
Lab Sample ID:	Q2100-04MS	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	76.2 Decanted:
Sample Wt/Vol:	30.04 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD088727.D	1	05/22/25 08:30	05/22/25 15:46	PB168125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
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E = Value Exceeds Calibration Range
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Report of Analysis

Client:	CDM Smith	Date Collected:	05/20/25
Project:	South River WM Replacement	Date Received:	05/20/25
Client Sample ID:	TP-45MSD	SDG No.:	Q2100
Lab Sample ID:	Q2100-04MSD	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	76.2 Decanted:
Sample Wt/Vol:	30.02 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD088728.D	1	05/22/25 08:30	05/22/25 15:59	PB168125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
319-84-6	alpha-BHC	23.0		0.17	2.20	ug/kg
319-85-7	beta-BHC	22.7		0.24	2.20	ug/kg
319-86-8	delta-BHC	24.7		0.51	2.20	ug/kg
58-89-9	gamma-BHC (Lindane)	23.0		0.18	2.20	ug/kg
76-44-8	Heptachlor	22.2		0.16	2.20	ug/kg
309-00-2	Aldrin	23.0		0.16	2.20	ug/kg
1024-57-3	Heptachlor epoxide	22.6		0.25	2.20	ug/kg
959-98-8	Endosulfan I	22.5		0.18	2.20	ug/kg
60-57-1	Dieldrin	22.5		0.18	2.20	ug/kg
72-55-9	4,4-DDE	22.6		0.18	2.20	ug/kg
72-20-8	Endrin	21.9		0.18	2.20	ug/kg
33213-65-9	Endosulfan II	22.0		0.38	2.20	ug/kg
72-54-8	4,4-DDD	24.8		0.20	2.20	ug/kg
1031-07-8	Endosulfan Sulfate	21.9		0.17	2.20	ug/kg
50-29-3	4,4-DDT	18.4		0.18	2.20	ug/kg
72-43-5	Methoxychlor	17.9		0.49	2.20	ug/kg
53494-70-5	Endrin ketone	22.9		0.25	2.20	ug/kg
7421-93-4	Endrin aldehyde	21.5		0.49	2.20	ug/kg
5103-71-9	alpha-Chlordane	22.5		0.16	2.20	ug/kg
5103-74-2	gamma-Chlordane	22.5		0.20	2.20	ug/kg
8001-35-2	Toxaphene	7.10	U	7.10	43.3	ug/kg
SURROGATES						
2051-24-3	Decachlorobiphenyl	20.4		20 - 144	102%	SPK: 20
877-09-8	Tetrachloro-m-xylene	21.6		19 - 148	108%	SPK: 20

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Report of Analysis

Client:	CDM Smith	Date Collected:	05/20/25
Project:	South River WM Replacement	Date Received:	05/20/25
Client Sample ID:	TP-45MSD	SDG No.:	Q2100
Lab Sample ID:	Q2100-04MSD	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	76.2 Decanted:
Sample Wt/Vol:	30.02 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD088728.D	1	05/22/25 08:30	05/22/25 15:59	PB168125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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
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CALIBRATION SUMMARY

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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RETENTION TIMES OF INITIAL CALIBRATION

Contract: CAMP02

Lab Code: CHEM **Case No.:** Q2100 **SAS No.:** Q2100 **SDG NO.:** Q2100

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
4,4'-DDD	6.71	6.71	6.71	6.71	6.71	6.71	6.61	6.81
4,4'-DDE	6.20	6.20	6.20	6.20	6.20	6.20	6.10	6.30
4,4'-DDT	7.02	7.02	7.02	7.02	7.02	7.02	6.92	7.12
Aldrin	5.27	5.27	5.27	5.27	5.27	5.27	5.17	5.37
alpha-BHC	4.00	4.00	4.00	4.00	4.00	4.00	3.90	4.10
alpha-Chlordane	6.03	6.03	6.03	6.03	6.03	6.03	5.93	6.13
beta-BHC	4.52	4.52	4.52	4.52	4.52	4.52	4.42	4.62
Decachlorobiphenyl	9.08	9.08	9.08	9.08	9.08	9.08	8.98	9.18
delta-BHC	4.77	4.77	4.77	4.77	4.76	4.76	4.66	4.86
Dieldrin	6.35	6.35	6.35	6.35	6.35	6.35	6.25	6.45
Endosulfan I	6.08	6.08	6.08	6.08	6.08	6.08	5.98	6.18
Endosulfan II	6.79	6.79	6.79	6.79	6.79	6.79	6.69	6.89
Endosulfan sulfate	7.15	7.15	7.15	7.15	7.15	7.15	7.05	7.25
Endrin	6.58	6.58	6.58	6.58	6.58	6.58	6.48	6.68
Endrin aldehyde	6.92	6.92	6.92	6.92	6.92	6.92	6.82	7.02
Endrin ketone	7.63	7.63	7.63	7.63	7.63	7.63	7.53	7.73
gamma-BHC (Lindane)	4.33	4.33	4.33	4.33	4.33	4.33	4.23	4.43
gamma-Chlordane	5.95	5.95	5.95	5.95	5.95	5.95	5.85	6.05
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: CAMP02

Lab Code: CHEM **Case No.:** Q2100 **SAS No.:** Q2100 **SDG NO.:** Q2100

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
4,4'-DDD	5.93	5.93	5.93	5.93	5.93	5.93	5.83	6.03
4,4'-DDE	5.38	5.38	5.38	5.38	5.38	5.38	5.28	5.48
4,4'-DDT	6.19	6.19	6.19	6.19	6.19	6.19	6.09	6.29
Aldrin	4.37	4.37	4.37	4.37	4.37	4.37	4.27	4.47
alpha-BHC	3.39	3.39	3.39	3.40	3.39	3.39	3.29	3.49
alpha-Chlordane	5.19	5.19	5.19	5.19	5.19	5.19	5.09	5.29
beta-BHC	4.03	4.03	4.03	4.03	4.03	4.03	3.93	4.13
Decachlorobiphenyl	8.08	8.08	8.08	8.08	8.08	8.08	7.98	8.18
delta-BHC	4.26	4.26	4.26	4.26	4.26	4.26	4.16	4.36
Dieldrin	5.52	5.52	5.52	5.52	5.52	5.52	5.42	5.62
Endosulfan I	5.25	5.25	5.25	5.25	5.25	5.25	5.15	5.35
Endosulfan II	6.08	6.08	6.08	6.08	6.08	6.08	5.98	6.18
Endosulfan sulfate	6.49	6.49	6.49	6.49	6.49	6.49	6.39	6.59
Endrin	5.79	5.79	5.79	5.79	5.79	5.79	5.69	5.89
Endrin aldehyde	6.26	6.26	6.26	6.26	6.26	6.26	6.16	6.36
Endrin ketone	6.99	7.00	7.00	7.00	7.00	6.99	6.89	7.09
gamma-BHC (Lindane)	3.73	3.73	3.73	3.73	3.73	3.73	3.63	3.83
gamma-Chlordane	5.13	5.13	5.13	5.13	5.13	5.13	5.03	5.23
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: CAMP02

Lab Code: CHEM **Case No.:** Q2100 **SAS No.:** Q2100 **SDG NO.:** Q2100

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
4,4'-DDD	2914090000	2799000000	2779180000	2710870000	2722370000	2785100000	3
4,4'-DDE	3774980000	3611130000	3587930000	3472130000	3500730000	3589380000	3
4,4'-DDT	3259380000	3125810000	3123770000	3049470000	3051770000	3122040000	3
Aldrin	4596320000	4382320000	4371060000	4250500000	4372370000	4394520000	3
alpha-BHC	5243840000	4927900000	4847290000	4558490000	4305310000	4776570000	8
alpha-Chlordane	4076620000	3927960000	3953820000	3921900000	4151070000	4006270000	3
beta-BHC	1766090000	1717900000	1760360000	1812740000	1958690000	1803160000	5
Decachlorobiphenyl	3171750000	3154190000	3328750000	3504210000	3952750000	3422330000	10
delta-BHC	4581340000	4301280000	4227770000	4018060000	4002280000	4226150000	6
Dieldrin	4168640000	3995190000	3987890000	3911690000	3995230000	4011730000	2
Endosulfan I	3801350000	3677400000	3708760000	3706130000	3920970000	3762920000	3
Endosulfan II	3424800000	3321140000	3361490000	3381320000	3729210000	3443590000	5
Endosulfan sulfate	3185730000	3096410000	3144570000	3175940000	3412700000	3203070000	4
Endrin	3544350000	3400630000	3391880000	3322590000	3416420000	3415180000	2
Endrin aldehyde	2503120000	2458460000	2511530000	2573510000	2826400000	2574600000	6
Endrin ketone	3433620000	3341030000	3388420000	3397950000	3554790000	3423160000	2
gamma-BHC (Lindane)	4951240000	4675430000	4617130000	4438320000	4331460000	4602720000	5
gamma-Chlordane	4124290000	3949610000	3951400000	3878720000	4040730000	3988950000	2
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: CAMP02

Lab Code: CHEM **Case No.:** Q2100 **SAS No.:** Q2100 **SDG NO.:** Q2100

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
4,4'-DDD	16063600000	16170400000	16726900000	17873500000	20127100000	17392300000	10
4,4'-DDE	19308600000	19422500000	20046800000	21437600000	24298000000	20902700000	10
4,4'-DDT	17279500000	17314500000	17782900000	18728300000	19581500000	18137300000	6
Aldrin	20429300000	20424000000	21187100000	22461000000	25147900000	21929900000	9
alpha-BHC	22814100000	22470400000	23262900000	24245000000	26726300000	23903700000	7
alpha-Chlordane	19049500000	19079200000	19770800000	21135500000	24089000000	20624800000	10
beta-BHC	8864520000	8872030000	9302460000	10011600000	11658900000	9741890000	12
Decachlorobiphenyl	16504300000	16618500000	17317300000	18707400000	22133900000	18256300000	13
delta-BHC	21126000000	20875000000	21573100000	22598000000	25298500000	22294100000	8
Dieldrin	19383000000	19454300000	20211700000	21634500000	24536100000	21043900000	10
Endosulfan I	17297300000	17455200000	18206500000	19567700000	22365500000	18978400000	11
Endosulfan II	16670500000	16849700000	17581300000	18878300000	21629100000	18321800000	11
Endosulfan sulfate	16098100000	16280100000	16999000000	18309500000	21092700000	17755900000	12
Endrin	17557800000	17708400000	18459500000	19851800000	22842600000	19284000000	11
Endrin aldehyde	12431500000	12681500000	13251800000	14445500000	16833500000	13928800000	13
Endrin ketone	17469300000	17778800000	18605700000	20062800000	22820400000	19347400000	11
gamma-BHC (Lindane)	21035300000	20781600000	21450400000	22534500000	25026800000	22165700000	8
gamma-Chlordane	19824600000	19800200000	20463700000	21793000000	24778500000	21332000000	10
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: CAMP02

Lab Code: CHEM **Case No.:** Q2100 **SAS No.:** Q2100 **SDG NO.:** Q2100

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
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: CAMP02

Lab Code: CHEM **Case No.:** Q2100 **SAS No.:** Q2100 **SDG NO.:** Q2100

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
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: CAMP02

Lab Code: CHEM **Case No.:** Q2100 **SAS No.:** Q2100 **SDG NO.:** Q2100

Continuing Calib Date: 05/22/2025 **Initial Calibration Date(s):** 05/19/2025 05/19/2025

Continuing Calib Time: 11:40 **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	9.08	9.08	8.98	9.18	0.00
Tetrachloro-m-xylene	3.55	3.55	3.45	3.65	0.00
alpha-BHC	4.00	4.00	3.90	4.10	0.00
beta-BHC	4.52	4.52	4.42	4.62	0.00
delta-BHC	4.77	4.77	4.67	4.87	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
Aldrin	5.27	5.27	5.17	5.37	0.00
Heptachlor epoxide	5.69	5.69	5.59	5.79	0.00
Endosulfan I	6.08	6.08	5.98	6.18	0.00
Dieldrin	6.35	6.35	6.25	6.45	0.00
4,4'-DDE	6.20	6.20	6.10	6.30	0.00
Endrin	6.58	6.58	6.48	6.68	0.01
Endosulfan II	6.79	6.79	6.69	6.89	0.00
4,4'-DDD	6.71	6.71	6.61	6.81	0.00
Endosulfan sulfate	7.15	7.15	7.05	7.25	0.00
4,4'-DDT	7.02	7.02	6.92	7.12	0.00
Methoxychlor	7.50	7.50	7.40	7.60	0.01
Endrin ketone	7.63	7.63	7.53	7.73	0.00
Endrin aldehyde	6.92	6.92	6.82	7.02	0.00
alpha-Chlordane	6.03	6.03	5.93	6.13	0.00
gamma-Chlordane	5.95	5.95	5.85	6.05	0.00

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CALIBRATION VERIFICATION SUMMARY

Contract: CAMP02

Lab Code: CHEM **Case No.:** Q2100 **SAS No.:** Q2100 **SDG NO.:** Q2100

Continuing Calib Date: 05/22/2025 **Initial Calibration Date(s):** 05/19/2025 05/19/2025

Continuing Calib Time: 11:40 **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
alpha-BHC	3.39	3.39	3.29	3.49	0.00
beta-BHC	4.03	4.03	3.93	4.13	0.00
delta-BHC	4.26	4.26	4.16	4.36	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
Aldrin	4.37	4.37	4.27	4.47	0.00
Heptachlor epoxide	4.87	4.88	4.78	4.98	0.01
Endosulfan I	5.25	5.25	5.15	5.35	0.00
Dieldrin	5.51	5.52	5.42	5.62	0.01
4,4'-DDE	5.38	5.38	5.28	5.48	0.00
Endrin	5.79	5.79	5.69	5.89	0.00
Endosulfan II	6.08	6.08	5.98	6.18	0.00
4,4'-DDD	5.93	5.93	5.83	6.03	0.00
Endosulfan sulfate	6.48	6.49	6.39	6.59	0.01
4,4'-DDT	6.19	6.19	6.09	6.29	0.01
Methoxychlor	6.76	6.76	6.66	6.86	0.00
Endrin ketone	6.99	7.00	6.90	7.10	0.01
Endrin aldehyde	6.26	6.26	6.16	6.36	0.00
alpha-Chlordane	5.19	5.19	5.09	5.29	0.00
gamma-Chlordane	5.13	5.13	5.03	5.23	0.00

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CALIBRATION VERIFICATION SUMMARY

Contract: CAMP02

Lab Code: CHEM **Case No.:** Q2100 **SAS No.:** Q2100 **SDG NO.:** Q2100

GC Column: ZB-MR1 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 05/19/2025 05/19/2025

Client Sample No.: CCAL01 **Date Analyzed:** 05/22/2025

Lab Sample No.: PSTDCCC050 **Data File :** PD088720.D **Time Analyzed:** 11:40

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
4,4'-DDD	6.707	6.608	6.808	56.410	50.000	12.8
4,4'-DDE	6.198	6.098	6.298	50.920	50.000	1.8
4,4'-DDT	7.023	6.923	7.123	42.850	50.000	-14.3
Aldrin	5.273	5.173	5.373	53.560	50.000	7.1
alpha-BHC	4.001	3.900	4.100	55.320	50.000	10.6
alpha-Chlordane	6.029	5.930	6.130	51.970	50.000	3.9
beta-BHC	4.517	4.417	4.617	52.540	50.000	5.1
Decachlorobiphenyl	9.077	8.977	9.177	49.910	50.000	-0.2
delta-BHC	4.766	4.666	4.866	57.170	50.000	14.3
Dieldrin	6.349	6.250	6.450	51.790	50.000	3.6
Endosulfan I	6.076	5.977	6.177	51.680	50.000	3.4
Endosulfan II	6.789	6.688	6.888	50.870	50.000	1.7
Endosulfan sulfate	7.152	7.052	7.252	49.160	50.000	-1.7
Endrin	6.575	6.477	6.677	49.640	50.000	-0.7
Endrin aldehyde	6.916	6.817	7.017	46.320	50.000	-7.4
Endrin ketone	7.632	7.533	7.733	49.560	50.000	-0.9
gamma-BHC (Lindane)	4.332	4.232	4.432	54.390	50.000	8.8
gamma-Chlordane	5.948	5.848	6.048	52.300	50.000	4.6
Heptachlor	4.931	4.832	5.032	52.660	50.000	5.3
Heptachlor epoxide	5.693	5.593	5.793	52.220	50.000	4.4
Methoxychlor	7.495	7.395	7.595	42.510	50.000	-15.0
Tetrachloro-m-xylene	3.551	3.451	3.651	54.790	50.000	9.6

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CALIBRATION VERIFICATION SUMMARY

Contract: CAMP02

Lab Code: CHEM **Case No.:** Q2100 **SAS No.:** Q2100 **SDG NO.:** Q2100

GC Column: ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 05/19/2025 05/19/2025

Client Sample No.: CCAL01 **Date Analyzed:** 05/22/2025

Lab Sample No.: PSTDCCC050 **Data File :** PD088720.D **Time Analyzed:** 11:40

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
4,4'-DDD	5.931	5.833	6.033	50.560	50.000	1.1
4,4'-DDE	5.375	5.278	5.478	48.410	50.000	-3.2
4,4'-DDT	6.185	6.087	6.287	41.670	50.000	-16.7
Aldrin	4.369	4.271	4.471	51.080	50.000	2.2
alpha-BHC	3.394	3.294	3.494	52.800	50.000	5.6
alpha-Chlordane	5.192	5.094	5.294	49.090	50.000	-1.8
beta-BHC	4.026	3.927	4.127	50.280	50.000	0.6
Decachlorobiphenyl	8.074	7.977	8.177	45.050	50.000	-9.9
delta-BHC	4.263	4.164	4.364	51.650	50.000	3.3
Dieldrin	5.514	5.416	5.616	49.050	50.000	-1.9
Endosulfan I	5.248	5.150	5.350	44.660	50.000	-10.7
Endosulfan II	6.082	5.984	6.184	47.290	50.000	-5.4
Endosulfan sulfate	6.484	6.386	6.586	46.140	50.000	-7.7
Endrin	5.790	5.692	5.892	48.040	50.000	-3.9
Endrin aldehyde	6.260	6.162	6.362	44.580	50.000	-10.8
Endrin ketone	6.993	6.895	7.095	45.570	50.000	-8.9
gamma-BHC (Lindane)	3.731	3.631	3.831	51.950	50.000	3.9
gamma-Chlordane	5.127	5.029	5.229	49.630	50.000	-0.7
Heptachlor	4.084	3.985	4.185	49.830	50.000	-0.3
Heptachlor epoxide	4.874	4.775	4.975	49.900	50.000	-0.2
Methoxychlor	6.756	6.658	6.858	40.980	50.000	-18.0
Tetrachloro-m-xylene	2.882	2.782	2.982	53.980	50.000	8.0

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CALIBRATION VERIFICATION SUMMARY

Contract: CAMP02

Lab Code: CHEM **Case No.:** Q2100 **SAS No.:** Q2100 **SDG NO.:** Q2100

Continuing Calib Date: 05/22/2025 **Initial Calibration Date(s):** 05/19/2025 05/19/2025

Continuing Calib Time: 17:39 **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	9.08	9.08	8.98	9.18	0.00
Tetrachloro-m-xylene	3.55	3.55	3.45	3.65	0.00
alpha-BHC	4.00	4.00	3.90	4.10	0.00
beta-BHC	4.52	4.52	4.42	4.62	0.00
delta-BHC	4.77	4.77	4.67	4.87	0.01
gamma-BHC (Lindane)	4.33	4.33	4.23	4.43	0.00
Heptachlor	4.93	4.93	4.83	5.03	0.00
Aldrin	5.27	5.27	5.17	5.37	0.00
Heptachlor epoxide	5.69	5.69	5.59	5.79	0.00
Endosulfan I	6.08	6.08	5.98	6.18	0.00
Dieldrin	6.35	6.35	6.25	6.45	0.00
4,4'-DDE	6.20	6.20	6.10	6.30	0.00
Endrin	6.58	6.58	6.48	6.68	0.01
Endosulfan II	6.79	6.79	6.69	6.89	0.00
4,4'-DDD	6.71	6.71	6.61	6.81	0.00
Endosulfan sulfate	7.15	7.15	7.05	7.25	0.00
4,4'-DDT	7.02	7.02	6.92	7.12	0.00
Methoxychlor	7.50	7.50	7.40	7.60	0.00
Endrin ketone	7.63	7.63	7.53	7.73	0.00
Endrin aldehyde	6.92	6.92	6.82	7.02	0.00
alpha-Chlordane	6.03	6.03	5.93	6.13	0.00
gamma-Chlordane	5.95	5.95	5.85	6.05	0.00

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CALIBRATION VERIFICATION SUMMARY

Contract: CAMP02

Lab Code: CHEM **Case No.:** Q2100 **SAS No.:** Q2100 **SDG NO.:** Q2100

Continuing Calib Date: 05/22/2025 **Initial Calibration Date(s):** 05/19/2025 05/19/2025

Continuing Calib Time: 17:39 **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
alpha-BHC	3.39	3.39	3.29	3.49	0.00
beta-BHC	4.03	4.03	3.93	4.13	0.00
delta-BHC	4.26	4.26	4.16	4.36	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
Aldrin	4.37	4.37	4.27	4.47	0.00
Heptachlor epoxide	4.87	4.88	4.78	4.98	0.01
Endosulfan I	5.25	5.25	5.15	5.35	0.00
Dieldrin	5.51	5.52	5.42	5.62	0.01
4,4'-DDE	5.38	5.38	5.28	5.48	0.00
Endrin	5.79	5.79	5.69	5.89	0.00
Endosulfan II	6.08	6.08	5.98	6.18	0.00
4,4'-DDD	5.93	5.93	5.83	6.03	0.00
Endosulfan sulfate	6.48	6.49	6.39	6.59	0.01
4,4'-DDT	6.19	6.19	6.09	6.29	0.00
Methoxychlor	6.76	6.76	6.66	6.86	0.00
Endrin ketone	6.99	7.00	6.90	7.10	0.01
Endrin aldehyde	6.26	6.26	6.16	6.36	0.00
alpha-Chlordane	5.19	5.19	5.09	5.29	0.00
gamma-Chlordane	5.13	5.13	5.03	5.23	0.00

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CALIBRATION VERIFICATION SUMMARY

Contract: CAMP02

Lab Code: CHEM **Case No.:** Q2100 **SAS No.:** Q2100 **SDG NO.:** Q2100

GC Column: ZB-MR1 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 05/19/2025 05/19/2025

Client Sample No.: CCAL02 **Date Analyzed:** 05/22/2025

Lab Sample No.: PSTDCCC050 **Data File :** PD088733.D **Time Analyzed:** 17:39

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
4,4'-DDD	6.707	6.608	6.808	56.660	50.000	13.3
4,4'-DDE	6.198	6.098	6.298	50.690	50.000	1.4
4,4'-DDT	7.023	6.923	7.123	42.780	50.000	-14.4
Aldrin	5.273	5.173	5.373	57.200	50.000	14.4
alpha-BHC	3.999	3.900	4.100	59.800	50.000	19.6
alpha-Chlordane	6.029	5.930	6.130	53.120	50.000	6.2
beta-BHC	4.516	4.417	4.617	56.100	50.000	12.2
Decachlorobiphenyl	9.078	8.977	9.177	51.560	50.000	3.1
delta-BHC	4.765	4.666	4.866	61.300	50.000	22.6
Dieldrin	6.349	6.250	6.450	52.170	50.000	4.3
Endosulfan I	6.076	5.977	6.177	52.930	50.000	5.9
Endosulfan II	6.788	6.688	6.888	50.260	50.000	0.5
Endosulfan sulfate	7.152	7.052	7.252	47.820	50.000	-4.4
Endrin	6.575	6.477	6.677	51.430	50.000	2.9
Endrin aldehyde	6.917	6.817	7.017	48.240	50.000	-3.5
Endrin ketone	7.632	7.533	7.733	49.160	50.000	-1.7
gamma-BHC (Lindane)	4.331	4.232	4.432	58.430	50.000	16.9
gamma-Chlordane	5.947	5.848	6.048	53.490	50.000	7.0
Heptachlor	4.931	4.832	5.032	56.620	50.000	13.2
Heptachlor epoxide	5.692	5.593	5.793	54.000	50.000	8.0
Methoxychlor	7.496	7.395	7.595	42.370	50.000	-15.3
Tetrachloro-m-xylene	3.551	3.451	3.651	58.280	50.000	16.6

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CALIBRATION VERIFICATION SUMMARY

Contract: CAMP02

Lab Code: CHEM **Case No.:** Q2100 **SAS No.:** Q2100 **SDG NO.:** Q2100

GC Column: ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 05/19/2025 05/19/2025

Client Sample No.: CCAL02 **Date Analyzed:** 05/22/2025

Lab Sample No.: PSTDCCC050 **Data File :** PD088733.D **Time Analyzed:** 17:39

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
4,4'-DDD	5.931	5.833	6.033	51.260	50.000	2.5
4,4'-DDE	5.375	5.278	5.478	50.960	50.000	1.9
4,4'-DDT	6.186	6.087	6.287	41.630	50.000	-16.7
Aldrin	4.368	4.271	4.471	54.460	50.000	8.9
alpha-BHC	3.394	3.294	3.494	56.540	50.000	13.1
alpha-Chlordane	5.191	5.094	5.294	51.670	50.000	3.3
beta-BHC	4.026	3.927	4.127	52.610	50.000	5.2
Decachlorobiphenyl	8.074	7.977	8.177	40.400	50.000	-19.2
delta-BHC	4.263	4.164	4.364	54.610	50.000	9.2
Dieldrin	5.514	5.416	5.616	50.340	50.000	0.7
Endosulfan I	5.247	5.150	5.350	44.260	50.000	-11.5
Endosulfan II	6.081	5.984	6.184	48.550	50.000	-2.9
Endosulfan sulfate	6.484	6.386	6.586	46.280	50.000	-7.4
Endrin	5.791	5.692	5.892	51.630	50.000	3.3
Endrin aldehyde	6.260	6.162	6.362	45.820	50.000	-8.4
Endrin ketone	6.992	6.895	7.095	45.000	50.000	-10.0
gamma-BHC (Lindane)	3.730	3.631	3.831	55.800	50.000	11.6
gamma-Chlordane	5.127	5.029	5.229	52.540	50.000	5.1
Heptachlor	4.084	3.985	4.185	53.360	50.000	6.7
Heptachlor epoxide	4.873	4.775	4.975	52.690	50.000	5.4
Methoxychlor	6.756	6.658	6.858	40.340	50.000	-19.3
Tetrachloro-m-xylene	2.881	2.782	2.982	56.290	50.000	12.6

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PESTICIDE CALIBRATION VERIFICATION SUMMARY

Contract: CAMP02

Lab Code: CHEM **Case No.:** Q2100 **SAS No.:** Q2100 **SDG NO.:** Q2100

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: CAMP02

Lab Code: CHEM **Case No.:** Q2100 **SAS No.:** Q2100 **SDG NO.:** Q2100

GC Column: ZB-MR1 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 05/19/2025 05/19/2025

Client Sample No. (PEM): PEM - PD088716.D **Date Analyzed:** 05/22/2025

Lab Sample No.(PEM): PEM **Time Analyzed:** 10:12

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	9.082	8.980	9.180	21.750	20.000	8.8
Tetrachloro-m-xylene	3.556	3.510	3.610	21.790	20.000	9.0
alpha-BHC	4.005	3.950	4.060	9.940	10.000	-0.6
beta-BHC	4.521	4.470	4.570	11.330	10.000	13.3
gamma-BHC (Lindane)	4.336	4.290	4.390	10.140	10.000	1.4
Endrin	6.581	6.510	6.650	50.640	50.000	1.3
4,4'-DDT	7.029	6.960	7.100	83.460	100.000	-16.5
Methoxychlor	7.500	7.430	7.570	198.300	250.000	-20.7

GC Column: ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 05/19/2025 05/19/2025

Client Sample No. (PEM): PEM - PD088716.D **Date Analyzed:** 05/22/2025

Lab Sample No.(PEM): PEM **Time Analyzed:** 10:12

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	8.076	7.980	8.180	20.130	20.000	0.7
Tetrachloro-m-xylene	2.881	2.830	2.930	22.240	20.000	11.2
alpha-BHC	3.394	3.340	3.440	11.420	10.000	14.2
beta-BHC	4.026	3.980	4.080	11.630	10.000	16.3
gamma-BHC (Lindane)	3.731	3.680	3.780	11.410	10.000	14.1
Endrin	5.791	5.720	5.860	48.230	50.000	-3.5
4,4'-DDT	6.187	6.120	6.260	79.120	100.000	-20.9
Methoxychlor	6.758	6.690	6.830	166.080	250.000	-33.6

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Analytical Sequence

Client: CDM Smith **SDG No.:** Q2100

Project: South River WM Replacement **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
PEM	PEM	05/22/2025	10:12	PD088716.D	9.08	3.56
I.BLK	I.BLK	05/22/2025	11:26	PD088719.D	9.08	3.55
PSTDCCC050	PSTDCCC050	05/22/2025	11:40	PD088720.D	9.08	3.55
PB168125BL	PB168125BL	05/22/2025	13:48	PD088721.D	9.09	3.56
PB168125BS	PB168125BS	05/22/2025	14:23	PD088722.D	9.09	3.56
TP-16	Q2100-01	05/22/2025	14:51	PD088723.D	9.09	3.56
TP-22	Q2100-02	05/22/2025	15:05	PD088724.D	9.08	3.55
TP-21	Q2100-03	05/22/2025	15:18	PD088725.D	9.08	3.55
TP-45	Q2100-04	05/22/2025	15:32	PD088726.D	9.08	3.55
TP-45MS	Q2100-04MS	05/22/2025	15:46	PD088727.D	9.08	3.55
TP-45MSD	Q2100-04MSD	05/22/2025	15:59	PD088728.D	9.08	3.55
I.BLK	I.BLK	05/22/2025	16:54	PD088732.D	9.08	3.55
PSTDCCC050	PSTDCCC050	05/22/2025	17:39	PD088733.D	9.08	3.55

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Analytical Sequence

Client: CDM Smith **SDG No.:** Q2100

Project: South River WM Replacement **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
PEM	PEM	05/22/2025	10:12	PD088716.D	8.08	2.88
I.BLK	I.BLK	05/22/2025	11:26	PD088719.D	8.08	2.88
PSTDCCC050	PSTDCCC050	05/22/2025	11:40	PD088720.D	8.07	2.88
PB168125BL	PB168125BL	05/22/2025	13:48	PD088721.D	8.08	2.88
PB168125BS	PB168125BS	05/22/2025	14:23	PD088722.D	8.08	2.88
TP-16	Q2100-01	05/22/2025	14:51	PD088723.D	8.08	2.88
TP-22	Q2100-02	05/22/2025	15:05	PD088724.D	8.07	2.88
TP-21	Q2100-03	05/22/2025	15:18	PD088725.D	8.08	2.88
TP-45	Q2100-04	05/22/2025	15:32	PD088726.D	8.08	2.88
TP-45MS	Q2100-04MS	05/22/2025	15:46	PD088727.D	8.08	2.88
TP-45MSD	Q2100-04MSD	05/22/2025	15:59	PD088728.D	8.08	2.88
I.BLK	I.BLK	05/22/2025	16:54	PD088732.D	8.08	2.88
PSTDCCC050	PSTDCCC050	05/22/2025	17:39	PD088733.D	8.07	2.88

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COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.
PB168125BS

Contract: CAMP02

Lab Code: CHEM **Case No.:** Q2100 **SAS No.:** Q2100 **SDG NO.:** Q2100

Lab Sample ID: PB168125BS **Date(s) Analyzed:** 05/22/2025 05/22/2025

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
Endosulfan II	1	6.80	6.75	6.85	17.0	4.2
	2	6.08	6.03	6.13	16.3	
4,4'-DDD	1	6.71	6.66	6.76	20.0	11.6
	2	5.93	5.88	5.98	17.8	
4,4'-DDT	1	7.03	6.98	7.08	13.2	1.5
	2	6.19	6.14	6.24	13.4	
Endrin aldehyde	1	6.92	6.87	6.97	16.4	3.7
	2	6.26	6.21	6.31	15.8	
Endosulfan sulfate	1	7.16	7.11	7.21	16.5	5
	2	6.49	6.44	6.54	15.7	
Methoxychlor	1	7.50	7.45	7.55	13.6	0.7
	2	6.76	6.71	6.81	13.5	
Endrin ketone	1	7.64	7.59	7.69	16.9	5.5
	2	6.99	6.94	7.04	16.0	
alpha-BHC	1	4.01	3.96	4.06	16.9	1.2
	2	3.39	3.34	3.44	16.7	
gamma-BHC (Lindane)	1	4.34	4.29	4.39	17.0	1.8
	2	3.73	3.68	3.78	16.7	
Heptachlor	1	4.94	4.89	4.99	16.8	4.3
	2	4.08	4.03	4.13	16.1	
Aldrin	1	5.28	5.23	5.33	17.3	3.5
	2	4.37	4.32	4.42	16.7	
beta-BHC	1	4.52	4.47	4.57	16.6	0
	2	4.03	3.98	4.08	16.6	
delta-BHC	1	4.77	4.72	4.82	16.9	6.1
	2	4.26	4.21	4.31	15.9	
Heptachlor epoxide	1	5.70	5.65	5.75	17.1	3
	2	4.88	4.83	4.93	16.6	

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COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.
PB168125BS

Contract: CAMP02

Lab Code: CHEM **Case No.:** Q2100 **SAS No.:** Q2100 **SDG NO.:** Q2100

Lab Sample ID: PB168125BS **Date(s) Analyzed:** 05/22/2025 05/22/2025

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
Endosulfan I	1	6.08	6.03	6.13	17.2	13.7
	2	5.25	5.20	5.30	15.0	
gamma-Chlordane	1	5.96	5.91	6.01	17.3	4.1
	2	5.13	5.08	5.18	16.6	
alpha-Chlordane	1	6.04	5.99	6.09	17.2	4.2
	2	5.19	5.14	5.24	16.5	
4,4'-DDE	1	6.21	6.16	6.26	17.1	3.6
	2	5.38	5.33	5.43	16.5	
Dieldrin	1	6.36	6.31	6.41	17.3	4.1
	2	5.52	5.47	5.57	16.6	
Endrin	1	6.59	6.54	6.64	16.8	4.9
	2	5.79	5.74	5.84	16.0	

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COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

TP-21

Contract: CAMP02

Lab Code: CHEM **Case No.:** Q2100 **SAS No.:** Q2100 **SDG NO.:** Q2100

Lab Sample ID: Q2100-03 **Date(s) Analyzed:** 05/22/2025 05/22/2025

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
alpha-Chlordane	1	6.03	5.98	6.08	0.34	48.8
	2	5.19	5.14	5.24	0.20	

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COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

TP-45MS

Contract: CAMP02

Lab Code: CHEM **Case No.:** Q2100 **SAS No.:** Q2100 **SDG NO.:** Q2100

Lab Sample ID: Q2100-04MS **Date(s) Analyzed:** 05/22/2025 05/22/2025

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
Endosulfan II	1	6.79	6.74	6.84	21.3	3.3
	2	6.08	6.03	6.13	20.6	
4,4'-DDD	1	6.71	6.66	6.76	24.3	10.8
	2	5.93	5.88	5.98	21.8	
4,4'-DDT	1	7.02	6.97	7.07	17.0	1.8
	2	6.19	6.14	6.24	16.7	
Endrin aldehyde	1	6.92	6.87	6.97	20.9	4.9
	2	6.26	6.21	6.31	19.9	
Endosulfan sulfate	1	7.15	7.10	7.20	20.8	3.4
	2	6.48	6.43	6.53	20.1	
Methoxychlor	1	7.50	7.45	7.55	16.8	0.6
	2	6.76	6.71	6.81	16.9	
Endrin ketone	1	7.63	7.58	7.68	21.3	5.3
	2	6.99	6.94	7.04	20.2	
alpha-BHC	1	4.00	3.95	4.05	22.6	2.2
	2	3.39	3.34	3.44	22.1	
gamma-BHC (Lindane)	1	4.33	4.28	4.38	22.4	2.7
	2	3.73	3.68	3.78	21.8	
Heptachlor	1	4.93	4.88	4.98	21.7	4.2
	2	4.08	4.03	4.13	20.8	
Aldrin	1	5.27	5.22	5.32	22.5	3.2
	2	4.37	4.32	4.42	21.8	
beta-BHC	1	4.52	4.47	4.57	21.6	2.7
	2	4.03	3.98	4.08	22.2	
delta-BHC	1	4.77	4.72	4.82	24.1	9.6
	2	4.26	4.21	4.31	21.9	
Heptachlor epoxide	1	5.69	5.64	5.74	22.1	3.7
	2	4.87	4.82	4.92	21.3	

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COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

TP-45MS

Contract: CAMP02

Lab Code: CHEM **Case No.:** Q2100 **SAS No.:** Q2100 **SDG NO.:** Q2100

Lab Sample ID: Q2100-04MS **Date(s) Analyzed:** 05/22/2025 05/22/2025

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
Endosulfan I	1	6.08	6.03	6.13	21.9	3.7
	2	5.25	5.20	5.30	21.1	
gamma-Chlordane	1	5.95	5.90	6.00	22.0	3.2
	2	5.13	5.08	5.18	21.3	
alpha-Chlordane	1	6.03	5.98	6.08	21.9	2.8
	2	5.19	5.14	5.24	21.3	
4,4'-DDE	1	6.20	6.15	6.25	21.9	4.7
	2	5.38	5.33	5.43	20.9	
Dieldrin	1	6.35	6.30	6.40	22.0	4.2
	2	5.51	5.46	5.56	21.1	
Endrin	1	6.58	6.53	6.63	21.1	3.9
	2	5.79	5.74	5.84	20.3	

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COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

TP-45MSD

Contract: CAMP02

Lab Code: CHEM **Case No.:** Q2100 **SAS No.:** Q2100 **SDG NO.:** Q2100

Lab Sample ID: Q2100-04MSD **Date(s) Analyzed:** 05/22/2025 05/22/2025

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
Endosulfan II	1	6.79	6.74	6.84	22.0	3.7
	2	6.08	6.03	6.13	21.2	
4,4'-DDD	1	6.71	6.66	6.76	24.8	12.4
	2	5.93	5.88	5.98	21.9	
4,4'-DDT	1	7.02	6.97	7.07	18.4	1.6
	2	6.19	6.14	6.24	18.1	
Endrin aldehyde	1	6.92	6.87	6.97	21.5	3.8
	2	6.26	6.21	6.31	20.7	
Endosulfan sulfate	1	7.15	7.10	7.20	21.9	5.6
	2	6.48	6.43	6.53	20.7	
Methoxychlor	1	7.50	7.45	7.55	17.9	3.4
	2	6.76	6.71	6.81	17.3	
Endrin ketone	1	7.63	7.58	7.68	21.9	4.5
	2	6.99	6.94	7.04	22.9	
alpha-BHC	1	4.00	3.95	4.05	23.0	2.2
	2	3.39	3.34	3.44	22.5	
gamma-BHC (Lindane)	1	4.33	4.28	4.38	23.0	3.1
	2	3.73	3.68	3.78	22.3	
Heptachlor	1	4.93	4.88	4.98	22.2	4.1
	2	4.08	4.03	4.13	21.3	
Aldrin	1	5.27	5.22	5.32	23.0	4
	2	4.37	4.32	4.42	22.1	
beta-BHC	1	4.52	4.47	4.57	22.2	2.2
	2	4.03	3.98	4.08	22.7	
delta-BHC	1	4.77	4.72	4.82	24.7	10.2
	2	4.26	4.21	4.31	22.3	
Heptachlor epoxide	1	5.69	5.64	5.74	22.6	3.6
	2	4.87	4.82	4.92	21.8	

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COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

TP-45MSD

Contract: CAMP02

Lab Code: CHEM **Case No.:** Q2100 **SAS No.:** Q2100 **SDG NO.:** Q2100

Lab Sample ID: Q2100-04MSD **Date(s) Analyzed:** 05/22/2025 05/22/2025

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
Endosulfan I	1	6.08	6.03	6.13	22.5	4.5
	2	5.25	5.20	5.30	21.5	
gamma-Chlordane	1	5.95	5.90	6.00	22.5	3.2
	2	5.13	5.08	5.18	21.8	
alpha-Chlordane	1	6.03	5.98	6.08	22.5	3.6
	2	5.19	5.14	5.24	21.7	
4,4'-DDE	1	6.20	6.15	6.25	22.6	6.4
	2	5.38	5.33	5.43	21.2	
Dieldrin	1	6.35	6.30	6.40	22.5	3.6
	2	5.51	5.46	5.56	21.7	
Endrin	1	6.58	6.53	6.63	21.9	4.7
	2	5.79	5.74	5.84	20.9	

SAMPLE RAW DATA

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD052325\
Data File : PD088723.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 May 2025 14:51
Operator : AR\AJ
Sample : Q2100-01
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
TP-16

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 22 22:43:44 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...	3.558	2.880	37488939	266.6E6	17.326	17.623
28)	SA Decachlor...	9.087	8.078	44815911	221.2E6	13.095	12.117
	Target Compounds						

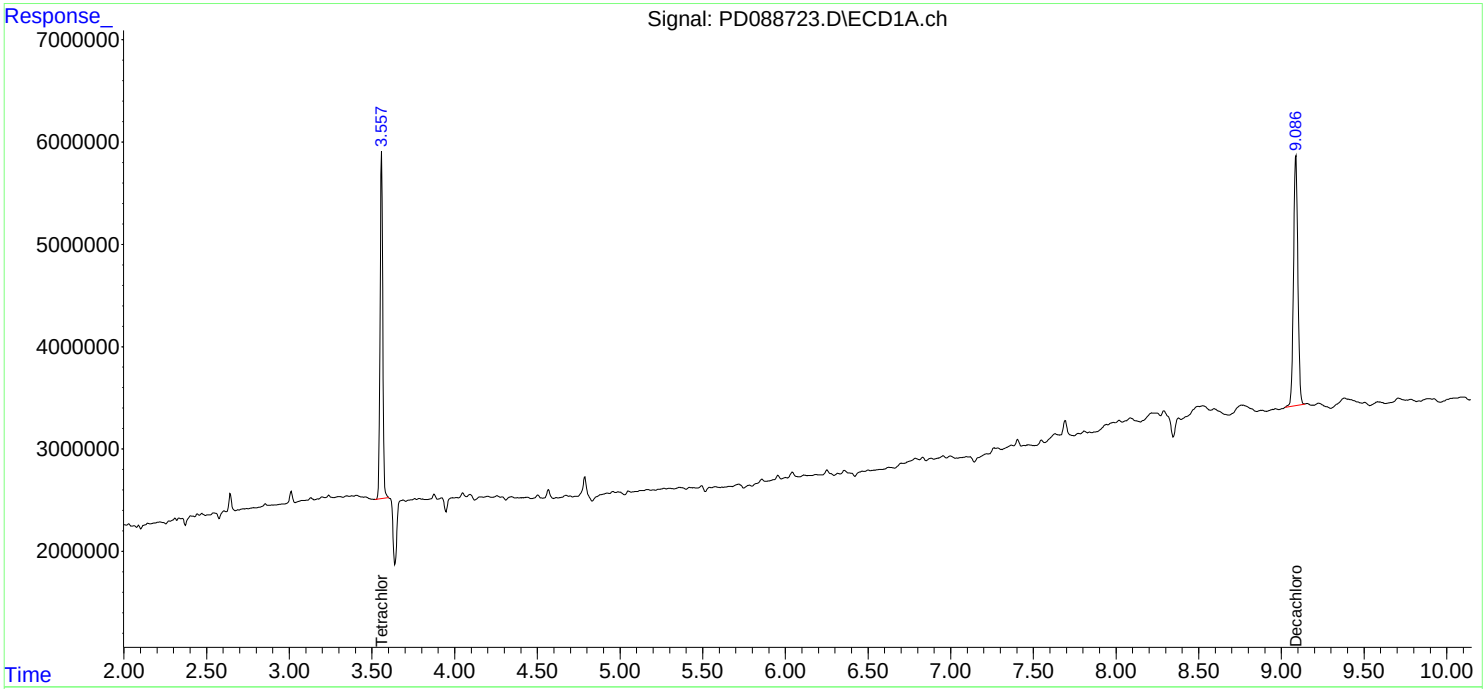
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

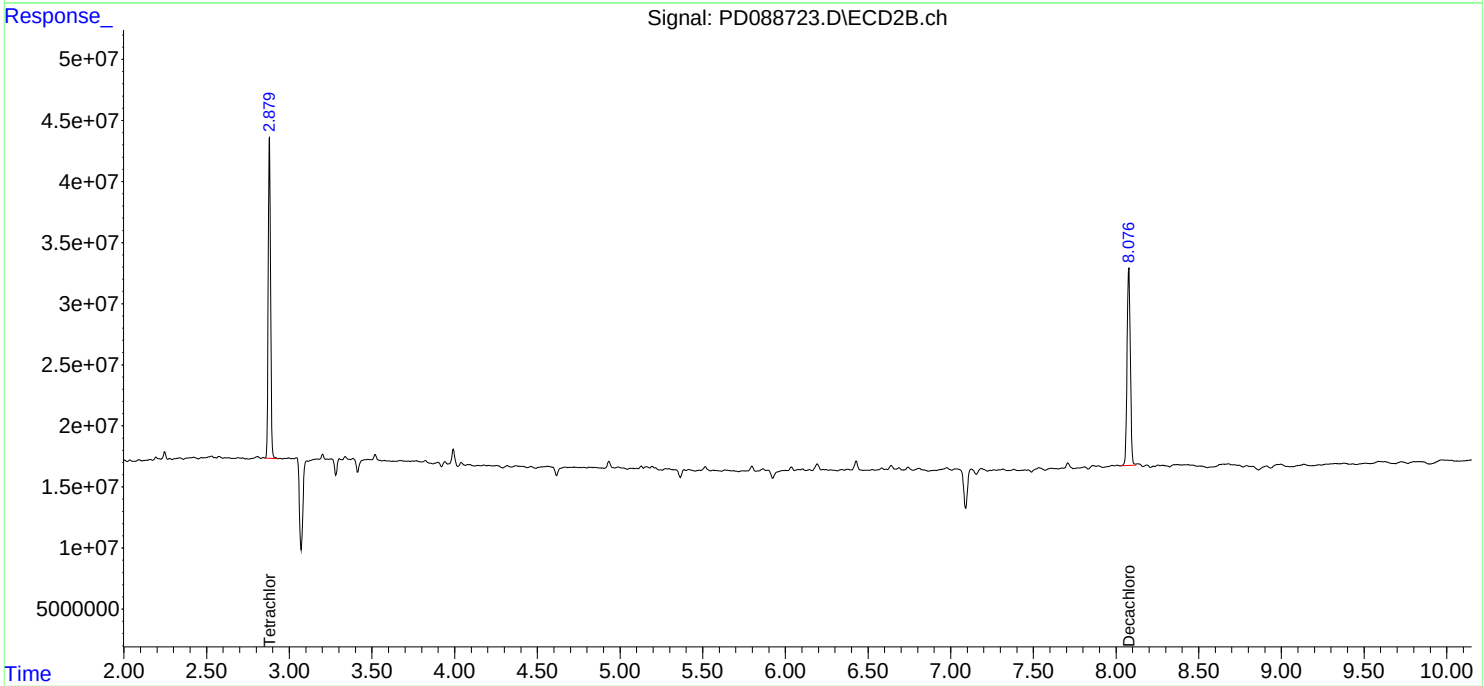
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD052325\
Data File : PD088723.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 May 2025 14:51
Operator : AR\AJ
Sample : Q2100-01
Misc :
ALS Vial : 8 Sample Multiplier: 1

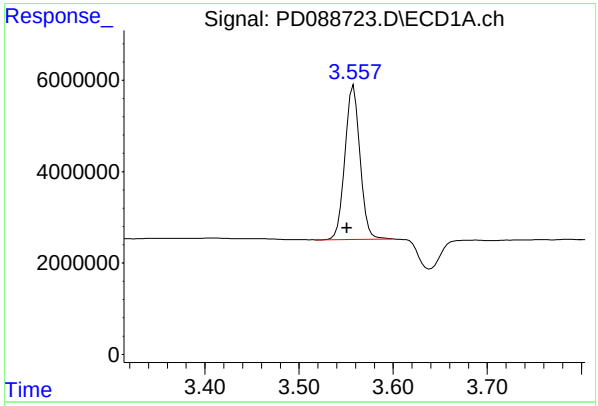
Instrument :
ECD_D
ClientSampleId :
TP-16

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 22 22:43:44 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



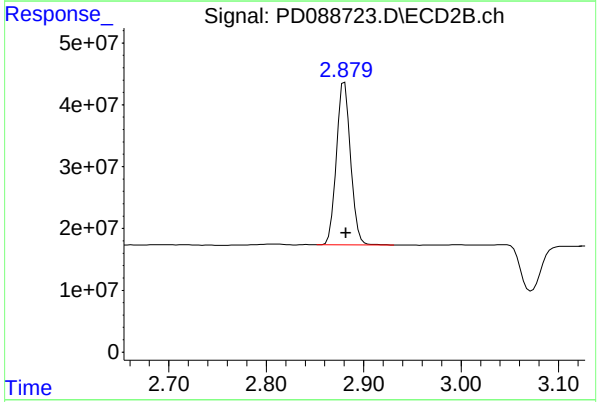




#1 Tetrachloro-m-xylene

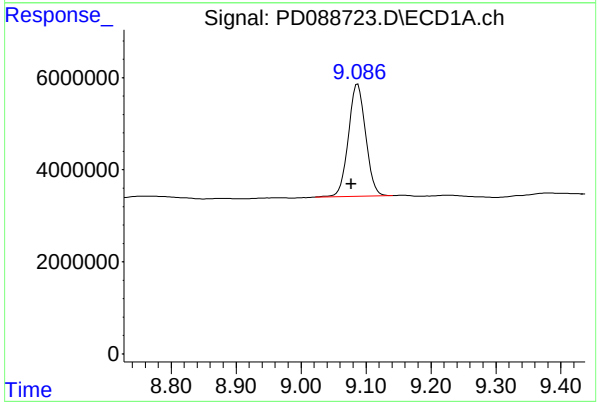
R.T.: 3.558 min
Delta R.T.: 0.007 min
Response: 37488939
Conc: 17.33 ng/ml

Instrument :
ECD_D
ClientSampleId :
TP-16



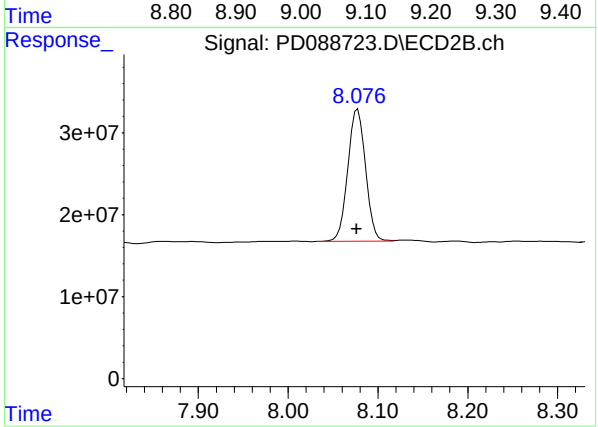
#1 Tetrachloro-m-xylene

R.T.: 2.880 min
Delta R.T.: -0.001 min
Response: 266583135
Conc: 17.62 ng/ml



#28 Decachlorobiphenyl

R.T.: 9.087 min
Delta R.T.: 0.010 min
Response: 44815911
Conc: 13.10 ng/ml



#28 Decachlorobiphenyl

R.T.: 8.078 min
Delta R.T.: 0.001 min
Response: 221219629
Conc: 12.12 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD052325\
Data File : PD088724.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 May 2025 15:05
Operator : AR\AJ
Sample : Q2100-02
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
TP-22

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 22 22:44:10 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...	3.551	2.881	38371043	275.6E6	17.734	18.219
28)	SA Decachlor...	9.079	8.074	53079721	258.0E6	15.510	14.130
	Target Compounds						

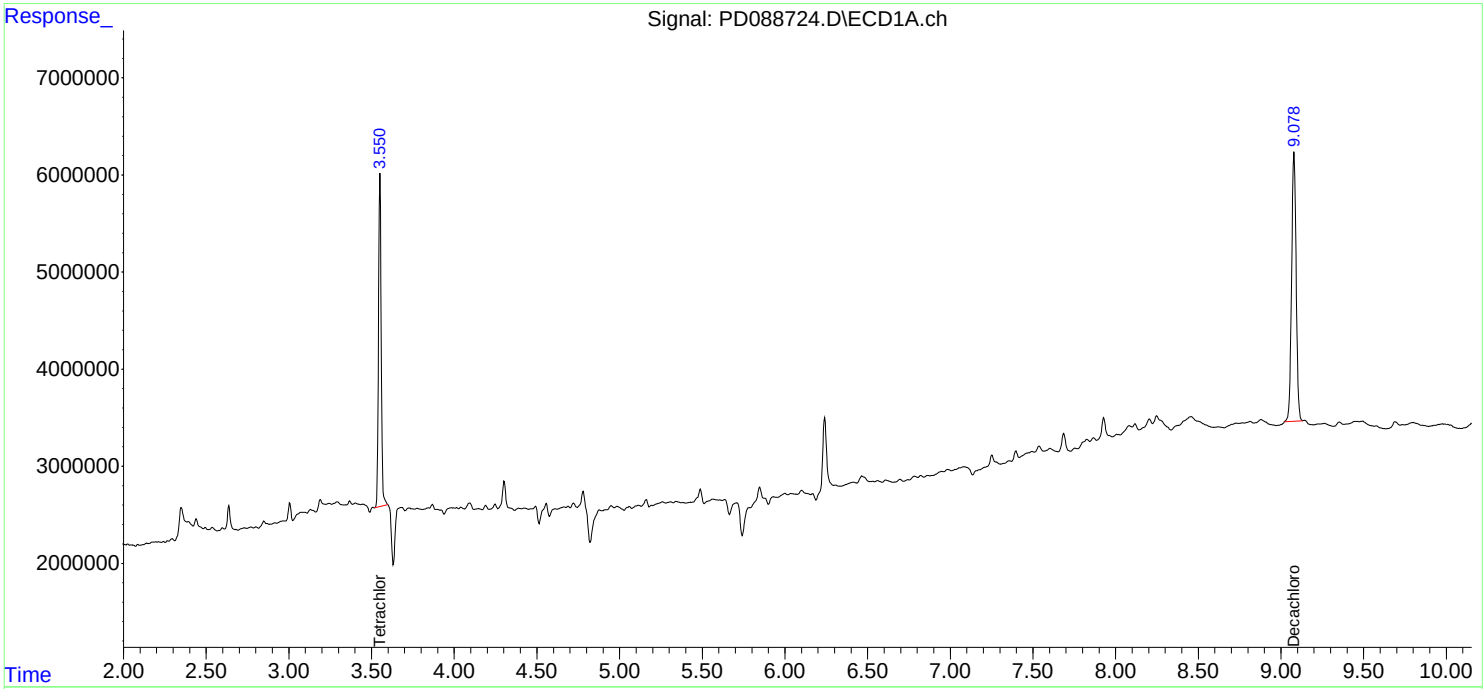
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

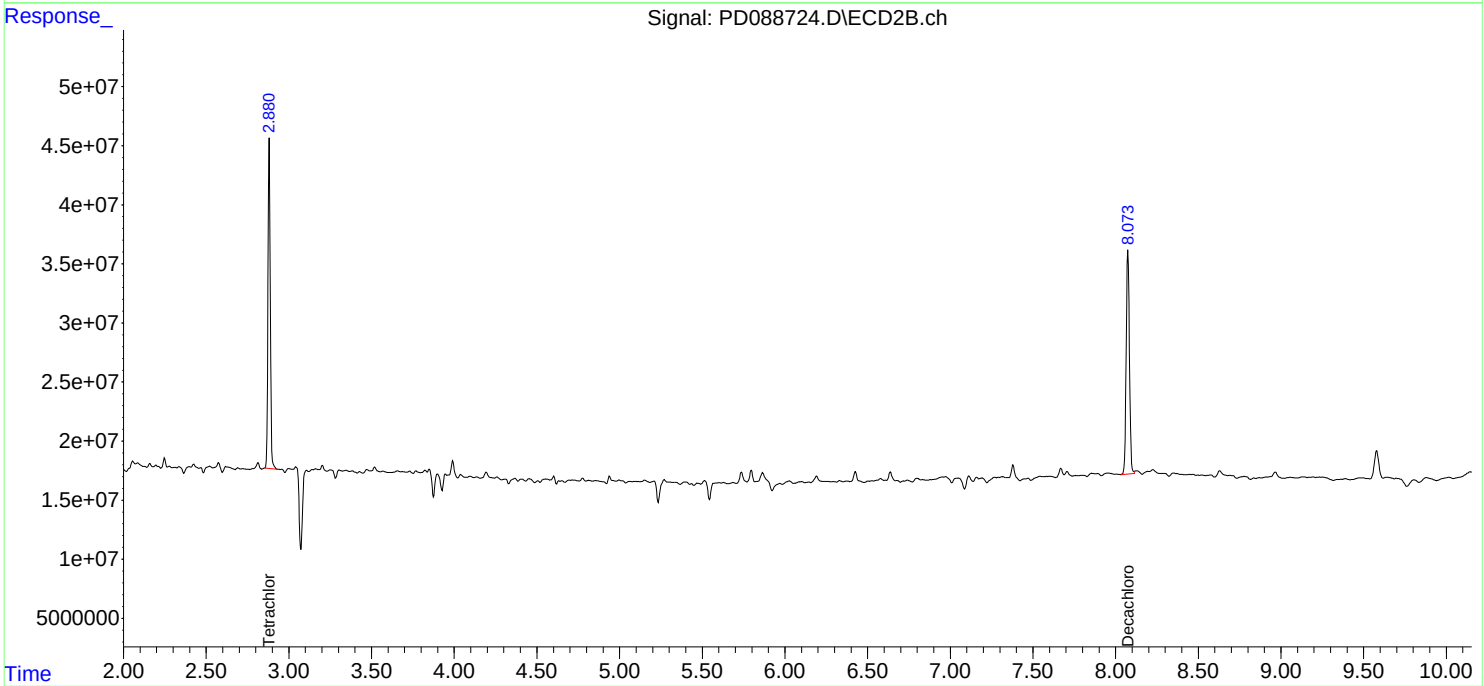
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD052325\
Data File : PD088724.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 May 2025 15:05
Operator : AR\AJ
Sample : Q2100-02
Misc :
ALS Vial : 9 Sample Multiplier: 1

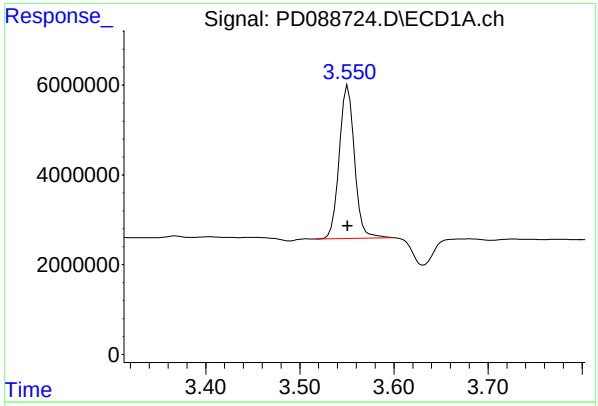
Instrument :
ECD_D
ClientSampleId :
TP-22

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 22 22:44:10 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



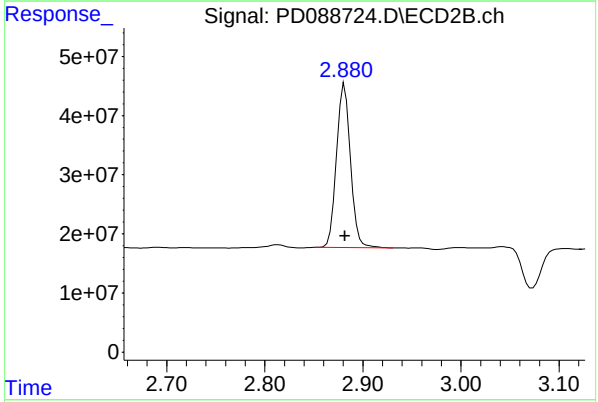




#1 Tetrachloro-m-xylene

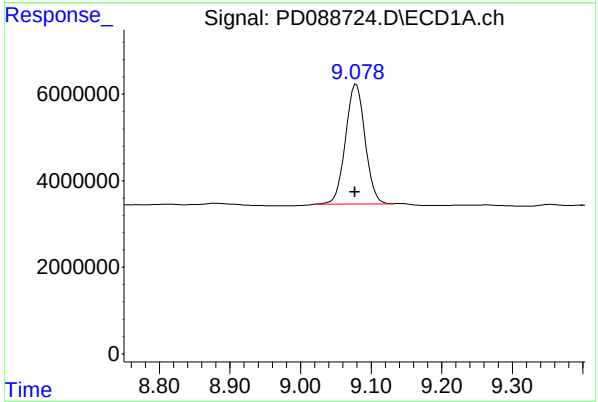
R.T.: 3.551 min
Delta R.T.: 0.000 min
Response: 38371043
Conc: 17.73 ng/ml

Instrument :
ECD_D
ClientSampleId :
TP-22



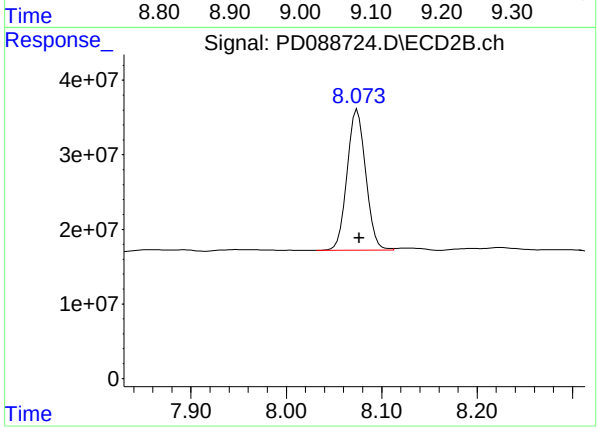
#1 Tetrachloro-m-xylene

R.T.: 2.881 min
Delta R.T.: 0.000 min
Response: 275601497
Conc: 18.22 ng/ml



#28 Decachlorobiphenyl

R.T.: 9.079 min
Delta R.T.: 0.002 min
Response: 53079721
Conc: 15.51 ng/ml



#28 Decachlorobiphenyl

R.T.: 8.074 min
Delta R.T.: -0.002 min
Response: 257963432
Conc: 14.13 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD052325\
Data File : PD088725.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 May 2025 15:18
Operator : AR\AJ
Sample : Q2100-03
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
TP-21

Manual Integrations APPROVED
Reviewed By :Abdul Mirza 05/23/2025
Supervised By :mohammad ahmed 05/28/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 22 22:44:35 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...	3.551	2.881	27947734	202.5E6	12.916	13.389
28)	SA Decachlor...	9.078	8.075	41809763	201.3E6	12.217	11.025
	Target Compounds						
10)	B gamma-Chl...	5.946	5.126	1674123	8352104	0.420m	0.392m
11)	B alpha-Chl...	6.031	5.190	3149090	9853152	0.786m	0.478m#

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

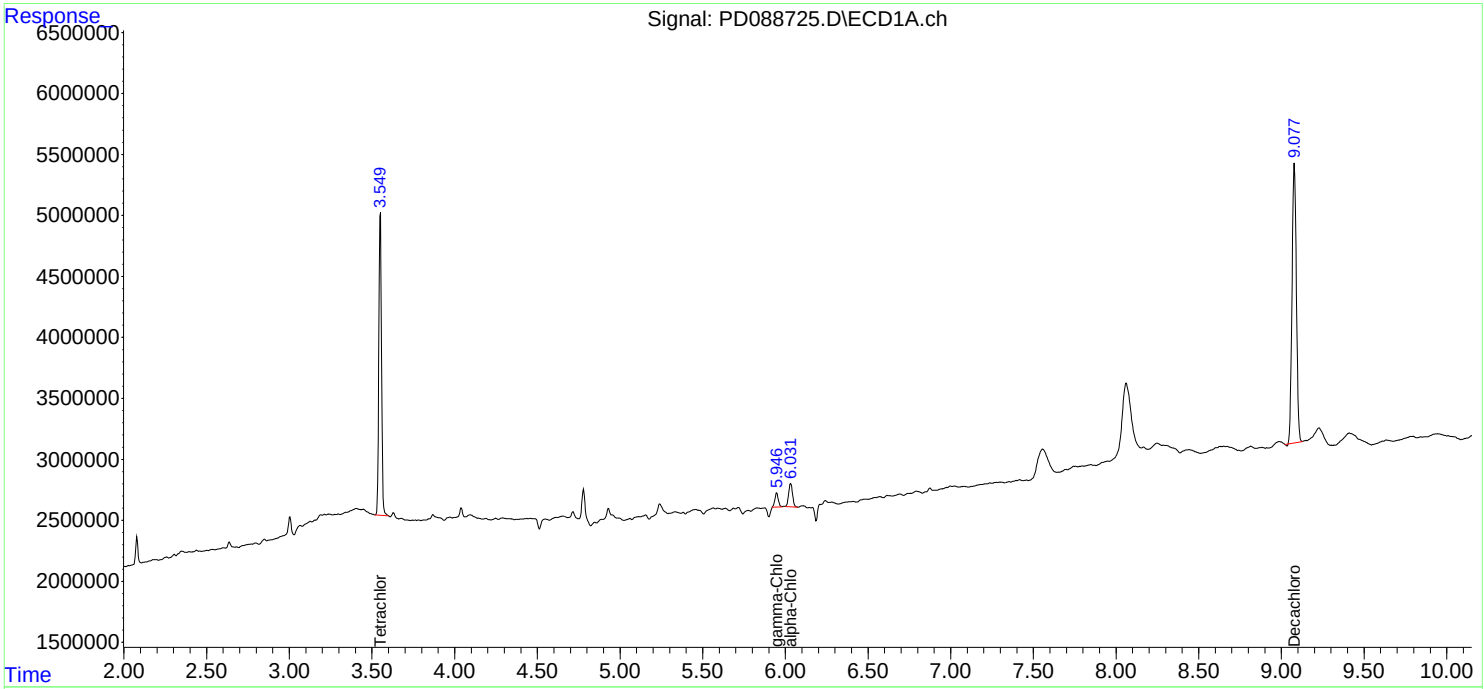
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD052325\
Data File : PD088725.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 May 2025 15:18
Operator : AR\AJ
Sample : Q2100-03
Misc :
ALS Vial : 10 Sample Multiplier: 1

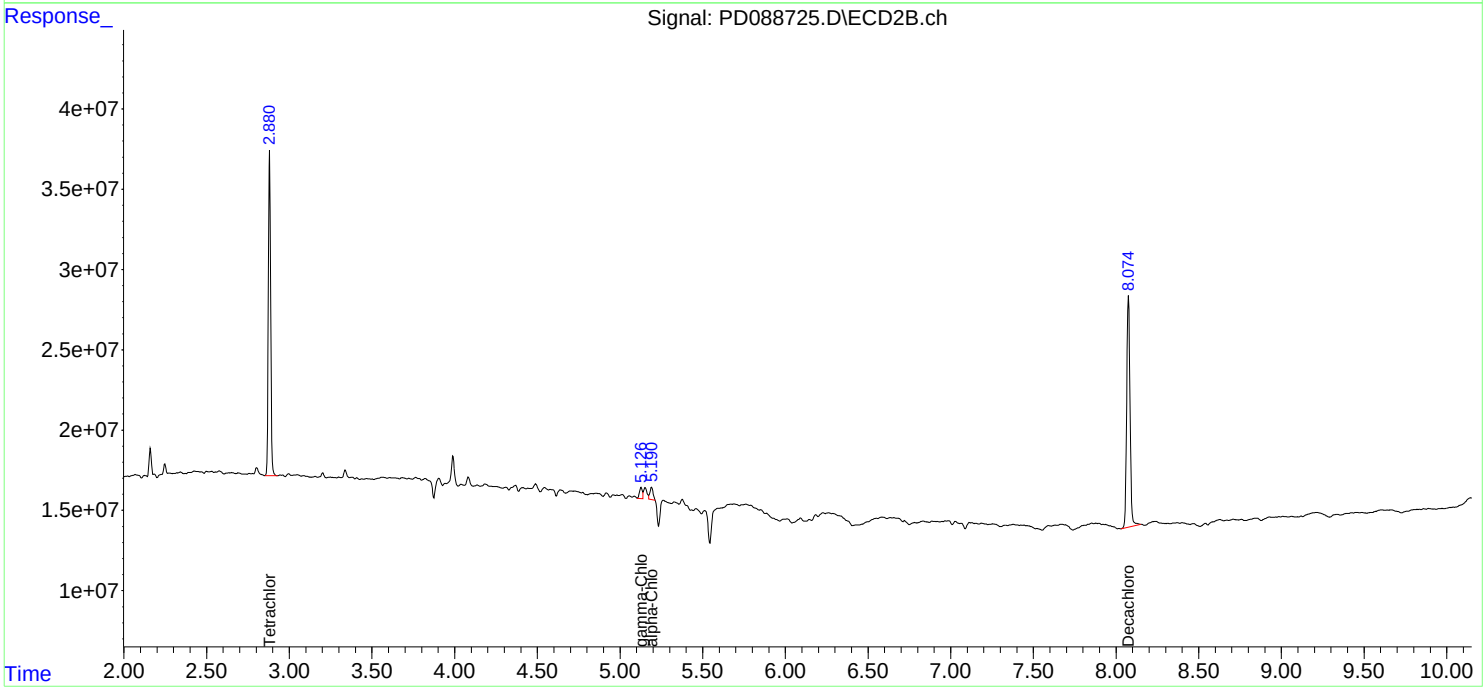
Instrument :
ECD_D
ClientSampleId :
TP-21

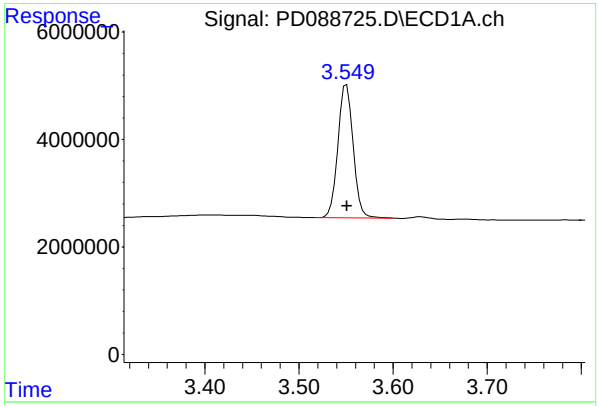
Manual Integrations APPROVED
Reviewed By :Abdul Mirza 05/23/2025
Supervised By :mohammad ahmed 05/28/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 22 22:44:35 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







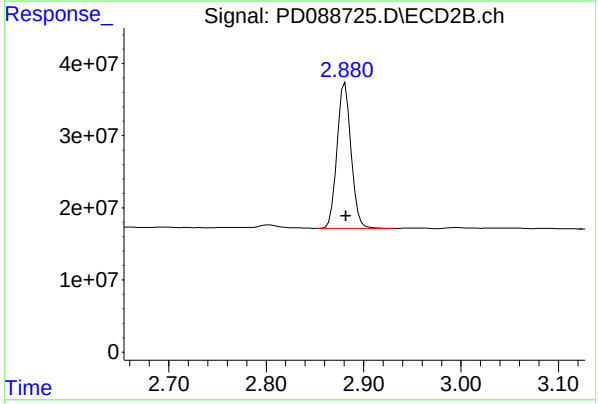
#1 Tetrachloro-m-xylene

R.T.: 3.551 min
Delta R.T.: 0.000 min
Response: 27947734
Conc: 12.92 ng/ml

Instrument :
ECD_D
ClientSampleId :
TP-21

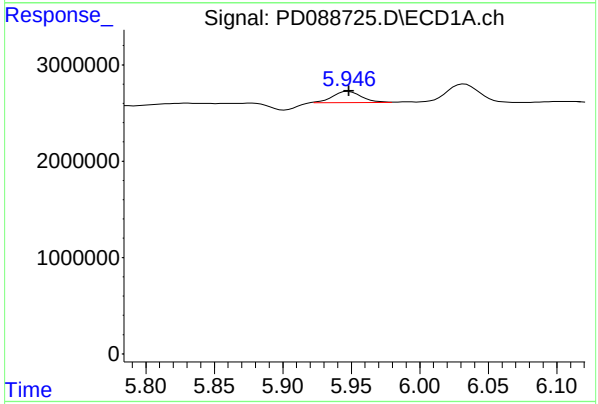
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 05/23/2025
Supervised By :mohammad ahmed 05/28/2025



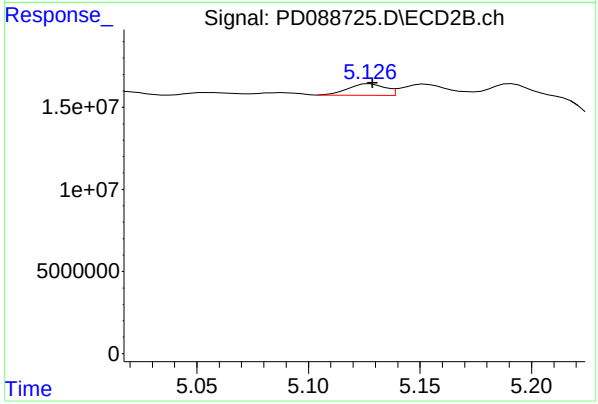
#1 Tetrachloro-m-xylene

R.T.: 2.881 min
Delta R.T.: 0.000 min
Response: 202534889
Conc: 13.39 ng/ml



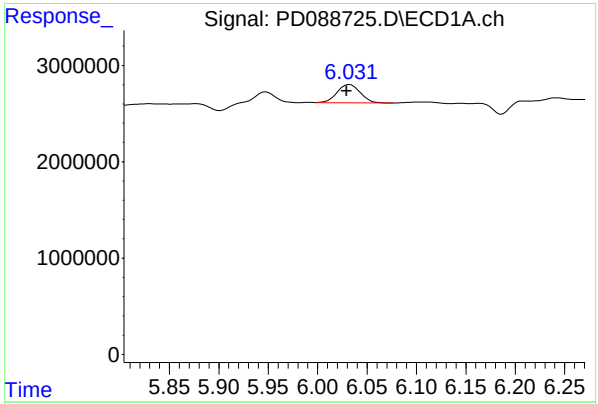
#10 gamma-Chlordane

R.T.: 5.946 min
Delta R.T.: -0.002 min
Response: 1674123
Conc: 0.42 ng/ml m



#10 gamma-Chlordane

R.T.: 5.126 min
Delta R.T.: -0.002 min
Response: 8352104
Conc: 0.39 ng/ml m



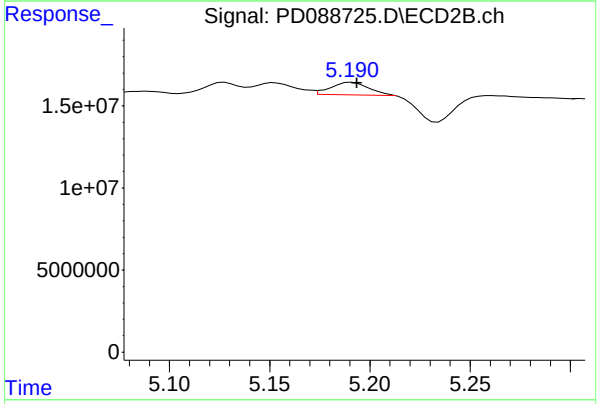
#11 alpha-Chlordane

R.T.: 6.031 min
Delta R.T.: 0.001 mi
Response: 3149090
Conc: 0.79 ng/m

Instrument :
ECD_D
ClientSampleId :
TP-21

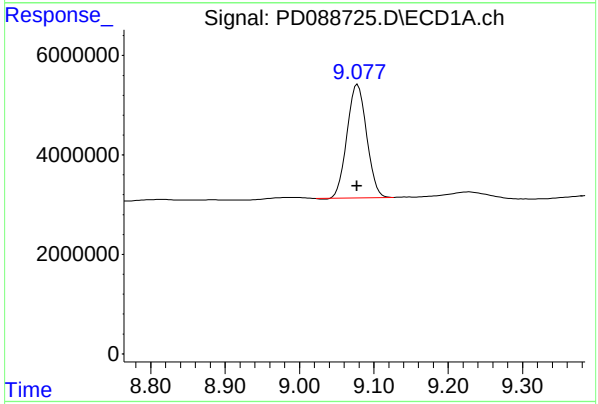
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 05/23/2025
Supervised By :mohammad ahmed 05/28/2025



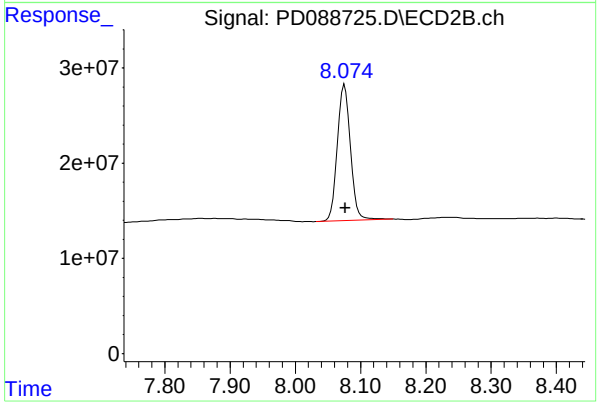
#11 alpha-Chlordane

R.T.: 5.190 min
Delta R.T.: -0.004 min
Response: 9853152
Conc: 0.48 ng/ml m



#28 Decachlorobiphenyl

R.T.: 9.078 min
Delta R.T.: 0.000 min
Response: 41809763
Conc: 12.22 ng/ml



#28 Decachlorobiphenyl

R.T.: 8.075 min
Delta R.T.: -0.001 min
Response: 201279229
Conc: 11.03 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD052325\
Data File : PD088726.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 May 2025 15:32
Operator : AR\AJ
Sample : Q2100-04
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
TP-45

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 22 22:44:57 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...	3.551	2.882	37530654	269.9E6	17.345	17.843
28)	SA Decachlor...	9.077	8.075	53692905	255.9E6	15.689	14.019
	Target Compounds						

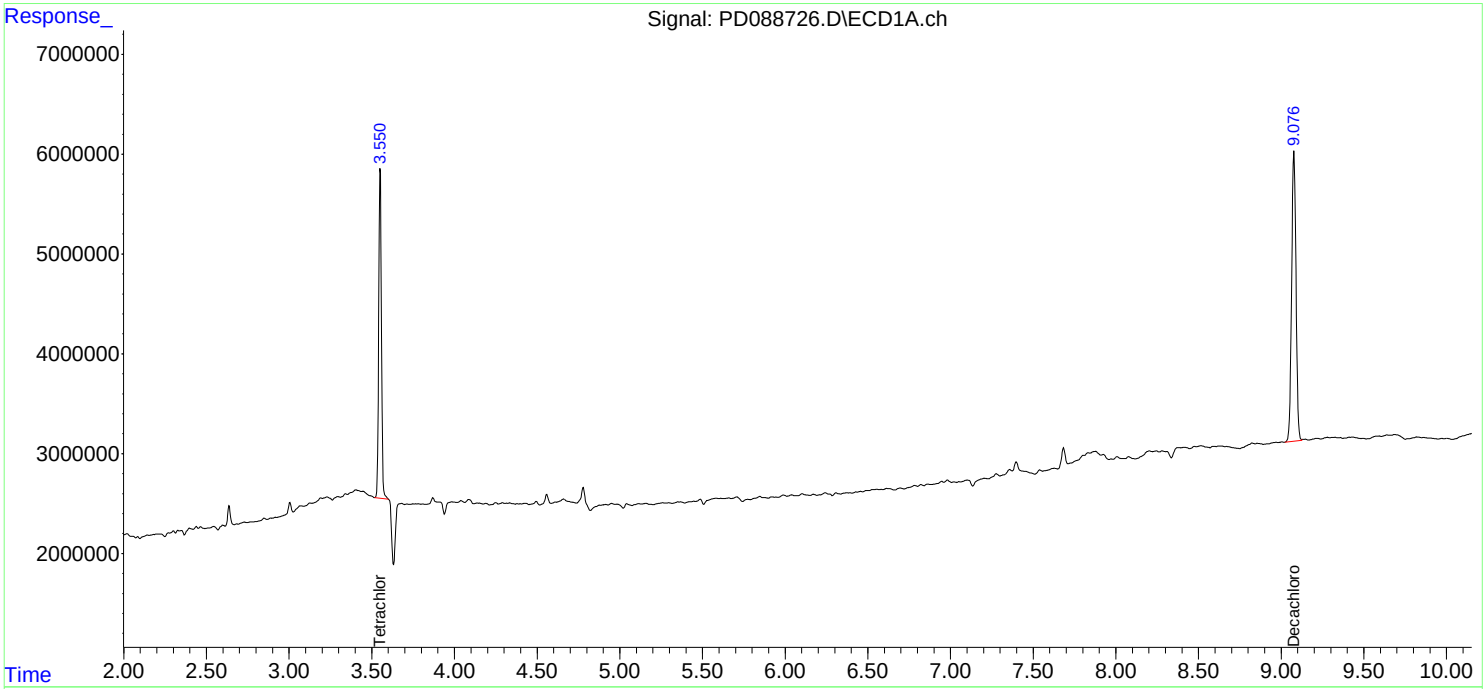
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

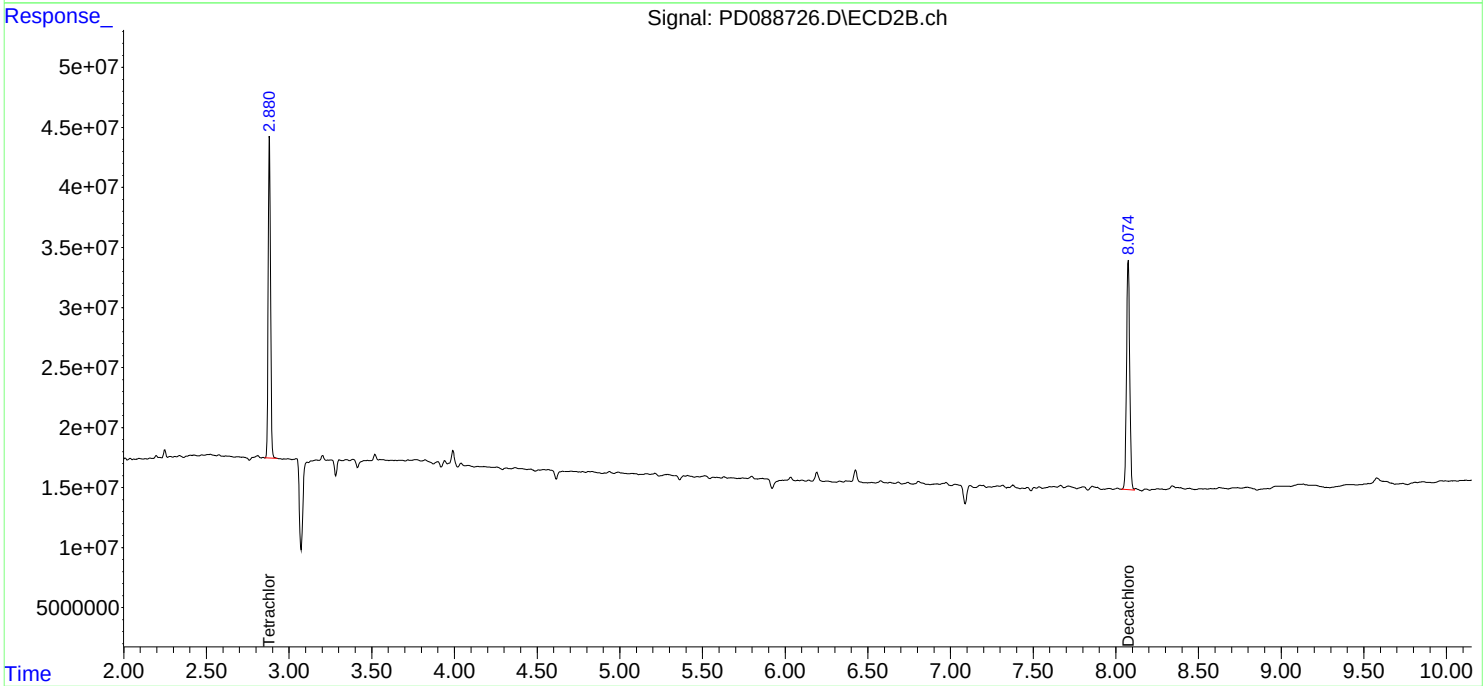
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD052325\
Data File : PD088726.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 May 2025 15:32
Operator : AR\AJ
Sample : Q2100-04
Misc :
ALS Vial : 11 Sample Multiplier: 1

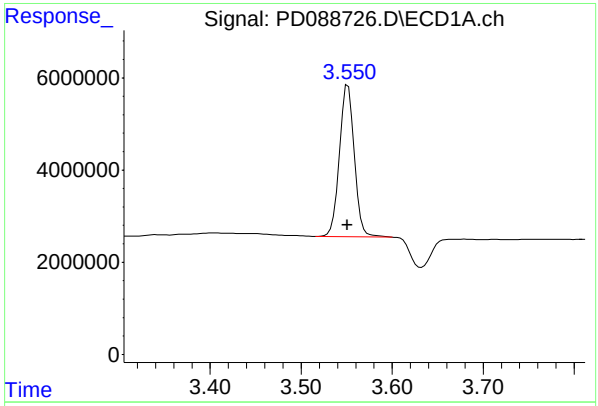
Instrument :
ECD_D
ClientSampleId :
TP-45

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 22 22:44:57 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



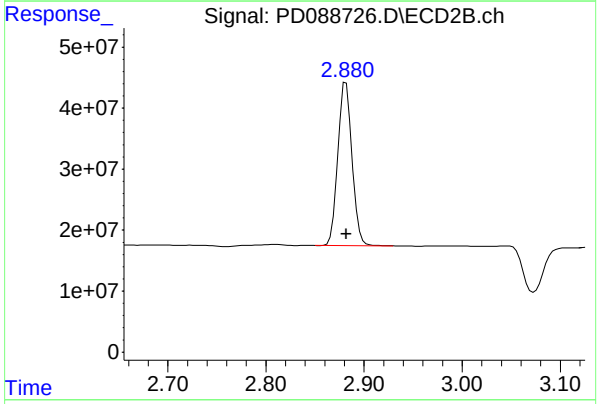




#1 Tetrachloro-m-xylene

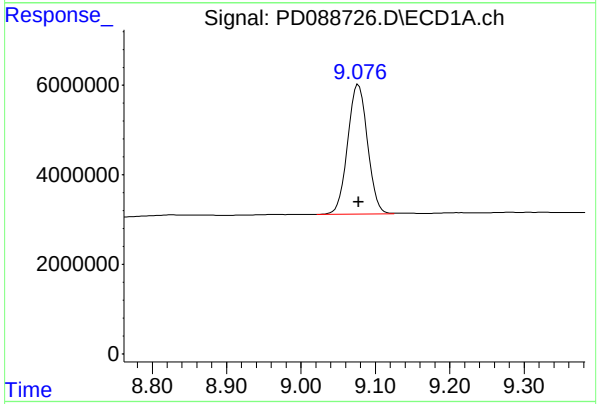
R.T.: 3.551 min
Delta R.T.: 0.000 min
Response: 37530654
Conc: 17.35 ng/ml

Instrument :
ECD_D
ClientSampleId :
TP-45



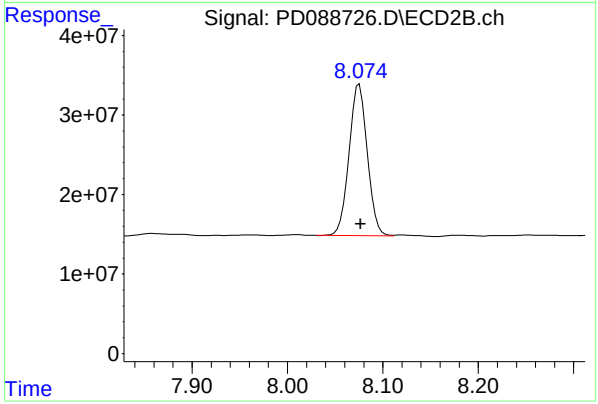
#1 Tetrachloro-m-xylene

R.T.: 2.882 min
Delta R.T.: 0.000 min
Response: 269906482
Conc: 17.84 ng/ml



#28 Decachlorobiphenyl

R.T.: 9.077 min
Delta R.T.: 0.000 min
Response: 53692905
Conc: 15.69 ng/ml



#28 Decachlorobiphenyl

R.T.: 8.075 min
Delta R.T.: -0.001 min
Response: 255926617
Conc: 14.02 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD052325\
Data File : PD088721.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 May 2025 13:48
Operator : AR\AJ
Sample : PB168125BL
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
PB168125BL

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 22 22:42:34 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...	3.559	2.880	41949500	314.4E6	19.387	20.787
28)	SA Decachlor...	9.088	8.078	68889836	324.1E6	20.130	17.750
	Target Compounds						

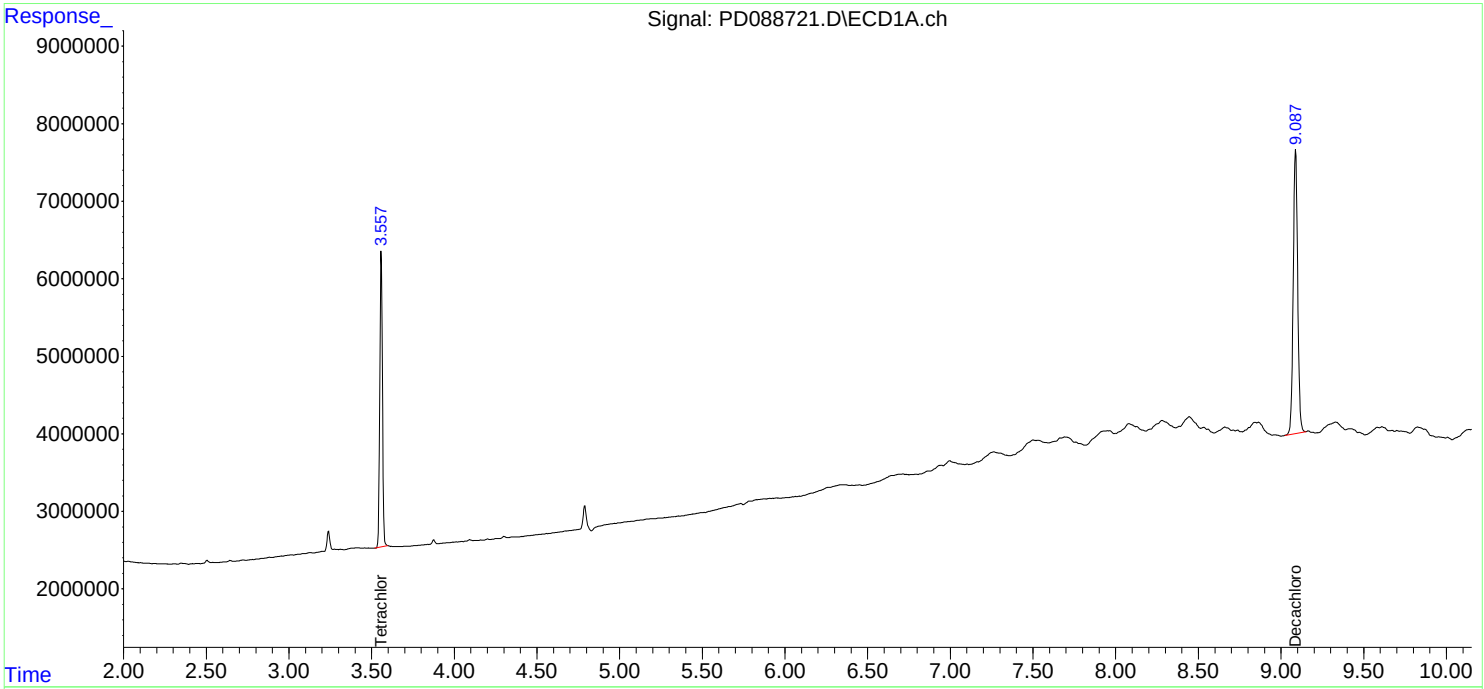
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

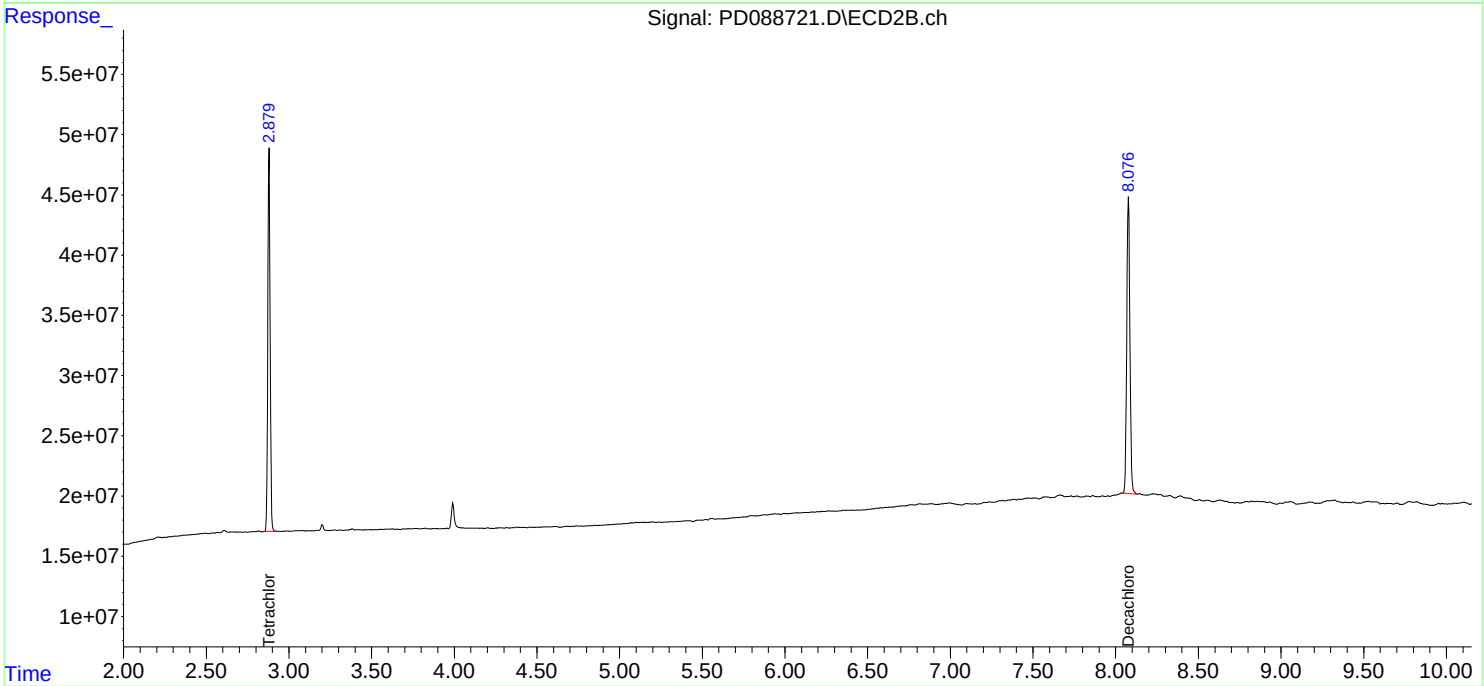
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD052325\
Data File : PD088721.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 May 2025 13:48
Operator : AR\AJ
Sample : PB168125BL
Misc :
ALS Vial : 6 Sample Multiplier: 1

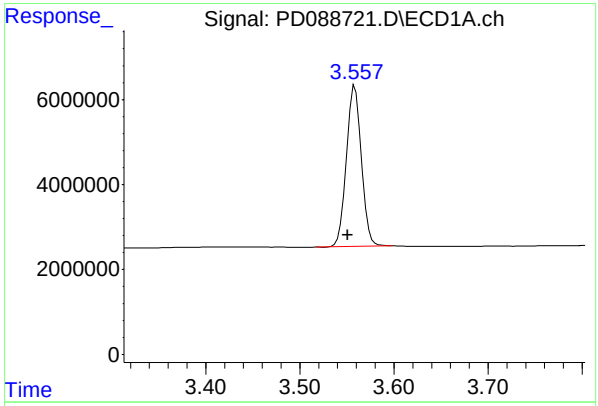
Instrument :
ECD_D
ClientSampleId :
PB168125BL

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 22 22:42:34 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



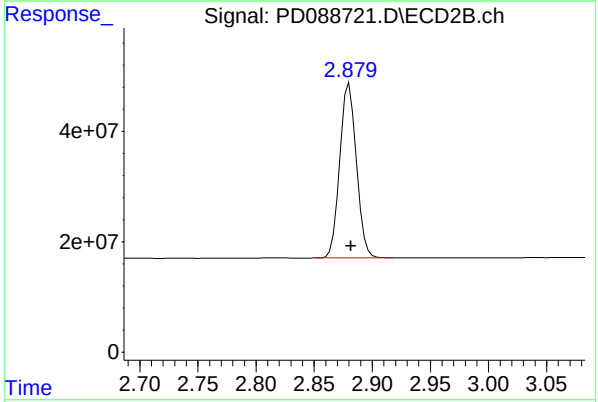




#1 Tetrachloro-m-xylene

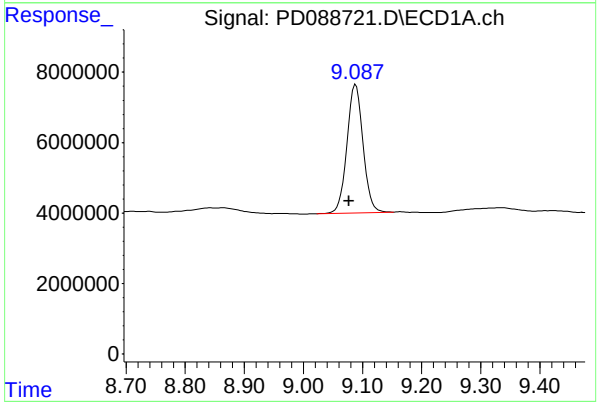
R.T.: 3.559 min
Delta R.T.: 0.008 min
Response: 41949500
Conc: 19.39 ng/ml

Instrument :
ECD_D
ClientSampleId :
PB168125BL



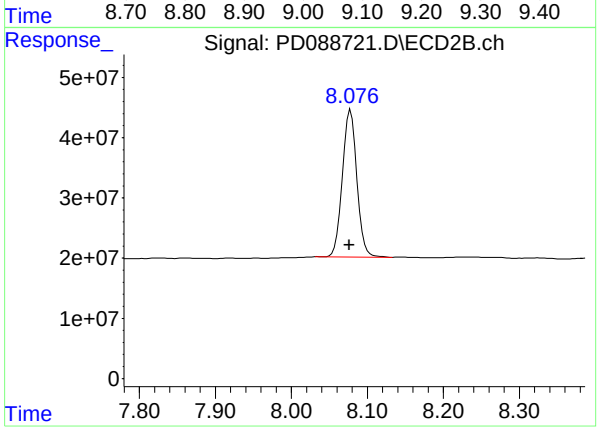
#1 Tetrachloro-m-xylene

R.T.: 2.880 min
Delta R.T.: -0.001 min
Response: 314434601
Conc: 20.79 ng/ml



#28 Decachlorobiphenyl

R.T.: 9.088 min
Delta R.T.: 0.011 min
Response: 68889836
Conc: 20.13 ng/ml



#28 Decachlorobiphenyl

R.T.: 8.078 min
Delta R.T.: 0.001 min
Response: 324056836
Conc: 17.75 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD052325\
Data File : PD088722.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 May 2025 14:23
Operator : AR\AJ
Sample : PB168125BS
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
PB168125BS

Manual Integrations APPROVED
Reviewed By :Abdul Mirza 05/27/2025
Supervised By :mohammad ahmed 05/28/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 22 22:43:13 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...	3.557	2.881	47839578	347.8E6	22.110	22.991
28)	SA Decachlor...	9.087	8.076	75610958	384.1E6	22.093	21.038
	Target Compounds						
2)	A alpha-BHC	4.008	3.394	243.0E6	1199.2E6	50.869	50.168
3)	MA gamma-BHC...	4.339	3.731	234.9E6	1113.7E6	51.029	50.245
4)	MA Heptachlor	4.939	4.084	225.0E6	1084.2E6	50.319	48.284
5)	MB Aldrin	5.281	4.369	228.4E6	1102.5E6	51.985	50.273m
6)	B beta-BHC	4.524	4.027	89891747	486.2E6	49.852	49.912
7)	B delta-BHC	4.772	4.264	215.0E6	1063.4E6	50.875	47.700
8)	B Heptachlo...	5.700	4.875	203.9E6	990.4E6	51.379	49.839
9)	A Endosulfan I	6.083	5.249	194.1E6	853.1E6	51.582	44.949
10)	B gamma-Chl...	5.955	5.128	207.0E6	1066.3E6	51.887	49.987
11)	B alpha-Chl...	6.037	5.193	206.5E6	1021.0E6	51.542	49.502
12)	B 4,4'-DDE	6.205	5.376	184.2E6	1034.1E6	51.314	49.473m
13)	MA Dieldrin	6.357	5.515	208.1E6	1047.4E6	51.868	49.771
14)	MA Endrin	6.585	5.792	172.8E6	928.8E6	50.592	48.164
15)	B Endosulfa...	6.795	6.082	175.5E6	899.5E6	50.970	49.093m
16)	A 4,4'-DDD	6.714	5.932	167.3E6	927.2E6	60.065	53.311
17)	MA 4,4'-DDT	7.031	6.186	124.2E6	731.2E6	39.784	40.317
18)	B Endrin al...	6.924	6.261	126.7E6	660.7E6	49.227	47.435
19)	B Endosulfa...	7.159	6.485	158.4E6	838.9E6	49.450	47.246
20)	A Methoxychlor	7.502	6.758	68294814	387.5E6	40.882	40.466
21)	B Endrin ke...	7.640	6.994	174.2E6	929.8E6	50.881	48.056
22)	Mirex	8.124	7.189	122.0E6	695.0E6	46.965	45.715

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

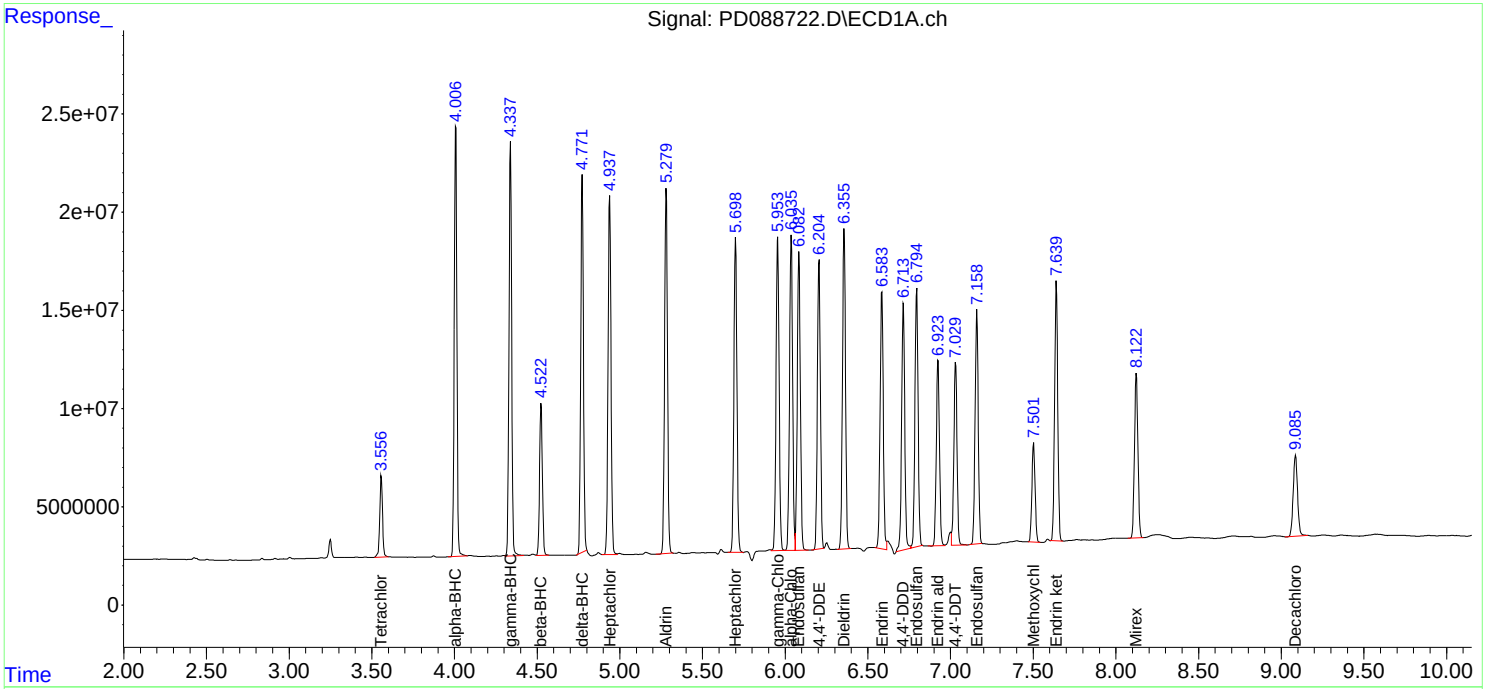
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD052325\
Data File : PD088722.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 May 2025 14:23
Operator : AR\AJ
Sample : PB168125BS
Misc :
ALS Vial : 7 Sample Multiplier: 1

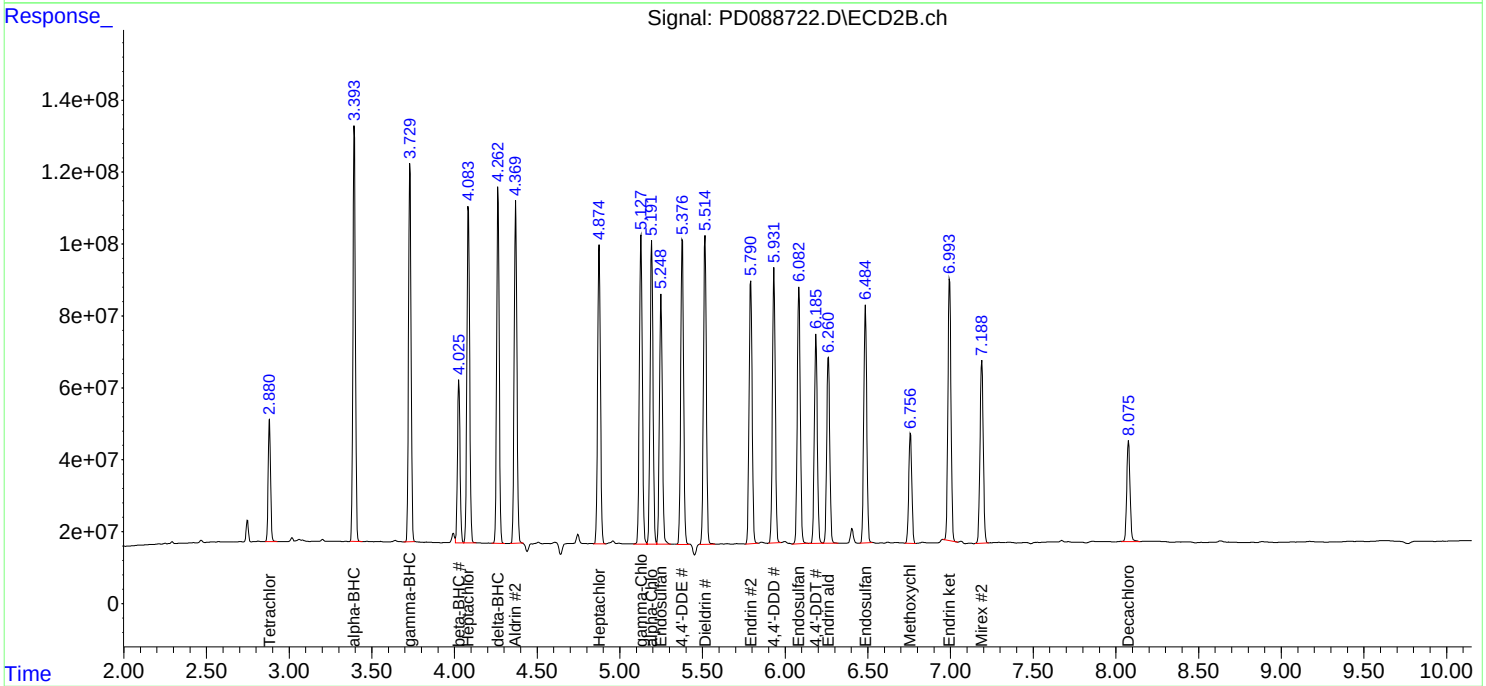
Instrument :
ECD_D
ClientSampleId :
PB168125BS

Manual Integrations APPROVED
Reviewed By :Abdul Mirza 05/27/2025
Supervised By :mohammad ahmed 05/28/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 22 22:43:13 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\PD052325\
Data File : PD088727.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 May 2025 15:46
Operator : AR\AJ
Sample : Q2100-04MS
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
TP-45MS

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 22 22:45:25 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...	3.551	2.881	43352733	323.6E6	20.036	21.390
28) SA	Decachlor...	9.077	8.075	69748129	338.2E6	20.380	18.527
	Target Compounds						
2) A	alpha-BHC	4.000	3.394	246.8E6	1211.3E6	51.666	50.673
3) MA	gamma-BHC...	4.332	3.730	236.3E6	1107.4E6	51.336	49.958
4) MA	Heptachlor	4.931	4.084	221.8E6	1071.2E6	49.610	47.702
5) MB	Aldrin	5.273	4.370	226.0E6	1093.8E6	51.434	49.876
6) B	beta-BHC	4.516	4.026	89179264	495.1E6	49.457	50.818
7) B	delta-BHC	4.766	4.263	232.7E6	1115.1E6	55.066	50.017
8) B	Heptachlo...	5.693	4.874	200.6E6	968.4E6	50.531	48.736
9) A	Endosulfan I	6.077	5.248	188.5E6	918.5E6	50.084	48.396
10) B	gamma-Chl...	5.948	5.127	201.1E6	1042.0E6	50.404	48.848
11) B	alpha-Chl...	6.029	5.192	200.7E6	1005.1E6	50.106	48.733
12) B	4,4'-DDE	6.198	5.377	180.2E6	998.4E6	50.204	47.766
13) MA	Dieldrin	6.349	5.514	201.7E6	1014.3E6	50.276	48.198
14) MA	Endrin	6.576	5.790	164.6E6	895.7E6	48.187	46.446
15) B	Endosulfa...	6.788	6.083	167.7E6	862.8E6	48.699	47.090
16) A	4,4'-DDD	6.708	5.932	154.8E6	868.4E6	55.596	49.929
17) MA	4,4'-DDT	7.023	6.186	121.4E6	694.3E6	38.889	38.278
18) B	Endrin al...	6.917	6.261	123.2E6	635.1E6	47.842	45.593
19) B	Endosulfa...	7.152	6.484	152.6E6	816.1E6	47.628	45.964
20) A	Methoxychlor	7.496	6.757	64094090	371.1E6	38.367	38.754
21) B	Endrin ke...	7.633	6.994	166.8E6	896.8E6	48.719	46.354
22)	Mirex	8.116	7.188	118.9E6	658.8E6	45.742	43.334

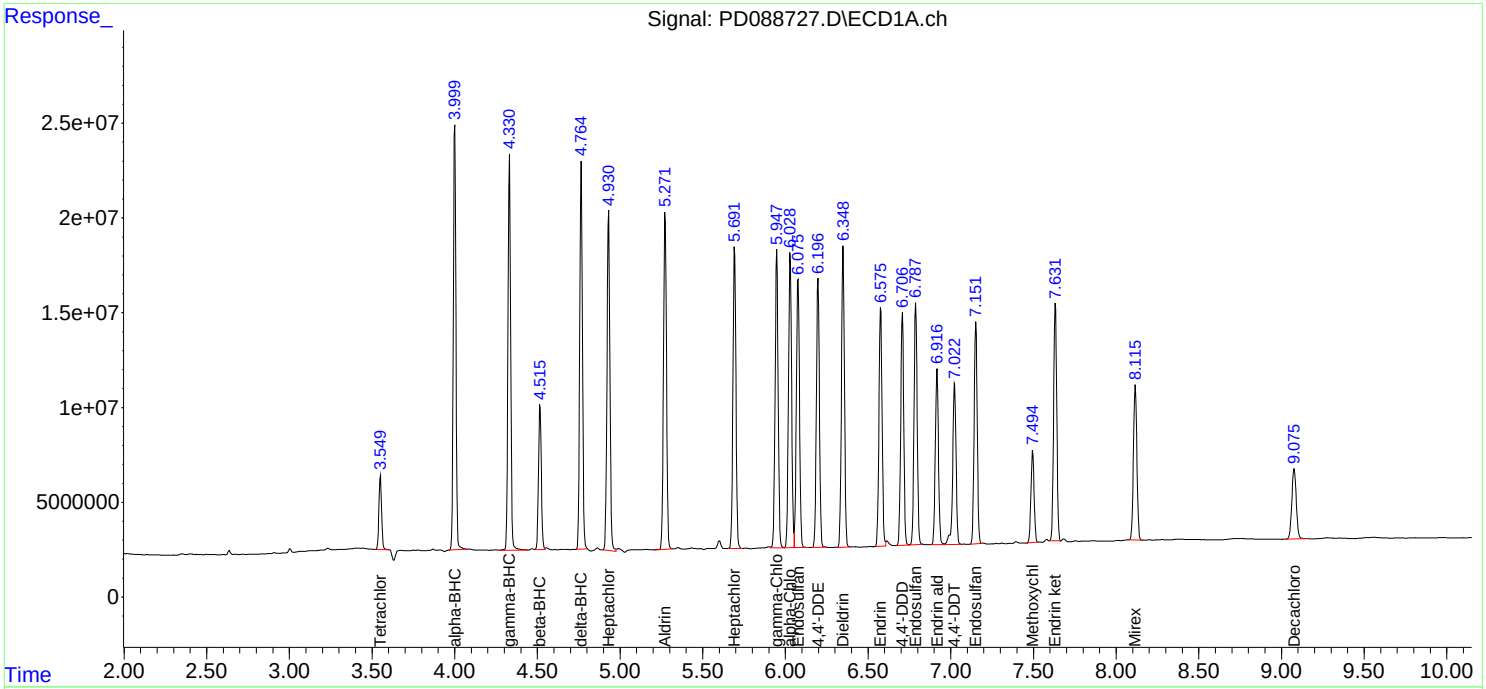
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

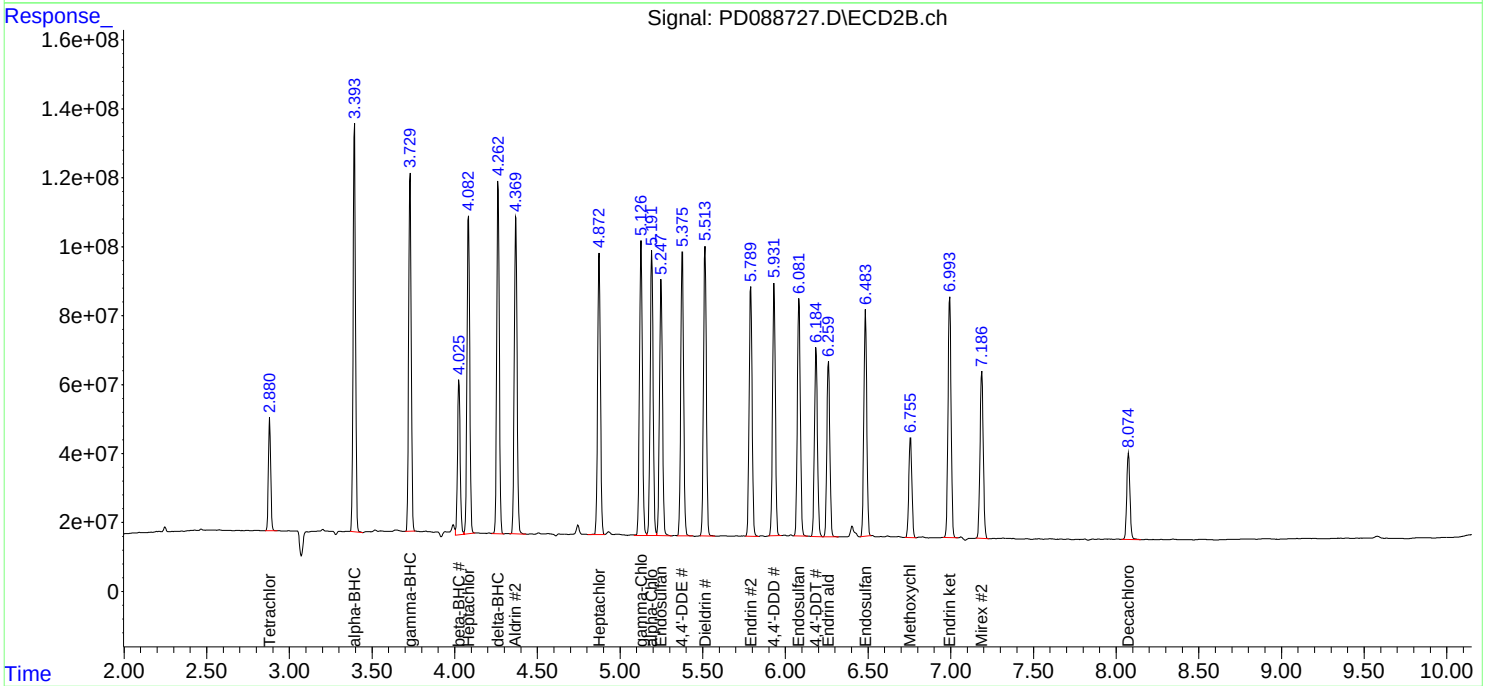
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD052325\
Data File : PD088727.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 May 2025 15:46
Operator : AR\AJ
Sample : Q2100-04MS
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
TP-45MS

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 22 22:45:25 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\PD052325\
Data File : PD088728.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 May 2025 15:59
Operator : AR\AJ
Sample : Q2100-04MSD
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
TP-45MSD

Manual Integrations APPROVED
Reviewed By :Abdul Mirza 05/27/2025
Supervised By :mohammad ahmed 05/28/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 22 22:45:42 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...	3.551	2.881	44023026	327.6E6	20.346	21.654
28) SA	Decachlor...	9.076	8.075	69953443	347.5E6	20.440	19.035
	Target Compounds						
2) A	alpha-BHC	4.000	3.394	251.7E6	1232.0E6	52.685	51.541
3) MA	gamma-BHC...	4.331	3.731	242.3E6	1130.1E6	52.644	50.982
4) MA	Heptachlor	4.931	4.084	227.5E6	1096.6E6	50.877	48.834
5) MB	Aldrin	5.273	4.370	231.0E6	1110.4E6	52.569	50.632
6) B	beta-BHC	4.516	4.027	91506258	505.6E6	50.748	51.898
7) B	delta-BHC	4.765	4.263	238.7E6	1137.7E6	56.485	51.033
8) B	Heptachlo...	5.692	4.874	205.5E6	989.5E6	51.767	49.797
9) A	Endosulfan I	6.076	5.248	193.6E6	934.7E6	51.447	49.249
10) B	gamma-Chl...	5.948	5.127	204.9E6	1065.4E6	51.377	49.943
11) B	alpha-Chl...	6.029	5.192	206.0E6	1025.8E6	51.423	49.737
12) B	4,4'-DDE	6.197	5.377	185.9E6	1015.0E6	51.790	48.560
13) MA	Dieldrin	6.349	5.514	206.7E6	1042.2E6	51.526	49.525
14) MA	Endrin	6.576	5.791	170.9E6	924.1E6	50.041	47.922
15) B	Endosulfa...	6.788	6.080	173.0E6	890.3E6	50.246	48.591m
16) A	4,4'-DDD	6.707	5.931	157.9E6	871.1E6	56.686	50.088
17) MA	4,4'-DDT	7.023	6.185	131.4E6	752.3E6	42.077	41.478
18) B	Endrin al...	6.917	6.260	126.9E6	660.6E6	49.276	47.428
19) B	Endosulfa...	7.151	6.483	160.7E6	840.5E6	50.161	47.335
20) A	Methoxychlor	7.495	6.756	68592962	378.8E6	41.060	39.567
21) B	Endrin ke...	7.632	6.993	171.4E6	1015.6E6	50.073	52.494
22)	Mirex	8.117	7.187	123.6E6	689.3E6	47.554	45.339

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

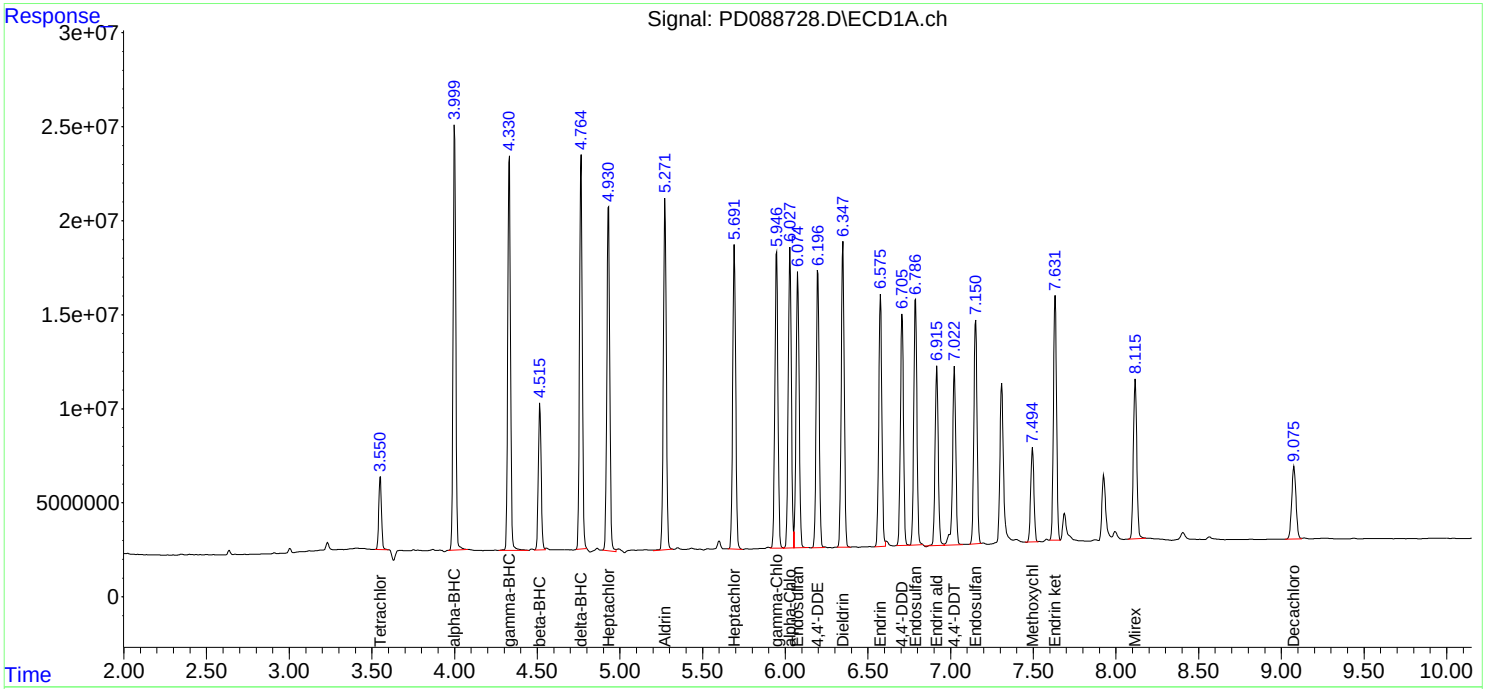
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD052325\
Data File : PD088728.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 May 2025 15:59
Operator : AR\AJ
Sample : Q2100-04MSD
Misc :
ALS Vial : 13 Sample Multiplier: 1

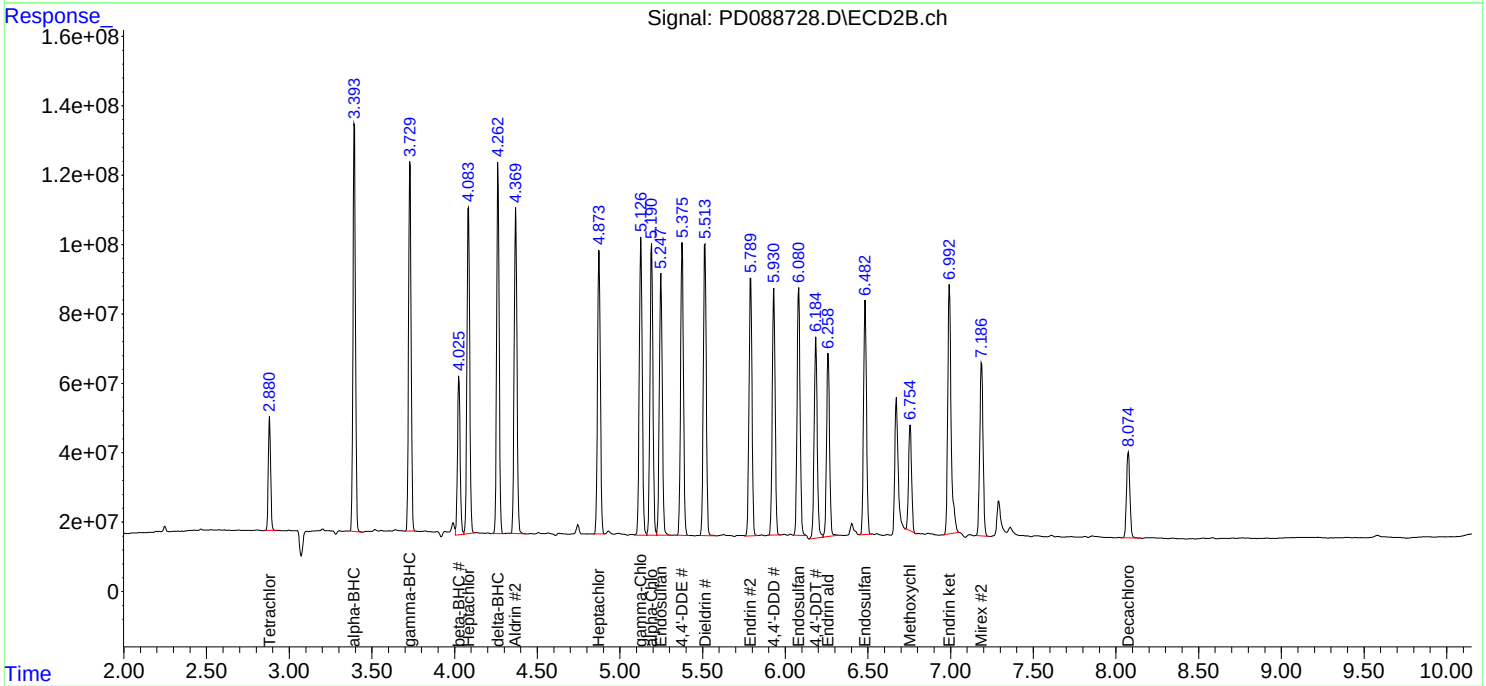
Instrument :
ECD_D
ClientSampleId :
TP-45MSD

Manual Integrations APPROVED
Reviewed By :Abdul Mirza 05/27/2025
Supervised By :mohammad ahmed 05/28/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 22 22:45:42 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:	pd052325	Instrument	ECD_d

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
PEM	PD088716.D	4,4"-DDE	Abdul	5/23/2025 8:19:08 AM	mohammad	5/28/2025 1:45:35	Peak Integrated by Software
PEM	PD088716.D	4,4"-DDE #2	Abdul	5/23/2025 8:19:08 AM	mohammad	5/28/2025 1:45:35	Peak Integrated by Software
PEM	PD088716.D	Endrin ketone	Abdul	5/23/2025 8:19:08 AM	mohammad	5/28/2025 1:45:35	Peak Integrated by Software
PSTDCCC050	PD088717.D	4,4"-DDE #2	Abdul	5/27/2025 8:09:44 AM	mohammad	5/28/2025 1:45:35	Peak Integrated by Software
PSTDCCC050	PD088717.D	Aldrin #2	Abdul	5/27/2025 8:09:44 AM	mohammad	5/28/2025 1:45:35	Peak Integrated by Software
PSTDCCC050	PD088720.D	4,4"-DDE #2	Abdul	5/27/2025 8:09:47 AM	mohammad	5/28/2025 1:45:35	Peak Integrated by Software
PSTDCCC050	PD088720.D	Aldrin #2	Abdul	5/27/2025 8:09:47 AM	mohammad	5/28/2025 1:45:35	Peak Integrated by Software
PSTDCCC050	PD088720.D	Endrin	Abdul	5/27/2025 8:09:47 AM	mohammad	5/28/2025 1:45:35	Peak Integrated by Software
PSTDCCC050	PD088720.D	Endrin aldehyde	Abdul	5/27/2025 8:09:47 AM	mohammad	5/28/2025 1:45:35	Peak Integrated by Software
PB168125BS	PD088722.D	4,4"-DDE #2	Abdul	5/27/2025 8:09:51 AM	mohammad	5/28/2025 1:45:35	Peak Integrated by Software
PB168125BS	PD088722.D	Aldrin #2	Abdul	5/27/2025 8:09:51 AM	mohammad	5/28/2025 1:45:35	Peak Integrated by Software
PB168125BS	PD088722.D	Endosulfan II #2	Abdul	5/27/2025 8:09:51 AM	mohammad	5/28/2025 1:45:35	Peak Integrated by Software
Q2100-03	PD088725.D	alpha-Chlordane	Abdul	5/23/2025 8:19:17 AM	mohammad	5/28/2025 1:45:35	Peak Integrated by Software

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Manual Integration Report

Sequence:	pd052325	Instrument	ECD_d

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q2100-03	PD088725.D	alpha-Chlordane #2	Abdul	5/23/2025 8:19:17 AM	mohammad	5/28/2025 1:45:35	Peak Integrated by Software
Q2100-03	PD088725.D	gamma-Chlordane	Abdul	5/23/2025 8:19:17 AM	mohammad	5/28/2025 1:45:35	Peak Integrated by Software
Q2100-03	PD088725.D	gamma-Chlordane #2	Abdul	5/23/2025 8:19:17 AM	mohammad	5/28/2025 1:45:35	Peak Integrated by Software
Q2100-04MSD	PD088728.D	Endosulfan II #2	Abdul	5/27/2025 8:09:56 AM	mohammad	5/28/2025 1:45:35	Peak Integrated by Software
PSTDCCC050	PD088733.D	4,4"-DDE #2	Abdul	5/27/2025 8:10:00 AM	mohammad	5/28/2025 1:45:35	Peak Integrated by Software
PSTDCCC050	PD088733.D	Aldrin #2	Abdul	5/27/2025 8:10:00 AM	mohammad	5/28/2025 1:45:35	Peak Integrated by Software
PSTDCCC050	PD088733.D	alpha-BHC	Abdul	5/27/2025 8:10:00 AM	mohammad	5/28/2025 1:45:35	Peak Integrated by Software
PSTDCCC050	PD088733.D	Decachlorobiphenyl #2	Abdul	5/27/2025 8:10:00 AM	mohammad	5/28/2025 1:45:35	Peak Integrated by Software
PSTDCCC050	PD088733.D	Endosulfan II #2	Abdul	5/27/2025 8:10:00 AM	mohammad	5/28/2025 1:45:35	Peak Integrated by Software
PSTDCCC050	PD088733.D	Endrin	Abdul	5/27/2025 8:10:00 AM	mohammad	5/28/2025 1:45:35	Peak Integrated by Software
PSTDCCC050	PD088733.D	Endrin ketone #2	Abdul	5/27/2025 8:10:00 AM	mohammad	5/28/2025 1:45:35	Peak Integrated by Software
PSTDCCC050	PD088733.D	gamma-Chlordane	Abdul	5/27/2025 8:10:00 AM	mohammad	5/28/2025 1:45:35	Peak Integrated by Software

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Manual Integration Report

Sequence:	pd052325	Instrument	ECD_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,
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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 # PD052325

Review By	Abdul	Review On	5/23/2025 8:19:47 AM		
Supervise By	mohammad	Supervise On	5/28/2025 1:45:35 AM		
SubDirectory	PD052325	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	PD088714.D	22 May 2025 09:27	AR\AJ	Ok
2	I.BLK	PD088715.D	22 May 2025 09:41	AR\AJ	Ok
3	PEM	PD088716.D	22 May 2025 10:12	AR\AJ	Ok,M
4	PSTDCCC050	PD088717.D	22 May 2025 10:59	AR\AJ	Ok,M
5	Q2068-03	PD088718.D	22 May 2025 11:13	AR\AJ	Not Ok
6	I.BLK	PD088719.D	22 May 2025 11:26	AR\AJ	Ok
7	PSTDCCC050	PD088720.D	22 May 2025 11:40	AR\AJ	Ok,M
8	PB168125BL	PD088721.D	22 May 2025 13:48	AR\AJ	Ok
9	PB168125BS	PD088722.D	22 May 2025 14:23	AR\AJ	Ok,M
10	Q2100-01	PD088723.D	22 May 2025 14:51	AR\AJ	Ok
11	Q2100-02	PD088724.D	22 May 2025 15:05	AR\AJ	Ok
12	Q2100-03	PD088725.D	22 May 2025 15:18	AR\AJ	Ok,M
13	Q2100-04	PD088726.D	22 May 2025 15:32	AR\AJ	Ok
14	Q2100-04MS	PD088727.D	22 May 2025 15:46	AR\AJ	Ok
15	Q2100-04MSD	PD088728.D	22 May 2025 15:59	AR\AJ	Ok,M
16	Q2101-01	PD088729.D	22 May 2025 16:13	AR\AJ	Ok
17	Q2102-01	PD088730.D	22 May 2025 16:27	AR\AJ	Not Ok
18	Q2104-01	PD088731.D	22 May 2025 16:40	AR\AJ	Ok
19	I.BLK	PD088732.D	22 May 2025 16:54	AR\AJ	Ok
20	PSTDCCC050	PD088733.D	22 May 2025 17:39	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

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Instrument ID: ECD_D

Daily Analysis Runlog For Sequence/QCBatch ID # PD052325

Review By	Abdul	Review On	5/23/2025 8:19:47 AM		
Supervise By	mohammad	Supervise On	5/28/2025 1:45:35 AM		
SubDirectory	PD052325	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	PD088714.D	22 May 2025 09:27		AR\AJ	Ok
2	I.BLK	I.BLK	PD088715.D	22 May 2025 09:41		AR\AJ	Ok
3	PEM	PEM	PD088716.D	22 May 2025 10:12		AR\AJ	Ok,M
4	PSTDCCC050	PSTDCCC050	PD088717.D	22 May 2025 10:59		AR\AJ	Ok,M
5	Q2068-03	LAW-25-0074	PD088718.D	22 May 2025 11:13	TCMX low in 2nd column , already run	AR\AJ	Not Ok
6	I.BLK	I.BLK	PD088719.D	22 May 2025 11:26		AR\AJ	Ok
7	PSTDCCC050	PSTDCCC050	PD088720.D	22 May 2025 11:40		AR\AJ	Ok,M
8	PB168125BL	PB168125BL	PD088721.D	22 May 2025 13:48		AR\AJ	Ok
9	PB168125BS	PB168125BS	PD088722.D	22 May 2025 14:23		AR\AJ	Ok,M
10	Q2100-01	TP-16	PD088723.D	22 May 2025 14:51		AR\AJ	Ok
11	Q2100-02	TP-22	PD088724.D	22 May 2025 15:05		AR\AJ	Ok
12	Q2100-03	TP-21	PD088725.D	22 May 2025 15:18		AR\AJ	Ok,M
13	Q2100-04	TP-45	PD088726.D	22 May 2025 15:32		AR\AJ	Ok
14	Q2100-04MS	TP-45MS	PD088727.D	22 May 2025 15:46		AR\AJ	Ok
15	Q2100-04MSD	TP-45MSD	PD088728.D	22 May 2025 15:59		AR\AJ	Ok,M
16	Q2101-01	TP-1-MHE	PD088729.D	22 May 2025 16:13		AR\AJ	Ok
17	Q2102-01	LAW-25-0077	PD088730.D	22 May 2025 16:27	TCMX having F Flag in 2nd column	AR\AJ	Not Ok

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Instrument ID: ECD_D

Daily Analysis Runlog For Sequence/QCBatch ID # PD052325

Review By	Abdul	Review On	5/23/2025 8:19:47 AM		
Supervise By	mohammad	Supervise On	5/28/2025 1:45:35 AM		
SubDirectory	PD052325	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	

18	Q2104-01	TR-06-052125	PD088731.D	22 May 2025 16:40		AR\AJ	Ok
19	I.BLK	I.BLK	PD088732.D	22 May 2025 16:54		AR\AJ	Ok
20	PSTDCCC050	PSTDCCC050	PD088733.D	22 May 2025 17:39	Comp#7 high in 1st column	AR\AJ	Ok,M

M : Manual Integration

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PB168125

SOP ID:	M3541-ASE Extraction-14				
Clean Up SOP #:	Florisil			**Extraction Start Date :**	05/22/2025
Matrix :	Solid			**Extraction Start Time :**	08:30
Weigh By:	EH	**Extraction By:**	RJ	**Extraction End Date :**	05/22/2025
Balance check:	RJ	**Filter By:**	RJ	**Extraction End Time :**	11:30
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	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
Hexane/Acetone/1:1	N/A	EP2613
Baked Na2SO4	N/A	EP2614
Sand	N/A	E2865
Hexane	N/A	E3934
Florisil	N/A	E3806
9:1 Hexane:Acetone Mixture	N/A	EP2596
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
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
5/22/25	RS (EXT Lab)	Y. P. Pest/PCB
11:35	**Preparation Group**	**Analysis Group**

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PrepBatch ID : PB168125

Analytical Method: M3541-ASE Extraction-14 **Concentration Date:** 05/22/2025

Sample ID	Client Sample ID	Test	(g)/ mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB168125BL	PBLK125	Pesticide-TCL	30.01	N/A	ritesh	Evelyn	10			U1-1
PB168125BS	PLCS125	Pesticide-TCL	30.03	N/A	ritesh	Evelyn	10			2
Q2100-01	TP-16	Pesticide-TCL	30.02	N/A	ritesh	Evelyn	10	E		3
Q2100-02	TP-22	Pesticide-TCL	30.07	N/A	ritesh	Evelyn	10	E		4
Q2100-03	TP-21	Pesticide-TCL	30.02	N/A	ritesh	Evelyn	10	E		5
Q2100-04	TP-45	Pesticide-TCL	30.05	N/A	ritesh	Evelyn	10	E		6
Q2100-04MS	TP-45MS	Pesticide-TCL	30.04	N/A	ritesh	Evelyn	10	E		U2-1
Q2100-04MSD	TP-45MSD	Pesticide-TCL	30.02	N/A	ritesh	Evelyn	10	E		2
Q2101-01	TP-1-MHE	Pesticide-TCL	30.08	N/A	ritesh	Evelyn	10	C		3
Q2102-01	LAW-25-0077	Pesticide-TCL	30.01	N/A	ritesh	Evelyn	10	E	Small Partical	4
Q2104-01	TR-06-052125	Pesticide-TCL	30.06	N/A	ritesh	Evelyn	10	E		5

RS 5/22

* **Extracts relinguished on the same date as received.**

Q2100 5/22/25 8:30

WORKLIST(Hardcopy Internal Chain)

WorkList Name : Q2100 **WorkList ID :** 189696 **Department :** Extraction **Date :** 05-22-2025 08:24:04

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2100-01	TP-16	Solid	Pesticide-TCL	Cool 4 deg C	CAMP02	L41	05/20/2025	8081B
Q2100-02	TP-22	Solid	Pesticide-TCL	Cool 4 deg C	CAMP02	L41	05/20/2025	8081B
Q2100-03	TP-21	Solid	Pesticide-TCL	Cool 4 deg C	CAMP02	L41	05/20/2025	8081B
Q2100-04	TP-45	Solid	Pesticide-TCL	Cool 4 deg C	CAMP02	L41	05/20/2025	8081B
Q2101-01	TP-1-MHE	Solid	Pesticide-TCL	Cool 4 deg C	PSEG03	L41	05/19/2025	8081B
Q2102-01	LAW-25-0077	Solid	Pesticide-TCL	Cool 4 deg C	PSEG03	L21	05/21/2025	8081B
Q2104-01	TR-06-052125	Solid	Pesticide-TCL	Cool 4 deg C	PSEG05	L31	05/21/2025	8081B

Date/Time 05/22/25 8:25
Raw Sample Received by: RJ (Lexi-Lab)
Raw Sample Relinquished by:

Date/Time 05/22/25 8:55
Raw Sample Received by:
Raw Sample Relinquished by: RJ (Lexi-Lab)

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LAB CHRONICLE

OrderID:	Q2100	**OrderDate:**	5/20/2025 3:22:00 PM
Client:	CDM Smith	**Project:**	South River WM Replacement
Contact:	Marcie Ann Encinas	**Location:**	L41,VOA Ref. #2 Soil

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2100-01	**TP-16**	**SOIL**			**05/19/25**			**05/20/25**
			Diesel Range Organics	8015D		05/23/25	05/23/25	
			Gasoline Range Organics	8015D			05/21/25	
			Pesticide-TCL	8081B		05/22/25	05/22/25	
			PCB	8082A		05/22/25	05/22/25	
Q2100-02	**TP-22**	**SOIL**			**05/19/25**			**05/20/25**
			Diesel Range Organics	8015D		05/23/25	05/23/25	
			Gasoline Range Organics	8015D			05/21/25	
			Pesticide-TCL	8081B		05/22/25	05/22/25	
			PCB	8082A		05/22/25	05/22/25	
Q2100-03	**TP-21**	**SOIL**			**05/20/25**			**05/20/25**
			Diesel Range Organics	8015D		05/23/25	05/23/25	
			Gasoline Range Organics	8015D			05/21/25	
			PCB	8082A		05/22/25	05/22/25	
			Pesticide-TCL	8081B		05/22/25	05/22/25	
Q2100-04	**TP-45**	**SOIL**			**05/20/25**			**05/20/25**
			Diesel Range Organics	8015D		05/23/25	05/23/25	
			Gasoline Range Organics	8015D			05/21/25	
			PCB	8082A		05/22/25	05/22/25	
			Pesticide-TCL	8081B		05/22/25	05/22/25	

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Hit Summary Sheet
SW-846

SDG No.: Q2100 **Order ID:** Q2100

Client: CDM Smith **Project ID:** South River WM Replacement

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units

Client ID :

Total Concentration: **0.000**

SAMPLE DATA

Alliance TECHNICAL GROUP
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Report of Analysis

Client:	CDM Smith	Date Collected:	05/19/25
Project:	South River WM Replacement	Date Received:	05/20/25
Client Sample ID:	TP-16	SDG No.:	Q2100
Lab Sample ID:	Q2100-01	Matrix:	SOIL
Analytical Method:	8082A	% Solid:	88.4 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
PO111282.D	1	05/22/25 08:30	05/22/25 12:54	PB168124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	4.50	U	4.50	19.2	ug/kg
11104-28-2	Aroclor-1221	4.60	U	4.60	19.2	ug/kg
11141-16-5	Aroclor-1232	4.20	U	4.20	19.2	ug/kg
53469-21-9	Aroclor-1242	4.50	U	4.50	19.2	ug/kg
12672-29-6	Aroclor-1248	6.70	U	6.70	19.2	ug/kg
11097-69-1	Aroclor-1254	3.60	U	3.60	19.2	ug/kg
37324-23-5	Aroclor-1262	5.70	U	5.70	19.2	ug/kg
11100-14-4	Aroclor-1268	4.10	U	4.10	19.2	ug/kg
11096-82-5	Aroclor-1260	3.70	U	3.70	19.2	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	18.4		32 - 144	92%	SPK: 20
2051-24-3	Decachlorobiphenyl	13.7		32 - 175	69%	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:	CDM Smith	Date Collected:	05/19/25
Project:	South River WM Replacement	Date Received:	05/20/25
Client Sample ID:	TP-22	SDG No.:	Q2100
Lab Sample ID:	Q2100-02	Matrix:	SOIL
Analytical Method:	8082A	% Solid:	84 Decanted:
Sample Wt/Vol:	30.07 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
PO111283.D	1	05/22/25 08:30	05/22/25 13:12	PB168124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	4.70	U	4.70	20.2	ug/kg
11104-28-2	Aroclor-1221	4.80	U	4.80	20.2	ug/kg
11141-16-5	Aroclor-1232	4.40	U	4.40	20.2	ug/kg
53469-21-9	Aroclor-1242	4.80	U	4.80	20.2	ug/kg
12672-29-6	Aroclor-1248	7.00	U	7.00	20.2	ug/kg
11097-69-1	Aroclor-1254	3.80	U	3.80	20.2	ug/kg
37324-23-5	Aroclor-1262	6.00	U	6.00	20.2	ug/kg
11100-14-4	Aroclor-1268	4.30	U	4.30	20.2	ug/kg
11096-82-5	Aroclor-1260	3.80	U	3.80	20.2	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	18.8		32 - 144	94%	SPK: 20
2051-24-3	Decachlorobiphenyl	16.3		32 - 175	81%	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:	CDM Smith	Date Collected:	05/20/25
Project:	South River WM Replacement	Date Received:	05/20/25
Client Sample ID:	TP-21	SDG No.:	Q2100
Lab Sample ID:	Q2100-03	Matrix:	SOIL
Analytical Method:	8082A	% Solid:	78.2 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
PO111284.D	1	05/22/25 08:30	05/22/25 13:29	PB168124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	5.00	U	5.00	21.7	ug/kg
11104-28-2	Aroclor-1221	5.20	U	5.20	21.7	ug/kg
11141-16-5	Aroclor-1232	4.80	U	4.80	21.7	ug/kg
53469-21-9	Aroclor-1242	5.10	U	5.10	21.7	ug/kg
12672-29-6	Aroclor-1248	7.60	U	7.60	21.7	ug/kg
11097-69-1	Aroclor-1254	4.10	U	4.10	21.7	ug/kg
37324-23-5	Aroclor-1262	6.40	U	6.40	21.7	ug/kg
11100-14-4	Aroclor-1268	4.60	U	4.60	21.7	ug/kg
11096-82-5	Aroclor-1260	4.10	U	4.10	21.7	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	20.8		32 - 144	104%	SPK: 20
2051-24-3	Decachlorobiphenyl	17.9		32 - 175	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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Fax : 908 789 8922

Report of Analysis

Client:	CDM Smith	Date Collected:	05/20/25
Project:	South River WM Replacement	Date Received:	05/20/25
Client Sample ID:	TP-45	SDG No.:	Q2100
Lab Sample ID:	Q2100-04	Matrix:	SOIL
Analytical Method:	8082A	% Solid:	76.2 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
PO111287.D	1	05/22/25 08:30	05/22/25 14:25	PB168124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	5.20	U	5.20	22.3	ug/kg
11104-28-2	Aroclor-1221	5.30	U	5.30	22.3	ug/kg
11141-16-5	Aroclor-1232	4.90	U	4.90	22.3	ug/kg
53469-21-9	Aroclor-1242	5.30	U	5.30	22.3	ug/kg
12672-29-6	Aroclor-1248	7.80	U	7.80	22.3	ug/kg
11097-69-1	Aroclor-1254	4.20	U	4.20	22.3	ug/kg
37324-23-5	Aroclor-1262	6.60	U	6.60	22.3	ug/kg
11100-14-4	Aroclor-1268	4.70	U	4.70	22.3	ug/kg
11096-82-5	Aroclor-1260	4.20	U	4.20	22.3	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	18.7		32 - 144	94%	SPK: 20
2051-24-3	Decachlorobiphenyl	16.6		32 - 175	83%	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

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

Surrogate Summary

SDG No.: Q2100

Client: CDM Smith

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		60	140
		Decachlorobiphenyl	1	20	17.5	87		60	140
		Tetrachloro-m-xylene	2	20	15.4	77		60	140
		Decachlorobiphenyl	2	20	17.9	90		60	140
I.BLK-PO111277.D	PIBLK-PO111277.D	Tetrachloro-m-xylene	1	20	19.0	95		60	140
		Decachlorobiphenyl	1	20	19.5	98		60	140
		Tetrachloro-m-xylene	2	20	17.4	87		60	140
		Decachlorobiphenyl	2	20	18.6	93		60	140
Q2100-01	TP-16	Tetrachloro-m-xylene	1	20	18.4	92		32	144
		Decachlorobiphenyl	1	20	12.6	63		32	175
		Tetrachloro-m-xylene	2	20	16.6	83		32	144
		Decachlorobiphenyl	2	20	13.7	69		32	175
Q2100-02	TP-22	Tetrachloro-m-xylene	1	20	18.8	94		32	144
		Decachlorobiphenyl	1	20	15.3	77		32	175
		Tetrachloro-m-xylene	2	20	17.2	86		32	144
		Decachlorobiphenyl	2	20	16.3	81		32	175
Q2100-03	TP-21	Tetrachloro-m-xylene	1	20	20.8	104		32	144
		Decachlorobiphenyl	1	20	16.2	81		32	175
		Tetrachloro-m-xylene	2	20	19.0	95		32	144
		Decachlorobiphenyl	2	20	17.9	89		32	175
Q2100-03MS	TP-21MS	Tetrachloro-m-xylene	1	20	19.3	96		32	144
		Decachlorobiphenyl	1	20	15.7	79		32	175
		Tetrachloro-m-xylene	2	20	17.7	88		32	144
		Decachlorobiphenyl	2	20	18.1	91		32	175
Q2100-03MSD	TP-21MSD	Tetrachloro-m-xylene	1	20	18.8	94		32	144
		Decachlorobiphenyl	1	20	14.2	71		32	175
		Tetrachloro-m-xylene	2	20	17.4	87		32	144
		Decachlorobiphenyl	2	20	16.8	84		32	175
Q2100-04	TP-45	Tetrachloro-m-xylene	1	20	18.7	94		32	144
		Decachlorobiphenyl	1	20	14.4	72		32	175
		Tetrachloro-m-xylene	2	20	16.8	84		32	144
		Decachlorobiphenyl	2	20	16.6	83		32	175
I.BLK-PO111292.D	PIBLK-PO111292.D	Tetrachloro-m-xylene	1	20	19.2	96		60	140
		Decachlorobiphenyl	1	20	18.7	93		60	140
		Tetrachloro-m-xylene	2	20	17.6	88		60	140
		Decachlorobiphenyl	2	20	18.5	93		60	140
I.BLK-PP072163.D	PIBLK-PP072163.D	Tetrachloro-m-xylene	1	20	16.3	82		60	140
		Decachlorobiphenyl	1	20	16.7	84		60	140
		Tetrachloro-m-xylene	2	20	16.6	83		60	140
		Decachlorobiphenyl	2	20	17.0	85		60	140
I.BLK-PP072290.D	PIBLK-PP072290.D	Tetrachloro-m-xylene	1	20	19.1	95		60	140

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Surrogate Summary

SDG No.: Q2100

Client: CDM Smith

Analytical Method: 8082A

Lab Sample ID	Client ID	Parameter	Column	Spike	Result	Rec	Qual	Limits Low	Limits High
I.BLK-PP072290.D	PIBLK-PP072290.D	Decachlorobiphenyl	1	20	20.4	102		60	140
		Tetrachloro-m-xylene	2	20	20.7	103		60	140
		Decachlorobiphenyl	2	20	21.5	108		60	140
PB168124BL	PB168124BL	Tetrachloro-m-xylene	1	20	20.3	101		32	144
		Decachlorobiphenyl	1	20	20.6	103		32	175
		Tetrachloro-m-xylene	2	20	21.4	107		32	144
		Decachlorobiphenyl	2	20	23.0	115		32	175
PB168124BS	PB168124BS	Tetrachloro-m-xylene	1	20	20.4	102		32	144
		Decachlorobiphenyl	1	20	21.1	105		32	175
		Tetrachloro-m-xylene	2	20	20.3	101		32	144
		Decachlorobiphenyl	2	20	22.6	113		32	175
I.BLK-PP072305.D	PIBLK-PP072305.D	Tetrachloro-m-xylene	1	20	18.8	94		60	140
		Decachlorobiphenyl	1	20	20.0	100		60	140
		Tetrachloro-m-xylene	2	20	19.8	99		60	140
		Decachlorobiphenyl	2	20	22.0	110		60	140

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q2100 **Analytical Method:** 8082A

Client: CDM Smith **DataFile :** PO111285.D

Lab Sample ID:	Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Client Sample ID:	**TP-21MS**											
Q2100-03MS (Column 1)	AR1016	212.7	0	165	ug/kg	78				55	146	
	AR1260	212.7	0	141	ug/kg	66				31	146	
Client Sample ID:	**TP-21MS**											
Q2100-03MS (Column 2)	AR1016	212.7	0	163	ug/kg	77				55	146	
	AR1260	212.7	0	142	ug/kg	67				31	146	

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q2100 **Analytical Method:** 8082A

Client: CDM Smith **DataFile :** PO111286.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:	**TP-21MSD**											
Q2100-03MSD (Column 1)	AR1016	212.8	0	150	ug/kg	70		11		55	146	20
	AR1260	212.8	0	122	ug/kg	57		15		31	146	20
Client Sample ID:	**TP-21MSD**											
Q2100-03MSD (Column 2)	AR1016	212.8	0	147	ug/kg	69		11		55	146	20
	AR1260	212.8	0	125	ug/kg	59		13		31	146	20

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2100 **Analytical Method:** 8082A

Client: CDM Smith **Datafile :** PP072292.D

Lab Sample ID	Parameter	Spike	Result	Units	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB168124BS (Column 1)	AR1016	166.6	127	ug/kg	76				71	120	
	AR1260	166.6	126	ug/kg	76				65	130	
PB168124BS (Column 2)	AR1016	166.6	133	ug/kg	80				71	120	
	AR1260	166.6	133	ug/kg	80				65	130	

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4C

PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB168124BL

Lab Name: CHEMTECH Contract: CAMP02

Lab Code: CHEM Case No.: Q2100 SAS No.: Q2100 SDG NO.: Q2100

Lab Sample ID: PB168124BL Lab File ID: PP072291.D

Matrix: (soil/water) Solid Extraction: (Type) SOXH

Sulfur Cleanup: (Y/N) N Date Extracted: 05/22/2025

Date Analyzed (1): 05/22/2025 Date Analyzed (2): 05/22/2025

Time Analyzed (1): 11:58 Time Analyzed (2): 11:58

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
TP-16	Q2100-01	PO111282.D	05/22/2025	05/22/2025
TP-22	Q2100-02	PO111283.D	05/22/2025	05/22/2025
TP-21	Q2100-03	PO111284.D	05/22/2025	05/22/2025
TP-21MS	Q2100-03MS	PO111285.D	05/22/2025	05/22/2025
TP-21MSD	Q2100-03MSD	PO111286.D	05/22/2025	05/22/2025
TP-45	Q2100-04	PO111287.D	05/22/2025	05/22/2025
PB168124BS	PB168124BS	PP072292.D	05/22/2025	05/22/2025

COMMENTS:

QC SAMPLE DATA

Alliance TECHNICAL GROUP
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Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	PB168124BL	SDG No.:	Q2100
Lab Sample ID:	PB168124BL	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
PP072291.D	1	05/22/25 08:30	05/22/25 11:58	PB168124

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	21.4		32 - 144	107%	SPK: 20
2051-24-3	Decachlorobiphenyl	23.0		32 - 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
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() = Laboratory InHouse Limit

Alliance TECHNICAL GROUP
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Report of Analysis

Client:	CDM Smith	Date Collected:	05/14/25
Project:	South River WM Replacement	Date Received:	05/14/25
Client Sample ID:	PIBLK-PO111057.D	SDG No.:	Q2100
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		60 - 140	77%	SPK: 20
2051-24-3	Decachlorobiphenyl	17.5		60 - 140	87%	SPK: 20

Comments:

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Report of Analysis

Client:	CDM Smith	Date Collected:	05/22/25
Project:	South River WM Replacement	Date Received:	05/22/25
Client Sample ID:	PIBLK-PO111277.D	SDG No.:	Q2100
Lab Sample ID:	I.BLK-PO111277.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
PO111277.D	1		05/22/25	PO052225

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	17.4		60 - 140	87%	SPK: 20
2051-24-3	Decachlorobiphenyl	18.6		60 - 140	93%	SPK: 20

Comments:

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Alliance TECHNICAL GROUP
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Report of Analysis

Client:	CDM Smith	Date Collected:	05/22/25
Project:	South River WM Replacement	Date Received:	05/22/25
Client Sample ID:	PIBLK-PO111292.D	SDG No.:	Q2100
Lab Sample ID:	I.BLK-PO111292.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
PO111292.D	1		05/22/25	po052225

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	17.6		60 - 140	88%	SPK: 20
2051-24-3	Decachlorobiphenyl	18.5		60 - 140	93%	SPK: 20

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Alliance TECHNICAL GROUP
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Report of Analysis

Client:	CDM Smith	Date Collected:	05/19/25
Project:	South River WM Replacement	Date Received:	05/19/25
Client Sample ID:	PIBLK-PP072163.D	SDG No.:	Q2100
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		60 - 140	82%	SPK: 20
2051-24-3	Decachlorobiphenyl	16.7		60 - 140	84%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
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Fax : 908 789 8922

Report of Analysis

Client:	CDM Smith	Date Collected:	05/22/25
Project:	South River WM Replacement	Date Received:	05/22/25
Client Sample ID:	PIBLK-PP072290.D	SDG No.:	Q2100
Lab Sample ID:	I.BLK-PP072290.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
PP072290.D	1		05/22/25	PP052225

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	19.1		60 - 140	95%	SPK: 20
2051-24-3	Decachlorobiphenyl	20.4		60 - 140	102%	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:	CDM Smith	Date Collected:	05/22/25
Project:	South River WM Replacement	Date Received:	05/22/25
Client Sample ID:	PIBLK-PP072305.D	SDG No.:	Q2100
Lab Sample ID:	I.BLK-PP072305.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
PP072305.D	1		05/22/25	PP052225

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	18.8		60 - 140	94%	SPK: 20
2051-24-3	Decachlorobiphenyl	20.0		60 - 140	100%	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:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	PB168124BS	SDG No.:	Q2100
Lab Sample ID:	PB168124BS	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
PP072292.D	1	05/22/25 08:30	05/22/25 12:14	PB168124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	133		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	133		3.20	17.0	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	20.4		32 - 144	102%	SPK: 20
2051-24-3	Decachlorobiphenyl	22.6		32 - 175	113%	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:	CDM Smith	Date Collected:	05/20/25
Project:	South River WM Replacement	Date Received:	05/20/25
Client Sample ID:	TP-21MS	SDG No.:	Q2100
Lab Sample ID:	Q2100-03MS	Matrix:	SOIL
Analytical Method:	8082A	% Solid:	78.2 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
PO111285.D	1	05/22/25 08:30	05/22/25 13:48	PB168124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	165		5.00	21.7	ug/kg
11104-28-2	Aroclor-1221	5.10	U	5.10	21.7	ug/kg
11141-16-5	Aroclor-1232	4.70	U	4.70	21.7	ug/kg
53469-21-9	Aroclor-1242	5.10	U	5.10	21.7	ug/kg
12672-29-6	Aroclor-1248	7.60	U	7.60	21.7	ug/kg
11097-69-1	Aroclor-1254	4.10	U	4.10	21.7	ug/kg
37324-23-5	Aroclor-1262	6.40	U	6.40	21.7	ug/kg
11100-14-4	Aroclor-1268	4.60	U	4.60	21.7	ug/kg
11096-82-5	Aroclor-1260	142		4.10	21.7	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	19.3		32 - 144	96%	SPK: 20
2051-24-3	Decachlorobiphenyl	18.1		32 - 175	91%	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:	CDM Smith	Date Collected:	05/20/25
Project:	South River WM Replacement	Date Received:	05/20/25
Client Sample ID:	TP-21MSD	SDG No.:	Q2100
Lab Sample ID:	Q2100-03MSD	Matrix:	SOIL
Analytical Method:	8082A	% Solid:	78.2 Decanted:
Sample Wt/Vol:	30.04 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
PO111286.D	1	05/22/25 08:30	05/22/25 14:06	PB168124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	150		5.00	21.7	ug/kg
11104-28-2	Aroclor-1221	5.10	U	5.10	21.7	ug/kg
11141-16-5	Aroclor-1232	4.80	U	4.80	21.7	ug/kg
53469-21-9	Aroclor-1242	5.10	U	5.10	21.7	ug/kg
12672-29-6	Aroclor-1248	7.60	U	7.60	21.7	ug/kg
11097-69-1	Aroclor-1254	4.10	U	4.10	21.7	ug/kg
37324-23-5	Aroclor-1262	6.40	U	6.40	21.7	ug/kg
11100-14-4	Aroclor-1268	4.60	U	4.60	21.7	ug/kg
11096-82-5	Aroclor-1260	125		4.10	21.7	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	18.8		32 - 144	94%	SPK: 20
2051-24-3	Decachlorobiphenyl	16.8		32 - 175	84%	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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CALIBRATION SUMMARY

Alliance TECHNICAL GROUP
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RETENTION TIMES OF INITIAL CALIBRATION

Contract: CAMP02

Lab Code: CHEM **Case No.:** Q2100 **SAS No.:** Q2100 **SDG NO.:** Q2100

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: CAMP02

Lab Code: CHEM **Case No.:** Q2100 **SAS No.:** Q2100 **SDG NO.:** Q2100

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: CAMP02

Lab Code: CHEM **Case No.:** Q2100 **SAS No.:** Q2100 **SDG NO.:** Q2100

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: CAMP02

Lab Code: CHEM **Case No.:** Q2100 **SAS No.:** Q2100 **SDG NO.:** Q2100

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: CAMP02

Lab Code: CHEM **Case No.:** Q2100 **SAS No.:** Q2100 **SDG NO.:** Q2100

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: CAMP02

Lab Code: CHEM **Case No.:** Q2100 **SAS No.:** Q2100 **SDG NO.:** Q2100

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: CAMP02

Lab Code: CHEM **Case No.:** Q2100 **SAS No.:** Q2100 **SDG NO.:** Q2100

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: CAMP02

Lab Code: CHEM **Case No.:** Q2100 **SAS No.:** Q2100 **SDG NO.:** Q2100

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: CAMP02

Lab Code: CHEM **Case No.:** Q2100 **SAS No.:** Q2100 **SDG NO.:** Q2100

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: CAMP02

Lab Code: CHEM **Case No.:** Q2100 **SAS No.:** Q2100 **SDG NO.:** Q2100

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: CAMP02

Lab Code: CHEM **Case No.:** Q2100 **SAS No.:** Q2100 **SDG NO.:** Q2100

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: CAMP02

Lab Code: CHEM **Case No.:** Q2100 **SAS No.:** Q2100 **SDG NO.:** Q2100

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: CAMP02

Lab Code: CHEM **Case No.:** Q2100 **SAS No.:** Q2100 **SDG NO.:** Q2100

Continuing Calib Date: 05/22/2025 **Initial Calibration Date(s):** 05/14/2025 05/15/2025

Continuing Calib Time: 10:10 **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)	4.85	4.85	4.75	4.95	0.00
Aroclor-1016-4	(4)	4.97	4.97	4.87	5.07	0.00
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: CAMP02

Lab Code: CHEM **Case No.:** Q2100 **SAS No.:** Q2100 **SDG NO.:** Q2100

Continuing Calib Date: 05/22/2025 **Initial Calibration Date(s):** 05/14/2025 05/15/2025

Continuing Calib Time: 10:10 **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)	4.76	4.76	4.66	4.86	0.00
Aroclor-1016-2	(2)	4.78	4.78	4.68	4.88	0.00
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)	5.21	5.21	5.11	5.31	0.01
Aroclor-1260-1	(1)	6.24	6.24	6.14	6.34	0.00
Aroclor-1260-2	(2)	6.42	6.43	6.33	6.53	0.01
Aroclor-1260-3	(3)	6.58	6.58	6.48	6.68	0.00
Aroclor-1260-4	(4)	7.05	7.05	6.95	7.15	0.00
Aroclor-1260-5	(5)	7.29	7.29	7.19	7.39	0.00
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: CAMP02

Lab Code: CHEM **Case No.:** Q2100 **SAS No.:** Q2100 **SDG NO.:** Q2100

GC Column: ZB-MR1 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 05/14/2025 05/14/2025

Client Sample No.: CCAL01 **Date Analyzed:** 05/22/2025

Lab Sample No.: AR1660CCC500 **Data File :** PO111273.D **Time Analyzed:** 10:10

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	4.771	4.673	4.873	523.520	500.000	4.7
Aroclor-1016-2	4.789	4.692	4.892	531.280	500.000	6.3
Aroclor-1016-3	4.846	4.749	4.949	543.870	500.000	8.8
Aroclor-1016-4	4.966	4.869	5.069	535.250	500.000	7.1
Aroclor-1016-5	5.224	5.126	5.326	522.550	500.000	4.5
Aroclor-1260-1	6.263	6.166	6.366	528.000	500.000	5.6
Aroclor-1260-2	6.453	6.355	6.555	525.790	500.000	5.2
Aroclor-1260-3	6.820	6.722	6.922	523.540	500.000	4.7
Aroclor-1260-4	7.080	6.983	7.183	521.080	500.000	4.2
Aroclor-1260-5	7.323	7.225	7.425	525.480	500.000	5.1
Decachlorobiphenyl	8.722	8.624	8.824	50.690	50.000	1.4
Tetrachloro-m-xylene	3.680	3.582	3.782	52.820	50.000	5.6

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CALIBRATION VERIFICATION SUMMARY

Contract: CAMP02

Lab Code: CHEM **Case No.:** Q2100 **SAS No.:** Q2100 **SDG NO.:** Q2100

GC Column: ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 05/14/2025 05/14/2025

Client Sample No.: CCAL01 **Date Analyzed:** 05/22/2025

Lab Sample No.: AR1660CCC500 **Data File :** PO111273.D **Time Analyzed:** 10:10

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	4.756	4.658	4.858	501.100	500.000	0.2
Aroclor-1016-2	4.775	4.677	4.877	504.110	500.000	0.8
Aroclor-1016-3	4.950	4.852	5.052	507.060	500.000	1.4
Aroclor-1016-4	4.992	4.894	5.094	504.510	500.000	0.9
Aroclor-1016-5	5.205	5.107	5.307	504.430	500.000	0.9
Aroclor-1260-1	6.236	6.138	6.338	504.970	500.000	1.0
Aroclor-1260-2	6.424	6.326	6.526	502.630	500.000	0.5
Aroclor-1260-3	6.576	6.479	6.679	472.310	500.000	-5.5
Aroclor-1260-4	7.047	6.949	7.149	492.700	500.000	-1.5
Aroclor-1260-5	7.288	7.191	7.391	489.400	500.000	-2.1
Decachlorobiphenyl	8.671	8.574	8.774	48.950	50.000	-2.1
Tetrachloro-m-xylene	3.677	3.579	3.779	51.990	50.000	4.0

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CALIBRATION VERIFICATION SUMMARY

Contract: CAMP02

Lab Code: CHEM **Case No.:** Q2100 **SAS No.:** Q2100 **SDG NO.:** Q2100

Continuing Calib Date: 05/22/2025 **Initial Calibration Date(s):** 05/14/2025 05/15/2025

Continuing Calib Time: 15:37 **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		8.72	8.72	8.62	8.82	0.00

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CALIBRATION VERIFICATION SUMMARY

Contract: CAMP02

Lab Code: CHEM **Case No.:** Q2100 **SAS No.:** Q2100 **SDG NO.:** Q2100

Continuing Calib Date: 05/22/2025 **Initial Calibration Date(s):** 05/14/2025 05/15/2025

Continuing Calib Time: 15:37 **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)	4.76	4.76	4.66	4.86	0.00
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)	6.24	6.24	6.14	6.34	0.00
Aroclor-1260-2	(2)	6.42	6.43	6.33	6.53	0.01
Aroclor-1260-3	(3)	6.58	6.58	6.48	6.68	0.01
Aroclor-1260-4	(4)	7.05	7.05	6.95	7.15	0.00
Aroclor-1260-5	(5)	7.29	7.29	7.19	7.39	0.00
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: CAMP02

Lab Code: CHEM **Case No.:** Q2100 **SAS No.:** Q2100 **SDG NO.:** Q2100

GC Column: ZB-MR1 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 05/14/2025 05/14/2025

Client Sample No.: CCAL02 **Date Analyzed:** 05/22/2025

Lab Sample No.: AR1660CCC500 **Data File :** PO111288.D **Time Analyzed:** 15:37

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	4.768	4.673	4.873	534.780	500.000	7.0
Aroclor-1016-2	4.787	4.692	4.892	538.860	500.000	7.8
Aroclor-1016-3	4.844	4.749	4.949	550.350	500.000	10.1
Aroclor-1016-4	4.964	4.869	5.069	541.370	500.000	8.3
Aroclor-1016-5	5.222	5.126	5.326	525.860	500.000	5.2
Aroclor-1260-1	6.261	6.166	6.366	522.690	500.000	4.5
Aroclor-1260-2	6.450	6.355	6.555	530.360	500.000	6.1
Aroclor-1260-3	6.817	6.722	6.922	509.770	500.000	2.0
Aroclor-1260-4	7.077	6.983	7.183	501.680	500.000	0.3
Aroclor-1260-5	7.321	7.225	7.425	496.330	500.000	-0.7
Decachlorobiphenyl	8.719	8.624	8.824	46.970	50.000	-6.1
Tetrachloro-m-xylene	3.679	3.582	3.782	53.010	50.000	6.0

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CALIBRATION VERIFICATION SUMMARY

Contract: CAMP02

Lab Code: CHEM **Case No.:** Q2100 **SAS No.:** Q2100 **SDG NO.:** Q2100

GC Column: ZB-MR2 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 05/14/2025 05/14/2025

Client Sample No.: CCAL02 **Date Analyzed:** 05/22/2025

Lab Sample No.: AR1660CCC500 **Data File :** PO111288.D **Time Analyzed:** 15:37

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	4.755	4.658	4.858	509.400	500.000	1.9
Aroclor-1016-2	4.774	4.677	4.877	511.470	500.000	2.3
Aroclor-1016-3	4.949	4.852	5.052	512.030	500.000	2.4
Aroclor-1016-4	4.992	4.894	5.094	503.300	500.000	0.7
Aroclor-1016-5	5.204	5.107	5.307	510.250	500.000	2.1
Aroclor-1260-1	6.235	6.138	6.338	496.920	500.000	-0.6
Aroclor-1260-2	6.423	6.326	6.526	495.270	500.000	-0.9
Aroclor-1260-3	6.575	6.479	6.679	460.070	500.000	-8.0
Aroclor-1260-4	7.046	6.949	7.149	476.950	500.000	-4.6
Aroclor-1260-5	7.288	7.191	7.391	474.510	500.000	-5.1
Decachlorobiphenyl	8.671	8.574	8.774	47.170	50.000	-5.7
Tetrachloro-m-xylene	3.677	3.579	3.779	52.520	50.000	5.0

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CALIBRATION VERIFICATION SUMMARY

Contract: CAMP02

Lab Code: CHEM **Case No.:** Q2100 **SAS No.:** Q2100 **SDG NO.:** Q2100

Continuing Calib Date: 05/22/2025 **Initial Calibration Date(s):** 05/19/2025 05/19/2025

Continuing Calib Time: 10:03 **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)	5.68	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	0.00
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		10.21	10.21	10.11	10.31	0.00

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CALIBRATION VERIFICATION SUMMARY

Contract: CAMP02

Lab Code: CHEM **Case No.:** Q2100 **SAS No.:** Q2100 **SDG NO.:** Q2100

Continuing Calib Date: 05/22/2025 **Initial Calibration Date(s):** 05/19/2025 05/19/2025

Continuing Calib Time: 10:03 **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	0.00
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)	6.71	6.71	6.61	6.81	0.01
Aroclor-1260-4	(4)	7.18	7.18	7.08	7.28	0.00
Aroclor-1260-5	(5)	7.42	7.42	7.32	7.52	0.00
Tetrachloro-m-xylene		3.80	3.79	3.69	3.89	-0.01
Decachlorobiphenyl		8.82	8.82	8.72	8.92	0.00

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CALIBRATION VERIFICATION SUMMARY

Contract: CAMP02

Lab Code: CHEM **Case No.:** Q2100 **SAS No.:** Q2100 **SDG NO.:** Q2100

GC Column: ZB-MR1 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 05/19/2025 05/19/2025

Client Sample No.: CCAL03 **Date Analyzed:** 05/22/2025

Lab Sample No.: AR1660CCC500 **Data File :** PP072286.D **Time Analyzed:** 10:03

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	5.654	5.552	5.752	476.140	500.000	-4.8
Aroclor-1016-2	5.676	5.574	5.774	511.140	500.000	2.2
Aroclor-1016-3	5.739	5.636	5.836	497.860	500.000	-0.4
Aroclor-1016-4	5.835	5.734	5.934	515.920	500.000	3.2
Aroclor-1016-5	6.128	6.027	6.227	516.070	500.000	3.2
Aroclor-1260-1	7.246	7.147	7.347	508.170	500.000	1.6
Aroclor-1260-2	7.500	7.401	7.601	504.900	500.000	1.0
Aroclor-1260-3	7.858	7.760	7.960	523.470	500.000	4.7
Aroclor-1260-4	8.082	7.985	8.185	525.410	500.000	5.1
Aroclor-1260-5	8.401	8.303	8.503	527.280	500.000	5.5
Decachlorobiphenyl	10.208	10.113	10.313	53.260	50.000	6.5
Tetrachloro-m-xylene	4.502	4.396	4.596	51.920	50.000	3.8

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CALIBRATION VERIFICATION SUMMARY

Contract: CAMP02

Lab Code: CHEM **Case No.:** Q2100 **SAS No.:** Q2100 **SDG NO.:** Q2100

GC Column: ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 05/19/2025 05/19/2025

Client Sample No.: CCAL03 **Date Analyzed:** 05/22/2025

Lab Sample No.: AR1660CCC500 **Data File :** PP072286.D **Time Analyzed:** 10:03

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	4.879	4.777	4.977	517.470	500.000	3.5
Aroclor-1016-2	4.897	4.795	4.995	531.580	500.000	6.3
Aroclor-1016-3	5.074	4.973	5.173	539.340	500.000	7.9
Aroclor-1016-4	5.116	5.015	5.215	544.550	500.000	8.9
Aroclor-1016-5	5.330	5.229	5.429	534.000	500.000	6.8
Aroclor-1260-1	6.364	6.264	6.464	543.290	500.000	8.7
Aroclor-1260-2	6.552	6.453	6.653	513.590	500.000	2.7
Aroclor-1260-3	6.705	6.606	6.806	552.800	500.000	10.6
Aroclor-1260-4	7.176	7.077	7.277	550.020	500.000	10.0
Aroclor-1260-5	7.417	7.319	7.519	543.120	500.000	8.6
Decachlorobiphenyl	8.819	8.723	8.923	54.340	50.000	8.7
Tetrachloro-m-xylene	3.796	3.691	3.891	52.980	50.000	6.0

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CALIBRATION VERIFICATION SUMMARY

Contract: CAMP02

Lab Code: CHEM **Case No.:** Q2100 **SAS No.:** Q2100 **SDG NO.:** Q2100

Continuing Calib Date: 05/22/2025 **Initial Calibration Date(s):** 05/19/2025 05/19/2025

Continuing Calib Time: 15:49 **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)	5.66	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	0.00
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)	8.09	8.09	7.99	8.19	0.00
Aroclor-1260-5	(5)	8.41	8.40	8.30	8.50	0.00
Tetrachloro-m-xylene		4.50	4.50	4.40	4.60	0.00
Decachlorobiphenyl		10.21	10.21	10.11	10.31	0.00

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CALIBRATION VERIFICATION SUMMARY

Contract: CAMP02

Lab Code: CHEM **Case No.:** Q2100 **SAS No.:** Q2100 **SDG NO.:** Q2100

Continuing Calib Date: 05/22/2025 **Initial Calibration Date(s):** 05/19/2025 05/19/2025

Continuing Calib Time: 15:49 **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)	5.08	5.07	4.97	5.17	0.00
Aroclor-1016-4	(4)	5.12	5.12	5.02	5.22	0.00
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)	6.71	6.71	6.61	6.81	0.01
Aroclor-1260-4	(4)	7.18	7.18	7.08	7.28	0.00
Aroclor-1260-5	(5)	7.42	7.42	7.32	7.52	0.00
Tetrachloro-m-xylene		3.80	3.79	3.69	3.89	-0.01
Decachlorobiphenyl		8.82	8.82	8.72	8.92	0.00

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CALIBRATION VERIFICATION SUMMARY

Contract: CAMP02

Lab Code: CHEM **Case No.:** Q2100 **SAS No.:** Q2100 **SDG NO.:** Q2100

GC Column: ZB-MR1 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 05/19/2025 05/19/2025

Client Sample No.: CCAL04 **Date Analyzed:** 05/22/2025

Lab Sample No.: AR1660CCC500 **Data File :** PP072301.D **Time Analyzed:** 15:49

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	5.657	5.552	5.752	488.950	500.000	-2.2
Aroclor-1016-2	5.678	5.574	5.774	518.710	500.000	3.7
Aroclor-1016-3	5.740	5.636	5.836	513.260	500.000	2.7
Aroclor-1016-4	5.838	5.734	5.934	527.750	500.000	5.6
Aroclor-1016-5	6.131	6.027	6.227	526.130	500.000	5.2
Aroclor-1260-1	7.249	7.147	7.347	524.890	500.000	5.0
Aroclor-1260-2	7.502	7.401	7.601	507.290	500.000	1.5
Aroclor-1260-3	7.861	7.760	7.960	530.030	500.000	6.0
Aroclor-1260-4	8.086	7.985	8.185	536.070	500.000	7.2
Aroclor-1260-5	8.405	8.303	8.503	538.410	500.000	7.7
Decachlorobiphenyl	10.213	10.113	10.313	54.040	50.000	8.1
Tetrachloro-m-xylene	4.504	4.396	4.596	53.120	50.000	6.2

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CALIBRATION VERIFICATION SUMMARY

Contract: CAMP02

Lab Code: CHEM **Case No.:** Q2100 **SAS No.:** Q2100 **SDG NO.:** Q2100

GC Column: ZB-MR2 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 05/19/2025 05/19/2025

Client Sample No.: CCAL04 **Date Analyzed:** 05/22/2025

Lab Sample No.: AR1660CCC500 **Data File :** PP072301.D **Time Analyzed:** 15:49

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	4.879	4.777	4.977	528.970	500.000	5.8
Aroclor-1016-2	4.897	4.795	4.995	540.910	500.000	8.2
Aroclor-1016-3	5.075	4.973	5.173	550.960	500.000	10.2
Aroclor-1016-4	5.117	5.015	5.215	552.300	500.000	10.5
Aroclor-1016-5	5.331	5.229	5.429	569.350	500.000	13.9
Aroclor-1260-1	6.364	6.264	6.464	549.050	500.000	9.8
Aroclor-1260-2	6.552	6.453	6.653	518.530	500.000	3.7
Aroclor-1260-3	6.705	6.606	6.806	553.850	500.000	10.8
Aroclor-1260-4	7.176	7.077	7.277	549.370	500.000	9.9
Aroclor-1260-5	7.418	7.319	7.519	549.010	500.000	9.8
Decachlorobiphenyl	8.819	8.723	8.923	57.170	50.000	14.3
Tetrachloro-m-xylene	3.796	3.691	3.891	54.420	50.000	8.8

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Analytical Sequence

Client: CDM Smith **SDG No.:** Q2100

Project: South River WM Replacement **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	05/22/2025	10:10	PO111273.D	8.72	3.68
I.BLK	I.BLK	05/22/2025	11:23	PO111277.D	8.72	3.68
TP-16	Q2100-01	05/22/2025	12:54	PO111282.D	8.72	3.68
TP-22	Q2100-02	05/22/2025	13:12	PO111283.D	8.72	3.68
TP-21	Q2100-03	05/22/2025	13:29	PO111284.D	8.72	3.68
TP-21MS	Q2100-03MS	05/22/2025	13:48	PO111285.D	8.72	3.68
TP-21MSD	Q2100-03MSD	05/22/2025	14:06	PO111286.D	8.72	3.68
TP-45	Q2100-04	05/22/2025	14:25	PO111287.D	8.72	3.68
AR1660CCC500	AR1660CCC500	05/22/2025	15:37	PO111288.D	8.72	3.68
I.BLK	I.BLK	05/22/2025	17:09	PO111292.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

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Analytical Sequence

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
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	05/22/2025	10:03	PP072286.D	10.21	4.50
I.BLK	I.BLK	05/22/2025	11:41	PP072290.D	10.23	4.51
PB168124BL	PB168124BL	05/22/2025	11:58	PP072291.D	10.21	4.50
PB168124BS	PB168124BS	05/22/2025	12:14	PP072292.D	10.21	4.50
AR1660CCC500	AR1660CCC500	05/22/2025	15:49	PP072301.D	10.21	4.50
I.BLK	I.BLK	05/22/2025	17:12	PP072305.D	10.21	4.50

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Fax : 908 789 8922

Analytical Sequence

Client: CDM Smith **SDG No.:** Q2100

Project: South River WM Replacement **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	05/22/2025	10:10	PO111273.D	8.67	3.68
I.BLK	I.BLK	05/22/2025	11:23	PO111277.D	8.67	3.68
TP-16	Q2100-01	05/22/2025	12:54	PO111282.D	8.67	3.68
TP-22	Q2100-02	05/22/2025	13:12	PO111283.D	8.67	3.68
TP-21	Q2100-03	05/22/2025	13:29	PO111284.D	8.67	3.68
TP-21MS	Q2100-03MS	05/22/2025	13:48	PO111285.D	8.67	3.68
TP-21MSD	Q2100-03MSD	05/22/2025	14:06	PO111286.D	8.67	3.68
TP-45	Q2100-04	05/22/2025	14:25	PO111287.D	8.67	3.68
AR1660CCC500	AR1660CCC500	05/22/2025	15:37	PO111288.D	8.67	3.68
I.BLK	I.BLK	05/22/2025	17:09	PO111292.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

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Analytical Sequence

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
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	05/22/2025	10:03	PP072286.D	8.82	3.80
I.BLK	I.BLK	05/22/2025	11:41	PP072290.D	8.83	3.80
PB168124BL	PB168124BL	05/22/2025	11:58	PP072291.D	8.82	3.80
PB168124BS	PB168124BS	05/22/2025	12:14	PP072292.D	8.82	3.80
AR1660CCC500	AR1660CCC500	05/22/2025	15:49	PP072301.D	8.82	3.80
I.BLK	I.BLK	05/22/2025	17:12	PP072305.D	8.82	3.80

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Fax : 908 789 8922

IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

SAMPLE NO.

TP-21MS

Contract: CAMP02

Lab Code: CHEM Case No.: Q2100 SAS No.: Q2100 SDG NO.: Q2100

Lab Sample ID: Q2100-03MS Date(s) Analyzed: 05/22/2025 05/22/2025

Instrument ID (1): ECD_O Instrument ID (2): ECD_O

GC Column: (1): ZB-MR1 ID: 0.32 (mm) GC Column:(2): ZB-MR2 ID: 0.32 (mm)

Data file PO111285.D

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%RPD
Aroclor-1016	1	4.77	4.72	4.82	172		
	2	4.789	4.739	4.839	165		
	3	4.846	4.796	4.896	164		
COLUMN 1	4	4.966	4.916	5.016	164		
	5	5.224	5.174	5.274	161	165	
	1	4.757	4.707	4.807	170		
	2	4.775	4.725	4.825	168		
	3	4.951	4.901	5.001	164		
	4	4.993	4.943	5.043	161		
COLUMN 2	5	5.206	5.156	5.256	151	163	1.22
Aroclor-1260	1	6.265	6.215	6.315	175		
	2	6.453	6.403	6.503	157		
	3	6.821	6.771	6.871	122		
COLUMN 1	4	7.08	7.03	7.13	127		
	5	7.323	7.273	7.373	125	141	
	1	6.237	6.187	6.287	161		
	2	6.424	6.374	6.474	153		
	3	6.577	6.527	6.627	140		
	4	7.048	6.998	7.098	129		
COLUMN 2	5	7.29	7.24	7.34	127	142	0.71

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

IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

SAMPLE NO.

TP-21MSD

Contract: CAMP02

Lab Code: CHEM Case No.: Q2100 SAS No.: Q2100 SDG NO.: Q2100

Lab Sample ID: Q2100-03MSD Date(s) Analyzed: 05/22/2025 05/22/2025

Instrument ID (1): ECD_O Instrument ID (2): ECD_O

GC Column: (1): ZB-MR1 ID: 0.32 (mm) GC Column:(2): ZB-MR2 ID: 0.32 (mm)

Data file PO111286.D

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%RPD
Aroclor-1016	1	4.77	4.72	4.82	157		
	2	4.789	4.739	4.839	150		
	3	4.846	4.796	4.896	148		
COLUMN 1	4	4.966	4.916	5.016	151		
	5	5.224	5.174	5.274	144	150	
	1	4.756	4.706	4.806	155		
	2	4.775	4.725	4.825	151		
	3	4.95	4.9	5	148		
	4	4.993	4.943	5.043	145		
COLUMN 2	5	5.205	5.155	5.255	136	147	2.02
Aroclor-1260	1	6.264	6.214	6.314	147		
	2	6.453	6.403	6.503	136		
	3	6.82	6.77	6.87	106		
COLUMN 1	4	7.08	7.03	7.13	110		
	5	7.323	7.273	7.373	109	122	
	1	6.237	6.187	6.287	140		
	2	6.424	6.374	6.474	136		
	3	6.576	6.526	6.626	122		
	4	7.048	6.998	7.098	114		
COLUMN 2	5	7.289	7.239	7.339	113	125	2.43

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Fax : 908 789 8922

IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

SAMPLE NO.
PB168124BS

Contract: CAMP02
Lab Code: CHEM Case No.: Q2100 SAS No.: Q2100 SDG NO.: Q2100
Lab Sample ID: PB168124BS Date(s) Analyzed: 05/22/2025 05/22/2025
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 PP072292.D

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%RPD
Aroclor-1016	1	5.654	5.604	5.704	122		
	2	5.676	5.626	5.726	129		
	3	5.738	5.688	5.788	126		
COLUMN 1	4	5.835	5.785	5.885	130		
	5	6.128	6.078	6.178	126	127	
	1	4.88	4.83	4.93	132		
	2	4.898	4.848	4.948	132		
	3	5.075	5.025	5.125	135		
	4	5.117	5.067	5.167	136		
COLUMN 2	5	5.33	5.28	5.38	131	133	4.62
Aroclor-1260	1	7.247	7.197	7.297	134		
	2	7.5	7.45	7.55	133		
	3	7.859	7.809	7.909	117		
COLUMN 1	4	8.083	8.033	8.133	125		
	5	8.402	8.352	8.452	121	126	
	1	6.364	6.314	6.414	142		
	2	6.553	6.503	6.603	135		
	3	6.705	6.655	6.755	144		
	4	7.176	7.126	7.226	125		
COLUMN 2	5	7.418	7.368	7.468	121	133	5.41

SAMPLE RAW DATA

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO052225\
Data File : PO111282.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 May 2025 12:54
Operator : YP/AJ
Sample : Q2100-01
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
ECD_O
ClientSampleId :
TP-16

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 22 13:56:10 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...	3.681	3.677	108.5E6	90244050	18.444	16.554
2)	SA Decachlor...	8.722	8.672	65126088	25395707	12.614	13.726
	Target Compounds						

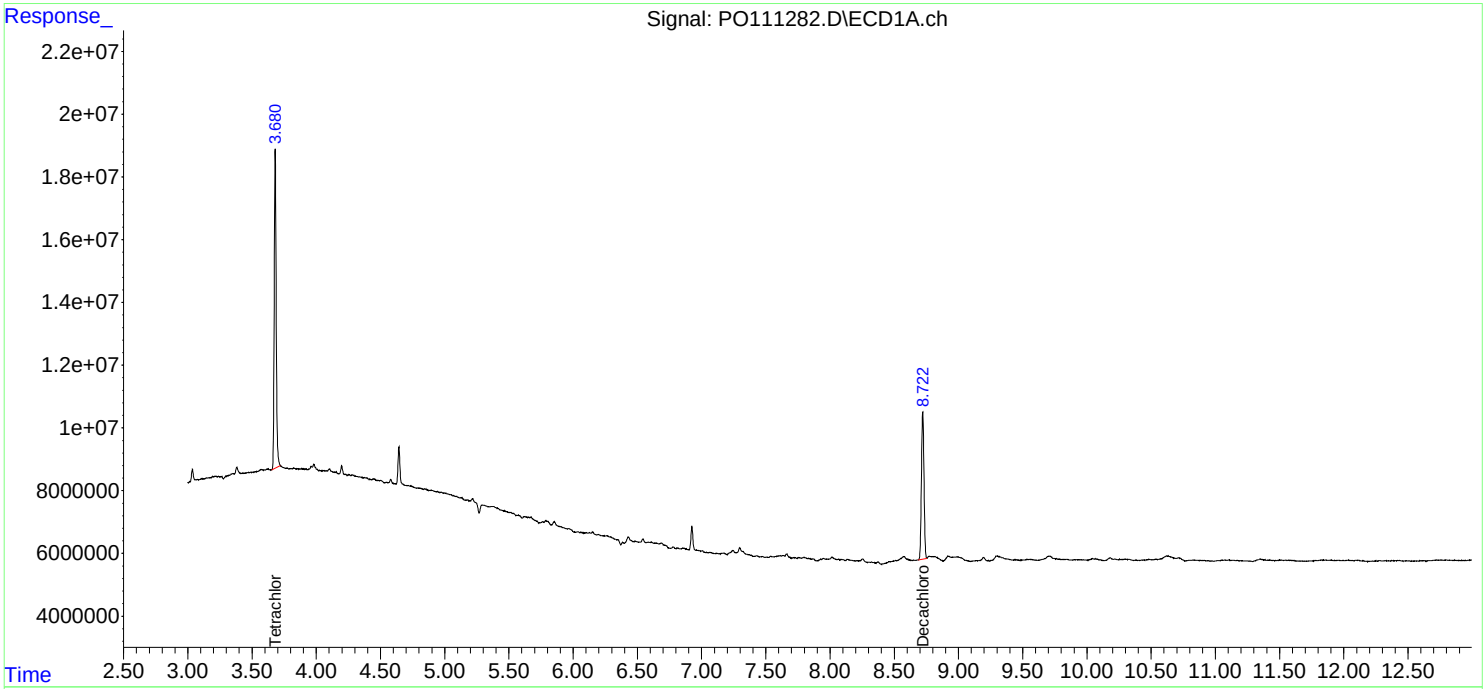
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

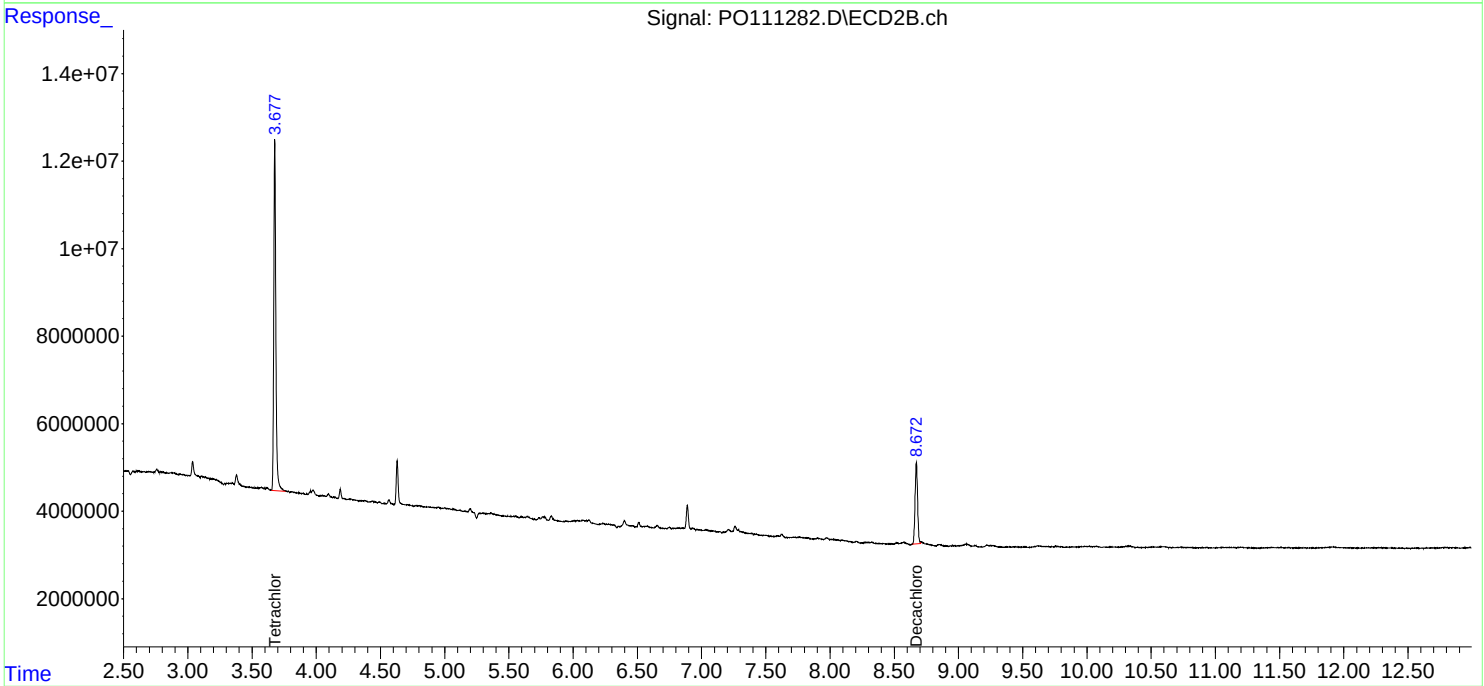
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO052225\
Data File : PO111282.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 May 2025 12:54
Operator : YP/AJ
Sample : Q2100-01
Misc :
ALS Vial : 11 Sample Multiplier: 1

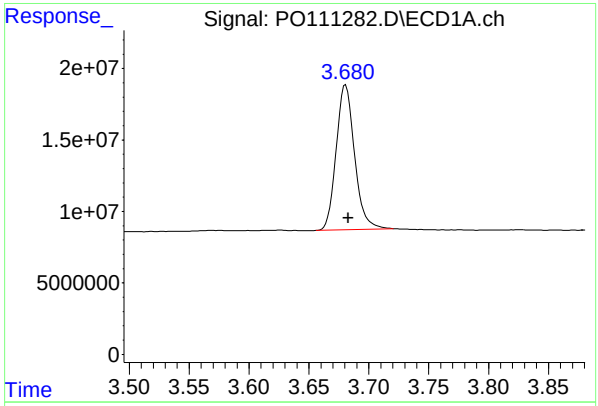
Instrument :
ECD_O
ClientSampleId :
TP-16

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 22 13:56:10 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



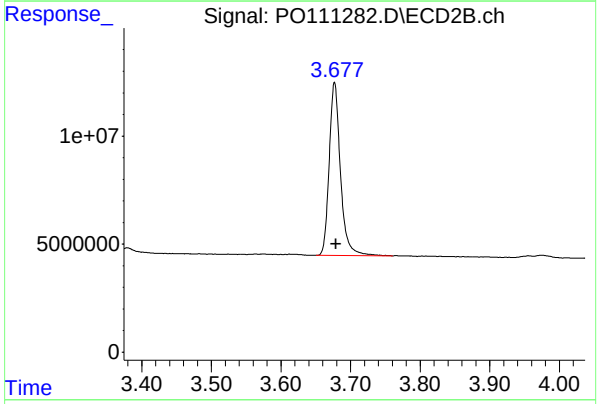




#1 Tetrachloro-m-xylene

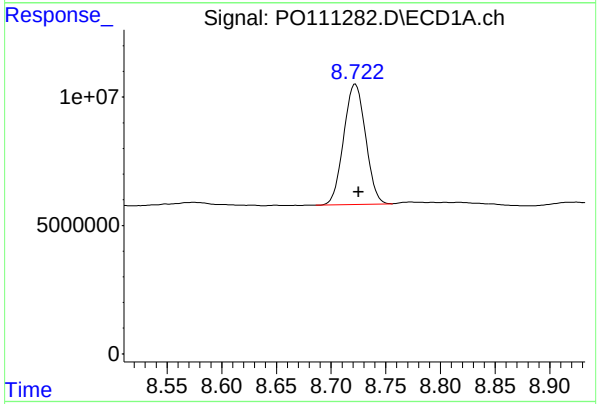
R.T.: 3.681 min
Delta R.T.: -0.002 min
Response: 108507888
Conc: 18.44 ng/ml

Instrument :
ECD_O
ClientSampleId :
TP-16



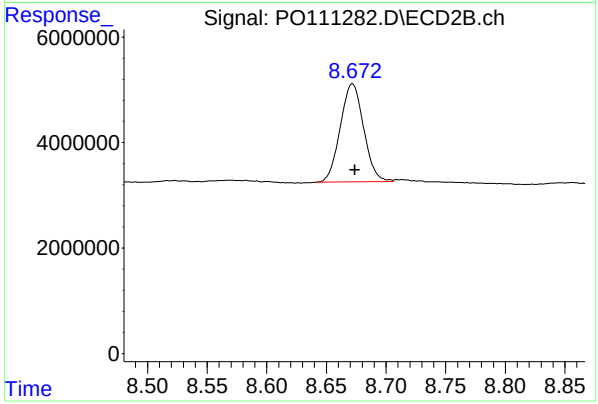
#1 Tetrachloro-m-xylene

R.T.: 3.677 min
Delta R.T.: -0.002 min
Response: 90244050
Conc: 16.55 ng/ml



#2 Decachlorobiphenyl

R.T.: 8.722 min
Delta R.T.: -0.003 min
Response: 65126088
Conc: 12.61 ng/ml



#2 Decachlorobiphenyl

R.T.: 8.672 min
Delta R.T.: -0.002 min
Response: 25395707
Conc: 13.73 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO052225\
Data File : PO111283.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 May 2025 13:12
Operator : YP/AJ
Sample : Q2100-02
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
ECD_O
ClientSampleId :
TP-22

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 22 13:56:50 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...	3.681	3.677	110.3E6	93983848	18.747	17.240
2)	SA Decachlor...	8.723	8.671	79068224	30122438	15.315	16.281
	Target Compounds						

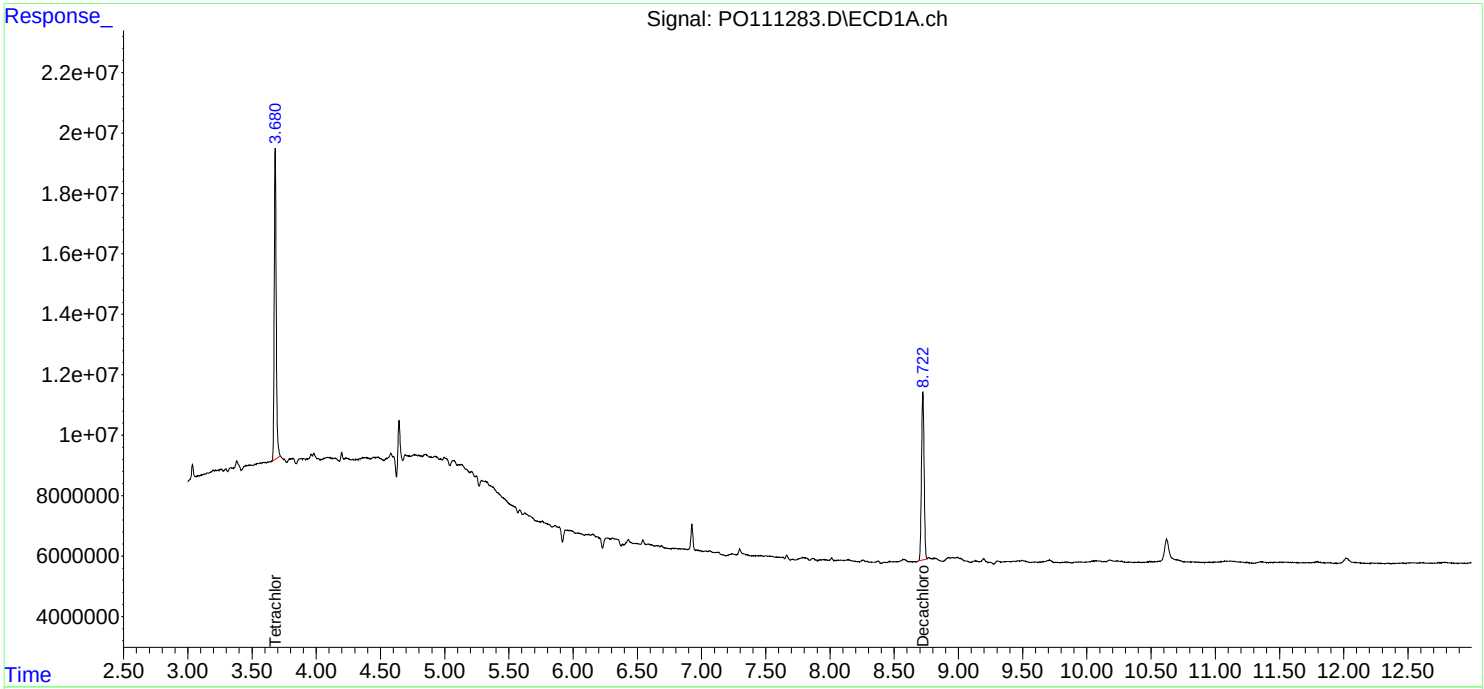
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

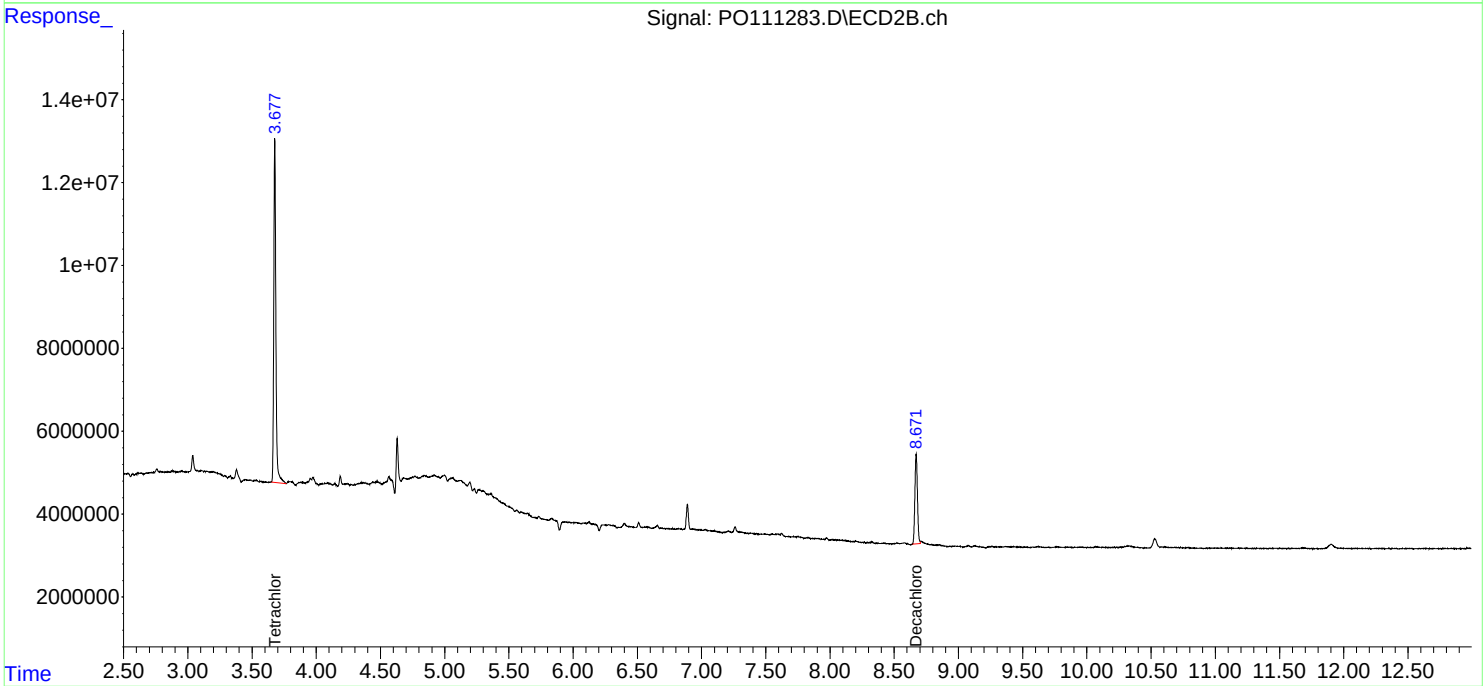
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO052225\
Data File : PO111283.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 May 2025 13:12
Operator : YP/AJ
Sample : Q2100-02
Misc :
ALS Vial : 12 Sample Multiplier: 1

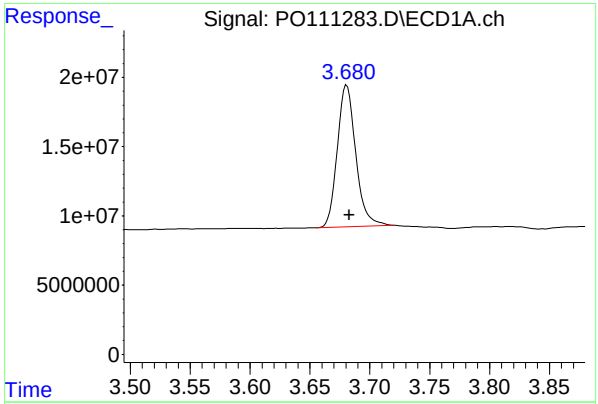
Instrument :
ECD_O
ClientSampleId :
TP-22

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 22 13:56:50 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



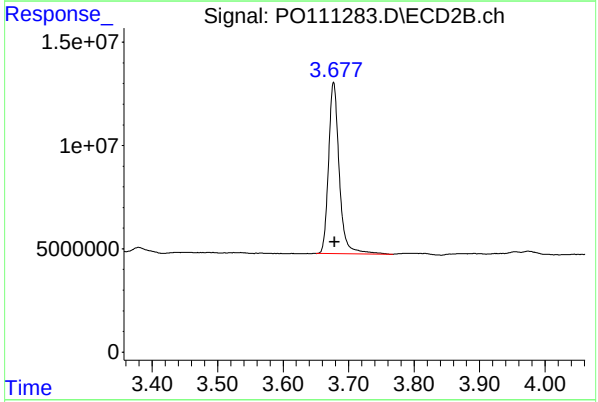




#1 Tetrachloro-m-xylene

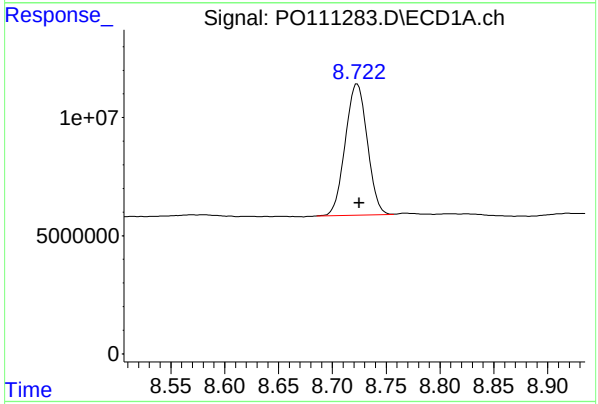
R.T.: 3.681 min
Delta R.T.: -0.002 min
Response: 110290481
Conc: 18.75 ng/ml

Instrument :
ECD_O
ClientSampleId :
TP-22



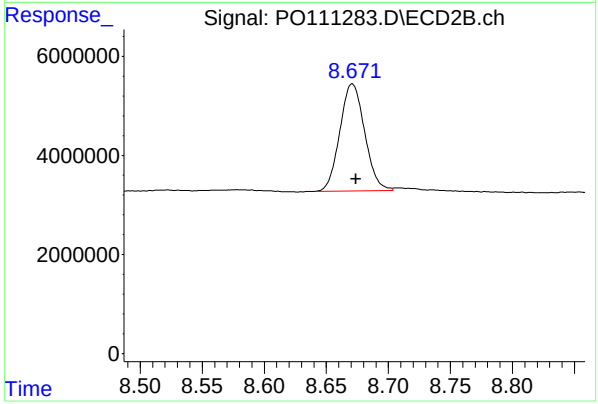
#1 Tetrachloro-m-xylene

R.T.: 3.677 min
Delta R.T.: -0.002 min
Response: 93983848
Conc: 17.24 ng/ml



#2 Decachlorobiphenyl

R.T.: 8.723 min
Delta R.T.: -0.002 min
Response: 79068224
Conc: 15.31 ng/ml



#2 Decachlorobiphenyl

R.T.: 8.671 min
Delta R.T.: -0.003 min
Response: 30122438
Conc: 16.28 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO052225\
Data File : PO111284.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 May 2025 13:29
Operator : YP/AJ
Sample : Q2100-03
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
ECD_O
ClientSampleId :
TP-21

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 22 13:57:35 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...	3.679	3.678	122.3E6	103.8E6	20.793	19.035
2)	SA Decachlor...	8.722	8.672	83694156	33023854	16.211	17.849
	Target Compounds						

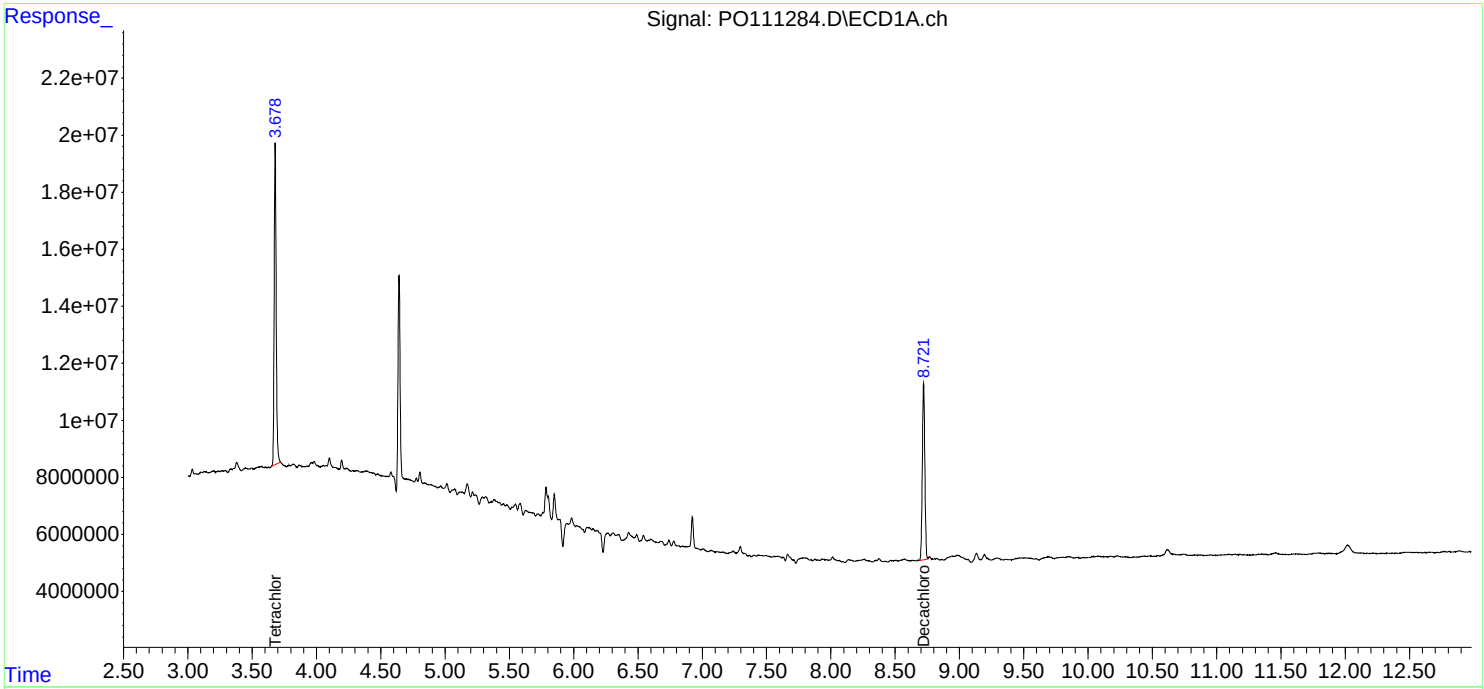
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

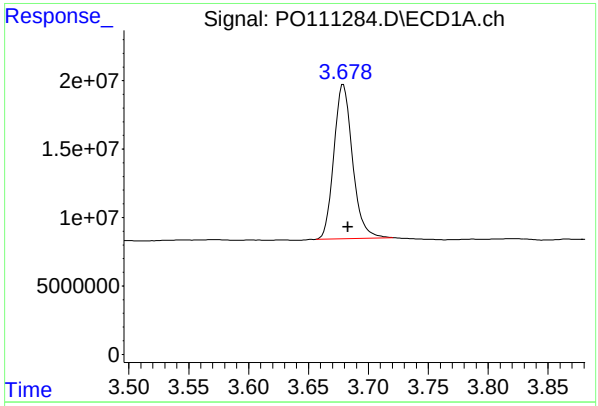
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO052225\
Data File : PO111284.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 May 2025 13:29
Operator : YP/AJ
Sample : Q2100-03
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
ECD_O
ClientSampleId :
TP-21

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 22 13:57:35 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

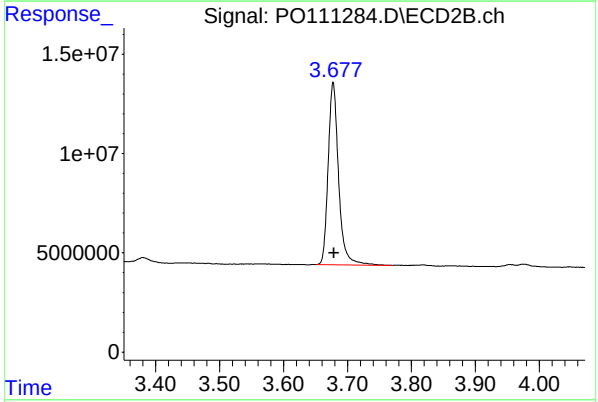




#1 Tetrachloro-m-xylene

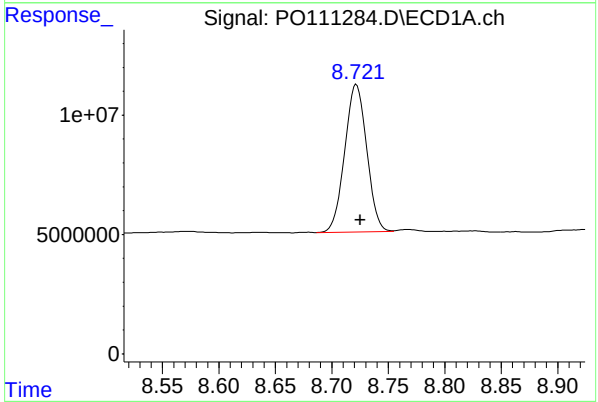
R.T.: 3.679 min
Delta R.T.: -0.004 min
Response: 122328412
Conc: 20.79 ng/ml

Instrument :
ECD_O
ClientSampleId :
TP-21



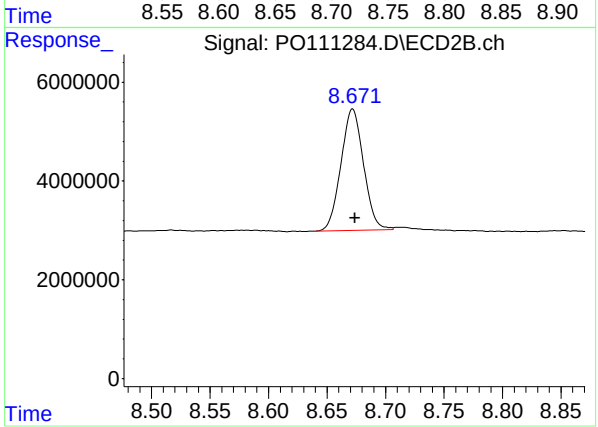
#1 Tetrachloro-m-xylene

R.T.: 3.678 min
Delta R.T.: -0.001 min
Response: 103769322
Conc: 19.04 ng/ml



#2 Decachlorobiphenyl

R.T.: 8.722 min
Delta R.T.: -0.003 min
Response: 83694156
Conc: 16.21 ng/ml



#2 Decachlorobiphenyl

R.T.: 8.672 min
Delta R.T.: -0.002 min
Response: 33023854
Conc: 17.85 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO052225\
Data File : PO111287.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 May 2025 14:25
Operator : YP/AJ
Sample : Q2100-04
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
ECD_O
ClientSampleId :
TP-45

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 22 15:15:40 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...	3.681	3.677	110.2E6	91510404	18.739	16.786
2)	SA Decachlor...	8.721	8.672	74600695	30802096	14.449	16.648
	Target Compounds						

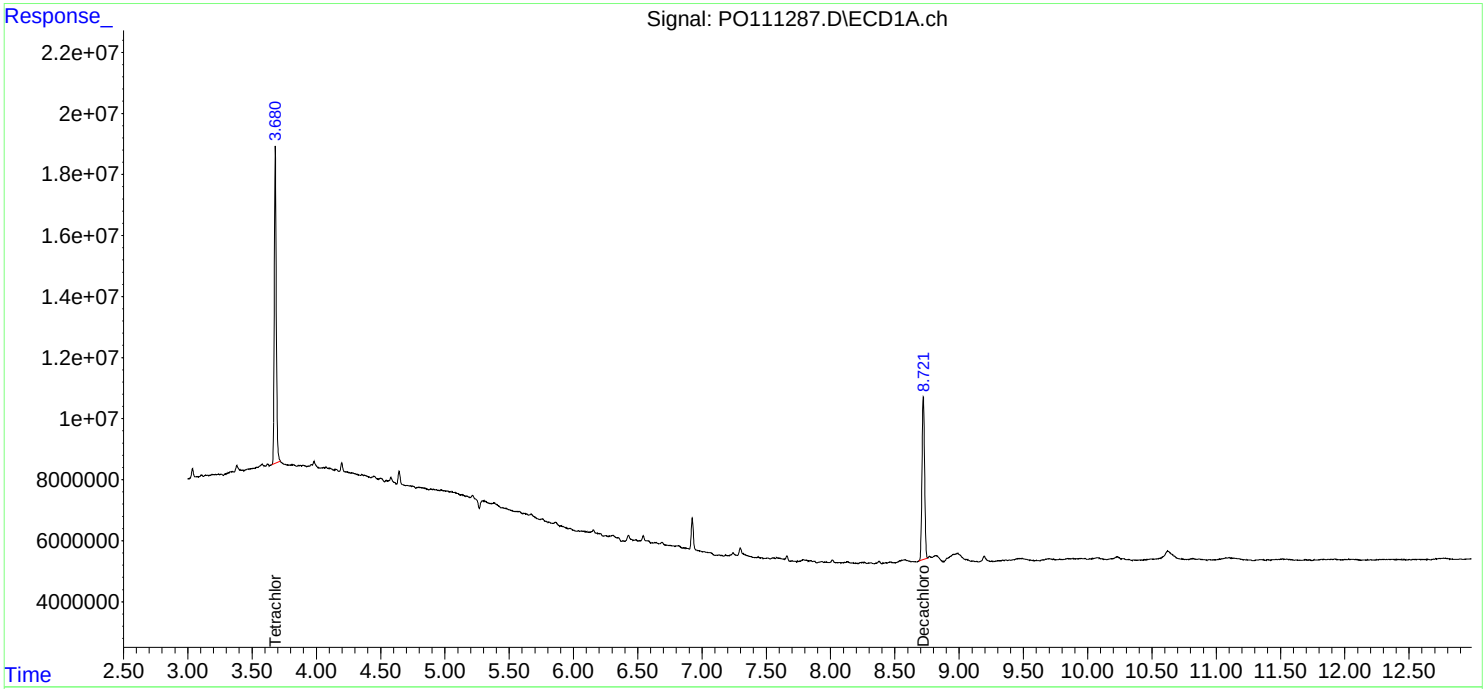
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

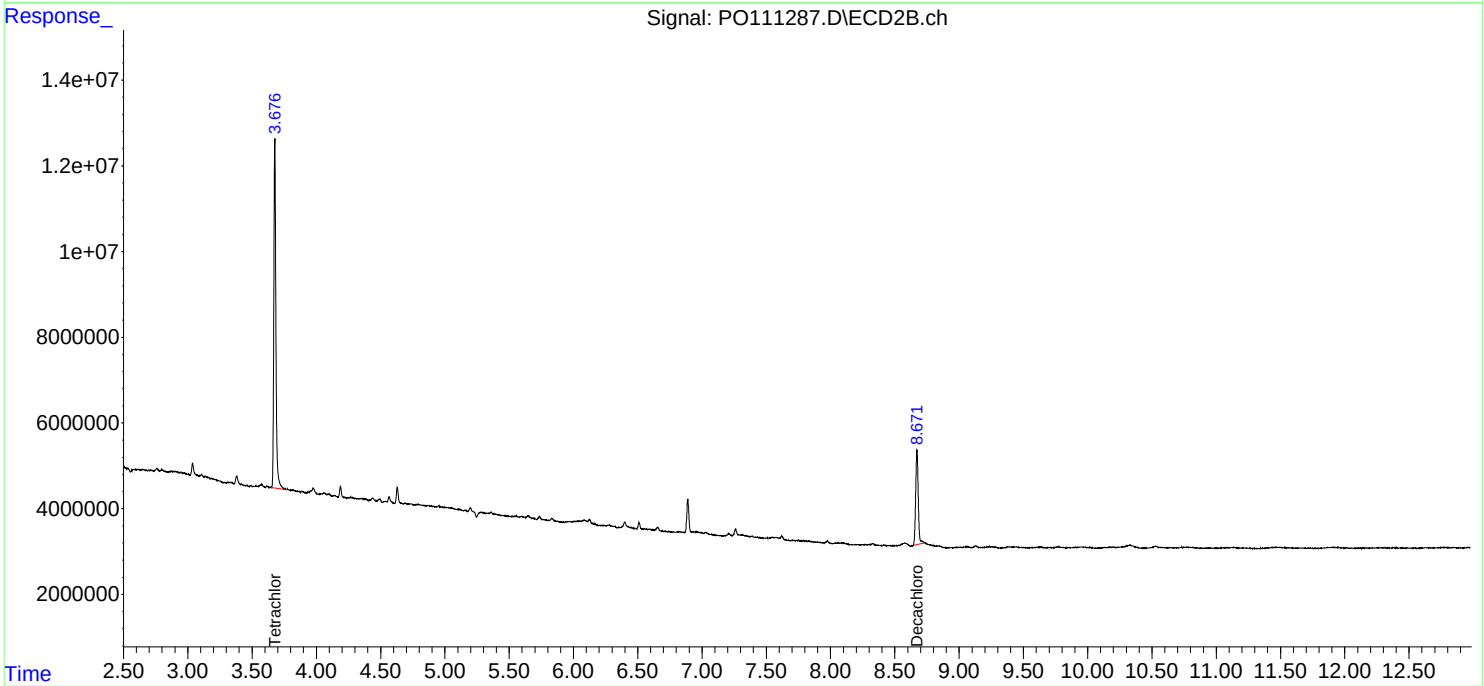
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO052225\
Data File : PO111287.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 May 2025 14:25
Operator : YP/AJ
Sample : Q2100-04
Misc :
ALS Vial : 16 Sample Multiplier: 1

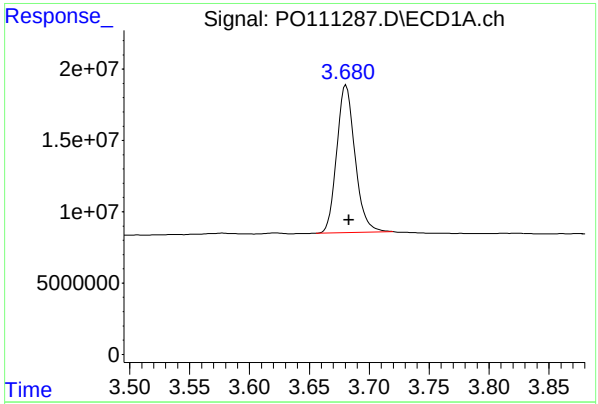
Instrument :
ECD_O
ClientSampleId :
TP-45

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 22 15:15:40 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



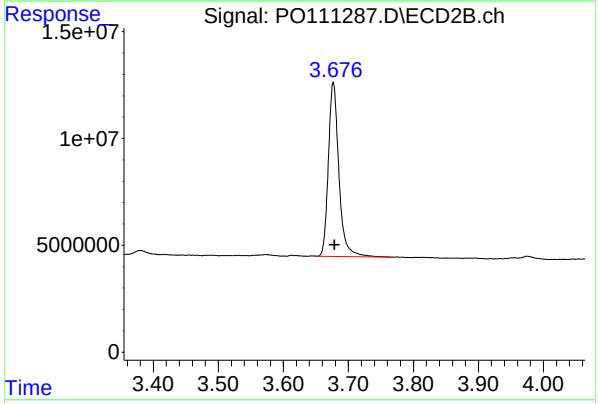




#1 Tetrachloro-m-xylene

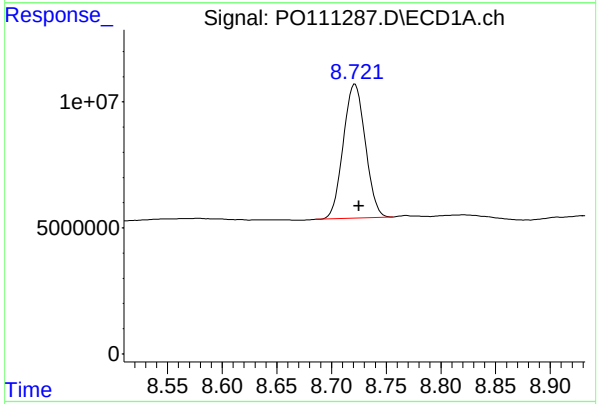
R.T.: 3.681 min
Delta R.T.: -0.002 min
Response: 110247485
Conc: 18.74 ng/ml

Instrument :
ECD_O
ClientSampleId :
TP-45



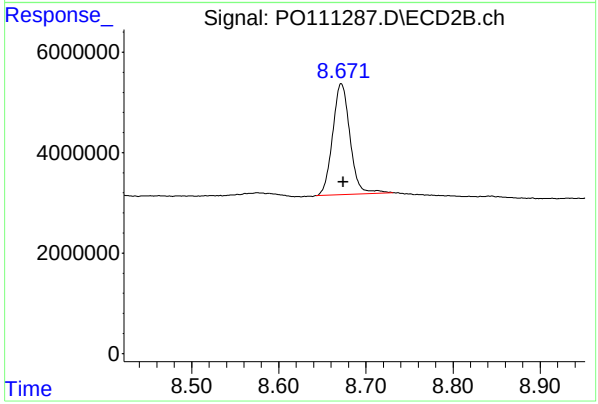
#1 Tetrachloro-m-xylene

R.T.: 3.677 min
Delta R.T.: -0.002 min
Response: 91510404
Conc: 16.79 ng/ml



#2 Decachlorobiphenyl

R.T.: 8.721 min
Delta R.T.: -0.004 min
Response: 74600695
Conc: 14.45 ng/ml



#2 Decachlorobiphenyl

R.T.: 8.672 min
Delta R.T.: -0.002 min
Response: 30802096
Conc: 16.65 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP052225\
Data File : PP072291.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 May 2025 11:58
Operator : YP\AJ
Sample : PB168124BL
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
ECD_P
ClientSampleId :
PB168124BL

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 22 12:52:13 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP051925.M
Quant Title : GC EXTRACTABLES
QLast Update : Tue May 20 03:29:33 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	3.798	40736432	34167394	20.259	21.377
2)	SA Decachlor...	10.210	8.821	33611959	24334558	20.632	22.987
	Target Compounds						

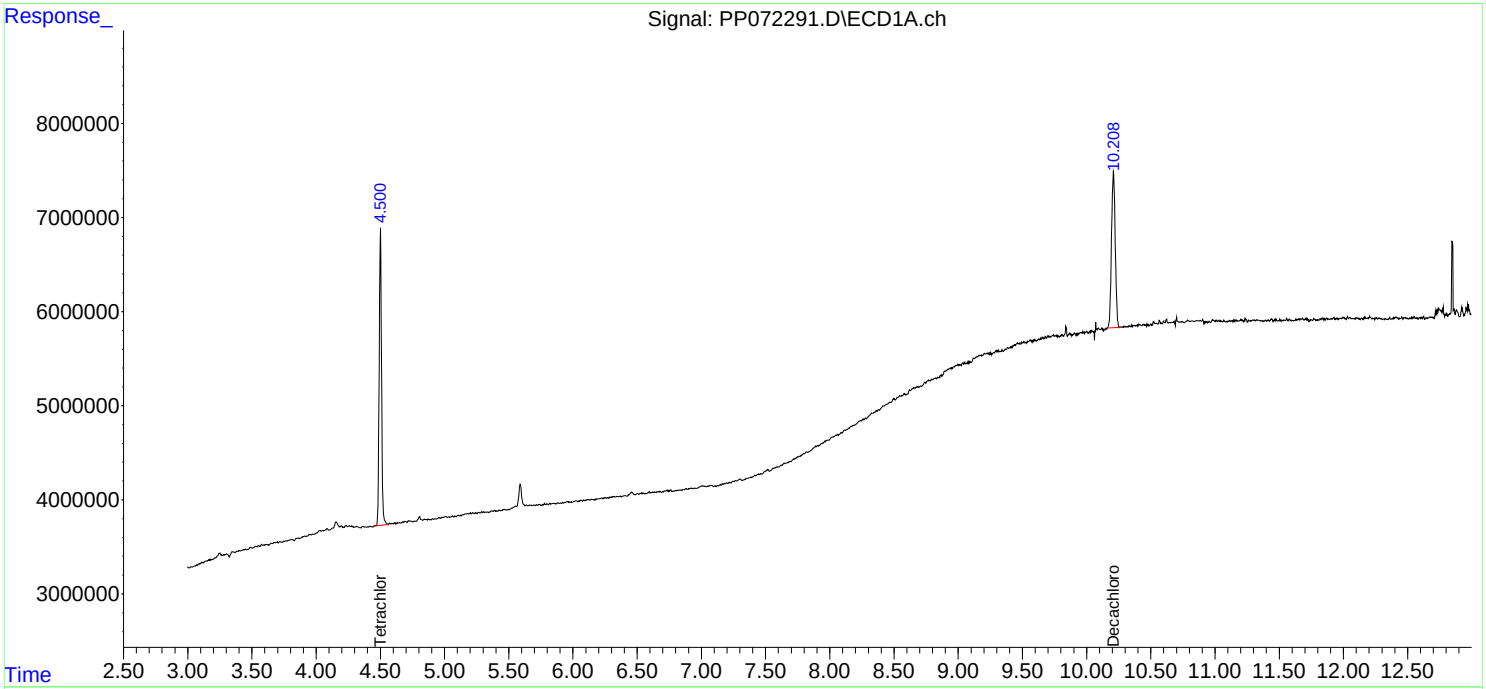
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

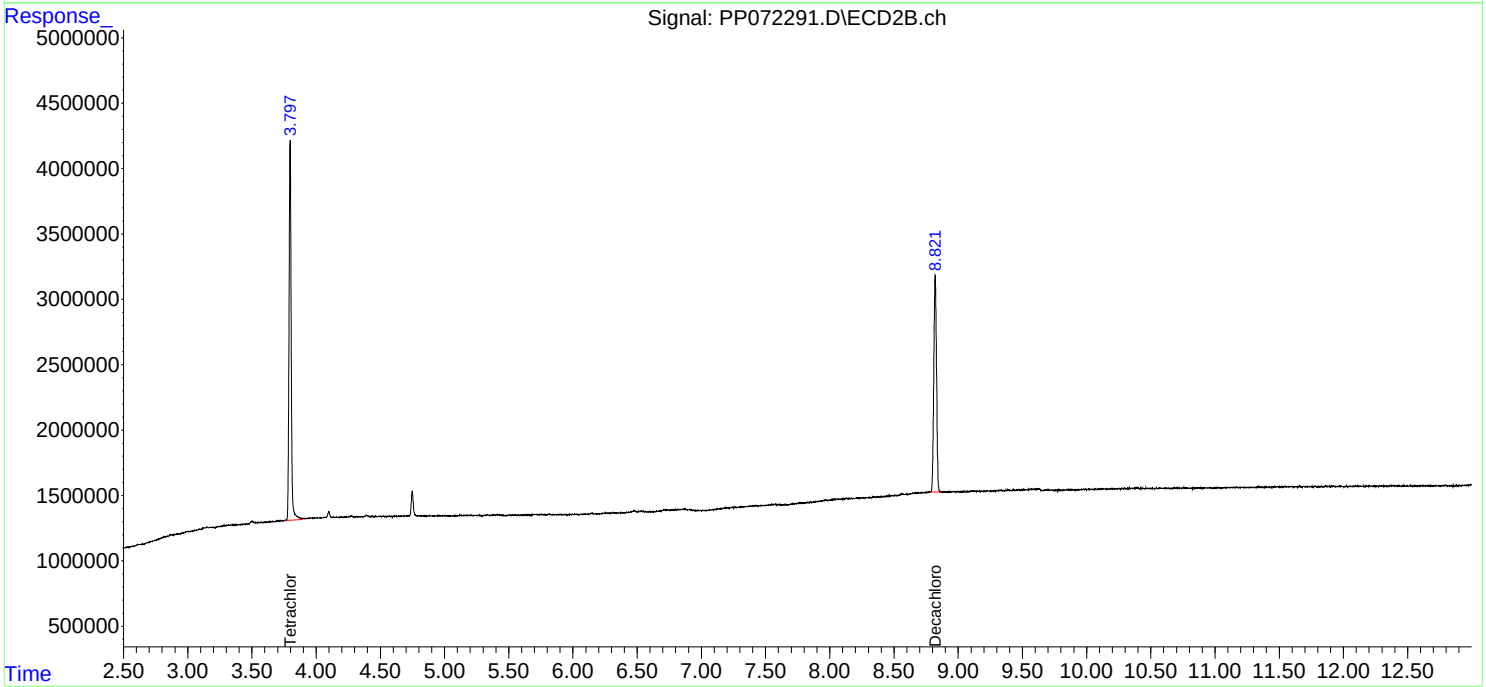
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP052225\
Data File : PP072291.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 May 2025 11:58
Operator : YP\AJ
Sample : PB168124BL
Misc :
ALS Vial : 7 Sample Multiplier: 1

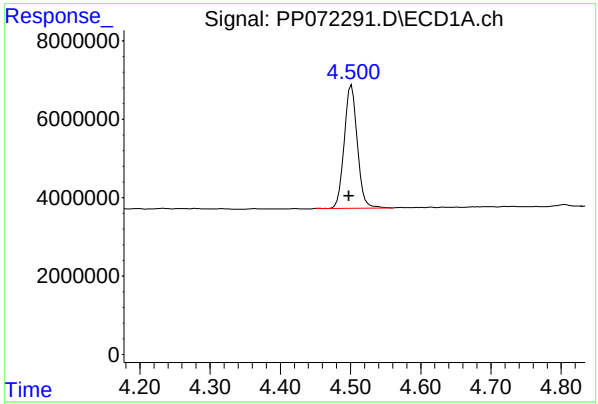
Instrument :
ECD_P
ClientSampleId :
PB168124BL

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 22 12:52:13 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP051925.M
Quant Title : GC EXTRACTABLES
QLast Update : Tue May 20 03:29:33 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



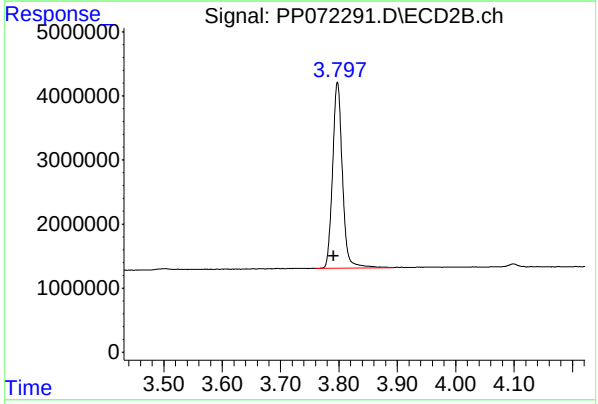




#1 Tetrachloro-m-xylene

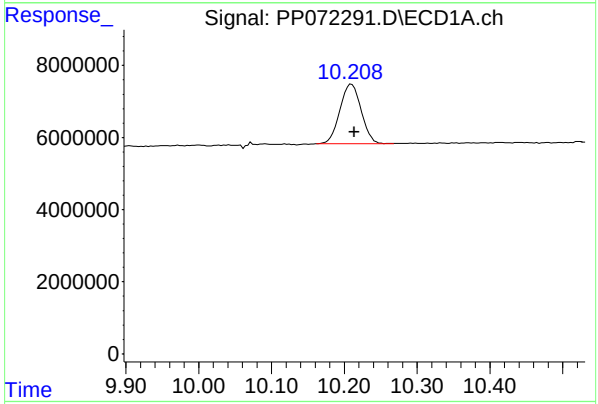
R.T.: 4.501 min
Delta R.T.: 0.003 min
Response: 40736432
Conc: 20.26 ng/ml

Instrument :
ECD_P
ClientSampleId :
PB168124BL



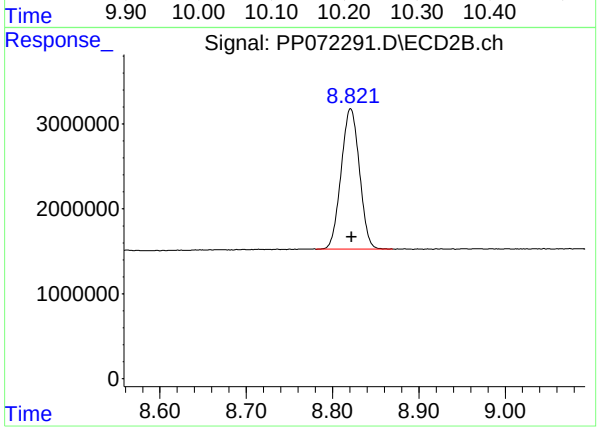
#1 Tetrachloro-m-xylene

R.T.: 3.798 min
Delta R.T.: 0.006 min
Response: 34167394
Conc: 21.38 ng/ml



#2 Decachlorobiphenyl

R.T.: 10.210 min
Delta R.T.: -0.004 min
Response: 33611959
Conc: 20.63 ng/ml



#2 Decachlorobiphenyl

R.T.: 8.821 min
Delta R.T.: -0.001 min
Response: 24334558
Conc: 22.99 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP052225\
Data File : PP072292.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 May 2025 12:14
Operator : YP\AJ
Sample : PB168124BS
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
ECD_P
ClientSampleId :
PB168124BS

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 22 14:05:36 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP051925.M
Quant Title : GC EXTRACTABLES
QLast Update : Tue May 20 03:29:33 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	41059968	32425196	20.420	20.287
2)	SA Decachlor...	10.208	8.820	34303123	23926252	21.056	22.602
	Target Compounds						
3)	L1 AR-1016-1	5.654	4.880	27572985	24428538	367.230	397.668
4)	L1 AR-1016-2	5.676	4.898	41509524	34845753	387.970	396.925
5)	L1 AR-1016-3	5.738	5.075	24725247	19371698	377.111	406.503
6)	L1 AR-1016-4	5.835	5.117	20862690	15504977	391.641	407.540
7)	L1 AR-1016-5	6.128	5.330	18462617	19642319	377.488	394.231
31)	L7 AR-1260-1	7.247	6.364	37708337	34076126	402.889	427.267
32)	L7 AR-1260-2	7.500	6.553	57371663	41061833	399.831	404.860
33)	L7 AR-1260-3	7.859	6.705	39994205	37630142	351.224	433.016
34)	L7 AR-1260-4	8.083	7.176	40108316	27121441	373.787	376.211
35)	L7 AR-1260-5	8.402	7.418	85664495	62891485	361.969	362.228

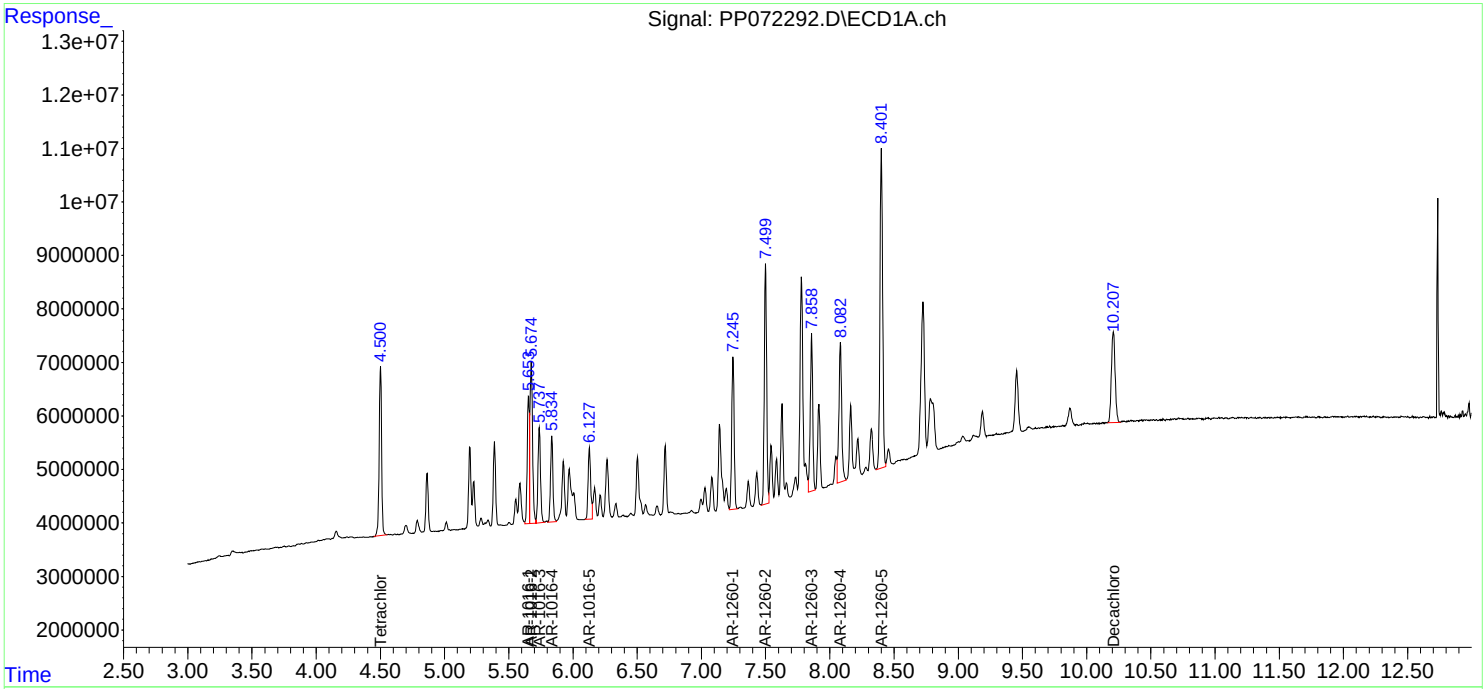
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

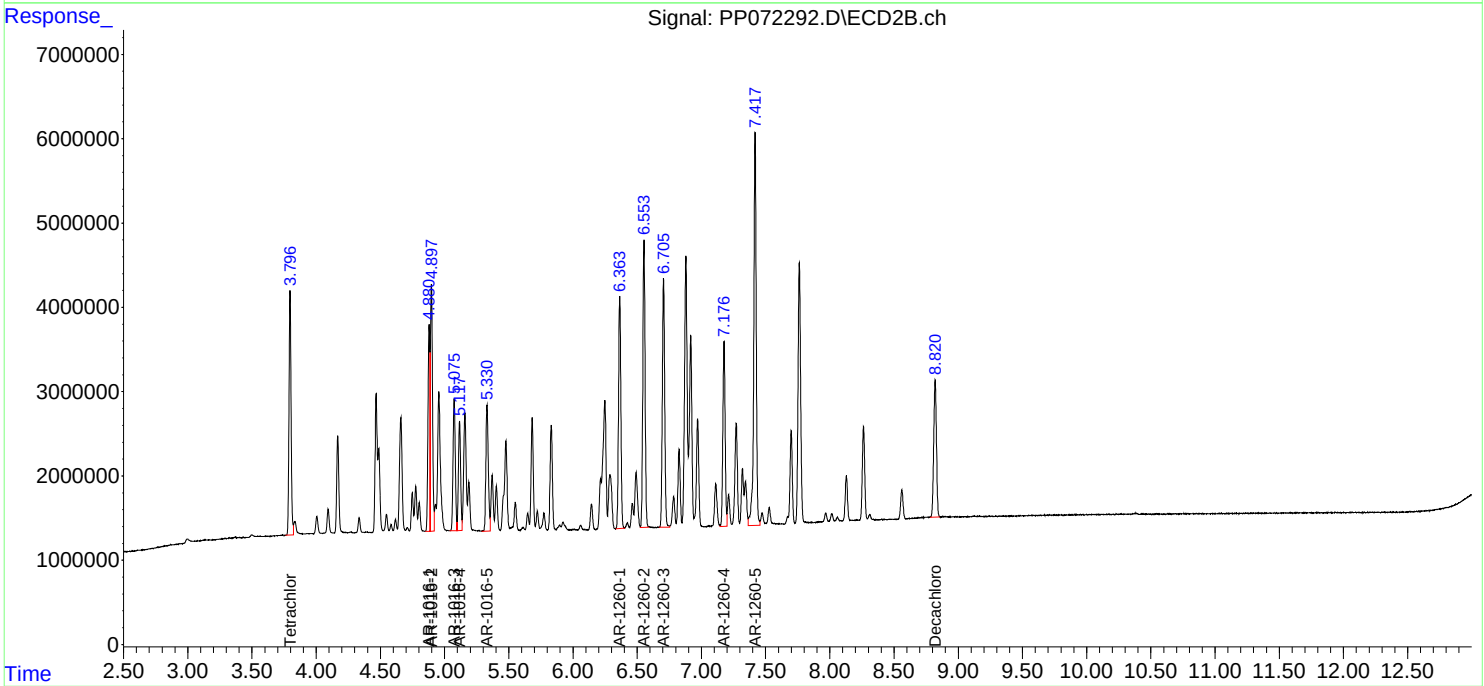
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP052225\
Data File : PP072292.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 May 2025 12:14
Operator : YP\AJ
Sample : PB168124BS
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
ECD_P
ClientSampleId :
PB168124BS

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 22 14:05:36 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP051925.M
Quant Title : GC EXTRACTABLES
QLast Update : Tue May 20 03:29:33 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_O\Data\PO052225\
Data File : PO111285.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 May 2025 13:48
Operator : YP/AJ
Sample : Q2100-03MS
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
ECD_O
ClientSampleId :
TP-21MS

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 05/23/2025
Supervised By :mohammad ahmed 05/24/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 22 15:14:23 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...	3.681	3.677	113.3E6	96330487	19.251	17.671
2)	SA Decachlor...	8.723	8.672	81060470	33566078	15.701	18.142
	Target Compounds						
3)	L1 AR-1016-1	4.770	4.757	90952318	76074943	404.132m	398.450
4)	L1 AR-1016-2	4.789	4.775	123.5E6	109.5E6	387.382m	395.197
5)	L1 AR-1016-3	4.846	4.951	83555968	56436967	384.831m	386.356
6)	L1 AR-1016-4	4.966	4.993	67052760	45393664	385.033m	378.001
7)	L1 AR-1016-5	5.224	5.206	66403354	54887635	377.310	355.489
31)	L7 AR-1260-1	6.265	6.237	125.5E6	94555739	411.566	378.392
32)	L7 AR-1260-2	6.453	6.424	141.6E6	106.1E6	369.698	360.609
33)	L7 AR-1260-3	6.821	6.577	99664028	94045071	285.908	328.005
34)	L7 AR-1260-4	7.080	7.048	83613163	60952880	298.659	303.606
35)	L7 AR-1260-5	7.323	7.290	211.9E6	137.3E6	294.358	298.708

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

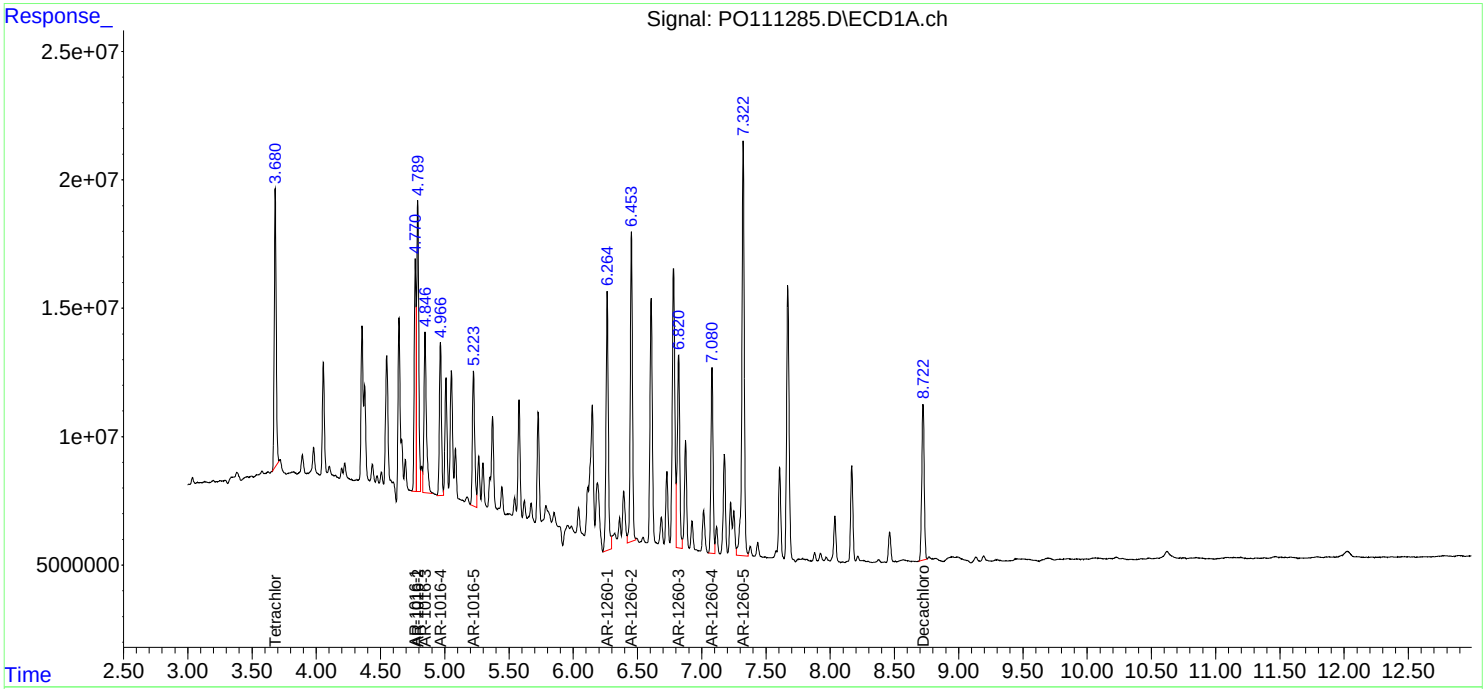
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO052225\
Data File : PO111285.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 May 2025 13:48
Operator : YP/AJ
Sample : Q2100-03MS
Misc :
ALS Vial : 14 Sample Multiplier: 1

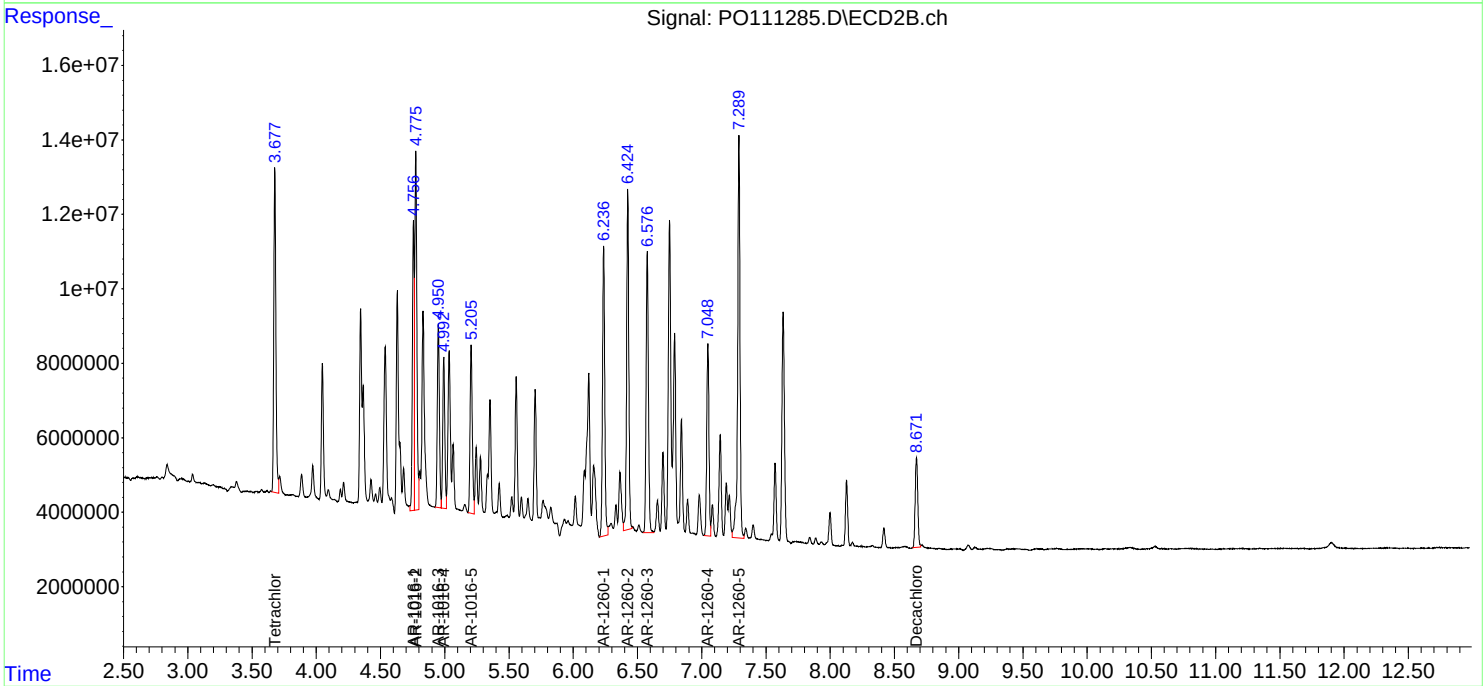
Instrument :
ECD_O
ClientSampleId :
TP-21MS

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 05/23/2025
Supervised By :mohammad ahmed 05/24/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 22 15:14:23 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





Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO052225\
Data File : PO111286.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 May 2025 14:06
Operator : YP/AJ
Sample : Q2100-03MSD
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
ECD_O
ClientSampleId :
TP-21MSD

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 05/23/2025
Supervised By :mohammad ahmed 05/24/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 22 15:15:01 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...	3.681	3.677	110.8E6	94712880	18.830	17.374
2)	SA Decachlor...	8.722	8.673	73404685	31147362	14.218	16.835
	Target Compounds						
3)	L1 AR-1016-1	4.770	4.756	83263123	69527815	369.967m	364.159
4)	L1 AR-1016-2	4.789	4.775	112.2E6	98532480	351.897m	355.553
5)	L1 AR-1016-3	4.846	4.950	75505655	50752626	347.754m	347.442
6)	L1 AR-1016-4	4.966	4.993	61819879	40810728	354.984m	339.838
7)	L1 AR-1016-5	5.224	5.205	59398094	49437385	337.506	320.190
31)	L7 AR-1260-1	6.264	6.237	105.6E6	82410430	346.409	329.789
32)	L7 AR-1260-2	6.453	6.424	122.0E6	93701479	318.591	318.401
33)	L7 AR-1260-3	6.820	6.576	86733605	82419576	248.814	287.458
34)	L7 AR-1260-4	7.080	7.048	72390500	53624150	258.573	267.101
35)	L7 AR-1260-5	7.323	7.289	184.3E6	121.6E6	256.060	264.627

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

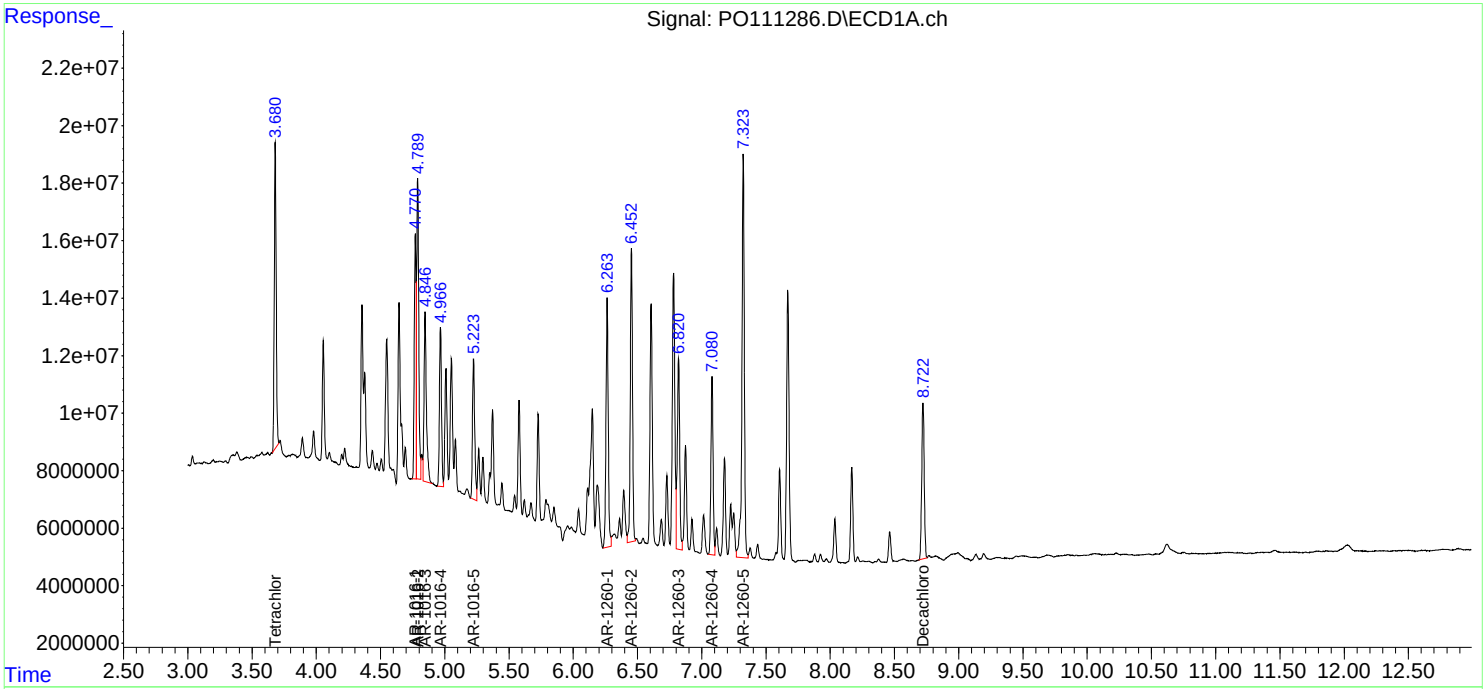
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO052225\
Data File : PO111286.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 May 2025 14:06
Operator : YP/AJ
Sample : Q2100-03MSD
Misc :
ALS Vial : 15 Sample Multiplier: 1

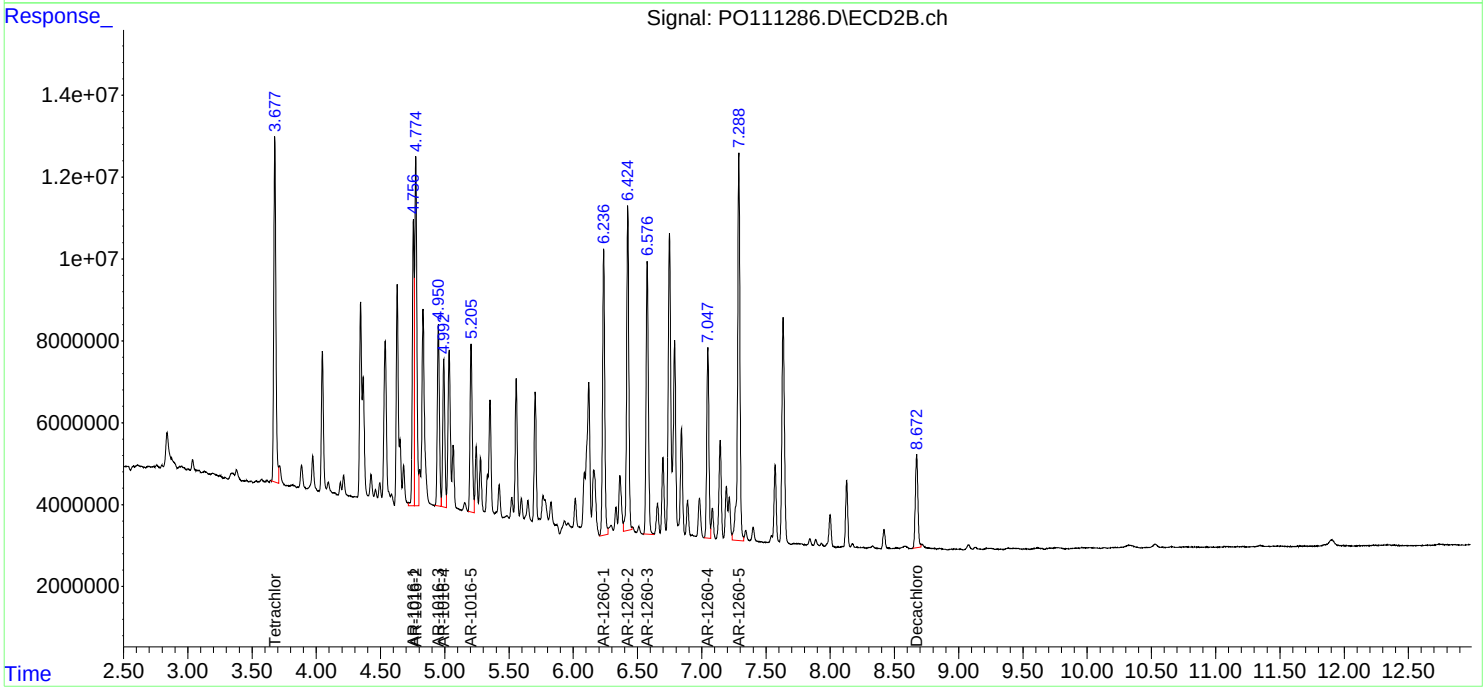
Instrument :
ECD_O
ClientSampleId :
TP-21MSD

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 05/23/2025
Supervised By :mohammad ahmed 05/24/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 22 15:15:01 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





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

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

Manual Integration Report

Sequence:	PO052225	Instrument	ECD_o

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q2100-03MS	PO111285.D	AR-1016-1	yogesh	5/23/2025 7:21:15 AM	mohammad	5/24/2025 4:23:38	Peak Integrated by Software
Q2100-03MS	PO111285.D	AR-1016-2	yogesh	5/23/2025 7:21:15 AM	mohammad	5/24/2025 4:23:38	Peak Integrated by Software
Q2100-03MS	PO111285.D	AR-1016-3	yogesh	5/23/2025 7:21:15 AM	mohammad	5/24/2025 4:23:38	Peak Integrated by Software
Q2100-03MS	PO111285.D	AR-1016-4	yogesh	5/23/2025 7:21:15 AM	mohammad	5/24/2025 4:23:38	Peak Integrated by Software
Q2100-03MSD	PO111286.D	AR-1016-1	yogesh	5/23/2025 7:21:17 AM	mohammad	5/24/2025 4:23:38	Peak Integrated by Software
Q2100-03MSD	PO111286.D	AR-1016-2	yogesh	5/23/2025 7:21:17 AM	mohammad	5/24/2025 4:23:38	Peak Integrated by Software
Q2100-03MSD	PO111286.D	AR-1016-3	yogesh	5/23/2025 7:21:17 AM	mohammad	5/24/2025 4:23:38	Peak Integrated by Software
Q2100-03MSD	PO111286.D	AR-1016-4	yogesh	5/23/2025 7:21:17 AM	mohammad	5/24/2025 4:23:38	Peak Integrated by Software

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Manual Integration Report

Sequence:	PP051925	Instrument	ECD_p

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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Manual Integration Report

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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Manual Integration Report

Sequence:	PP052225	Instrument	ECD_p

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

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Fax : 908 789 8922

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

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Instrument ID: ECD_O

Daily Analysis Runlog For Sequence/QCBatch ID # PO052225

Review By	yogesh	Review On	5/22/2025 12:09:05 PM		
Supervise By	mohammad	Supervise On	5/24/2025 4:23:38 AM		
SubDirectory	PO052225	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	PO111272.D	22 May 2025 09:52	YP/AJ	Ok
2	AR1660CCC500	PO111273.D	22 May 2025 10:10	YP/AJ	Ok
3	AR1242CCC500	PO111274.D	22 May 2025 10:28	YP/AJ	Ok
4	AR1248CCC500	PO111275.D	22 May 2025 10:46	YP/AJ	Ok
5	AR1254CCC500	PO111276.D	22 May 2025 11:04	YP/AJ	Ok
6	I.BLK	PO111277.D	22 May 2025 11:23	YP/AJ	Ok
7	Q2099-02RE	PO111278.D	22 May 2025 11:41	YP/AJ	Confirms
8	Q2099-03RE	PO111279.D	22 May 2025 11:59	YP/AJ	Confirms
9	Q2095-05	PO111280.D	22 May 2025 12:17	YP/AJ	Ok
10	Q2099-01	PO111281.D	22 May 2025 12:35	YP/AJ	Ok
11	Q2100-01	PO111282.D	22 May 2025 12:54	YP/AJ	Ok
12	Q2100-02	PO111283.D	22 May 2025 13:12	YP/AJ	Ok
13	Q2100-03	PO111284.D	22 May 2025 13:29	YP/AJ	Ok
14	Q2100-03MS	PO111285.D	22 May 2025 13:48	YP/AJ	Ok,M
15	Q2100-03MSD	PO111286.D	22 May 2025 14:06	YP/AJ	Ok,M
16	Q2100-04	PO111287.D	22 May 2025 14:25	YP/AJ	Ok
17	AR1660CCC500	PO111288.D	22 May 2025 15:37	YP/AJ	Ok
18	AR1242CCC500	PO111289.D	22 May 2025 16:14	YP/AJ	Ok
19	AR1248CCC500	PO111290.D	22 May 2025 16:33	YP/AJ	Ok
20	AR1254CCC500	PO111291.D	22 May 2025 16:51	YP/AJ	Ok
21	I.BLK	PO111292.D	22 May 2025 17:09	YP/AJ	Ok

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Instrument ID: ECD_O

Daily Analysis Runlog For Sequence/QCBatch ID # PO052225

Review By	yogesh	Review On	5/22/2025 12:09:05 PM		
Supervise By	mohammad	Supervise On	5/24/2025 4:23:38 AM		
SubDirectory	PO052225	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	Q2101-01	PO111293.D	22 May 2025 17:28	YP/AJ	Ok
23	Q2104-01	PO111294.D	22 May 2025 17:45	YP/AJ	Ok
24	Q2102-01	PO111295.D	22 May 2025 18:03	YP/AJ	Ok,M
25	AR1660CCC500	PO111296.D	22 May 2025 19:35	YP/AJ	Ok
26	AR1242CCC500	PO111297.D	22 May 2025 20:29	YP/AJ	Ok
27	AR1248CCC500	PO111298.D	22 May 2025 20:48	YP/AJ	Ok
28	AR1254CCC500	PO111299.D	22 May 2025 21:06	YP/AJ	Ok
29	I.BLK	PO111300.D	22 May 2025 21:25	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,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	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

M : Manual Integration

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Fax : 908 789 8922

Instrument ID: ECD_P

Daily Analysis Runlog For Sequence/QCBatch ID # PP052225

Review By	yogesh	Review On	5/22/2025 12:09:58 PM		
Supervise By	mohammad	Supervise On	5/24/2025 4:23:43 AM		
SubDirectory	PP052225	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	PP072285.D	22 May 2025 09:47	YP\AJ	Ok
2	AR1660CCC500	PP072286.D	22 May 2025 10:03	YP\AJ	Ok
3	AR1242CCC500	PP072287.D	22 May 2025 10:20	YP\AJ	Ok
4	AR1248CCC500	PP072288.D	22 May 2025 10:36	YP\AJ	Ok
5	AR1254CCC500	PP072289.D	22 May 2025 10:53	YP\AJ	Ok
6	I.BLK	PP072290.D	22 May 2025 11:41	YP\AJ	Ok
7	PB168124BL	PP072291.D	22 May 2025 11:58	YP\AJ	Ok
8	PB168124BS	PP072292.D	22 May 2025 12:14	YP\AJ	Ok
9	Q2092-01	PP072293.D	22 May 2025 12:31	YP\AJ	Ok,M
10	Q2093-01	PP072294.D	22 May 2025 12:47	YP\AJ	Ok
11	Q2094-01	PP072295.D	22 May 2025 13:04	YP\AJ	Ok
12	Q2094-02	PP072296.D	22 May 2025 13:21	YP\AJ	Ok
13	Q2094-03	PP072297.D	22 May 2025 13:37	YP\AJ	Ok
14	Q2094-04	PP072298.D	22 May 2025 13:54	YP\AJ	Ok
15	Q2094-05	PP072299.D	22 May 2025 14:10	YP\AJ	Ok
16	Q2095-01	PP072300.D	22 May 2025 14:27	YP\AJ	Ok,M
17	AR1660CCC500	PP072301.D	22 May 2025 15:49	YP\AJ	Ok
18	AR1242CCC500	PP072302.D	22 May 2025 16:23	YP\AJ	Ok
19	AR1248CCC500	PP072303.D	22 May 2025 16:39	YP\AJ	Ok
20	AR1254CCC500	PP072304.D	22 May 2025 16:56	YP\AJ	Ok
21	I.BLK	PP072305.D	22 May 2025 17:12	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	

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

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Instrument ID: ECD_O

Daily Analysis Runlog For Sequence/QCBatch ID # PO052225

Review By	yogesh	Review On	5/22/2025 12:09:05 PM		
Supervise By	mohammad	Supervise On	5/24/2025 4:23:38 AM		
SubDirectory	PO052225	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	PO111272.D	22 May 2025 09:52		YP/AJ	Ok
2	AR1660CCC500	AR1660CCC500	PO111273.D	22 May 2025 10:10		YP/AJ	Ok
3	AR1242CCC500	AR1242CCC500	PO111274.D	22 May 2025 10:28		YP/AJ	Ok
4	AR1248CCC500	AR1248CCC500	PO111275.D	22 May 2025 10:46		YP/AJ	Ok
5	AR1254CCC500	AR1254CCC500	PO111276.D	22 May 2025 11:04		YP/AJ	Ok
6	I.BLK	I.BLK	PO111277.D	22 May 2025 11:23		YP/AJ	Ok
7	Q2099-02RE	OILY-WATER-ARE	PO111278.D	22 May 2025 11:41	All surrogate low	YP/AJ	Confirms
8	Q2099-03RE	OILY-WATER-BRE	PO111279.D	22 May 2025 11:59	All surrogate low	YP/AJ	Confirms
9	Q2095-05	WCS-TP2	PO111280.D	22 May 2025 12:17		YP/AJ	Ok
10	Q2099-01	OILY-DEBRIS	PO111281.D	22 May 2025 12:35		YP/AJ	Ok
11	Q2100-01	TP-16	PO111282.D	22 May 2025 12:54		YP/AJ	Ok
12	Q2100-02	TP-22	PO111283.D	22 May 2025 13:12		YP/AJ	Ok
13	Q2100-03	TP-21	PO111284.D	22 May 2025 13:29		YP/AJ	Ok
14	Q2100-03MS	TP-21MS	PO111285.D	22 May 2025 13:48		YP/AJ	Ok,M
15	Q2100-03MSD	TP-21MSD	PO111286.D	22 May 2025 14:06		YP/AJ	Ok,M
16	Q2100-04	TP-45	PO111287.D	22 May 2025 14:25		YP/AJ	Ok
17	AR1660CCC500	AR1660CCC500	PO111288.D	22 May 2025 15:37		YP/AJ	Ok
18	AR1242CCC500	AR1242CCC500	PO111289.D	22 May 2025 16:14		YP/AJ	Ok

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Instrument ID: ECD_O

Daily Analysis Runlog For Sequence/QCBatch ID # PO052225

Review By	yogesh	Review On	5/22/2025 12:09:05 PM		
Supervise By	mohammad	Supervise On	5/24/2025 4:23:38 AM		
SubDirectory	PO052225	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	PO111290.D	22 May 2025 16:33		YP/AJ	Ok
20	AR1254CCC500	AR1254CCC500	PO111291.D	22 May 2025 16:51		YP/AJ	Ok
21	I.BLK	I.BLK	PO111292.D	22 May 2025 17:09		YP/AJ	Ok
22	Q2101-01	TP-1-MHE	PO111293.D	22 May 2025 17:28		YP/AJ	Ok
23	Q2104-01	TR-06-052125	PO111294.D	22 May 2025 17:45		YP/AJ	Ok
24	Q2102-01	LAW-25-0077	PO111295.D	22 May 2025 18:03	AR1260 + 1254 Hit	YP/AJ	Ok,M
25	AR1660CCC500	AR1660CCC500	PO111296.D	22 May 2025 19:35		YP/AJ	Ok
26	AR1242CCC500	AR1242CCC500	PO111297.D	22 May 2025 20:29		YP/AJ	Ok
27	AR1248CCC500	AR1248CCC500	PO111298.D	22 May 2025 20:48		YP/AJ	Ok
28	AR1254CCC500	AR1254CCC500	PO111299.D	22 May 2025 21:06		YP/AJ	Ok
29	I.BLK	I.BLK	PO111300.D	22 May 2025 21:25		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,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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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	

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

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Instrument ID: ECD_P

Daily Analysis Runlog For Sequence/QCBatch ID # PP052225

Review By	yogesh	Review On	5/22/2025 12:09:58 PM		
Supervise By	mohammad	Supervise On	5/24/2025 4:23:43 AM		
SubDirectory	PP052225	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	PP072285.D	22 May 2025 09:47		YP\AJ	Ok
2	AR1660CCC500	AR1660CCC500	PP072286.D	22 May 2025 10:03		YP\AJ	Ok
3	AR1242CCC500	AR1242CCC500	PP072287.D	22 May 2025 10:20		YP\AJ	Ok
4	AR1248CCC500	AR1248CCC500	PP072288.D	22 May 2025 10:36		YP\AJ	Ok
5	AR1254CCC500	AR1254CCC500	PP072289.D	22 May 2025 10:53		YP\AJ	Ok
6	I.BLK	I.BLK	PP072290.D	22 May 2025 11:41		YP\AJ	Ok
7	PB168124BL	PB168124BL	PP072291.D	22 May 2025 11:58		YP\AJ	Ok
8	PB168124BS	PB168124BS	PP072292.D	22 May 2025 12:14		YP\AJ	Ok
9	Q2092-01	VNJ-202	PP072293.D	22 May 2025 12:31		YP\AJ	Ok,M
10	Q2093-01	SOIL-DRUM	PP072294.D	22 May 2025 12:47		YP\AJ	Ok
11	Q2094-01	COMP-1	PP072295.D	22 May 2025 13:04		YP\AJ	Ok
12	Q2094-02	COMP-2	PP072296.D	22 May 2025 13:21		YP\AJ	Ok
13	Q2094-03	COMP-3	PP072297.D	22 May 2025 13:37		YP\AJ	Ok
14	Q2094-04	COMP-4	PP072298.D	22 May 2025 13:54		YP\AJ	Ok
15	Q2094-05	COMP-5	PP072299.D	22 May 2025 14:10		YP\AJ	Ok
16	Q2095-01	WCS-TP1	PP072300.D	22 May 2025 14:27		YP\AJ	Ok,M
17	AR1660CCC500	AR1660CCC500	PP072301.D	22 May 2025 15:49		YP\AJ	Ok
18	AR1242CCC500	AR1242CCC500	PP072302.D	22 May 2025 16:23		YP\AJ	Ok

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Fax : 908 789 8922

Instrument ID: ECD_P

Daily Analysis Runlog For Sequence/QCBatch ID # PP052225

Review By	yogesh	Review On	5/22/2025 12:09:58 PM		
Supervise By	mohammad	Supervise On	5/24/2025 4:23:43 AM		
SubDirectory	PP052225	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	PP072303.D	22 May 2025 16:39		YP\AJ	Ok
20	AR1254CCC500	AR1254CCC500	PP072304.D	22 May 2025 16:56		YP\AJ	Ok
21	I.BLK	I.BLK	PP072305.D	22 May 2025 17:12		YP\AJ	Ok

M : Manual Integration

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PB168124

SOP ID:	M3541-ASE Extraction-14				
Clean Up SOP #:	Acid Cleanup			**Extraction Start Date :**	05/22/2025
Matrix :	Solid			**Extraction Start Time :**	08:30
Weigh By:	EH	**Extraction By:**	RJ	**Extraction End Date :**	05/22/2025
Balance check:	RJ	**Filter By:**	RJ	**Extraction End Time :**	11:30
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	EP2614
Sand	N/A	E2865
Hexane	N/A	E3934
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:

40 ML Vial lot# 03-40 BTS723.

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
5/22/25	RS (BU-lab)	Y. P. pest HPCD.
11:35	**Preparation Group**	**Analysis Group**

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PrepBatch ID : PB168124

Analytical Method: M3541-ASE Extraction-14

Concentration Date: 05/22/2025

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB168124BL	ABLK124	PCB	30.01	N/A	ritesh	Evelyn	10			U1-1
PB168124BS	ALCS124	PCB	30.02	N/A	ritesh	Evelyn	10			2
Q2092-01	VNJ-202	PCB	30.02	N/A	ritesh	Evelyn	10	E		3
Q2093-01	SOIL-DRUMS	PCB	30.06	N/A	ritesh	Evelyn	10	E		4
Q2094-01	COMP-1	PCB	30.05	N/A	ritesh	Evelyn	10	B	Concrete	5
Q2094-02	COMP-2	PCB	30.10	N/A	ritesh	Evelyn	10	B	Concrete	6
Q2094-03	COMP-3	PCB	30.03	N/A	ritesh	Evelyn	10	B	Concrete	U2-1
Q2094-04	COMP-4	PCB	30.06	N/A	ritesh	Evelyn	10	B	Concrete	2
Q2094-05	COMP-5	PCB	30.04	N/A	ritesh	Evelyn	10	B	Concrete	3
Q2095-01	WCS-TP1	PCB	30.05	N/A	ritesh	Evelyn	10	E		4
Q2095-05	WCS-TP2	PCB	30.03	N/A	ritesh	Evelyn	10	E		5
Q2099-01	OILY-DEBRIS	PCB	30.03	N/A	ritesh	Evelyn	10	D	Small Particle	6
Q2100-01	TP-16	PCB	30.02	N/A	ritesh	Evelyn	10	E		U3-1
Q2100-02	TP-22	PCB	30.07	N/A	ritesh	Evelyn	10	E		2
Q2100-03	TP-21	PCB	30.02	N/A	ritesh	Evelyn	10	E		3
Q2100-03MS	TP-21MS	PCB	30.06	N/A	ritesh	Evelyn	10	E		4
Q2100-03MSD	TP-21MSD	PCB	30.04	N/A	ritesh	Evelyn	10	E		5
Q2100-04	TP-45	PCB	30.05	N/A	ritesh	Evelyn	10	E		6
Q2101-01	TP-1-MHE	PCB	30.08	N/A	ritesh	Evelyn	10	C		U7-1
Q2102-01	LAW-25-0077	PCB	30.01	N/A	ritesh	Evelyn	10	E	Small Particle	2
Q2104-01	TR-06-052125	PCB	30.06	N/A	ritesh	Evelyn	10	E		3

RS
5/22

* **Extracts relinquished on the same date as received.**

Q2099 8:30

WORKLIST(Hardcopy Internal Chain)

WorkList Name : Q2099 **WorkList ID :** 189695 **Department :** Extraction **Date :** 05-22-2025 08:25:08

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2092-01	VNJ-202	Solid	PCB	Cool 4 deg C	PSEG03	L41	05/20/2025	8082A
Q2093-01	SOIL-DRUMS	Solid	PCB	Cool 4 deg C	PSEG03	L41	05/20/2025	8082A
Q2094-01	COMP-1	Solid	PCB	Cool 4 deg C	PSEG03	L41	05/20/2025	8082A
Q2094-02	COMP-2	Solid	PCB	Cool 4 deg C	PSEG03	L41	05/20/2025	8082A
Q2094-03	COMP-3	Solid	PCB	Cool 4 deg C	PSEG03	L41	05/20/2025	8082A
Q2094-04	COMP-4	Solid	PCB	Cool 4 deg C	PSEG03	L41	05/20/2025	8082A
Q2094-05	COMP-5	Solid	PCB	Cool 4 deg C	PSEG03	L41	05/20/2025	8082A
Q2095-01	WCS-TP1	Solid	PCB	Cool 4 deg C	PSEG03	L41	05/20/2025	8082A
Q2095-05	WCS-TP2	Solid	PCB	Cool 4 deg C	PSEG03	L41	05/20/2025	8082A
Q2099-01	OILY-DEBRIS	Solid	PCB	Cool 4 deg C	PSEG03	L41	05/20/2025	8082A
Q2100-01	TP-16	Solid	PCB	Cool 4 deg C	CAMP02	L41	05/20/2025	8082A
Q2100-02	TP-22	Solid	PCB	Cool 4 deg C	CAMP02	L41	05/20/2025	8082A
Q2100-03	TP-21	Solid	PCB	Cool 4 deg C	CAMP02	L41	05/20/2025	8082A
Q2100-04	TP-45	Solid	PCB	Cool 4 deg C	CAMP02	L41	05/20/2025	8082A
Q2101-01	TP-1-MHE	Solid	PCB	Cool 4 deg C	PSEG03	L41	05/19/2025	8082A
Q2102-01	LAW-25-0077	Solid	PCB	Cool 4 deg C	PSEG03	L21	05/21/2025	8082A
Q2104-01	TR-06-052125	Solid	PCB	Cool 4 deg C	PSEG05	L31	05/21/2025	8082A

608 of 879

Date/Time 05/22/25 8:25
Raw Sample Received by: RJ (EXT-LAB)
Raw Sample Relinquished by: CP

Date/Time 05/22/25 8:55
Raw Sample Received by: CP
Raw Sample Relinquished by: RJ (EXT-LAB)

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LAB CHRONICLE

OrderID:	Q2100	**OrderDate:**	5/20/2025 3:22:00 PM
Client:	CDM Smith	**Project:**	South River WM Replacement
Contact:	Marcie Ann Encinas	**Location:**	L41,VOA Ref. #2 Soil

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2100-01	**TP-16**	**SOIL**			**05/19/25**			**05/20/25**
			Diesel Range Organics	8015D		05/23/25	05/23/25	
			Gasoline Range Organics	8015D			05/21/25	
			PCB	8082A		05/22/25	05/22/25	
			Pesticide-TCL	8081B		05/22/25	05/22/25	
Q2100-02	**TP-22**	**SOIL**			**05/19/25**			**05/20/25**
			Diesel Range Organics	8015D		05/23/25	05/23/25	
			Gasoline Range Organics	8015D			05/21/25	
			PCB	8082A		05/22/25	05/22/25	
			Pesticide-TCL	8081B		05/22/25	05/22/25	
Q2100-03	**TP-21**	**SOIL**			**05/20/25**			**05/20/25**
			Diesel Range Organics	8015D		05/23/25	05/23/25	
			Gasoline Range Organics	8015D			05/21/25	
			PCB	8082A		05/22/25	05/22/25	
			Pesticide-TCL	8081B		05/22/25	05/22/25	
Q2100-04	**TP-45**	**SOIL**			**05/20/25**			**05/20/25**
			Diesel Range Organics	8015D		05/23/25	05/23/25	
			Gasoline Range Organics	8015D			05/21/25	
			PCB	8082A		05/22/25	05/22/25	
			Pesticide-TCL	8081B		05/22/25	05/22/25	

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Hit Summary Sheet
SW-846

SDG No.: Q2100 **Order ID:** Q2100

Client: CDM Smith **Project ID:** South River WM Replacement

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:	CDM Smith	Date Collected:	05/19/25
Project:	South River WM Replacement	Date Received:	05/20/25
Client Sample ID:	TP-16	SDG No.:	Q2100
Lab Sample ID:	Q2100-01	Matrix:	SOIL
Analytical Method:	8151A	% Solid:	88.4 Decanted:
Sample Wt/Vol:	30.07 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	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
PS030398.D	1	05/23/25 08:25	05/23/25 23:41	PB168137

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
1918-00-9	DICAMBA	8.70	U	8.70	75.6	ug/Kg
120-36-5	DICHLORPROP	14.4	U	14.4	75.6	ug/Kg
94-75-7	2,4-D	10.2	U	10.2	75.6	ug/Kg
93-72-1	2,4,5-TP (Silvex)	10.2	U	10.2	75.6	ug/Kg
93-76-5	2,4,5-T	9.80	U	9.80	75.6	ug/Kg
94-82-6	2,4-DB	27.3	U	27.3	75.6	ug/Kg
88-85-7	DINOSEB	12.2	U	12.2	75.6	ug/Kg
SURROGATES						
19719-28-9	2,4-DCAA	359		10 - 141	72%	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

Alliance TECHNICAL GROUP
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Fax : 908 789 8922

Report of Analysis

Client:	CDM Smith	Date Collected:	05/19/25
Project:	South River WM Replacement	Date Received:	05/20/25
Client Sample ID:	TP-22	SDG No.:	Q2100
Lab Sample ID:	Q2100-02	Matrix:	SOIL
Analytical Method:	8151A	% Solid:	84 Decanted:
Sample Wt/Vol:	30.02 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	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
PS030399.D	1	05/23/25 08:25	05/24/25 00:05	PB168137

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
1918-00-9	DICAMBA	9.20	U	9.20	79.7	ug/Kg
120-36-5	DICHLORPROP	15.2	U	15.2	79.7	ug/Kg
94-75-7	2,4-D	10.8	U	10.8	79.7	ug/Kg
93-72-1	2,4,5-TP (Silvex)	10.8	U	10.8	79.7	ug/Kg
93-76-5	2,4,5-T	10.4	U	10.4	79.7	ug/Kg
94-82-6	2,4-DB	28.8	U	28.8	79.7	ug/Kg
88-85-7	DINOSEB	12.8	U	12.8	79.7	ug/Kg
SURROGATES						
19719-28-9	2,4-DCAA	299		10 - 141	60%	SPK: 500

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
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M = MS/MSD acceptance criteria did not meet requirements

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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:	CDM Smith	Date Collected:	05/20/25
Project:	South River WM Replacement	Date Received:	05/20/25
Client Sample ID:	TP-21	SDG No.:	Q2100
Lab Sample ID:	Q2100-03	Matrix:	SOIL
Analytical Method:	8151A	% Solid:	78.2 Decanted:
Sample Wt/Vol:	30.06 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	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
PS030400.D	1	05/23/25 08:25	05/24/25 00:29	PB168137

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
1918-00-9	DICAMBA	9.90	U	9.90	85.5	ug/Kg
120-36-5	DICHLORPROP	16.3	U	16.3	85.5	ug/Kg
94-75-7	2,4-D	11.5	U	11.5	85.5	ug/Kg
93-72-1	2,4,5-TP (Silvex)	11.6	U	11.6	85.5	ug/Kg
93-76-5	2,4,5-T	11.1	U	11.1	85.5	ug/Kg
94-82-6	2,4-DB	30.9	U	30.9	85.5	ug/Kg
88-85-7	DINOSEB	13.8	U	13.8	85.5	ug/Kg
SURROGATES						
19719-28-9	2,4-DCAA	252		10 - 141	50%	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

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

Report of Analysis

Client:	CDM Smith	Date Collected:	05/20/25
Project:	South River WM Replacement	Date Received:	05/20/25
Client Sample ID:	TP-45	SDG No.:	Q2100
Lab Sample ID:	Q2100-04	Matrix:	SOIL
Analytical Method:	8151A	% Solid:	76.2 Decanted:
Sample Wt/Vol:	30.03 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	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
PS030405.D	1	05/23/25 08:25	05/24/25 02:53	PB168137

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
1918-00-9	DICAMBA	10.2	U	10.2	87.8	ug/Kg
120-36-5	DICHLORPROP	16.8	U	16.8	87.8	ug/Kg
94-75-7	2,4-D	11.9	U	11.9	87.8	ug/Kg
93-72-1	2,4,5-TP (Silvex)	11.9	U	11.9	87.8	ug/Kg
93-76-5	2,4,5-T	11.4	U	11.4	87.8	ug/Kg
94-82-6	2,4-DB	31.7	U	31.7	87.8	ug/Kg
88-85-7	DINOSEB	14.2	U	14.2	87.8	ug/Kg
SURROGATES						
19719-28-9	2,4-DCAA	280		10 - 141	56%	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

QC SUMMARY

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

Surrogate Summary

SDG No.: Q2100

Client: CDM Smith

Analytical Method: 8151A

Lab Sample ID	Client ID	Parameter	Column	Spike	Result	Rec	Qual	Limits Low	Limits High
I.BLK-PS030124.D	PIBLK-PS030124.D	2,4-DCAA	1	500	419	84		39	175
		2,4-DCAA	2	500	418	84		39	175
I.BLK-PS030379.D	PIBLK-PS030379.D	2,4-DCAA	1	500	507	101		39	175
		2,4-DCAA	2	500	493	99		39	175
PB168137BL	PB168137BL	2,4-DCAA	1	500	449	90		10	141
		2,4-DCAA	2	500	406	81		10	141
PB168137BS	PB168137BS	2,4-DCAA	1	500	510	102		10	141
		2,4-DCAA	2	500	435	87		10	141
I.BLK-PS030391.D	PIBLK-PS030391.D	2,4-DCAA	1	500	531	106		39	175
		2,4-DCAA	2	500	526	105		39	175
Q2100-01	TP-16	2,4-DCAA	1	500	359	72		10	141
		2,4-DCAA	2	500	322	64		10	141
Q2100-02	TP-22	2,4-DCAA	1	500	299	60		10	141
		2,4-DCAA	2	500	279	56		10	141
Q2100-03	TP-21	2,4-DCAA	1	500	252	50		10	141
		2,4-DCAA	2	500	234	47		10	141
I.BLK-PS030403.D	PIBLK-PS030403.D	2,4-DCAA	1	500	522	104		39	175
		2,4-DCAA	2	500	531	106		39	175
Q2100-04	TP-45	2,4-DCAA	1	500	280	56		10	141
		2,4-DCAA	2	500	254	51		10	141
I.BLK-PS030408.D	PIBLK-PS030408.D	2,4-DCAA	1	500	531	106		39	175
		2,4-DCAA	2	500	535	107		39	175
I.BLK-PS030426.D	PIBLK-PS030426.D	2,4-DCAA	1	500	488	98		39	175
		2,4-DCAA	2	500	482	96		39	175
Q2100-03MS	TP-21MS	2,4-DCAA	1	500	282	56		10	141
		2,4-DCAA	2	500	249	50		10	141
Q2100-03MSD	TP-21MSD	2,4-DCAA	1	500	293	59		10	141
		2,4-DCAA	2	500	262	52		10	141
I.BLK-PS030433.D	PIBLK-PS030433.D	2,4-DCAA	1	500	499	100		39	175
		2,4-DCAA	2	500	483	97		39	175

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q2100 **Analytical Method:** 8151A

Client: CDM Smith **DataFile :** PS030429.D

Lab Sample ID:	Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Client Sample ID:	**TP-21MS**											
Q2100-03MS (Column 1)	DICAMBA	213.1	0	117	ug/Kg	55				10	112	
	DICHLORPROP	213.1	0	123	ug/Kg	58				10	113	
	2,4-D	213.1	0	154	ug/Kg	72				10	144	
	2,4,5-TP(Silvex)	213.1	0	120	ug/Kg	56				10	114	
	2,4,5-T	213.1	0	122	ug/Kg	57				10	115	
	2,4-DB	213.1	0	156	ug/Kg	73				10	140	
	Dinoseb	213.1	0	20.4	ug/Kg	10				10	118	
Client Sample ID:	**TP-21MS**											
Q2100-03MS (Column 2)	DICAMBA	213.1	0	109	ug/Kg	51				10	112	
	DICHLORPROP	213.1	0	119	ug/Kg	56				10	113	
	2,4-D	213.1	0	134	ug/Kg	63				10	144	
	2,4,5-TP(Silvex)	213.1	0	123	ug/Kg	58				10	114	
	2,4,5-T	213.1	0	118	ug/Kg	55				10	115	
	2,4-DB	213.1	0	110	ug/Kg	52				10	140	
	Dinoseb	213.1	0	20.6	ug/Kg	10				10	118	

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q2100 **Analytical Method:** 8151A

Client: CDM Smith **DataFile :** PS030430.D

Lab Sample ID:	Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Client Sample ID:	**TP-21MSD**											
Q2100-03MSD (Column 1)	DICAMBA	212.6	0	121	ug/Kg	57		4		10	112	20
	DICHLORPROP	212.6	0	128	ug/Kg	60		3		10	113	20
	2,4-D	212.6	0	146	ug/Kg	69		4		10	144	20
	2,4,5-TP(Silvex)	212.6	0	128	ug/Kg	60		7		10	114	20
	2,4,5-T	212.6	0	127	ug/Kg	60		5		10	115	20
	2,4-DB	212.6	0	158	ug/Kg	74		1		10	140	20
	Dinoseb	212.6	0	20.5	ug/Kg	10		0		10	118	20
Client Sample ID:	**TP-21MSD**											
Q2100-03MSD (Column 2)	DICAMBA	212.6	0	115	ug/Kg	54		6		10	112	20
	DICHLORPROP	212.6	0	113	ug/Kg	53		6		10	113	20
	2,4-D	212.6	0	138	ug/Kg	65		3		10	144	20
	2,4,5-TP(Silvex)	212.6	0	129	ug/Kg	61		5		10	114	20
	2,4,5-T	212.6	0	123	ug/Kg	58		5		10	115	20
	2,4-DB	212.6	0	115	ug/Kg	54		4		10	140	20
	Dinoseb	212.6	0	20.6	ug/Kg	10		0		10	118	20

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2100 **Analytical Method:** 8151A

Client: CDM Smith **Datafile :** PS030382.D

Lab Sample ID	Parameter	Spike	Result	Units	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB168137BS (Column 1)	DICAMBA	166.6	148	ug/Kg	89				72	129	
	DICHLORPROP	166.6	164	ug/Kg	98				77	135	
	2,4-D	166.6	183	ug/Kg	110				65	144	
	2,4,5-TP(Silvex)	166.6	167	ug/Kg	100				74	146	
	2,4,5-T	166.6	165	ug/Kg	99				77	134	
	2,4-DB	166.6	177	ug/Kg	106				72	122	
	Dinoseb	166.6	148	ug/Kg	89				74	132	
PB168137BS (Column 2)	DICAMBA	166.6	150	ug/Kg	90				72	129	
	DICHLORPROP	166.6	175	ug/Kg	105				77	135	
	2,4-D	166.6	171	ug/Kg	103				65	144	
	2,4,5-TP(Silvex)	166.6	168	ug/Kg	101				74	146	
	2,4,5-T	166.6	156	ug/Kg	94				77	134	
	2,4-DB	166.6	134	ug/Kg	80				72	122	
	Dinoseb	166.6	136	ug/Kg	82				74	132	

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4C

PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB168137BL

Lab Name: CHEMTECH Contract: CAMP02

Lab Code: CHEM Case No.: Q2100 SAS No.: Q2100 SDG NO.: Q2100

Lab Sample ID: PB168137BL Lab File ID: PS030381.D

Matrix: (soil/water) Solid Extraction: (Type) SOXH

Sulfur Cleanup: (Y/N) N Date Extracted: 05/23/2025

Date Analyzed (1): 05/23/2025 Date Analyzed (2): 05/23/2025

Time Analyzed (1): 16:28 Time Analyzed (2): 16:28

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
PB168137BS	PB168137BS	PS030382.D	05/23/2025	05/23/2025
TP-16	Q2100-01	PS030398.D	05/23/2025	05/23/2025
TP-22	Q2100-02	PS030399.D	05/24/2025	05/24/2025
TP-21	Q2100-03	PS030400.D	05/24/2025	05/24/2025
TP-45	Q2100-04	PS030405.D	05/24/2025	05/24/2025
TP-21MS	Q2100-03MS	PS030429.D	05/29/2025	05/29/2025
TP-21MSD	Q2100-03MSD	PS030430.D	05/29/2025	05/29/2025

COMMENTS:

QC SAMPLE DATA

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Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	PB168137BL	SDG No.:	Q2100
Lab Sample ID:	PB168137BL	Matrix:	SOIL
Analytical Method:	8151A	% Solid:	100 Decanted:
Sample Wt/Vol:	30.01 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	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
PS030381.D	1	05/23/25 08:25	05/23/25 16:28	PB168137

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
1918-00-9	DICAMBA	7.70	U	7.70	67.0	ug/Kg
120-36-5	DICHLORPROP	12.8	U	12.8	67.0	ug/Kg
94-75-7	2,4-D	9.00	U	9.00	67.0	ug/Kg
93-72-1	2,4,5-TP (Silvex)	9.10	U	9.10	67.0	ug/Kg
93-76-5	2,4,5-T	8.70	U	8.70	67.0	ug/Kg
94-82-6	2,4-DB	24.2	U	24.2	67.0	ug/Kg
88-85-7	DINOSEB	10.8	U	10.8	67.0	ug/Kg
SURROGATES						
19719-28-9	2,4-DCAA	449		10 - 141	90%	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:	CDM Smith	Date Collected:	05/12/25
Project:	South River WM Replacement	Date Received:	05/12/25
Client Sample ID:	PIBLK-PS030124.D	SDG No.:	Q2100
Lab Sample ID:	I.BLK-PS030124.D	Matrix:	WATER
Analytical Method:	8151A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	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
PS030124.D	1		05/12/25	PS051225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
1918-00-9	DICAMBA	0.65	U	0.65	2.00	ug/L
120-36-5	DICHLORPROP	0.76	U	0.76	2.00	ug/L
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
93-76-5	2,4,5-T	0.71	U	0.71	2.00	ug/L
94-82-6	2,4-DB	0.65	U	0.65	2.00	ug/L
88-85-7	DINOSEB	0.89	U	0.89	2.00	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	419		39 - 175	84%	SPK: 500

Comments:

U = Not Detected
LOQ = Limit of Quantitation
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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:	CDM Smith	Date Collected:	05/23/25
Project:	South River WM Replacement	Date Received:	05/23/25
Client Sample ID:	PIBLK-PS030379.D	SDG No.:	Q2100
Lab Sample ID:	I.BLK-PS030379.D	Matrix:	WATER
Analytical Method:	8151A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	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
PS030379.D	1		05/23/25	ps052325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
1918-00-9	DICAMBA	0.65	U	0.65	2.00	ug/L
120-36-5	DICHLORPROP	0.76	U	0.76	2.00	ug/L
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
93-76-5	2,4,5-T	0.71	U	0.71	2.00	ug/L
94-82-6	2,4-DB	0.65	U	0.65	2.00	ug/L
88-85-7	DINOSEB	0.89	U	0.89	2.00	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	507		39 - 175	101%	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:	CDM Smith	Date Collected:	05/23/25
Project:	South River WM Replacement	Date Received:	05/23/25
Client Sample ID:	PIBLK-PS030391.D	SDG No.:	Q2100
Lab Sample ID:	I.BLK-PS030391.D	Matrix:	WATER
Analytical Method:	8151A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	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
PS030391.D	1		05/23/25	ps052325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
1918-00-9	DICAMBA	0.65	U	0.65	2.00	ug/L
120-36-5	DICHLORPROP	0.76	U	0.76	2.00	ug/L
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
93-76-5	2,4,5-T	0.71	U	0.71	2.00	ug/L
94-82-6	2,4-DB	0.65	U	0.65	2.00	ug/L
88-85-7	DINOSEB	0.89	U	0.89	2.00	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	531		39 - 175	106%	SPK: 500

Comments:

U = Not Detected
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:	CDM Smith	Date Collected:	05/24/25
Project:	South River WM Replacement	Date Received:	05/24/25
Client Sample ID:	PIBLK-PS030403.D	SDG No.:	Q2100
Lab Sample ID:	I.BLK-PS030403.D	Matrix:	WATER
Analytical Method:	8151A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	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
PS030403.D	1		05/24/25	ps052325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
1918-00-9	DICAMBA	0.65	U	0.65	2.00	ug/L
120-36-5	DICHLORPROP	0.76	U	0.76	2.00	ug/L
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
93-76-5	2,4,5-T	0.71	U	0.71	2.00	ug/L
94-82-6	2,4-DB	0.65	U	0.65	2.00	ug/L
88-85-7	DINOSEB	0.89	U	0.89	2.00	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	531		39 - 175	106%	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:	CDM Smith	Date Collected:	05/24/25
Project:	South River WM Replacement	Date Received:	05/24/25
Client Sample ID:	PIBLK-PS030408.D	SDG No.:	Q2100
Lab Sample ID:	I.BLK-PS030408.D	Matrix:	WATER
Analytical Method:	8151A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	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
PS030408.D	1		05/24/25	ps052325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
1918-00-9	DICAMBA	0.65	U	0.65	2.00	ug/L
120-36-5	DICHLORPROP	0.76	U	0.76	2.00	ug/L
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
93-76-5	2,4,5-T	0.71	U	0.71	2.00	ug/L
94-82-6	2,4-DB	0.65	U	0.65	2.00	ug/L
88-85-7	DINOSEB	0.89	U	0.89	2.00	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	535		39 - 175	107%	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:	CDM Smith	Date Collected:	05/29/25
Project:	South River WM Replacement	Date Received:	05/29/25
Client Sample ID:	PIBLK-PS030426.D	SDG No.:	Q2100
Lab Sample ID:	I.BLK-PS030426.D	Matrix:	WATER
Analytical Method:	8151A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	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
PS030426.D	1		05/29/25	ps052925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
1918-00-9	DICAMBA	0.65	U	0.65	2.00	ug/L
120-36-5	DICHLORPROP	0.76	U	0.76	2.00	ug/L
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
93-76-5	2,4,5-T	0.71	U	0.71	2.00	ug/L
94-82-6	2,4-DB	0.65	U	0.65	2.00	ug/L
88-85-7	DINOSEB	0.89	U	0.89	2.00	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	488		39 - 175	98%	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:	CDM Smith	Date Collected:	05/29/25
Project:	South River WM Replacement	Date Received:	05/29/25
Client Sample ID:	PIBLK-PS030433.D	SDG No.:	Q2100
Lab Sample ID:	I.BLK-PS030433.D	Matrix:	WATER
Analytical Method:	8151A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	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
PS030433.D	1		05/29/25	ps052925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
1918-00-9	DICAMBA	0.65	U	0.65	2.00	ug/L
120-36-5	DICHLORPROP	0.76	U	0.76	2.00	ug/L
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
93-76-5	2,4,5-T	0.71	U	0.71	2.00	ug/L
94-82-6	2,4-DB	0.65	U	0.65	2.00	ug/L
88-85-7	DINOSEB	0.89	U	0.89	2.00	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	499		39 - 175	100%	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:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	PB168137BS	SDG No.:	Q2100
Lab Sample ID:	PB168137BS	Matrix:	SOIL
Analytical Method:	8151A	% Solid:	100 Decanted:
Sample Wt/Vol:	30.02 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	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
PS030382.D	1	05/23/25 08:25	05/23/25 16:52	PB168137

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
1918-00-9	DICAMBA	150		7.70	67.0	ug/Kg
120-36-5	DICHLORPROP	175		12.8	67.0	ug/Kg
94-75-7	2,4-D	183		9.00	67.0	ug/Kg
93-72-1	2,4,5-TP (Silvex)	168		9.10	67.0	ug/Kg
93-76-5	2,4,5-T	165		8.70	67.0	ug/Kg
94-82-6	2,4-DB	177		24.2	67.0	ug/Kg
88-85-7	DINOSEB	148		10.8	67.0	ug/Kg
SURROGATES						
19719-28-9	2,4-DCAA	510		10 - 141	102%	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:	CDM Smith	Date Collected:	05/20/25
Project:	South River WM Replacement	Date Received:	05/20/25
Client Sample ID:	TP-21MS	SDG No.:	Q2100
Lab Sample ID:	Q2100-03MS	Matrix:	SOIL
Analytical Method:	8151A	% Solid:	78.2 Decanted:
Sample Wt/Vol:	30.01 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	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
PS030429.D	1	05/23/25 08:25	05/29/25 14:19	PB168137

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
1918-00-9	DICAMBA	117		9.90	85.6	ug/Kg
120-36-5	DICHLORPROP	123		16.4	85.6	ug/Kg
94-75-7	2,4-D	154		11.6	85.6	ug/Kg
93-72-1	2,4,5-TP (Silvex)	123		11.6	85.6	ug/Kg
93-76-5	2,4,5-T	122		11.1	85.6	ug/Kg
94-82-6	2,4-DB	156		30.9	85.6	ug/Kg
88-85-7	DINOSEB	20.6	J	13.8	85.6	ug/Kg
SURROGATES						
19719-28-9	2,4-DCAA	282		10 - 141	56%	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:	CDM Smith	Date Collected:	05/20/25
Project:	South River WM Replacement	Date Received:	05/20/25
Client Sample ID:	TP-21MSD	SDG No.:	Q2100
Lab Sample ID:	Q2100-03MSD	Matrix:	SOIL
Analytical Method:	8151A	% Solid:	78.2 Decanted:
Sample Wt/Vol:	30.08 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	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
PS030430.D	1	05/23/25 08:25	05/29/25 14:44	PB168137

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
1918-00-9	DICAMBA	121		9.90	85.4	ug/Kg
120-36-5	DICHLORPROP	128		16.3	85.4	ug/Kg
94-75-7	2,4-D	146		11.5	85.4	ug/Kg
93-72-1	2,4,5-TP (Silvex)	129		11.6	85.4	ug/Kg
93-76-5	2,4,5-T	127		11.1	85.4	ug/Kg
94-82-6	2,4-DB	158		30.9	85.4	ug/Kg
88-85-7	DINOSEB	20.6	J	13.8	85.4	ug/Kg
SURROGATES						
19719-28-9	2,4-DCAA	293		10 - 141	59%	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: CAMP02

Lab Code: CHEM **Case No.:** Q2100 **SAS No.:** Q2100 **SDG NO.:** Q2100

Instrument ID: ECD_S **Calibration Date(s):** 05/12/2025 05/12/2025

Calibration Times: 12:30 14:06

GC Column: RTX-CLP ID: 0.32 (mm)

LAB FILE ID: RT 200 = PS030125.D RT 500 = PS030126.D

RT 750 = PS030127.D RT 1000 = PS030128.D RT 1500 = PS030129.D

COMPOUND	RT 200	RT 500	RT 750	RT 1000	RT 1500	MEAN RT	RT WINDOW FROM	RT WINDOW TO
2,4,5-T	9.13	9.13	9.13	9.13	9.13	9.13	9.03	9.23
2,4,5-TP(Silvex)	8.85	8.85	8.85	8.85	8.85	8.85	8.75	8.95
2,4-D	8.01	8.01	8.01	8.01	8.01	8.01	7.91	8.11
2,4-DB	9.69	9.69	9.69	9.69	9.69	9.69	9.59	9.79
2,4-DCAA	6.93	6.93	6.93	6.93	6.93	6.93	6.83	7.03
DICAMBA	7.11	7.11	7.11	7.11	7.11	7.11	7.01	7.21
DICHLORPROP	7.79	7.79	7.79	7.79	7.79	7.79	7.69	7.89
Dinoseb	10.85	10.85	10.85	10.85	10.85	10.85	10.75	10.95

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RETENTION TIMES OF INITIAL CALIBRATION

Contract: CAMP02

Lab Code: CHEM **Case No.:** Q2100 **SAS No.:** Q2100 **SDG NO.:** Q2100

Instrument ID: ECD_S **Calibration Date(s):** 05/12/2025 05/12/2025

Calibration Times: 12:30 14:06

GC Column: RTX-CLP2 ID: 0.32 (mm)

LAB FILE ID: RT 200 = PS030125.D RT 500 = PS030126.D

RT 750 = PS030127.D RT 1000 = PS030128.D RT 1500 = PS030129.D

COMPOUND	RT 200	RT 500	RT 750	RT 1000	RT 1500	MEAN RT	RT WINDOW FROM	RT WINDOW TO
2,4,5-T	9.93	9.93	9.93	9.93	9.93	9.93	9.83	10.03
2,4,5-TP(Silvex)	9.52	9.52	9.52	9.52	9.52	9.52	9.42	9.62
2,4-D	8.64	8.65	8.64	8.65	8.65	8.64	8.54	8.74
2,4-DB	10.49	10.49	10.49	10.49	10.49	10.48	10.38	10.58
2,4-DCAA	7.45	7.45	7.45	7.45	7.45	7.45	7.35	7.55
DICAMBA	7.64	7.64	7.64	7.64	7.64	7.64	7.54	7.74
DICHLORPROP	8.33	8.33	8.33	8.33	8.33	8.33	8.23	8.43
Dinoseb	10.86	10.86	10.86	10.86	10.86	10.86	10.76	10.96

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CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: CAMP02

Lab Code: CHEM **Case No.:** Q2100 **SAS No.:** Q2100 **SDG NO.:** Q2100

Instrument ID: ECD_S

Calibration Date(s): 05/12/2025 05/12/2025

Calibration Times: 12:30 14:06

GC Column: RTX-CLP **ID:** 0.32 **(mm)**

LAB FILE ID: **CF 200 =** PS030125.D **CF 500 =** PS030126.D

CF 750 = PS030127.D **CF 1000 =** PS030128.D **CF 1500 =** PS030129.D

COMPOUND	CF 200	CF 500	CF 750	CF 1000	CF 1500	CF	% RSD
2,4,5-T	19806400000	16697600000	15922400000	15360700000	14788800000	16515200000	12
2,4,5-TP(Silvex)	19321200000	16303400000	15619800000	15128700000	14606800000	16196000000	11
2,4-D	4048870000	3291910000	3113030000	3014870000	2926010000	3278940000	14
2,4-DB	2822620000	2567110000	2564340000	2542470000	2552320000	2609770000	5
2,4-DCAA	3540840000	2868830000	2702520000	2609290000	2517560000	2847810000	14
DICAMBA	13660900000	11601800000	11140600000	10847100000	10536400000	11557400000	11
DICHLORPROP	3626670000	2931320000	2773470000	2680380000	2594880000	2921340000	14
Dinoseb	13788600000	11497400000	10989000000	10638600000	10268200000	11436400000	12

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CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: CAMP02

Lab Code: CHEM **Case No.:** Q2100 **SAS No.:** Q2100 **SDG NO.:** Q2100

Instrument ID: ECD_S

Calibration Date(s): 05/12/2025 05/12/2025

Calibration Times: 12:30 14:06

GC Column: RTX-CLP2 **ID:** 0.32 **(mm)**

LAB FILE ID: **CF 200 =** PS030125.D **CF 500 =** PS030126.D

CF 750 = PS030127.D **CF 1000 =** PS030128.D **CF 1500 =** PS030129.D

COMPOUND	CF 200	CF 500	CF 750	CF 1000	CF 1500	CF	% RSD
2,4,5-T	10274700000	9232570000	9042300000	8854580000	8613880000	9203610000	7
2,4,5-TP(Silvex)	10913400000	9868000000	9697110000	9517670000	9255920000	9850430000	6
2,4-D	1480680000	1290430000	1248060000	1225910000	1207420000	1290500000	9
2,4-DB	1268930000	952436000	948485000	881256000	910753000	992372000	16
2,4-DCAA	922885000	799420000	773490000	758361000	746863000	800204000	9
DICAMBA	5034950000	4673810000	4651340000	4635790000	4643990000	4727980000	4
DICHLORPROP	1388930000	1177530000	1140920000	1112240000	1087540000	1181430000	10
Dinoseb	7723880000	6842530000	6670660000	6540750000	6382090000	6831980000	8

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CALIBRATION VERIFICATION SUMMARY

Contract: CAMP02

Lab Code: CHEM **Case No.:** Q2100 **SAS No.:** Q2100 **SDG NO.:** Q2100

Continuing Calib Date: 05/23/2025 **Initial Calibration Date(s):** 05/12/2025 05/12/2025

Continuing Calib Time: 14:15 **Initial Calibration Time(s):** 12:30 14:06

GC Column: RTX-CLP **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
DICAMBA	7.10	7.11	7.01	7.21	0.01
2,4-DCAA	6.93	6.93	6.83	7.03	0.00
DICHLORPROP	7.78	7.79	7.69	7.89	0.01
2,4-D	8.00	8.01	7.91	8.11	0.01
2,4,5-TP(Silvex)	8.84	8.85	8.75	8.95	0.01
2,4,5-T	9.13	9.13	9.03	9.23	0.00
2,4-DB	9.68	9.69	9.59	9.79	0.01
Dinoseb	10.84	10.85	10.75	10.95	0.01

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CALIBRATION VERIFICATION SUMMARY

Contract: CAMP02

Lab Code: CHEM **Case No.:** Q2100 **SAS No.:** Q2100 **SDG NO.:** Q2100

Continuing Calib Date: 05/23/2025 **Initial Calibration Date(s):** 05/12/2025 05/12/2025

Continuing Calib Time: 14:15 **Initial Calibration Time(s):** 12:30 14:06

GC Column: RTX-CLP2 **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
DICAMBA	7.63	7.64	7.54	7.74	0.01
2,4-DCAA	7.44	7.45	7.35	7.55	0.01
DICHLORPROP	8.32	8.33	8.23	8.43	0.01
2,4-D	8.63	8.64	8.54	8.74	0.01
2,4,5-TP(Silvex)	9.51	9.52	9.42	9.62	0.01
2,4,5-T	9.91	9.93	9.83	10.03	0.02
2,4-DB	10.47	10.49	10.39	10.59	0.02
Dinoseb	10.84	10.86	10.76	10.96	0.02

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CALIBRATION VERIFICATION SUMMARY

Contract: CAMP02

Lab Code: CHEM **Case No.:** Q2100 **SAS No.:** Q2100 **SDG NO.:** Q2100

GC Column: RTX-CLP **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 05/12/2025 05/12/2025

Client Sample No.: CCAL01 **Date Analyzed:** 05/23/2025

Lab Sample No.: HSTDCCC750 **Data File :** PS030380.D **Time Analyzed:** 14:15

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-T	9.125	9.033	9.233	713.390	712.500	0.1
2,4,5-TP(Silvex)	8.842	8.750	8.950	723.370	712.500	1.5
2,4-D	8.003	7.910	8.110	698.890	705.000	-0.9
2,4-DB	9.681	9.589	9.789	744.800	712.500	4.5
2,4-DCAA	6.927	6.834	7.034	742.820	750.000	-1.0
DICAMBA	7.103	7.010	7.210	713.160	705.000	1.2
DICHLORPROP	7.783	7.689	7.889	697.750	705.000	-1.0
Dinoseb	10.841	10.751	10.951	680.110	705.000	-3.5

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CALIBRATION VERIFICATION SUMMARY

Contract: CAMP02

Lab Code: CHEM **Case No.:** Q2100 **SAS No.:** Q2100 **SDG NO.:** Q2100

GC Column: RTX-CLP2 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 05/12/2025 05/12/2025

Client Sample No.: CCAL01 **Date Analyzed:** 05/23/2025

Lab Sample No.: HSTDCCC750 **Data File :** PS030380.D **Time Analyzed:** 14:15

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-T	9.912	9.826	10.026	716.230	712.500	0.5
2,4,5-TP(Silvex)	9.509	9.423	9.623	725.180	712.500	1.8
2,4-D	8.632	8.544	8.744	701.140	705.000	-0.5
2,4-DB	10.470	10.385	10.585	611.550	712.500	-14.2
2,4-DCAA	7.444	7.354	7.554	729.960	750.000	-2.7
DICAMBA	7.629	7.539	7.739	715.670	705.000	1.5
DICHLORPROP	8.320	8.232	8.432	682.800	705.000	-3.1
Dinoseb	10.844	10.758	10.958	691.900	705.000	-1.9

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CALIBRATION VERIFICATION SUMMARY

Contract: CAMP02

Lab Code: CHEM **Case No.:** Q2100 **SAS No.:** Q2100 **SDG NO.:** Q2100

Continuing Calib Date: 05/23/2025 **Initial Calibration Date(s):** 05/12/2025 05/12/2025

Continuing Calib Time: 20:52 **Initial Calibration Time(s):** 12:30 14:06

GC Column: RTX-CLP **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
DICAMBA	7.10	7.11	7.01	7.21	0.01
2,4-DCAA	6.93	6.93	6.83	7.03	0.00
DICHLORPROP	7.78	7.79	7.69	7.89	0.01
2,4-D	8.00	8.01	7.91	8.11	0.01
2,4,5-TP(Silvex)	8.84	8.85	8.75	8.95	0.01
2,4,5-T	9.12	9.13	9.03	9.23	0.01
2,4-DB	9.68	9.69	9.59	9.79	0.01
Dinoseb	10.84	10.85	10.75	10.95	0.01

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CALIBRATION VERIFICATION SUMMARY

Contract: CAMP02

Lab Code: CHEM **Case No.:** Q2100 **SAS No.:** Q2100 **SDG NO.:** Q2100

Continuing Calib Date: 05/23/2025 **Initial Calibration Date(s):** 05/12/2025 05/12/2025

Continuing Calib Time: 20:52 **Initial Calibration Time(s):** 12:30 14:06

GC Column: RTX-CLP2 **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
DICAMBA	7.63	7.64	7.54	7.74	0.01
2,4-DCAA	7.44	7.45	7.35	7.55	0.01
DICHLORPROP	8.32	8.33	8.23	8.43	0.01
2,4-D	8.63	8.64	8.54	8.74	0.01
2,4,5-TP(Silvex)	9.51	9.52	9.42	9.62	0.01
2,4,5-T	9.91	9.93	9.83	10.03	0.02
2,4-DB	10.47	10.49	10.39	10.59	0.02
Dinoseb	10.84	10.86	10.76	10.96	0.02

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CALIBRATION VERIFICATION SUMMARY

Contract: CAMP02

Lab Code: CHEM **Case No.:** Q2100 **SAS No.:** Q2100 **SDG NO.:** Q2100

GC Column: RTX-CLP **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 05/12/2025 05/12/2025

Client Sample No.: CCAL02 **Date Analyzed:** 05/23/2025

Lab Sample No.: HSTDCCC750 **Data File :** PS030392.D **Time Analyzed:** 20:52

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-T	9.124	9.033	9.233	747.780	712.500	5.0
2,4,5-TP(Silvex)	8.842	8.750	8.950	749.620	712.500	5.2
2,4-D	8.003	7.910	8.110	727.740	705.000	3.2
2,4-DB	9.682	9.589	9.789	792.870	712.500	11.3
2,4-DCAA	6.927	6.834	7.034	768.250	750.000	2.4
DICAMBA	7.104	7.010	7.210	732.110	705.000	3.8
DICHLORPROP	7.782	7.689	7.889	723.740	705.000	2.7
Dinoseb	10.841	10.751	10.951	725.530	705.000	2.9

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CALIBRATION VERIFICATION SUMMARY

Contract: CAMP02

Lab Code: CHEM **Case No.:** Q2100 **SAS No.:** Q2100 **SDG NO.:** Q2100

GC Column: RTX-CLP2 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 05/12/2025 05/12/2025

Client Sample No.: CCAL02 **Date Analyzed:** 05/23/2025

Lab Sample No.: HSTDCCC750 **Data File :** PS030392.D **Time Analyzed:** 20:52

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-T	9.912	9.826	10.026	745.910	712.500	4.7
2,4,5-TP(Silvex)	9.509	9.423	9.623	752.180	712.500	5.6
2,4-D	8.632	8.544	8.744	732.820	705.000	3.9
2,4-DB	10.469	10.385	10.585	645.150	712.500	-9.5
2,4-DCAA	7.444	7.354	7.554	759.110	750.000	1.2
DICAMBA	7.629	7.539	7.739	740.440	705.000	5.0
DICHLORPROP	8.320	8.232	8.432	715.510	705.000	1.5
Dinoseb	10.843	10.758	10.958	722.560	705.000	2.5

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CALIBRATION VERIFICATION SUMMARY

Contract: CAMP02

Lab Code: CHEM **Case No.:** Q2100 **SAS No.:** Q2100 **SDG NO.:** Q2100

Continuing Calib Date: 05/24/2025 **Initial Calibration Date(s):** 05/12/2025 05/12/2025

Continuing Calib Time: 02:05 **Initial Calibration Time(s):** 12:30 14:06

GC Column: RTX-CLP **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
DICAMBA	7.10	7.11	7.01	7.21	0.01
2,4-DCAA	6.93	6.93	6.83	7.03	0.00
DICHLORPROP	7.78	7.79	7.69	7.89	0.01
2,4-D	8.00	8.01	7.91	8.11	0.01
2,4,5-TP(Silvex)	8.84	8.85	8.75	8.95	0.01
2,4,5-T	9.12	9.13	9.03	9.23	0.01
2,4-DB	9.68	9.69	9.59	9.79	0.01
Dinoseb	10.84	10.85	10.75	10.95	0.01

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CALIBRATION VERIFICATION SUMMARY

Contract: CAMP02

Lab Code: CHEM **Case No.:** Q2100 **SAS No.:** Q2100 **SDG NO.:** Q2100

Continuing Calib Date: 05/24/2025 **Initial Calibration Date(s):** 05/12/2025 05/12/2025

Continuing Calib Time: 02:05 **Initial Calibration Time(s):** 12:30 14:06

GC Column: RTX-CLP2 **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
DICAMBA	7.63	7.64	7.54	7.74	0.01
2,4-DCAA	7.44	7.45	7.35	7.55	0.01
DICHLORPROP	8.32	8.33	8.23	8.43	0.01
2,4-D	8.63	8.64	8.54	8.74	0.01
2,4,5-TP(Silvex)	9.51	9.52	9.42	9.62	0.01
2,4,5-T	9.91	9.93	9.83	10.03	0.02
2,4-DB	10.47	10.49	10.39	10.59	0.02
Dinoseb	10.84	10.86	10.76	10.96	0.02

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CALIBRATION VERIFICATION SUMMARY

Contract: CAMP02

Lab Code: CHEM **Case No.:** Q2100 **SAS No.:** Q2100 **SDG NO.:** Q2100

GC Column: RTX-CLP **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 05/12/2025 05/12/2025

Client Sample No.: CCAL03 **Date Analyzed:** 05/24/2025

Lab Sample No.: HSTDCCC750 **Data File :** PS030404.D **Time Analyzed:** 02:05

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-T	9.123	9.033	9.233	735.910	712.500	3.3
2,4,5-TP(Silvex)	8.841	8.750	8.950	735.680	712.500	3.3
2,4-D	8.001	7.910	8.110	721.420	705.000	2.3
2,4-DB	9.680	9.589	9.789	785.390	712.500	10.2
2,4-DCAA	6.926	6.834	7.034	761.020	750.000	1.5
DICAMBA	7.102	7.010	7.210	727.020	705.000	3.1
DICHLORPROP	7.782	7.689	7.889	716.650	705.000	1.7
Dinoseb	10.841	10.751	10.951	709.780	705.000	0.7

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CALIBRATION VERIFICATION SUMMARY

Contract: CAMP02

Lab Code: CHEM **Case No.:** Q2100 **SAS No.:** Q2100 **SDG NO.:** Q2100

GC Column: RTX-CLP2 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 05/12/2025 05/12/2025

Client Sample No.: CCAL03 **Date Analyzed:** 05/24/2025

Lab Sample No.: HSTDCCC750 **Data File :** PS030404.D **Time Analyzed:** 02:05

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-T	9.911	9.826	10.026	744.760	712.500	4.5
2,4,5-TP(Silvex)	9.508	9.423	9.623	749.740	712.500	5.2
2,4-D	8.631	8.544	8.744	731.630	705.000	3.8
2,4-DB	10.468	10.385	10.585	644.010	712.500	-9.6
2,4-DCAA	7.443	7.354	7.554	759.720	750.000	1.3
DICAMBA	7.628	7.539	7.739	741.390	705.000	5.2
DICHLORPROP	8.319	8.232	8.432	714.060	705.000	1.3
Dinoseb	10.842	10.758	10.958	723.800	705.000	2.7

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CALIBRATION VERIFICATION SUMMARY

Contract: CAMP02

Lab Code: CHEM **Case No.:** Q2100 **SAS No.:** Q2100 **SDG NO.:** Q2100

Continuing Calib Date: 05/24/2025 **Initial Calibration Date(s):** 05/12/2025 05/12/2025

Continuing Calib Time: 04:30 **Initial Calibration Time(s):** 12:30 14:06

GC Column: RTX-CLP **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
DICAMBA	7.10	7.11	7.01	7.21	0.01
2,4-DCAA	6.93	6.93	6.83	7.03	0.00
DICHLORPROP	7.78	7.79	7.69	7.89	0.01
2,4-D	8.00	8.01	7.91	8.11	0.01
2,4,5-TP(Silvex)	8.84	8.85	8.75	8.95	0.01
2,4,5-T	9.12	9.13	9.03	9.23	0.01
2,4-DB	9.68	9.69	9.59	9.79	0.01
Dinoseb	10.84	10.85	10.75	10.95	0.01

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CALIBRATION VERIFICATION SUMMARY

Contract: CAMP02

Lab Code: CHEM **Case No.:** Q2100 **SAS No.:** Q2100 **SDG NO.:** Q2100

Continuing Calib Date: 05/24/2025 **Initial Calibration Date(s):** 05/12/2025 05/12/2025

Continuing Calib Time: 04:30 **Initial Calibration Time(s):** 12:30 14:06

GC Column: RTX-CLP2 **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
DICAMBA	7.63	7.64	7.54	7.74	0.01
2,4-DCAA	7.44	7.45	7.35	7.55	0.01
DICHLORPROP	8.32	8.33	8.23	8.43	0.01
2,4-D	8.63	8.64	8.54	8.74	0.01
2,4,5-TP(Silvex)	9.51	9.52	9.42	9.62	0.01
2,4,5-T	9.91	9.93	9.83	10.03	0.02
2,4-DB	10.47	10.49	10.39	10.59	0.02
Dinoseb	10.84	10.86	10.76	10.96	0.02

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CALIBRATION VERIFICATION SUMMARY

Contract: CAMP02

Lab Code: CHEM **Case No.:** Q2100 **SAS No.:** Q2100 **SDG NO.:** Q2100

GC Column: RTX-CLP **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 05/12/2025 05/12/2025

Client Sample No.: CCAL04 **Date Analyzed:** 05/24/2025

Lab Sample No.: HSTDCCC750 **Data File :** PS030409.D **Time Analyzed:** 04:30

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-T	9.124	9.033	9.233	744.740	712.500	4.5
2,4,5-TP(Silvex)	8.841	8.750	8.950	744.430	712.500	4.5
2,4-D	8.002	7.910	8.110	724.030	705.000	2.7
2,4-DB	9.681	9.589	9.789	787.600	712.500	10.5
2,4-DCAA	6.926	6.834	7.034	765.020	750.000	2.0
DICAMBA	7.102	7.010	7.210	728.470	705.000	3.3
DICHLORPROP	7.782	7.689	7.889	719.810	705.000	2.1
Dinoseb	10.840	10.751	10.951	722.330	705.000	2.5

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CALIBRATION VERIFICATION SUMMARY

Contract: CAMP02

Lab Code: CHEM **Case No.:** Q2100 **SAS No.:** Q2100 **SDG NO.:** Q2100

GC Column: RTX-CLP2 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 05/12/2025 05/12/2025

Client Sample No.: CCAL04 **Date Analyzed:** 05/24/2025

Lab Sample No.: HSTDCCC750 **Data File :** PS030409.D **Time Analyzed:** 04:30

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-T	9.912	9.826	10.026	744.630	712.500	4.5
2,4,5-TP(Silvex)	9.508	9.423	9.623	752.190	712.500	5.6
2,4-D	8.631	8.544	8.744	730.500	705.000	3.6
2,4-DB	10.468	10.385	10.585	648.610	712.500	-9.0
2,4-DCAA	7.443	7.354	7.554	755.690	750.000	0.8
DICAMBA	7.628	7.539	7.739	738.590	705.000	4.8
DICHLORPROP	8.319	8.232	8.432	717.680	705.000	1.8
Dinoseb	10.842	10.758	10.958	726.080	705.000	3.0

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CALIBRATION VERIFICATION SUMMARY

Contract: CAMP02

Lab Code: CHEM **Case No.:** Q2100 **SAS No.:** Q2100 **SDG NO.:** Q2100

Continuing Calib Date: 05/29/2025 **Initial Calibration Date(s):** 05/12/2025 05/12/2025

Continuing Calib Time: 09:29 **Initial Calibration Time(s):** 12:30 14:06

GC Column: RTX-CLP **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
DICAMBA	7.10	7.11	7.01	7.21	0.01
2,4-DCAA	6.92	6.93	6.83	7.03	0.01
DICHLORPROP	7.78	7.79	7.69	7.89	0.01
2,4-D	8.00	8.01	7.91	8.11	0.01
2,4,5-TP(Silvex)	8.84	8.85	8.75	8.95	0.01
2,4,5-T	9.12	9.13	9.03	9.23	0.01
2,4-DB	9.68	9.69	9.59	9.79	0.01
Dinoseb	10.84	10.85	10.75	10.95	0.01

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CALIBRATION VERIFICATION SUMMARY

Contract: CAMP02

Lab Code: CHEM **Case No.:** Q2100 **SAS No.:** Q2100 **SDG NO.:** Q2100

Continuing Calib Date: 05/29/2025 **Initial Calibration Date(s):** 05/12/2025 05/12/2025

Continuing Calib Time: 09:29 **Initial Calibration Time(s):** 12:30 14:06

GC Column: RTX-CLP2 **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
DICAMBA	7.63	7.64	7.54	7.74	0.01
2,4-DCAA	7.44	7.45	7.35	7.55	0.01
DICHLORPROP	8.32	8.33	8.23	8.43	0.01
2,4-D	8.63	8.64	8.54	8.74	0.01
2,4,5-TP(Silvex)	9.50	9.52	9.42	9.62	0.02
2,4,5-T	9.91	9.93	9.83	10.03	0.02
2,4-DB	10.47	10.49	10.39	10.59	0.02
Dinoseb	10.84	10.86	10.76	10.96	0.02

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CALIBRATION VERIFICATION SUMMARY

Contract: CAMP02

Lab Code: CHEM **Case No.:** Q2100 **SAS No.:** Q2100 **SDG NO.:** Q2100

GC Column: RTX-CLP **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 05/12/2025 05/12/2025

Client Sample No.: CCAL05 **Date Analyzed:** 05/29/2025

Lab Sample No.: HSTDCCC750 **Data File :** PS030427.D **Time Analyzed:** 09:29

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-T	9.121	9.033	9.233	707.790	712.500	-0.7
2,4,5-TP(Silvex)	8.839	8.750	8.950	715.020	712.500	0.4
2,4-D	7.999	7.910	8.110	694.600	705.000	-1.5
2,4-DB	9.678	9.589	9.789	753.420	712.500	5.7
2,4-DCAA	6.924	6.834	7.034	731.220	750.000	-2.5
DICAMBA	7.101	7.010	7.210	703.340	705.000	-0.2
DICHLORPROP	7.780	7.689	7.889	685.990	705.000	-2.7
Dinoseb	10.837	10.751	10.951	678.950	705.000	-3.7

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CALIBRATION VERIFICATION SUMMARY

Contract: CAMP02

Lab Code: CHEM **Case No.:** Q2100 **SAS No.:** Q2100 **SDG NO.:** Q2100

GC Column: RTX-CLP2 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 05/12/2025 05/12/2025

Client Sample No.: CCAL05 **Date Analyzed:** 05/29/2025

Lab Sample No.: HSTDCCC750 **Data File :** PS030427.D **Time Analyzed:** 09:29

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-T	9.908	9.826	10.026	699.550	712.500	-1.8
2,4,5-TP(Silvex)	9.504	9.423	9.623	713.420	712.500	0.1
2,4-D	8.628	8.544	8.744	685.410	705.000	-2.8
2,4-DB	10.465	10.385	10.585	622.520	712.500	-12.6
2,4-DCAA	7.440	7.354	7.554	698.290	750.000	-6.9
DICAMBA	7.625	7.539	7.739	696.340	705.000	-1.2
DICHLORPROP	8.316	8.232	8.432	664.380	705.000	-5.8
Dinoseb	10.837	10.758	10.958	673.270	705.000	-4.5

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CALIBRATION VERIFICATION SUMMARY

Contract: CAMP02

Lab Code: CHEM **Case No.:** Q2100 **SAS No.:** Q2100 **SDG NO.:** Q2100

Continuing Calib Date: 05/29/2025 **Initial Calibration Date(s):** 05/12/2025 05/12/2025

Continuing Calib Time: 16:37 **Initial Calibration Time(s):** 12:30 14:06

GC Column: RTX-CLP **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
DICAMBA	7.10	7.11	7.01	7.21	0.01
2,4-DCAA	6.93	6.93	6.83	7.03	0.00
DICHLORPROP	7.78	7.79	7.69	7.89	0.01
2,4-D	8.00	8.01	7.91	8.11	0.01
2,4,5-TP(Silvex)	8.84	8.85	8.75	8.95	0.01
2,4,5-T	9.12	9.13	9.03	9.23	0.01
2,4-DB	9.68	9.69	9.59	9.79	0.01
Dinoseb	10.84	10.85	10.75	10.95	0.01

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CALIBRATION VERIFICATION SUMMARY

Contract: CAMP02

Lab Code: CHEM **Case No.:** Q2100 **SAS No.:** Q2100 **SDG NO.:** Q2100

Continuing Calib Date: 05/29/2025 **Initial Calibration Date(s):** 05/12/2025 05/12/2025

Continuing Calib Time: 16:37 **Initial Calibration Time(s):** 12:30 14:06

GC Column: RTX-CLP2 **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
DICAMBA	7.63	7.64	7.54	7.74	0.01
2,4-DCAA	7.44	7.45	7.35	7.55	0.01
DICHLORPROP	8.32	8.33	8.23	8.43	0.01
2,4-D	8.63	8.64	8.54	8.74	0.01
2,4,5-TP(Silvex)	9.51	9.52	9.42	9.62	0.01
2,4,5-T	9.91	9.93	9.83	10.03	0.02
2,4-DB	10.47	10.49	10.39	10.59	0.02
Dinoseb	10.84	10.86	10.76	10.96	0.02

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CALIBRATION VERIFICATION SUMMARY

Contract: CAMP02

Lab Code: CHEM **Case No.:** Q2100 **SAS No.:** Q2100 **SDG NO.:** Q2100

GC Column: RTX-CLP **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 05/12/2025 05/12/2025

Client Sample No.: CCAL06 **Date Analyzed:** 05/29/2025

Lab Sample No.: HSTDCCC750 **Data File :** PS030434.D **Time Analyzed:** 16:37

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-T	9.122	9.033	9.233	726.650	712.500	2.0
2,4,5-TP(Silvex)	8.840	8.750	8.950	730.580	712.500	2.5
2,4-D	8.000	7.910	8.110	706.920	705.000	0.3
2,4-DB	9.679	9.589	9.789	771.790	712.500	8.3
2,4-DCAA	6.925	6.834	7.034	742.200	750.000	-1.0
DICAMBA	7.101	7.010	7.210	713.300	705.000	1.2
DICHLORPROP	7.780	7.689	7.889	699.930	705.000	-0.7
Dinoseb	10.839	10.751	10.951	707.390	705.000	0.3

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CALIBRATION VERIFICATION SUMMARY

Contract: CAMP02

Lab Code: CHEM **Case No.:** Q2100 **SAS No.:** Q2100 **SDG NO.:** Q2100

GC Column: RTX-CLP2 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 05/12/2025 05/12/2025

Client Sample No.: CCAL06 **Date Analyzed:** 05/29/2025

Lab Sample No.: HSTDCCC750 **Data File :** PS030434.D **Time Analyzed:** 16:37

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-T	9.908	9.826	10.026	711.790	712.500	-0.1
2,4,5-TP(Silvex)	9.505	9.423	9.623	722.010	712.500	1.3
2,4-D	8.629	8.544	8.744	695.450	705.000	-1.4
2,4-DB	10.466	10.385	10.585	606.820	712.500	-14.8
2,4-DCAA	7.442	7.354	7.554	710.890	750.000	-5.2
DICAMBA	7.626	7.539	7.739	702.680	705.000	-0.3
DICHLORPROP	8.317	8.232	8.432	672.940	705.000	-4.5
Dinoseb	10.839	10.758	10.958	704.100	705.000	-0.1

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Analytical Sequence

Client: CDM Smith **SDG No.:** Q2100

Project: South River WM Replacement **Instrument ID:** ECD_S

GC Column: RTX-CLP **ID:** 0.32 (mm) **Inst. Calib. Date(s):** 05/12/2025 05/12/2025

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	05/12/2025	12:06	PS030124.D	6.93	0.00
HSTDICC200	HSTDICC200	05/12/2025	12:30	PS030125.D	6.93	0.00
HSTDICC500	HSTDICC500	05/12/2025	12:54	PS030126.D	6.93	0.00
HSTDICC750	HSTDICC750	05/12/2025	13:18	PS030127.D	6.93	0.00
HSTDICC1000	HSTDICC1000	05/12/2025	13:42	PS030128.D	6.93	0.00
HSTDICC1500	HSTDICC1500	05/12/2025	14:06	PS030129.D	6.93	0.00
I.BLK	I.BLK	05/23/2025	13:51	PS030379.D	6.93	0.00
HSTDCCC750	HSTDCCC750	05/23/2025	14:15	PS030380.D	6.93	0.00
PB168137BL	PB168137BL	05/23/2025	16:28	PS030381.D	6.93	0.00
PB168137BS	PB168137BS	05/23/2025	16:52	PS030382.D	6.93	0.00
I.BLK	I.BLK	05/23/2025	20:28	PS030391.D	6.93	0.00
HSTDCCC750	HSTDCCC750	05/23/2025	20:52	PS030392.D	6.93	0.00
TP-16	Q2100-01	05/23/2025	23:41	PS030398.D	6.93	0.00
TP-22	Q2100-02	05/24/2025	00:05	PS030399.D	6.93	0.00
TP-21	Q2100-03	05/24/2025	00:29	PS030400.D	6.93	0.00
I.BLK	I.BLK	05/24/2025	01:41	PS030403.D	6.93	0.00
HSTDCCC750	HSTDCCC750	05/24/2025	02:05	PS030404.D	6.93	0.00
TP-45	Q2100-04	05/24/2025	02:53	PS030405.D	6.93	0.00
I.BLK	I.BLK	05/24/2025	04:06	PS030408.D	6.93	0.00
HSTDCCC750	HSTDCCC750	05/24/2025	04:30	PS030409.D	6.93	0.00
I.BLK	I.BLK	05/29/2025	09:05	PS030426.D	6.92	0.00
HSTDCCC750	HSTDCCC750	05/29/2025	09:29	PS030427.D	6.92	0.00
TP-21MS	Q2100-03MS	05/29/2025	14:19	PS030429.D	6.93	0.00
TP-21MSD	Q2100-03MSD	05/29/2025	14:44	PS030430.D	6.93	0.00
I.BLK	I.BLK	05/29/2025	16:13	PS030433.D	6.93	0.00
HSTDCCC750	HSTDCCC750	05/29/2025	16:37	PS030434.D	6.93	0.00

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

Analytical Sequence

Client: CDM Smith **SDG No.:** Q2100

Project: South River WM Replacement **Instrument ID:** ECD_S

GC Column: RTX-CLP2 **ID:** 0.32 (mm) **Inst. Calib. Date(s):** 05/12/2025 05/12/2025

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	05/12/2025	12:06	PS030124.D	7.45	0.00
HSTDICC200	HSTDICC200	05/12/2025	12:30	PS030125.D	7.45	0.00
HSTDICC500	HSTDICC500	05/12/2025	12:54	PS030126.D	7.45	0.00
HSTDICC750	HSTDICC750	05/12/2025	13:18	PS030127.D	7.45	0.00
HSTDICC1000	HSTDICC1000	05/12/2025	13:42	PS030128.D	7.45	0.00
HSTDICC1500	HSTDICC1500	05/12/2025	14:06	PS030129.D	7.45	0.00
I.BLK	I.BLK	05/23/2025	13:51	PS030379.D	7.44	0.00
HSTDCCC750	HSTDCCC750	05/23/2025	14:15	PS030380.D	7.44	0.00
PB168137BL	PB168137BL	05/23/2025	16:28	PS030381.D	7.44	0.00
PB168137BS	PB168137BS	05/23/2025	16:52	PS030382.D	7.45	0.00
I.BLK	I.BLK	05/23/2025	20:28	PS030391.D	7.44	0.00
HSTDCCC750	HSTDCCC750	05/23/2025	20:52	PS030392.D	7.44	0.00
TP-16	Q2100-01	05/23/2025	23:41	PS030398.D	7.44	0.00
TP-22	Q2100-02	05/24/2025	00:05	PS030399.D	7.44	0.00
TP-21	Q2100-03	05/24/2025	00:29	PS030400.D	7.44	0.00
I.BLK	I.BLK	05/24/2025	01:41	PS030403.D	7.44	0.00
HSTDCCC750	HSTDCCC750	05/24/2025	02:05	PS030404.D	7.44	0.00
TP-45	Q2100-04	05/24/2025	02:53	PS030405.D	7.44	0.00
I.BLK	I.BLK	05/24/2025	04:06	PS030408.D	7.44	0.00
HSTDCCC750	HSTDCCC750	05/24/2025	04:30	PS030409.D	7.44	0.00
I.BLK	I.BLK	05/29/2025	09:05	PS030426.D	7.44	0.00
HSTDCCC750	HSTDCCC750	05/29/2025	09:29	PS030427.D	7.44	0.00
TP-21MS	Q2100-03MS	05/29/2025	14:19	PS030429.D	7.44	0.00
TP-21MSD	Q2100-03MSD	05/29/2025	14:44	PS030430.D	7.44	0.00
I.BLK	I.BLK	05/29/2025	16:13	PS030433.D	7.44	0.00
HSTDCCC750	HSTDCCC750	05/29/2025	16:37	PS030434.D	7.44	0.00

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Fax : 908 789 8922

COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

PB168137BS

Contract: CAMP02

Lab Code: CHEM **Case No.:** Q2100 **SAS No.:** Q2100 **SDG NO.:** Q2100

Lab Sample ID: PB168137BS **Date(s) Analyzed:** 05/23/2025 05/23/2025

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
DICHLORPROP	1	7.78	7.73	7.83	164	6.5
	2	8.32	8.27	8.37	175	
2,4-D	1	8.00	7.95	8.05	183	6.8
	2	8.63	8.58	8.68	171	
2,4,5-TP(Silvex)	1	8.84	8.79	8.89	167	0.6
	2	9.51	9.46	9.56	168	
2,4,5-T	1	9.13	9.08	9.18	165	5.6
	2	9.91	9.86	9.96	156	
2,4-DB	1	9.68	9.63	9.73	177	27.7
	2	10.47	10.42	10.52	134	
Dinoseb	1	10.84	10.79	10.89	148	8.5
	2	10.84	10.79	10.89	136	
DICAMBA	1	7.10	7.05	7.15	148	1.3
	2	7.63	7.58	7.68	150	

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Fax : 908 789 8922

COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

TP-21MS

Contract: CAMP02

Lab Code: CHEM **Case No.:** Q2100 **SAS No.:** Q2100 **SDG NO.:** Q2100

Lab Sample ID: Q2100-03MS **Date(s) Analyzed:** 05/29/2025 05/29/2025

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
DICHLORPROP	1	7.78	7.73	7.83	123	3.3
	2	8.31	8.26	8.36	119	
2,4-D	1	8.00	7.95	8.05	154	13.9
	2	8.63	8.58	8.68	134	
2,4,5-TP(Silvex)	1	8.84	8.79	8.89	120	2.5
	2	9.50	9.45	9.55	123	
2,4,5-T	1	9.12	9.07	9.17	122	3.3
	2	9.91	9.86	9.96	118	
2,4-DB	1	9.68	9.63	9.73	156	34.6
	2	10.46	10.41	10.51	110	
Dinoseb	1	10.84	10.79	10.89	20.4	1
	2	10.84	10.79	10.89	20.6	
DICAMBA	1	7.10	7.05	7.15	117	7.1
	2	7.62	7.57	7.67	109	

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Fax : 908 789 8922

COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

TP-21MSD

Contract: CAMP02

Lab Code: CHEM **Case No.:** Q2100 **SAS No.:** Q2100 **SDG NO.:** Q2100

Lab Sample ID: Q2100-03MSD **Date(s) Analyzed:** 05/29/2025 05/29/2025

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
DICHLORPROP	1	7.78	7.73	7.83	128	12.4
	2	8.32	8.27	8.37	113	
2,4-D	1	8.00	7.95	8.05	146	5.6
	2	8.63	8.58	8.68	138	
2,4,5-TP(Silvex)	1	8.84	8.79	8.89	128	0.8
	2	9.50	9.45	9.55	129	
2,4,5-T	1	9.12	9.07	9.17	127	3.2
	2	9.91	9.86	9.96	123	
2,4-DB	1	9.68	9.63	9.73	158	31.5
	2	10.47	10.42	10.52	115	
Dinoseb	1	10.84	10.79	10.89	20.5	0.5
	2	10.84	10.79	10.89	20.6	
DICAMBA	1	7.10	7.05	7.15	121	5.1
	2	7.62	7.57	7.67	115	

SAMPLE RAW DATA

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS052325\
Data File : PS030398.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 23 May 2025 23:41
Operator : AR\AJ
Sample : Q2100-01
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
TP-16

Manual Integrations APPROVED

Reviewed By :Abdul Mirza 05/27/2025
Supervised By :mohammad ahmed 05/28/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 24 01:54:41 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS051225.M
Quant Title : 8080.M
QLast Update : Mon May 12 14:29:24 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	6.925	7.443	1023.6E6	257.6E6	359.442m	321.899m
	Target Compounds						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

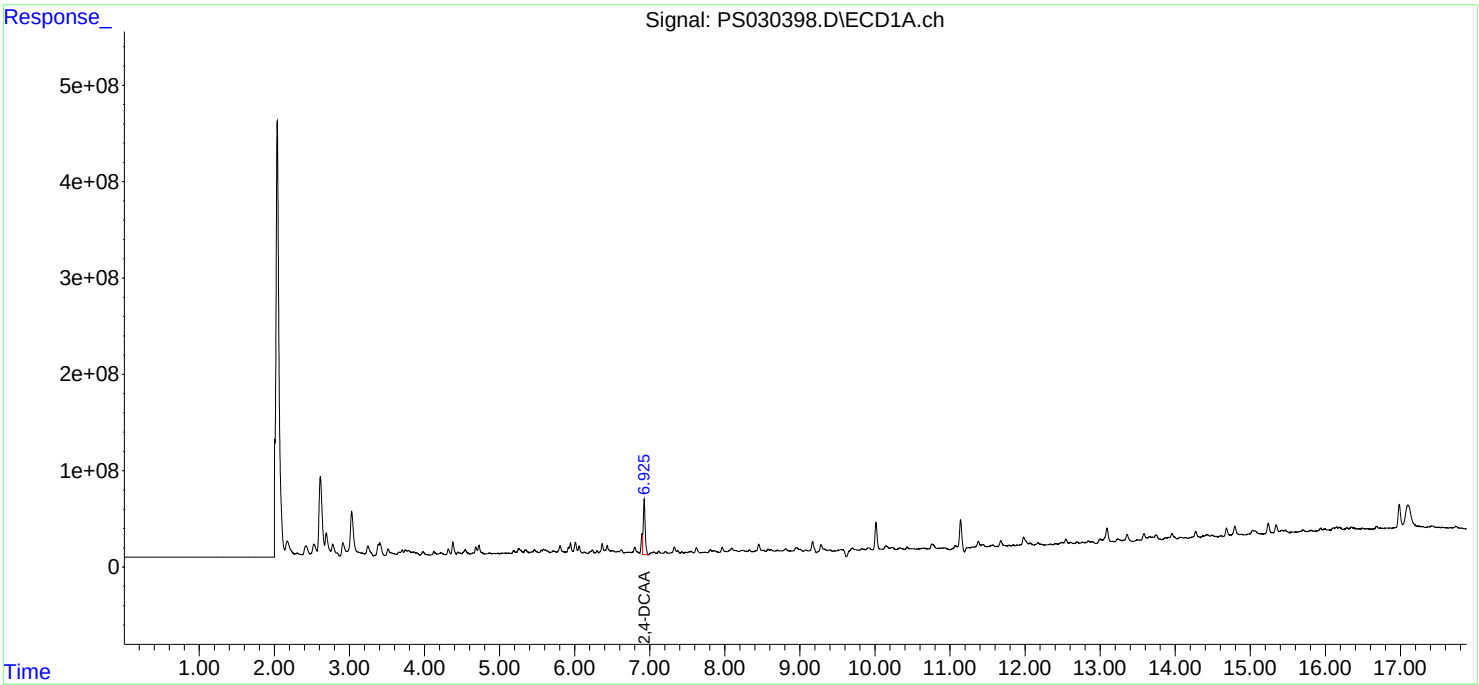
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS052325\
Data File : PS030398.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 23 May 2025 23:41
Operator : AR\AJ
Sample : Q2100-01
Misc :
ALS Vial : 25 Sample Multiplier: 1

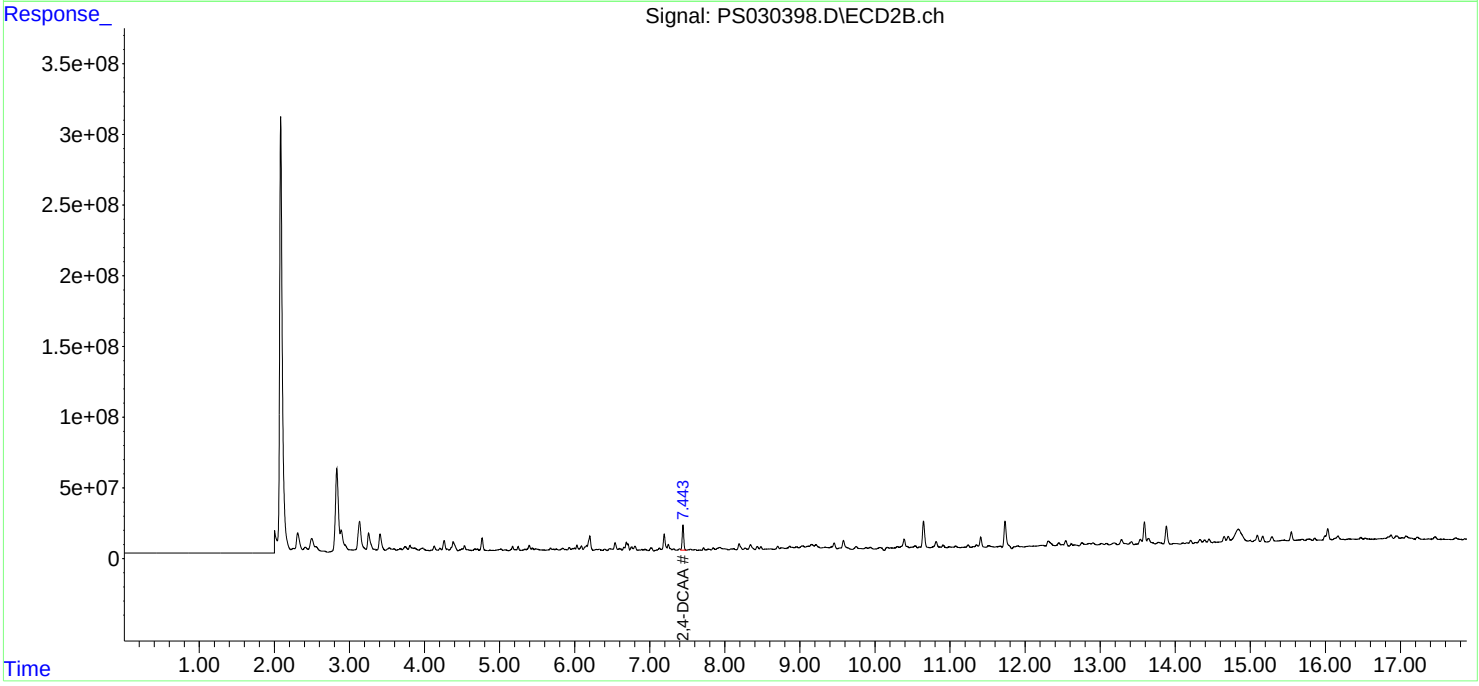
Instrument :
ECD_S
ClientSampleId :
TP-16

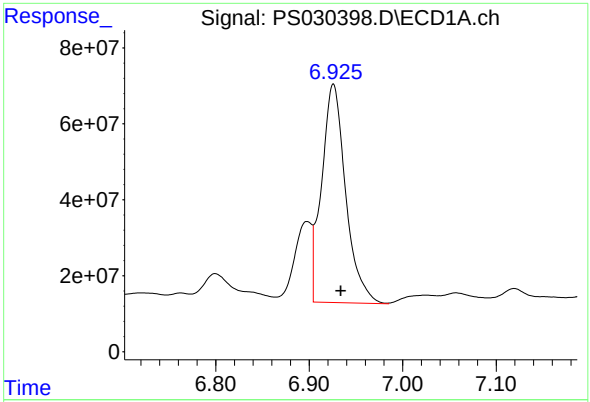
Manual Integrations APPROVED
Reviewed By :Abdul Mirza 05/27/2025
Supervised By :mohammad ahmed 05/28/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 24 01:54:41 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS051225.M
Quant Title : 8080.M
QLast Update : Mon May 12 14:29:24 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







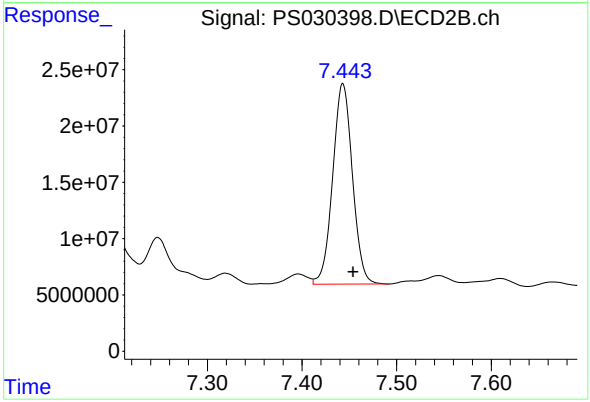
#4 2,4-DCAA

R.T.: 6.925 min
Delta R.T.: -0.008 min
Response: 1023622686
Conc: 359.44 ng/ml

Instrument :
ECD_S
ClientSampleId :
TP-16

Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 05/27/2025
Supervised By :mohammad ahmed 05/28/2025



#4 2,4-DCAA

R.T.: 7.443 min
Delta R.T.: -0.011 min
Response: 257584907
Conc: 321.90 ng/ml m

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS052325\
Data File : PS030399.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 May 2025 00:05
Operator : AR\AJ
Sample : Q2100-02
Misc :
ALS Vial : 26 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
TP-22

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 24 01:55:02 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS051225.M
Quant Title : 8080.M
QLast Update : Mon May 12 14:29:24 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	6.927	7.442	851.4E6	223.4E6	298.977	279.171
	Target Compounds						

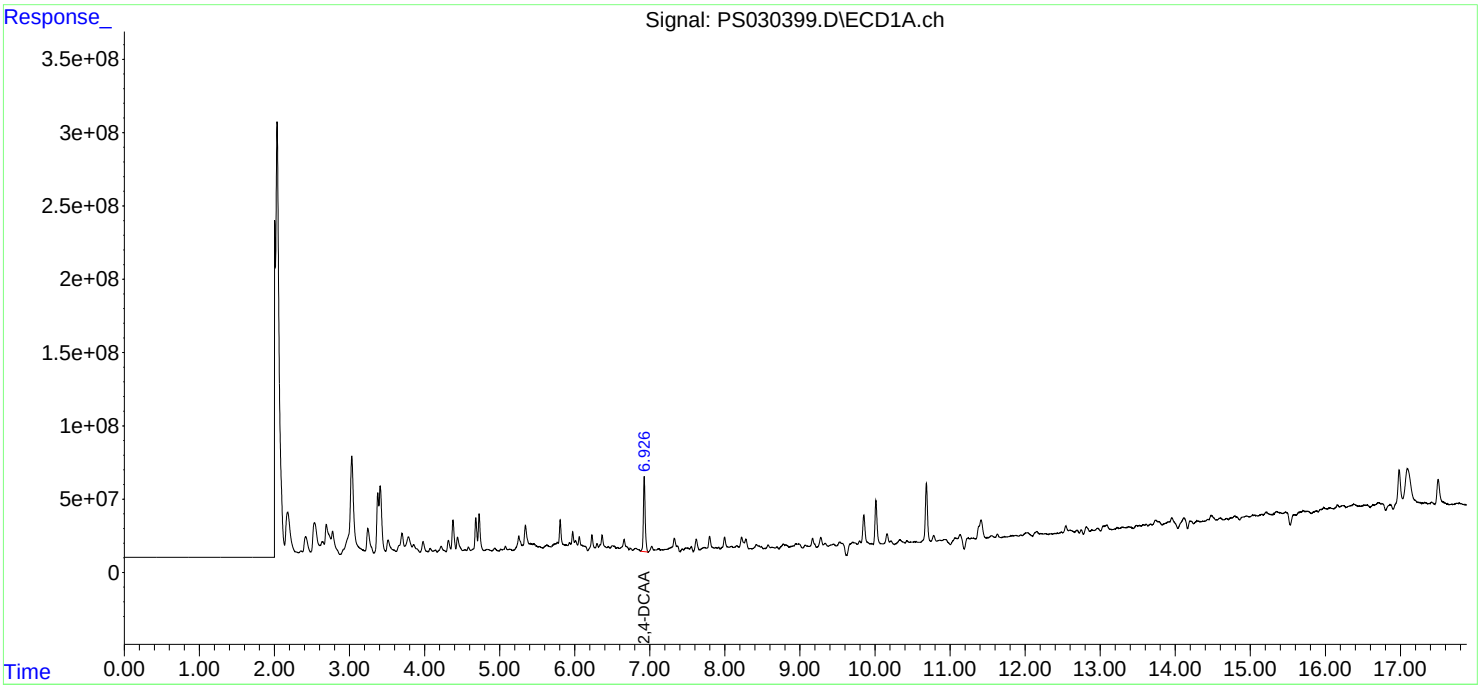
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

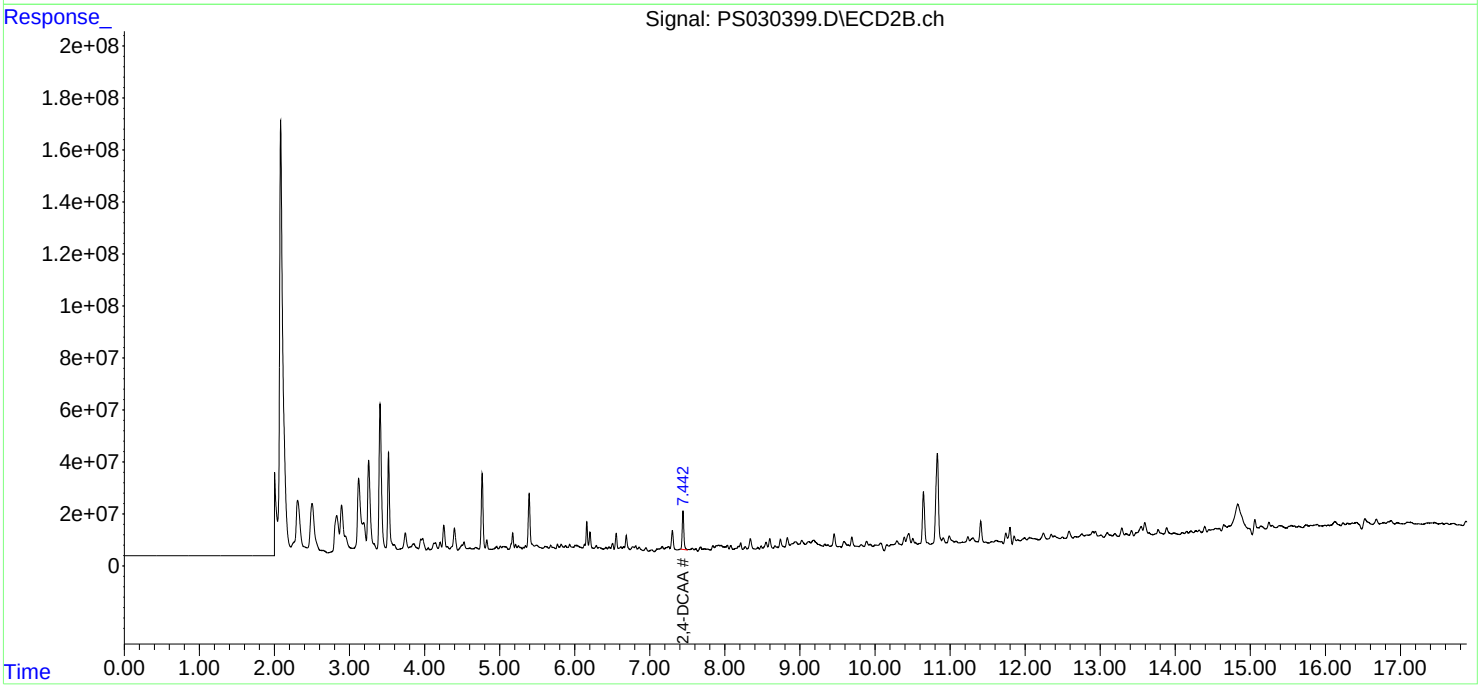
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS052325\
Data File : PS030399.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 May 2025 00:05
Operator : AR\AJ
Sample : Q2100-02
Misc :
ALS Vial : 26 Sample Multiplier: 1

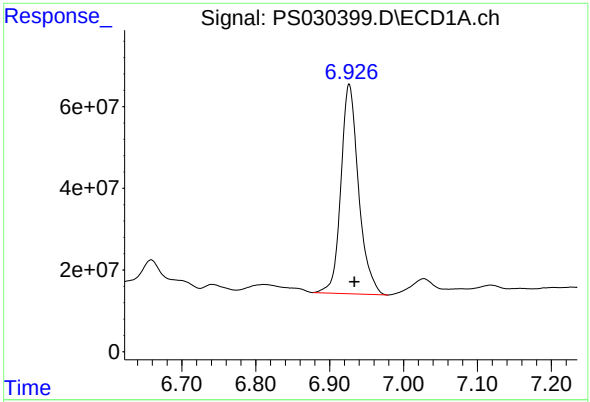
Instrument :
ECD_S
ClientSampleId :
TP-22

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 24 01:55:02 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS051225.M
Quant Title : 8080.M
QLast Update : Mon May 12 14:29:24 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



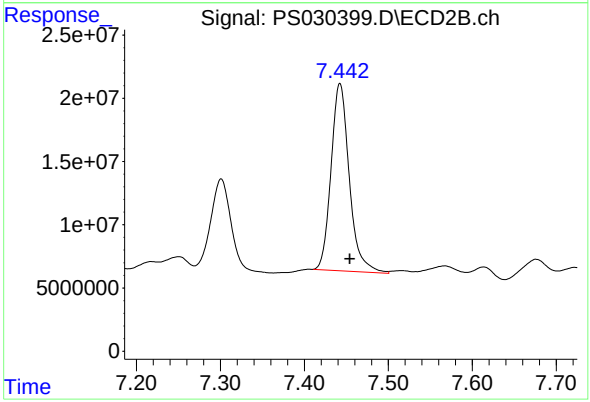




#4 2,4-DCAA

R.T.: 6.927 min
Delta R.T.: -0.007 min
Response: 851428642
Conc: 298.98 ng/ml

Instrument :
ECD_S
ClientSampleId :
TP-22



#4 2,4-DCAA

R.T.: 7.442 min
Delta R.T.: -0.012 min
Response: 223393413
Conc: 279.17 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS052325\
Data File : PS030400.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 May 2025 00:29
Operator : AR\AJ
Sample : Q2100-03
Misc :
ALS Vial : 27 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
TP-21

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 24 01:55:15 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS051225.M
Quant Title : 8080.M
QLast Update : Mon May 12 14:29:24 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	6.927	7.443	718.7E6	187.1E6	252.386	233.775
	Target Compounds						

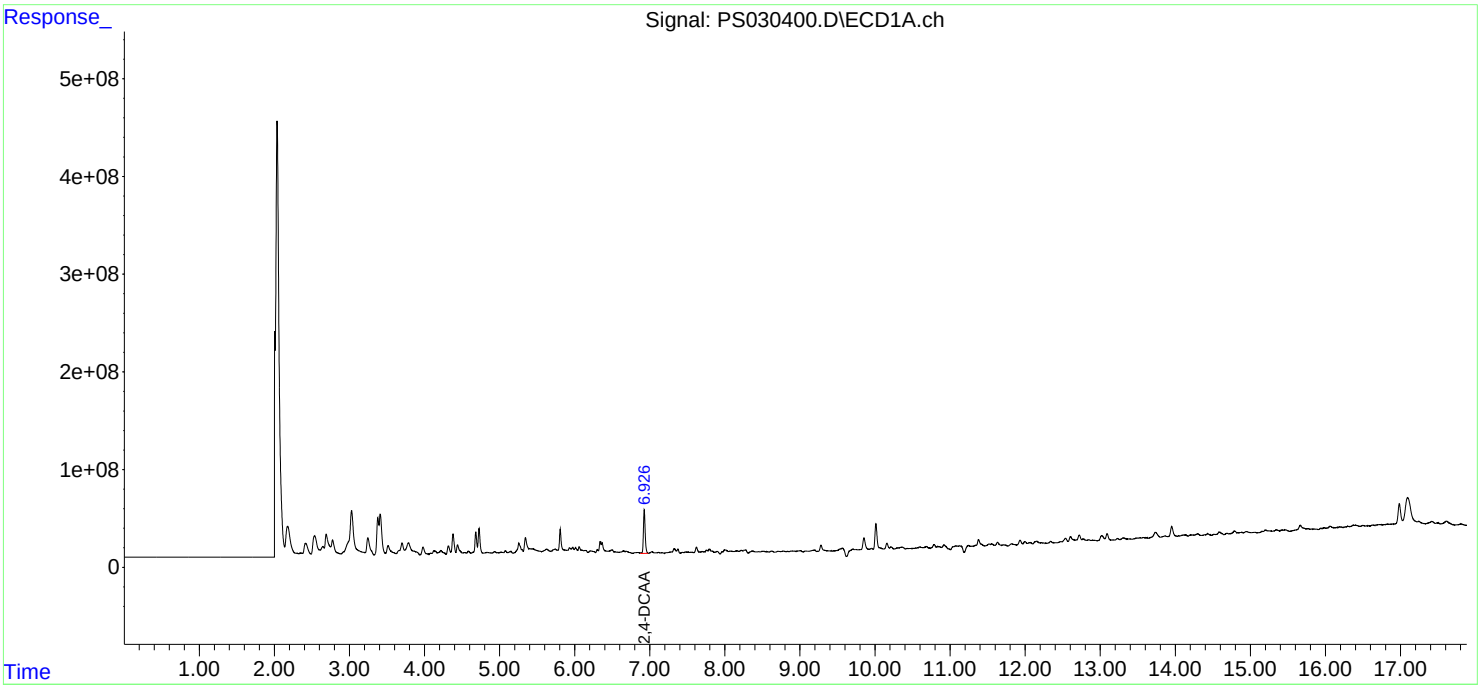
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

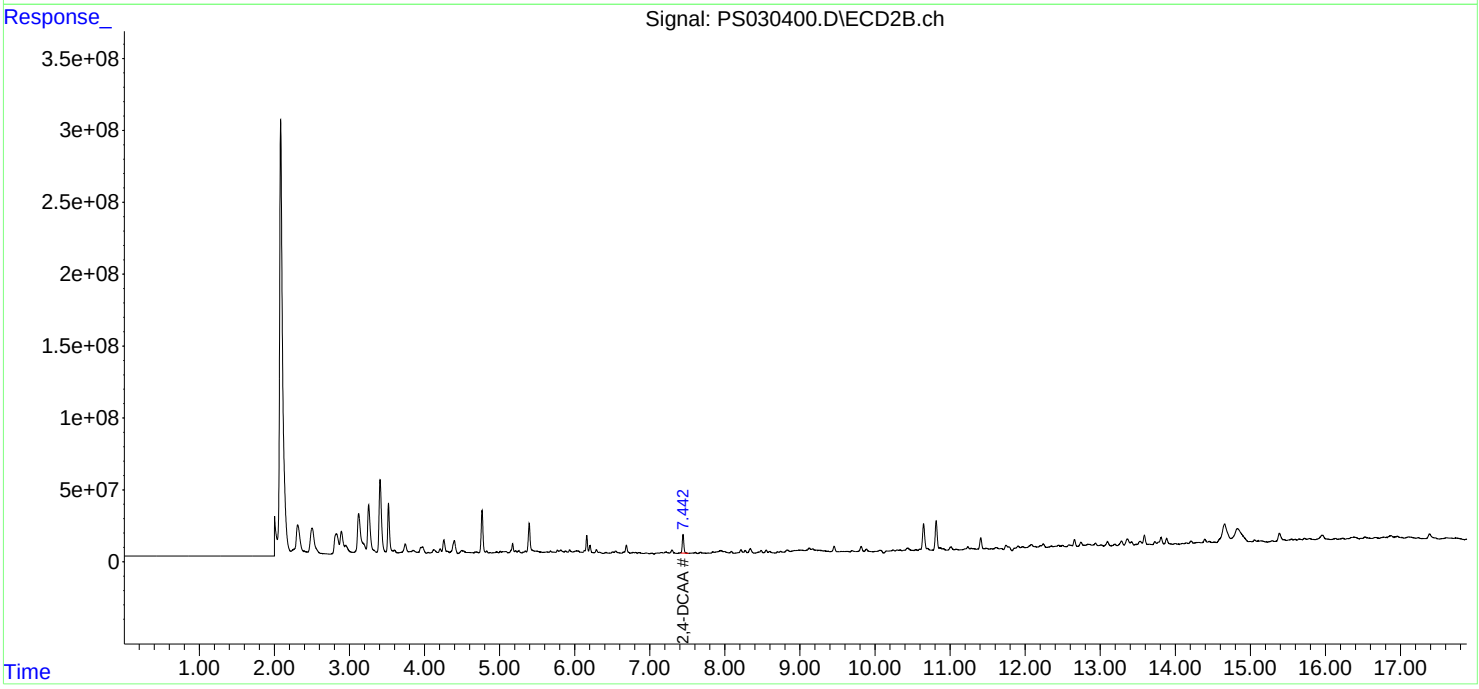
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS052325\
Data File : PS030400.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 May 2025 00:29
Operator : AR\AJ
Sample : Q2100-03
Misc :
ALS Vial : 27 Sample Multiplier: 1

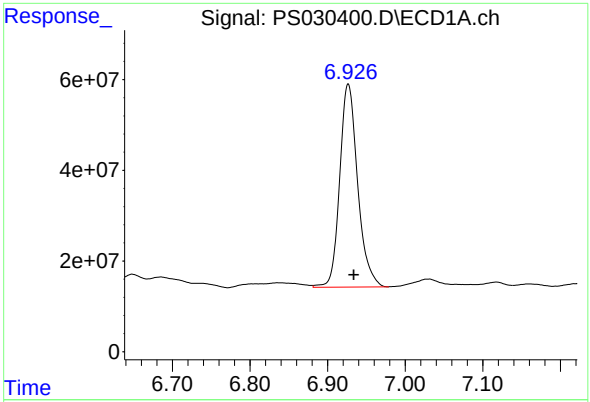
Instrument :
ECD_S
ClientSampleId :
TP-21

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 24 01:55:15 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS051225.M
Quant Title : 8080.M
QLast Update : Mon May 12 14:29:24 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 0.25µm



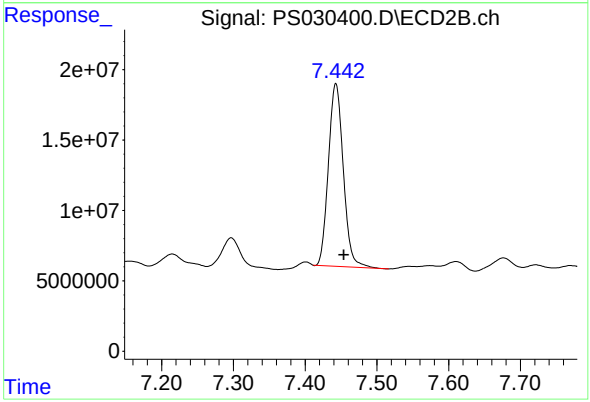




#4 2,4-DCAA

R.T.: 6.927 min
Delta R.T.: -0.007 min
Response: 718747131
Conc: 252.39 ng/ml

Instrument :
ECD_S
ClientSampleId :
TP-21



#4 2,4-DCAA

R.T.: 7.443 min
Delta R.T.: -0.011 min
Response: 187067641
Conc: 233.78 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS052325\
Data File : PS030405.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 May 2025 02:53
Operator : AR\AJ
Sample : Q2100-04
Misc :
ALS Vial : 30 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
TP-45

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 24 04:34:56 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS051225.M
Quant Title : 8080.M
QLast Update : Mon May 12 14:29:24 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	6.927	7.442	796.5E6	203.3E6	279.675	254.020
	Target Compounds						

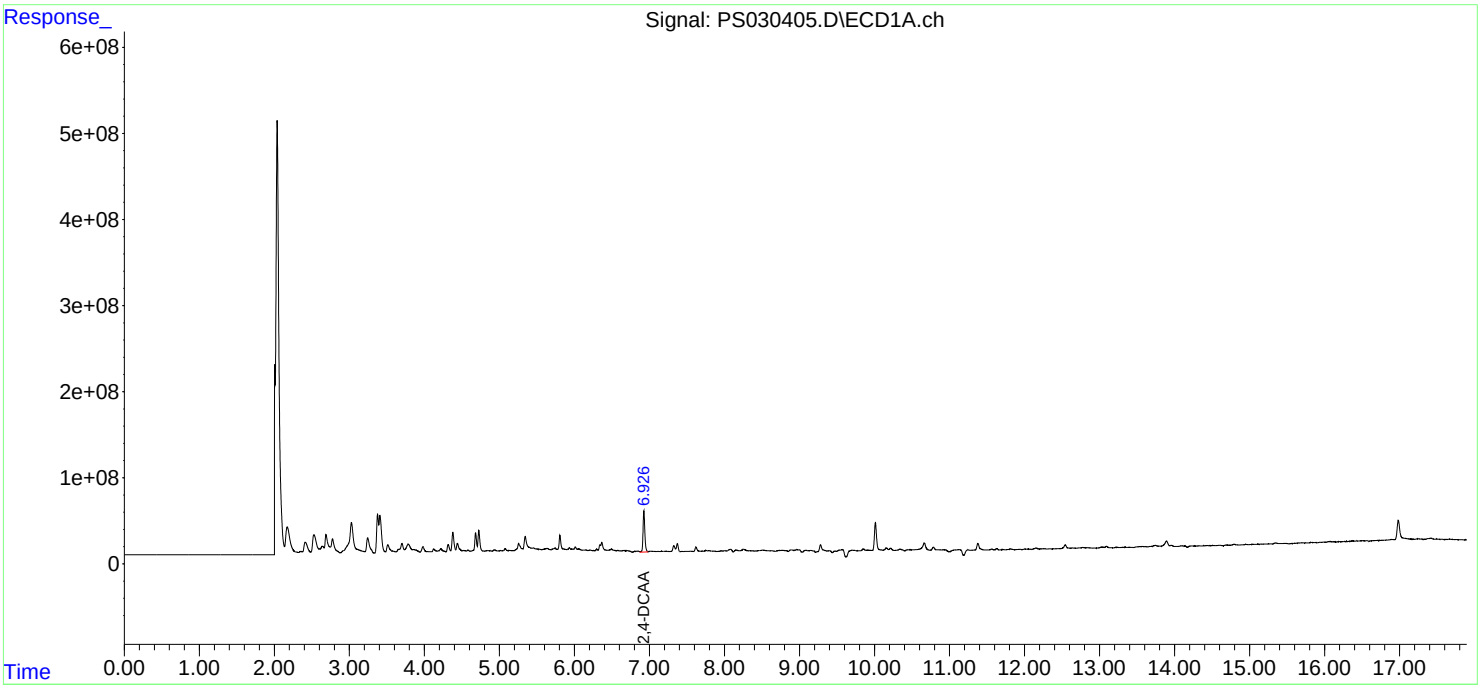
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

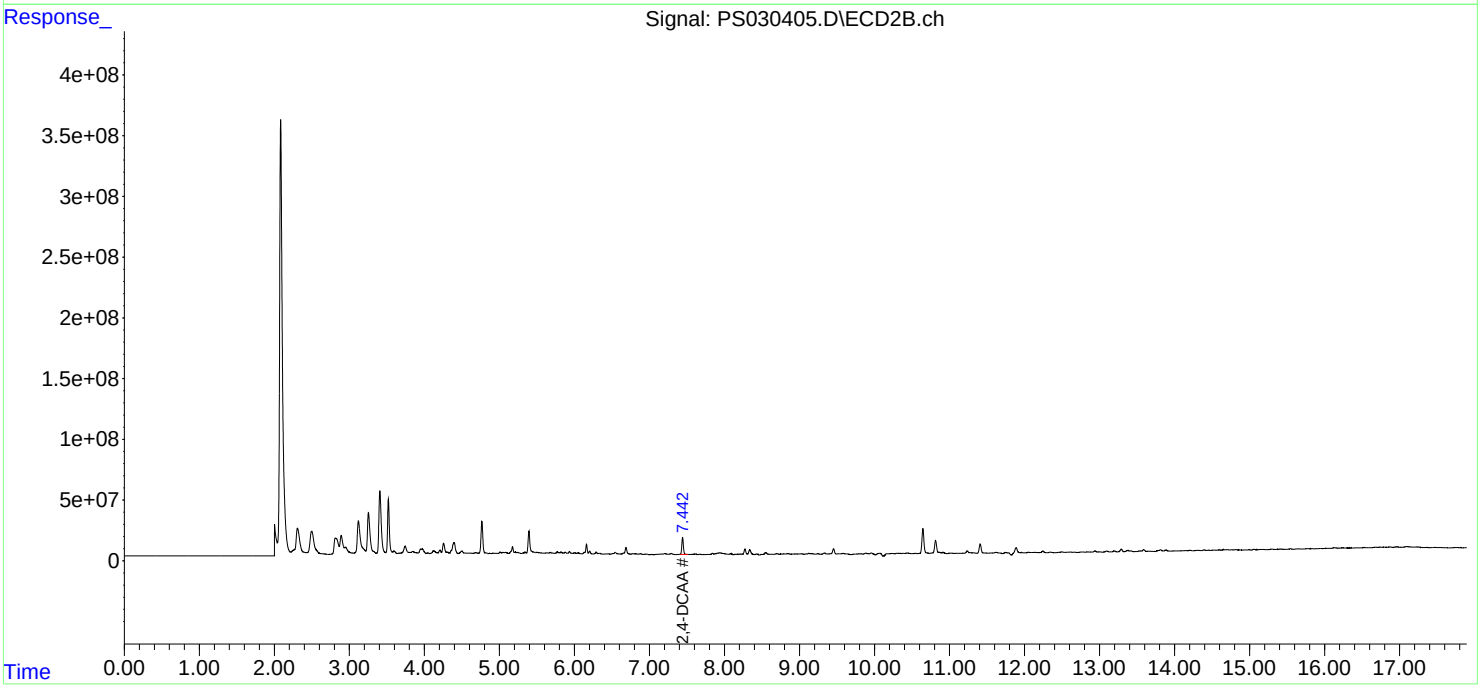
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS052325\
Data File : PS030405.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 May 2025 02:53
Operator : AR\AJ
Sample : Q2100-04
Misc :
ALS Vial : 30 Sample Multiplier: 1

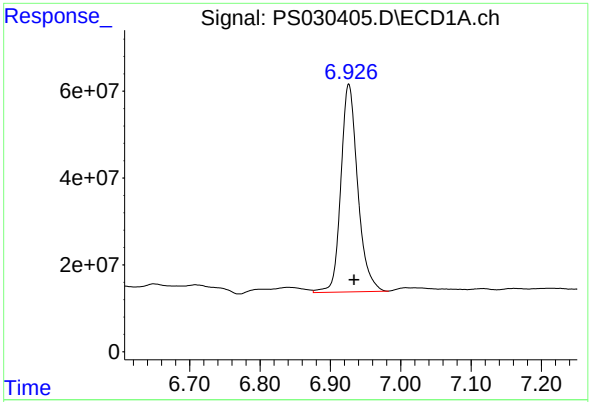
Instrument :
ECD_S
ClientSampleId :
TP-45

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 24 04:34:56 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS051225.M
Quant Title : 8080.M
QLast Update : Mon May 12 14:29:24 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



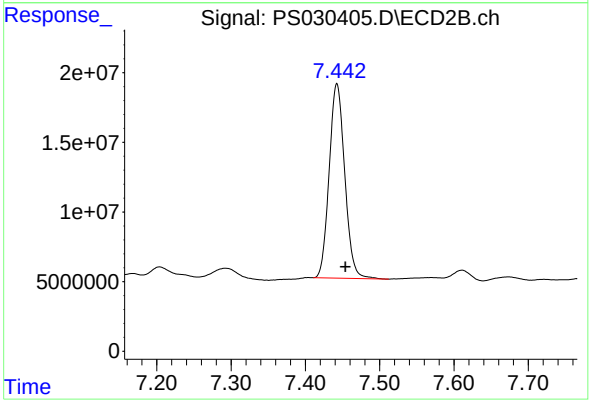




#4 2,4-DCAA

R.T.: 6.927 min
Delta R.T.: -0.007 min
Response: 796461582
Conc: 279.68 ng/ml

Instrument :
ECD_S
ClientSampleId :
TP-45



#4 2,4-DCAA

R.T.: 7.442 min
Delta R.T.: -0.011 min
Response: 203267346
Conc: 254.02 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS052325\
Data File : PS030381.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 23 May 2025 16:28
Operator : AR\AJ
Sample : PB168137BL
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
PB168137BL

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 23 22:33:28 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS051225.M
Quant Title : 8080.M
QLast Update : Mon May 12 14:29:24 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	6.928	7.444	1277.2E6	324.8E6	448.500	405.835
	Target Compounds						

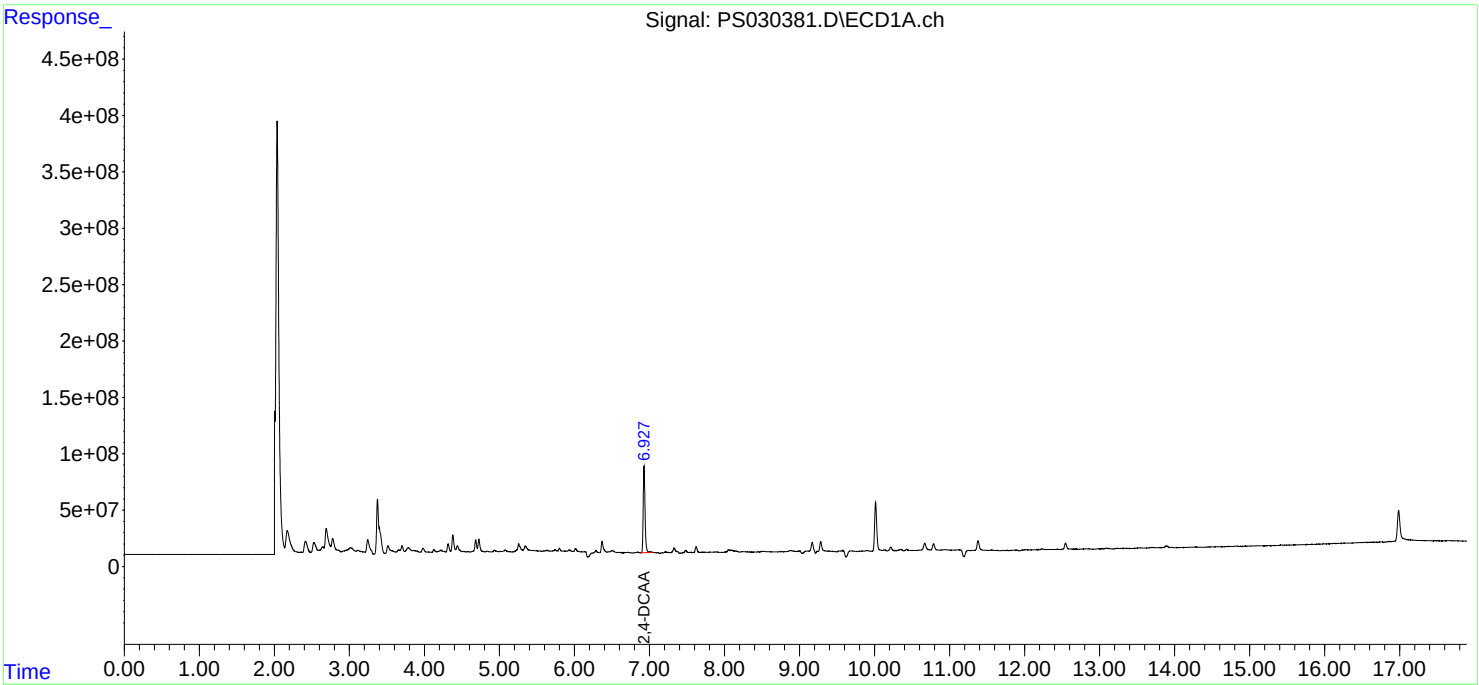
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

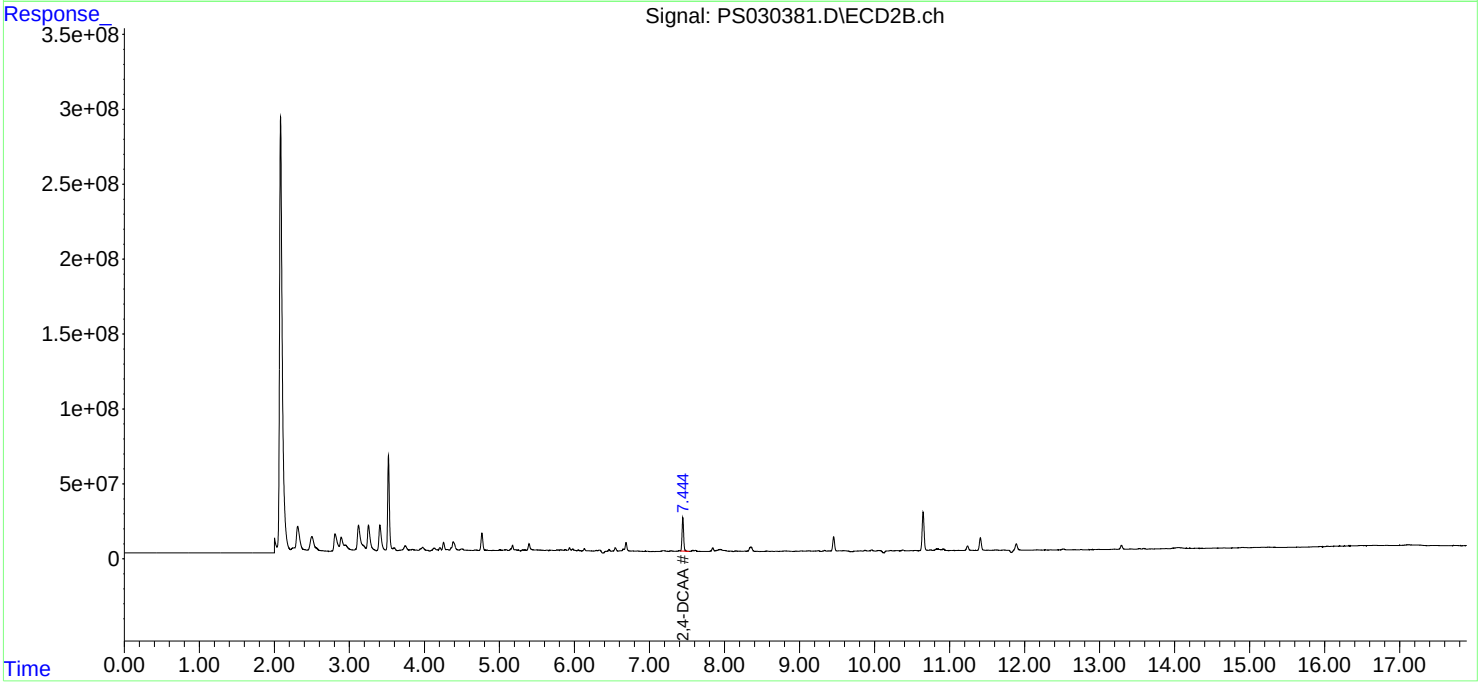
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS052325\
Data File : PS030381.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 23 May 2025 16:28
Operator : AR\AJ
Sample : PB168137BL
Misc :
ALS Vial : 10 Sample Multiplier: 1

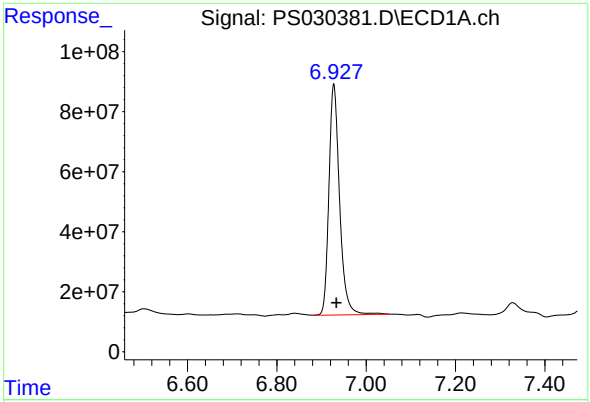
Instrument :
ECD_S
ClientSampleId :
PB168137BL

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 23 22:33:28 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS051225.M
Quant Title : 8080.M
QLast Update : Mon May 12 14:29:24 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



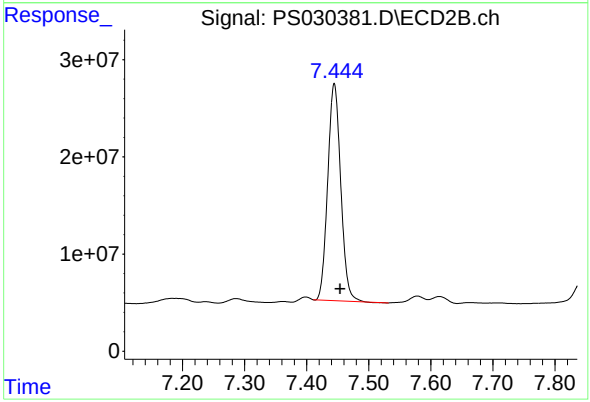




#4 2,4-DCAA

R.T.: 6.928 min
Delta R.T.: -0.006 min
Response: 1277241631
Conc: 448.50 ng/ml

Instrument :
ECD_S
ClientSampleId :
PB168137BL



#4 2,4-DCAA

R.T.: 7.444 min
Delta R.T.: -0.009 min
Response: 324750788
Conc: 405.84 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS052325\
Data File : PS030382.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 23 May 2025 16:52
Operator : AR\AJ
Sample : PB168137BS
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
PB168137BS

Manual Integrations APPROVED
Reviewed By :Abdul Mirza 05/27/2025
Supervised By :mohammad ahmed 05/28/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 23 22:33:45 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS051225.M
Quant Title : 8080.M
QLast Update : Mon May 12 14:29:24 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	6.928	7.445	1451.0E6	348.4E6	509.513	435.331
	Target Compounds						
1) T	Dalapon	2.442	2.514	2136.5E6	1507.8E6	434.663	742.393 #
2) T	3,5-DICHL...	6.133	6.446	2113.8E6	519.9E6	506.838	445.920
3) T	4-Nitroph...	6.718	6.980	875.5E6	401.4E6	423.842	384.489
5) T	DICAMBA	7.104	7.629	5133.4E6	2125.4E6	444.167	449.539
6) T	MCPP	7.282	7.737	321.3E6	70446839	44.112m	38.291
7) T	MCPA	7.424	7.965	438.6E6	112.7E6	42.246	42.737
8) T	DICHLORPROP	7.783	8.321	1441.3E6	620.8E6	493.364	525.429
9) T	2,4-D	8.003	8.633	1805.4E6	660.7E6	550.599	511.990
10) T	Pentachlo...	8.280	9.132	21312.5E6	12267.0E6	526.224	496.943
11) T	2,4,5-TP ...	8.843	9.509	8115.6E6	4954.7E6	501.089	502.994
12) T	2,4,5-T	9.125	9.913	8157.5E6	4320.5E6	493.937	469.437
13) T	2,4-DB	9.683	10.470	1390.2E6	398.6E6	532.689	401.701m
14) T	DINOSEB	10.842	10.844	5066.7E6	2789.8E6	443.037	408.342
15) T	Picloram	10.663	11.876	8363.7E6	5941.6E6	391.064	422.193m
16) T	DCPA	11.144	11.874	9564.4E6	4948.9E6	480.348	366.302m

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

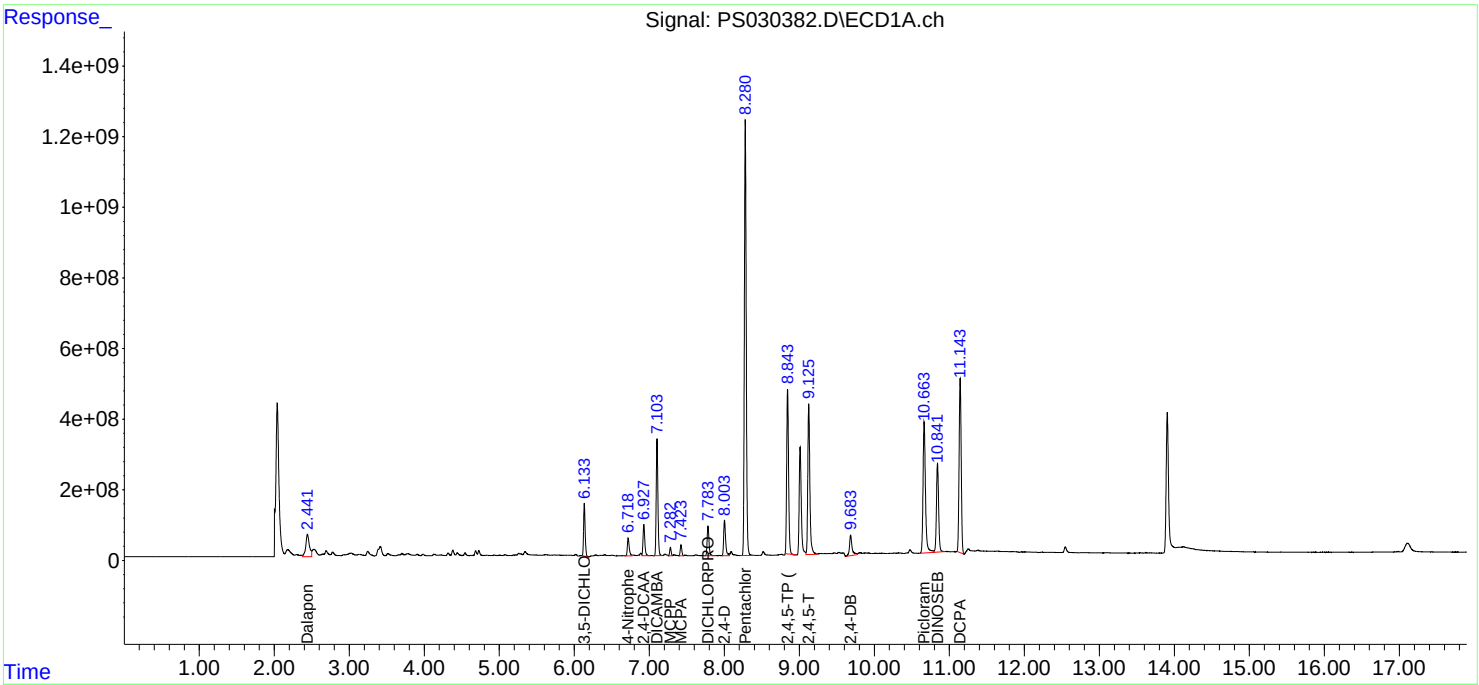
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS052325\
Data File : PS030382.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 23 May 2025 16:52
Operator : AR\AJ
Sample : PB168137BS
Misc :
ALS Vial : 11 Sample Multiplier: 1

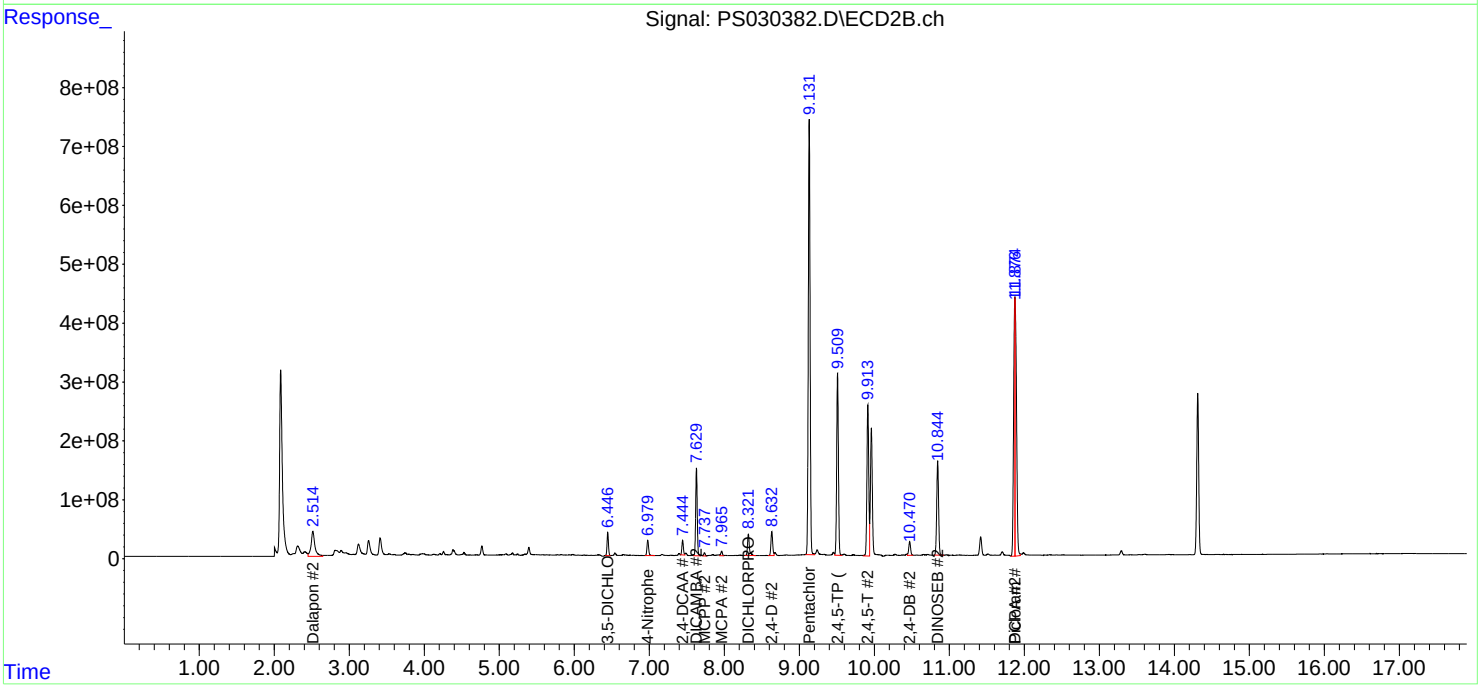
Instrument :
ECD_S
ClientSampleId :
PB168137BS

Manual Integrations APPROVED
Reviewed By :Abdul Mirza 05/27/2025
Supervised By :mohammad ahmed 05/28/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 23 22:33:45 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS051225.M
Quant Title : 8080.M
QLast Update : Mon May 12 14:29:24 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\PS052925\
Data File : PS030429.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 29 May 2025 14:19
Operator : AR\AJ
Sample : Q2100-03MS
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
TP-21MS

Manual Integrations APPROVED
Reviewed By :Abdul Mirza 05/30/2025
Supervised By :mohammad ahmed 05/30/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 29 23:27:16 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS051225.M
Quant Title : 8080.M
QLast Update : Mon May 12 14:29:24 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	6.926	7.438	802.4E6	198.9E6	281.764	248.580
	Target Compounds						
1) T	Dalapon	2.437	2.505	1204.8E6	882.5E6	245.115	434.516 #
2) T	3,5-DICHL...	6.131	6.440	1282.4E6	303.5E6	307.497	260.367
3) T	4-Nitroph...	6.717	6.973	586.4E6	262.9E6	283.873	251.833
5) T	DICAMBA	7.102	7.622	3160.1E6	1204.2E6	273.426	254.706m
6) T	MCPP	7.278	7.730	162.8E6	33422728	22.359m	18.167
7) T	MCPA	7.421	7.956	231.8E6	56500015	22.325	21.420m
8) T	DICHLORPROP	7.781	8.314	845.1E6	330.5E6	289.279	279.767m
9) T	2,4-D	8.001	8.627	1183.2E6	407.3E6	360.837	315.612
10) T	Pentachlo...	8.278	9.125	12007.7E6	6814.8E6	296.482	276.069
11) T	2,4,5-TP ...	8.841	9.503	4559.5E6	2852.8E6	281.521	289.609
12) T	2,4,5-T	9.124	9.906	4732.9E6	2540.1E6	286.578	275.989
13) T	2,4-DB	9.682	10.464	956.1E6	256.3E6	366.360	258.282 #
14) T	DINOSEB	10.840	10.835	546.9E6	330.2E6	47.820	48.326m
15) T	Picloram	10.661	11.868	5067.0E6	3578.0E6	236.921	254.246m
16) T	DCPA	11.142	11.864	5422.7E6	2666.2E6	272.340	197.342m#

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

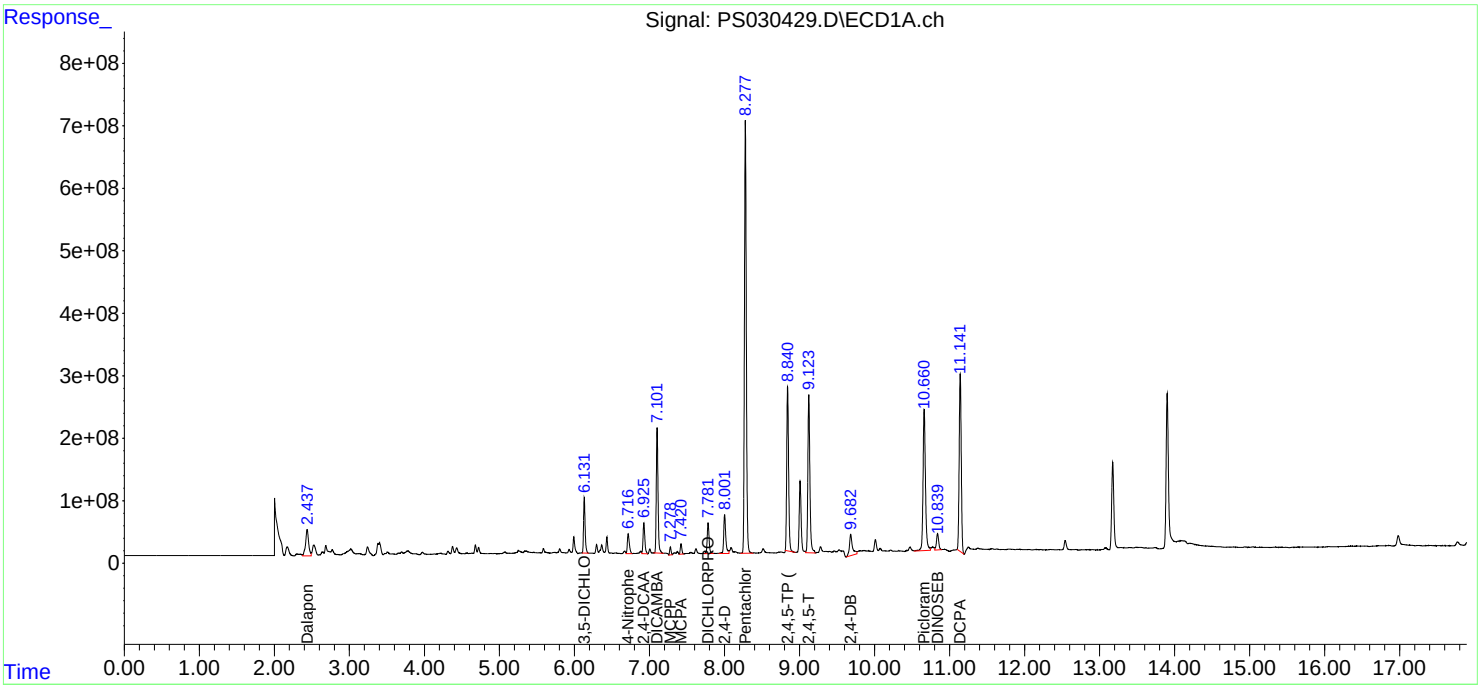
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS052925\
Data File : PS030429.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 29 May 2025 14:19
Operator : AR\AJ
Sample : Q2100-03MS
Misc :
ALS Vial : 5 Sample Multiplier: 1

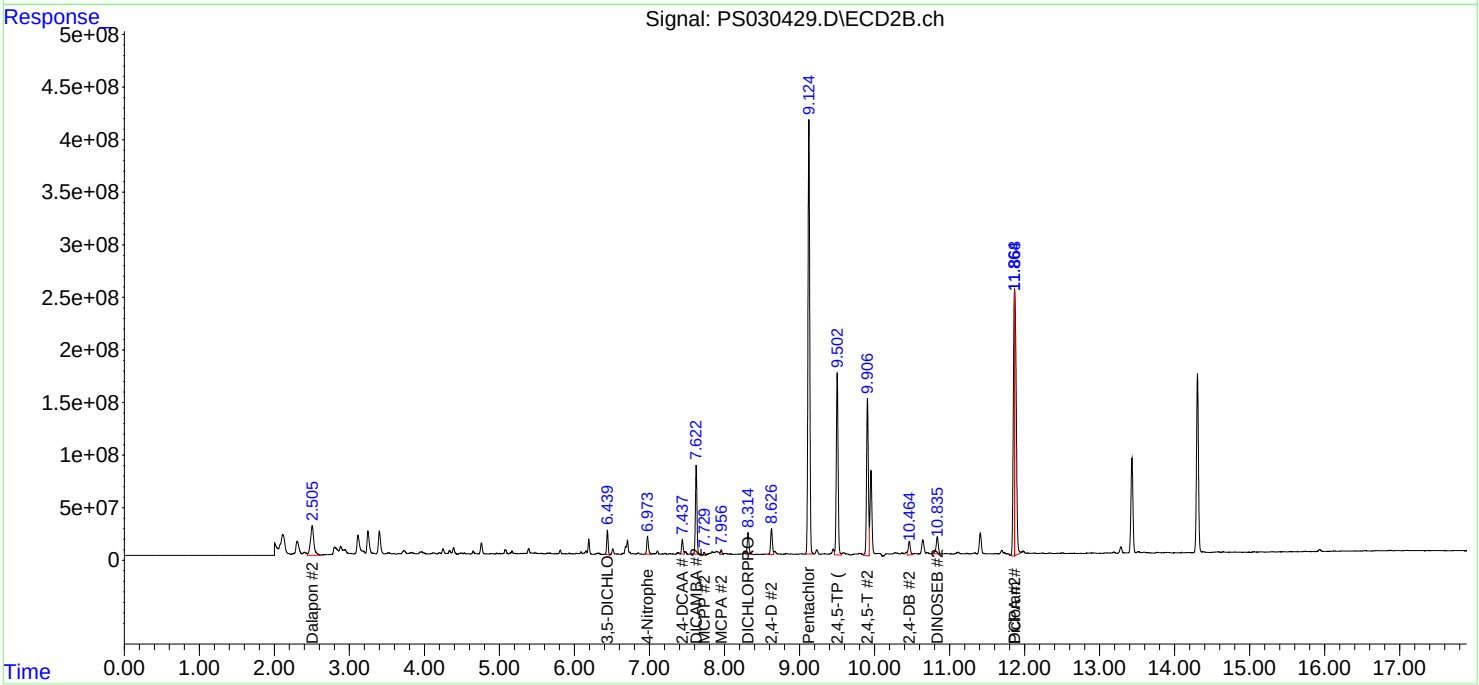
Instrument :
ECD_S
ClientSampleId :
TP-21MS

Manual Integrations APPROVED
Reviewed By :Abdul Mirza 05/30/2025
Supervised By :mohammad ahmed 05/30/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 29 23:27:16 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS051225.M
Quant Title : 8080.M
QLast Update : Mon May 12 14:29:24 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\PS052925\
Data File : PS030430.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 29 May 2025 14:44
Operator : AR\AJ
Sample : Q2100-03MSD
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
TP-21MSD

Manual Integrations APPROVED
Reviewed By :Abdul Mirza 05/30/2025
Supervised By :mohammad ahmed 05/30/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 29 23:27:29 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS051225.M
Quant Title : 8080.M
QLast Update : Mon May 12 14:29:24 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	6.925	7.440	834.1E6	210.0E6	292.880	262.395
	Target Compounds						
1) T	Dalapon	2.439	2.509	1209.4E6	909.7E6	246.047	447.915 #
2) T	3,5-DICHL...	6.131	6.442	1337.8E6	318.2E6	320.766	272.912
3) T	4-Nitroph...	6.716	6.976	608.6E6	278.8E6	294.617	267.040
5) T	DICAMBA	7.101	7.624	3289.4E6	1278.7E6	284.618	270.452m
6) T	MCPP	7.278	7.731	138.6E6	35342811	19.033	19.210
7) T	MCPA	7.420	7.959	245.6E6	56449011	23.660	21.401m
8) T	DICHLORPROP	7.780	8.316	878.5E6	312.7E6	300.726	264.721
9) T	2,4-D	8.000	8.628	1125.1E6	417.5E6	343.128	323.489
10) T	Pentachlo...	8.277	9.126	12525.1E6	7209.0E6	309.257	292.039
11) T	2,4,5-TP ...	8.839	9.504	4861.7E6	2984.1E6	300.180m	302.945
12) T	2,4,5-T	9.122	9.908	4925.7E6	2668.9E6	298.251	289.980
13) T	2,4-DB	9.681	10.465	972.8E6	268.3E6	372.755	270.344 #
14) T	DINOSEB	10.838	10.837	551.8E6	330.9E6	48.249	48.432m
15) T	Picloram	10.660	11.870	5040.4E6	3469.1E6	235.678	246.508m
16) T	DCPA	11.140	11.864	5688.6E6	2701.0E6	285.693m	199.918m#

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

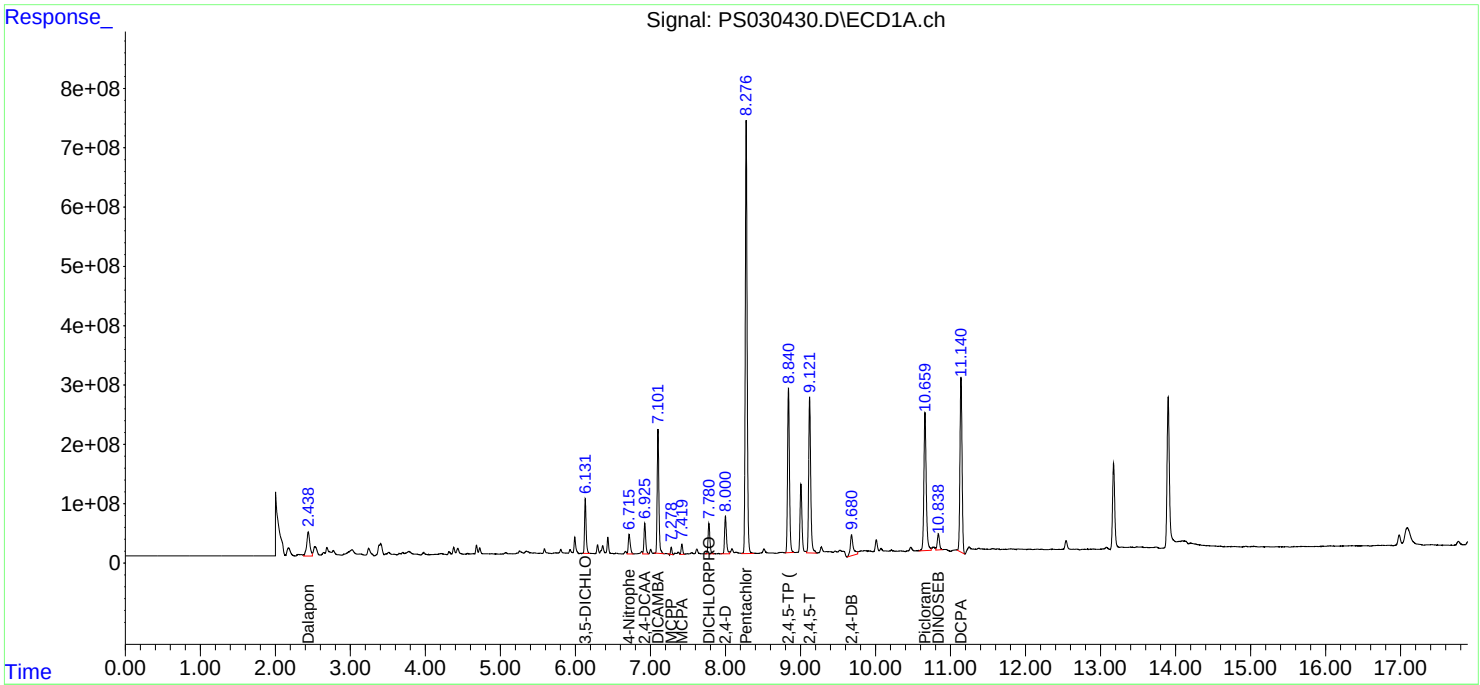
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS052925\
Data File : PS030430.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 29 May 2025 14:44
Operator : AR\AJ
Sample : Q2100-03MSD
Misc :
ALS Vial : 6 Sample Multiplier: 1

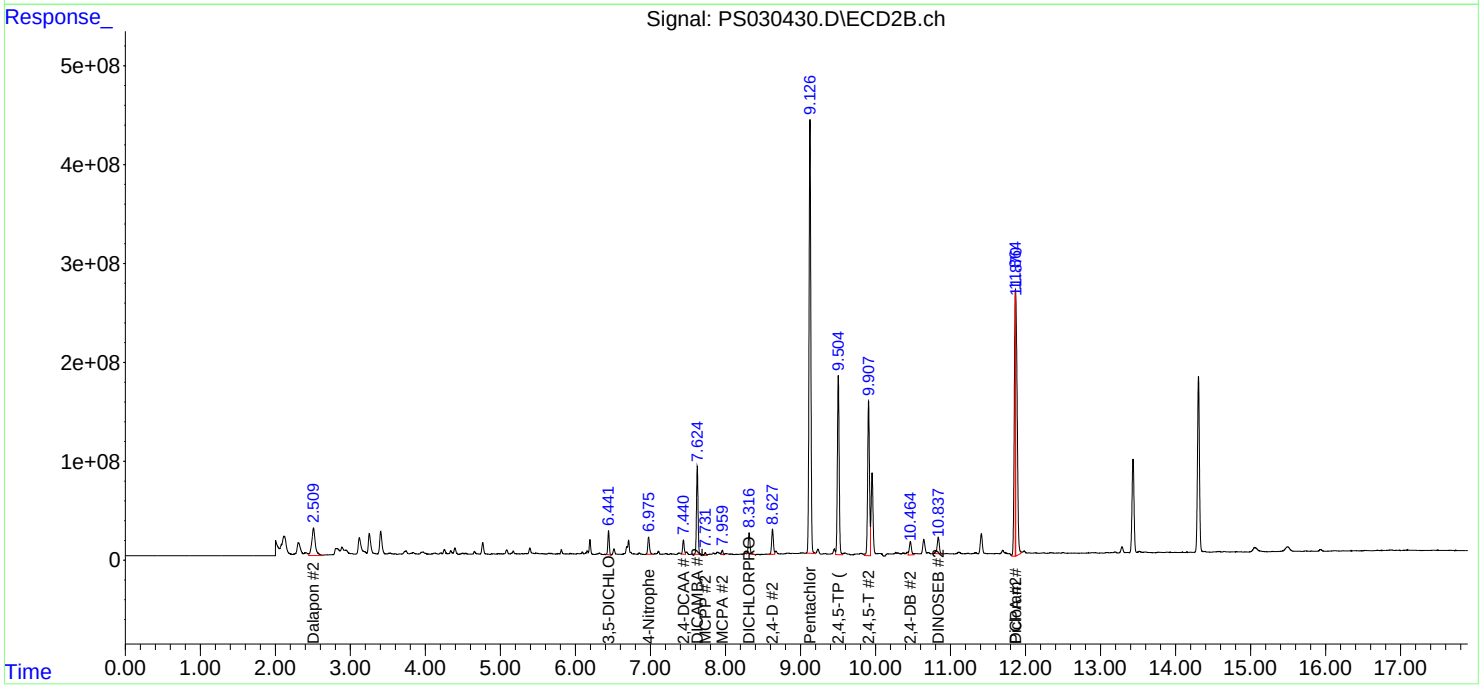
Instrument :
ECD_S
ClientSampleId :
TP-21MSD

Manual Integrations APPROVED
Reviewed By :Abdul Mirza 05/30/2025
Supervised By :mohammad ahmed 05/30/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 29 23:27:29 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS051225.M
Quant Title : 8080.M
QLast Update : Mon May 12 14:29:24 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:	PS051225	Instrument	ECD_s

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
HSTDICC200	PS030125.D	DCPA #2	Abdul	5/13/2025 9:33:45 AM	mohammad	5/14/2025 5:13:40	Peak Integrated by Software
HSTDICC200	PS030125.D	Picloram #2	Abdul	5/13/2025 9:33:45 AM	mohammad	5/14/2025 5:13:40	Peak Integrated by Software
HSTDICC500	PS030126.D	DCPA #2	Abdul	5/13/2025 9:33:50 AM	mohammad	5/14/2025 5:13:40	Peak Integrated by Software
HSTDICC500	PS030126.D	Picloram #2	Abdul	5/13/2025 9:33:50 AM	mohammad	5/14/2025 5:13:40	Peak Integrated by Software
HSTDICC750	PS030127.D	DCPA #2	Abdul	5/13/2025 9:33:54 AM	mohammad	5/14/2025 5:13:40	Peak Integrated by Software
HSTDICC750	PS030127.D	Picloram #2	Abdul	5/13/2025 9:33:54 AM	mohammad	5/14/2025 5:13:40	Peak Integrated by Software
HSTDICC1000	PS030128.D	DCPA #2	Abdul	5/13/2025 9:33:58 AM	mohammad	5/14/2025 5:13:40	Peak Integrated by Software
HSTDICC1000	PS030128.D	Picloram #2	Abdul	5/13/2025 9:33:58 AM	mohammad	5/14/2025 5:13:40	Peak Integrated by Software
HSTDICC1500	PS030129.D	DCPA #2	Abdul	5/13/2025 9:34:03 AM	mohammad	5/14/2025 5:13:40	Peak Integrated by Software
HSTDICC1500	PS030129.D	Picloram #2	Abdul	5/13/2025 9:34:03 AM	mohammad	5/14/2025 5:13:40	Peak Integrated by Software
HSTDICV750	PS030130.D	DCPA #2	Abdul	5/13/2025 9:34:08 AM	mohammad	5/14/2025 5:13:40	Peak Integrated by Software
HSTDICV750	PS030130.D	Picloram #2	Abdul	5/13/2025 9:34:08 AM	mohammad	5/14/2025 5:13:40	Peak Integrated by Software
HSTDCCC750	PS030132.D	DCPA #2	Abdul	5/13/2025 9:34:12 AM	mohammad	5/14/2025 5:13:40	Peak Integrated by Software

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Manual Integration Report

Sequence:	PS051225	Instrument	ECD_s

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
HSTDCCC750	PS030132.D	Picloram #2	Abdul	5/13/2025 9:34:12 AM	mohammad	5/14/2025 5:13:40	Peak Integrated by Software
HSTDCCC750	PS030138.D	DCPA #2	Abdul	5/13/2025 9:34:34 AM	mohammad	5/14/2025 5:13:40	Peak Integrated by Software
HSTDCCC750	PS030138.D	Picloram #2	Abdul	5/13/2025 9:34:34 AM	mohammad	5/14/2025 5:13:40	Peak Integrated by Software
HSTDCCC750	PS030146.D	DCPA #2	Abdul	5/13/2025 9:35:02 AM	mohammad	5/14/2025 5:13:40	Peak Integrated by Software
HSTDCCC750	PS030146.D	Picloram #2	Abdul	5/13/2025 9:35:02 AM	mohammad	5/14/2025 5:13:40	Peak Integrated by Software

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Manual Integration Report

Sequence:	ps052325	Instrument	ECD_s

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
I.BLK	PS030371.D	2,4-DCAA #2	Abdul	5/27/2025 11:51:13 AM	mohammad	5/28/2025 1:47:29	Peak Integrated by Software
HSTDCCC750	PS030372.D	DCPA #2	Abdul	5/27/2025 11:51:17 AM	mohammad	5/28/2025 1:47:29	Peak Integrated by Software
HSTDCCC750	PS030372.D	Picloram #2	Abdul	5/27/2025 11:51:17 AM	mohammad	5/28/2025 1:47:29	Peak Integrated by Software
HSTDCCC750	PS030380.D	2,4,5-TP (SILVEX)	Abdul	5/27/2025 11:51:32 AM	mohammad	5/28/2025 1:47:29	Peak Integrated by Software
HSTDCCC750	PS030380.D	2,4-DB #2	Abdul	5/27/2025 11:51:32 AM	mohammad	5/28/2025 1:47:29	Peak Integrated by Software
HSTDCCC750	PS030380.D	DCPA #2	Abdul	5/27/2025 11:51:32 AM	mohammad	5/28/2025 1:47:29	Peak Integrated by Software
HSTDCCC750	PS030380.D	Picloram #2	Abdul	5/27/2025 11:51:32 AM	mohammad	5/28/2025 1:47:29	Peak Integrated by Software
PB168137BS	PS030382.D	2,4-DB #2	Abdul	5/27/2025 11:53:28 AM	mohammad	5/28/2025 1:47:29	Peak Integrated by Software
PB168137BS	PS030382.D	DCPA #2	Abdul	5/27/2025 11:53:28 AM	mohammad	5/28/2025 1:47:29	Peak Integrated by Software
PB168137BS	PS030382.D	MCPP	Abdul	5/27/2025 11:53:28 AM	mohammad	5/28/2025 1:47:29	Peak Integrated by Software
PB168137BS	PS030382.D	Picloram #2	Abdul	5/27/2025 11:53:28 AM	mohammad	5/28/2025 1:47:29	Peak Integrated by Software
HSTDCCC750	PS030392.D	2,4,5-TP (SILVEX)	Abdul	5/27/2025 11:51:54 AM	mohammad	5/28/2025 1:47:29	Peak Integrated by Software
HSTDCCC750	PS030392.D	2,4-DB #2	Abdul	5/27/2025 11:51:54 AM	mohammad	5/28/2025 1:47:29	Peak Integrated by Software

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Manual Integration Report

Sequence:	ps052325	Instrument	ECD_s

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
HSTDCCC750	PS030392.D	DCPA #2	Abdul	5/27/2025 11:51:54 AM	mohammad	5/28/2025 1:47:29	Peak Integrated by Software
HSTDCCC750	PS030392.D	Picloram #2	Abdul	5/27/2025 11:51:54 AM	mohammad	5/28/2025 1:47:29	Peak Integrated by Software
Q2100-01	PS030398.D	2,4-DCAA	Abdul	5/27/2025 11:52:10 AM	mohammad	5/28/2025 1:47:29	Peak Integrated by Software
Q2100-01	PS030398.D	2,4-DCAA #2	Abdul	5/27/2025 11:52:10 AM	mohammad	5/28/2025 1:47:29	Peak Integrated by Software
HSTDCCC750	PS030404.D	2,4,5-TP (SILVEX)	Abdul	5/27/2025 11:53:37 AM	mohammad	5/28/2025 1:47:29	Peak Integrated by Software
HSTDCCC750	PS030404.D	DCPA #2	Abdul	5/27/2025 11:53:37 AM	mohammad	5/28/2025 1:47:29	Peak Integrated by Software
HSTDCCC750	PS030404.D	Picloram #2	Abdul	5/27/2025 11:53:37 AM	mohammad	5/28/2025 1:47:29	Peak Integrated by Software
HSTDCCC750	PS030409.D	2,4,5-TP (SILVEX)	Abdul	5/27/2025 11:52:57 AM	mohammad	5/28/2025 1:47:29	Peak Integrated by Software
HSTDCCC750	PS030409.D	DCPA #2	Abdul	5/27/2025 11:52:57 AM	mohammad	5/28/2025 1:47:29	Peak Integrated by Software
HSTDCCC750	PS030409.D	Picloram #2	Abdul	5/27/2025 11:52:57 AM	mohammad	5/28/2025 1:47:29	Peak Integrated by Software

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Manual Integration Report

Sequence:	ps052925	Instrument	ECD_s

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
I.BLK	PS030426.D	2,4-DCAA #2	Abdul	5/30/2025 7:50:38 AM	mohammad	5/30/2025 8:31:48	Peak Integrated by Software
HSTDCCC750	PS030427.D	2,4,5-TP (SILVEX)	Abdul	5/30/2025 7:50:43 AM	mohammad	5/30/2025 8:31:48	Peak Integrated by Software
HSTDCCC750	PS030427.D	DCPA	Abdul	5/30/2025 7:50:43 AM	mohammad	5/30/2025 8:31:48	Peak Integrated by Software
HSTDCCC750	PS030427.D	DCPA #2	Abdul	5/30/2025 7:50:43 AM	mohammad	5/30/2025 8:31:48	Peak Integrated by Software
HSTDCCC750	PS030427.D	DINOSEB #2	Abdul	5/30/2025 7:50:43 AM	mohammad	5/30/2025 8:31:48	Peak Integrated by Software
HSTDCCC750	PS030427.D	Picloram #2	Abdul	5/30/2025 7:50:43 AM	mohammad	5/30/2025 8:31:48	Peak Integrated by Software
Q2100-03MS	PS030429.D	DCPA #2	Abdul	5/30/2025 7:50:51 AM	mohammad	5/30/2025 8:31:48	Peak Integrated by Software
Q2100-03MS	PS030429.D	DICAMBA #2	Abdul	5/30/2025 7:50:51 AM	mohammad	5/30/2025 8:31:48	Peak Integrated by Software
Q2100-03MS	PS030429.D	DICHLORPROP #2	Abdul	5/30/2025 7:50:51 AM	mohammad	5/30/2025 8:31:48	Peak Integrated by Software
Q2100-03MS	PS030429.D	DINOSEB #2	Abdul	5/30/2025 7:50:51 AM	mohammad	5/30/2025 8:31:48	Peak Integrated by Software
Q2100-03MS	PS030429.D	MCPA #2	Abdul	5/30/2025 7:50:51 AM	mohammad	5/30/2025 8:31:48	Peak Integrated by Software
Q2100-03MS	PS030429.D	MCPP	Abdul	5/30/2025 7:50:51 AM	mohammad	5/30/2025 8:31:48	Peak Integrated by Software
Q2100-03MS	PS030429.D	Picloram #2	Abdul	5/30/2025 7:50:51 AM	mohammad	5/30/2025 8:31:48	Peak Integrated by Software

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Manual Integration Report

Sequence:	ps052925	Instrument	ECD_s

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q2100-03MSD	PS030430.D	2,4,5-TP (SILVEX)	Abdul	5/30/2025 7:50:56 AM	mohammad	5/30/2025 8:31:48	Peak Integrated by Software
Q2100-03MSD	PS030430.D	DCPA	Abdul	5/30/2025 7:50:56 AM	mohammad	5/30/2025 8:31:48	Peak Integrated by Software
Q2100-03MSD	PS030430.D	DCPA #2	Abdul	5/30/2025 7:50:56 AM	mohammad	5/30/2025 8:31:48	Peak Integrated by Software
Q2100-03MSD	PS030430.D	DICAMBA #2	Abdul	5/30/2025 7:50:56 AM	mohammad	5/30/2025 8:31:48	Peak Integrated by Software
Q2100-03MSD	PS030430.D	DINOSEB #2	Abdul	5/30/2025 7:50:56 AM	mohammad	5/30/2025 8:31:48	Peak Integrated by Software
Q2100-03MSD	PS030430.D	MCPA #2	Abdul	5/30/2025 7:50:56 AM	mohammad	5/30/2025 8:31:48	Peak Integrated by Software
Q2100-03MSD	PS030430.D	Picloram #2	Abdul	5/30/2025 7:50:56 AM	mohammad	5/30/2025 8:31:48	Peak Integrated by Software
I.BLK	PS030433.D	2,4-DCAA #2	Abdul	5/30/2025 7:51:08 AM	mohammad	5/30/2025 8:31:48	Peak Integrated by Software
HSTDCCC750	PS030434.D	2,4,5-TP (SILVEX)	Abdul	5/30/2025 7:51:13 AM	mohammad	5/30/2025 8:31:48	Peak Integrated by Software
HSTDCCC750	PS030434.D	DCPA #2	Abdul	5/30/2025 7:51:13 AM	mohammad	5/30/2025 8:31:48	Peak Integrated by Software
HSTDCCC750	PS030434.D	DINOSEB #2	Abdul	5/30/2025 7:51:13 AM	mohammad	5/30/2025 8:31:48	Peak Integrated by Software
HSTDCCC750	PS030434.D	Picloram #2	Abdul	5/30/2025 7:51:13 AM	mohammad	5/30/2025 8:31:48	Peak Integrated by Software

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Manual Integration Report

Sequence:	ps052925	Instrument	ECD_s

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

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Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QCBatch ID # PS051225

Review By	Abdul	Review On	5/13/2025 9:35:21 AM		
Supervise By	mohammad	Supervise On	5/14/2025 5:13:40 AM		
SubDirectory	PS051225	HP Acquire Method		HP Processing Method	ps051225 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	PS030123.D	12 May 2025 11:42	AR\AJ	Ok
2	I.BLK	PS030124.D	12 May 2025 12:06	AR\AJ	Ok
3	HSTDICC200	PS030125.D	12 May 2025 12:30	AR\AJ	Ok,M
4	HSTDICC500	PS030126.D	12 May 2025 12:54	AR\AJ	Ok,M
5	HSTDICC750	PS030127.D	12 May 2025 13:18	AR\AJ	Ok,M
6	HSTDICC1000	PS030128.D	12 May 2025 13:42	AR\AJ	Ok,M
7	HSTDICC1500	PS030129.D	12 May 2025 14:06	AR\AJ	Ok,M
8	HSTDICV750	PS030130.D	12 May 2025 14:30	AR\AJ	Ok,M
9	I.BLK	PS030131.D	12 May 2025 14:54	AR\AJ	Ok
10	HSTDCCC750	PS030132.D	12 May 2025 15:18	AR\AJ	Ok,M
11	Q1972-01	PS030133.D	12 May 2025 15:42	AR\AJ	ReRun
12	Q1972-01RE	PS030134.D	12 May 2025 16:58	AR\AJ	Confirms
13	Q1972-05	PS030135.D	12 May 2025 17:46	AR\AJ	Ok,M
14	Q1972-05RE	PS030136.D	12 May 2025 18:10	AR\AJ	Not Ok
15	I.BLK	PS030137.D	12 May 2025 18:34	AR\AJ	Ok
16	HSTDCCC750	PS030138.D	12 May 2025 18:58	AR\AJ	Ok,M
17	PB167968BL	PS030139.D	12 May 2025 19:46	AR\AJ	Ok,M
18	PB167968BS	PS030140.D	12 May 2025 20:10	AR\AJ	Ok,M
19	PB167851TB	PS030141.D	12 May 2025 20:34	AR\AJ	Ok
20	Q1956-05	PS030142.D	12 May 2025 20:59	AR\AJ	Ok,M
21	Q1956-05MS	PS030143.D	12 May 2025 21:23	AR\AJ	Ok,M

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Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QCBatch ID # PS051225

Review By	Abdul	Review On	5/13/2025 9:35:21 AM		
Supervise By	mohammad	Supervise On	5/14/2025 5:13:40 AM		
SubDirectory	PS051225	HP Acquire Method		HP Processing Method	ps051225 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	Q1956-05MSD	PS030144.D	12 May 2025 21:47	AR\AJ	Ok,M
23	I.BLK	PS030145.D	12 May 2025 22:11	AR\AJ	Ok
24	HSTDCCC750	PS030146.D	12 May 2025 22:35	AR\AJ	Ok,M

M : Manual Integration

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Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QCBatch ID # PS052325

Review By	yogesh	Review On	5/23/2025 12:05:59 PM		
Supervise By	mohammad	Supervise On	5/28/2025 1:47:29 AM		
SubDirectory	PS052325	HP Acquire Method		HP Processing Method	ps051225 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	PS030370.D	23 May 2025 09:07	AR\AJ	Ok
2	I.BLK	PS030371.D	23 May 2025 10:38	AR\AJ	Ok,M
3	HSTDCCC750	PS030372.D	23 May 2025 11:02	AR\AJ	Ok,M
4	PB168133BL	PS030373.D	23 May 2025 11:27	AR\AJ	Ok,M
5	PB168133BS	PS030374.D	23 May 2025 11:51	AR\AJ	Ok,M
6	PB168133BSD	PS030375.D	23 May 2025 12:15	AR\AJ	Ok,M
7	Q2088-01	PS030376.D	23 May 2025 12:39	AR\AJ	Ok
8	Q2093-14	PS030377.D	23 May 2025 13:03	AR\AJ	Ok
9	Q2102-03	PS030378.D	23 May 2025 13:27	AR\AJ	Ok
10	I.BLK	PS030379.D	23 May 2025 13:51	AR\AJ	Ok
11	HSTDCCC750	PS030380.D	23 May 2025 14:15	AR\AJ	Ok,M
12	PB168137BL	PS030381.D	23 May 2025 16:28	AR\AJ	Ok
13	PB168137BS	PS030382.D	23 May 2025 16:52	AR\AJ	Ok,M
14	Q2092-01	PS030383.D	23 May 2025 17:16	AR\AJ	Ok,M
15	Q2093-01	PS030384.D	23 May 2025 17:40	AR\AJ	Ok
16	Q2095-01	PS030385.D	23 May 2025 18:04	AR\AJ	Ok,M
17	Q2095-05	PS030386.D	23 May 2025 18:28	AR\AJ	Ok,M
18	Q2097-01	PS030387.D	23 May 2025 18:52	AR\AJ	Ok
19	Q2097-03	PS030388.D	23 May 2025 19:16	AR\AJ	Ok
20	Q2097-05	PS030389.D	23 May 2025 19:40	AR\AJ	Ok,M
21	Q2097-07	PS030390.D	23 May 2025 20:04	AR\AJ	Ok,M

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Fax : 908 789 8922

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QCBatch ID # PS052325

Review By	yogesh	Review On	5/23/2025 12:05:59 PM		
Supervise By	mohammad	Supervise On	5/28/2025 1:47:29 AM		
SubDirectory	PS052325	HP Acquire Method		HP Processing Method	ps051225 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	I.BLK	PS030391.D	23 May 2025 20:28	AR\AJ	Ok
23	HSTDCCC750	PS030392.D	23 May 2025 20:52	AR\AJ	Ok,M
24	Q2097-09	PS030393.D	23 May 2025 21:40	AR\AJ	Ok
25	Q2097-11	PS030394.D	23 May 2025 22:04	AR\AJ	Ok,M
26	Q2097-13	PS030395.D	23 May 2025 22:29	AR\AJ	Ok
27	Q2097-15	PS030396.D	23 May 2025 22:53	AR\AJ	Ok,M
28	Q2097-17	PS030397.D	23 May 2025 23:17	AR\AJ	Ok,M
29	Q2100-01	PS030398.D	23 May 2025 23:41	AR\AJ	Ok,M
30	Q2100-02	PS030399.D	24 May 2025 00:05	AR\AJ	Ok
31	Q2100-03	PS030400.D	24 May 2025 00:29	AR\AJ	Ok
32	Q2100-03MS	PS030401.D	24 May 2025 00:53	AR\AJ	Not Ok
33	Q2100-03MSD	PS030402.D	24 May 2025 01:17	AR\AJ	Not Ok
34	I.BLK	PS030403.D	24 May 2025 01:41	AR\AJ	Ok
35	HSTDCCC750	PS030404.D	24 May 2025 02:05	AR\AJ	Ok,M
36	Q2100-04	PS030405.D	24 May 2025 02:53	AR\AJ	Ok
37	Q2101-01	PS030406.D	24 May 2025 03:17	AR\AJ	Ok,M
38	Q2109-01	PS030407.D	24 May 2025 03:42	AR\AJ	Ok,M
39	I.BLK	PS030408.D	24 May 2025 04:06	AR\AJ	Ok
40	HSTDCCC750	PS030409.D	24 May 2025 04:30	AR\AJ	Ok,M

M : Manual Integration

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Fax : 908 789 8922

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QCBatch ID # PS052925

Review By	Abdul	Review On	5/30/2025 7:51:34 AM		
Supervise By	mohammad	Supervise On	5/30/2025 8:31:48 AM		
SubDirectory	PS052925	HP Acquire Method		HP Processing Method	ps051225 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	PS030425.D	29 May 2025 08:41	AR\AJ	Ok
2	I.BLK	PS030426.D	29 May 2025 09:05	AR\AJ	Ok,M
3	HSTDCCC750	PS030427.D	29 May 2025 09:29	AR\AJ	Ok,M
4	PB168172BS	PS030428.D	29 May 2025 13:46	AR\AJ	Ok,M
5	Q2100-03MS	PS030429.D	29 May 2025 14:19	AR\AJ	Ok,M
6	Q2100-03MSD	PS030430.D	29 May 2025 14:44	AR\AJ	Ok,M
7	Q2127-11MS	PS030431.D	29 May 2025 15:25	AR\AJ	Ok,M
8	Q2127-11MSD	PS030432.D	29 May 2025 15:49	AR\AJ	Ok,M
9	I.BLK	PS030433.D	29 May 2025 16:13	AR\AJ	Ok,M
10	HSTDCCC750	PS030434.D	29 May 2025 16:37	AR\AJ	Ok,M

M : Manual Integration

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Fax : 908 789 8922

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QCBatch ID # PS051225

Review By	Abdul	Review On	5/13/2025 9:35:21 AM		
Supervise By	mohammad	Supervise On	5/14/2025 5:13:40 AM		
SubDirectory	PS051225	HP Acquire Method		HP Processing Method	ps051225 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	PS030123.D	12 May 2025 11:42		AR\AJ	Ok
2	I.BLK	I.BLK	PS030124.D	12 May 2025 12:06		AR\AJ	Ok
3	HSTDICC200	HSTDICC200	PS030125.D	12 May 2025 12:30		AR\AJ	Ok,M
4	HSTDICC500	HSTDICC500	PS030126.D	12 May 2025 12:54		AR\AJ	Ok,M
5	HSTDICC750	HSTDICC750	PS030127.D	12 May 2025 13:18		AR\AJ	Ok,M
6	HSTDICC1000	HSTDICC1000	PS030128.D	12 May 2025 13:42		AR\AJ	Ok,M
7	HSTDICC1500	HSTDICC1500	PS030129.D	12 May 2025 14:06		AR\AJ	Ok,M
8	HSTDICV750	ICVPS051225	PS030130.D	12 May 2025 14:30		AR\AJ	Ok,M
9	I.BLK	I.BLK	PS030131.D	12 May 2025 14:54		AR\AJ	Ok
10	HSTDCCC750	HSTDCCC750	PS030132.D	12 May 2025 15:18		AR\AJ	Ok,M
11	Q1972-01	SUB-WC	PS030133.D	12 May 2025 15:42	Surrogate high in both column	AR\AJ	ReRun
12	Q1972-01RE	SUB-WCRE	PS030134.D	12 May 2025 16:58	Surrogate high in both column	AR\AJ	Confirms
13	Q1972-05	WC-B-10	PS030135.D	12 May 2025 17:46		AR\AJ	Ok,M
14	Q1972-05RE	WC-B-10RE	PS030136.D	12 May 2025 18:10	not needed	AR\AJ	Not Ok
15	I.BLK	I.BLK	PS030137.D	12 May 2025 18:34		AR\AJ	Ok
16	HSTDCCC750	HSTDCCC750	PS030138.D	12 May 2025 18:58		AR\AJ	Ok,M
17	PB167968BL	PB167968BL	PS030139.D	12 May 2025 19:46		AR\AJ	Ok,M
18	PB167968BS	PB167968BS	PS030140.D	12 May 2025 20:10		AR\AJ	Ok,M

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Fax : 908 789 8922

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QCBatch ID # PS051225

Review By	Abdul	Review On	5/13/2025 9:35:21 AM		
Supervise By	mohammad	Supervise On	5/14/2025 5:13:40 AM		
SubDirectory	PS051225	HP Acquire Method		HP Processing Method	ps051225 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	PB167851TB	PB167851TB	PS030141.D	12 May 2025 20:34		AR\AJ	Ok
20	Q1956-05	COMP1	PS030142.D	12 May 2025 20:59		AR\AJ	Ok,M
21	Q1956-05MS	COMP1MS	PS030143.D	12 May 2025 21:23	Comp#1,6,14 recovery fail	AR\AJ	Ok,M
22	Q1956-05MSD	COMP1MSD	PS030144.D	12 May 2025 21:47	Comp#1,6,14 recovery fail	AR\AJ	Ok,M
23	I.BLK	I.BLK	PS030145.D	12 May 2025 22:11		AR\AJ	Ok
24	HSTDCCC750	HSTDCCC750	PS030146.D	12 May 2025 22:35		AR\AJ	Ok,M

M : Manual Integration

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Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QCBatch ID # PS052325

Review By	yogesh	Review On	5/23/2025 12:05:59 PM		
Supervise By	mohammad	Supervise On	5/28/2025 1:47:29 AM		
SubDirectory	PS052325	HP Acquire Method		HP Processing Method	ps051225 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	PS030370.D	23 May 2025 09:07		AR\AJ	Ok
2	I.BLK	I.BLK	PS030371.D	23 May 2025 10:38		AR\AJ	Ok,M
3	HSTDCCC750	HSTDCCC750	PS030372.D	23 May 2025 11:02		AR\AJ	Ok,M
4	PB168133BL	PB168133BL	PS030373.D	23 May 2025 11:27		AR\AJ	Ok,M
5	PB168133BS	PB168133BS	PS030374.D	23 May 2025 11:51		AR\AJ	Ok,M
6	PB168133BSD	PB168133BSD	PS030375.D	23 May 2025 12:15		AR\AJ	Ok,M
7	Q2088-01	252820	PS030376.D	23 May 2025 12:39		AR\AJ	Ok
8	Q2093-14	WATER-COMP	PS030377.D	23 May 2025 13:03		AR\AJ	Ok
9	Q2102-03	LAW-25-0078	PS030378.D	23 May 2025 13:27		AR\AJ	Ok
10	I.BLK	I.BLK	PS030379.D	23 May 2025 13:51		AR\AJ	Ok
11	HSTDCCC750	HSTDCCC750	PS030380.D	23 May 2025 14:15		AR\AJ	Ok,M
12	PB168137BL	PB168137BL	PS030381.D	23 May 2025 16:28		AR\AJ	Ok
13	PB168137BS	PB168137BS	PS030382.D	23 May 2025 16:52		AR\AJ	Ok,M
14	Q2092-01	VNJ-202	PS030383.D	23 May 2025 17:16		AR\AJ	Ok,M
15	Q2093-01	SOIL-DRUM	PS030384.D	23 May 2025 17:40		AR\AJ	Ok
16	Q2095-01	WCS-TP1	PS030385.D	23 May 2025 18:04		AR\AJ	Ok,M
17	Q2095-05	WCS-TP2	PS030386.D	23 May 2025 18:28		AR\AJ	Ok,M
18	Q2097-01	ETGI-357	PS030387.D	23 May 2025 18:52		AR\AJ	Ok

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Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QCBatch ID # PS052325

Review By	yogesh	Review On	5/23/2025 12:05:59 PM		
Supervise By	mohammad	Supervise On	5/28/2025 1:47:29 AM		
SubDirectory	PS052325	HP Acquire Method		HP Processing Method	ps051225 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	Q2097-03	RBR200044	PS030388.D	23 May 2025 19:16		AR\AJ	Ok
20	Q2097-05	RBR251675	PS030389.D	23 May 2025 19:40		AR\AJ	Ok,M
21	Q2097-07	VNJ-244	PS030390.D	23 May 2025 20:04		AR\AJ	Ok,M
22	I.BLK	I.BLK	PS030391.D	23 May 2025 20:28		AR\AJ	Ok
23	HSTDCCC750	HSTDCCC750	PS030392.D	23 May 2025 20:52		AR\AJ	Ok,M
24	Q2097-09	ETGI-290	PS030393.D	23 May 2025 21:40		AR\AJ	Ok
25	Q2097-11	RT3419	PS030394.D	23 May 2025 22:04		AR\AJ	Ok,M
26	Q2097-13	RBR251372	PS030395.D	23 May 2025 22:29		AR\AJ	Ok
27	Q2097-15	72-12013	PS030396.D	23 May 2025 22:53		AR\AJ	Ok,M
28	Q2097-17	RT-3888	PS030397.D	23 May 2025 23:17		AR\AJ	Ok,M
29	Q2100-01	TP-16	PS030398.D	23 May 2025 23:41		AR\AJ	Ok,M
30	Q2100-02	TP-22	PS030399.D	24 May 2025 00:05		AR\AJ	Ok
31	Q2100-03	TP-21	PS030400.D	24 May 2025 00:29		AR\AJ	Ok
32	Q2100-03MS	TP-21MS	PS030401.D	24 May 2025 00:53	some compound recovery fail	AR\AJ	Not Ok
33	Q2100-03MSD	TP-21MSD	PS030402.D	24 May 2025 01:17	recovery fail for some compounds, RPD fail for most of compunds	AR\AJ	Not Ok
34	I.BLK	I.BLK	PS030403.D	24 May 2025 01:41		AR\AJ	Ok
35	HSTDCCC750	HSTDCCC750	PS030404.D	24 May 2025 02:05		AR\AJ	Ok,M
36	Q2100-04	TP-45	PS030405.D	24 May 2025 02:53		AR\AJ	Ok

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Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QCBatch ID # PS052325

Review By	yogesh	Review On	5/23/2025 12:05:59 PM		
Supervise By	mohammad	Supervise On	5/28/2025 1:47:29 AM		
SubDirectory	PS052325	HP Acquire Method		HP Processing Method	ps051225 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	

37	Q2101-01	TP-1-MHE	PS030406.D	24 May 2025 03:17		AR\AJ	Ok,M
38	Q2109-01	TP-02-MHF	PS030407.D	24 May 2025 03:42		AR\AJ	Ok,M
39	I.BLK	I.BLK	PS030408.D	24 May 2025 04:06		AR\AJ	Ok
40	HSTDCCC750	HSTDCCC750	PS030409.D	24 May 2025 04:30		AR\AJ	Ok,M

M : Manual Integration

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Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QCBatch ID # PS052925

Review By	Abdul	Review On	5/30/2025 7:51:34 AM		
Supervise By	mohammad	Supervise On	5/30/2025 8:31:48 AM		
SubDirectory	PS052925	HP Acquire Method		HP Processing Method	ps051225 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	PS030425.D	29 May 2025 08:41		AR\AJ	Ok
2	I.BLK	I.BLK	PS030426.D	29 May 2025 09:05		AR\AJ	Ok,M
3	HSTDCCC750	HSTDCCC750	PS030427.D	29 May 2025 09:29		AR\AJ	Ok,M
4	PB168172BS	PB168172BS	PS030428.D	29 May 2025 13:46		AR\AJ	Ok,M
5	Q2100-03MS	TP-21MS	PS030429.D	29 May 2025 14:19	Some compound recovery fail	AR\AJ	Ok,M
6	Q2100-03MSD	TP-21MSD	PS030430.D	29 May 2025 14:44	Some compound recovery fail	AR\AJ	Ok,M
7	Q2127-11MS	COMP-2MS	PS030431.D	29 May 2025 15:25	Some compound recovery fail	AR\AJ	Ok,M
8	Q2127-11MSD	COMP-2MSD	PS030432.D	29 May 2025 15:49	Some compound recovery fail	AR\AJ	Ok,M
9	I.BLK	I.BLK	PS030433.D	29 May 2025 16:13		AR\AJ	Ok,M
10	HSTDCCC750	HSTDCCC750	PS030434.D	29 May 2025 16:37		AR\AJ	Ok,M

M : Manual Integration

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PB168137

SOP ID:	M8151A-Herbicide-22				
Clean Up SOP #:	N/A			**Extraction Start Date :**	05/23/2025
Matrix :	Solid			**Extraction Start Time :**	08:25
Weigh By:	EH	**Extraction By:**	RJ	**Extraction End Date :**	05/23/2025
Balance check:	RJ	**Filter By:**	RJ	**Extraction End Time :**	16:00
Balance ID:	EX-SC-2	**pH Meter ID:**	N/A	**Concentration By:**	EH
pH Strip Lot#:	E3880	**Hood ID:**	3,4,5,7	**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	PP24484
Surrogate	1.0ML	5000 PPB	PP24552
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
Acidified Na2SO4	N/A	EP2576
Sand	N/A	E2865
HCL	N/A	M6151
DI WATER	N/A	N/A
37% KOH	N/A	EP2594
Methylene Chloride	N/A	E3939
1:3 SULPHURIC ACID	N/A	EP2598
Ether	N/A	E3881
ISO OCTANE	N/A	E3554
METHANOL	N/A	V14622
Diazomethane	N/A	EP2608
Hexane	N/A	E3938
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

pH adjusted with HCL <2 for soil Extraction, PH adjusted with 1:3 H2SO4 <2 after Hydrolysis, Derivatization procedure is completed and samples are ready to Analyze,40ML Vial Lot # 03-40 BTS723.

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
5/23/25	RS (Ext lab)	Y.P. Pest/PCB.
16:05	**Preparation Group**	**Analysis Group**

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PrepBatch ID : PB168137

Analytical Method: M8151A-Herbicide-22

Concentration Date: 05/23/2025

Sample ID	Client Sample ID	Test	(g) mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB168137BL	HBLK137	Herbicide	30.01	N/A	ritesh	Evelyn	10			U2-1
PB168137BS	HLCS137	Herbicide	30.02	N/A	ritesh	Evelyn	10			2
Q2092-01	VNJ-202	Herbicide	30.05	N/A	ritesh	Evelyn	10	E		3
Q2093-01	SOIL-DRUM	Herbicide	30.04	N/A	ritesh	Evelyn	10	E		4
Q2095-01	WCS-TP1	Herbicide	30.08	N/A	ritesh	Evelyn	10	E		5
Q2095-05	WCS-TP2	Herbicide	30.03	N/A	ritesh	Evelyn	10	E		6
Q2097-01	ETGI-357	Herbicide	30.04	N/A	ritesh	Evelyn	10	E		U3-1
Q2097-03	RBR200044	Herbicide	30.02	N/A	ritesh	Evelyn	10	E		2
Q2097-05	RBR251675	Herbicide	30.09	N/A	ritesh	Evelyn	10	E		3
Q2097-07	VNJ-244	Herbicide	30.07	N/A	ritesh	Evelyn	10	E		4
Q2097-09	ETGI-290	Herbicide	30.03	N/A	ritesh	Evelyn	10	E		5
Q2097-11	RT3419	Herbicide	30.06	N/A	ritesh	Evelyn	10	E		6
Q2097-13	RBR251372	Herbicide	30.04	N/A	ritesh	Evelyn	10	E		U6-1
Q2097-15	72-12013	Herbicide	30.01	N/A	ritesh	Evelyn	10	E		2
Q2097-17	RT-3888	Herbicide	30.05	N/A	ritesh	Evelyn	10	E		3
Q2100-01	TP-16	Herbicide	30.07	N/A	ritesh	Evelyn	10	E		4
Q2100-02	TP-22	Herbicide	30.02	N/A	ritesh	Evelyn	10	E		5
Q2100-03	TP-21	Herbicide	30.06	N/A	ritesh	Evelyn	10	E		6
Q2100-03MS	TP-21MS	Herbicide	30.01	N/A	ritesh	Evelyn	10	E		U1-1
Q2100-03MSD	TP-21MSD	Herbicide	30.08	N/A	ritesh	Evelyn	10	E		2
Q2100-04	TP-45	Herbicide	30.03	N/A	ritesh	Evelyn	10	E		3
Q2101-01	TP-1-MHE	Herbicide	30.04	N/A	ritesh	Evelyn	10	C		4
Q2109-01	TP-02-MHF	Herbicide	30.08	N/A	ritesh	Evelyn	10	E		5

RS 5/23

* **Extracts relinquished on the same date as received.**

Q2100 8137 8.25

WORKLIST(Hardcopy Internal Chain)

WorkList Name : Q2100H **WorkList ID :** 189722 **Department :** Extraction **Date :** 05-23-2025 08:20:02

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2092-01	VNJ-202	Solid	Herbicide	Cool 4 deg C	PSEG03	L41	05/20/2025	8151A
Q2093-01	SOIL-DRUM	Solid	Herbicide	Cool 4 deg C	PSEG03	L41	05/20/2025	8151A
Q2095-01	WCS-TP1	Solid	Herbicide	Cool 4 deg C	PSEG03	L41	05/20/2025	8151A
Q2095-05	WCS-TP2	Solid	Herbicide	Cool 4 deg C	PSEG03	L41	05/20/2025	8151A
Q2097-01	ETGI-357	Solid	Herbicide	Cool 4 deg C	PSEG03	L41	05/20/2025	8151A
Q2097-03	RBR200044	Solid	Herbicide	Cool 4 deg C	PSEG03	L41	05/20/2025	8151A
Q2097-05	RBR251675	Solid	Herbicide	Cool 4 deg C	PSEG03	L41	05/20/2025	8151A
Q2097-07	VNJ-244	Solid	Herbicide	Cool 4 deg C	PSEG03	L41	05/20/2025	8151A
Q2097-09	ETGI-290	Solid	Herbicide	Cool 4 deg C	PSEG03	L41	05/20/2025	8151A
Q2097-11	RT3419	Solid	Herbicide	Cool 4 deg C	PSEG03	L41	05/20/2025	8151A
Q2097-13	RBR251372	Solid	Herbicide	Cool 4 deg C	PSEG03	L41	05/20/2025	8151A
Q2097-15	72-12013	Solid	Herbicide	Cool 4 deg C	PSEG03	L41	05/20/2025	8151A
Q2097-17	RT-3888	Solid	Herbicide	Cool 4 deg C	PSEG03	L41	05/20/2025	8151A
Q2100-01	TP-16	Solid	Herbicide	Cool 4 deg C	CAMP02	L41	05/20/2025	8151A
Q2100-02	TP-22	Solid	Herbicide	Cool 4 deg C	CAMP02	L41	05/20/2025	8151A
Q2100-03	TP-21	Solid	Herbicide	Cool 4 deg C	CAMP02	L41	05/20/2025	8151A
Q2100-04	TP-45	Solid	Herbicide	Cool 4 deg C	CAMP02	L41	05/20/2025	8151A
Q2101-01	TP-1-MHE	Solid	Herbicide	Cool 4 deg C	PSEG03	L41	05/19/2025	8151A
Q2109-01	TP-02-MHF	Solid	Herbicide	Cool 4 deg C	PSEG03	L31	05/20/2025	8151A

710 of 879

Date/Time 05/23/25 8:20
Raw Sample Received by: RJ (EH-LCMS)
Raw Sample Relinquished by:

Date/Time 05/23/25 8:50
Raw Sample Received by:
Raw Sample Relinquished by: RJ (EH-LCMS)

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LAB CHRONICLE

OrderID:	Q2100	**OrderDate:**	5/20/2025 3:22:00 PM
Client:	CDM Smith	**Project:**	South River WM Replacement
Contact:	Marcie Ann Encinas	**Location:**	L41,VOA Ref. #2 Soil

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2100-01	**TP-16**	**SOIL**			**05/19/25**			**05/20/25**
			Diesel Range Organics	8015D		05/23/25	05/23/25	
			Gasoline Range Organics	8015D			05/21/25	
			Herbicide	8151A		05/23/25	05/23/25	
			PCB	8082A		05/22/25	05/22/25	
			Pesticide-TCL	8081B		05/22/25	05/22/25	
Q2100-02	**TP-22**	**SOIL**			**05/19/25**			**05/20/25**
			Diesel Range Organics	8015D		05/23/25	05/23/25	
			Gasoline Range Organics	8015D			05/21/25	
			Herbicide	8151A		05/23/25	05/24/25	
			PCB	8082A		05/22/25	05/22/25	
			Pesticide-TCL	8081B		05/22/25	05/22/25	
Q2100-03	**TP-21**	**SOIL**			**05/20/25**			**05/20/25**
			Diesel Range Organics	8015D		05/23/25	05/23/25	
			Gasoline Range Organics	8015D			05/21/25	
			Herbicide	8151A		05/23/25	05/24/25	
			PCB	8082A		05/22/25	05/22/25	
			Pesticide-TCL	8081B		05/22/25	05/22/25	
Q2100-04	**TP-45**	**SOIL**			**05/20/25**			**05/20/25**
			Diesel Range Organics	8015D		05/23/25	05/23/25	
			Gasoline Range Organics	8015D			05/21/25	
			Herbicide	8151A		05/23/25	05/24/25	
			PCB	8082A		05/22/25	05/22/25	
			Pesticide-TCL	8081B		05/22/25	05/22/25	

SAMPLE DATA

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

Report of Analysis

Client:	CDM Smith	Date Collected:	05/19/25
Project:	South River WM Replacement	Date Received:	05/20/25
Client Sample ID:	TP-16	SDG No.:	Q2100
Lab Sample ID:	Q2100-01	Matrix:	SOIL
Analytical Method:	8015D DRO	% Solid:	88.4 Decanted:
Sample Wt/Vol:	30.05 Units: g	Final Vol:	1 mL
Soil Aliquot Vol:	uL	Test:	Diesel Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG015899.D	1	05/23/25 10:10	05/23/25 14:56	PB168150

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	1410	J	191	1880	ug/kg
SURROGATES						
16416-32-3	Tetracosane-d50	10.8		37 - 130	54%	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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284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	CDM Smith	Date Collected:	05/19/25
Project:	South River WM Replacement	Date Received:	05/20/25
Client Sample ID:	TP-22	SDG No.:	Q2100
Lab Sample ID:	Q2100-02	Matrix:	SOIL
Analytical Method:	8015D DRO	% Solid:	84 Decanted:
Sample Wt/Vol:	30.09 Units: g	Final Vol:	1 mL
Soil Aliquot Vol:	uL	Test:	Diesel Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG015900.D	1	05/23/25 10:10	05/23/25 15:26	PB168150

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	22500		201	1980	ug/kg
SURROGATES						
16416-32-3	Tetracosane-d50	11.1		37 - 130	56%	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:	CDM Smith	Date Collected:	05/20/25
Project:	South River WM Replacement	Date Received:	05/20/25
Client Sample ID:	TP-21	SDG No.:	Q2100
Lab Sample ID:	Q2100-03	Matrix:	SOIL
Analytical Method:	8015D DRO	% Solid:	78.2 Decanted:
Sample Wt/Vol:	30.04 Units: g	Final Vol:	1 mL
Soil Aliquot Vol:	uL	Test:	Diesel Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG015901.D	1	05/23/25 10:10	05/23/25 15:55	PB168150

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	13100		216	2130	ug/kg
SURROGATES						
16416-32-3	Tetracosane-d50	13.2		37 - 130	66%	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:	CDM Smith	Date Collected:	05/20/25
Project:	South River WM Replacement	Date Received:	05/20/25
Client Sample ID:	TP-45	SDG No.:	Q2100
Lab Sample ID:	Q2100-04	Matrix:	SOIL
Analytical Method:	8015D DRO	% Solid:	76.2 Decanted:
Sample Wt/Vol:	30.02 Units: g	Final Vol:	1 mL
Soil Aliquot Vol:	uL	Test:	Diesel Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG015902.D	1	05/23/25 10:10	05/23/25 16:24	PB168150

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	1950	J	222	2190	ug/kg
SURROGATES						
16416-32-3	Tetracosane-d50	14.7		37 - 130	73%	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

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SOIL DIESEL RANGE ORGANICS SURROGATE RECOVERY

Lab Name: Chemtech Client: CDM Smith

Lab Code: CHEM Case No.: Q2100 SAS No.: Q2100 SDG No.: Q2100

EPA SAMPLE NO.	S1 TETRACOSANE-d50	S2	S3	S4	TOT OUT
PIBLK-FG015894.D	90				0
PIBLK-FG015906.D	92				0
PB168150BL	83				0
PB168150BS	100				0
TP-16	54				0
TP-22	56				0
TP-21	66				0
TP-45	73				0
TP-45MS	64				0
TP-45MSD	63				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 DIESEL RANGE ORGANICS MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** CDM Smith

Lab Code: CHEM **Cas No:** Q2100 **SAS No :** Q2100 **SDG No:** Q2100

Client SampleID : TP-45MS **Datafile:** FG015903.D

COMPOUND	SPIKE ADDED ug/kg	SAMPLE CONCENTRATION ug/kg	MS/MSD CONCENTRATION ug/kg	% REC	Qual	QC LIMITS
DRO	8734	1950	12197	117%		68-131

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SOIL DIESEL RANGE ORGANICS MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** CDM Smith

Lab Code: CHEM **Cas No:** Q2100 **SAS No :** Q2100 **SDG No:** Q2100

Client SampleID : TP-45MSD **Datafile:** FG015904.D

COMPOUND	SPIKE ADDED ug/kg	SAMPLE CONCENTRATION ug/kg	MS/MSD CONCENTRATION ug/kg	% REC	Qual	QC LIMITS
DRO	8726	1950	12085	116%		68-131

MS/MSD % Recovery RPD : 1

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SOIL DIESEL RANGE ORGANICS LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE RI

Lab Name: Chemtech **Client:** CDM Smith

Lab Code: CHEM **Cas No:** Q2100 **SAS No :** Q2100 **SDG No:** Q2100

Matrix Spike - EPA Sample No : PB168150BS **Datafile:** FG015898.D

COMPOUND	SPIKE ADDED ug/kg	CONCENTRATION ug/kg	LCS/LCSD CONCENTRATION ug/kg	% REC	QC LIMITS
DRO	6660	0	6508	98	68-131

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4B
METHOD BLANK SUMMARY

EPA SAMPLE NO.
PB168150BL

Lab Name: CHEMTECH Contract: CAMP02

Lab Code: CHEM Case No.: Q2100 SAS No.: Q2100 SDG NO.: Q2100

Lab File ID: FG015897.D Lab Sample ID: PB168150BL

Instrument ID: FG Date Extracted: 05/23/2025

Matrix: (soil/water) Soil Date Analyzed: 05/23/25

Level: (low/med) low Time Analyzed: 13:58

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB168150BS	PB168150BS	FG015898.D	05/23/25
TP-16	Q2100-01	FG015899.D	05/23/25
TP-22	Q2100-02	FG015900.D	05/23/25
TP-21	Q2100-03	FG015901.D	05/23/25
TP-45	Q2100-04	FG015902.D	05/23/25
TP-45MS	Q2100-04MS	FG015903.D	05/23/25
TP-45MSD	Q2100-04MSD	FG015904.D	05/23/25

COMMENTS:

QC SAMPLE DATA

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Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	PB168150BL	SDG No.:	Q2100
Lab Sample ID:	PB168150BL	Matrix:	SOIL
Analytical Method:	8015D DRO	% Solid:	100 Decanted:
Sample Wt/Vol:	30.01 Units: g	Final Vol:	1 mL
Soil Aliquot Vol:	uL	Test:	Diesel Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG015897.D	1	05/23/25 10:10	05/23/25 13:58	PB168150

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	169	U	169	1670	ug/kg
SURROGATES						
16416-32-3	Tetracosane-d50	16.6		37 - 130	83%	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:	CDM Smith	Date Collected:	05/23/25
Project:	South River WM Replacement	Date Received:	05/23/25
Client Sample ID:	PIBLK-FG015894.D	SDG No.:	Q2100
Lab Sample ID:	I.BLK-FG015894.D	Matrix:	Water
Analytical Method:	8015D DRO	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1 mL
Soil Aliquot Vol:	uL	Test:	Diesel Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :	SW3510		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG015894.D	1		05/23/25	FG052325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
DRO	DRO	6.00	U	6.00	50.0	ug/L
SURROGATES						
16416-32-3	Tetracosane-d50	18.0		29 - 130	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
* = 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:	CDM Smith	Date Collected:	05/23/25
Project:	South River WM Replacement	Date Received:	05/23/25
Client Sample ID:	PIBLK-FG015906.D	SDG No.:	Q2100
Lab Sample ID:	I.BLK-FG015906.D	Matrix:	Water
Analytical Method:	8015D DRO	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1 mL
Soil Aliquot Vol:	uL	Test:	Diesel Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :	SW3510		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG015906.D	1		05/23/25	FG052325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
DRO	DRO	6.00	U	6.00	50.0	ug/L
SURROGATES						
16416-32-3	Tetracosane-d50	18.3		29 - 130	92%	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:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	PB168150BS	SDG No.:	Q2100
Lab Sample ID:	PB168150BS	Matrix:	SOIL
Analytical Method:	8015D DRO	% Solid:	100 Decanted:
Sample Wt/Vol:	30.03 Units: g	Final Vol:	1 mL
Soil Aliquot Vol:	uL	Test:	Diesel Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG015898.D	1	05/23/25 10:10	05/23/25 14:27	PB168150

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	6510		169	1670	ug/kg
SURROGATES						
16416-32-3	Tetracosane-d50	20.1		37 - 130	100%	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:	CDM Smith	Date Collected:	05/20/25
Project:	South River WM Replacement	Date Received:	05/20/25
Client Sample ID:	TP-45MS	SDG No.:	Q2100
Lab Sample ID:	Q2100-04MS	Matrix:	SOIL
Analytical Method:	8015D DRO	% Solid:	76.2 Decanted:
Sample Wt/Vol:	30.05 Units: g	Final Vol:	1 mL
Soil Aliquot Vol:	uL	Test:	Diesel Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG015903.D	1	05/23/25 10:10	05/23/25 16:54	PB168150

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	12200		221	2180	ug/kg
SURROGATES						
16416-32-3	Tetracosane-d50	12.7		37 - 130	64%	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:	CDM Smith	Date Collected:	05/20/25
Project:	South River WM Replacement	Date Received:	05/20/25
Client Sample ID:	TP-45MSD	SDG No.:	Q2100
Lab Sample ID:	Q2100-04MSD	Matrix:	SOIL
Analytical Method:	8015D DRO	% Solid:	76.2 Decanted:
Sample Wt/Vol:	30.08 Units: g	Final Vol:	1 mL
Soil Aliquot Vol:	uL	Test:	Diesel Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG015904.D	1	05/23/25 10:10	05/23/25 17:23	PB168150

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	12100		221	2180	ug/kg
SURROGATES						
16416-32-3	Tetracosane-d50	12.6		37 - 130	63%	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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DIESEL RANGE ORGANICS INITIAL CALIBRATION SUMMARY

Lab Name: Chemtech Contract: CAMP02

ProjectID: South River WM Replacement

Lab Code: CHEM Case No.: Q2100 SAS No.: Q2100 SDG No.: Q2100

Calibration Sequence : FG052225		Test : Diesel Range Organics	
Concentration (PPM)	**Area Count**	**Reference Factor**	**File ID**
1000	132190666	132191	FG015886.D
500	67168968	134338	FG015887.D
200	26324104	131621	FG015888.D
100	13743634	137436	FG015889.D
50	6335792	126716	FG015890.D

AVG RF : 132460 **% RSD : 2.974** **AVG RT : 14.9848**

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DIESEL RANGE ORGANICS CONTINUING CALIBRATION SUMMARY

50 PPM TRPH STD

Lab Name: Chemtech Contract: CAMP02

ProjectID: South River WM Replacement

Lab Code: CHEM Case No.: Q2100 SAS No.: Q2100 SDG No.: Q2100

DataFile: FG015895.D Analyst Name: YP\AJ Analyst Date: 05-23-2025

Conc. (PPM)	Area Count	RF	Average RF	%D
500	66357022	132714	132460	0.192

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DIESEL RANGE ORGANICS CONTINUING CALIBRATION SUMMARY

50 PPM TRPH STD

Lab Name: Chemtech Contract: CAMP02

ProjectID: South River WM Replacement

Lab Code: CHEM Case No.: Q2100 SAS No.: Q2100 SDG No.: Q2100

DataFile: FG015907.D Analyst Name: YP\AJ Analyst Date: 05-23-2025

Conc. (PPM)	Area Count	RF	Average RF	%D
500	60667323	121335	132460	8.399

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Analytical Sequence

Client: CDM Smith **SDG No.:** Q2100

Project: South River WM Replacement **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	23 May 2025 10:59	FG015894.D	14.982	
50 PPM TRPH STD	50 PPM TRPH STD	23 May 2025 12:30	FG015895.D	14.985	
PB168150BL	PB168150BL	23 May 2025 13:58	FG015897.D	14.983	
PB168150BS	PB168150BS	23 May 2025 14:27	FG015898.D	14.982	
TP-16	Q2100-01	23 May 2025 14:56	FG015899.D	14.981	
TP-22	Q2100-02	23 May 2025 15:26	FG015900.D	14.981	
TP-21	Q2100-03	23 May 2025 15:55	FG015901.D	14.985	
TP-45	Q2100-04	23 May 2025 16:24	FG015902.D	14.982	
TP-45MS	Q2100-04MS	23 May 2025 16:54	FG015903.D	14.982	
TP-45MSD	Q2100-04MSD	23 May 2025 17:23	FG015904.D	14.981	
PIBLK02	I.BLK02	23 May 2025 18:22	FG015906.D	14.982	
50 PPM TRPH STD	50 PPM TRPH STD	23 May 2025 18:51	FG015907.D	14.984	

 # 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\FG052325\
Data File : FG015899.D
Signal(s) : FID1A.ch
Acq On : 23 May 2025 14:56
Operator : YP\AJ
Sample : Q2100-01
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
TP-16

Integration File: autoint1.e
Quant Time: May 23 23:06:50 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...	14.981	1318931	10.761 ug/ml
Target Compounds			

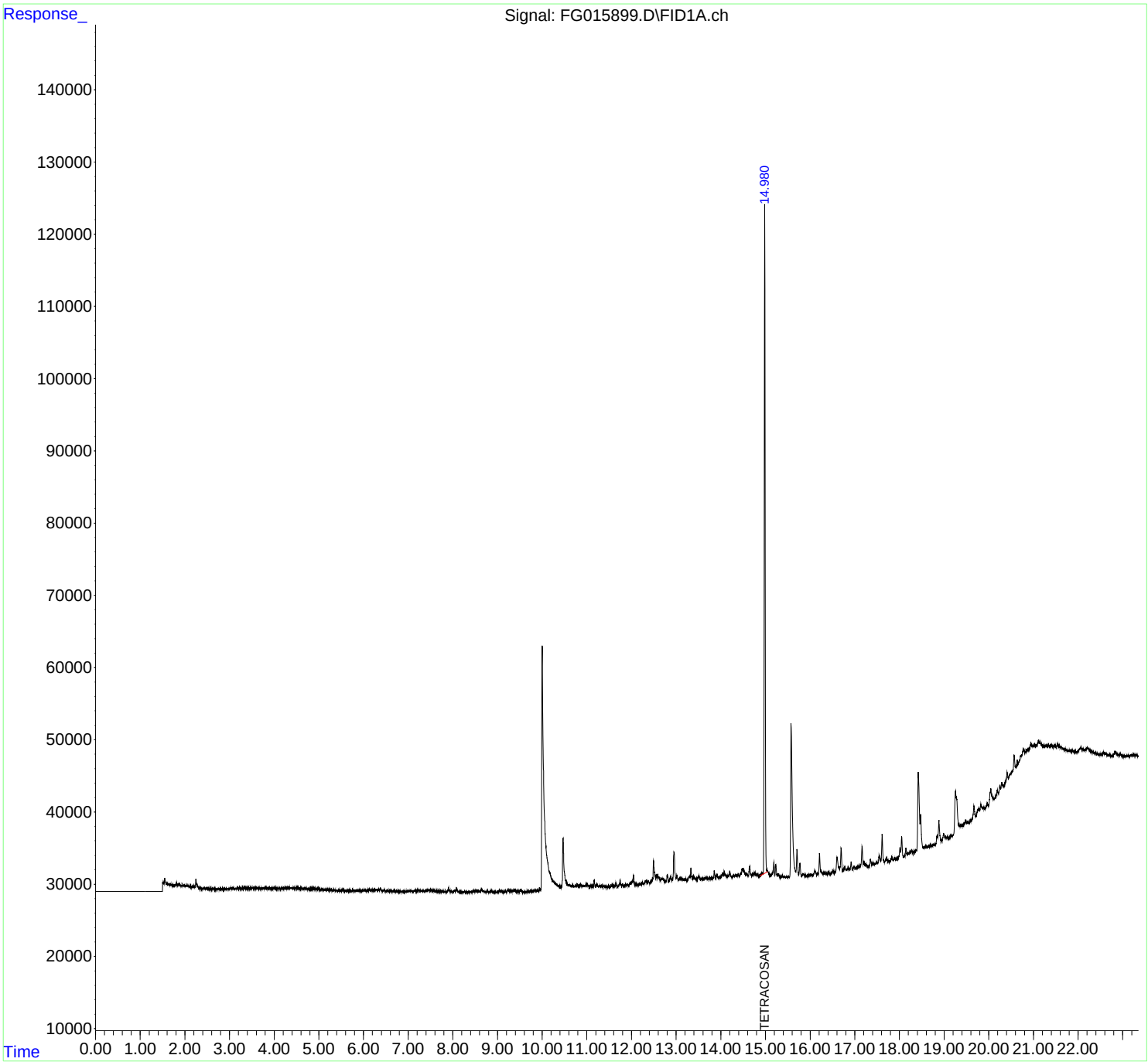
(f)=RT Delta > 1/2 Window (m)=manual int.

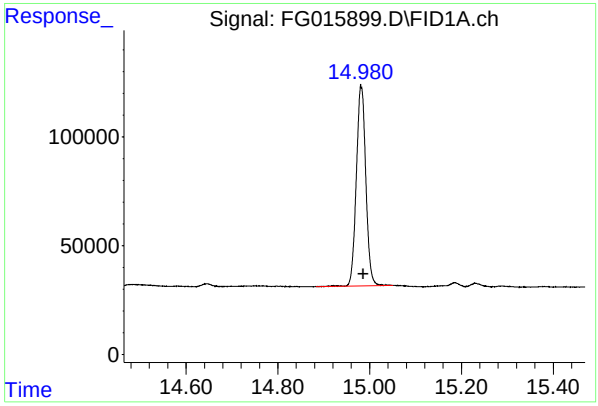
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG052325\
Data File : FG015899.D
Signal(s) : FID1A.ch
Acq On : 23 May 2025 14:56
Operator : YP\AJ
Sample : Q2100-01
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
TP-16

Integration File: autoint1.e
Quant Time: May 23 23:06:50 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.: 14.981 min
Delta R.T.: -0.005 mi
Response: 1318931
Conc: 10.76 ug/m

Instrument :
FID_G
ClientSampleId :
TP-16

11

A B C D E F G H I J

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG052325\
Data File : FG015899.D
Signal(s) : FID1A.ch
Acq On : 23 May 2025 14:56
Sample : Q2100-01
Misc :
ALS Vial : 23 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	4.325	4.300	4.344	BV	224	1327	0.09%	0.021%
2	4.348	4.344	4.351	VV	79	248	0.02%	0.004%
3	4.357	4.351	4.370	VV	107	873	0.06%	0.014%
4	4.377	4.370	4.406	VV	124	1582	0.11%	0.025%
5	4.411	4.406	4.415	PV	150	562	0.04%	0.009%
6	4.421	4.415	4.434	VV	111	1133	0.08%	0.018%
7	4.441	4.434	4.447	VV	177	917	0.07%	0.015%
8	4.462	4.447	4.483	VV	166	2682	0.19%	0.043%
9	4.489	4.483	4.503	VV	212	1959	0.14%	0.031%
10	4.506	4.503	4.516	VV	227	1215	0.09%	0.019%
11	4.521	4.516	4.530	VV	204	1164	0.08%	0.019%
12	4.540	4.530	4.544	VV	212	1358	0.10%	0.022%
13	4.552	4.544	4.561	VV	245	1715	0.12%	0.027%
14	4.562	4.561	4.593	VV	184	2382	0.17%	0.038%
15	4.603	4.593	4.640	VV	228	3585	0.26%	0.057%
16	4.643	4.640	4.660	VV	105	755	0.05%	0.012%
17	4.680	4.660	4.683	VV	222	1648	0.12%	0.026%
18	4.688	4.683	4.708	VV	236	1980	0.14%	0.032%
19	4.714	4.708	4.722	VV	175	862	0.06%	0.014%
20	4.726	4.722	4.735	VV	117	811	0.06%	0.013%
21	4.739	4.735	4.760	VV	126	1427	0.10%	0.023%
22	4.765	4.760	4.772	VV	116	652	0.05%	0.010%
23	4.777	4.772	4.787	VV	157	960	0.07%	0.015%
24	4.803	4.787	4.808	VV	158	1435	0.10%	0.023%
25	4.831	4.808	4.843	VV	218	2954	0.21%	0.047%
26	4.846	4.843	4.862	VV	189	1843	0.13%	0.029%
27	4.887	4.862	4.897	VV	225	3250	0.23%	0.052%
28	4.900	4.897	4.916	VV	218	1815	0.13%	0.029%
29	4.918	4.916	4.925	VV	210	878	0.06%	0.014%
30	4.932	4.925	4.943	VV	195	1528	0.11%	0.024%
31	4.959	4.943	4.983	VV	208	3841	0.27%	0.061%
32	4.990	4.983	5.001	VV	208	1550	0.11%	0.025%
33	5.003	5.001	5.019	VV	154	1402	0.10%	0.022%
34	5.022	5.019	5.032	VV	179	1018	0.07%	0.016%
35	5.035	5.032	5.048	VV	126	1008	0.07%	0.016%
36	5.050	5.048	5.067	VV	139	1397	0.10%	0.022%

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37	5.073	5.067	5.095	VV	165	1842	0.13%	0.029%
38	5.118	5.095	5.140	VV	182	3045	0.22%	0.049%
39	5.147	5.140	5.159	VV	155	1128	0.08%	0.018%
40	5.164	5.159	5.170	VV	134	660	0.05%	0.011%
41	5.173	5.170	5.186	VV	125	849	0.06%	0.014%
42	5.189	5.186	5.193	VV	136	413	0.03%	0.007%
43	5.201	5.193	5.222	VV	157	1703	0.12%	0.027%
44	5.227	5.222	5.241	VV	140	1113	0.08%	0.018%
45	5.245	5.241	5.262	VV	124	1304	0.09%	0.021%
46	5.270	5.262	5.277	VV	155	1023	0.07%	0.016%
47	5.283	5.277	5.298	VV	135	1190	0.09%	0.019%
48	5.303	5.298	5.318	VV	160	1234	0.09%	0.020%
49	5.325	5.318	5.338	VV	146	1158	0.08%	0.018%
50	5.340	5.338	5.350	VV	164	762	0.05%	0.012%
51	5.357	5.350	5.368	VV	125	975	0.07%	0.016%
52	5.380	5.368	5.385	VV	200	1100	0.08%	0.018%
53	5.395	5.385	5.405	VV	157	1262	0.09%	0.020%
54	5.409	5.405	5.423	VV	107	922	0.07%	0.015%
55	5.444	5.423	5.459	PV	141	1684	0.12%	0.027%
56	5.463	5.459	5.493	VV	161	1852	0.13%	0.030%
57	5.501	5.493	5.518	VV	98	1309	0.09%	0.021%
58	5.522	5.518	5.528	VV	144	566	0.04%	0.009%
59	5.534	5.528	5.553	VV	165	1416	0.10%	0.023%
60	5.570	5.553	5.577	VV	195	1382	0.10%	0.022%
61	5.581	5.577	5.600	VV	140	1169	0.08%	0.019%
62	5.619	5.600	5.624	VV	103	1107	0.08%	0.018%
63	5.637	5.624	5.685	VV	140	3154	0.23%	0.050%
64	5.689	5.685	5.699	VV	159	749	0.05%	0.012%
65	5.703	5.699	5.707	VV	117	501	0.04%	0.008%
66	5.708	5.707	5.737	VV	158	1778	0.13%	0.028%
67	5.753	5.737	5.788	VV	132	3280	0.23%	0.052%
68	5.794	5.788	5.850	VV	215	4073	0.29%	0.065%
69	5.857	5.850	5.866	VV	141	891	0.06%	0.014%
70	5.873	5.866	5.880	VV	134	788	0.06%	0.013%
71	5.884	5.880	5.893	VV	136	867	0.06%	0.014%
72	5.899	5.893	5.908	VV	148	935	0.07%	0.015%
73	5.915	5.908	5.939	VV	179	2170	0.16%	0.035%
74	5.947	5.939	5.952	VV	175	887	0.06%	0.014%
75	5.967	5.952	5.997	VV	159	3164	0.23%	0.050%
76	6.039	5.997	6.072	VV	228	6596	0.47%	0.105%
77	6.078	6.072	6.084	VV	219	1193	0.09%	0.019%
78	6.087	6.084	6.094	VV	169	854	0.06%	0.014%
79	6.098	6.094	6.122	VV	199	2744	0.20%	0.044%
80	6.130	6.122	6.140	VV	188	1881	0.13%	0.030%
81	6.149	6.140	6.171	VV	240	3179	0.23%	0.051%
82	6.182	6.171	6.197	VV	319	3062	0.22%	0.049%
83	6.203	6.197	6.236	VV	271	5121	0.37%	0.082%
84	6.251	6.236	6.255	VV	234	2196	0.16%	0.035%
85	6.261	6.255	6.282	VV	293	3743	0.27%	0.060%
86	6.287	6.282	6.298	VV	287	2447	0.18%	0.039%
87	6.304	6.298	6.337	VV	276	5293	0.38%	0.084%
88	6.342	6.337	6.353	VV	260	2197	0.16%	0.035%
89	6.356	6.353	6.361	VV	256	1112	0.08%	0.018%

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90	6.381	6.361	6.405	VV	527	8375	0.60%	0.134%
91	6.412	6.405	6.417	VV	235	1318	0.09%	0.021%
92	6.421	6.417	6.427	VV	220	908	0.06%	0.014%
93	6.432	6.427	6.439	VV	185	1094	0.08%	0.017%
94	6.441	6.439	6.491	VV	200	4944	0.35%	0.079%
95	6.496	6.491	6.500	VV	125	549	0.04%	0.009%
96	6.521	6.500	6.531	VV	157	2006	0.14%	0.032%
97	6.541	6.531	6.557	VV	171	1715	0.12%	0.027%
98	6.566	6.557	6.587	VV	159	2005	0.14%	0.032%
99	6.591	6.587	6.597	VV	122	690	0.05%	0.011%
100	6.599	6.597	6.609	VV	156	888	0.06%	0.014%
101	6.615	6.609	6.624	VV	144	915	0.07%	0.015%
102	6.627	6.624	6.636	VV	131	715	0.05%	0.011%
103	6.648	6.636	6.661	VV	117	1206	0.09%	0.019%
104	6.671	6.661	6.692	VV	158	1886	0.13%	0.030%
105	6.708	6.692	6.719	VV	160	1652	0.12%	0.026%
106	6.740	6.719	6.755	VV	171	2198	0.16%	0.035%
107	6.761	6.755	6.804	VV	154	2276	0.16%	0.036%
108	6.820	6.804	6.855	VV	109	1958	0.14%	0.031%
109	6.860	6.855	6.875	VV	100	585	0.04%	0.009%
110	6.892	6.875	6.900	PV	108	696	0.05%	0.011%
111	6.907	6.900	6.916	VV	116	537	0.04%	0.009%
112	6.920	6.916	6.929	PV	64	403	0.03%	0.006%
113	6.930	6.929	6.934	VV	94	176	0.01%	0.003%
114	6.959	6.934	6.980	VV	103	1962	0.14%	0.031%
115	6.988	6.980	6.994	VV	99	682	0.05%	0.011%
116	7.001	6.994	7.006	VV	142	800	0.06%	0.013%
117	7.015	7.006	7.022	VV	137	1125	0.08%	0.018%
118	7.056	7.022	7.082	VV	189	4760	0.34%	0.076%
119	7.093	7.082	7.099	VV	159	1236	0.09%	0.020%
120	7.104	7.099	7.115	VV	143	1010	0.07%	0.016%
121	7.139	7.115	7.161	VV	211	3906	0.28%	0.062%
122	7.204	7.161	7.217	VV	278	6599	0.47%	0.105%
123	7.224	7.217	7.236	VV	329	3039	0.22%	0.048%
124	7.250	7.236	7.303	VV	258	8648	0.62%	0.138%
125	7.311	7.303	7.323	VV	211	1999	0.14%	0.032%
126	7.337	7.323	7.360	VV	226	3568	0.26%	0.057%
127	7.436	7.360	7.444	VV	321	10275	0.74%	0.164%
128	7.453	7.444	7.555	VV	344	17238	1.23%	0.275%
129	7.561	7.555	7.622	VV	268	7823	0.56%	0.125%
130	7.631	7.622	7.714	VV	215	7193	0.51%	0.115%
131	7.726	7.714	7.752	VV	150	2518	0.18%	0.040%
132	7.761	7.752	7.812	VV	113	2792	0.20%	0.045%
133	7.818	7.812	7.837	VV	115	1186	0.08%	0.019%
134	7.844	7.837	7.864	VV	103	1283	0.09%	0.020%
135	7.904	7.864	8.007	VV	663	16317	1.17%	0.260%
136	8.044	8.007	8.062	VV	405	7175	0.51%	0.114%
137	8.078	8.062	8.167	VV	599	12598	0.90%	0.201%
138	8.174	8.167	8.195	VV	83	842	0.06%	0.013%
139	8.219	8.195	8.241	VV	99	1764	0.13%	0.028%
140	8.283	8.241	8.315	PV	119	2361	0.17%	0.038%
141	8.328	8.315	8.345	VV	97	925	0.07%	0.015%

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142	8.352	8.345	8.372	VV	89	1069	0.08%	0.017%
143	8.478	8.372	8.504	VV	214	9441	0.68%	0.151%
144	8.528	8.504	8.604	VV	305	11408	0.82%	0.182%
145	8.647	8.604	8.733	VV	532	17009	1.22%	0.271%
146	8.742	8.733	8.765	VV	123	1799	0.13%	0.029%
147	8.772	8.765	8.814	VV	145	2384	0.17%	0.038%
148	8.831	8.814	8.838	VV	97	1016	0.07%	0.016%
149	8.864	8.838	8.912	VV	201	4604	0.33%	0.073%
150	8.936	8.912	8.968	VV	142	2295	0.16%	0.037%
151	8.974	8.968	8.995	VV	92	662	0.05%	0.011%
152	9.048	8.995	9.083	VV	234	8373	0.60%	0.134%
153	9.089	9.083	9.099	VV	196	1385	0.10%	0.022%
154	9.102	9.099	9.147	VV	179	2449	0.18%	0.039%
155	9.173	9.147	9.213	PV	144	4541	0.32%	0.072%
156	9.235	9.213	9.272	VV	394	8436	0.60%	0.135%
157	9.289	9.272	9.322	VV	206	4772	0.34%	0.076%
158	9.347	9.322	9.364	VV	304	5232	0.37%	0.083%
159	9.381	9.364	9.410	VV	439	7670	0.55%	0.122%
160	9.433	9.410	9.458	VV	290	4160	0.30%	0.066%
161	9.466	9.458	9.483	VV	129	1708	0.12%	0.027%
162	9.518	9.483	9.572	VV	345	9470	0.68%	0.151%
163	9.579	9.572	9.592	VV	78	869	0.06%	0.014%
164	9.599	9.592	9.624	VV	116	1513	0.11%	0.024%
165	9.686	9.624	9.718	PV	152	5530	0.40%	0.088%
166	9.750	9.718	9.781	VV	194	5150	0.37%	0.082%
167	9.835	9.781	9.848	VV	211	6083	0.44%	0.097%
168	9.872	9.848	9.885	VV	248	4125	0.30%	0.066%
169	9.898	9.885	9.928	VV	202	3853	0.28%	0.061%
170	9.947	9.928	9.965	VV	513	6828	0.49%	0.109%
171	10.002	9.965	10.371	VV	33875	1334608	95.49%	21.281%
172	10.380	10.371	10.398	VV	687	9713	0.69%	0.155%
173	10.415	10.398	10.434	VV	563	11347	0.81%	0.181%
174	10.469	10.434	10.578	VV	7215	197058	14.10%	3.142%
175	10.602	10.578	10.658	VV	732	30173	2.16%	0.481%
176	10.679	10.658	10.715	VV	700	18539	1.33%	0.296%
177	10.741	10.715	10.761	VV	585	13890	0.99%	0.221%
178	10.782	10.761	10.818	VV	774	18430	1.32%	0.294%
179	10.838	10.818	10.865	VV	688	15737	1.13%	0.251%
180	10.871	10.865	10.898	VV	597	10266	0.73%	0.164%
181	10.932	10.898	10.952	VV	461	14584	1.04%	0.233%
182	10.991	10.952	11.055	VV	721	31370	2.24%	0.500%
183	11.089	11.055	11.135	VV	441	16973	1.21%	0.271%
184	11.167	11.135	11.197	VV	1230	22257	1.59%	0.355%
185	11.220	11.197	11.265	VV	533	16544	1.18%	0.264%
186	11.276	11.265	11.312	VV	430	8812	0.63%	0.141%
187	11.331	11.312	11.361	VV	371	7996	0.57%	0.127%
188	11.378	11.361	11.431	VV	280	8118	0.58%	0.129%
189	11.448	11.431	11.468	VV	248	3619	0.26%	0.058%
190	11.494	11.468	11.522	VV	182	4827	0.35%	0.077%
191	11.571	11.522	11.623	VV	437	14326	1.03%	0.228%
192	11.651	11.623	11.694	VV	633	11694	0.84%	0.186%
193	11.745	11.694	11.781	PV	1025	19710	1.41%	0.314%
194	11.799	11.781	11.834	VV	471	7243	0.52%	0.115%

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195	11.915	11.834	11.936	VV	425	14265	1.02%	0.227%
196	11.972	11.936	11.988	VV	604	11104	0.79%	0.177%
197	12.015	11.988	12.024	VV	656	12396	0.89%	0.198%
198	12.046	12.024	12.075	VV	1605	25619	1.83%	0.409%
199	12.092	12.075	12.105	VV	258	4418	0.32%	0.070%
200	12.117	12.105	12.155	VV	267	6549	0.47%	0.104%
201	12.175	12.155	12.188	VV	234	4053	0.29%	0.065%
202	12.213	12.188	12.222	VV	331	5563	0.40%	0.089%
203	12.242	12.222	12.277	VV	499	11908	0.85%	0.190%
204	12.328	12.277	12.358	VV	763	25896	1.85%	0.413%
205	12.368	12.358	12.377	VV	516	5715	0.41%	0.091%
206	12.384	12.377	12.418	VV	540	9658	0.69%	0.154%
207	12.437	12.418	12.455	VV	655	12035	0.86%	0.192%
208	12.496	12.455	12.540	VV	3407	81487	5.83%	1.299%
209	12.557	12.540	12.572	VV	1474	23401	1.67%	0.373%
210	12.587	12.572	12.605	VV	1471	24439	1.75%	0.390%
211	12.614	12.605	12.648	VV	1051	22280	1.59%	0.355%
212	12.662	12.648	12.691	VV	945	20899	1.50%	0.333%
213	12.711	12.691	12.773	VV	832	29969	2.14%	0.478%
214	12.803	12.773	12.833	VV	1357	29557	2.11%	0.471%
215	12.874	12.833	12.911	VV	1129	34170	2.44%	0.545%
216	12.952	12.911	12.998	VV	4445	102790	7.35%	1.639%
217	13.017	12.998	13.058	VV	1229	29160	2.09%	0.465%
218	13.083	13.058	13.109	VV	904	21258	1.52%	0.339%
219	13.132	13.109	13.151	VV	777	16985	1.22%	0.271%
220	13.157	13.151	13.188	VV	610	12352	0.88%	0.197%
221	13.207	13.188	13.256	VV	669	20980	1.50%	0.335%
222	13.298	13.256	13.307	VV	934	22779	1.63%	0.363%
223	13.331	13.307	13.361	VV	2141	40298	2.88%	0.643%
224	13.385	13.361	13.448	VV	1110	36520	2.61%	0.582%
225	13.514	13.448	13.541	VV	956	35947	2.57%	0.573%
226	13.557	13.541	13.568	VV	543	7894	0.56%	0.126%
227	13.581	13.568	13.618	VV	605	14951	1.07%	0.238%
228	13.652	13.618	13.666	VV	671	16475	1.18%	0.263%
229	13.686	13.666	13.709	VV	641	14500	1.04%	0.231%
230	13.774	13.709	13.805	VV	623	30996	2.22%	0.494%
231	13.852	13.805	13.875	VV	1534	33360	2.39%	0.532%
232	13.907	13.875	13.962	VV	979	37343	2.67%	0.595%
233	14.035	13.962	14.055	VV	1205	42803	3.06%	0.683%
234	14.079	14.055	14.131	VV	1272	41492	2.97%	0.662%
235	14.141	14.131	14.149	VV	705	7621	0.55%	0.122%
236	14.162	14.149	14.171	VV	718	8965	0.64%	0.143%
237	14.199	14.171	14.270	VV	1367	46866	3.35%	0.747%
238	14.292	14.270	14.305	VV	750	13706	0.98%	0.219%
239	14.318	14.305	14.328	VV	754	9868	0.71%	0.157%
240	14.338	14.328	14.358	VV	731	12249	0.88%	0.195%
241	14.394	14.358	14.413	VV	860	22917	1.64%	0.365%
242	14.445	14.413	14.454	VV	955	19650	1.41%	0.313%
243	14.486	14.454	14.566	VV	1598	81190	5.81%	1.295%
244	14.580	14.566	14.620	VV	836	23422	1.68%	0.373%
245	14.645	14.620	14.677	VV	1889	39186	2.80%	0.625%
246	14.751	14.677	14.787	VV	913	49733	3.56%	0.793%

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247	14.799	14.787	14.831	VV	760	16591	1.19%	0.265%
248	14.840	14.831	14.871	VV	586	11988	0.86%	0.191%
249	14.924	14.871	14.944	VV	846	29433	2.11%	0.469%
250	14.982	14.944	15.121	VV	92994	1397676	100.00%	22.286%
251	15.186	15.121	15.209	VV	2213	50654	3.62%	0.808%
252	15.231	15.209	15.268	VV	1885	34709	2.48%	0.553%
253	15.288	15.268	15.365	VV	641	16986	1.22%	0.271%
254	15.379	15.365	15.415	VV	349	7102	0.51%	0.113%
255	15.431	15.415	15.457	VV	159	3272	0.23%	0.052%
256	15.481	15.457	15.498	VV	132	2372	0.17%	0.038%
257	15.513	15.498	15.538	VV	163	2427	0.17%	0.039%
258	15.574	15.538	15.676	VV	20855	551454	39.46%	8.793%
259	15.705	15.676	15.745	VV	3821	69965	5.01%	1.116%
260	15.771	15.745	15.818	VV	1855	33130	2.37%	0.528%
261	15.835	15.818	15.898	VV	428	12220	0.87%	0.195%
262	15.919	15.898	15.943	VV	161	2550	0.18%	0.041%
263	16.008	15.943	16.051	PV	296	10666	0.76%	0.170%
264	16.105	16.051	16.147	VV	756	19996	1.43%	0.319%
265	16.209	16.147	16.268	VV	2965	55885	4.00%	0.891%
266	16.276	16.268	16.327	VV	282	6561	0.47%	0.105%
267	16.337	16.327	16.370	VV	199	2323	0.17%	0.037%
268	16.406	16.370	16.454	VV	212	3486	0.25%	0.056%
269	16.509	16.454	16.541	PV	361	7572	0.54%	0.121%
270	16.604	16.541	16.638	VV	2153	52286	3.74%	0.834%
271	16.651	16.638	16.664	VV	688	10218	0.73%	0.163%
272	16.694	16.664	16.741	VV	3278	55798	3.99%	0.890%
273	16.776	16.741	16.801	VV	648	13026	0.93%	0.208%
274	16.853	16.801	16.888	VV	364	10842	0.78%	0.173%
275	16.918	16.888	16.948	VV	1154	16810	1.20%	0.268%
276	16.981	16.948	17.011	PV	426	9020	0.65%	0.144%
277	17.039	17.011	17.067	VV	324	6429	0.46%	0.103%
278	17.163	17.067	17.191	VV	2960	61663	4.41%	0.983%
279	17.208	17.191	17.229	VV	830	13020	0.93%	0.208%
280	17.245	17.229	17.325	VV	448	9611	0.69%	0.153%
281	17.352	17.325	17.379	PV	934	13899	0.99%	0.222%
282	17.409	17.379	17.428	VV	242	4413	0.32%	0.070%

Sum of corrected areas: 6271408

FG052225.M Sat May 24 02:05:26 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG052325\
Data File : FG015900.D
Signal(s) : FID1A.ch
Acq On : 23 May 2025 15:26
Operator : YP\AJ
Sample : Q2100-02
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
TP-22

Integration File: autoint1.e
Quant Time: May 23 23:07:08 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...	14.981	1362418	11.116 ug/ml
Target Compounds			

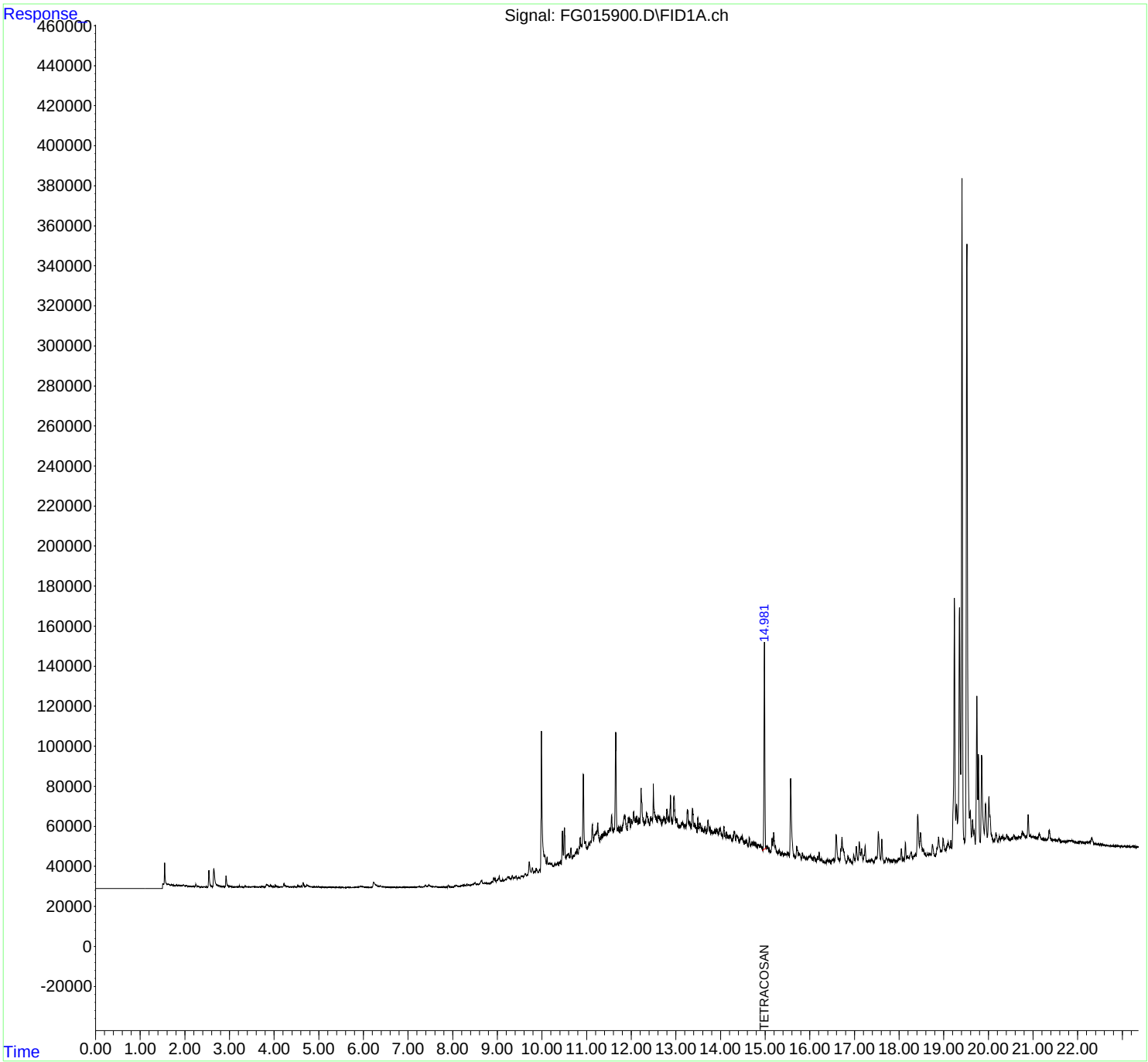
(f)=RT Delta > 1/2 Window (m)=manual int.

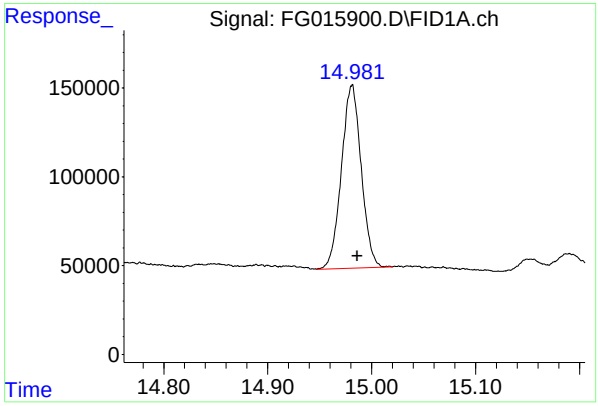
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG052325\
Data File : FG015900.D
Signal(s) : FID1A.ch
Acq On : 23 May 2025 15:26
Operator : YP\AJ
Sample : Q2100-02
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
TP-22

Integration File: autoint1.e
Quant Time: May 23 23:07:08 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.: 14.981 min
Delta R.T.: -0.005 mi
Response: 1362418
Conc: 11.12 ug/m

Instrument :
FID_G
ClientSampleId :
TP-22

11

A B C D E F G H I J

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG052325\
Data File : FG015900.D
Signal(s) : FID1A.ch
Acq On : 23 May 2025 15:26
Sample : Q2100-02
Misc :
ALS Vial : 24 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	4.311	4.300	4.350	BV	110	2079	0.10%	0.003%
2	4.365	4.350	4.373	PV	182	1588	0.08%	0.002%
3	4.376	4.373	4.393	VV	178	834	0.04%	0.001%
4	4.397	4.393	4.408	VV	52	552	0.03%	0.001%
5	4.417	4.408	4.428	VV	160	1153	0.06%	0.002%
6	4.441	4.428	4.447	VV	187	1140	0.06%	0.001%
7	4.450	4.447	4.467	VV	131	962	0.05%	0.001%
8	4.471	4.467	4.480	VV	166	692	0.03%	0.001%
9	4.493	4.480	4.511	VV	227	2848	0.14%	0.004%
10	4.531	4.511	4.586	VV	744	14694	0.71%	0.019%
11	4.611	4.586	4.630	VV	517	7524	0.36%	0.010%
12	4.650	4.630	4.701	VV	2322	44838	2.17%	0.058%
13	4.710	4.701	4.713	VV	446	2917	0.14%	0.004%
14	4.739	4.713	4.801	VV	1248	37168	1.80%	0.048%
15	4.810	4.801	4.819	VV	369	3611	0.17%	0.005%
16	4.825	4.819	4.839	VV	324	3112	0.15%	0.004%
17	4.843	4.839	4.850	VV	261	1570	0.08%	0.002%
18	4.854	4.850	4.876	VV	264	3449	0.17%	0.004%
19	4.879	4.876	4.911	VV	295	5469	0.26%	0.007%
20	4.921	4.911	4.929	VV	303	2305	0.11%	0.003%
21	4.935	4.929	4.942	VV	283	1648	0.08%	0.002%
22	4.951	4.942	4.956	VV	292	1918	0.09%	0.002%
23	4.961	4.956	4.972	VV	278	1963	0.10%	0.003%
24	4.995	4.972	5.035	VV	405	9140	0.44%	0.012%
25	5.046	5.035	5.050	VV	151	1141	0.06%	0.001%
26	5.068	5.050	5.089	VV	188	3296	0.16%	0.004%
27	5.096	5.089	5.119	VV	217	2522	0.12%	0.003%
28	5.125	5.119	5.134	VV	136	620	0.03%	0.001%
29	5.138	5.134	5.151	PV	97	724	0.04%	0.001%
30	5.160	5.151	5.188	VV	191	2580	0.12%	0.003%
31	5.204	5.188	5.210	VV	172	1628	0.08%	0.002%
32	5.214	5.210	5.219	VV	132	585	0.03%	0.001%
33	5.223	5.219	5.238	VV	167	1306	0.06%	0.002%
34	5.254	5.238	5.278	VV	315	4888	0.24%	0.006%
35	5.289	5.278	5.329	VV	262	4856	0.24%	0.006%
36	5.347	5.329	5.359	VV	130	1482	0.07%	0.002%

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37	5.367	5.359	5.393	VV	139	1503	0.07%	0.002%
38	5.407	5.393	5.413	VV	121	858	0.04%	0.001%
39	5.429	5.413	5.455	VV	161	1925	0.09%	0.003%
40	5.481	5.455	5.485	VV	215	2257	0.11%	0.003%
41	5.492	5.485	5.508	VV	234	2289	0.11%	0.003%
42	5.515	5.508	5.524	VV	241	1631	0.08%	0.002%
43	5.526	5.524	5.553	VV	193	2006	0.10%	0.003%
44	5.557	5.553	5.561	VV	125	405	0.02%	0.001%
45	5.567	5.561	5.582	VV	132	1337	0.06%	0.002%
46	5.588	5.582	5.612	VV	174	1461	0.07%	0.002%
47	5.637	5.612	5.655	PV	382	5605	0.27%	0.007%
48	5.660	5.655	5.687	VV	283	3585	0.17%	0.005%
49	5.693	5.687	5.725	VV	247	2647	0.13%	0.003%
50	5.730	5.725	5.734	VV	111	376	0.02%	0.000%
51	5.738	5.734	5.753	VV	132	908	0.04%	0.001%
52	5.765	5.753	5.771	VV	128	1129	0.05%	0.001%
53	5.776	5.771	5.783	VV	129	745	0.04%	0.001%
54	5.787	5.783	5.798	VV	191	1418	0.07%	0.002%
55	5.808	5.798	5.813	VV	195	1445	0.07%	0.002%
56	5.835	5.813	5.854	VV	389	6430	0.31%	0.008%
57	5.857	5.854	5.871	VV	258	2359	0.11%	0.003%
58	5.880	5.871	5.885	VV	243	1820	0.09%	0.002%
59	5.931	5.885	5.949	VV	756	17292	0.84%	0.023%
60	5.953	5.949	5.984	VV	576	10852	0.53%	0.014%
61	5.989	5.984	6.021	VV	523	8902	0.43%	0.012%
62	6.027	6.021	6.043	VV	346	3819	0.18%	0.005%
63	6.047	6.043	6.074	VV	286	3821	0.18%	0.005%
64	6.076	6.074	6.087	VV	190	1044	0.05%	0.001%
65	6.107	6.087	6.144	VV	277	5192	0.25%	0.007%
66	6.161	6.144	6.169	VV	115	1240	0.06%	0.002%
67	6.174	6.169	6.189	VV	113	978	0.05%	0.001%
68	6.230	6.189	6.326	VV	2810	111623	5.40%	0.145%
69	6.333	6.326	6.342	VV	799	6809	0.33%	0.009%
70	6.345	6.342	6.363	VV	792	8910	0.43%	0.012%
71	6.382	6.363	6.416	VV	937	21044	1.02%	0.027%
72	6.421	6.416	6.434	VV	398	3960	0.19%	0.005%
73	6.443	6.434	6.516	VV	474	15677	0.76%	0.020%
74	6.520	6.516	6.528	VV	215	1458	0.07%	0.002%
75	6.551	6.528	6.567	VV	290	5385	0.26%	0.007%
76	6.571	6.567	6.579	VV	314	2001	0.10%	0.003%
77	6.584	6.579	6.590	VV	277	1536	0.07%	0.002%
78	6.597	6.590	6.607	VV	318	2519	0.12%	0.003%
79	6.611	6.607	6.639	VV	244	3165	0.15%	0.004%
80	6.647	6.639	6.652	VV	190	1145	0.06%	0.001%
81	6.680	6.652	6.692	VV	320	4908	0.24%	0.006%
82	6.697	6.692	6.708	VV	217	1536	0.07%	0.002%
83	6.711	6.708	6.717	VV	174	774	0.04%	0.001%
84	6.728	6.717	6.738	VV	149	1536	0.07%	0.002%
85	6.741	6.738	6.755	VV	144	1150	0.06%	0.001%
86	6.760	6.755	6.766	VV	137	574	0.03%	0.001%
87	6.773	6.766	6.781	VV	107	598	0.03%	0.001%
88	6.823	6.781	6.852	PV	230	4775	0.23%	0.006%
89	6.861	6.852	6.867	VV	173	1286	0.06%	0.002%

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90	6.872	6.867	6.890	VV	177	1827	0.09%	0.002%
91	6.900	6.890	6.917	VV	199	2855	0.14%	0.004%
92	6.923	6.917	6.933	VV	239	1680	0.08%	0.002%
93	6.937	6.933	6.947	VV	171	1181	0.06%	0.002%
94	6.961	6.947	6.967	VV	239	2112	0.10%	0.003%
95	6.973	6.967	6.989	VV	257	2564	0.12%	0.003%
96	6.993	6.989	6.998	VV	224	866	0.04%	0.001%
97	7.012	6.998	7.029	VV	197	2481	0.12%	0.003%
98	7.035	7.029	7.055	VV	136	1353	0.07%	0.002%
99	7.057	7.055	7.063	VV	110	465	0.02%	0.001%
100	7.079	7.063	7.119	VV	229	4362	0.21%	0.006%
101	7.126	7.119	7.147	VV	200	2015	0.10%	0.003%
102	7.152	7.147	7.162	VV	125	851	0.04%	0.001%
103	7.171	7.162	7.176	VV	153	1052	0.05%	0.001%
104	7.213	7.176	7.226	VV	295	6098	0.30%	0.008%
105	7.244	7.226	7.261	VV	435	7031	0.34%	0.009%
106	7.266	7.261	7.277	VV	337	2779	0.13%	0.004%
107	7.292	7.277	7.317	VV	366	6160	0.30%	0.008%
108	7.390	7.317	7.441	VV	1041	42202	2.04%	0.055%
109	7.466	7.441	7.548	VV	1184	44421	2.15%	0.058%
110	7.564	7.548	7.600	VV	427	9228	0.45%	0.012%
111	7.622	7.600	7.663	VV	482	11177	0.54%	0.015%
112	7.668	7.663	7.692	VV	151	2061	0.10%	0.003%
113	7.707	7.692	7.718	VV	159	1659	0.08%	0.002%
114	7.720	7.718	7.725	VV	150	316	0.02%	0.000%
115	7.730	7.725	7.761	VV	120	1401	0.07%	0.002%
116	7.793	7.761	7.834	VV	346	5962	0.29%	0.008%
117	7.836	7.834	7.859	VV	49	447	0.02%	0.001%
118	7.863	7.859	7.878	PV	79	789	0.04%	0.001%
119	7.902	7.878	7.943	VV	1105	17193	0.83%	0.022%
120	7.950	7.943	7.959	VV	259	1850	0.09%	0.002%
121	7.961	7.959	7.979	VV	229	1492	0.07%	0.002%
122	7.990	7.979	8.004	VV	227	1913	0.09%	0.002%
123	8.010	8.004	8.019	PV	130	778	0.04%	0.001%
124	8.046	8.019	8.060	VV	654	8281	0.40%	0.011%
125	8.076	8.060	8.096	VV	886	12954	0.63%	0.017%
126	8.099	8.096	8.119	VV	494	4452	0.22%	0.006%
127	8.121	8.119	8.134	VV	236	1943	0.09%	0.003%
128	8.143	8.134	8.168	VV	291	4029	0.20%	0.005%
129	8.200	8.168	8.213	VV	538	9659	0.47%	0.013%
130	8.231	8.213	8.248	VV	653	11230	0.54%	0.015%
131	8.258	8.248	8.270	VV	628	6869	0.33%	0.009%
132	8.289	8.270	8.303	VV	516	8930	0.43%	0.012%
133	8.320	8.303	8.344	VV	1204	19479	0.94%	0.025%
134	8.368	8.344	8.388	VV	641	13052	0.63%	0.017%
135	8.392	8.388	8.397	VV	396	2017	0.10%	0.003%
136	8.411	8.397	8.422	VV	612	7258	0.35%	0.009%
137	8.440	8.422	8.454	VV	918	13791	0.67%	0.018%
138	8.503	8.454	8.538	VV	1726	50069	2.42%	0.065%
139	8.551	8.538	8.573	VV	820	14595	0.71%	0.019%
140	8.586	8.573	8.591	VV	620	6433	0.31%	0.008%
141	8.652	8.591	8.678	VV	2691	79421	3.85%	0.103%

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142	8.681	8.678	8.700	VV	1108	13165	0.64%	0.017%
143	8.720	8.700	8.737	VV	1233	23293	1.13%	0.030%
144	8.753	8.737	8.779	VV	1148	24474	1.18%	0.032%
145	8.789	8.779	8.809	VV	848	13538	0.66%	0.018%
146	8.861	8.809	8.871	VV	1394	33370	1.62%	0.043%
147	8.883	8.871	8.899	VV	1508	23645	1.14%	0.031%
148	8.920	8.899	8.938	VV	3482	61381	2.97%	0.080%
149	8.953	8.938	8.978	VV	3337	56175	2.72%	0.073%
150	8.993	8.978	9.003	VV	2298	30836	1.49%	0.040%
151	9.019	9.003	9.030	VV	2946	41290	2.00%	0.054%
152	9.044	9.030	9.072	VV	4150	71211	3.45%	0.093%
153	9.089	9.072	9.100	VV	1947	29461	1.43%	0.038%
154	9.120	9.100	9.139	VV	2413	44751	2.17%	0.058%
155	9.191	9.139	9.203	VV	2509	79588	3.85%	0.104%
156	9.241	9.203	9.290	VV	3472	151885	7.35%	0.198%
157	9.297	9.290	9.313	VV	2676	36760	1.78%	0.048%
158	9.336	9.313	9.357	VV	4096	83694	4.05%	0.109%
159	9.376	9.357	9.397	VV	3008	67794	3.28%	0.088%
160	9.419	9.397	9.442	VV	3709	83201	4.03%	0.108%
161	9.463	9.442	9.474	VV	2836	49797	2.41%	0.065%
162	9.485	9.474	9.511	VV	2880	57405	2.78%	0.075%
163	9.536	9.511	9.549	VV	3727	73392	3.55%	0.096%
164	9.566	9.549	9.591	VV	3590	83839	4.06%	0.109%
165	9.636	9.591	9.661	VV	4579	161269	7.81%	0.210%
166	9.717	9.661	9.761	VV	10494	370169	17.92%	0.482%
167	9.786	9.761	9.818	VV	7345	206425	9.99%	0.269%
168	9.838	9.818	9.852	VV	5490	107635	5.21%	0.140%
169	9.872	9.852	9.886	VV	7090	124773	6.04%	0.163%
170	9.892	9.886	9.913	VV	5990	88303	4.28%	0.115%
171	9.947	9.913	9.964	VV	6381	169391	8.20%	0.221%
172	9.989	9.964	10.049	VV	74859	1475095	71.42%	1.922%
173	10.063	10.049	10.099	VV	13361	350749	16.98%	0.457%
174	10.115	10.099	10.138	VV	12129	238865	11.56%	0.311%
175	10.149	10.138	10.155	VV	9089	87538	4.24%	0.114%
176	10.170	10.155	10.181	VV	9174	140444	6.80%	0.183%
177	10.186	10.181	10.194	VV	8832	69343	3.36%	0.090%
178	10.198	10.194	10.205	VV	8900	57040	2.76%	0.074%
179	10.218	10.205	10.258	VV	9079	258043	12.49%	0.336%
180	10.290	10.258	10.313	VV	8744	268712	13.01%	0.350%
181	10.350	10.313	10.369	VV	9255	287846	13.94%	0.375%
182	10.389	10.369	10.403	VV	9327	183755	8.90%	0.239%
183	10.413	10.403	10.418	VV	9168	80756	3.91%	0.105%
184	10.459	10.418	10.481	VV	24896	542732	26.28%	0.707%
185	10.505	10.481	10.530	VV	25932	541880	26.23%	0.706%
186	10.564	10.530	10.569	VV	12774	282304	13.67%	0.368%
187	10.590	10.569	10.620	VV	13370	383131	18.55%	0.499%
188	10.650	10.620	10.675	VV	16087	430648	20.85%	0.561%
189	10.705	10.675	10.712	VV	12495	257325	12.46%	0.335%
190	10.717	10.712	10.725	VV	12372	97256	4.71%	0.127%
191	10.757	10.725	10.761	VV	13474	281667	13.64%	0.367%
192	10.784	10.761	10.811	VV	15232	415388	20.11%	0.541%
193	10.857	10.811	10.873	VV	20968	623275	30.18%	0.812%
194	10.885	10.873	10.893	VV	17213	198131	9.59%	0.258%

rteres

195	10.929	10.893	10.958	VV	52158	1147360	55.55%	1.495%
196	10.975	10.958	11.007	VV	18916	516589	25.01%	0.673%
197	11.012	11.007	11.024	VV	15591	157154	7.61%	0.205%
198	11.051	11.024	11.073	VV	18225	493038	23.87%	0.643%
199	11.092	11.073	11.101	VV	18950	308226	14.92%	0.402%
200	11.129	11.101	11.158	VV	27164	765700	37.07%	0.998%
201	11.182	11.158	11.188	VV	22234	376285	18.22%	0.490%
202	11.208	11.188	11.225	VV	23261	496942	24.06%	0.648%
203	11.252	11.225	11.294	VV	27733	944121	45.71%	1.230%
204	11.310	11.294	11.323	VV	20363	340584	16.49%	0.444%
205	11.338	11.323	11.352	VV	21864	371427	17.98%	0.484%
206	11.366	11.352	11.377	VV	22154	320406	15.51%	0.418%
207	11.393	11.377	11.408	VV	23208	417079	20.19%	0.544%
208	11.419	11.408	11.433	VV	22592	338604	16.39%	0.441%
209	11.436	11.433	11.443	VV	22068	131469	6.37%	0.171%
210	11.447	11.443	11.462	VV	22025	238958	11.57%	0.311%
211	11.487	11.462	11.498	VV	23880	501854	24.30%	0.654%
212	11.515	11.498	11.520	VV	24807	307950	14.91%	0.401%
213	11.525	11.520	11.535	VV	25272	221050	10.70%	0.288%
214	11.561	11.535	11.598	VV	31319	974887	47.20%	1.270%
215	11.654	11.598	11.693	VV	72368	2038338	98.69%	2.656%
216	11.697	11.693	11.701	VV	23800	125292	6.07%	0.163%
217	11.719	11.701	11.744	VV	25480	619948	30.01%	0.808%
218	11.763	11.744	11.783	VV	25465	552230	26.74%	0.720%
219	11.858	11.783	11.912	VV	31226	2065494	100.00%	2.692%
220	11.933	11.912	11.948	VV	29454	597761	28.94%	0.779%
221	11.963	11.948	11.984	VV	29428	589499	28.54%	0.768%
222	12.006	11.984	12.026	VV	28603	672582	32.56%	0.876%
223	12.053	12.026	12.074	VV	32338	853608	41.33%	1.112%
224	12.082	12.074	12.098	VV	28444	406048	19.66%	0.529%
225	12.102	12.098	12.105	VV	27452	106210	5.14%	0.138%
226	12.124	12.105	12.137	VV	29935	548411	26.55%	0.715%
227	12.142	12.137	12.157	VV	27883	323887	15.68%	0.422%
228	12.175	12.157	12.191	VV	28975	564283	27.32%	0.735%
229	12.221	12.191	12.293	VV	43898	1983557	96.03%	2.585%
230	12.300	12.293	12.307	VV	27131	210289	10.18%	0.274%
231	12.346	12.307	12.413	VV	31242	1795696	86.94%	2.340%
232	12.442	12.413	12.468	VV	29547	900671	43.61%	1.174%
233	12.471	12.468	12.478	VV	28167	165295	8.00%	0.215%
234	12.496	12.478	12.553	VV	45652	1517200	73.45%	1.977%
235	12.559	12.553	12.580	VV	28688	440077	21.31%	0.573%
236	12.597	12.580	12.615	VV	30148	601186	29.11%	0.783%
237	12.623	12.615	12.640	VV	29368	427291	20.69%	0.557%
238	12.644	12.640	12.688	VV	28306	772339	37.39%	1.006%
239	12.737	12.688	12.773	VV	29220	1388509	67.22%	1.809%
240	12.797	12.773	12.826	VV	32793	943701	45.69%	1.230%
241	12.839	12.826	12.855	VV	28709	478497	23.17%	0.624%
242	12.878	12.855	12.900	VV	39589	873279	42.28%	1.138%
243	12.908	12.900	12.922	VV	27775	351544	17.02%	0.458%
244	12.956	12.922	13.008	VV	38770	1582916	76.64%	2.063%
245	13.027	13.008	13.058	VV	27676	752524	36.43%	0.981%
246	13.062	13.058	13.067	VV	23805	129148	6.25%	0.168%

rteres

247	13.080	13.067	13.087	VV	24419	284157	13.76%	0.370%
248	13.092	13.087	13.105	VV	23963	259593	12.57%	0.338%
249	13.129	13.105	13.189	VV	25510	1235756	59.83%	1.610%
250	13.202	13.189	13.220	VV	24685	435276	21.07%	0.567%
251	13.260	13.220	13.289	VV	31442	1136202	55.01%	1.481%
252	13.297	13.289	13.318	VV	25827	429886	20.81%	0.560%
253	13.327	13.318	13.345	VV	24699	391600	18.96%	0.510%
254	13.373	13.345	13.402	VV	32123	926664	44.86%	1.208%
255	13.421	13.402	13.450	VV	24739	684403	33.14%	0.892%
256	13.457	13.450	13.473	VV	22847	295843	14.32%	0.386%
257	13.495	13.473	13.519	VV	27279	652675	31.60%	0.851%
258	13.532	13.519	13.539	VV	24269	285783	13.84%	0.372%
259	13.544	13.539	13.574	VV	24447	476607	23.07%	0.621%
260	13.587	13.574	13.594	VV	22376	266574	12.91%	0.347%
261	13.599	13.594	13.624	VV	21886	369136	17.87%	0.481%
262	13.650	13.624	13.687	VV	22855	788162	38.16%	1.027%
263	13.718	13.687	13.748	VV	26106	835857	40.47%	1.089%
264	13.755	13.748	13.763	VV	22328	192573	9.32%	0.251%
265	13.767	13.763	13.789	VV	22108	323828	15.68%	0.422%
266	13.797	13.789	13.820	VV	20790	380573	18.43%	0.496%
267	13.835	13.820	13.853	VV	19976	386136	18.69%	0.503%
268	13.873	13.853	13.898	VV	21046	531279	25.72%	0.692%
269	13.914	13.898	13.954	VV	21423	676814	32.77%	0.882%
270	13.978	13.954	14.027	VV	21390	879549	42.58%	1.146%
271	14.034	14.027	14.054	VV	18159	279450	13.53%	0.364%
272	14.076	14.054	14.110	VV	22446	640624	31.02%	0.835%
273	14.129	14.110	14.149	VV	19762	423079	20.48%	0.551%
274	14.164	14.149	14.182	VV	17657	333202	16.13%	0.434%
275	14.196	14.182	14.209	VV	18047	281882	13.65%	0.367%
276	14.214	14.209	14.218	VV	17140	90207	4.37%	0.118%
277	14.225	14.218	14.256	VV	17402	370735	17.95%	0.483%
278	14.262	14.256	14.270	VV	15741	125938	6.10%	0.164%
279	14.315	14.270	14.339	VV	19517	715771	34.65%	0.933%
280	14.360	14.339	14.376	VV	17712	373599	18.09%	0.487%
281	14.383	14.376	14.421	VV	17065	424455	20.55%	0.553%
282	14.446	14.421	14.450	VV	15462	262968	12.73%	0.343%
283	14.484	14.450	14.534	VV	17013	765508	37.06%	0.998%
284	14.551	14.534	14.560	VV	14358	217279	10.52%	0.283%
285	14.583	14.560	14.620	VV	14933	482774	23.37%	0.629%
286	14.642	14.620	14.670	VV	16263	410381	19.87%	0.535%
287	14.701	14.670	14.731	VV	13512	463293	22.43%	0.604%
288	14.735	14.731	14.750	VV	12678	146748	7.10%	0.191%
289	14.778	14.750	14.819	VV	13428	502981	24.35%	0.655%
290	14.833	14.819	14.840	VV	12205	147692	7.15%	0.192%
291	14.847	14.840	14.877	VV	12369	261768	12.67%	0.341%
292	14.889	14.877	14.898	VV	12010	147070	7.12%	0.192%
293	14.900	14.898	14.904	VV	11582	43682	2.11%	0.057%
294	14.907	14.904	14.910	VV	11341	40334	1.95%	0.053%
295	14.918	14.910	14.946	VV	11128	226884	10.98%	0.296%
296	14.981	14.946	15.012	VV	112815	1749643	84.71%	2.280%
297	15.035	15.012	15.107	VV	10931	571436	27.67%	0.745%
298	15.110	15.107	15.124	VV	8591	83311	4.03%	0.109%
299	15.151	15.124	15.170	VV	14584	318303	15.41%	0.415%

rteres

300	15.190	15.170	15.224	VV	17633	449866	21.78%	0.586%
301	15.231	15.224	15.257	VV	11017	190958	9.25%	0.249%
302	15.264	15.257	15.283	VV	8480	121563	5.89%	0.158%
303	15.308	15.283	15.348	VV	8775	302798	14.66%	0.395%
304	15.356	15.348	15.360	VV	6678	45378	2.20%	0.059%
305	15.383	15.360	15.388	VV	7825	123125	5.96%	0.160%
306	15.390	15.388	15.420	VV	7449	129949	6.29%	0.169%
307	15.440	15.420	15.455	VV	7062	140172	6.79%	0.183%
308	15.459	15.455	15.470	VV	6715	59491	2.88%	0.078%
309	15.476	15.470	15.482	VV	6528	42854	2.07%	0.056%
310	15.509	15.482	15.539	VV	7461	233322	11.30%	0.304%
311	15.570	15.539	15.677	VV	44155	1204517	58.32%	1.570%
312	15.708	15.677	15.750	VV	10170	320401	15.51%	0.418%
313	15.763	15.750	15.810	VV	6476	196679	9.52%	0.256%
314	15.834	15.810	15.858	VV	6850	155432	7.53%	0.203%
315	15.879	15.858	15.905	VV	4923	125440	6.07%	0.163%
316	15.925	15.905	15.944	VV	4734	94140	4.56%	0.123%
317	15.972	15.944	15.977	VV	4728	83141	4.03%	0.108%
318	15.983	15.977	15.989	VV	4668	31364	1.52%	0.041%
319	15.998	15.989	16.008	VV	5095	57125	2.77%	0.074%
320	16.013	16.008	16.075	VV	5361	164504	7.96%	0.214%
321	16.093	16.075	16.146	VV	4807	152213	7.37%	0.198%
322	16.173	16.146	16.186	VV	4593	87271	4.23%	0.114%
323	16.207	16.186	16.233	VV	6844	127145	6.16%	0.166%
324	16.266	16.233	16.321	VV	3390	128733	6.23%	0.168%
325	16.327	16.321	16.338	VV	1802	15002	0.73%	0.020%
326	16.341	16.338	16.368	VV	1516	25847	1.25%	0.034%
327	16.391	16.368	16.425	VV	2596	71646	3.47%	0.093%
328	16.432	16.425	16.470	VV	2142	47456	2.30%	0.062%
329	16.476	16.470	16.480	VV	1717	9201	0.45%	0.012%
330	16.529	16.480	16.554	VV	3157	103571	5.01%	0.135%
331	16.589	16.554	16.668	VV	14948	405870	19.65%	0.529%
332	16.694	16.668	16.701	VV	7794	101672	4.92%	0.132%
333	16.719	16.701	16.742	VV	13575	242179	11.73%	0.316%
334	16.749	16.742	16.825	VV	7698	176969	8.57%	0.231%
335	16.855	16.825	16.897	VV	4193	107682	5.21%	0.140%
336	16.902	16.897	16.909	VV	1811	10787	0.52%	0.014%
337	16.915	16.909	16.955	VV	1615	25655	1.24%	0.033%
338	16.981	16.955	17.013	VV	4608	85081	4.12%	0.111%
339	17.040	17.013	17.082	VV	8611	178924	8.66%	0.233%
340	17.106	17.082	17.139	VV	10831	219768	10.64%	0.286%
341	17.160	17.139	17.190	VV	7260	135276	6.55%	0.176%
342	17.212	17.190	17.218	VV	4057	48601	2.35%	0.063%
343	17.238	17.218	17.266	VV	8693	136152	6.59%	0.177%
344	17.270	17.266	17.279	VV	896	5932	0.29%	0.008%
345	17.289	17.279	17.297	VV	872	7883	0.38%	0.010%
346	17.325	17.297	17.332	VV	952	14993	0.73%	0.020%
347	17.347	17.332	17.357	VV	1254	14954	0.72%	0.019%
348	17.366	17.357	17.370	VV	1456	9416	0.46%	0.012%
349	17.379	17.370	17.439	VV	1632	38008	1.84%	0.050%

Sum of corrected areas: 76736388

rteres

FG052225.M Sat May 24 02:06:03 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG052325\
Data File : FG015901.D
Signal(s) : FID1A.ch
Acq On : 23 May 2025 15:55
Operator : YP\AJ
Sample : Q2100-03
Misc :
ALS Vial : 25 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: May 23 23:07:23 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

Instrument :
FID_G
ClientSampleId :
TP-21

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 05/27/2025
Supervised By :mohammad ahmed 05/28/2025

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
9) S TETRACOSANE-d50 (SURR...	14.985	1611928	13.152	ug/mlm
Target Compounds				

(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG052325\
Data File : FG015901.D
Signal(s) : FID1A.ch
Acq On : 23 May 2025 15:55
Operator : YP\AJ
Sample : Q2100-03
Misc :
ALS Vial : 25 Sample Multiplier: 1

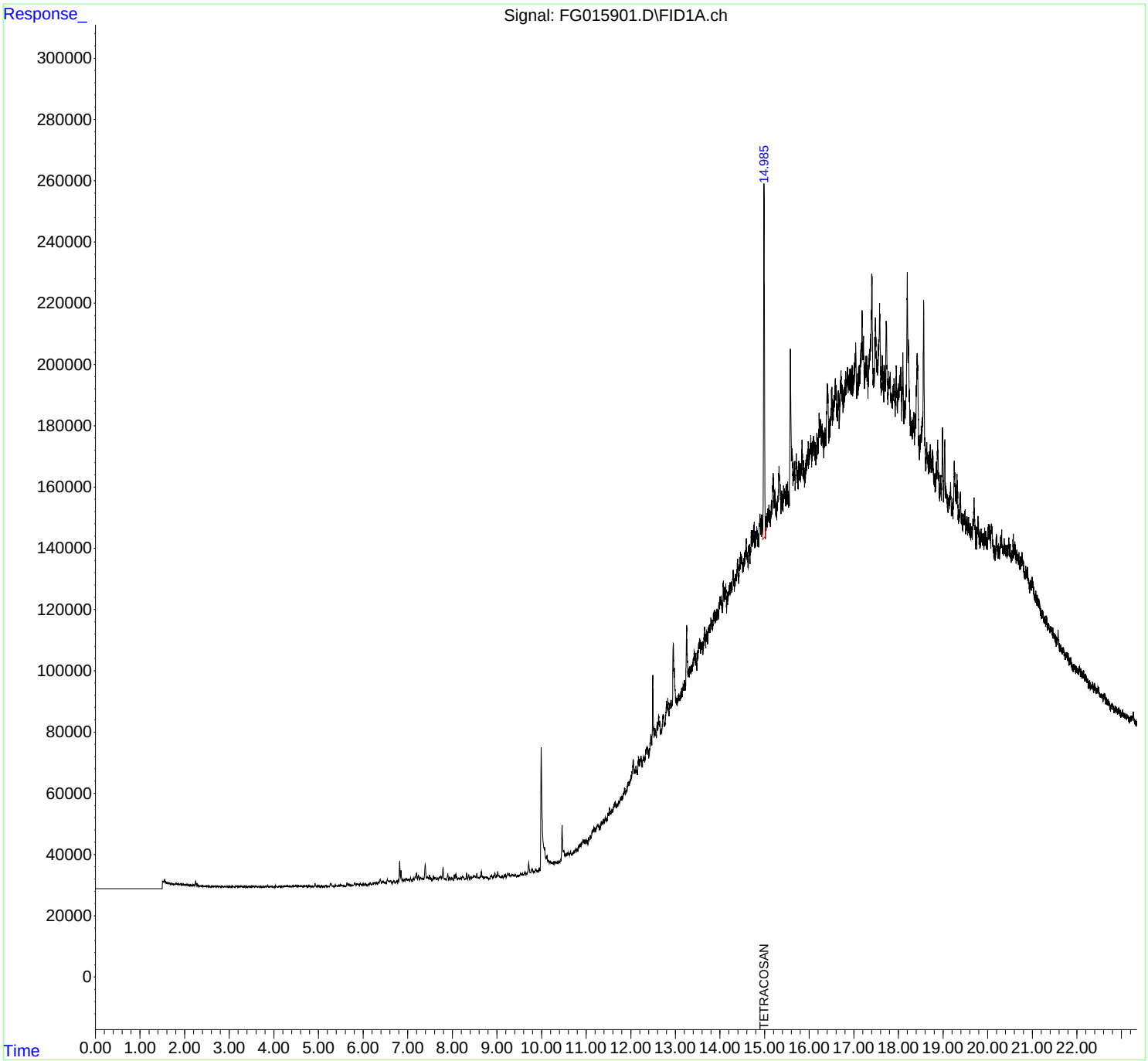
Integration File: autoint1.e
Quant Time: May 23 23:07:23 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG052225.M
Quant Title :
QLast Update : Thu May 22 06:20:25 2025
Response via : Initial Calibration
Integrator: ChemStation

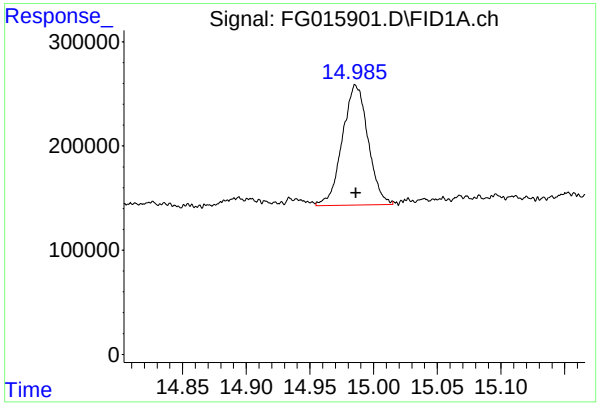
Volume Inj. : 1uL
Signal Phase : Rxi-1ms
Signal Info : 20mx0.18mmx0.18um

Instrument :
FID_G
ClientSampleId :
TP-21

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 05/27/2025
Supervised By :mohammad ahmed 05/28/2025





#9 TETRACOSANE-d50 (SURROGATE)

R.T.:	14.985 min
Delta R.T.:	-0.001 mir
Response:	1611928
Conc:	13.15 ug/m

Instrument :
FID_G
ClientSampleId :
TP-21

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 05/27/2025
Supervised By :mohammad ahmed 05/28/2025

11

Instrument :
FID_G
ClientSampleId :
TP-21

rteres

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 05/27/2025
Supervised By :mohammad ahmed 05/28/2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG05232
Data File : FG015901.D
Signal(s) : FID1A.ch
Acq On : 23 May 2025 15:55
Sample : Q2100-03
Misc :
ALS Vial : 25 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	4.339	4.323	4.351	BV	43	116	0.01%	0.000%
2	4.363	4.351	4.371	PV	130	1155	0.06%	0.003%
3	4.374	4.371	4.401	VV	177	2079	0.10%	0.005%
4	4.410	4.401	4.417	PV	227	1748	0.09%	0.004%
5	4.434	4.417	4.454	VV	335	5158	0.26%	0.012%
6	4.461	4.454	4.468	VV	253	1516	0.08%	0.004%
7	4.473	4.468	4.478	VV	205	1017	0.05%	0.002%
8	4.495	4.478	4.517	VV	462	7160	0.36%	0.017%
9	4.532	4.517	4.536	VV	266	2557	0.13%	0.006%
10	4.552	4.536	4.565	VV	366	4739	0.24%	0.011%
11	4.570	4.565	4.595	VV	258	3192	0.16%	0.008%
12	4.612	4.595	4.630	VV	313	4094	0.20%	0.010%
13	4.633	4.630	4.639	VV	155	614	0.03%	0.001%
14	4.645	4.639	4.649	PV	128	514	0.03%	0.001%
15	4.672	4.649	4.681	VV	327	3691	0.18%	0.009%
16	4.692	4.681	4.748	VV	388	9068	0.45%	0.021%
17	4.771	4.748	4.790	VV	342	4839	0.24%	0.011%
18	4.796	4.790	4.810	VV	185	1687	0.08%	0.004%
19	4.824	4.810	4.838	VV	186	2580	0.13%	0.006%
20	4.846	4.838	4.878	VV	213	3914	0.20%	0.009%
21	4.923	4.878	4.944	VV	1111	16245	0.81%	0.038%
22	4.952	4.944	4.958	VV	261	1653	0.08%	0.004%
23	4.960	4.958	4.976	VV	256	1750	0.09%	0.004%
24	4.995	4.976	5.013	VV	390	5199	0.26%	0.012%
25	5.019	5.013	5.043	VV	262	2479	0.12%	0.006%
26	5.076	5.043	5.092	VV	323	4772	0.24%	0.011%
27	5.098	5.092	5.115	VV	186	1285	0.06%	0.003%
28	5.126	5.115	5.137	PV	114	825	0.04%	0.002%
29	5.167	5.137	5.191	VV	556	9391	0.47%	0.022%
30	5.199	5.191	5.222	VV	247	2475	0.12%	0.006%
31	5.234	5.222	5.238	VV	208	1596	0.08%	0.004%
32	5.243	5.238	5.250	VV	193	1241	0.06%	0.003%
33	5.269	5.250	5.277	VV	1036	10485	0.52%	0.025%
34	5.286	5.277	5.353	VV	939	16266	0.81%	0.038%
35	5.376	5.353	5.418	PV	571	12321	0.62%	0.029%
36	5.454	5.418	5.459	VV	482	7663	0.38%	0.018%

Page 1

Instrument :
FID_G
ClientSampleId :
TP-21

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 05/27/2025
Supervised By :mohammad ahmed 05/28/2025

rteres

37	5.464	5.459	5.474	VV	412	3524	0.18%	0.008%
38	5.490	5.474	5.503	VV	604	8604		
39	5.510	5.503	5.543	VV	549	8498		
40	5.551	5.543	5.562	VV	205	1874		
41	5.566	5.562	5.572	VV	210	1096		
42	5.578	5.572	5.592	VV	204	1622		
43	5.603	5.592	5.618	VV	167	1628	0.08%	0.004%
44	5.639	5.618	5.658	VV	1167	16916	0.85%	0.040%
45	5.671	5.658	5.694	VV	726	11496	0.57%	0.027%
46	5.701	5.694	5.722	VV	475	6100	0.30%	0.014%
47	5.726	5.722	5.738	VV	298	2238	0.11%	0.005%
48	5.754	5.738	5.773	VV	421	7191	0.36%	0.017%
49	5.780	5.773	5.788	VV	354	2737	0.14%	0.006%
50	5.808	5.788	5.849	VV	964	21076	1.05%	0.050%
51	5.862	5.849	5.884	VV	756	12830	0.64%	0.030%
52	5.896	5.884	5.913	VV	666	8380	0.42%	0.020%
53	5.934	5.913	5.979	VV	841	19284	0.96%	0.045%
54	6.001	5.979	6.027	VV	693	12854	0.64%	0.030%
55	6.038	6.027	6.052	VV	564	7249	0.36%	0.017%
56	6.062	6.052	6.090	VV	532	6232	0.31%	0.015%
57	6.114	6.090	6.123	PV	533	5400	0.27%	0.013%
58	6.160	6.123	6.180	VV	1025	18157	0.91%	0.043%
59	6.194	6.180	6.200	VV	374	3611	0.18%	0.009%
60	6.219	6.200	6.231	VV	706	9836	0.49%	0.023%
61	6.261	6.231	6.282	VV	950	21309	1.07%	0.050%
62	6.295	6.282	6.330	VV	936	17191	0.86%	0.041%
63	6.346	6.330	6.361	VV	945	13530	0.68%	0.032%
64	6.385	6.361	6.410	VV	1825	37746	1.89%	0.089%
65	6.451	6.410	6.478	VV	1158	37370	1.87%	0.088%
66	6.485	6.478	6.495	VV	698	6588	0.33%	0.016%
67	6.497	6.495	6.511	VV	650	5442	0.27%	0.013%
68	6.543	6.511	6.591	VV	1657	51285	2.56%	0.121%
69	6.618	6.591	6.651	VV	1224	32958	1.65%	0.078%
70	6.696	6.651	6.715	VV	1186	30214	1.51%	0.071%
71	6.763	6.715	6.776	VV	1095	28728	1.44%	0.068%
72	6.791	6.776	6.801	VV	1304	14173	0.71%	0.033%
73	6.821	6.801	6.838	VV	7438	90378	4.52%	0.213%
74	6.851	6.838	6.879	VV	4450	60236	3.01%	0.142%
75	6.894	6.879	6.907	VV	1574	21236	1.06%	0.050%
76	6.926	6.907	6.938	VV	1262	20442	1.02%	0.048%
77	6.969	6.938	6.997	VV	1657	47666	2.38%	0.112%
78	7.008	6.997	7.017	VV	1360	15679	0.78%	0.037%
79	7.027	7.017	7.045	VV	1348	18487	0.92%	0.044%
80	7.065	7.045	7.086	VV	1730	31610	1.58%	0.075%
81	7.095	7.086	7.108	VV	1147	12534	0.63%	0.030%
82	7.127	7.108	7.147	VV	1737	29609	1.48%	0.070%
83	7.166	7.147	7.175	VV	2122	27363	1.37%	0.065%
84	7.198	7.175	7.220	VV	3205	63170	3.16%	0.149%
85	7.240	7.220	7.269	VV	2481	51731	2.59%	0.122%
86	7.288	7.269	7.311	VV	1801	38929	1.95%	0.092%
87	7.324	7.311	7.335	VV	1498	19746	0.99%	0.047%
88	7.346	7.335	7.362	VV	1508	21206	1.06%	0.050%
89	7.394	7.362	7.425	VV	5990	116746	5.83%	0.275%

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90	7.444	7.425	7.469	VV	1985	43587	2.18%	0.103%
91	7.489	7.469	7.507	VV	2468	39162		
92	7.521	7.507	7.542	VV	1251	22403		
93	7.546	7.542	7.551	VV	804	3910		
94	7.575	7.551	7.592	VV	1657	32360		
95	7.596	7.592	7.610	VV	1411	14261		
96	7.620	7.610	7.645	VV	1595	25279	1.26%	0.060%
97	7.666	7.645	7.688	VV	1376	28473	1.42%	0.067%
98	7.706	7.688	7.718	VV	1617	23988	1.20%	0.057%
99	7.721	7.718	7.727	VV	1444	7306	0.37%	0.017%
100	7.745	7.727	7.768	VV	1971	37521	1.88%	0.089%
101	7.793	7.768	7.821	VV	4752	76019	3.80%	0.179%
102	7.836	7.821	7.859	VV	1190	19134	0.96%	0.045%
103	7.899	7.859	7.922	VV	2643	49505	2.47%	0.117%
104	7.952	7.922	7.972	VV	1356	29179	1.46%	0.069%
105	7.991	7.972	8.024	VV	1126	22586	1.13%	0.053%
106	8.045	8.024	8.062	VV	2054	28750	1.44%	0.068%
107	8.080	8.062	8.121	VV	2298	47779	2.39%	0.113%
108	8.145	8.121	8.169	VV	980	22560	1.13%	0.053%
109	8.189	8.169	8.209	VV	1020	20109	1.01%	0.047%
110	8.228	8.209	8.243	VV	1516	22955	1.15%	0.054%
111	8.252	8.243	8.276	VV	1234	16515	0.83%	0.039%
112	8.287	8.276	8.301	VV	702	7923	0.40%	0.019%
113	8.320	8.301	8.346	VV	2383	33785	1.69%	0.080%
114	8.369	8.346	8.395	VV	1852	30474	1.52%	0.072%
115	8.410	8.395	8.431	VV	1138	17692	0.88%	0.042%
116	8.442	8.431	8.450	VV	956	9633	0.48%	0.023%
117	8.472	8.450	8.486	VV	1302	24801	1.24%	0.059%
118	8.502	8.486	8.532	VV	1472	31376	1.57%	0.074%
119	8.550	8.532	8.570	VV	2135	31879	1.59%	0.075%
120	8.576	8.570	8.607	VV	881	15039	0.75%	0.035%
121	8.652	8.607	8.670	VV	2770	55077	2.75%	0.130%
122	8.675	8.670	8.715	VV	1059	20370	1.02%	0.048%
123	8.751	8.715	8.769	VV	924	22754	1.14%	0.054%
124	8.780	8.769	8.818	VV	705	12733	0.64%	0.030%
125	8.832	8.818	8.847	PV	416	4496	0.22%	0.011%
126	8.884	8.847	8.907	VV	1258	31241	1.56%	0.074%
127	8.930	8.907	8.937	VV	959	14381	0.72%	0.034%
128	8.953	8.937	8.978	VV	2017	28870	1.44%	0.068%
129	8.993	8.978	9.001	VV	950	10598	0.53%	0.025%
130	9.018	9.001	9.036	VV	2334	32520	1.63%	0.077%
131	9.042	9.036	9.072	VV	1076	15754	0.79%	0.037%
132	9.087	9.072	9.100	VV	557	6957	0.35%	0.016%
133	9.118	9.100	9.137	VV	1007	12384	0.62%	0.029%
134	9.159	9.137	9.168	VV	722	9273	0.46%	0.022%
135	9.190	9.168	9.208	VV	1310	19190	0.96%	0.045%
136	9.245	9.208	9.296	VV	1533	50543	2.53%	0.119%
137	9.313	9.296	9.322	VV	681	9785	0.49%	0.023%
138	9.340	9.322	9.360	VV	976	18379	0.92%	0.043%
139	9.379	9.360	9.390	VV	773	12841	0.64%	0.030%
140	9.413	9.390	9.440	VV	972	18787	0.94%	0.044%
141	9.460	9.440	9.475	PV	517	6604	0.33%	0.016%

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142	9.488	9.475	9.509	VV	388	5576	0.28%	0.013%
143	9.534	9.509	9.555	VV	859	14779	[illegible]	
144	9.569	9.555	9.596	VV	667	9853	[illegible]	
145	9.632	9.596	9.650	VV	1088	18621	[illegible]	
146	9.666	9.650	9.673	VV	443	4961	[illegible]	
147	9.714	9.673	9.749	VV	3847	66622	[illegible]	
148	9.790	9.749	9.815	VV	1484	35164	1.76%	0.083%
149	9.819	9.815	9.825	VV	418	2337	0.12%	0.006%
150	9.830	9.825	9.836	VV	476	2671	0.13%	0.006%
151	9.871	9.836	9.887	VV	1273	22045	1.10%	0.052%
152	9.892	9.887	9.912	VV	686	6035	0.30%	0.014%
153	9.947	9.912	9.965	PV	1062	14275	0.71%	0.034%
154	9.994	9.965	10.098	VV	40085	968420	48.40%	2.285%
155	10.116	10.098	10.147	VV	3987	90599	4.53%	0.214%
156	10.152	10.147	10.177	VV	2226	32688	1.63%	0.077%
157	10.191	10.177	10.200	VV	1669	22125	1.11%	0.052%
158	10.204	10.200	10.240	VV	1469	26558	1.33%	0.063%
159	10.245	10.240	10.264	VV	769	9303	0.46%	0.022%
160	10.269	10.264	10.273	VV	608	3225	0.16%	0.008%
161	10.297	10.273	10.337	VV	887	21148	1.06%	0.050%
162	10.352	10.337	10.379	VV	540	8943	0.45%	0.021%
163	10.383	10.379	10.386	VV	213	590	0.03%	0.001%
164	10.391	10.386	10.398	VV	161	737	0.04%	0.002%
165	10.427	10.398	10.436	PV	553	6422	0.32%	0.015%
166	10.461	10.436	10.489	VV	11602	162365	8.11%	0.383%
167	10.499	10.489	10.522	VV	3097	46339	2.32%	0.109%
168	10.543	10.522	10.557	VV	1422	24437	1.22%	0.058%
169	10.590	10.557	10.624	VV	1567	44981	2.25%	0.106%
170	10.651	10.624	10.673	VV	1552	23528	1.18%	0.056%
171	10.697	10.673	10.704	PV	569	7129	0.36%	0.017%
172	10.717	10.704	10.726	VV	703	5031	0.25%	0.012%
173	10.756	10.726	10.762	VV	866	13732	0.69%	0.032%
174	10.780	10.762	10.802	VV	935	17033	0.85%	0.040%
175	10.830	10.802	10.834	PV	1129	12454	0.62%	0.029%
176	10.863	10.834	10.872	VV	1657	29980	1.50%	0.071%
177	10.876	10.872	10.887	VV	1146	9329	0.47%	0.022%
178	10.907	10.887	10.913	VV	1635	20221	1.01%	0.048%
179	10.929	10.913	10.958	VV	2311	43865	2.19%	0.104%
180	10.978	10.958	11.002	VV	1693	32587	1.63%	0.077%
181	11.017	11.002	11.037	VV	1245	14983	0.75%	0.035%
182	11.056	11.037	11.067	PV	1465	16978	0.85%	0.040%
183	11.091	11.067	11.114	VV	1568	30002	1.50%	0.071%
184	11.142	11.114	11.156	VV	2517	46792	2.34%	0.110%
185	11.179	11.156	11.193	VV	2782	47337	2.37%	0.112%
186	11.199	11.193	11.208	VV	1679	13489	0.67%	0.032%
187	11.212	11.208	11.216	VV	1454	5617	0.28%	0.013%
188	11.257	11.216	11.261	VV	2395	51569	2.58%	0.122%
189	11.266	11.261	11.274	VV	2213	15457	0.77%	0.036%
190	11.285	11.274	11.305	VV	1460	19857	0.99%	0.047%
191	11.341	11.305	11.358	PV	2148	36123	1.81%	0.085%
192	11.396	11.358	11.410	VV	1643	37668	1.88%	0.089%
193	11.426	11.410	11.444	VV	2050	26965	1.35%	0.064%
194	11.450	11.444	11.474	VV	1081	11878	0.59%	0.028%

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195	11.486	11.474	11.490	PV	2171	13276	0.66%	0.031%
196	11.505	11.490	11.513	VV	1801	21465		
197	11.529	11.513	11.547	VV	2833	40925		
198	11.564	11.547	11.570	VV	1592	16696		
199	11.577	11.570	11.581	VV	1094	6265		
200	11.587	11.581	11.601	VV	1022	9675		
201	11.649	11.601	11.677	VV	2617	71190	3.56%	0.168%
202	11.695	11.677	11.703	VV	990	7765	0.39%	0.018%
203	11.706	11.703	11.710	VV	656	1586	0.08%	0.004%
204	11.725	11.710	11.729	PV	1051	7124	0.36%	0.017%
205	11.733	11.729	11.748	VV	1133	8207	0.41%	0.019%
206	11.757	11.748	11.761	VV	867	3865	0.19%	0.009%
207	11.775	11.761	11.786	VV	1130	11498	0.57%	0.027%
208	11.800	11.786	11.816	VV	1219	12285	0.61%	0.029%
209	11.858	11.816	11.862	PV	2663	34497	1.72%	0.081%
210	11.866	11.862	11.889	VV	2249	16902	0.84%	0.040%
211	11.893	11.889	11.898	VV	639	2257	0.11%	0.005%
212	11.905	11.898	11.912	VV	742	3910	0.20%	0.009%
213	11.932	11.912	11.939	VV	2100	26397	1.32%	0.062%
214	11.943	11.939	11.967	VV	2519	32009	1.60%	0.076%
215	12.003	11.967	12.007	VV	3409	46584	2.33%	0.110%
216	12.033	12.007	12.038	VV	3746	56491	2.82%	0.133%
217	12.056	12.038	12.076	VV	7229	109870	5.49%	0.259%
218	12.081	12.076	12.085	VV	3276	14493	0.72%	0.034%
219	12.113	12.085	12.148	VV	3604	86500	4.32%	0.204%
220	12.173	12.148	12.189	VV	5417	68953	3.45%	0.163%
221	12.196	12.189	12.200	VV	3174	17962	0.90%	0.042%
222	12.231	12.200	12.255	VV	4362	95651	4.78%	0.226%
223	12.283	12.255	12.296	VV	3049	44472	2.22%	0.105%
224	12.300	12.296	12.312	VV	1815	14115	0.71%	0.033%
225	12.336	12.312	12.340	VV	4131	37155	1.86%	0.088%
226	12.365	12.340	12.385	VV	4207	86675	4.33%	0.205%
227	12.388	12.385	12.395	VV	2687	11775	0.59%	0.028%
228	12.398	12.395	12.404	VV	1743	6764	0.34%	0.016%
229	12.451	12.404	12.470	PV	5878	125939	6.29%	0.297%
230	12.495	12.470	12.522	VV	24525	347241	17.35%	0.819%
231	12.542	12.522	12.562	VV	5793	113755	5.69%	0.268%
232	12.567	12.562	12.575	VV	4176	23927	1.20%	0.056%
233	12.594	12.575	12.607	VV	6846	95920	4.79%	0.226%
234	12.623	12.607	12.649	VV	8124	149020	7.45%	0.352%
235	12.653	12.649	12.677	VV	5667	47873	2.39%	0.113%
236	12.690	12.677	12.694	VV	2269	17907	0.89%	0.042%
237	12.725	12.694	12.764	VV	6388	153514	7.67%	0.362%
238	12.800	12.764	12.819	VV	7874	172763	8.63%	0.408%
239	12.832	12.819	12.856	VV	8922	132748	6.63%	0.313%
240	12.883	12.856	12.891	VV	7152	108981	5.45%	0.257%
241	12.896	12.891	12.907	VV	5813	52117	2.60%	0.123%
242	12.917	12.907	12.930	VV	6101	68585	3.43%	0.162%
243	12.953	12.930	12.973	VV	23885	392004	19.59%	0.925%
244	12.977	12.973	13.007	VV	15368	180224	9.01%	0.425%
245	13.011	13.007	13.017	VV	4763	24429	1.22%	0.058%
246	13.026	13.017	13.042	VV	4311	49451	2.47%	0.117%

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247	13.058	13.042	13.063	VV	4607	36313	1.81%	0.086%
248	13.078	13.063	13.099	VV	4460	70396		
249	13.120	13.099	13.132	VV	3726	59333		
250	13.140	13.132	13.154	VV	5116	44069		
251	13.177	13.154	13.187	VV	4736	77984		
252	13.203	13.187	13.222	VV	5903	82464		
253	13.252	13.222	13.291	VV	22252	460231	23.00%	1.086%
254	13.295	13.291	13.318	VV	7116	102473	5.12%	0.242%
255	13.324	13.318	13.329	VV	7597	41494	2.07%	0.098%
256	13.332	13.329	13.351	VV	5995	74131	3.70%	0.175%
257	13.359	13.351	13.364	VV	7116	43110	2.15%	0.102%
258	13.376	13.364	13.381	VV	6595	56543	2.83%	0.133%
259	13.424	13.381	13.449	VV	9960	304615	15.22%	0.719%
260	13.460	13.449	13.481	VV	7828	108741	5.43%	0.257%
261	13.501	13.481	13.509	VV	8316	105500	5.27%	0.249%
262	13.545	13.509	13.567	VV	11449	307466	15.37%	0.725%
263	13.608	13.567	13.618	VV	8827	235843	11.79%	0.556%
264	13.622	13.618	13.626	VV	7212	29203	1.46%	0.069%
265	13.657	13.626	13.665	VV	12326	217947	10.89%	0.514%
266	13.668	13.665	13.682	VV	9704	73727	3.68%	0.174%
267	13.697	13.682	13.708	VV	10033	127505	6.37%	0.301%
268	13.716	13.708	13.724	VV	9389	76114	3.80%	0.180%
269	13.750	13.724	13.766	VV	10407	225583	11.27%	0.532%
270	13.771	13.766	13.786	VV	9606	106945	5.34%	0.252%
271	13.797	13.786	13.806	VV	11926	122141	6.10%	0.288%
272	13.807	13.806	13.816	VV	10354	55266	2.76%	0.130%
273	13.819	13.816	13.838	VV	10684	120192	6.01%	0.284%
274	13.858	13.838	13.867	VV	12226	183679	9.18%	0.433%
275	13.880	13.867	13.896	VV	12439	169876	8.49%	0.401%
276	13.906	13.896	13.921	VV	10724	143861	7.19%	0.339%
277	13.932	13.921	13.943	VV	10590	132601	6.63%	0.313%
278	13.952	13.943	13.957	VV	10323	75238	3.76%	0.178%
279	13.979	13.957	13.987	VV	12592	186006	9.30%	0.439%
280	13.999	13.987	14.007	VV	14001	150709	7.53%	0.356%
281	14.010	14.007	14.058	VV	13740	344243	17.20%	0.812%
282	14.076	14.058	14.094	VV	17354	281121	14.05%	0.663%
283	14.099	14.094	14.114	VV	14555	144412	7.22%	0.341%
284	14.128	14.114	14.150	VV	14937	247951	12.39%	0.585%
285	14.159	14.150	14.169	VV	10565	104836	5.24%	0.247%
286	14.177	14.169	14.182	VV	11208	79040	3.95%	0.186%
287	14.226	14.182	14.241	VV	13252	393774	19.68%	0.929%
288	14.257	14.241	14.270	VV	12711	188660	9.43%	0.445%
289	14.295	14.270	14.312	VV	15289	322483	16.12%	0.761%
290	14.316	14.312	14.322	VV	11078	57583	2.88%	0.136%
291	14.349	14.322	14.352	VV	12986	197418	9.87%	0.466%
292	14.356	14.352	14.366	VV	12481	100641	5.03%	0.237%
293	14.379	14.366	14.384	VV	13853	135042	6.75%	0.319%
294	14.395	14.384	14.417	VV	16927	259748	12.98%	0.613%
295	14.449	14.417	14.452	VV	15805	252980	12.64%	0.597%
296	14.459	14.452	14.467	VV	17742	137165	6.86%	0.324%
297	14.471	14.467	14.506	VV	15592	325631	16.27%	0.768%
298	14.513	14.506	14.517	VV	12815	75061	3.75%	0.177%
299	14.562	14.517	14.567	VV	14409	376643	18.82%	0.889%

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Instrument :
FID_G
ClientSampleId :
TP-21

rteres

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 05/27/2025
Supervised By :mohammad ahmed 05/28/2025

300	14.588	14.567	14.605	VV	19204	358218	17.90%	0.845%
301	14.611	14.605	14.629	VV	13378	165194	8	
302	14.659	14.629	14.674	VV	14616	342663	17	
303	14.699	14.674	14.715	VV	18381	364763	18	
304	14.767	14.715	14.794	VV	20337	726729	36	
305	14.796	14.794	14.799	VV	15835	49660	2	
306	14.826	14.799	14.849	VV	17146	420963	21.04%	0.993%
307	14.854	14.849	14.865	VV	13405	115199	5.76%	0.272%
308	14.894	14.865	14.930	VV	19158	586442	29.31%	1.384%
309	14.934	14.930	14.954	VV	18042	212102	10.60%	0.500%
310	14.986	14.954	15.020	VV	124985	2000850	100.00%	4.721%
311	15.027	15.020	15.032	VV	14868	92215	4.61%	0.218%
312	15.054	15.032	15.060	VV	14500	222978	11.14%	0.526%
313	15.096	15.060	15.104	VV	17019	385220	19.25%	0.909%
314	15.110	15.104	15.127	VV	14697	189609	9.48%	0.447%
315	15.152	15.127	15.170	VV	17349	372936	18.64%	0.880%
316	15.193	15.170	15.219	VV	25481	572207	28.60%	1.350%
317	15.227	15.219	15.266	VV	17591	407331	20.36%	0.961%
318	15.271	15.266	15.274	VV	13097	61076	3.05%	0.144%
319	15.322	15.274	15.344	VV	24627	722247	36.10%	1.704%
320	15.348	15.344	15.369	VV	17568	200718	10.03%	0.474%
321	15.386	15.369	15.415	VV	14401	314799	15.73%	0.743%
322	15.427	15.415	15.470	VV	15326	415895	20.79%	0.981%
323	15.490	15.470	15.499	VV	14789	206805	10.34%	0.488%
324	15.515	15.499	15.524	VV	15187	169400	8.47%	0.400%
325	15.529	15.524	15.538	VV	11356	80575	4.03%	0.190%
326	15.577	15.538	15.639	VV	56909	1464655	73.20%	3.456%
327	15.644	15.639	15.649	VV	13931	88387	4.42%	0.209%
328	15.664	15.649	15.685	VV	18070	293788	14.68%	0.693%
329	15.711	15.685	15.735	VV	18642	435697	21.78%	1.028%
330	15.741	15.735	15.749	VV	13103	93648	4.68%	0.221%
331	15.766	15.749	15.777	VV	15687	198275	9.91%	0.468%
332	15.782	15.777	15.791	VV	12347	92871	4.64%	0.219%
333	15.797	15.791	15.808	VV	14342	118365	5.92%	0.279%
334	15.838	15.808	15.864	VV	20216	450027	22.49%	1.062%
335	15.870	15.864	15.880	VV	13599	110722	5.53%	0.261%
336	15.887	15.880	15.896	VV	10345	73475	3.67%	0.173%
337	15.927	15.896	15.933	VV	12462	195037	9.75%	0.460%
338	15.940	15.933	15.945	VV	11577	80822	4.04%	0.191%
339	15.978	15.945	15.984	VV	15876	282185	14.10%	0.666%
340	15.989	15.984	15.997	VV	12841	88924	4.44%	0.210%
341	16.034	15.997	16.054	VV	16238	455491	22.76%	1.075%
342	16.108	16.054	16.134	VV	14162	571526	28.56%	1.349%
343	16.139	16.134	16.149	VV	12281	85867	4.29%	0.203%
344	16.173	16.149	16.204	VV	14663	362671	18.13%	0.856%
345	16.226	16.204	16.239	VV	18003	315746	15.78%	0.745%
346	16.249	16.239	16.279	VV	17917	333001	16.64%	0.786%
347	16.292	16.279	16.324	VV	15160	288683	14.43%	0.681%
348	16.355	16.324	16.371	VV	13028	259634	12.98%	0.613%
349	16.414	16.371	16.440	VV	24564	665677	33.27%	1.571%
350	16.461	16.440	16.467	VV	10525	167196	8.36%	0.394%
351	16.505	16.467	16.525	VV	21523	496181	24.80%	1.171%

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Instrument :
FID_G
ClientSampleId :
TP-21

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 05/27/2025
Supervised By :mohammad ahmed 05/28/2025

A B C D E F G H I J

rteres

352	16.586	16.525	16.635	VV	21821	1030841	51.52%	2.432%
353	16.660	16.635	16.677	VV	16734	306734	15	
354	16.714	16.677	16.759	VV	20872	718556	35	
355	16.797	16.759	16.809	VV	17754	398134	19	
356	16.816	16.809	16.829	VV	14561	181441	9	
357	16.858	16.829	16.867	VV	18999	373148	18	
358	16.877	16.867	16.890	VV	16710	198931	9.94%	0.469%
359	16.936	16.890	16.957	VV	17739	557811	27.88%	1.316%
360	16.968	16.957	16.980	VV	15787	181330	9.06%	0.428%
361	17.004	16.980	17.012	VV	15611	255172	12.75%	0.602%
362	17.043	17.012	17.070	VV	20204	516775	25.83%	1.219%
363	17.084	17.070	17.094	VV	12164	124040	6.20%	0.293%
364	17.185	17.094	17.203	VV	28783	1022385	51.10%	2.412%
365	17.214	17.203	17.249	VV	20719	354385	17.71%	0.836%
366	17.267	17.249	17.315	VV	12770	357369	17.86%	0.843%
367	17.405	17.315	17.435	PV	34698	1060709	53.01%	2.503%
368	17.445	17.435	17.459	VV	3367	49501	2.47%	0.117%
369	17.484	17.459	17.500	PBA	14739	286339	14.31%	0.676%

Sum of corrected areas: 42382057

FG052225.M Sat May 24 02:07:56 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG052325\
Data File : FG015902.D
Signal(s) : FID1A.ch
Acq On : 23 May 2025 16:24
Operator : YP\AJ
Sample : Q2100-04
Misc :
ALS Vial : 26 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
TP-45

Integration File: autoint1.e
Quant Time: May 23 23:07:40 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...	14.982	1797382	14.665 ug/ml
Target Compounds			

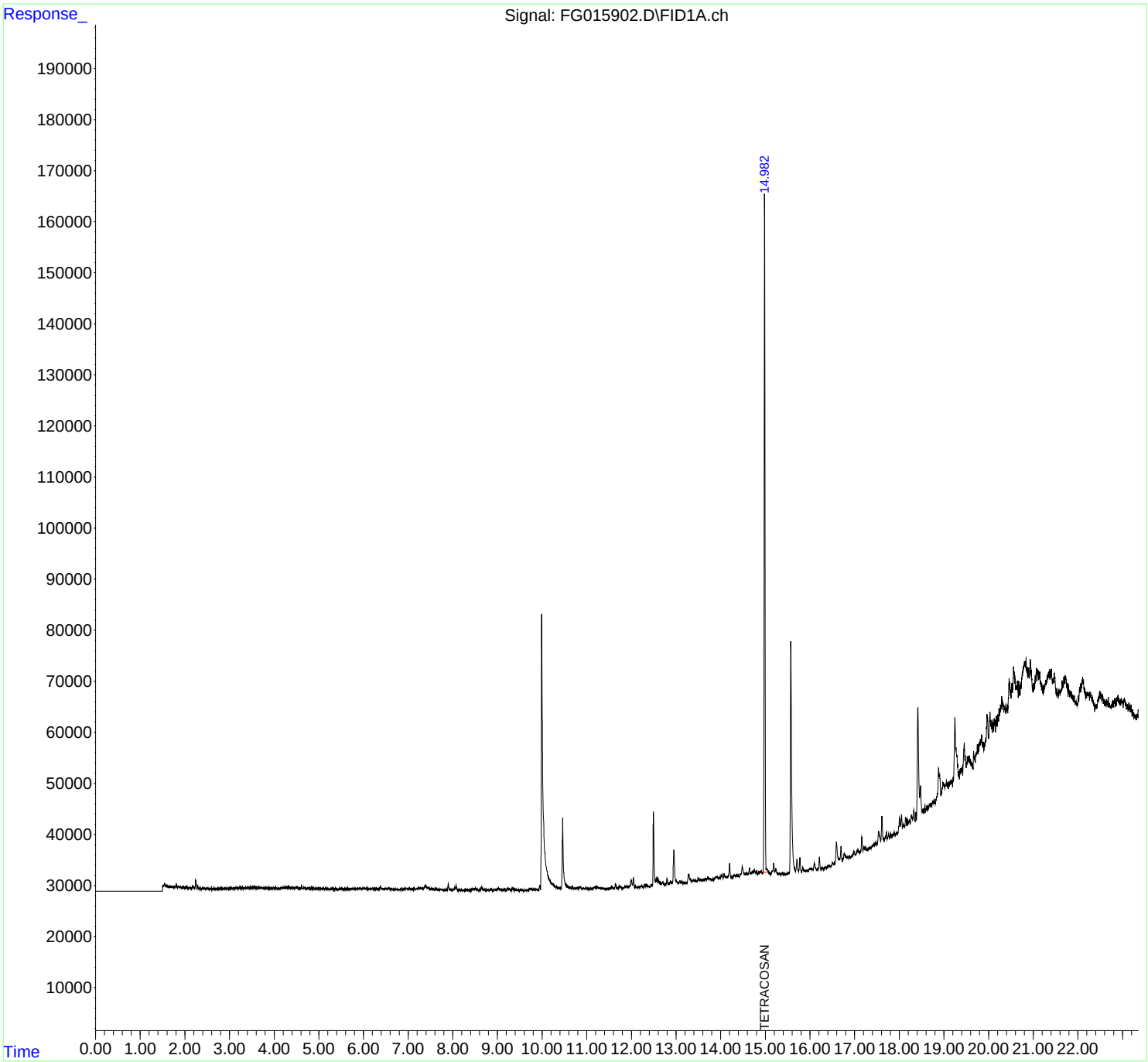
(f)=RT Delta > 1/2 Window (m)=manual int.

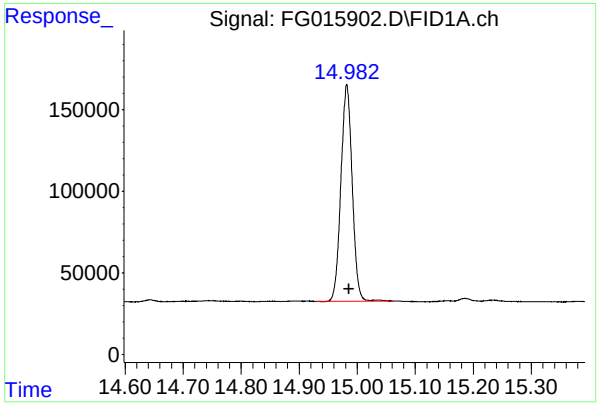
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG052325\
Data File : FG015902.D
Signal(s) : FID1A.ch
Acq On : 23 May 2025 16:24
Operator : YP\AJ
Sample : Q2100-04
Misc :
ALS Vial : 26 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
TP-45

Integration File: autoint1.e
Quant Time: May 23 23:07:40 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.: 14.982 min
Delta R.T.: -0.004 mi
Response: 1797382
Conc: 14.67 ug/m

Instrument :
FID_G
ClientSampleId :
TP-45

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A B C D E F G H I J

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG052325\
Data File : FG015902.D
Signal(s) : FID1A.ch
Acq On : 23 May 2025 16:24
Sample : Q2100-04
Misc :
ALS Vial : 26 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	4.311	4.300	4.357	BV	194	3243	0.18%	0.042%
2	4.360	4.357	4.370	VV	128	621	0.03%	0.008%
3	4.374	4.370	4.378	PV	110	282	0.02%	0.004%
4	4.383	4.378	4.389	VV	88	332	0.02%	0.004%
5	4.394	4.389	4.398	VV	90	329	0.02%	0.004%
6	4.402	4.398	4.407	VV	108	365	0.02%	0.005%
7	4.413	4.407	4.425	VV	115	744	0.04%	0.010%
8	4.433	4.425	4.457	VV	153	1304	0.07%	0.017%
9	4.461	4.457	4.474	VV	140	632	0.03%	0.008%
10	4.489	4.474	4.508	PV	245	2845	0.16%	0.037%
11	4.514	4.508	4.520	VV	149	835	0.05%	0.011%
12	4.523	4.520	4.528	VV	147	592	0.03%	0.008%
13	4.535	4.528	4.541	VV	136	710	0.04%	0.009%
14	4.549	4.541	4.562	VV	134	862	0.05%	0.011%
15	4.566	4.562	4.572	VV	92	319	0.02%	0.004%
16	4.579	4.572	4.593	VV	105	630	0.03%	0.008%
17	4.614	4.593	4.643	VV	498	6448	0.35%	0.084%
18	4.664	4.643	4.704	PV	263	5299	0.29%	0.069%
19	4.713	4.704	4.730	VV	143	1621	0.09%	0.021%
20	4.743	4.730	4.748	VV	165	1118	0.06%	0.015%
21	4.767	4.748	4.780	VV	188	2187	0.12%	0.028%
22	4.788	4.780	4.805	VV	127	1693	0.09%	0.022%
23	4.810	4.805	4.832	VV	159	1955	0.11%	0.025%
24	4.843	4.832	4.853	VV	178	1628	0.09%	0.021%
25	4.858	4.853	4.863	VV	143	746	0.04%	0.010%
26	4.874	4.863	4.882	VV	215	1541	0.08%	0.020%
27	4.886	4.882	4.893	VV	210	848	0.05%	0.011%
28	4.896	4.893	4.914	VV	171	1477	0.08%	0.019%
29	4.916	4.914	4.947	VV	175	2487	0.14%	0.032%
30	4.959	4.947	4.965	VV	193	1559	0.09%	0.020%
31	4.967	4.965	4.974	VV	209	802	0.04%	0.010%
32	4.979	4.974	4.983	VV	183	770	0.04%	0.010%
33	4.987	4.983	4.993	VV	167	780	0.04%	0.010%
34	4.998	4.993	5.027	VV	177	2681	0.15%	0.035%
35	5.033	5.027	5.039	VV	140	789	0.04%	0.010%
36	5.043	5.039	5.050	VV	115	554	0.03%	0.007%

rteres

37	5.053	5.050	5.079	VV	94	1441	0.08%	0.019%
38	5.084	5.079	5.090	VV	153	593	0.03%	0.008%
39	5.098	5.090	5.106	VV	150	817	0.04%	0.011%
40	5.113	5.106	5.125	VV	124	980	0.05%	0.013%
41	5.154	5.125	5.173	VV	186	3548	0.19%	0.046%
42	5.175	5.173	5.182	VV	128	602	0.03%	0.008%
43	5.197	5.182	5.217	VV	186	1773	0.10%	0.023%
44	5.220	5.217	5.238	VV	131	1109	0.06%	0.014%
45	5.244	5.238	5.258	VV	119	1019	0.06%	0.013%
46	5.261	5.258	5.272	VV	154	815	0.04%	0.011%
47	5.277	5.272	5.283	VV	115	433	0.02%	0.006%
48	5.298	5.283	5.327	VV	167	2030	0.11%	0.026%
49	5.336	5.327	5.343	PV	122	655	0.04%	0.008%
50	5.348	5.343	5.355	VV	121	610	0.03%	0.008%
51	5.366	5.355	5.382	PV	174	1607	0.09%	0.021%
52	5.385	5.382	5.394	VV	158	744	0.04%	0.010%
53	5.398	5.394	5.403	VV	154	618	0.03%	0.008%
54	5.408	5.403	5.422	VV	152	1079	0.06%	0.014%
55	5.428	5.422	5.445	VV	115	1127	0.06%	0.015%
56	5.450	5.445	5.454	VV	112	549	0.03%	0.007%
57	5.462	5.454	5.467	VV	137	1057	0.06%	0.014%
58	5.473	5.467	5.479	VV	161	1002	0.05%	0.013%
59	5.492	5.479	5.496	VV	244	1556	0.08%	0.020%
60	5.518	5.496	5.524	VV	193	2235	0.12%	0.029%
61	5.529	5.524	5.540	VV	153	1302	0.07%	0.017%
62	5.545	5.540	5.560	VV	131	1212	0.07%	0.016%
63	5.563	5.560	5.568	VV	110	472	0.03%	0.006%
64	5.571	5.568	5.589	VV	165	1330	0.07%	0.017%
65	5.595	5.589	5.607	VV	172	1142	0.06%	0.015%
66	5.618	5.607	5.680	VV	137	4202	0.23%	0.054%
67	5.692	5.680	5.705	VV	132	1356	0.07%	0.018%
68	5.715	5.705	5.720	VV	123	806	0.04%	0.010%
69	5.727	5.720	5.732	VV	159	676	0.04%	0.009%
70	5.745	5.732	5.754	VV	157	1706	0.09%	0.022%
71	5.766	5.754	5.782	VV	187	2624	0.14%	0.034%
72	5.793	5.782	5.807	VV	240	2756	0.15%	0.036%
73	5.829	5.807	5.852	VV	278	5896	0.32%	0.076%
74	5.855	5.852	5.859	VV	255	895	0.05%	0.012%
75	5.864	5.859	5.870	VV	243	1447	0.08%	0.019%
76	5.877	5.870	5.888	VV	289	2531	0.14%	0.033%
77	5.897	5.888	5.905	VV	291	2697	0.15%	0.035%
78	5.912	5.905	5.945	VV	332	6287	0.34%	0.082%
79	5.950	5.945	5.981	VV	248	4907	0.27%	0.064%
80	5.986	5.981	6.014	VV	273	4721	0.26%	0.061%
81	6.021	6.014	6.029	VV	227	1901	0.10%	0.025%
82	6.035	6.029	6.044	VV	224	1786	0.10%	0.023%
83	6.050	6.044	6.073	VV	250	3561	0.19%	0.046%
84	6.078	6.073	6.081	VV	215	897	0.05%	0.012%
85	6.093	6.081	6.113	VV	279	3876	0.21%	0.050%
86	6.128	6.113	6.145	VV	233	3194	0.17%	0.041%
87	6.200	6.145	6.237	VV	278	11016	0.60%	0.143%
88	6.242	6.237	6.247	VV	220	1211	0.07%	0.016%
89	6.265	6.247	6.288	VV	250	5112	0.28%	0.066%

rteres

90	6.293	6.288	6.304	VV	236	1862	0.10%	0.024%
91	6.309	6.304	6.316	VV	219	1350	0.07%	0.018%
92	6.326	6.316	6.330	VV	277	1671	0.09%	0.022%
93	6.341	6.330	6.360	VV	259	3778	0.21%	0.049%
94	6.383	6.360	6.405	VV	836	12475	0.68%	0.162%
95	6.411	6.405	6.425	VV	226	2120	0.12%	0.027%
96	6.438	6.425	6.443	VV	231	2136	0.12%	0.028%
97	6.461	6.443	6.470	VV	254	3500	0.19%	0.045%
98	6.474	6.470	6.504	VV	249	3947	0.22%	0.051%
99	6.507	6.504	6.521	VV	202	1822	0.10%	0.024%
100	6.533	6.521	6.539	VV	236	1989	0.11%	0.026%
101	6.547	6.539	6.552	VV	295	1962	0.11%	0.025%
102	6.558	6.552	6.597	VV	321	6225	0.34%	0.081%
103	6.601	6.597	6.629	VV	204	2933	0.16%	0.038%
104	6.634	6.629	6.642	VV	211	1299	0.07%	0.017%
105	6.651	6.642	6.655	VV	155	1022	0.06%	0.013%
106	6.659	6.655	6.681	VV	199	2252	0.12%	0.029%
107	6.698	6.681	6.707	VV	186	2175	0.12%	0.028%
108	6.713	6.707	6.727	VV	166	1517	0.08%	0.020%
109	6.735	6.727	6.747	VV	169	1432	0.08%	0.019%
110	6.750	6.747	6.754	VV	150	476	0.03%	0.006%
111	6.758	6.754	6.769	VV	127	912	0.05%	0.012%
112	6.773	6.769	6.803	VV	143	1978	0.11%	0.026%
113	6.824	6.803	6.830	VV	183	1769	0.10%	0.023%
114	6.856	6.830	6.864	VV	295	3050	0.17%	0.040%
115	6.902	6.864	6.944	VV	299	10856	0.59%	0.141%
116	6.953	6.944	6.979	VV	334	6205	0.34%	0.080%
117	6.983	6.979	6.990	VV	334	2049	0.11%	0.027%
118	6.992	6.990	7.039	VV	309	7591	0.41%	0.098%
119	7.043	7.039	7.050	VV	225	1395	0.08%	0.018%
120	7.058	7.050	7.072	VV	216	2524	0.14%	0.033%
121	7.077	7.072	7.095	VV	221	2463	0.13%	0.032%
122	7.101	7.095	7.128	VV	224	3664	0.20%	0.048%
123	7.149	7.128	7.165	VV	228	4187	0.23%	0.054%
124	7.223	7.165	7.231	VV	385	10898	0.59%	0.141%
125	7.235	7.231	7.289	VV	368	12399	0.68%	0.161%
126	7.296	7.289	7.344	VV	425	11443	0.62%	0.148%
127	7.385	7.344	7.442	VV	871	35417	1.93%	0.459%
128	7.449	7.442	7.599	VV	543	27762	1.52%	0.360%
129	7.618	7.599	7.639	VV	249	4839	0.26%	0.063%
130	7.641	7.639	7.753	VV	340	9424	0.51%	0.122%
131	7.767	7.753	7.790	VV	157	2298	0.13%	0.030%
132	7.801	7.790	7.812	VV	137	1131	0.06%	0.015%
133	7.834	7.812	7.849	VV	131	1632	0.09%	0.021%
134	7.857	7.849	7.865	VV	135	810	0.04%	0.011%
135	7.901	7.865	7.985	VV	1300	24706	1.35%	0.320%
136	7.993	7.985	8.007	VV	95	1283	0.07%	0.017%
137	8.047	8.007	8.057	VV	494	7123	0.39%	0.092%
138	8.075	8.057	8.154	VV	1096	16963	0.93%	0.220%
139	8.197	8.154	8.229	VV	105	3189	0.17%	0.041%
140	8.283	8.229	8.306	PV	127	3019	0.16%	0.039%
141	8.319	8.306	8.360	VV	89	2164	0.12%	0.028%

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142	8.368	8.360	8.398	VV	61	1518	0.08%	0.020%
143	8.477	8.398	8.491	VV	377	10840	0.59%	0.141%
144	8.509	8.491	8.551	VV	409	9457	0.52%	0.123%
145	8.562	8.551	8.602	VV	198	3551	0.19%	0.046%
146	8.645	8.602	8.714	VV	631	19064	1.04%	0.247%
147	8.751	8.714	8.761	VV	165	3260	0.18%	0.042%
148	8.768	8.761	8.787	VV	150	1268	0.07%	0.016%
149	8.797	8.787	8.822	VV	103	1423	0.08%	0.018%
150	8.863	8.822	8.908	VV	294	7329	0.40%	0.095%
151	8.939	8.908	8.974	VV	245	5597	0.31%	0.073%
152	9.010	8.974	9.035	VV	408	9606	0.52%	0.125%
153	9.043	9.035	9.125	VV	310	9826	0.54%	0.127%
154	9.159	9.125	9.182	VV	240	4670	0.25%	0.061%
155	9.193	9.182	9.211	VV	158	2464	0.13%	0.032%
156	9.235	9.211	9.319	VV	496	16176	0.88%	0.210%
157	9.337	9.319	9.362	VV	424	7455	0.41%	0.097%
158	9.378	9.362	9.419	VV	385	8377	0.46%	0.109%
159	9.434	9.419	9.446	VV	168	1832	0.10%	0.024%
160	9.458	9.446	9.500	VV	115	2677	0.15%	0.035%
161	9.524	9.500	9.598	VV	319	6951	0.38%	0.090%
162	9.627	9.598	9.666	PV	112	2730	0.15%	0.035%
163	9.673	9.666	9.682	VV	108	634	0.03%	0.008%
164	9.726	9.682	9.827	VV	417	21183	1.16%	0.275%
165	9.839	9.827	9.858	VV	207	3273	0.18%	0.042%
166	9.871	9.858	9.897	VV	293	4280	0.23%	0.056%
167	9.900	9.897	9.922	VV	210	1638	0.09%	0.021%
168	9.948	9.922	9.965	VV	943	11630	0.63%	0.151%
169	9.993	9.965	10.407	VV	53967	1578314	86.14%	20.469%
170	10.415	10.407	10.429	VV	426	4527	0.25%	0.059%
171	10.461	10.429	10.621	VV	14160	302699	16.52%	3.926%
172	10.634	10.621	10.655	VV	470	7867	0.43%	0.102%
173	10.681	10.655	10.708	VV	664	13559	0.74%	0.176%
174	10.744	10.708	10.754	VV	325	7756	0.42%	0.101%
175	10.763	10.754	10.810	VV	319	9431	0.51%	0.122%
176	10.832	10.810	10.848	VV	535	9276	0.51%	0.120%
177	10.860	10.848	10.896	VV	590	10782	0.59%	0.140%
178	10.927	10.896	10.959	VV	333	8839	0.48%	0.115%
179	10.978	10.959	11.040	VV	295	9681	0.53%	0.126%
180	11.045	11.040	11.067	VV	166	1600	0.09%	0.021%
181	11.099	11.067	11.121	VV	251	4902	0.27%	0.064%
182	11.187	11.121	11.222	VV	520	19866	1.08%	0.258%
183	11.235	11.222	11.274	VV	609	12118	0.66%	0.157%
184	11.283	11.274	11.351	VV	299	10461	0.57%	0.136%
185	11.360	11.351	11.379	VV	198	2736	0.15%	0.035%
186	11.387	11.379	11.467	VV	211	4680	0.26%	0.061%
187	11.493	11.467	11.524	PV	155	3409	0.19%	0.044%
188	11.564	11.524	11.622	VV	514	12420	0.68%	0.161%
189	11.645	11.622	11.697	VV	996	17556	0.96%	0.228%
190	11.724	11.697	11.745	VV	533	8685	0.47%	0.113%
191	11.759	11.745	11.787	VV	508	6956	0.38%	0.090%
192	11.799	11.787	11.807	VV	124	1075	0.06%	0.014%
193	11.817	11.807	11.831	VV	119	1482	0.08%	0.019%
194	11.879	11.831	11.899	VV	439	12346	0.67%	0.160%

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195	11.912	11.899	11.935	VV	325	5548	0.30%	0.072%
196	11.953	11.935	11.965	VV	472	6385	0.35%	0.083%
197	11.993	11.965	12.029	VV	1642	37853	2.07%	0.491%
198	12.046	12.029	12.082	VV	2012	29779	1.63%	0.386%
199	12.091	12.082	12.110	VV	251	3480	0.19%	0.045%
200	12.119	12.110	12.173	VV	266	5674	0.31%	0.074%
201	12.234	12.173	12.267	VV	405	11227	0.61%	0.146%
202	12.294	12.267	12.307	VV	509	7600	0.41%	0.099%
203	12.329	12.307	12.374	VV	652	15215	0.83%	0.197%
204	12.386	12.374	12.415	VV	256	3968	0.22%	0.051%
205	12.439	12.415	12.465	PV	519	8216	0.45%	0.107%
206	12.493	12.465	12.540	VV	14631	197529	10.78%	2.562%
207	12.556	12.540	12.572	VV	1720	25336	1.38%	0.329%
208	12.587	12.572	12.639	VV	1793	43732	2.39%	0.567%
209	12.658	12.639	12.676	VV	789	14311	0.78%	0.186%
210	12.703	12.676	12.765	VV	752	24657	1.35%	0.320%
211	12.799	12.765	12.840	VV	1396	27095	1.48%	0.351%
212	12.877	12.840	12.904	VV	877	20673	1.13%	0.268%
213	12.950	12.904	13.064	VV	6835	160598	8.76%	2.083%
214	13.084	13.064	13.110	VV	717	13288	0.73%	0.172%
215	13.130	13.110	13.170	VV	649	13222	0.72%	0.171%
216	13.179	13.170	13.194	VV	207	2659	0.15%	0.034%
217	13.201	13.194	13.217	VV	280	2833	0.15%	0.037%
218	13.285	13.217	13.347	VV	1631	62594	3.42%	0.812%
219	13.377	13.347	13.397	VV	687	15942	0.87%	0.207%
220	13.405	13.397	13.422	VV	536	7413	0.40%	0.096%
221	13.435	13.422	13.470	VV	593	12251	0.67%	0.159%
222	13.494	13.470	13.534	VV	825	22573	1.23%	0.293%
223	13.552	13.534	13.588	VV	674	15730	0.86%	0.204%
224	13.623	13.588	13.637	VV	516	12753	0.70%	0.165%
225	13.652	13.637	13.697	VV	692	20349	1.11%	0.264%
226	13.729	13.697	13.793	VV	764	34554	1.89%	0.448%
227	13.819	13.793	13.830	VV	425	8247	0.45%	0.107%
228	13.895	13.830	13.909	VV	856	28559	1.56%	0.370%
229	13.916	13.909	13.967	VV	886	22779	1.24%	0.295%
230	14.032	13.967	14.055	VV	1089	39392	2.15%	0.511%
231	14.077	14.055	14.099	VV	1290	23663	1.29%	0.307%
232	14.111	14.099	14.159	VV	767	22946	1.25%	0.298%
233	14.198	14.159	14.264	VV	3206	70402	3.84%	0.913%
234	14.319	14.264	14.330	VV	789	26502	1.45%	0.344%
235	14.342	14.330	14.364	VV	771	13381	0.73%	0.174%
236	14.379	14.364	14.412	VV	680	18283	1.00%	0.237%
237	14.444	14.412	14.454	VV	955	18922	1.03%	0.245%
238	14.483	14.454	14.550	VV	2392	78591	4.29%	1.019%
239	14.571	14.550	14.615	VV	981	34391	1.88%	0.446%
240	14.643	14.615	14.674	VV	1978	43122	2.35%	0.559%
241	14.703	14.674	14.712	VV	1079	23166	1.26%	0.300%
242	14.748	14.712	14.788	VV	1422	52551	2.87%	0.682%
243	14.800	14.788	14.825	VV	1097	20649	1.13%	0.268%
244	14.858	14.825	14.869	VV	972	22586	1.23%	0.293%
245	14.899	14.869	14.907	VV	1084	22131	1.21%	0.287%
246	14.914	14.907	14.942	VV	1045	18136	0.99%	0.235%

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247	14.982	14.942	15.025	VV	133637	1832302	100.00%	23.763%
248	15.036	15.025	15.117	VV	1536	50129	2.74%	0.650%
249	15.155	15.117	15.165	VV	964	20213	1.10%	0.262%
250	15.186	15.165	15.214	VV	2478	42773	2.33%	0.555%
251	15.233	15.214	15.314	VV	1361	39655	2.16%	0.514%
252	15.329	15.314	15.354	VV	342	6410	0.35%	0.083%
253	15.380	15.354	15.441	VV	477	12003	0.66%	0.156%
254	15.447	15.441	15.464	VV	118	780	0.04%	0.010%
255	15.519	15.464	15.532	PV	237	5219	0.28%	0.068%
256	15.569	15.532	15.677	VV	45256	880335	48.05%	11.417%
257	15.707	15.677	15.745	VV	2737	50068	2.73%	0.649%
258	15.773	15.745	15.807	VV	3036	45637	2.49%	0.592%
259	15.840	15.807	15.911	VV	797	21869	1.19%	0.284%
260	15.999	15.911	16.016	VV	564	17084	0.93%	0.222%
261	16.032	16.016	16.062	VV	466	9517	0.52%	0.123%
262	16.095	16.062	16.157	VV	1482	35198	1.92%	0.456%
263	16.210	16.157	16.245	VV	2512	38516	2.10%	0.500%
264	16.273	16.245	16.300	VV	373	5612	0.31%	0.073%
265	16.348	16.300	16.367	PV	369	5895	0.32%	0.076%
266	16.426	16.367	16.450	PV	180	6263	0.34%	0.081%
267	16.501	16.450	16.530	PV	700	11586	0.63%	0.150%
268	16.592	16.530	16.639	VV	4289	100379	5.48%	1.302%
269	16.653	16.639	16.669	VV	872	13519	0.74%	0.175%
270	16.694	16.669	16.725	VV	3081	45197	2.47%	0.586%
271	16.769	16.725	16.799	VV	1433	34012	1.86%	0.441%
272	16.811	16.799	16.823	VV	642	8349	0.46%	0.108%
273	16.838	16.823	16.858	VV	527	7952	0.43%	0.103%
274	16.893	16.858	16.917	VV	338	7417	0.40%	0.096%
275	16.941	16.917	16.952	VV	282	3858	0.21%	0.050%
276	16.988	16.952	17.017	VV	1018	21204	1.16%	0.275%
277	17.067	17.017	17.110	VV	927	29230	1.60%	0.379%
278	17.124	17.110	17.132	VV	347	3431	0.19%	0.044%
279	17.160	17.132	17.187	VV	3121	46911	2.56%	0.608%
280	17.209	17.187	17.224	VV	1048	15767	0.86%	0.204%
281	17.239	17.224	17.270	VV	751	14334	0.78%	0.186%
282	17.329	17.270	17.340	PV	306	7233	0.39%	0.094%
283	17.394	17.340	17.409	PV	313	6327	0.35%	0.082%
284	17.465	17.409	17.478	VV	359	9300	0.51%	0.121%
			Sum of corrected areas:			7710887		

FG052225.M Sat May 24 02:08:35 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG052325\
Data File : FG015897.D
Signal(s) : FID1A.ch
Acq On : 23 May 2025 13:58
Operator : YP\AJ
Sample : PB168150BL
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
PB168150BL

Integration File: autoint1.e
Quant Time: May 23 23:06:22 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...	14.983	2035623	16.609 ug/ml
Target Compounds			

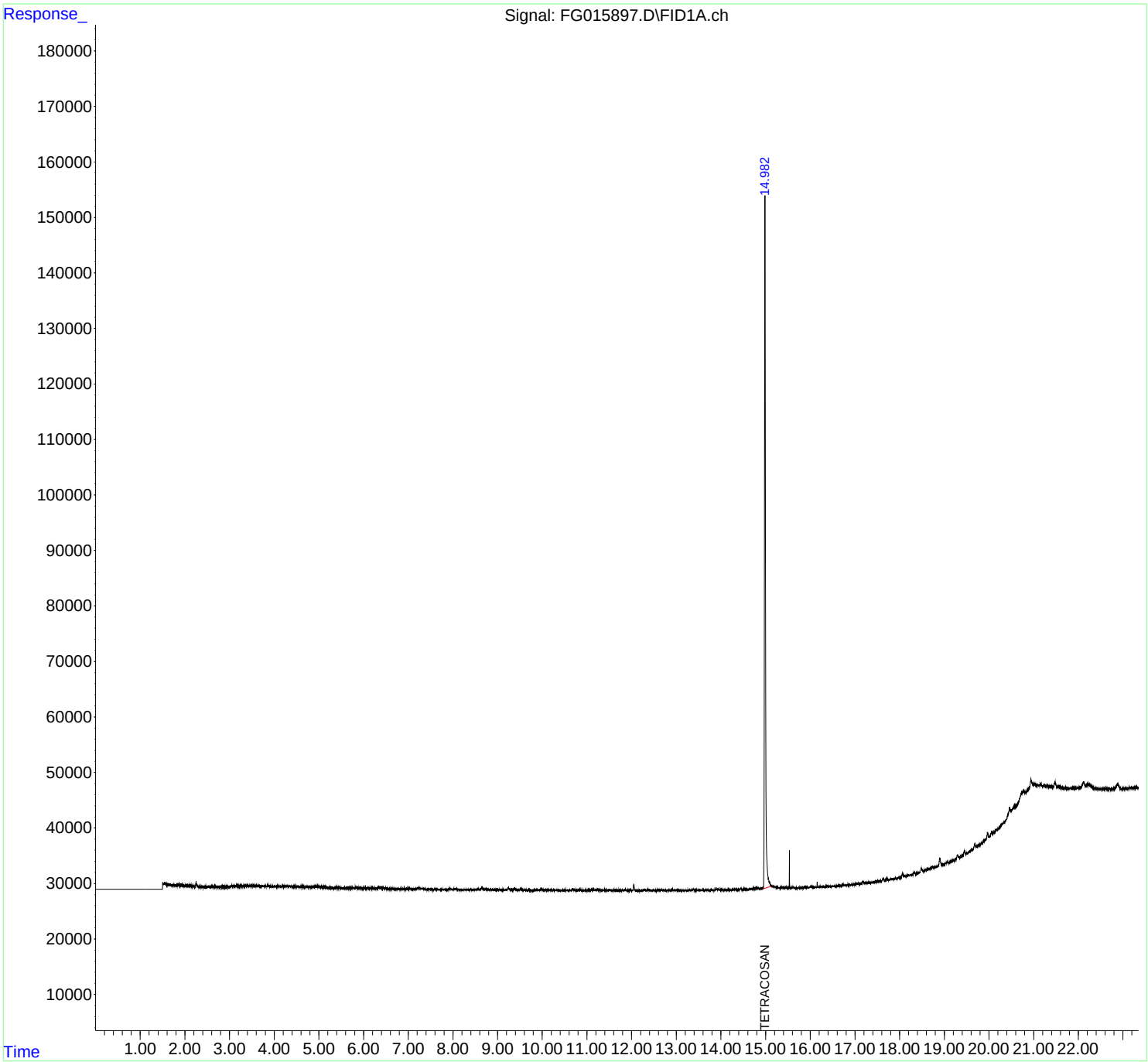
(f)=RT Delta > 1/2 Window (m)=manual int.

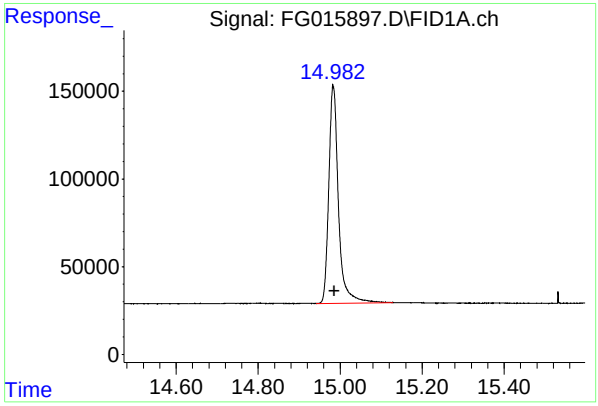
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG052325\
Data File : FG015897.D
Signal(s) : FID1A.ch
Acq On : 23 May 2025 13:58
Operator : YP\AJ
Sample : PB168150BL
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
PB168150BL

Integration File: autoint1.e
Quant Time: May 23 23:06:22 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.: 14.983 min
Delta R.T.: -0.003 mi
Response: 2035623
Conc: 16.61 ug/m

Instrument :
FID_G
ClientSampleId :
PB168150BL

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A B C D E F G H I J

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG052325\
Data File : FG015897.D
Signal(s) : FID1A.ch
Acq On : 23 May 2025 13:58
Sample : PB168150BL
Misc :
ALS Vial : 21 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	14.983	14.941	15.129	BB	123500	2035623	100.00%	100.000%

Sum of corrected areas: 2035623

FG052225.M Sat May 24 02:02:37 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG052325\
Data File : FG015898.D
Signal(s) : FID1A.ch
Acq On : 23 May 2025 14:27
Operator : YP\AJ
Sample : PB168150BS
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
PB168150BS

Integration File: autoint1.e
Quant Time: May 23 23:06:33 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...	14.982	2457737	20.053 ug/ml
	Target Compounds			
2)	N-DECANE	4.486	2230824	18.986 ug/ml
3)	N-DODECANE	6.668	2397771	19.756 ug/ml
4)	N-TETRADECANE	8.504	2439503	19.105 ug/ml
5)	N-HEXADECANE	10.117	2598592	19.505 ug/ml
6)	N-OCTADECANE	11.564	2741788	19.867 ug/ml
7)	N-EICOSANE	12.878	2722673	19.272 ug/ml
8)	N-DOCOSANE	14.081	2715016	19.765 ug/ml
10)	N-TETRACOSANE	15.186	2719445	19.782 ug/ml
11)	N-HEXACOSANE	16.209	2673999	19.681 ug/ml
12)	N-OCTACOSANE	17.162	2647871	19.639 ug/ml

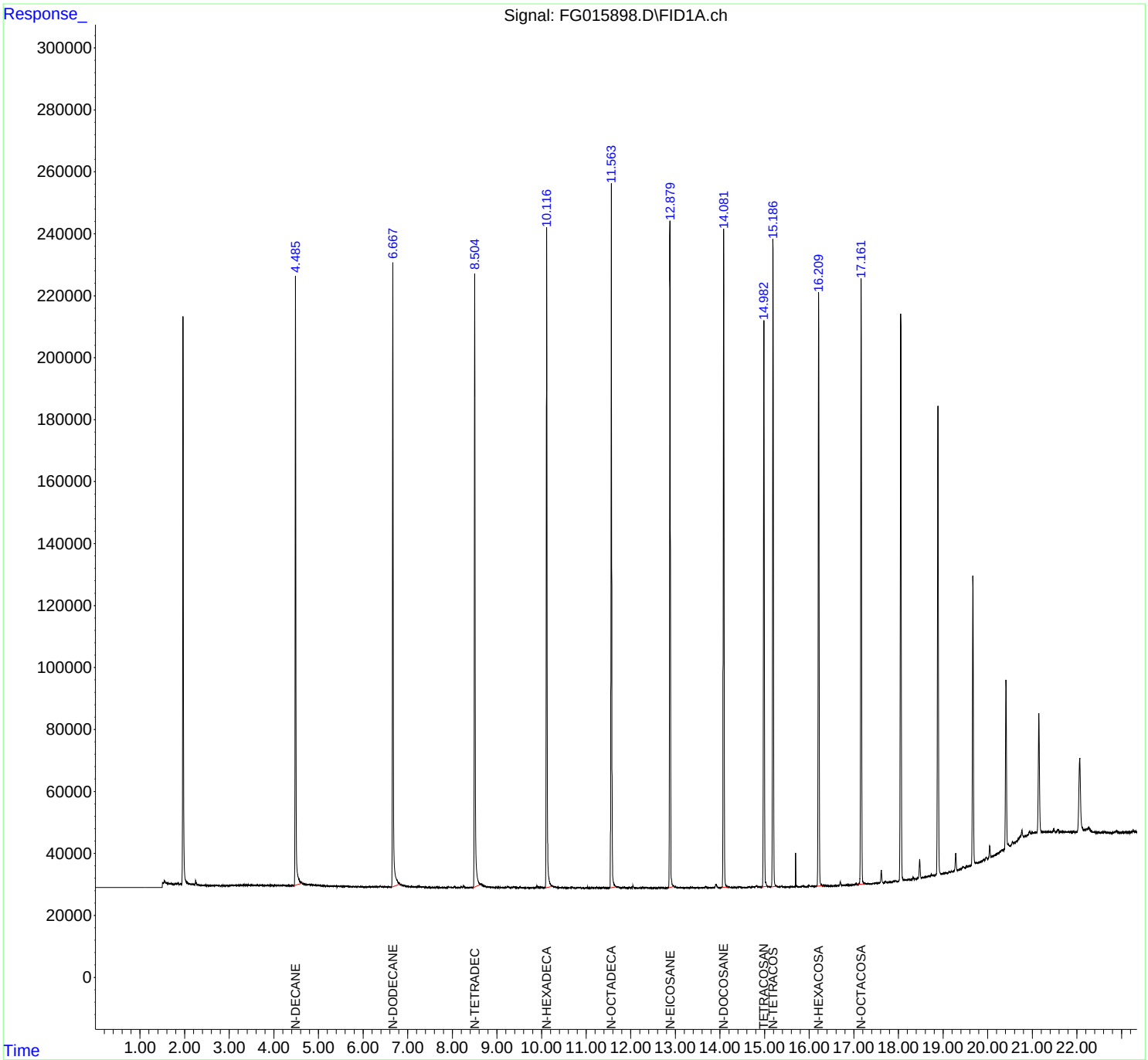
(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG052325\
Data File : FG015898.D
Signal(s) : FID1A.ch
Acq On : 23 May 2025 14:27
Operator : YP\AJ
Sample : PB168150BS
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
PB168150BS

Integration File: autoint1.e
Quant Time: May 23 23:06:33 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\FG052325\
Data File : FG015898.D
Signal(s) : FID1A.ch
Acq On : 23 May 2025 14:27
Sample : PB168150BS
Misc :
ALS Vial : 22 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	4.486	4.443	4.628	BB	196413	2230824	81.36%	7.870%
2	6.668	6.636	6.825	BB	201335	2397771	87.45%	8.459%
3	8.504	8.467	8.624	BB	197711	2439503	88.97%	8.606%
4	10.117	10.083	10.242	BB	212550	2598592	94.78%	9.168%
5	11.564	11.531	11.669	BB	225613	2741788	100.00%	9.673%
6	12.878	12.835	12.965	BB	215061	2722673	99.30%	9.605%
7	14.081	14.043	14.168	BB	211657	2715016	99.02%	9.578%
8	14.982	14.935	15.060	BB	183051	2457737	89.64%	8.671%
9	15.186	15.143	15.270	BB	208989	2719445	99.19%	9.594%
10	16.209	16.157	16.297	BB	191854	2673999	97.53%	9.434%
11	17.162	17.090	17.241	BB	194579	2647871	96.57%	9.342%
			Sum of corrected areas:			28345218		

FG052225.M Sat May 24 02:03:10 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG052325\
Data File : FG015903.D
Signal(s) : FID1A.ch
Acq On : 23 May 2025 16:54
Operator : YP\AJ
Sample : Q2100-04MS
Misc :
ALS Vial : 27 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
TP-45MS

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 05/27/2025
Supervised By :mohammad ahmed 05/28/2025

Integration File: autoint1.e
Quant Time: May 23 23:07:55 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...	14.982	1560457	12.732 ug/ml
	Target Compounds			
2)	N-DECANE	4.485	2717779	23.130 ug/ml
3)	N-DODECANE	6.667	2921598	24.071 ug/ml
4)	N-TETRADECANE	8.503	2950277	23.105 ug/ml
5)	N-HEXADECANE	10.117	3192538	23.963 ug/ml
6)	N-OCTADECANE	11.565	3248063	23.536 ug/ml
7)	N-EICOSANE	12.879	3238782	22.925 ug/ml
8)	N-DOCOSANE	14.080	3213690	23.395 ug/ml
10)	N-TETRACOSANE	15.186	3186827	23.182 ug/ml
11)	N-HEXACOSANE	16.211	3154555	23.218 ug/ml
12)	N-OCTACOSANE	17.163	3100655	22.998 ug/mlm

(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG052325\
Data File : FG015903.D
Signal(s) : FID1A.ch
Acq On : 23 May 2025 16:54
Operator : YP\AJ
Sample : Q2100-04MS
Misc :
ALS Vial : 27 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: May 23 23:07:55 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 :
TP-45MS

Manual Integrations APPROVED

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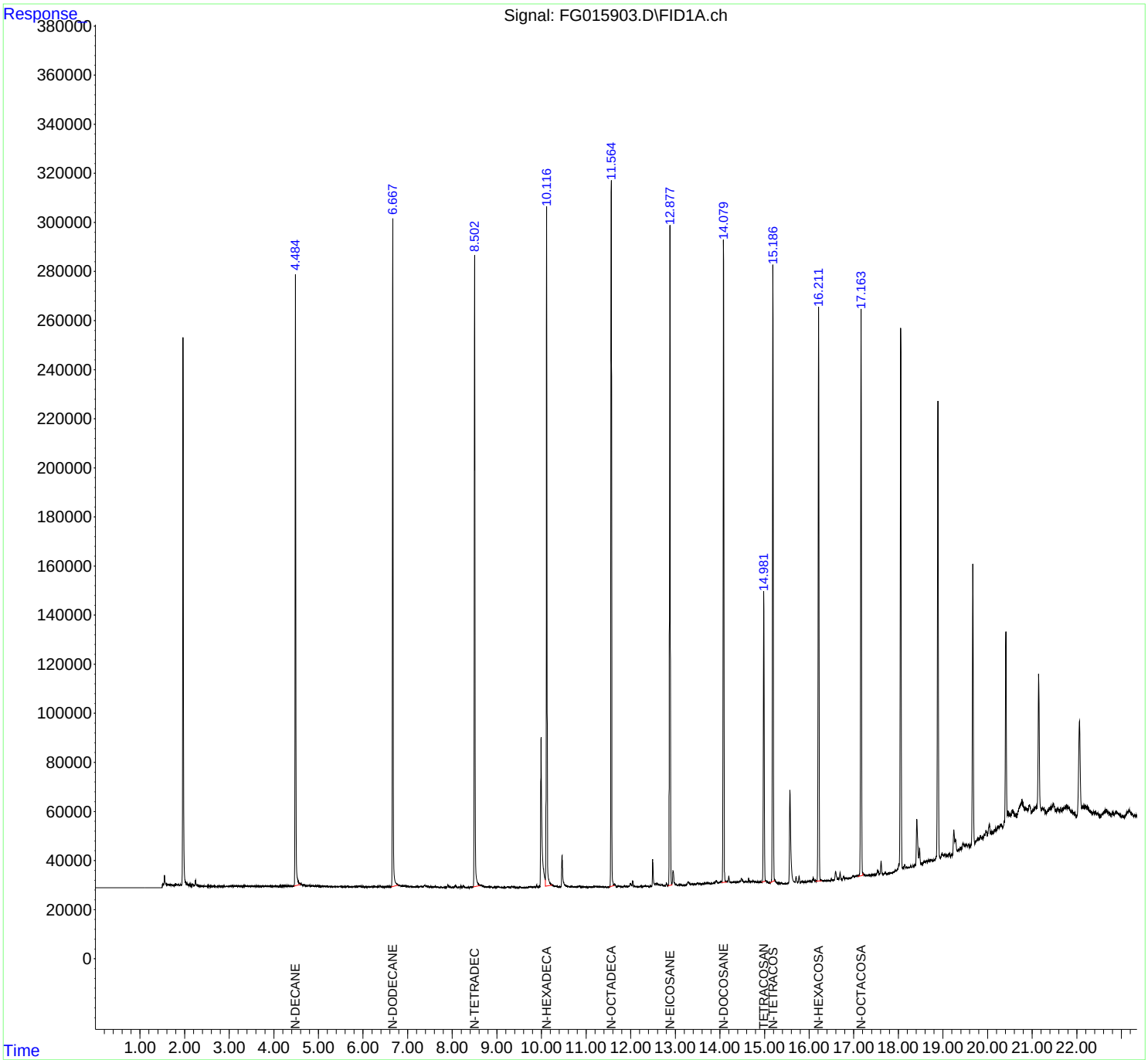

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Instrument :
FID_G
ClientSampleId :
TP-45MS

rteres

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 05/27/2025
Supervised By :mohammad ahmed 05/28/2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG05232
Data File : FG015903.D
Signal(s) : FID1A.ch
Acq On : 23 May 2025 16:54
Sample : Q2100-04MS
Misc :
ALS Vial : 27 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	4.306	4.300	4.334	BV	174	1475	0.04%	0.004%
2	4.345	4.334	4.350	PV	135	751	0.02%	0.002%
3	4.379	4.350	4.390	VV	186	2327	0.07%	0.006%
4	4.418	4.390	4.423	PV	159	2193	0.07%	0.006%
5	4.427	4.423	4.446	VV	198	1850	0.06%	0.005%
6	4.485	4.446	4.599	VV	249057	2765870	83.65%	7.174%
7	4.611	4.599	4.651	VV	1182	24962	0.75%	0.065%
8	4.664	4.651	4.725	VV	714	22624	0.68%	0.059%
9	4.733	4.725	4.752	VV	435	5634	0.17%	0.015%
10	4.771	4.752	4.783	VV	419	6477	0.20%	0.017%
11	4.793	4.783	4.811	VV	462	6124	0.19%	0.016%
12	4.822	4.811	4.841	VV	345	5265	0.16%	0.014%
13	4.849	4.841	4.855	VV	349	2595	0.08%	0.007%
14	4.857	4.855	4.903	VV	363	8422	0.25%	0.022%
15	4.909	4.903	4.920	VV	352	2694	0.08%	0.007%
16	4.933	4.920	4.936	VV	341	2617	0.08%	0.007%
17	4.941	4.936	4.954	VV	321	2874	0.09%	0.007%
18	4.961	4.954	4.966	VV	341	1983	0.06%	0.005%
19	4.970	4.966	4.978	VV	310	1947	0.06%	0.005%
20	4.996	4.978	5.021	VV	339	6698	0.20%	0.017%
21	5.022	5.021	5.045	VV	306	3025	0.09%	0.008%
22	5.049	5.045	5.058	VV	256	1726	0.05%	0.004%
23	5.062	5.058	5.065	VV	287	972	0.03%	0.003%
24	5.072	5.065	5.089	VV	273	2931	0.09%	0.008%
25	5.092	5.089	5.100	VV	247	1299	0.04%	0.003%
26	5.105	5.100	5.120	VV	213	2150	0.07%	0.006%
27	5.154	5.120	5.172	VV	273	5920	0.18%	0.015%
28	5.176	5.172	5.184	VV	207	1295	0.04%	0.003%
29	5.192	5.184	5.198	VV	281	1594	0.05%	0.004%
30	5.201	5.198	5.210	VV	180	1128	0.03%	0.003%
31	5.213	5.210	5.224	VV	210	1336	0.04%	0.003%
32	5.231	5.224	5.246	VV	169	1871	0.06%	0.005%
33	5.251	5.246	5.261	VV	172	1159	0.04%	0.003%
34	5.264	5.261	5.275	VV	133	779	0.02%	0.002%
35	5.284	5.275	5.303	PV	122	1720	0.05%	0.004%
36	5.307	5.303	5.325	VV	134	1312	0.04%	0.003%

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Instrument :
FID_G
ClientSampleId :
TP-45MS

Manual IntegrationsAPPROVED

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rteres

37	5.337	5.325	5.346	VV	183	1675	0.05%	0.004%
38	5.350	5.346	5.361	VV	149	1049		
39	5.364	5.361	5.371	VV	156	608		
40	5.377	5.371	5.400	VV	150	1884		
41	5.406	5.400	5.411	VV	175	738		
42	5.415	5.411	5.427	VV	125	1038		
43	5.431	5.427	5.437	VV	147	714	0.02%	0.002%
44	5.441	5.437	5.451	VV	168	853	0.03%	0.002%
45	5.456	5.451	5.459	VV	124	556	0.02%	0.001%
46	5.480	5.459	5.519	VV	266	5524	0.17%	0.014%
47	5.528	5.519	5.550	VV	190	2187	0.07%	0.006%
48	5.559	5.550	5.569	VV	209	1492	0.05%	0.004%
49	5.572	5.569	5.576	VV	148	371	0.01%	0.001%
50	5.580	5.576	5.583	VV	94	330	0.01%	0.001%
51	5.587	5.583	5.597	VV	148	877	0.03%	0.002%
52	5.599	5.597	5.614	VV	142	910	0.03%	0.002%
53	5.639	5.614	5.647	VV	237	3300	0.10%	0.009%
54	5.648	5.647	5.687	VV	231	2405	0.07%	0.006%
55	5.693	5.687	5.699	VV	89	427	0.01%	0.001%
56	5.703	5.699	5.714	VV	120	573	0.02%	0.001%
57	5.739	5.714	5.783	VV	185	5150	0.16%	0.013%
58	5.789	5.783	5.811	VV	230	3573	0.11%	0.009%
59	5.814	5.811	5.818	VV	250	850	0.03%	0.002%
60	5.821	5.818	5.824	VV	248	861	0.03%	0.002%
61	5.831	5.824	5.859	VV	276	5104	0.15%	0.013%
62	5.874	5.859	5.899	VV	281	5368	0.16%	0.014%
63	5.912	5.899	5.918	VV	326	2905	0.09%	0.008%
64	5.921	5.918	5.934	VV	307	2497	0.08%	0.006%
65	5.937	5.934	5.952	VV	308	2673	0.08%	0.007%
66	5.972	5.952	5.992	VV	297	4467	0.14%	0.012%
67	5.998	5.992	6.041	VV	210	4474	0.14%	0.012%
68	6.044	6.041	6.053	VV	228	894	0.03%	0.002%
69	6.056	6.053	6.067	VV	129	860	0.03%	0.002%
70	6.096	6.067	6.103	VV	200	3050	0.09%	0.008%
71	6.111	6.103	6.135	VV	173	2489	0.08%	0.006%
72	6.141	6.135	6.150	VV	155	1191	0.04%	0.003%
73	6.161	6.150	6.166	VV	193	1380	0.04%	0.004%
74	6.171	6.166	6.180	VV	174	1055	0.03%	0.003%
75	6.204	6.180	6.227	VV	268	4782	0.14%	0.012%
76	6.240	6.227	6.262	VV	273	3685	0.11%	0.010%
77	6.267	6.262	6.282	VV	269	2289	0.07%	0.006%
78	6.290	6.282	6.303	VV	195	1963	0.06%	0.005%
79	6.319	6.303	6.326	VV	309	1862	0.06%	0.005%
80	6.332	6.326	6.351	VV	258	2115	0.06%	0.005%
81	6.354	6.351	6.362	VV	253	1124	0.03%	0.003%
82	6.381	6.362	6.419	VV	759	11656	0.35%	0.030%
83	6.422	6.419	6.448	VV	158	1910	0.06%	0.005%
84	6.457	6.448	6.464	VV	123	922	0.03%	0.002%
85	6.474	6.464	6.496	VV	183	2325	0.07%	0.006%
86	6.501	6.496	6.506	VV	122	671	0.02%	0.002%
87	6.533	6.506	6.547	VV	226	3766	0.11%	0.010%
88	6.555	6.547	6.559	VV	259	1617	0.05%	0.004%
89	6.563	6.559	6.597	VV	261	3915	0.12%	0.010%

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Instrument :
FID_G
ClientSampleId :
TP-45MS

rteres

Manual IntegrationsAPPROVED

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90	6.602	6.597	6.608	VV	163	779	0.02%	0.002%
91	6.667	6.608	6.811	VV	271988	2982695	90	
92	6.818	6.811	6.837	VV	816	11940	0	
93	6.843	6.837	6.876	VV	751	14914	0	
94	6.891	6.876	6.896	VV	688	7253	0	
95	6.899	6.896	6.907	VV	640	4118	0	
96	6.916	6.907	6.926	VV	610	6413	0.19%	0.017%
97	6.932	6.926	6.996	VV	607	20535	0.62%	0.053%
98	6.999	6.996	7.052	VV	491	11764	0.36%	0.031%
99	7.057	7.052	7.071	VV	306	3348	0.10%	0.009%
100	7.077	7.071	7.083	VV	280	1934	0.06%	0.005%
101	7.087	7.083	7.127	VV	289	5859	0.18%	0.015%
102	7.132	7.127	7.138	VV	260	1481	0.04%	0.004%
103	7.145	7.138	7.155	VV	303	2243	0.07%	0.006%
104	7.164	7.155	7.172	VV	275	2423	0.07%	0.006%
105	7.178	7.172	7.184	VV	286	1734	0.05%	0.004%
106	7.201	7.184	7.218	VV	348	5987	0.18%	0.016%
107	7.221	7.218	7.241	VV	325	4393	0.13%	0.011%
108	7.260	7.241	7.274	VV	422	7171	0.22%	0.019%
109	7.293	7.274	7.339	VV	400	12450	0.38%	0.032%
110	7.376	7.339	7.496	VV	899	46366	1.40%	0.120%
111	7.500	7.496	7.505	VV	306	1451	0.04%	0.004%
112	7.510	7.505	7.554	VV	350	6906	0.21%	0.018%
113	7.567	7.554	7.589	VV	280	4285	0.13%	0.011%
114	7.624	7.589	7.677	VV	594	14073	0.43%	0.037%
115	7.682	7.677	7.696	VV	126	1255	0.04%	0.003%
116	7.700	7.696	7.761	VV	129	4076	0.12%	0.011%
117	7.807	7.761	7.821	VV	164	2743	0.08%	0.007%
118	7.832	7.821	7.870	VV	128	2397	0.07%	0.006%
119	7.901	7.870	7.988	VV	1221	22882	0.69%	0.059%
120	7.997	7.988	8.008	VV	164	1368	0.04%	0.004%
121	8.047	8.008	8.057	VV	431	6690	0.20%	0.017%
122	8.074	8.057	8.134	VV	1076	17075	0.52%	0.044%
123	8.148	8.134	8.173	VV	236	3721	0.11%	0.010%
124	8.195	8.173	8.228	VV	906	12201	0.37%	0.032%
125	8.251	8.228	8.306	VV	974	14901	0.45%	0.039%
126	8.327	8.306	8.342	VV	151	2745	0.08%	0.007%
127	8.357	8.342	8.373	VV	220	2662	0.08%	0.007%
128	8.409	8.373	8.439	PV	387	8559	0.26%	0.022%
129	8.503	8.439	8.622	VV	256880	3010358	91.04%	7.808%
130	8.642	8.622	8.824	VV	1149	64926	1.96%	0.168%
131	8.864	8.824	8.911	VV	422	14165	0.43%	0.037%
132	8.937	8.911	8.984	VV	366	9369	0.28%	0.024%
133	9.010	8.984	9.027	VV	445	8937	0.27%	0.023%
134	9.045	9.027	9.094	VV	453	10956	0.33%	0.028%
135	9.101	9.094	9.148	VV	178	4270	0.13%	0.011%
136	9.158	9.148	9.189	VV	138	3159	0.10%	0.008%
137	9.237	9.189	9.261	VV	471	10699	0.32%	0.028%
138	9.274	9.261	9.307	VV	329	5553	0.17%	0.014%
139	9.336	9.307	9.357	VV	625	10155	0.31%	0.026%
140	9.381	9.357	9.487	VV	373	11197	0.34%	0.029%
141	9.522	9.487	9.567	VV	352	7118	0.22%	0.018%

Instrument :
FID_G
ClientSampleId :
TP-45MS

Manual IntegrationsAPPROVED

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142	9.580	9.567	9.596	VV	135	1288	0.04%	0.003%
143	9.634	9.596	9.651	PV	211	2958		
144	9.671	9.651	9.692	VV	126	2238		
145	9.732	9.692	9.744	VV	359	8479		
146	9.753	9.744	9.789	VV	389	7322		
147	9.801	9.789	9.828	VV	273	5078		
148	9.854	9.828	9.870	VV	314	6411	0.19%	0.017%
149	9.894	9.870	9.922	VV	1254	17460	0.53%	0.045%
150	9.948	9.922	9.967	VV	856	11834	0.36%	0.031%
151	9.991	9.967	10.085	VV	61313	1229180	37.17%	3.188%
152	10.117	10.085	10.337	VV	277115	3306661	100.00%	8.577%
153	10.345	10.337	10.399	VV	534	13139	0.40%	0.034%
154	10.414	10.399	10.431	VV	354	5404	0.16%	0.014%
155	10.462	10.431	10.624	VV	13158	266536	8.06%	0.691%
156	10.632	10.624	10.657	VV	347	6398	0.19%	0.017%
157	10.680	10.657	10.718	VV	540	12454	0.38%	0.032%
158	10.759	10.718	10.768	VV	276	7485	0.23%	0.019%
159	10.786	10.768	10.812	VV	325	6333	0.19%	0.016%
160	10.833	10.812	10.844	VV	550	7493	0.23%	0.019%
161	10.859	10.844	10.906	VV	594	12366	0.37%	0.032%
162	10.930	10.906	10.953	VV	295	6365	0.19%	0.017%
163	10.980	10.953	11.061	VV	289	9552	0.29%	0.025%
164	11.082	11.061	11.124	VV	176	4443	0.13%	0.012%
165	11.141	11.124	11.154	VV	247	2855	0.09%	0.007%
166	11.185	11.154	11.219	VV	428	12191	0.37%	0.032%
167	11.238	11.219	11.266	VV	506	9514	0.29%	0.025%
168	11.280	11.266	11.297	VV	286	5110	0.15%	0.013%
169	11.311	11.297	11.356	VV	339	7689	0.23%	0.020%
170	11.375	11.356	11.456	VV	214	7436	0.22%	0.019%
171	11.498	11.456	11.510	PV	151	2806	0.08%	0.007%
172	11.564	11.510	11.627	VV	284411	3277116	99.11%	8.500%
173	11.643	11.627	11.704	VV	1342	30237	0.91%	0.078%
174	11.725	11.704	11.742	VV	524	8552	0.26%	0.022%
175	11.760	11.742	11.783	VV	495	7483	0.23%	0.019%
176	11.808	11.783	11.830	VV	220	3897	0.12%	0.010%
177	11.871	11.830	11.901	VV	392	11896	0.36%	0.031%
178	11.911	11.901	11.933	VV	291	4093	0.12%	0.011%
179	11.955	11.933	11.963	VV	383	4707	0.14%	0.012%
180	11.995	11.963	12.025	VV	1496	33511	1.01%	0.087%
181	12.046	12.025	12.174	VV	2486	47027	1.42%	0.122%
182	12.179	12.174	12.199	VV	159	2057	0.06%	0.005%
183	12.236	12.199	12.276	VV	555	10766	0.33%	0.028%
184	12.295	12.276	12.309	VV	460	6051	0.18%	0.016%
185	12.332	12.309	12.378	VV	610	13047	0.39%	0.034%
186	12.383	12.378	12.411	VV	212	2622	0.08%	0.007%
187	12.438	12.411	12.459	PV	344	5739	0.17%	0.015%
188	12.493	12.459	12.539	VV	11189	149697	4.53%	0.388%
189	12.557	12.539	12.571	VV	1432	21123	0.64%	0.055%
190	12.587	12.571	12.641	VV	1462	39879	1.21%	0.103%
191	12.656	12.641	12.681	VV	811	14574	0.44%	0.038%
192	12.702	12.681	12.736	VV	974	20171	0.61%	0.052%
193	12.748	12.736	12.759	VV	302	4094	0.12%	0.011%
194	12.798	12.759	12.836	VV	1317	26839	0.81%	0.070%

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Instrument :
FID_G
ClientSampleId :
TP-45MS

rteres

195	12.878	12.836	12.922	VV	267733	3259298	98.57%	8.454%
196	12.950	12.922	13.067	VV	6285	155786		
197	13.084	13.067	13.111	VV	816	14736		
198	13.131	13.111	13.174	VV	628	16035		
199	13.200	13.174	13.221	VV	391	9346		
200	13.287	13.221	13.352	VV	1609	70115		
201	13.374	13.352	13.396	VV	714	17612	0.53%	0.046%
202	13.405	13.396	13.422	VV	758	10466	0.32%	0.027%
203	13.435	13.422	13.467	VV	752	17016	0.51%	0.044%
204	13.492	13.467	13.537	VV	1129	34782	1.05%	0.090%
205	13.550	13.537	13.581	VV	881	18762	0.57%	0.049%
206	13.622	13.581	13.639	VV	746	23607	0.71%	0.061%
207	13.668	13.639	13.697	VV	915	29461	0.89%	0.076%
208	13.716	13.697	13.762	VV	1103	37192	1.12%	0.096%
209	13.769	13.762	13.822	VV	1003	28702	0.87%	0.074%
210	13.919	13.822	13.966	VV	1941	97001	2.93%	0.252%
211	14.029	13.966	14.044	VV	1601	57497	1.74%	0.149%
212	14.080	14.044	14.158	VV	262580	3296185	99.68%	8.550%
213	14.197	14.158	14.266	VV	3654	106625	3.22%	0.277%
214	14.315	14.266	14.374	VV	1284	75598	2.29%	0.196%
215	14.389	14.374	14.422	VV	1266	33868	1.02%	0.088%
216	14.439	14.422	14.454	VV	1412	23910	0.72%	0.062%
217	14.481	14.454	14.546	VV	2536	93117	2.82%	0.242%
218	14.577	14.546	14.617	VV	1341	50401	1.52%	0.131%
219	14.643	14.617	14.671	VV	2104	46454	1.40%	0.120%
220	14.706	14.671	14.719	VV	1305	34363	1.04%	0.089%
221	14.744	14.719	14.785	VV	1497	48707	1.47%	0.126%
222	14.803	14.785	14.832	VV	1105	27653	0.84%	0.072%
223	14.849	14.832	14.866	VV	1053	18017	0.54%	0.047%
224	14.899	14.866	14.946	VV	1043	42939	1.30%	0.111%
225	14.981	14.946	15.021	VV	118109	1609950	48.69%	4.176%
226	15.030	15.021	15.126	VV	1386	50843	1.54%	0.132%
227	15.186	15.126	15.306	VV	250111	3282033	99.26%	8.513%
228	15.313	15.306	15.361	VV	356	7612	0.23%	0.020%
229	15.381	15.361	15.454	VV	408	8402	0.25%	0.022%
230	15.484	15.454	15.492	PV	97	860	0.03%	0.002%
231	15.569	15.492	15.677	PV	37616	760658	23.00%	1.973%
232	15.705	15.677	15.746	VV	2614	42795	1.29%	0.111%
233	15.773	15.746	15.812	VV	2733	39440	1.19%	0.102%
234	15.839	15.812	15.870	VV	517	11107	0.34%	0.029%
235	15.885	15.870	15.936	VV	255	7040	0.21%	0.018%
236	15.998	15.936	16.019	VV	481	14165	0.43%	0.037%
237	16.027	16.019	16.052	VV	416	6621	0.20%	0.017%
238	16.093	16.052	16.149	VV	1348	38440	1.16%	0.100%
239	16.211	16.149	16.266	VV	233262	3173353	95.97%	8.231%
240	16.273	16.266	16.314	VV	556	9176	0.28%	0.024%
241	16.348	16.314	16.379	VV	310	6817	0.21%	0.018%
242	16.401	16.379	16.417	PV	203	3530	0.11%	0.009%
243	16.425	16.417	16.470	VV	194	2917	0.09%	0.008%
244	16.501	16.470	16.537	PV	555	8997	0.27%	0.023%
245	16.593	16.537	16.644	VV	3641	82069	2.48%	0.213%
246	16.657	16.644	16.671	VV	596	7980	0.24%	0.021%

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 05/27/2025
Supervised By :mohammad ahmed 05/28/2025

11

Instrument :
FID_G
ClientSampleId :
TP-45MS

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 05/27/2025
Supervised By :mohammad ahmed 05/28/2025

rteres

247	16.693	16.671	16.729	VV	3067	42474	1.28%	0.110%
248	16.770	16.729	16.823	PV	1081	27724	0	
249	16.846	16.823	16.873	VV	344	8446	0	
250	16.896	16.873	16.909	VV	191	4187	0	
251	16.928	16.909	16.937	VV	212	2922	0	
252	16.983	16.937	17.024	VV	1078	31099	0	
253	17.070	17.024	17.099	VV	803	32696	0.99%	0.085%
254	17.163	17.099	17.199	VV	229845	3130823	94.68%	8.121%
255	17.207	17.199	17.229	VV	1629	21849	0.66%	0.057%
256	17.242	17.229	17.270	VV	841	16121	0.49%	0.042%
257	17.281	17.270	17.301	VV	428	7090	0.21%	0.018%
258	17.322	17.301	17.342	VV	344	7183	0.22%	0.019%
259	17.395	17.342	17.411	VV	310	10009	0.30%	0.026%
260	17.441	17.411	17.479	VV	356	8176	0.25%	0.021%

Sum of corrected areas: 38553721

FG052225.M Sat May 24 02:09:04 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG052325\
Data File : FG015904.D
Signal(s) : FID1A.ch
Acq On : 23 May 2025 17:23
Operator : YP\AJ
Sample : Q2100-04MSD
Misc :
ALS Vial : 28 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
TP-45MSD

Integration File: autoint1.e
Quant Time: May 23 23:08:16 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...	14.981	1542298	12.584 ug/ml
Target Compounds				
2)	N-DECANE	4.486	2714827	23.105 ug/ml
3)	N-DODECANE	6.667	2914770	24.015 ug/ml
4)	N-TETRADECANE	8.503	2934760	22.983 ug/ml
5)	N-HEXADECANE	10.116	3163975	23.748 ug/ml
6)	N-OCTADECANE	11.564	3207787	23.244 ug/ml
7)	N-EICOSANE	12.877	3198073	22.637 ug/ml
8)	N-DOCOSANE	14.080	3172298	23.094 ug/ml
10)	N-TETRACOSANE	15.186	3152191	22.930 ug/ml
11)	N-HEXACOSANE	16.210	3114887	22.926 ug/ml
12)	N-OCTACOSANE	17.161	3036482	22.522 ug/ml

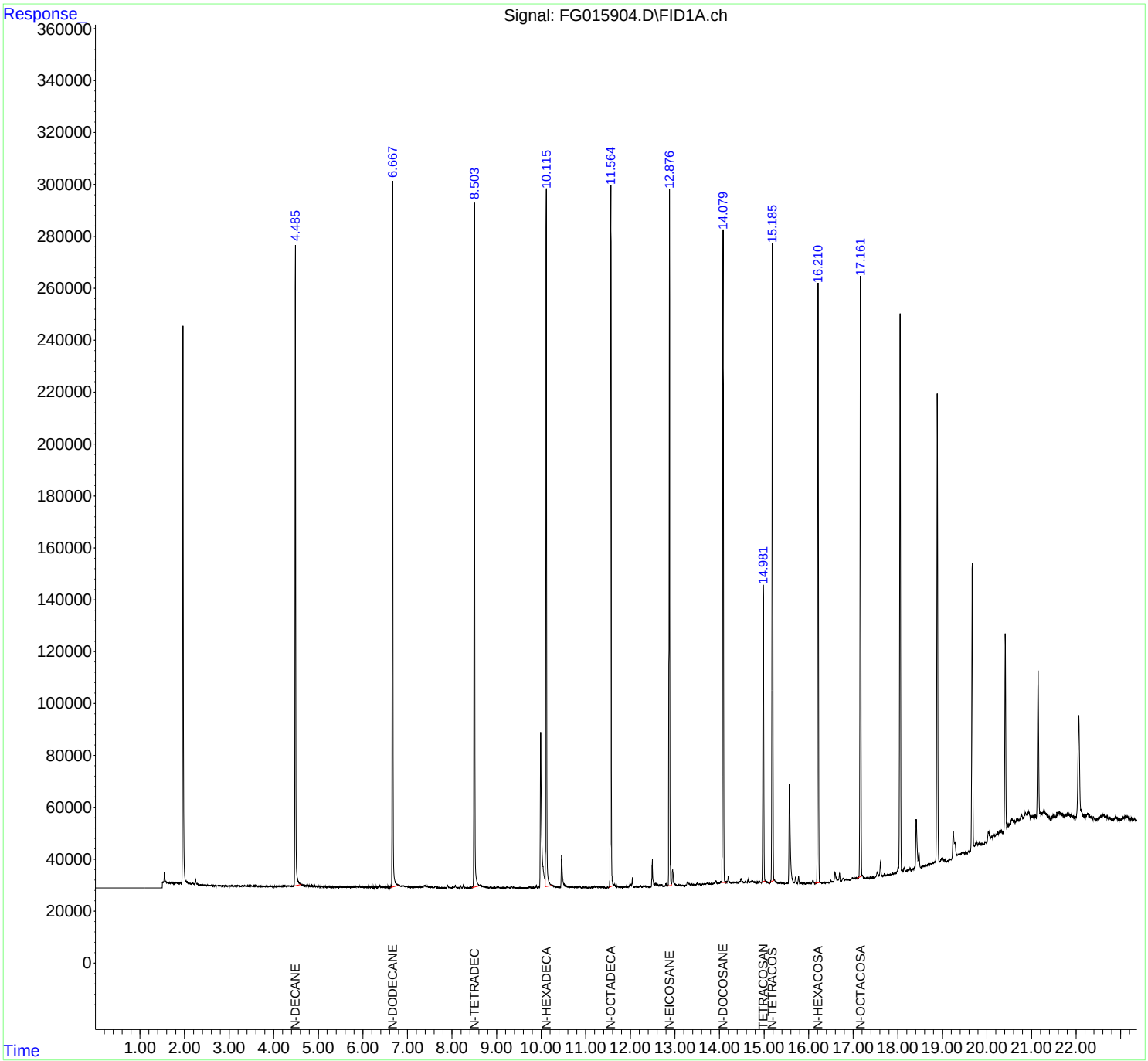
(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG052325\
Data File : FG015904.D
Signal(s) : FID1A.ch
Acq On : 23 May 2025 17:23
Operator : YP\AJ
Sample : Q2100-04MSD
Misc :
ALS Vial : 28 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
TP-45MSD

Integration File: autoint1.e
Quant Time: May 23 23:08:16 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



rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG052325\
Data File : FG015904.D
Signal(s) : FID1A.ch
Acq On : 23 May 2025 17:23
Sample : Q2100-04MSD
Misc :
ALS Vial : 28 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	4.319	4.300	4.328	BV	160	1114	0.03%	0.003%
2	4.333	4.328	4.348	VV	88	729	0.02%	0.002%
3	4.352	4.348	4.363	VV	108	506	0.02%	0.001%
4	4.369	4.363	4.410	PV	58	927	0.03%	0.002%
5	4.415	4.410	4.436	VV	84	899	0.03%	0.002%
6	4.441	4.436	4.446	VV	78	365	0.01%	0.001%
7	4.450	4.446	4.454	PV	99	206	0.01%	0.001%
8	4.486	4.454	4.599	VV	246810	2753023	83.82%	7.201%
9	4.605	4.599	4.650	VV	993	21983	0.67%	0.057%
10	4.665	4.650	4.700	VV	655	16021	0.49%	0.042%
11	4.702	4.700	4.715	VV	460	3703	0.11%	0.010%
12	4.722	4.715	4.749	VV	410	7027	0.21%	0.018%
13	4.753	4.749	4.760	VV	385	2121	0.06%	0.006%
14	4.767	4.760	4.790	VV	395	5875	0.18%	0.015%
15	4.792	4.790	4.809	VV	384	3611	0.11%	0.009%
16	4.816	4.809	4.821	VV	243	1824	0.06%	0.005%
17	4.827	4.821	4.835	VV	381	2258	0.07%	0.006%
18	4.840	4.835	4.850	VV	340	2501	0.08%	0.007%
19	4.856	4.850	4.881	VV	431	5022	0.15%	0.013%
20	4.888	4.881	4.900	VV	359	2750	0.08%	0.007%
21	4.902	4.900	4.910	VV	269	1421	0.04%	0.004%
22	4.919	4.910	4.936	VV	448	3816	0.12%	0.010%
23	4.945	4.936	4.965	VV	259	3697	0.11%	0.010%
24	4.972	4.965	4.986	VV	249	2521	0.08%	0.007%
25	4.997	4.986	5.005	VV	331	2761	0.08%	0.007%
26	5.007	5.005	5.035	VV	267	3184	0.10%	0.008%
27	5.038	5.035	5.049	VV	266	1551	0.05%	0.004%
28	5.059	5.049	5.063	VV	303	1486	0.05%	0.004%
29	5.067	5.063	5.079	VV	212	1743	0.05%	0.005%
30	5.083	5.079	5.089	VV	225	948	0.03%	0.002%
31	5.092	5.089	5.099	VV	176	892	0.03%	0.002%
32	5.106	5.099	5.125	VV	208	2169	0.07%	0.006%
33	5.128	5.125	5.142	VV	148	1198	0.04%	0.003%
34	5.153	5.142	5.190	VV	187	4156	0.13%	0.011%
35	5.198	5.190	5.222	PV	108	2526	0.08%	0.007%
36	5.226	5.222	5.251	VV	179	2058	0.06%	0.005%

rteres

37	5.256	5.251	5.286	VV	218	2264	0.07%	0.006%
38	5.291	5.286	5.319	VV	118	2064	0.06%	0.005%
39	5.339	5.319	5.348	VV	249	2198	0.07%	0.006%
40	5.352	5.348	5.364	VV	131	1147	0.03%	0.003%
41	5.367	5.364	5.390	VV	171	1421	0.04%	0.004%
42	5.403	5.390	5.410	VV	140	932	0.03%	0.002%
43	5.431	5.410	5.445	VV	154	1877	0.06%	0.005%
44	5.476	5.445	5.487	PV	199	3080	0.09%	0.008%
45	5.491	5.487	5.515	VV	197	2111	0.06%	0.006%
46	5.518	5.515	5.574	VV	181	3925	0.12%	0.010%
47	5.582	5.574	5.605	VV	184	1956	0.06%	0.005%
48	5.610	5.605	5.614	PV	77	345	0.01%	0.001%
49	5.637	5.614	5.673	VV	249	5024	0.15%	0.013%
50	5.679	5.673	5.689	VV	112	725	0.02%	0.002%
51	5.693	5.689	5.701	VV	133	638	0.02%	0.002%
52	5.710	5.701	5.730	PV	174	1485	0.05%	0.004%
53	5.734	5.730	5.750	VV	152	1576	0.05%	0.004%
54	5.766	5.750	5.781	VV	217	3071	0.09%	0.008%
55	5.791	5.781	5.795	VV	241	1692	0.05%	0.004%
56	5.800	5.795	5.805	VV	234	1131	0.03%	0.003%
57	5.812	5.805	5.817	VV	240	1602	0.05%	0.004%
58	5.828	5.817	5.847	VV	283	4092	0.12%	0.011%
59	5.850	5.847	5.862	VV	214	1749	0.05%	0.005%
60	5.875	5.862	5.885	VV	243	3021	0.09%	0.008%
61	5.891	5.885	5.910	VV	308	3444	0.10%	0.009%
62	5.913	5.910	5.924	VV	284	2295	0.07%	0.006%
63	5.928	5.924	5.946	VV	301	3277	0.10%	0.009%
64	5.951	5.946	5.961	VV	245	1727	0.05%	0.005%
65	5.965	5.961	5.970	VV	235	896	0.03%	0.002%
66	5.979	5.970	5.985	VV	237	1576	0.05%	0.004%
67	5.994	5.985	5.997	VV	210	1178	0.04%	0.003%
68	6.009	5.997	6.019	VV	195	2205	0.07%	0.006%
69	6.027	6.019	6.046	VV	188	2360	0.07%	0.006%
70	6.051	6.046	6.060	VV	202	963	0.03%	0.003%
71	6.062	6.060	6.068	VV	127	467	0.01%	0.001%
72	6.072	6.068	6.079	VV	200	760	0.02%	0.002%
73	6.087	6.079	6.113	VV	194	2533	0.08%	0.007%
74	6.121	6.113	6.141	VV	311	1657	0.05%	0.004%
75	6.150	6.141	6.161	VV	185	1177	0.04%	0.003%
76	6.164	6.161	6.173	VV	192	831	0.03%	0.002%
77	6.177	6.173	6.183	VV	164	579	0.02%	0.002%
78	6.208	6.183	6.216	VV	455	3383	0.10%	0.009%
79	6.221	6.216	6.234	VV	160	1396	0.04%	0.004%
80	6.236	6.234	6.256	VV	404	2494	0.08%	0.007%
81	6.267	6.256	6.280	VV	313	2374	0.07%	0.006%
82	6.302	6.280	6.345	VV	371	6146	0.19%	0.016%
83	6.382	6.345	6.422	VV	664	12266	0.37%	0.032%
84	6.428	6.422	6.445	VV	178	1797	0.05%	0.005%
85	6.451	6.445	6.468	VV	189	1966	0.06%	0.005%
86	6.479	6.468	6.491	VV	187	2025	0.06%	0.005%
87	6.496	6.491	6.499	VV	147	514	0.02%	0.001%
88	6.503	6.499	6.511	VV	209	773	0.02%	0.002%
89	6.531	6.511	6.547	VV	256	3920	0.12%	0.010%

rteres

90	6.561	6.547	6.571	VV	378	3316	0.10%	0.009%
91	6.575	6.571	6.589	VV	292	1509	0.05%	0.004%
92	6.591	6.589	6.613	VV	189	1461	0.04%	0.004%
93	6.617	6.613	6.626	VV	119	674	0.02%	0.002%
94	6.629	6.626	6.634	VV	40	496	0.02%	0.001%
95	6.667	6.634	6.805	VV	272379	2967172	90.34%	7.761%
96	6.816	6.805	6.863	VV	852	25254	0.77%	0.066%
97	6.869	6.863	6.981	VV	669	38819	1.18%	0.102%
98	6.990	6.981	7.079	VV	462	20132	0.61%	0.053%
99	7.087	7.079	7.144	VV	258	8604	0.26%	0.023%
100	7.153	7.144	7.167	VV	254	2934	0.09%	0.008%
101	7.265	7.167	7.345	VV	417	31594	0.96%	0.083%
102	7.384	7.345	7.441	VV	896	33589	1.02%	0.088%
103	7.450	7.441	7.507	VV	574	13332	0.41%	0.035%
104	7.514	7.507	7.552	VV	240	6246	0.19%	0.016%
105	7.560	7.552	7.598	VV	241	4585	0.14%	0.012%
106	7.623	7.598	7.722	VV	470	14033	0.43%	0.037%
107	7.731	7.722	7.761	VV	90	1485	0.05%	0.004%
108	7.764	7.761	7.774	VV	120	487	0.01%	0.001%
109	7.781	7.774	7.827	VV	145	1660	0.05%	0.004%
110	7.836	7.827	7.860	PV	82	811	0.02%	0.002%
111	7.902	7.860	7.997	VV	1130	20722	0.63%	0.054%
112	8.075	7.997	8.134	VV	1025	21356	0.65%	0.056%
113	8.151	8.134	8.171	VV	184	2216	0.07%	0.006%
114	8.195	8.171	8.227	VV	764	10384	0.32%	0.027%
115	8.252	8.227	8.309	VV	863	12802	0.39%	0.033%
116	8.334	8.309	8.342	PV	131	1358	0.04%	0.004%
117	8.355	8.342	8.380	VV	110	1650	0.05%	0.004%
118	8.410	8.380	8.442	VV	269	6142	0.19%	0.016%
119	8.503	8.442	8.624	VV	261058	2990192	91.05%	7.821%
120	8.641	8.624	8.673	VV	1112	27811	0.85%	0.073%
121	8.681	8.673	8.813	VV	657	29134	0.89%	0.076%
122	8.861	8.813	8.913	VV	390	11350	0.35%	0.030%
123	8.938	8.913	8.977	VV	271	5729	0.17%	0.015%
124	9.009	8.977	9.028	VV	409	7664	0.23%	0.020%
125	9.045	9.028	9.086	VV	362	8250	0.25%	0.022%
126	9.101	9.086	9.144	VV	230	4147	0.13%	0.011%
127	9.159	9.144	9.168	VV	200	1672	0.05%	0.004%
128	9.176	9.168	9.205	VV	163	2054	0.06%	0.005%
129	9.233	9.205	9.259	VV	405	7450	0.23%	0.019%
130	9.266	9.259	9.313	VV	284	5476	0.17%	0.014%
131	9.338	9.313	9.362	VV	593	9172	0.28%	0.024%
132	9.385	9.362	9.459	VV	351	7671	0.23%	0.020%
133	9.525	9.459	9.597	VV	297	6775	0.21%	0.018%
134	9.624	9.597	9.669	PV	80	1657	0.05%	0.004%
135	9.674	9.669	9.682	VV	54	354	0.01%	0.001%
136	9.731	9.682	9.744	PV	325	7077	0.22%	0.019%
137	9.752	9.744	9.789	VV	332	6605	0.20%	0.017%
138	9.805	9.789	9.823	VV	230	3835	0.12%	0.010%
139	9.851	9.823	9.869	VV	269	5845	0.18%	0.015%
140	9.894	9.869	9.924	VV	1221	16192	0.49%	0.042%
141	9.948	9.924	9.963	VV	827	10324	0.31%	0.027%

rteres

142	9.991	9.963	10.087	VV	59620	1223680	37.26%	3.201%
143	10.116	10.087	10.401	VV	269090	3283906	99.99%	8.589%
144	10.409	10.401	10.422	VV	349	3596	0.11%	0.009%
145	10.461	10.422	10.624	VV	12790	264530	8.05%	0.692%
146	10.634	10.624	10.657	VV	459	6189	0.19%	0.016%
147	10.680	10.657	10.733	VV	526	13709	0.42%	0.036%
148	10.749	10.733	10.767	VV	252	4692	0.14%	0.012%
149	10.787	10.767	10.812	VV	291	6099	0.19%	0.016%
150	10.859	10.812	10.912	VV	629	20428	0.62%	0.053%
151	10.933	10.912	10.957	VV	307	6494	0.20%	0.017%
152	10.974	10.957	10.981	VV	247	3240	0.10%	0.008%
153	10.988	10.981	11.033	VV	278	5213	0.16%	0.014%
154	11.044	11.033	11.064	VV	187	1825	0.06%	0.005%
155	11.096	11.064	11.120	VV	199	4425	0.13%	0.012%
156	11.140	11.120	11.157	VV	190	3349	0.10%	0.009%
157	11.189	11.157	11.215	VV	462	11170	0.34%	0.029%
158	11.235	11.215	11.262	VV	486	10537	0.32%	0.028%
159	11.280	11.262	11.301	VV	404	7355	0.22%	0.019%
160	11.314	11.301	11.357	VV	416	8676	0.26%	0.023%
161	11.376	11.357	11.407	VV	299	6176	0.19%	0.016%
162	11.421	11.407	11.467	VV	195	4037	0.12%	0.011%
163	11.493	11.467	11.511	PV	202	3303	0.10%	0.009%
164	11.564	11.511	11.624	VV	271374	3241061	98.68%	8.477%
165	11.643	11.624	11.696	VV	1409	32272	0.98%	0.084%
166	11.725	11.696	11.746	VV	571	11559	0.35%	0.030%
167	11.760	11.746	11.794	VV	466	8288	0.25%	0.022%
168	11.816	11.794	11.834	VV	195	3254	0.10%	0.009%
169	11.872	11.834	11.901	VV	413	11568	0.35%	0.030%
170	11.912	11.901	11.935	VV	271	4660	0.14%	0.012%
171	11.953	11.935	11.967	VV	349	5869	0.18%	0.015%
172	11.993	11.967	12.022	VV	1464	32813	1.00%	0.086%
173	12.045	12.022	12.103	VV	3703	54765	1.67%	0.143%
174	12.115	12.103	12.176	VV	243	7424	0.23%	0.019%
175	12.235	12.176	12.264	VV	589	12852	0.39%	0.034%
176	12.295	12.264	12.311	VV	432	7953	0.24%	0.021%
177	12.331	12.311	12.362	VV	539	10784	0.33%	0.028%
178	12.368	12.362	12.375	VV	224	1402	0.04%	0.004%
179	12.384	12.375	12.409	VV	222	2560	0.08%	0.007%
180	12.439	12.409	12.466	PV	418	6485	0.20%	0.017%
181	12.492	12.466	12.541	VV	10862	147267	4.48%	0.385%
182	12.556	12.541	12.571	VV	1450	20245	0.62%	0.053%
183	12.586	12.571	12.641	VV	1449	39262	1.20%	0.103%
184	12.655	12.641	12.677	VV	758	13467	0.41%	0.035%
185	12.702	12.677	12.764	VV	910	25099	0.76%	0.066%
186	12.799	12.764	12.837	VV	1264	25948	0.79%	0.068%
187	12.877	12.837	12.922	VV	265635	3219365	98.02%	8.420%
188	12.949	12.922	13.064	VV	6391	155123	4.72%	0.406%
189	13.085	13.064	13.108	VV	720	14603	0.44%	0.038%
190	13.127	13.108	13.196	VV	662	21397	0.65%	0.056%
191	13.202	13.196	13.216	VV	316	3553	0.11%	0.009%
192	13.285	13.216	13.354	VV	1672	70098	2.13%	0.183%
193	13.376	13.354	13.394	VV	767	16132	0.49%	0.042%
194	13.401	13.394	13.422	VV	650	11018	0.34%	0.029%

rteres

195	13.436	13.422	13.470	VV	737	17410	0.53%	0.046%
196	13.492	13.470	13.536	VV	1066	31465	0.96%	0.082%
197	13.551	13.536	13.576	VV	816	16584	0.50%	0.043%
198	13.626	13.576	13.635	VV	782	22903	0.70%	0.060%
199	13.667	13.635	13.691	VV	866	26593	0.81%	0.070%
200	13.727	13.691	13.759	VV	1049	37778	1.15%	0.099%
201	13.766	13.759	13.793	VV	915	16655	0.51%	0.044%
202	13.919	13.793	13.969	VV	1942	107638	3.28%	0.282%
203	14.029	13.969	14.046	VV	1514	55217	1.68%	0.144%
204	14.079	14.046	14.157	VV	250482	3254411	99.09%	8.512%
205	14.196	14.157	14.264	VV	3494	103800	3.16%	0.271%
206	14.291	14.264	14.351	VV	1231	59119	1.80%	0.155%
207	14.370	14.351	14.381	VV	1162	19911	0.61%	0.052%
208	14.387	14.381	14.419	VV	1157	24758	0.75%	0.065%
209	14.443	14.419	14.452	VV	1289	23593	0.72%	0.062%
210	14.481	14.452	14.541	VV	2452	87849	2.67%	0.230%
211	14.577	14.541	14.619	VV	1248	53808	1.64%	0.141%
212	14.643	14.619	14.667	VV	2060	43457	1.32%	0.114%
213	14.702	14.667	14.711	VV	1321	31225	0.95%	0.082%
214	14.747	14.711	14.787	VV	1514	57814	1.76%	0.151%
215	14.804	14.787	14.829	VV	1152	25644	0.78%	0.067%
216	14.852	14.829	14.866	VV	1108	21620	0.66%	0.057%
217	14.900	14.866	14.942	VV	1183	46585	1.42%	0.122%
218	14.981	14.942	15.021	VV	115028	1601159	48.75%	4.188%
219	15.033	15.021	15.122	VV	1662	63825	1.94%	0.167%
220	15.186	15.122	15.316	VV	246487	3284270	100.00%	8.590%
221	15.325	15.316	15.351	VV	651	11954	0.36%	0.031%
222	15.380	15.351	15.442	VV	746	26855	0.82%	0.070%
223	15.459	15.442	15.474	VV	403	6347	0.19%	0.017%
224	15.487	15.474	15.505	VV	393	6254	0.19%	0.016%
225	15.520	15.505	15.534	VV	445	6337	0.19%	0.017%
226	15.568	15.534	15.679	VV	38703	772958	23.54%	2.022%
227	15.705	15.679	15.744	VV	2744	48334	1.47%	0.126%
228	15.773	15.744	15.809	VV	2894	43842	1.33%	0.115%
229	15.837	15.809	15.862	VV	552	10567	0.32%	0.028%
230	15.886	15.862	15.907	VV	252	4940	0.15%	0.013%
231	15.919	15.907	15.941	VV	145	1711	0.05%	0.004%
232	16.001	15.941	16.011	PV	333	7529	0.23%	0.020%
233	16.026	16.011	16.054	VV	251	4197	0.13%	0.011%
234	16.093	16.054	16.152	VV	1230	27982	0.85%	0.073%
235	16.210	16.152	16.256	VV	229967	3128515	95.26%	8.183%
236	16.265	16.256	16.315	VV	412	8198	0.25%	0.021%
237	16.347	16.315	16.372	VV	216	4261	0.13%	0.011%
238	16.401	16.372	16.454	PV	261	7059	0.21%	0.018%
239	16.501	16.454	16.537	VV	583	11847	0.36%	0.031%
240	16.591	16.537	16.639	VV	3650	87379	2.66%	0.229%
241	16.654	16.639	16.669	VV	783	12697	0.39%	0.033%
242	16.692	16.669	16.732	VV	3175	47983	1.46%	0.126%
243	16.771	16.732	16.806	VV	1191	30349	0.92%	0.079%
244	16.847	16.806	16.876	VV	548	17897	0.54%	0.047%
245	16.894	16.876	16.907	VV	408	6522	0.20%	0.017%
246	16.915	16.907	16.939	VV	319	5080	0.15%	0.013%

rteres

247	16.986	16.939	17.019	VV	1019	29089	0.89%	0.076%
248	17.042	17.019	17.059	VV	697	14762	0.45%	0.039%
249	17.077	17.059	17.097	VV	673	13849	0.42%	0.036%
250	17.161	17.097	17.197	VV	230390	3093551	94.19%	8.091%
251	17.206	17.197	17.227	VV	1557	20556	0.63%	0.054%
252	17.239	17.227	17.335	VV	690	18417	0.56%	0.048%
253	17.341	17.335	17.351	VV	30	429	0.01%	0.001%
254	17.393	17.351	17.427	PV	132	2729	0.08%	0.007%
			Sum of corrected areas:			38232802		

FG052225.M Sat May 24 02:09:33 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
Q2100-03		FG015901.D	FG052325	TETRACOSANE-d50 (SURROGA	mohammad	5/28/2025 1:49:22 AM	Peak Integrated by Software incorrectly
Q2100-04MS		FG015903.D	FG052325	N-OCTACOSANE	mohammad	5/28/2025 1:49:22 AM	Peak Integrated by Software incorrectly
Q2100-03		FG015905.D	FG052325	TETRACOSANE-d50 (SURROGA	mohammad	5/28/2025 1:49:22 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 # FG052325

Review By	yogesh	Review On	5/23/2025 3:06:55 PM		
Supervise By	mohammad	Supervise On	5/28/2025 1:49:22 AM		
SubDirectory	FG052325	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	FG015893.D	23 May 2025 10:29	YP\AJ	Ok
2	I.BLK	FG015894.D	23 May 2025 10:59	YP\AJ	Ok
3	50 PPM TRPH STD	FG015895.D	23 May 2025 12:30	YP\AJ	Ok
4	RT MARKER	FG015896.D	23 May 2025 13:28	YP\AJ	Ok
5	PB168150BL	FG015897.D	23 May 2025 13:58	YP\AJ	Ok
6	PB168150BS	FG015898.D	23 May 2025 14:27	YP\AJ	Ok
7	Q2100-01	FG015899.D	23 May 2025 14:56	YP\AJ	Ok
8	Q2100-02	FG015900.D	23 May 2025 15:26	YP\AJ	Ok
9	Q2100-03	FG015901.D	23 May 2025 15:55	YP\AJ	Ok,M
10	Q2100-04	FG015902.D	23 May 2025 16:24	YP\AJ	Ok
11	Q2100-04MS	FG015903.D	23 May 2025 16:54	YP\AJ	Ok,M
12	Q2100-04MSD	FG015904.D	23 May 2025 17:23	YP\AJ	Ok
13	Q2100-03	FG015905.D	23 May 2025 17:52	YP\AJ	Not Ok
14	I.BLK	FG015906.D	23 May 2025 18:22	YP\AJ	Ok
15	50 PPM TRPH STD	FG015907.D	23 May 2025 18:51	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 # 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

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 # FG052325

Review By	yogesh	Review On	5/23/2025 3:06:55 PM		
Supervise By	mohammad	Supervise On	5/28/2025 1:49:22 AM		
SubDirectory	FG052325	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		FG015893.D	23 May 2025 10:29		YP\AJ	Ok
2	I.BLK		FG015894.D	23 May 2025 10:59		YP\AJ	Ok
3	50 PPM TRPH STD		FG015895.D	23 May 2025 12:30		YP\AJ	Ok
4	RT MARKER		FG015896.D	23 May 2025 13:28		YP\AJ	Ok
5	PB168150BL		FG015897.D	23 May 2025 13:58		YP\AJ	Ok
6	PB168150BS		FG015898.D	23 May 2025 14:27		YP\AJ	Ok
7	Q2100-01		FG015899.D	23 May 2025 14:56		YP\AJ	Ok
8	Q2100-02		FG015900.D	23 May 2025 15:26		YP\AJ	Ok
9	Q2100-03		FG015901.D	23 May 2025 15:55		YP\AJ	Ok,M
10	Q2100-04		FG015902.D	23 May 2025 16:24		YP\AJ	Ok
11	Q2100-04MS		FG015903.D	23 May 2025 16:54		YP\AJ	Ok,M
12	Q2100-04MSD		FG015904.D	23 May 2025 17:23		YP\AJ	Ok
13	Q2100-03		FG015905.D	23 May 2025 17:52	not required	YP\AJ	Not Ok
14	I.BLK		FG015906.D	23 May 2025 18:22		YP\AJ	Ok
15	50 PPM TRPH STD		FG015907.D	23 May 2025 18:51		YP\AJ	Ok

M : Manual Integration

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PB168150

SOP ID:	M3541-ASE Extraction-14				
Clean Up SOP #:	N/A			**Extraction Start Date :**	05/23/2025
Matrix :	Solid			**Extraction Start Time :**	10:10
Weigh By:	EH	**Extraction By:**	RJ	**Extraction End Date :**	05/23/2025
Balance check:	RJ	**Filter By:**	RJ	**Extraction End Time :**	13:25
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	20 PPM	PP24162
Surrogate	1.0ML	20 PPM	PP24180
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	EP2614
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:

1.5 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
5/23/25	RS (B4 lab)	Y-P-PEST-IP CJ.
13:30	**Preparation Group**	**Analysis Group**

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PrepBatch ID : PB168150

Analytical Method: M3541-ASE Extraction-14

Concentration Date: 05/23/2025

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB168150BL	PB168150BL	Diesel Range Organics	30.01	N/A	ritesh	Evelyn	1			U2-1
PB168150BS	PB168150BS	Diesel Range Organics	30.03	N/A	ritesh	Evelyn	1			2
Q2100-01	TP-16	Diesel Range Organics	30.05	N/A	ritesh	Evelyn	1	E		3
Q2100-02	TP-22	Diesel Range Organics	30.09	N/A	ritesh	Evelyn	1	E		4
Q2100-03	TP-21	Diesel Range Organics	30.04	N/A	ritesh	Evelyn	1	E		5
Q2100-04	TP-45	Diesel Range Organics	30.02	N/A	ritesh	Evelyn	1	E		6
Q2100-04MS	TP-45MS	Diesel Range Organics	30.05	N/A	ritesh	Evelyn	1	E		U3-1
Q2100-04MSD	TP-45MSD	Diesel Range Organics	30.08	N/A	ritesh	Evelyn	1	E		2

RS 5/23

* **Extracts relinquished on the same date as received.**

Q2100 10:10

WORKLIST(Hardcopy Internal Chain)

WorkList Name : Q2100D **WorkList ID :** 189741 **Department :** Extraction **Date :** 05-23-2025 08:45:52

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2100-01	TP-16	Solid	Diesel Range Organics	Cool 4 deg C	CAMP02	L41	05/20/2025	8015D
Q2100-02	TP-22	Solid	Diesel Range Organics	Cool 4 deg C	CAMP02	L41	05/20/2025	8015D
Q2100-03	TP-21	Solid	Diesel Range Organics	Cool 4 deg C	CAMP02	L41	05/20/2025	8015D
Q2100-04	TP-45	Solid	Diesel Range Organics	Cool 4 deg C	CAMP02	L41	05/20/2025	8015D

807 of 879

Date/Time 05/23/25 10:05
Raw Sample Received by: RJ (ETL-0606)
Raw Sample Relinquished by: CR

Date/Time 05/23/25 10:20
Raw Sample Received by: CR
Raw Sample Relinquished by: RJ (ETL-0606)

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

LAB CHRONICLE

OrderID:	Q2100	**OrderDate:**	5/20/2025 3:22:00 PM
Client:	CDM Smith	**Project:**	South River WM Replacement
Contact:	Marcie Ann Encinas	**Location:**	L41,VOA Ref. #2 Soil

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2100-01	**TP-16**	**SOIL**			**05/19/25**			**05/20/25**
			Diesel Range Organics	8015D		05/23/25	05/23/25	
			Gasoline Range Organics	8015D			05/21/25	
			Pesticide-TCL	8081B		05/22/25	05/22/25	
			PCB	8082A		05/22/25	05/22/25	
Q2100-02	**TP-22**	**SOIL**			**05/19/25**			**05/20/25**
			Diesel Range Organics	8015D		05/23/25	05/23/25	
			Gasoline Range Organics	8015D			05/21/25	
			Pesticide-TCL	8081B		05/22/25	05/22/25	
			PCB	8082A		05/22/25	05/22/25	
Q2100-03	**TP-21**	**SOIL**			**05/20/25**			**05/20/25**
			Diesel Range Organics	8015D		05/23/25	05/23/25	
			Gasoline Range Organics	8015D			05/21/25	
			PCB	8082A		05/22/25	05/22/25	
			Pesticide-TCL	8081B		05/22/25	05/22/25	
Q2100-04	**TP-45**	**SOIL**			**05/20/25**			**05/20/25**
			Diesel Range Organics	8015D		05/23/25	05/23/25	
			Gasoline Range Organics	8015D			05/21/25	
			PCB	8082A		05/22/25	05/22/25	
			Pesticide-TCL	8081B		05/22/25	05/22/25	

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Hit Summary Sheet
SW-846

SDG No.: Q2100 **Order ID:** Q2100

Client: CDM Smith **Project ID:** South River WM Replacement

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID : TP-16								
Q2100-01	TP-16	SOIL	Aluminum	2640		0.82	4.90	mg/Kg
Q2100-01	TP-16	SOIL	Arsenic	5.94		0.19	0.98	mg/Kg
Q2100-01	TP-16	SOIL	Barium	5.69		0.72	4.90	mg/Kg
Q2100-01	TP-16	SOIL	Beryllium	0.82		0.024	0.29	mg/Kg
Q2100-01	TP-16	SOIL	Cadmium	1.03		0.024	0.29	mg/Kg
Q2100-01	TP-16	SOIL	Calcium	698		10.9	97.9	mg/Kg
Q2100-01	TP-16	SOIL	Chromium	14.4		0.046	0.49	mg/Kg
Q2100-01	TP-16	SOIL	Cobalt	3.09		0.098	1.47	mg/Kg
Q2100-01	TP-16	SOIL	Copper	24.8		0.22	0.98	mg/Kg
Q2100-01	TP-16	SOIL	Iron	46600		3.91	4.90	mg/Kg
Q2100-01	TP-16	SOIL	Lead	5.44		0.13	0.59	mg/Kg
Q2100-01	TP-16	SOIL	Magnesium	97.4	J	11.8	97.9	mg/Kg
Q2100-01	TP-16	SOIL	Manganese	130		0.14	0.98	mg/Kg
Q2100-01	TP-16	SOIL	Nickel	4.36		0.13	1.96	mg/Kg
Q2100-01	TP-16	SOIL	Potassium	165		27.1	97.9	mg/Kg
Q2100-01	TP-16	SOIL	Sodium	246		17.4	97.9	mg/Kg
Q2100-01	TP-16	SOIL	Vanadium	31.3		0.25	1.96	mg/Kg
Q2100-01	TP-16	SOIL	Zinc	22.6		0.23	1.96	mg/Kg
Client ID : TP-22								
Q2100-02	TP-22	SOIL	Aluminum	3840		0.90	5.34	mg/Kg
Q2100-02	TP-22	SOIL	Arsenic	6.80		0.20	1.07	mg/Kg
Q2100-02	TP-22	SOIL	Barium	16.1		0.78	5.34	mg/Kg
Q2100-02	TP-22	SOIL	Beryllium	0.73		0.027	0.32	mg/Kg
Q2100-02	TP-22	SOIL	Cadmium	0.84		0.026	0.32	mg/Kg
Q2100-02	TP-22	SOIL	Calcium	1640		11.9	107	mg/Kg
Q2100-02	TP-22	SOIL	Chromium	8.92		0.050	0.53	mg/Kg
Q2100-02	TP-22	SOIL	Cobalt	3.34		0.11	1.60	mg/Kg
Q2100-02	TP-22	SOIL	Copper	18.4		0.24	1.07	mg/Kg
Q2100-02	TP-22	SOIL	Iron	39000		4.26	5.34	mg/Kg
Q2100-02	TP-22	SOIL	Lead	17.7		0.14	0.64	mg/Kg
Q2100-02	TP-22	SOIL	Magnesium	553		12.8	107	mg/Kg
Q2100-02	TP-22	SOIL	Manganese	154		0.15	1.07	mg/Kg
Q2100-02	TP-22	SOIL	Mercury	0.091		0.0080	0.015	mg/Kg
Q2100-02	TP-22	SOIL	Nickel	3.19		0.14	2.14	mg/Kg
Q2100-02	TP-22	SOIL	Potassium	369		29.6	107	mg/Kg
Q2100-02	TP-22	SOIL	Sodium	675		19.0	107	mg/Kg
Q2100-02	TP-22	SOIL	Vanadium	22.3		0.27	2.14	mg/Kg

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Hit Summary Sheet
SW-846

SDG No.: Q2100 **Order ID:** Q2100

Client: CDM Smith **Project ID:** South River WM Replacement

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Q2100-02	TP-22	SOIL	Zinc	14.8		0.25	2.14	mg/Kg
Client ID : TP-21								
Q2100-03	TP-21	SOIL	Aluminum	3330		0.99	5.87	mg/Kg
Q2100-03	TP-21	SOIL	Arsenic	10.3		0.22	1.17	mg/Kg
Q2100-03	TP-21	SOIL	Barium	18.4		0.86	5.87	mg/Kg
Q2100-03	TP-21	SOIL	Beryllium	0.55		0.029	0.35	mg/Kg
Q2100-03	TP-21	SOIL	Cadmium	0.78		0.028	0.35	mg/Kg
Q2100-03	TP-21	SOIL	Calcium	1960		13.0	117	mg/Kg
Q2100-03	TP-21	SOIL	Chromium	12.2		0.055	0.59	mg/Kg
Q2100-03	TP-21	SOIL	Cobalt	2.72		0.12	1.76	mg/Kg
Q2100-03	TP-21	SOIL	Copper	19.7		0.26	1.17	mg/Kg
Q2100-03	TP-21	SOIL	Iron	27800		4.68	5.87	mg/Kg
Q2100-03	TP-21	SOIL	Lead	23.7		0.15	0.70	mg/Kg
Q2100-03	TP-21	SOIL	Magnesium	332		14.1	117	mg/Kg
Q2100-03	TP-21	SOIL	Manganese	44.1		0.16	1.17	mg/Kg
Q2100-03	TP-21	SOIL	Mercury	0.020		0.010	0.017	mg/Kg
Q2100-03	TP-21	SOIL	Nickel	2.61		0.15	2.35	mg/Kg
Q2100-03	TP-21	SOIL	Potassium	383		32.5	117	mg/Kg
Q2100-03	TP-21	SOIL	Sodium	794		20.9	117	mg/Kg
Q2100-03	TP-21	SOIL	Vanadium	27.7		0.29	2.35	mg/Kg
Q2100-03	TP-21	SOIL	Zinc	11.5		0.27	2.35	mg/Kg
Client ID : TP-45								
Q2100-04	TP-45	SOIL	Aluminum	3260		1.01	6.02	mg/Kg
Q2100-04	TP-45	SOIL	Arsenic	8.43		0.23	1.20	mg/Kg
Q2100-04	TP-45	SOIL	Barium	14.4		0.88	6.02	mg/Kg
Q2100-04	TP-45	SOIL	Beryllium	0.53		0.030	0.36	mg/Kg
Q2100-04	TP-45	SOIL	Cadmium	0.71		0.029	0.36	mg/Kg
Q2100-04	TP-45	SOIL	Calcium	700		13.4	120	mg/Kg
Q2100-04	TP-45	SOIL	Chromium	10.9		0.057	0.60	mg/Kg
Q2100-04	TP-45	SOIL	Cobalt	1.78	J	0.12	1.81	mg/Kg
Q2100-04	TP-45	SOIL	Copper	16.1		0.27	1.20	mg/Kg
Q2100-04	TP-45	SOIL	Iron	32800		4.80	6.02	mg/Kg
Q2100-04	TP-45	SOIL	Lead	11.0		0.16	0.72	mg/Kg
Q2100-04	TP-45	SOIL	Magnesium	332		14.4	120	mg/Kg
Q2100-04	TP-45	SOIL	Manganese	49.1		0.17	1.20	mg/Kg
Q2100-04	TP-45	SOIL	Mercury	0.023		0.010	0.018	mg/Kg
Q2100-04	TP-45	SOIL	Nickel	1.84	J	0.16	2.41	mg/Kg
Q2100-04	TP-45	SOIL	Potassium	389		33.4	120	mg/Kg
Q2100-04	TP-45	SOIL	Sodium	297		21.4	120	mg/Kg

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Hit Summary Sheet
SW-846

SDG No.: Q2100 **Order ID:** Q2100

Client: CDM Smith **Project ID:** South River WM Replacement

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Q2100-04	TP-45	SOIL	Vanadium	20.3		0.30	2.41	mg/Kg
Q2100-04	TP-45	SOIL	Zinc	9.77		0.28	2.41	mg/Kg

SAMPLE DATA

Alliance TECHNICAL GROUP
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Report of Analysis

Client:	CDM Smith	Date Collected:	05/19/25
Project:	South River WM Replacement	Date Received:	05/20/25
Client Sample ID:	TP-16	SDG No.:	Q2100
Lab Sample ID:	Q2100-01	Matrix:	SOIL
Level (low/med):	low	% Solid:	88.4

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	2640	*	1	0.82	4.90	mg/Kg	05/21/25 14:05	05/30/25 17:33	6010D	SW3050
7440-36-0	Antimony	0.22	UN*	1	0.22	2.45	mg/Kg	05/21/25 14:05	05/30/25 17:33	6010D	SW3050
7440-38-2	Arsenic	5.94	*	1	0.19	0.98	mg/Kg	05/21/25 14:05	05/30/25 17:33	6010D	SW3050
7440-39-3	Barium	5.69	*	1	0.72	4.90	mg/Kg	05/21/25 14:05	05/30/25 17:33	6010D	SW3050
7440-41-7	Beryllium	0.82	*	1	0.024	0.29	mg/Kg	05/21/25 14:05	05/30/25 17:33	6010D	SW3050
7440-43-9	Cadmium	1.03		1	0.024	0.29	mg/Kg	05/21/25 14:05	05/30/25 17:33	6010D	SW3050
7440-70-2	Calcium	698	*	1	10.9	97.9	mg/Kg	05/21/25 14:05	05/30/25 17:33	6010D	SW3050
7440-47-3	Chromium	14.4	*	1	0.046	0.49	mg/Kg	05/21/25 14:05	05/30/25 17:33	6010D	SW3050
7440-48-4	Cobalt	3.09	N*	1	0.098	1.47	mg/Kg	05/21/25 14:05	05/30/25 17:33	6010D	SW3050
7440-50-8	Copper	24.8	*	1	0.22	0.98	mg/Kg	05/21/25 14:05	05/30/25 17:33	6010D	SW3050
7439-89-6	Iron	46600	*	1	3.91	4.90	mg/Kg	05/21/25 14:05	05/30/25 17:33	6010D	SW3050
7439-92-1	Lead	5.44		1	0.13	0.59	mg/Kg	05/21/25 14:05	05/30/25 17:33	6010D	SW3050
7439-95-4	Magnesium	97.4	JN*	1	11.8	97.9	mg/Kg	05/21/25 14:05	05/30/25 17:33	6010D	SW3050
7439-96-5	Manganese	130	*	1	0.14	0.98	mg/Kg	05/21/25 14:05	05/30/25 17:33	6010D	SW3050
7439-97-6	Mercury	0.0070	U	1	0.0070	0.013	mg/Kg	05/23/25 09:50	05/23/25 13:47	7471B	
7440-02-0	Nickel	4.36	*	1	0.13	1.96	mg/Kg	05/21/25 14:05	05/30/25 17:33	6010D	SW3050
7440-09-7	Potassium	165	*	1	27.1	97.9	mg/Kg	05/21/25 14:05	05/30/25 17:33	6010D	SW3050
7782-49-2	Selenium	0.26	U	1	0.26	0.98	mg/Kg	05/21/25 14:05	05/30/25 17:33	6010D	SW3050
7440-22-4	Silver	0.12	U*	1	0.12	0.49	mg/Kg	05/21/25 14:05	05/30/25 17:33	6010D	SW3050
7440-23-5	Sodium	246	N	1	17.4	97.9	mg/Kg	05/21/25 14:05	05/30/25 17:33	6010D	SW3050
7440-28-0	Thallium	0.23	U	1	0.23	1.96	mg/Kg	05/21/25 14:05	05/30/25 17:33	6010D	SW3050
7440-62-2	Vanadium	31.3	N*	1	0.25	1.96	mg/Kg	05/21/25 14:05	05/30/25 17:33	6010D	SW3050
7440-66-6	Zinc	22.6	N*	1	0.23	1.96	mg/Kg	05/21/25 14:05	05/30/25 17:33	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

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Fax : 908 789 8922

Report of Analysis

Client:	CDM Smith	Date Collected:	05/19/25
Project:	South River WM Replacement	Date Received:	05/20/25
Client Sample ID:	TP-22	SDG No.:	Q2100
Lab Sample ID:	Q2100-02	Matrix:	SOIL
Level (low/med):	low	% Solid:	84

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	3840	*	1	0.90	5.34	mg/Kg	05/21/25 14:05	05/30/25 17:37	6010D	SW3050
7440-36-0	Antimony	0.24	UN*	1	0.24	2.67	mg/Kg	05/21/25 14:05	05/30/25 17:37	6010D	SW3050
7440-38-2	Arsenic	6.80	*	1	0.20	1.07	mg/Kg	05/21/25 14:05	05/30/25 17:37	6010D	SW3050
7440-39-3	Barium	16.1	*	1	0.78	5.34	mg/Kg	05/21/25 14:05	05/30/25 17:37	6010D	SW3050
7440-41-7	Beryllium	0.73	*	1	0.027	0.32	mg/Kg	05/21/25 14:05	05/30/25 17:37	6010D	SW3050
7440-43-9	Cadmium	0.84		1	0.026	0.32	mg/Kg	05/21/25 14:05	05/30/25 17:37	6010D	SW3050
7440-70-2	Calcium	1640	*	1	11.9	107	mg/Kg	05/21/25 14:05	05/30/25 17:37	6010D	SW3050
7440-47-3	Chromium	8.92	*	1	0.050	0.53	mg/Kg	05/21/25 14:05	05/30/25 17:37	6010D	SW3050
7440-48-4	Cobalt	3.34	N*	1	0.11	1.60	mg/Kg	05/21/25 14:05	05/30/25 17:37	6010D	SW3050
7440-50-8	Copper	18.4	*	1	0.24	1.07	mg/Kg	05/21/25 14:05	05/30/25 17:37	6010D	SW3050
7439-89-6	Iron	39000	*	1	4.26	5.34	mg/Kg	05/21/25 14:05	05/30/25 17:37	6010D	SW3050
7439-92-1	Lead	17.7		1	0.14	0.64	mg/Kg	05/21/25 14:05	05/30/25 17:37	6010D	SW3050
7439-95-4	Magnesium	553	N*	1	12.8	107	mg/Kg	05/21/25 14:05	05/30/25 17:37	6010D	SW3050
7439-96-5	Manganese	154	*	1	0.15	1.07	mg/Kg	05/21/25 14:05	05/30/25 17:37	6010D	SW3050
7439-97-6	Mercury	0.091		1	0.0080	0.015	mg/Kg	05/23/25 09:50	05/23/25 13:49	7471B	
7440-02-0	Nickel	3.19	*	1	0.14	2.14	mg/Kg	05/21/25 14:05	05/30/25 17:37	6010D	SW3050
7440-09-7	Potassium	369	*	1	29.6	107	mg/Kg	05/21/25 14:05	05/30/25 17:37	6010D	SW3050
7782-49-2	Selenium	0.28	U	1	0.28	1.07	mg/Kg	05/21/25 14:05	05/30/25 17:37	6010D	SW3050
7440-22-4	Silver	0.13	U*	1	0.13	0.53	mg/Kg	05/21/25 14:05	05/30/25 17:37	6010D	SW3050
7440-23-5	Sodium	675	N	1	19.0	107	mg/Kg	05/21/25 14:05	05/30/25 17:37	6010D	SW3050
7440-28-0	Thallium	0.25	U	1	0.25	2.14	mg/Kg	05/21/25 14:05	05/30/25 17:37	6010D	SW3050
7440-62-2	Vanadium	22.3	N*	1	0.27	2.14	mg/Kg	05/21/25 14:05	05/30/25 17:37	6010D	SW3050
7440-66-6	Zinc	14.8	N*	1	0.25	2.14	mg/Kg	05/21/25 14:05	05/30/25 17:37	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
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Fax : 908 789 8922

Report of Analysis

Client:	CDM Smith	Date Collected:	05/20/25
Project:	South River WM Replacement	Date Received:	05/20/25
Client Sample ID:	TP-21	SDG No.:	Q2100
Lab Sample ID:	Q2100-03	Matrix:	SOIL
Level (low/med):	low	% Solid:	78.2

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	3330	*	1	0.99	5.87	mg/Kg	05/21/25 14:05	05/30/25 17:50	6010D	SW3050
7440-36-0	Antimony	0.26	UN*	1	0.26	2.93	mg/Kg	05/21/25 14:05	05/30/25 17:50	6010D	SW3050
7440-38-2	Arsenic	10.3	*	1	0.22	1.17	mg/Kg	05/21/25 14:05	05/30/25 17:50	6010D	SW3050
7440-39-3	Barium	18.4	*	1	0.86	5.87	mg/Kg	05/21/25 14:05	05/30/25 17:50	6010D	SW3050
7440-41-7	Beryllium	0.55	*	1	0.029	0.35	mg/Kg	05/21/25 14:05	05/30/25 17:50	6010D	SW3050
7440-43-9	Cadmium	0.78		1	0.028	0.35	mg/Kg	05/21/25 14:05	05/30/25 17:50	6010D	SW3050
7440-70-2	Calcium	1960	*	1	13.0	117	mg/Kg	05/21/25 14:05	05/30/25 17:50	6010D	SW3050
7440-47-3	Chromium	12.2	*	1	0.055	0.59	mg/Kg	05/21/25 14:05	05/30/25 17:50	6010D	SW3050
7440-48-4	Cobalt	2.72	N*	1	0.12	1.76	mg/Kg	05/21/25 14:05	05/30/25 17:50	6010D	SW3050
7440-50-8	Copper	19.7	*	1	0.26	1.17	mg/Kg	05/21/25 14:05	05/30/25 17:50	6010D	SW3050
7439-89-6	Iron	27800	*	1	4.68	5.87	mg/Kg	05/21/25 14:05	05/30/25 17:50	6010D	SW3050
7439-92-1	Lead	23.7		1	0.15	0.70	mg/Kg	05/21/25 14:05	05/30/25 17:50	6010D	SW3050
7439-95-4	Magnesium	332	N*	1	14.1	117	mg/Kg	05/21/25 14:05	05/30/25 17:50	6010D	SW3050
7439-96-5	Manganese	44.1	*	1	0.16	1.17	mg/Kg	05/21/25 14:05	05/30/25 17:50	6010D	SW3050
7439-97-6	Mercury	0.020		1	0.010	0.017	mg/Kg	05/23/25 09:50	05/23/25 13:51	7471B	
7440-02-0	Nickel	2.61	*	1	0.15	2.35	mg/Kg	05/21/25 14:05	05/30/25 17:50	6010D	SW3050
7440-09-7	Potassium	383	*	1	32.5	117	mg/Kg	05/21/25 14:05	05/30/25 17:50	6010D	SW3050
7782-49-2	Selenium	0.31	U	1	0.31	1.17	mg/Kg	05/21/25 14:05	05/30/25 17:50	6010D	SW3050
7440-22-4	Silver	0.14	U*	1	0.14	0.59	mg/Kg	05/21/25 14:05	05/30/25 17:50	6010D	SW3050
7440-23-5	Sodium	794	N	1	20.9	117	mg/Kg	05/21/25 14:05	05/30/25 17:50	6010D	SW3050
7440-28-0	Thallium	0.27	U	1	0.27	2.35	mg/Kg	05/21/25 14:05	05/30/25 17:50	6010D	SW3050
7440-62-2	Vanadium	27.7	N*	1	0.29	2.35	mg/Kg	05/21/25 14:05	05/30/25 17:50	6010D	SW3050
7440-66-6	Zinc	11.5	N*	1	0.27	2.35	mg/Kg	05/21/25 14:05	05/30/25 17:50	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

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Report of Analysis

Client:	CDM Smith	Date Collected:	05/20/25
Project:	South River WM Replacement	Date Received:	05/20/25
Client Sample ID:	TP-45	SDG No.:	Q2100
Lab Sample ID:	Q2100-04	Matrix:	SOIL
Level (low/med):	low	% Solid:	76.2

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	3260	*	1	1.01	6.02	mg/Kg	05/21/25 14:05	05/30/25 17:54	6010D	SW3050
7440-36-0	Antimony	0.27	UN*	1	0.27	3.01	mg/Kg	05/21/25 14:05	05/30/25 17:54	6010D	SW3050
7440-38-2	Arsenic	8.43	*	1	0.23	1.20	mg/Kg	05/21/25 14:05	05/30/25 17:54	6010D	SW3050
7440-39-3	Barium	14.4	*	1	0.88	6.02	mg/Kg	05/21/25 14:05	05/30/25 17:54	6010D	SW3050
7440-41-7	Beryllium	0.53	*	1	0.030	0.36	mg/Kg	05/21/25 14:05	05/30/25 17:54	6010D	SW3050
7440-43-9	Cadmium	0.71		1	0.029	0.36	mg/Kg	05/21/25 14:05	05/30/25 17:54	6010D	SW3050
7440-70-2	Calcium	700	*	1	13.4	120	mg/Kg	05/21/25 14:05	05/30/25 17:54	6010D	SW3050
7440-47-3	Chromium	10.9	*	1	0.057	0.60	mg/Kg	05/21/25 14:05	05/30/25 17:54	6010D	SW3050
7440-48-4	Cobalt	1.78	JN*	1	0.12	1.81	mg/Kg	05/21/25 14:05	05/30/25 17:54	6010D	SW3050
7440-50-8	Copper	16.1	*	1	0.27	1.20	mg/Kg	05/21/25 14:05	05/30/25 17:54	6010D	SW3050
7439-89-6	Iron	32800	*	1	4.80	6.02	mg/Kg	05/21/25 14:05	05/30/25 17:54	6010D	SW3050
7439-92-1	Lead	11.0		1	0.16	0.72	mg/Kg	05/21/25 14:05	05/30/25 17:54	6010D	SW3050
7439-95-4	Magnesium	332	N*	1	14.4	120	mg/Kg	05/21/25 14:05	05/30/25 17:54	6010D	SW3050
7439-96-5	Manganese	49.1	*	1	0.17	1.20	mg/Kg	05/21/25 14:05	05/30/25 17:54	6010D	SW3050
7439-97-6	Mercury	0.023		1	0.010	0.018	mg/Kg	05/23/25 09:50	05/23/25 13:54	7471B	
7440-02-0	Nickel	1.84	J*	1	0.16	2.41	mg/Kg	05/21/25 14:05	05/30/25 17:54	6010D	SW3050
7440-09-7	Potassium	389	*	1	33.4	120	mg/Kg	05/21/25 14:05	05/30/25 17:54	6010D	SW3050
7782-49-2	Selenium	0.31	U	1	0.31	1.20	mg/Kg	05/21/25 14:05	05/30/25 17:54	6010D	SW3050
7440-22-4	Silver	0.14	U*	1	0.14	0.60	mg/Kg	05/21/25 14:05	05/30/25 17:54	6010D	SW3050
7440-23-5	Sodium	297	N	1	21.4	120	mg/Kg	05/21/25 14:05	05/30/25 17:54	6010D	SW3050
7440-28-0	Thallium	0.28	U	1	0.28	2.41	mg/Kg	05/21/25 14:05	05/30/25 17:54	6010D	SW3050
7440-62-2	Vanadium	20.3	N*	1	0.30	2.41	mg/Kg	05/21/25 14:05	05/30/25 17:54	6010D	SW3050
7440-66-6	Zinc	9.77	N*	1	0.28	2.41	mg/Kg	05/21/25 14:05	05/30/25 17:54	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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Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: CDM Smith **SDG No.:** Q2100

Contract: CAMP02 **Lab Code:** CHEM **Case No.:** Q2100 **SAS No.:** Q2100

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB16	Mercury	0.20	+/-0.20	U	0.20	CV	05/23/2025	12:31	LB135901

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: CDM Smith **SDG No.:** Q2100

Contract: CAMP02 **Lab Code:** CHEM **Case No.:** Q2100 **SAS No.:** Q2100

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB60	Mercury	0.20	+/-0.20	U	0.20	CV	05/23/2025	12:36	LB135901
CCB61	Mercury	0.20	+/-0.20	U	0.20	CV	05/23/2025	13:03	LB135901
CCB62	Mercury	0.20	+/-0.20	U	0.20	CV	05/23/2025	13:31	LB135901
CCB63	Mercury	0.20	+/-0.20	U	0.20	CV	05/23/2025	13:58	LB135901
CCB64	Mercury	0.20	+/-0.20	U	0.20	CV	05/23/2025	14:23	LB135901
CCB65	Mercury	0.20	+/-0.20	U	0.20	CV	05/23/2025	14:39	LB135901

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: CDM Smith **SDG No.:** Q2100

Contract: CAMP02 **Lab Code:** CHEM **Case No.:** Q2100 **SAS No.:** Q2100

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB01	Aluminum	100	+/-100	U	100	P	05/30/2025	15:26	LB135969
	Antimony	50.0	+/-50.0	U	50.0	P	05/30/2025	15:26	LB135969
	Arsenic	20.0	+/-20.0	U	20.0	P	05/30/2025	15:26	LB135969
	Barium	100	+/-100	U	100	P	05/30/2025	15:26	LB135969
	Beryllium	6.00	+/-6.00	U	6.00	P	05/30/2025	15:26	LB135969
	Cadmium	6.00	+/-6.00	U	6.00	P	05/30/2025	15:26	LB135969
	Calcium	2000	+/-2000	U	2000	P	05/30/2025	15:26	LB135969
	Chromium	10.0	+/-10.0	U	10.0	P	05/30/2025	15:26	LB135969
	Cobalt	30.0	+/-30.0	U	30.0	P	05/30/2025	15:26	LB135969
	Copper	20.0	+/-20.0	U	20.0	P	05/30/2025	15:26	LB135969
	Iron	100	+/-100	U	100	P	05/30/2025	15:26	LB135969
	Lead	12.0	+/-12.0	U	12.0	P	05/30/2025	15:26	LB135969
	Magnesium	2000	+/-2000	U	2000	P	05/30/2025	15:26	LB135969
	Manganese	20.0	+/-20.0	U	20.0	P	05/30/2025	15:26	LB135969
	Nickel	40.0	+/-40.0	U	40.0	P	05/30/2025	15:26	LB135969
	Potassium	2000	+/-2000	U	2000	P	05/30/2025	15:26	LB135969
	Selenium	20.0	+/-20.0	U	20.0	P	05/30/2025	15:26	LB135969
	Silver	10.0	+/-10.0	U	10.0	P	05/30/2025	15:26	LB135969
	Sodium	2000	+/-2000	U	2000	P	05/30/2025	15:26	LB135969
	Thallium	40.0	+/-40.0	U	40.0	P	05/30/2025	15:26	LB135969
	Vanadium	40.0	+/-40.0	U	40.0	P	05/30/2025	15:26	LB135969
	Zinc	40.0	+/-40.0	U	40.0	P	05/30/2025	15:26	LB135969

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: CDM Smith **SDG No.:** Q2100

Contract: CAMP02 **Lab Code:** CHEM **Case No.:** Q2100 **SAS No.:** Q2100

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB01	Aluminum	100	+/-100	U	100	P	05/30/2025	16:06	LB135969
	Antimony	50.0	+/-50.0	U	50.0	P	05/30/2025	16:06	LB135969
	Arsenic	20.0	+/-20.0	U	20.0	P	05/30/2025	16:06	LB135969
	Barium	100	+/-100	U	100	P	05/30/2025	16:06	LB135969
	Beryllium	6.00	+/-6.00	U	6.00	P	05/30/2025	16:06	LB135969
	Cadmium	6.00	+/-6.00	U	6.00	P	05/30/2025	16:06	LB135969
	Calcium	2000	+/-2000	U	2000	P	05/30/2025	16:06	LB135969
	Chromium	10.0	+/-10.0	U	10.0	P	05/30/2025	16:06	LB135969
	Cobalt	30.0	+/-30.0	U	30.0	P	05/30/2025	16:06	LB135969
	Copper	20.0	+/-20.0	U	20.0	P	05/30/2025	16:06	LB135969
	Iron	100	+/-100	U	100	P	05/30/2025	16:06	LB135969
	Lead	12.0	+/-12.0	U	12.0	P	05/30/2025	16:06	LB135969
	Magnesium	2000	+/-2000	U	2000	P	05/30/2025	16:06	LB135969
	Manganese	20.0	+/-20.0	U	20.0	P	05/30/2025	16:06	LB135969
	Nickel	40.0	+/-40.0	U	40.0	P	05/30/2025	16:06	LB135969
	Potassium	2000	+/-2000	U	2000	P	05/30/2025	16:06	LB135969
	Selenium	20.0	+/-20.0	U	20.0	P	05/30/2025	16:06	LB135969
	Silver	10.0	+/-10.0	U	10.0	P	05/30/2025	16:06	LB135969
	Sodium	2000	+/-2000	U	2000	P	05/30/2025	16:06	LB135969
	Thallium	40.0	+/-40.0	U	40.0	P	05/30/2025	16:06	LB135969
	Vanadium	40.0	+/-40.0	U	40.0	P	05/30/2025	16:06	LB135969
	Zinc	40.0	+/-40.0	U	40.0	P	05/30/2025	16:06	LB135969
CCB02	Aluminum	11.8	+/-100	J	100	P	05/30/2025	16:56	LB135969
	Antimony	50.0	+/-50.0	U	50.0	P	05/30/2025	16:56	LB135969
	Arsenic	20.0	+/-20.0	U	20.0	P	05/30/2025	16:56	LB135969
	Barium	100	+/-100	U	100	P	05/30/2025	16:56	LB135969
	Beryllium	6.00	+/-6.00	U	6.00	P	05/30/2025	16:56	LB135969
	Cadmium	6.00	+/-6.00	U	6.00	P	05/30/2025	16:56	LB135969
	Calcium	2000	+/-2000	U	2000	P	05/30/2025	16:56	LB135969
	Chromium	10.0	+/-10.0	U	10.0	P	05/30/2025	16:56	LB135969
	Cobalt	30.0	+/-30.0	U	30.0	P	05/30/2025	16:56	LB135969
	Copper	20.0	+/-20.0	U	20.0	P	05/30/2025	16:56	LB135969
	Iron	100	+/-100	U	100	P	05/30/2025	16:56	LB135969
	Lead	12.0	+/-12.0	U	12.0	P	05/30/2025	16:56	LB135969
	Magnesium	2000	+/-2000	U	2000	P	05/30/2025	16:56	LB135969
	Manganese	20.0	+/-20.0	U	20.0	P	05/30/2025	16:56	LB135969
	Nickel	40.0	+/-40.0	U	40.0	P	05/30/2025	16:56	LB135969
	Potassium	2000	+/-2000	U	2000	P	05/30/2025	16:56	LB135969
	Selenium	20.0	+/-20.0	U	20.0	P	05/30/2025	16:56	LB135969

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: CDM Smith **SDG No.:** Q2100

Contract: CAMP02 **Lab Code:** CHEM **Case No.:** Q2100 **SAS No.:** Q2100

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB02	Silver	10.0	+/-10.0	U	10.0	P	05/30/2025	16:56	LB135969
	Sodium	2000	+/-2000	U	2000	P	05/30/2025	16:56	LB135969
	Thallium	40.0	+/-40.0	U	40.0	P	05/30/2025	16:56	LB135969
	Vanadium	40.0	+/-40.0	U	40.0	P	05/30/2025	16:56	LB135969
	Zinc	40.0	+/-40.0	U	40.0	P	05/30/2025	16:56	LB135969
CCB03	Aluminum	100	+/-100	U	100	P	05/30/2025	17:45	LB135969
	Antimony	50.0	+/-50.0	U	50.0	P	05/30/2025	17:45	LB135969
	Arsenic	20.0	+/-20.0	U	20.0	P	05/30/2025	17:45	LB135969
	Barium	100	+/-100	U	100	P	05/30/2025	17:45	LB135969
	Beryllium	6.00	+/-6.00	U	6.00	P	05/30/2025	17:45	LB135969
	Cadmium	6.00	+/-6.00	U	6.00	P	05/30/2025	17:45	LB135969
	Calcium	2000	+/-2000	U	2000	P	05/30/2025	17:45	LB135969
	Chromium	10.0	+/-10.0	U	10.0	P	05/30/2025	17:45	LB135969
	Cobalt	30.0	+/-30.0	U	30.0	P	05/30/2025	17:45	LB135969
	Copper	20.0	+/-20.0	U	20.0	P	05/30/2025	17:45	LB135969
	Iron	100	+/-100	U	100	P	05/30/2025	17:45	LB135969
	Lead	12.0	+/-12.0	U	12.0	P	05/30/2025	17:45	LB135969
	Magnesium	2000	+/-2000	U	2000	P	05/30/2025	17:45	LB135969
	Manganese	20.0	+/-20.0	U	20.0	P	05/30/2025	17:45	LB135969
	Nickel	40.0	+/-40.0	U	40.0	P	05/30/2025	17:45	LB135969
	Potassium	2000	+/-2000	U	2000	P	05/30/2025	17:45	LB135969
	Selenium	20.0	+/-20.0	U	20.0	P	05/30/2025	17:45	LB135969
	Silver	10.0	+/-10.0	U	10.0	P	05/30/2025	17:45	LB135969
	Sodium	2000	+/-2000	U	2000	P	05/30/2025	17:45	LB135969
	Thallium	40.0	+/-40.0	U	40.0	P	05/30/2025	17:45	LB135969
	Vanadium	40.0	+/-40.0	U	40.0	P	05/30/2025	17:45	LB135969
	Zinc	40.0	+/-40.0	U	40.0	P	05/30/2025	17:45	LB135969
CCB04	Aluminum	13.3	+/-100	J	100	P	05/30/2025	18:32	LB135969
	Antimony	50.0	+/-50.0	U	50.0	P	05/30/2025	18:32	LB135969
	Arsenic	20.0	+/-20.0	U	20.0	P	05/30/2025	18:32	LB135969
	Barium	100	+/-100	U	100	P	05/30/2025	18:32	LB135969
	Beryllium	6.00	+/-6.00	U	6.00	P	05/30/2025	18:32	LB135969
	Cadmium	6.00	+/-6.00	U	6.00	P	05/30/2025	18:32	LB135969
	Calcium	2000	+/-2000	U	2000	P	05/30/2025	18:32	LB135969
	Chromium	10.0	+/-10.0	U	10.0	P	05/30/2025	18:32	LB135969
	Cobalt	30.0	+/-30.0	U	30.0	P	05/30/2025	18:32	LB135969
	Copper	20.0	+/-20.0	U	20.0	P	05/30/2025	18:32	LB135969
	Iron	100	+/-100	U	100	P	05/30/2025	18:32	LB135969
	Lead	12.0	+/-12.0	U	12.0	P	05/30/2025	18:32	LB135969

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Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: CDM Smith **SDG No.:** Q2100

Contract: CAMP02 **Lab Code:** CHEM **Case No.:** Q2100 **SAS No.:** Q2100

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB04	Magnesium	2000	+/-2000	U	2000	P	05/30/2025	18:32	LB135969
	Manganese	20.0	+/-20.0	U	20.0	P	05/30/2025	18:32	LB135969
	Nickel	40.0	+/-40.0	U	40.0	P	05/30/2025	18:32	LB135969
	Potassium	2000	+/-2000	U	2000	P	05/30/2025	18:32	LB135969
	Selenium	20.0	+/-20.0	U	20.0	P	05/30/2025	18:32	LB135969
	Silver	10.0	+/-10.0	U	10.0	P	05/30/2025	18:32	LB135969
	Sodium	2000	+/-2000	U	2000	P	05/30/2025	18:32	LB135969
	Thallium	40.0	+/-40.0	U	40.0	P	05/30/2025	18:32	LB135969
	Vanadium	40.0	+/-40.0	U	40.0	P	05/30/2025	18:32	LB135969
	Zinc	40.0	+/-40.0	U	40.0	P	05/30/2025	18:32	LB135969
CCB05	Aluminum	100	+/-100	U	100	P	05/30/2025	19:02	LB135969
	Antimony	50.0	+/-50.0	U	50.0	P	05/30/2025	19:02	LB135969
	Arsenic	20.0	+/-20.0	U	20.0	P	05/30/2025	19:02	LB135969
	Barium	100	+/-100	U	100	P	05/30/2025	19:02	LB135969
	Beryllium	6.00	+/-6.00	U	6.00	P	05/30/2025	19:02	LB135969
	Cadmium	6.00	+/-6.00	U	6.00	P	05/30/2025	19:02	LB135969
	Calcium	2000	+/-2000	U	2000	P	05/30/2025	19:02	LB135969
	Chromium	10.0	+/-10.0	U	10.0	P	05/30/2025	19:02	LB135969
	Cobalt	30.0	+/-30.0	U	30.0	P	05/30/2025	19:02	LB135969
	Copper	20.0	+/-20.0	U	20.0	P	05/30/2025	19:02	LB135969
	Iron	100	+/-100	U	100	P	05/30/2025	19:02	LB135969
	Lead	12.0	+/-12.0	U	12.0	P	05/30/2025	19:02	LB135969
	Magnesium	2000	+/-2000	U	2000	P	05/30/2025	19:02	LB135969
	Manganese	20.0	+/-20.0	U	20.0	P	05/30/2025	19:02	LB135969
	Nickel	40.0	+/-40.0	U	40.0	P	05/30/2025	19:02	LB135969
	Potassium	2000	+/-2000	U	2000	P	05/30/2025	19:02	LB135969
	Selenium	20.0	+/-20.0	U	20.0	P	05/30/2025	19:02	LB135969
	Silver	10.0	+/-10.0	U	10.0	P	05/30/2025	19:02	LB135969
	Sodium	2000	+/-2000	U	2000	P	05/30/2025	19:02	LB135969
	Thallium	40.0	+/-40.0	U	40.0	P	05/30/2025	19:02	LB135969
	Vanadium	40.0	+/-40.0	U	40.0	P	05/30/2025	19:02	LB135969
	Zinc	40.0	+/-40.0	U	40.0	P	05/30/2025	19:02	LB135969
CCB06	Aluminum	100	+/-100	U	100	P	05/30/2025	19:34	LB135969
	Antimony	50.0	+/-50.0	U	50.0	P	05/30/2025	19:34	LB135969
	Arsenic	20.0	+/-20.0	U	20.0	P	05/30/2025	19:34	LB135969
	Barium	100	+/-100	U	100	P	05/30/2025	19:34	LB135969
	Beryllium	6.00	+/-6.00	U	6.00	P	05/30/2025	19:34	LB135969
	Cadmium	6.00	+/-6.00	U	6.00	P	05/30/2025	19:34	LB135969
	Calcium	2000	+/-2000	U	2000	P	05/30/2025	19:34	LB135969

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: CDM Smith **SDG No.:** Q2100

Contract: CAMP02 **Lab Code:** CHEM **Case No.:** Q2100 **SAS No.:** Q2100

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB06	Chromium	10.0	+/-10.0	U	10.0	P	05/30/2025	19:34	LB135969
	Cobalt	30.0	+/-30.0	U	30.0	P	05/30/2025	19:34	LB135969
	Copper	20.0	+/-20.0	U	20.0	P	05/30/2025	19:34	LB135969
	Iron	100	+/-100	U	100	P	05/30/2025	19:34	LB135969
	Lead	12.0	+/-12.0	U	12.0	P	05/30/2025	19:34	LB135969
	Magnesium	2000	+/-2000	U	2000	P	05/30/2025	19:34	LB135969
	Manganese	20.0	+/-20.0	U	20.0	P	05/30/2025	19:34	LB135969
	Nickel	40.0	+/-40.0	U	40.0	P	05/30/2025	19:34	LB135969
	Potassium	2000	+/-2000	U	2000	P	05/30/2025	19:34	LB135969
	Selenium	20.0	+/-20.0	U	20.0	P	05/30/2025	19:34	LB135969
	Silver	10.0	+/-10.0	U	10.0	P	05/30/2025	19:34	LB135969
	Sodium	2000	+/-2000	U	2000	P	05/30/2025	19:34	LB135969
	Thallium	40.0	+/-40.0	U	40.0	P	05/30/2025	19:34	LB135969
	Vanadium	40.0	+/-40.0	U	40.0	P	05/30/2025	19:34	LB135969
	Zinc	40.0	+/-40.0	U	40.0	P	05/30/2025	19:34	LB135969

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Metals
- 3b -
PREPARATION BLANK SUMMARY

Client: CDM Smith **SDG No.:** Q2100

Instrument: CV1

Sample ID	Analyte	Result (mg/Kg)	Acceptance Limit	Conc Qual	CRQL mg/Kg	M	Analysis Date	Analysis Time	Run
PB168146BL		**SOLID**		**Batch Number:**	**PB168146**		**Prep Date:**	**05/23/2025**	
	Mercury	0.013	<0.013	U	0.013	CV	05/23/2025	13:42	LB135901

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Metals
- 3b -
PREPARATION BLANK SUMMARY

Client: CDM Smith **SDG No.:** Q2100

Instrument: P4

Sample ID	Analyte	Result (mg/Kg)	Acceptance Limit	Conc Qual	CRQL mg/Kg	M	Analysis Date	Analysis Time	Run
PB168117BL		**SOLID**		**Batch Number:**	**PB168117**		**Prep Date:**	**05/21/2025**	
	Aluminum	5.00	<5.00	U	5.00	P	05/30/2025	17:00	LB135969
	Antimony	2.50	<2.50	U	2.50	P	05/30/2025	17:00	LB135969
	Arsenic	1.00	<1.00	U	1.00	P	05/30/2025	17:00	LB135969
	Barium	5.00	<5.00	U	5.00	P	05/30/2025	17:00	LB135969
	Beryllium	0.30	<0.30	U	0.30	P	05/30/2025	17:00	LB135969
	Cadmium	0.30	<0.30	U	0.30	P	05/30/2025	17:00	LB135969
	Calcium	100	<100	U	100	P	05/30/2025	17:00	LB135969
	Chromium	0.50	<0.50	U	0.50	P	05/30/2025	17:00	LB135969
	Cobalt	1.50	<1.50	U	1.50	P	05/30/2025	17:00	LB135969
	Copper	1.00	<1.00	U	1.00	P	05/30/2025	17:00	LB135969
	Iron	5.00	<5.00	U	5.00	P	05/30/2025	17:00	LB135969
	Lead	0.60	<0.60	U	0.60	P	05/30/2025	17:00	LB135969
	Magnesium	100	<100	U	100	P	05/30/2025	17:00	LB135969
	Manganese	1.00	<1.00	U	1.00	P	05/30/2025	17:00	LB135969
	Nickel	2.00	<2.00	U	2.00	P	05/30/2025	17:00	LB135969
	Potassium	100	<100	U	100	P	05/30/2025	17:00	LB135969
	Selenium	1.00	<1.00	U	1.00	P	05/30/2025	17:00	LB135969
	Silver	0.50	<0.50	U	0.50	P	05/30/2025	17:00	LB135969
	Sodium	100	<100	U	100	P	05/30/2025	17:00	LB135969
	Thallium	2.00	<2.00	U	2.00	P	05/30/2025	17:00	LB135969
	Vanadium	2.00	<2.00	U	2.00	P	05/30/2025	17:00	LB135969
	Zinc	2.00	<2.00	U	2.00	P	05/30/2025	17:00	LB135969

METAL CALIBRATION DATA

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: CDM Smith **SDG No.:** Q2100

Contract: CAMP02 **Lab Code:** CHEM **Case No.:** Q2100 **SAS No.:** Q2100

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
ICV16	Mercury	3.87	4.0	97	90 - 110	CV	05/23/2025	12:29	LB135901

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: CDM Smith **SDG No.:** Q2100

Contract: CAMP02 **Lab Code:** CHEM **Case No.:** Q2100 **SAS No.:** Q2100

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
CCV60	Mercury	5.18	5.0	104	90 - 110	CV	05/23/2025	12:34	LB135901
CCV61	Mercury	4.96	5.0	99	90 - 110	CV	05/23/2025	13:01	LB135901
CCV62	Mercury	5.04	5.0	101	90 - 110	CV	05/23/2025	13:28	LB135901
CCV63	Mercury	4.97	5.0	100	90 - 110	CV	05/23/2025	13:56	LB135901
CCV64	Mercury	4.84	5.0	97	90 - 110	CV	05/23/2025	14:21	LB135901
CCV65	Mercury	4.90	5.0	98	90 - 110	CV	05/23/2025	14:37	LB135901

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: CDM Smith **SDG No.:** Q2100

Contract: CAMP02 **Lab Code:** CHEM **Case No.:** Q2100 **SAS No.:** Q2100

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	2450	2500	98	90 - 110	P	05/30/2025	15:13	LB135969
	Antimony	1020	1000	102	90 - 110	P	05/30/2025	15:13	LB135969
	Arsenic	1030	1000	103	90 - 110	P	05/30/2025	15:13	LB135969
	Barium	490	520	94	90 - 110	P	05/30/2025	15:13	LB135969
	Beryllium	495	510	97	90 - 110	P	05/30/2025	15:13	LB135969
	Cadmium	518	510	102	90 - 110	P	05/30/2025	15:13	LB135969
	Calcium	9850	10000	98	90 - 110	P	05/30/2025	15:13	LB135969
	Chromium	539	520	104	90 - 110	P	05/30/2025	15:13	LB135969
	Cobalt	520	520	100	90 - 110	P	05/30/2025	15:13	LB135969
	Copper	535	510	105	90 - 110	P	05/30/2025	15:13	LB135969
	Iron	10500	10000	105	90 - 110	P	05/30/2025	15:13	LB135969
	Lead	1010	1000	101	90 - 110	P	05/30/2025	15:13	LB135969
	Magnesium	5760	6000	96	90 - 110	P	05/30/2025	15:13	LB135969
	Manganese	504	520	97	90 - 110	P	05/30/2025	15:13	LB135969
	Nickel	524	530	99	90 - 110	P	05/30/2025	15:13	LB135969
	Potassium	10100	9900	102	90 - 110	P	05/30/2025	15:13	LB135969
	Selenium	1080	1000	108	90 - 110	P	05/30/2025	15:13	LB135969
	Silver	259	250	104	90 - 110	P	05/30/2025	15:13	LB135969
	Sodium	9750	10000	98	90 - 110	P	05/30/2025	15:13	LB135969
	Thallium	1090	1000	109	90 - 110	P	05/30/2025	15:13	LB135969
	Vanadium	484	500	97	90 - 110	P	05/30/2025	15:13	LB135969
	Zinc	1000	1000	100	90 - 110	P	05/30/2025	15:13	LB135969

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: CDM Smith **SDG No.:** Q2100

Contract: CAMP02 **Lab Code:** CHEM **Case No.:** Q2100 **SAS No.:** Q2100

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	98.2	100	98	80 - 120	P	05/30/2025	15:21	LB135969
	Antimony	50.0	50.0	100	80 - 120	P	05/30/2025	15:21	LB135969
	Arsenic	20.5	20.0	102	80 - 120	P	05/30/2025	15:21	LB135969
	Barium	91.3	100	91	80 - 120	P	05/30/2025	15:21	LB135969
	Beryllium	5.89	6.0	98	80 - 120	P	05/30/2025	15:21	LB135969
	Cadmium	6.08	6.0	101	80 - 120	P	05/30/2025	15:21	LB135969
	Calcium	1910	2000	95	80 - 120	P	05/30/2025	15:21	LB135969
	Chromium	10.2	10.0	102	80 - 120	P	05/30/2025	15:21	LB135969
	Cobalt	29.3	30.0	98	80 - 120	P	05/30/2025	15:21	LB135969
	Copper	21.5	20.0	107	80 - 120	P	05/30/2025	15:21	LB135969
	Iron	104	100	104	80 - 120	P	05/30/2025	15:21	LB135969
	Lead	11.3	12.0	94	80 - 120	P	05/30/2025	15:21	LB135969
	Magnesium	1920	2000	96	80 - 120	P	05/30/2025	15:21	LB135969
	Manganese	19.9	20.0	100	80 - 120	P	05/30/2025	15:21	LB135969
	Nickel	40.0	40.0	100	80 - 120	P	05/30/2025	15:21	LB135969
	Potassium	1920	2000	96	80 - 120	P	05/30/2025	15:21	LB135969
	Selenium	21.2	20.0	106	80 - 120	P	05/30/2025	15:21	LB135969
	Silver	10.1	10.0	101	80 - 120	P	05/30/2025	15:21	LB135969
	Sodium	1830	2000	92	80 - 120	P	05/30/2025	15:21	LB135969
	Thallium	33.2	40.0	83	80 - 120	P	05/30/2025	15:21	LB135969
	Vanadium	36.9	40.0	92	80 - 120	P	05/30/2025	15:21	LB135969
	Zinc	40.5	40.0	101	80 - 120	P	05/30/2025	15:21	LB135969

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: CDM Smith **SDG No.:** Q2100

Contract: CAMP02 **Lab Code:** CHEM **Case No.:** Q2100 **SAS No.:** Q2100

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	9760	10000	98	90 - 110	P	05/30/2025	16:02	LB135969
	Antimony	5090	5000	102	90 - 110	P	05/30/2025	16:02	LB135969
	Arsenic	5110	5000	102	90 - 110	P	05/30/2025	16:02	LB135969
	Barium	9890	10000	99	90 - 110	P	05/30/2025	16:02	LB135969
	Beryllium	235	250	94	90 - 110	P	05/30/2025	16:02	LB135969
	Cadmium	2500	2500	100	90 - 110	P	05/30/2025	16:02	LB135969
	Calcium	24400	25000	98	90 - 110	P	05/30/2025	16:02	LB135969
	Chromium	1020	1000	102	90 - 110	P	05/30/2025	16:02	LB135969
	Cobalt	2500	2500	100	90 - 110	P	05/30/2025	16:02	LB135969
	Copper	1280	1250	102	90 - 110	P	05/30/2025	16:02	LB135969
	Iron	5420	5000	108	90 - 110	P	05/30/2025	16:02	LB135969
	Lead	5010	5000	100	90 - 110	P	05/30/2025	16:02	LB135969
	Magnesium	24100	25000	96	90 - 110	P	05/30/2025	16:02	LB135969
	Manganese	2430	2500	97	90 - 110	P	05/30/2025	16:02	LB135969
	Nickel	2510	2500	100	90 - 110	P	05/30/2025	16:02	LB135969
	Potassium	27000	25000	108	90 - 110	P	05/30/2025	16:02	LB135969
	Selenium	5160	5000	103	90 - 110	P	05/30/2025	16:02	LB135969
	Silver	1280	1250	102	90 - 110	P	05/30/2025	16:02	LB135969
	Sodium	26700	25000	107	90 - 110	P	05/30/2025	16:02	LB135969
	Thallium	5190	5000	104	90 - 110	P	05/30/2025	16:02	LB135969
	Vanadium	2460	2500	98	90 - 110	P	05/30/2025	16:02	LB135969
	Zinc	2680	2500	107	90 - 110	P	05/30/2025	16:02	LB135969
CCV02	Aluminum	10000	10000	100	90 - 110	P	05/30/2025	16:52	LB135969
	Antimony	5130	5000	103	90 - 110	P	05/30/2025	16:52	LB135969
	Arsenic	5140	5000	103	90 - 110	P	05/30/2025	16:52	LB135969
	Barium	9860	10000	99	90 - 110	P	05/30/2025	16:52	LB135969
	Beryllium	249	250	100	90 - 110	P	05/30/2025	16:52	LB135969
	Cadmium	2510	2500	100	90 - 110	P	05/30/2025	16:52	LB135969
	Calcium	24600	25000	99	90 - 110	P	05/30/2025	16:52	LB135969
	Chromium	1020	1000	102	90 - 110	P	05/30/2025	16:52	LB135969
	Cobalt	2510	2500	100	90 - 110	P	05/30/2025	16:52	LB135969
	Copper	1290	1250	103	90 - 110	P	05/30/2025	16:52	LB135969
	Iron	5250	5000	105	90 - 110	P	05/30/2025	16:52	LB135969
	Lead	5030	5000	101	90 - 110	P	05/30/2025	16:52	LB135969

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: CDM Smith **SDG No.:** Q2100

Contract: CAMP02 **Lab Code:** CHEM **Case No.:** Q2100 **SAS No.:** Q2100

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	24500	25000	98	90 - 110	P	05/30/2025	16:52	LB135969
	Manganese	2450	2500	98	90 - 110	P	05/30/2025	16:52	LB135969
	Nickel	2510	2500	100	90 - 110	P	05/30/2025	16:52	LB135969
	Potassium	26400	25000	106	90 - 110	P	05/30/2025	16:52	LB135969
	Selenium	5210	5000	104	90 - 110	P	05/30/2025	16:52	LB135969
	Silver	1290	1250	103	90 - 110	P	05/30/2025	16:52	LB135969
	Sodium	26000	25000	104	90 - 110	P	05/30/2025	16:52	LB135969
	Thallium	5160	5000	103	90 - 110	P	05/30/2025	16:52	LB135969
	Vanadium	2490	2500	100	90 - 110	P	05/30/2025	16:52	LB135969
	Zinc	2610	2500	104	90 - 110	P	05/30/2025	16:52	LB135969
CCV03	Aluminum	10200	10000	102	90 - 110	P	05/30/2025	17:41	LB135969
	Antimony	5110	5000	102	90 - 110	P	05/30/2025	17:41	LB135969
	Arsenic	5080	5000	102	90 - 110	P	05/30/2025	17:41	LB135969
	Barium	9790	10000	98	90 - 110	P	05/30/2025	17:41	LB135969
	Beryllium	272	250	109	90 - 110	P	05/30/2025	17:41	LB135969
	Cadmium	2510	2500	100	90 - 110	P	05/30/2025	17:41	LB135969
	Calcium	25300	25000	101	90 - 110	P	05/30/2025	17:41	LB135969
	Chromium	1030	1000	103	90 - 110	P	05/30/2025	17:41	LB135969
	Cobalt	2510	2500	100	90 - 110	P	05/30/2025	17:41	LB135969
	Copper	1280	1250	102	90 - 110	P	05/30/2025	17:41	LB135969
	Iron	4910	5000	98	90 - 110	P	05/30/2025	17:41	LB135969
	Lead	5020	5000	100	90 - 110	P	05/30/2025	17:41	LB135969
	Magnesium	25600	25000	102	90 - 110	P	05/30/2025	17:41	LB135969
	Manganese	2510	2500	101	90 - 110	P	05/30/2025	17:41	LB135969
	Nickel	2510	2500	100	90 - 110	P	05/30/2025	17:41	LB135969
	Potassium	24200	25000	97	90 - 110	P	05/30/2025	17:41	LB135969
	Selenium	5130	5000	102	90 - 110	P	05/30/2025	17:41	LB135969
	Silver	1290	1250	103	90 - 110	P	05/30/2025	17:41	LB135969
	Sodium	24100	25000	96	90 - 110	P	05/30/2025	17:41	LB135969
	Thallium	4980	5000	100	90 - 110	P	05/30/2025	17:41	LB135969
	Vanadium	2530	2500	101	90 - 110	P	05/30/2025	17:41	LB135969
	Zinc	2510	2500	100	90 - 110	P	05/30/2025	17:41	LB135969
CCV04	Aluminum	9760	10000	98	90 - 110	P	05/30/2025	18:28	LB135969
	Antimony	5120	5000	102	90 - 110	P	05/30/2025	18:28	LB135969

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: CDM Smith **SDG No.:** Q2100

Contract: CAMP02 **Lab Code:** CHEM **Case No.:** Q2100 **SAS No.:** Q2100

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	5120	5000	102	90 - 110	P	05/30/2025	18:28	LB135969
	Barium	9930	10000	99	90 - 110	P	05/30/2025	18:28	LB135969
	Beryllium	239	250	95	90 - 110	P	05/30/2025	18:28	LB135969
	Cadmium	2490	2500	100	90 - 110	P	05/30/2025	18:28	LB135969
	Calcium	24300	25000	97	90 - 110	P	05/30/2025	18:28	LB135969
	Chromium	1010	1000	102	90 - 110	P	05/30/2025	18:28	LB135969
	Cobalt	2490	2500	100	90 - 110	P	05/30/2025	18:28	LB135969
	Copper	1280	1250	102	90 - 110	P	05/30/2025	18:28	LB135969
	Iron	5320	5000	106	90 - 110	P	05/30/2025	18:28	LB135969
	Lead	4980	5000	100	90 - 110	P	05/30/2025	18:28	LB135969
	Magnesium	24000	25000	96	90 - 110	P	05/30/2025	18:28	LB135969
	Manganese	2430	2500	97	90 - 110	P	05/30/2025	18:28	LB135969
	Nickel	2490	2500	100	90 - 110	P	05/30/2025	18:28	LB135969
	Potassium	26200	25000	105	90 - 110	P	05/30/2025	18:28	LB135969
	Selenium	5200	5000	104	90 - 110	P	05/30/2025	18:28	LB135969
	Silver	1280	1250	102	90 - 110	P	05/30/2025	18:28	LB135969
	Sodium	26400	25000	106	90 - 110	P	05/30/2025	18:28	LB135969
	Thallium	5110	5000	102	90 - 110	P	05/30/2025	18:28	LB135969
	Vanadium	2460	2500	98	90 - 110	P	05/30/2025	18:28	LB135969
	Zinc	2510	2500	100	90 - 110	P	05/30/2025	18:28	LB135969
CCV05	Aluminum	10000	10000	100	90 - 110	P	05/30/2025	18:58	LB135969
	Antimony	5080	5000	102	90 - 110	P	05/30/2025	18:58	LB135969
	Arsenic	5070	5000	101	90 - 110	P	05/30/2025	18:58	LB135969
	Barium	9520	10000	95	90 - 110	P	05/30/2025	18:58	LB135969
	Beryllium	266	250	106	90 - 110	P	05/30/2025	18:58	LB135969
	Cadmium	2480	2500	99	90 - 110	P	05/30/2025	18:58	LB135969
	Calcium	24200	25000	97	90 - 110	P	05/30/2025	18:58	LB135969
	Chromium	1000	1000	100	90 - 110	P	05/30/2025	18:58	LB135969
	Cobalt	2480	2500	99	90 - 110	P	05/30/2025	18:58	LB135969
	Copper	1280	1250	102	90 - 110	P	05/30/2025	18:58	LB135969
	Iron	4710	5000	94	90 - 110	P	05/30/2025	18:58	LB135969
	Lead	4960	5000	99	90 - 110	P	05/30/2025	18:58	LB135969
	Magnesium	24400	25000	98	90 - 110	P	05/30/2025	18:58	LB135969
	Manganese	2430	2500	97	90 - 110	P	05/30/2025	18:58	LB135969

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: CDM Smith **SDG No.:** Q2100

Contract: CAMP02 **Lab Code:** CHEM **Case No.:** Q2100 **SAS No.:** Q2100

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	2480	2500	99	90 - 110	P	05/30/2025	18:58	LB135969
	Potassium	24000	25000	96	90 - 110	P	05/30/2025	18:58	LB135969
	Selenium	5150	5000	103	90 - 110	P	05/30/2025	18:58	LB135969
	Silver	1260	1250	101	90 - 110	P	05/30/2025	18:58	LB135969
	Sodium	23200	25000	93	90 - 110	P	05/30/2025	18:58	LB135969
	Thallium	4950	5000	99	90 - 110	P	05/30/2025	18:58	LB135969
	Vanadium	2450	2500	98	90 - 110	P	05/30/2025	18:58	LB135969
	Zinc	2570	2500	103	90 - 110	P	05/30/2025	18:58	LB135969
CCV06	Aluminum	9730	10000	97	90 - 110	P	05/30/2025	19:30	LB135969
	Antimony	4980	5000	100	90 - 110	P	05/30/2025	19:30	LB135969
	Arsenic	4950	5000	99	90 - 110	P	05/30/2025	19:30	LB135969
	Barium	9770	10000	98	90 - 110	P	05/30/2025	19:30	LB135969
	Beryllium	246	250	98	90 - 110	P	05/30/2025	19:30	LB135969
	Cadmium	2460	2500	98	90 - 110	P	05/30/2025	19:30	LB135969
	Calcium	24300	25000	97	90 - 110	P	05/30/2025	19:30	LB135969
	Chromium	985	1000	98	90 - 110	P	05/30/2025	19:30	LB135969
	Cobalt	2460	2500	98	90 - 110	P	05/30/2025	19:30	LB135969
	Copper	1250	1250	100	90 - 110	P	05/30/2025	19:30	LB135969
	Iron	4920	5000	98	90 - 110	P	05/30/2025	19:30	LB135969
	Lead	4930	5000	99	90 - 110	P	05/30/2025	19:30	LB135969
	Magnesium	24100	25000	96	90 - 110	P	05/30/2025	19:30	LB135969
	Manganese	2440	2500	97	90 - 110	P	05/30/2025	19:30	LB135969
	Nickel	2460	2500	98	90 - 110	P	05/30/2025	19:30	LB135969
	Potassium	24800	25000	99	90 - 110	P	05/30/2025	19:30	LB135969
	Selenium	5010	5000	100	90 - 110	P	05/30/2025	19:30	LB135969
	Silver	1230	1250	98	90 - 110	P	05/30/2025	19:30	LB135969
	Sodium	24200	25000	97	90 - 110	P	05/30/2025	19:30	LB135969
	Thallium	4850	5000	97	90 - 110	P	05/30/2025	19:30	LB135969
	Vanadium	2440	2500	98	90 - 110	P	05/30/2025	19:30	LB135969
	Zinc	2520	2500	101	90 - 110	P	05/30/2025	19:30	LB135969

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Metals

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CRDL STANDARD FOR AA & ICP

Client: CDM Smith **SDG No.:** Q2100

Contract: CAMP02 **Lab Code:** CHEM **Case No.:** Q2100 **SAS No.:** Q2100

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	100	70 - 130	CV	05/23/2025	12:38	LB135901
CRI01	Aluminum	101	100	101	65 - 135	P	05/30/2025	15:30	LB135969
	Antimony	48.4	50.0	97	65 - 135	P	05/30/2025	15:30	LB135969
	Arsenic	19.3	20.0	97	65 - 135	P	05/30/2025	15:30	LB135969
	Barium	91.0	100	91	65 - 135	P	05/30/2025	15:30	LB135969
	Beryllium	5.97	6.0	100	65 - 135	P	05/30/2025	15:30	LB135969
	Cadmium	5.90	6.0	98	65 - 135	P	05/30/2025	15:30	LB135969
	Calcium	1910	2000	96	65 - 135	P	05/30/2025	15:30	LB135969
	Chromium	10.1	10.0	101	65 - 135	P	05/30/2025	15:30	LB135969
	Cobalt	29.1	30.0	97	65 - 135	P	05/30/2025	15:30	LB135969
	Copper	20.9	20.0	104	65 - 135	P	05/30/2025	15:30	LB135969
	Iron	102	100	102	65 - 135	P	05/30/2025	15:30	LB135969
	Lead	11.0	12.0	92	65 - 135	P	05/30/2025	15:30	LB135969
	Magnesium	1900	2000	95	65 - 135	P	05/30/2025	15:30	LB135969
	Manganese	19.4	20.0	97	65 - 135	P	05/30/2025	15:30	LB135969
	Nickel	39.2	40.0	98	65 - 135	P	05/30/2025	15:30	LB135969
	Potassium	1880	2000	94	65 - 135	P	05/30/2025	15:30	LB135969
	Selenium	21.6	20.0	108	65 - 135	P	05/30/2025	15:30	LB135969
	Silver	9.55	10.0	96	65 - 135	P	05/30/2025	15:30	LB135969
	Sodium	1810	2000	90	65 - 135	P	05/30/2025	15:30	LB135969
	Thallium	29.9	40.0	75	65 - 135	P	05/30/2025	15:30	LB135969
	Vanadium	36.9	40.0	92	65 - 135	P	05/30/2025	15:30	LB135969
	Zinc	40.3	40.0	101	65 - 135	P	05/30/2025	15:30	LB135969

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Metals
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INTERFERENCE CHECK SAMPLE

Client: CDM Smith **SDG No.:** Q2100

Contract: CAMP02 **Lab Code:** CHEM **Case No.:** Q2100 **SAS No.:** Q2100

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	265000	255000	104	216000	294000	05/30/2025	15:34	LB135969
	Antimony	-10.5			-50	50	05/30/2025	15:34	LB135969
	Arsenic	7.93			-20	20	05/30/2025	15:34	LB135969
	Barium	5.59	6.0	93	-94	106	05/30/2025	15:34	LB135969
	Beryllium	1.08			-6	6	05/30/2025	15:34	LB135969
	Cadmium	0.96	1.0	96	-5	7	05/30/2025	15:34	LB135969
	Calcium	250000	245000	102	208000	282000	05/30/2025	15:34	LB135969
	Chromium	50.5	52.0	97	42	62	05/30/2025	15:34	LB135969
	Cobalt	2.14			-30	30	05/30/2025	15:34	LB135969
	Copper	11.1	2.0	555	-18	22	05/30/2025	15:34	LB135969
	Iron	106000	101000	105	85600	116500	05/30/2025	15:34	LB135969
	Lead	-3.47			-12	12	05/30/2025	15:34	LB135969
	Magnesium	273000	255000	107	216000	294000	05/30/2025	15:34	LB135969
	Manganese	10.4	7.0	148	-13	27	05/30/2025	15:34	LB135969
	Nickel	2.67	2.0	134	-38	42	05/30/2025	15:34	LB135969
	Potassium	82.2			0	0	05/30/2025	15:34	LB135969
	Selenium	1.16			-20	20	05/30/2025	15:34	LB135969
	Silver	-0.97			-10	10	05/30/2025	15:34	LB135969
	Sodium	15.7			0	0	05/30/2025	15:34	LB135969
	Thallium	-1.62			-40	40	05/30/2025	15:34	LB135969
	Vanadium	2.32			-40	40	05/30/2025	15:34	LB135969
	Zinc	-8.28			-40	40	05/30/2025	15:34	LB135969
ICSAB01	Aluminum	249000	247000	101	209000	285000	05/30/2025	15:49	LB135969
	Antimony	649	618	105	525	711	05/30/2025	15:49	LB135969
	Arsenic	115	104	111	88.4	120	05/30/2025	15:49	LB135969
	Barium	495	537	92	437	637	05/30/2025	15:49	LB135969
	Beryllium	545	495	110	420	570	05/30/2025	15:49	LB135969
	Cadmium	1050	972	108	826	1120	05/30/2025	15:49	LB135969
	Calcium	231000	235000	98	199000	271000	05/30/2025	15:49	LB135969
	Chromium	586	542	108	460	624	05/30/2025	15:49	LB135969
	Cobalt	530	476	111	404	548	05/30/2025	15:49	LB135969
	Copper	539	511	106	434	588	05/30/2025	15:49	LB135969
	Iron	96800	99300	98	84400	114500	05/30/2025	15:49	LB135969
	Lead	49.0	49.0	100	37	61	05/30/2025	15:49	LB135969
	Magnesium	254000	248000	102	210000	286000	05/30/2025	15:49	LB135969
	Manganese	504	507	99	430	584	05/30/2025	15:49	LB135969
	Nickel	1050	954	110	810	1100	05/30/2025	15:49	LB135969
	Potassium	50.6			0	0	05/30/2025	15:49	LB135969
	Selenium	53.5	46.0	116	26	66	05/30/2025	15:49	LB135969
	Silver	223	201	111	170	232	05/30/2025	15:49	LB135969
	Sodium	-16.6			0	0	05/30/2025	15:49	LB135969
	Thallium	86.2	108	80	68	148	05/30/2025	15:49	LB135969

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Metals
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INTERFERENCE CHECK SAMPLE

Client: CDM Smith **SDG No.:** Q2100

Contract: CAMP02 **Lab Code:** CHEM **Case No.:** Q2100 **SAS No.:** Q2100

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	498	491	101	417	565	05/30/2025	15:49	LB135969
	Zinc	1080	952	113	809	1095	05/30/2025	15:49	LB135969

METAL QC DATA

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metals
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MATRIX SPIKE SUMMARY

client: CDM Smith **level:** low **sdg no.:** Q2100

contract: CAMP02 **lab code:** CHEM **case no.:** Q2100 **sas no.:** Q2100

matrix: Solid **sample id:** Q2101-01 **client id:** TP-1-MHEMS

Percent Solids for Sample: 93.9 **Spiked ID:** Q2101-01MS **Percent Solids for Spike Sample:** 93.9

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	mg/Kg	75 - 125	4360		2590		91.4	1944		P
Antimony	mg/Kg	75 - 125	17.8		2.98		36.6	40	N	P
Arsenic	mg/Kg	75 - 125	35.7		3.87		36.6	87		P
Barium	mg/Kg	75 - 125	17.3		7.03		9.1	113		P
Beryllium	mg/Kg	75 - 125	8.75		0.45		9.1	91		P
Cadmium	mg/Kg	75 - 125	9.71		0.12	J	9.1	105		P
Calcium	mg/Kg	75 - 125	469		350		45.7	260		P
Chromium	mg/Kg	75 - 125	26.1		5.25		18.3	114		P
Cobalt	mg/Kg	75 - 125	14.7		3.15		9.1	127	N	P
Copper	mg/Kg	75 - 125	23.3		8.35		13.7	109		P
Iron	mg/Kg	75 - 125	16100		11500		140	3306		P
Lead	mg/Kg	75 - 125	49.3		6.52		45.7	94		P
Magnesium	mg/Kg	75 - 125	609		356		91.4	277	N	P
Manganese	mg/Kg	75 - 125	60.8		41.0		9.1	217		P
Nickel	mg/Kg	75 - 125	30.9		3.99		22.9	117		P
Potassium	mg/Kg	75 - 125	731		274		460	99		P
Selenium	mg/Kg	75 - 125	72.2		0.31	J	91.4	79		P
Silver	mg/Kg	75 - 125	2.70		0.44	U	3.4	79		P
Sodium	mg/Kg	75 - 125	204		107		140	69	N	P
Thallium	mg/Kg	75 - 125	88.0		1.75	U	91.4	96		P
Vanadium	mg/Kg	75 - 125	31.6		13.6		13.7	132	N	P
Zinc	mg/Kg	75 - 125	23.0		11.5		9.1	127	N	P

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metals
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MATRIX SPIKE DUPLICATE SUMMARY

client: CDM Smith **level:** low **sdg no.:** Q2100

contract: CAMP02 **lab code:** CHEM **case no.:** Q2100 **sas no.:** Q2100

matrix: Solid **sample id:** Q2101-01 **client id:** TP-1-MHEMSD

Percent Solids for Sample: 93.9 **Spiked ID:** Q2101-01MSD **Percent Solids for Spike Sample:** 93.9

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	mg/Kg	75 - 125	4650		2590		100	2067		P
Antimony	mg/Kg	75 - 125	15.1		2.98		40.2	30	N	P
Arsenic	mg/Kg	75 - 125	39.1		3.87		40.2	88		P
Barium	mg/Kg	75 - 125	18.6		7.03		10.0	116		P
Beryllium	mg/Kg	75 - 125	8.47		0.45		10.0	80		P
Cadmium	mg/Kg	75 - 125	10.1		0.12	J	10.0	100		P
Calcium	mg/Kg	75 - 125	485		350		50.2	269		P
Chromium	mg/Kg	75 - 125	25.5		5.25		20.1	101		P
Cobalt	mg/Kg	75 - 125	15.4		3.15		10.0	122		P
Copper	mg/Kg	75 - 125	24.3		8.35		15.1	106		P
Iron	mg/Kg	75 - 125	18400		11500		150	4556		P
Lead	mg/Kg	75 - 125	52.7		6.52		50.2	92		P
Magnesium	mg/Kg	75 - 125	598		356		100	243	N	P
Manganese	mg/Kg	75 - 125	59.5		41.0		10.0	185		P
Nickel	mg/Kg	75 - 125	32.6		3.99		25.1	114		P
Potassium	mg/Kg	75 - 125	842		274		500	114		P
Selenium	mg/Kg	75 - 125	80.0		0.31	J	100	80		P
Silver	mg/Kg	75 - 125	3.48		0.44	U	3.8	92		P
Sodium	mg/Kg	75 - 125	236		107		150	86		P
Thallium	mg/Kg	75 - 125	95.4		1.75	U	100	95		P
Vanadium	mg/Kg	75 - 125	34.3		13.6		15.1	138	N	P
Zinc	mg/Kg	75 - 125	24.3		11.5		10.0	129	N	P

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metals
- 5a -
MATRIX SPIKE SUMMARY

client: CDM Smith **level:** low **sdg no.:** Q2100

contract: CAMP02 **lab code:** CHEM **case no.:** Q2100 **sas no.:** Q2100

matrix: Solid **sample id:** Q2109-01 **client id:** TP-02-MHFMS

Percent Solids for Sample: 87.3 **Spiked ID:** Q2109-01MS **Percent Solids for Spike Sample:** 87.3

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	mg/Kg	80 - 120	0.33		0.020		0.3	104		CV

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metals
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MATRIX SPIKE DUPLICATE SUMMARY

client: CDM Smith **level:** low **sdg no.:** Q2100

contract: CAMP02 **lab code:** CHEM **case no.:** Q2100 **sas no.:** Q2100

matrix: Solid **sample id:** Q2109-01 **client id:** TP-02-MHFMSD

Percent Solids for Sample: 87.3 **Spiked ID:** Q2109-01MSD **Percent Solids for Spike Sample:** 87.3

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	mg/Kg	80 - 120	0.28		0.020		0.3	86		CV

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Metals
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POST DIGEST SPIKE SUMMARY

Client: CDM Smith **SDG No.:** Q2100

Contract: CAMP02 **Lab Code:** CHEM **Case No.:** Q2100 **SAS No.:** Q2100

Matrix: Solid **Level:** LOW **Client ID:** TP-1-MHEA

Sample ID: Q2101-01 **Spiked ID:** Q2101-01A

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Antimony	mg/Kg	75 - 125	34.9		2.98		34.9	92		P
Cobalt	mg/Kg	75 - 125	11.8		3.15		8.70	99		P
Magnesium	mg/Kg	75 - 125	431		356		87.3	87		P
Sodium	mg/Kg	75 - 125	226		107		130	92		P
Vanadium	mg/Kg	75 - 125	25.0		13.6		13.1	87		P
Zinc	mg/Kg	75 - 125	238		11.5		8.70	2600	N	P

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Metals

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DUPLICATE SAMPLE SUMMARY

Client: CDM Smith **Level:** LOW **SDG No.:** Q2100

Contract: CAMP02 **Lab Code:** CHEM **Case No.:** Q2100 **SAS No.:** Q2100

Matrix: Solid **Sample ID:** Q2101-01 **Client ID:** TP-1-MHEDUP

Percent Solids for Sample: 93.9 **Duplicate ID** Q2101-01DUP **Percent Solids for Spike Sample:** 93.9

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	mg/Kg	20	2590		4220		48	*	P
Antimony	mg/Kg	20	2.98		0.35	J	158	*	P
Arsenic	mg/Kg	20	3.87		5.20		29	*	P
Barium	mg/Kg	20	7.03		11.8		51	*	P
Beryllium	mg/Kg	20	0.45		0.85		61	*	P
Cadmium	mg/Kg	20	0.12	J	0.47		118		P
Calcium	mg/Kg	20	350		464		28	*	P
Chromium	mg/Kg	20	5.25		9.21		55	*	P
Cobalt	mg/Kg	20	3.15		9.83		103	*	P
Copper	mg/Kg	20	8.35		12.2		37	*	P
Iron	mg/Kg	20	11500		18000		44	*	P
Lead	mg/Kg	20	6.52		5.88		10		P
Magnesium	mg/Kg	20	356		697		65	*	P
Manganese	mg/Kg	20	41.0		108		90	*	P
Nickel	mg/Kg	20	3.99		8.11		68	*	P
Potassium	mg/Kg	20	274		415		41	*	P
Selenium	mg/Kg	20	0.31	J	0.96	U	200.0		P
Silver	mg/Kg	20	0.44	U	0.48	U			P
Sodium	mg/Kg	20	107		96.4		10		P
Thallium	mg/Kg	20	1.75	U	1.92	U			P
Vanadium	mg/Kg	20	13.6		19.9		38	*	P
Zinc	mg/Kg	20	11.5		16.6		36	*	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: CDM Smith **Level:** LOW **SDG No.:** Q2100

Contract: CAMP02 **Lab Code:** CHEM **Case No.:** Q2100 **SAS No.:** Q2100

Matrix: Solid **Sample ID:** Q2101-01MS **Client ID:** TP-1-MHEMSD

Percent Solids for Sample: 93.9 **Duplicate ID** Q2101-01MSD **Percent Solids for Spike Sample:** 93.9

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	mg/Kg	20	4360		4650		6		P
Antimony	mg/Kg	20	17.8		15.1		16		P
Arsenic	mg/Kg	20	35.7		39.1		9		P
Barium	mg/Kg	20	17.3		18.6		7		P
Beryllium	mg/Kg	20	8.75		8.47		3		P
Cadmium	mg/Kg	20	9.71		10.1		4		P
Calcium	mg/Kg	20	469		485		3		P
Chromium	mg/Kg	20	26.1		25.5		2		P
Cobalt	mg/Kg	20	14.7		15.4		5		P
Copper	mg/Kg	20	23.3		24.3		4		P
Iron	mg/Kg	20	16100		18400		13		P
Lead	mg/Kg	20	49.3		52.7		7		P
Magnesium	mg/Kg	20	609		598		2		P
Manganese	mg/Kg	20	60.8		59.5		2		P
Nickel	mg/Kg	20	30.9		32.6		5		P
Potassium	mg/Kg	20	731		842		14		P
Selenium	mg/Kg	20	72.2		80.0		10		P
Silver	mg/Kg	20	2.70		3.48		25	*	P
Sodium	mg/Kg	20	204		236		15		P
Thallium	mg/Kg	20	88.0		95.4		8		P
Vanadium	mg/Kg	20	31.6		34.3		8		P
Zinc	mg/Kg	20	23.0		24.3		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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Fax : 908 789 8922

Metals

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DUPLICATE SAMPLE SUMMARY

Client: CDM Smith **Level:** LOW **SDG No.:** Q2100

Contract: CAMP02 **Lab Code:** CHEM **Case No.:** Q2100 **SAS No.:** Q2100

Matrix: Solid **Sample ID:** Q2109-01 **Client ID:** TP-02-MHFDUP

Percent Solids for Sample: 87.3 **Duplicate ID** Q2109-01DUP **Percent Solids for Spike Sample:** 87.3

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Mercury	mg/Kg	20	0.020		0.021		5		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: CDM Smith **Level:** LOW **SDG No.:** Q2100

Contract: CAMP02 **Lab Code:** CHEM **Case No.:** Q2100 **SAS No.:** Q2100

Matrix: Solid **Sample ID:** Q2109-01MS **Client ID:** TP-02-MHFMSD

Percent Solids for Sample: 87.3 **Duplicate ID** Q2109-01MSD **Percent Solids for Spike Sample:** 87.3

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Mercury	mg/Kg	20	0.33		0.28		18		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: CDM Smith **SDG No.:** Q2100

Contract: CAMP02 **Lab Code:** CHEM **Case No.:** Q2100 **SAS No.:** Q2100

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB168117BS							
Aluminum	mg/Kg	100	96.9		97	80 - 120	P
Antimony	mg/Kg	40.0	42.8		107	80 - 120	P
Arsenic	mg/Kg	40.0	41.9		105	80 - 120	P
Barium	mg/Kg	10.0	9.64		96	80 - 120	P
Beryllium	mg/Kg	10.0	9.71		97	80 - 120	P
Cadmium	mg/Kg	10.0	10.3		103	80 - 120	P
Calcium	mg/Kg	50.0	50.6	J	101	80 - 120	P
Chromium	mg/Kg	20.0	20.9		104	80 - 120	P
Cobalt	mg/Kg	10.0	10.2		102	80 - 120	P
Copper	mg/Kg	15.0	16.2		108	80 - 120	P
Iron	mg/Kg	150	163		109	80 - 120	P
Lead	mg/Kg	50.0	50.1		100	80 - 120	P
Magnesium	mg/Kg	100	95.4	J	95	80 - 120	P
Manganese	mg/Kg	10.0	9.88		99	80 - 120	P
Nickel	mg/Kg	25.0	25.9		104	80 - 120	P
Potassium	mg/Kg	500	508		102	80 - 120	P
Selenium	mg/Kg	100	107		107	80 - 120	P
Silver	mg/Kg	3.8	3.80		100	80 - 120	P
Sodium	mg/Kg	150	149		99	80 - 120	P
Thallium	mg/Kg	100	105		105	80 - 120	P
Vanadium	mg/Kg	15.0	14.7		98	80 - 120	P
Zinc	mg/Kg	10.0	9.97		100	80 - 120	P

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Metals

LABORATORY CONTROL SAMPLE SUMMARY

Client: CDM Smith **SDG No.:** Q2100

Contract: CAMP02 **Lab Code:** CHEM **Case No.:** Q2100 **SAS No.:** Q2100

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB168146BS							
Mercury	mg/Kg	0.26	0.25		94	80 - 120	CV

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Metals

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ICP SERIAL DILUTIONS

SAMPLE NO.

TP-1-MHEL

Lab Name: Chemtech Consulting Group **Contract:** CAMP02

Lab Code: CHEM **Lb No.:** lb135969 **Lab Sample ID :** Q2101-01L **SDG No.:** Q2100

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	2590		2740		6		P
Antimony	2.98		2.79	J	6		P
Arsenic	3.87		4.09	J	6		P
Barium	7.03		7.51	J	7		P
Beryllium	0.45		0.53	J	16		P
Cadmium	0.12	J	1.31	U	100.0		P
Calcium	350		375	J	7		P
Chromium	5.25		5.83		11		P
Cobalt	3.15		3.06	J	3		P
Copper	8.35		9.24		11		P
Iron	11500		12200		6		P
Lead	6.52		6.28		4		P
Magnesium	356		381	J	7		P
Manganese	41.0		43.9		7		P
Nickel	3.99		3.92	J	2		P
Potassium	274		276	J	0		P
Selenium	0.31	J	4.36	U	100.0		P
Silver	0.44	U	2.18	U			P
Sodium	107		96.0	J	10		P
Thallium	1.75	U	8.73	U			P
Vanadium	13.6		14.7		8		P
Zinc	11.5		14.8		29		P

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Metals

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ICP SERIAL DILUTIONS

SAMPLE NO.

TP-02-MHFL

Lab Name: Chemtech Consulting Group **Contract:** CAMP02

Lab Code: CHEM **Lb No.:** lb135901 **Lab Sample ID :** Q2109-01L **SDG No.:** Q2100

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
Mercury	0.020		0.068	U	100.0		CV

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ANALYSIS RUN LOG

Client: CDM Smith **Contract:** CAMP02

Lab code: CHEM **Case no.:** Q2100 **Sas no.:** Q2100 **Sdg no.:** Q2100

Instrument id number: **Method:** **Run number:** LB135901

Start date: 05/23/2025 **End date:** 05/23/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1211	HG
S0.2	S0.2	1	1214	HG
S2.5	S2.5	1	1216	HG
S5	S5	1	1218	HG
S7.5	S7.5	1	1221	HG
S10	S10	1	1226	HG
ICV16	ICV16	1	1229	HG
ICB16	ICB16	1	1231	HG
CCV60	CCV60	1	1234	HG
CCB60	CCB60	1	1236	HG
CRA	CRA	1	1238	HG
CCV61	CCV61	1	1301	HG
CCB61	CCB61	1	1303	HG
CCV62	CCV62	1	1328	HG
CCB62	CCB62	1	1331	HG
PB168146BL	PB168146BL	1	1342	HG
PB168146BS	PB168146BS	1	1344	HG
Q2100-01	TP-16	1	1347	HG
Q2100-02	TP-22	1	1349	HG
Q2100-03	TP-21	1	1351	HG
Q2100-04	TP-45	1	1354	HG
CCV63	CCV63	1	1356	HG
CCB63	CCB63	1	1358	HG
Q2109-01DUP	TP-02-MHFDUP	1	1409	HG
Q2109-01MS	TP-02-MHFMS	1	1412	HG
Q2109-01MSD	TP-02-MHFMSD	1	1414	HG
CCV64	CCV64	1	1421	HG
CCB64	CCB64	1	1423	HG
Q2109-01L	TP-02-MHFL	5	1432	HG
CCV65	CCV65	1	1437	HG
CCB65	CCB65	1	1439	HG

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ANALYSIS RUN LOG

Client: CDM Smith **Contract:** CAMP02

Lab code: CHEM **Case no.:** Q2100 **Sas no.:** Q2100 **Sdg no.:** Q2100

Instrument id number: **Method:** **Run number:** LB135969

Start date: 05/30/2025 **End date:** 05/30/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1416	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	1421	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	1425	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	1429	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	1433	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	1437	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	1513	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	1521	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	1526	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	1530	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	1534	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	1549	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	1602	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	1606	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	1652	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	1656	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
PB168117BL	PB168117BL	1	1700	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
PB168117BS	PB168117BS	1	1704	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2101-01DUP	TP-1-MHEDUP	1	1712	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2101-01L	TP-1-MHEL	5	1717	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2101-01MS	TP-1-MHEMS	1	1721	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2101-01MSD	TP-1-MHEMSD	1	1725	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2101-01A	TP-1-MHEA	1	1729	Co,Mg,Na,Sb,V,Zn
Q2100-01	TP-16	1	1733	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2100-02	TP-22	1	1737	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	1741	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	1745	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2100-03	TP-21	1	1750	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2100-04	TP-45	1	1754	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	1828	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	1832	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	1858	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	1902	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	1930	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	1934	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: CDM Smith **SDG No.:** Q2100

Contract: CAMP02 **Lab Code:** CHEM **Case No.:** Q2100 **SAS No.:** Q2100

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: CDM Smith **SDG No.:** Q2100

Contract: CAMP02 **Lab Code:** CHEM **Case No.:** Q2100 **SAS No.:** Q2100

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
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ICP INTERELEMENT CORRECTION FACTORS

Client: CDM Smith **SDG No.:** Q2100

Contract: CAMP02 **Lab Code:** CHEM **Case No.:** Q2100 **SAS No.:** Q2100

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
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ICP INTERELEMENT CORRECTION FACTORS

Client: CDM Smith **SDG No.:** Q2100

Contract: CAMP02 **Lab Code:** CHEM **Case No.:** Q2100 **SAS No.:** Q2100

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
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ICP INTERELEMENT CORRECTION FACTORS

Client: CDM Smith **SDG No.:** Q2100

Contract: CAMP02 **Lab Code:** CHEM **Case No.:** Q2100 **SAS No.:** Q2100

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:	Q2100	**OrderDate:**	5/20/2025 3:22:00 PM
Client:	CDM Smith	**Project:**	South River WM Replacement
Contact:	Marcie Ann Encinas	**Location:**	L41,VOA Ref. #2 Soil

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2100-01	**TP-16**	**SOIL**			**05/19/25**			**05/20/25**
			Mercury	7471B		05/23/25	05/23/25	
			Metals ICP-TAL	6010D		05/21/25	05/30/25	
Q2100-02	**TP-22**	**SOIL**			**05/19/25**			**05/20/25**
			Mercury	7471B		05/23/25	05/23/25	
			Metals ICP-TAL	6010D		05/21/25	05/30/25	
Q2100-03	**TP-21**	**SOIL**			**05/20/25**			**05/20/25**
			Mercury	7471B		05/23/25	05/23/25	
			Metals ICP-TAL	6010D		05/21/25	05/30/25	
Q2100-04	**TP-45**	**SOIL**			**05/20/25**			**05/20/25**
			Mercury	7471B		05/23/25	05/23/25	
			Metals ICP-TAL	6010D		05/21/25	05/30/25	

METAL PREPARATION & ANALYICAL SUMMARY

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Metals
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SAMPLE PREPARATION SUMMARY

Client: CDM Smith **SDG No.:** Q2100

Contract: CAMP02 **Lab Code:** CHEM **Method:**

Case No.: Q2100 **SAS No.:** Q2100

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(g)	Final Sample Volume (mL)	Percent Solids
Batch Number:	**PB168117**						
PB168117BL	PB168117BL	MB	SOLID	05/21/2025	2.00	100.0	100.00
PB168117BS	PB168117BS	LCS	SOLID	05/21/2025	2.00	100.0	100.00
Q2100-01	TP-16	SAM	SOLID	05/21/2025	2.31	100.0	88.40
Q2100-02	TP-22	SAM	SOLID	05/21/2025	2.23	100.0	84.00
Q2100-03	TP-21	SAM	SOLID	05/21/2025	2.18	100.0	78.20
Q2100-04	TP-45	SAM	SOLID	05/21/2025	2.18	100.0	76.20
Q2101-01DUP	TP-1-MHEDUP	DUP	SOLID	05/21/2025	2.22	100.0	93.90
Q2101-01MS	TP-1-MHEMS	MS	SOLID	05/21/2025	2.33	100.0	93.90
Q2101-01MSD	TP-1-MHEMSD	MSD	SOLID	05/21/2025	2.12	100.0	93.90

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Metals
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SAMPLE PREPARATION SUMMARY

Client: CDM Smith **SDG No.:** Q2100

Contract: CAMP02 **Lab Code:** CHEM **Method:**

Case No.: Q2100 **SAS No.:** Q2100

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(g)	Final Sample Volume (mL)	Percent Solids
Batch Number:	**PB168146**						
PB168146BL	PB168146BL	MB	SOLID	05/23/2025	0.52	35.0	100.00
PB168146BS	PB168146BS	LCS	SOLID	05/23/2025	0.54	35.0	100.00
Q2100-01	TP-16	SAM	SOLID	05/23/2025	0.60	35.0	88.40
Q2100-02	TP-22	SAM	SOLID	05/23/2025	0.57	35.0	84.00
Q2100-03	TP-21	SAM	SOLID	05/23/2025	0.52	35.0	78.20
Q2100-04	TP-45	SAM	SOLID	05/23/2025	0.52	35.0	76.20
Q2109-01DUP	TP-02-MHFDUP	DUP	SOLID	05/23/2025	0.56	35.0	87.30
Q2109-01MS	TP-02-MHFMS	MS	SOLID	05/23/2025	0.54	35.0	87.30
Q2109-01MSD	TP-02-MHFMSD	MSD	SOLID	05/23/2025	0.54	35.0	87.30

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Instrument ID: CV1

Daily Analysis Runlog For Sequence/QCBatch ID # LB135901

Review By	MOHAN	Review On	5/28/2025 12:39:00 PM
Supervise By	jaswal	Supervise On	5/28/2025 1:44:45 PM

STD. NAME	STD REF.#
ICAL Standard	MP85749,MP85750,MP85751,MP85752,MP85753,MP85754
ICV Standard	MP85755
CCV Standard	MP85757
ICSA Standard	
CRI Standard	MP85759
LCS Standard	
Chk Standard	MP85756,MP85758,MP85760,MP85762

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	05/23/25 12:11		MOHAN	OK
2	S0.2	S0.2	CAL2	05/23/25 12:14		MOHAN	OK
3	S2.5	S2.5	CAL3	05/23/25 12:16		MOHAN	OK
4	S5	S5	CAL4	05/23/25 12:18		MOHAN	OK
5	S7.5	S7.5	CAL5	05/23/25 12:21		MOHAN	OK
6	S10	S10	CAL6	05/23/25 12:26		MOHAN	OK
7	ICV16	ICV16	ICV	05/23/25 12:29		MOHAN	OK
8	ICB16	ICB16	ICB	05/23/25 12:31		MOHAN	OK
9	CCV60	CCV60	CCV	05/23/25 12:34		MOHAN	OK
10	CCB60	CCB60	CCB	05/23/25 12:36		MOHAN	OK
11	CRA	CRA	CRDL	05/23/25 12:38		MOHAN	OK
12	HighStd	HighStd	HIGH STD	05/23/25 12:40		MOHAN	OK
13	ChkStd	ChkStd	SAM	05/23/25 12:43		MOHAN	OK
14	PB168145BS	PB168145BS	LCS	05/23/25 12:47		MOHAN	OK
15	Q2084-01	OR-640-COMP-66	SAM	05/23/25 12:50		MOHAN	OK
16	Q2087-01	NB-07-05202025	SAM	05/23/25 12:52		MOHAN	OK
17	Q2087-03	NB-08-05202025	SAM	05/23/25 12:54		MOHAN	OK
18	Q2087-03DUP	NB-08-05202025DUP	DUP	05/23/25 12:57		MOHAN	OK

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Instrument ID: CV1

Daily Analysis Runlog For Sequence/QCBatch ID # LB135901

Review By	MOHAN	Review On	5/28/2025 12:39:00 PM
Supervise By	jaswal	Supervise On	5/28/2025 1:44:45 PM

STD. NAME	STD REF.#
ICAL Standard	MP85749,MP85750,MP85751,MP85752,MP85753,MP85754
ICV Standard	MP85755
CCV Standard	MP85757
ICSA Standard	
CRI Standard	MP85759
LCS Standard	
Chk Standard	MP85756,MP85758,MP85760,MP85762

19	Q2087-03MS	NB-08-05202025MS	MS	05/23/25 12:59		MOHAN	OK
20	CCV61	CCV61	CCV	05/23/25 13:01		MOHAN	OK
21	CCB61	CCB61	CCB	05/23/25 13:03		MOHAN	OK
22	Q2087-03MSD	NB-08-05202025MSD	MSD	05/23/25 13:06		MOHAN	OK
23	Q2092-01	VNJ-202	SAM	05/23/25 13:08		MOHAN	OK
24	Q2093-01	SOIL-DRUM	SAM	05/23/25 13:10		MOHAN	OK
25	Q2095-01	WCS-TP1	SAM	05/23/25 13:13		MOHAN	OK
26	Q2095-05	WCS-TP2	SAM	05/23/25 13:15		MOHAN	OK
27	Q2097-01	ETGI-357	SAM	05/23/25 13:17		MOHAN	OK
28	Q2097-03	RBR200044	SAM	05/23/25 13:19		MOHAN	OK
29	Q2097-05	RBR251675	SAM	05/23/25 13:22		MOHAN	OK
30	Q2097-07	VNJ-244	SAM	05/23/25 13:24		MOHAN	OK
31	Q2097-09	ETGI-290	SAM	05/23/25 13:26		MOHAN	OK
32	CCV62	CCV62	CCV	05/23/25 13:28		MOHAN	OK
33	CCB62	CCB62	CCB	05/23/25 13:31		MOHAN	OK
34	Q2097-11	RT3419	SAM	05/23/25 13:33		MOHAN	OK
35	Q2097-13	RBR251372	SAM	05/23/25 13:35		MOHAN	OK
36	Q2097-15	72-12013	SAM	05/23/25 13:38		MOHAN	OK
37	Q2097-17	RT-3888	SAM	05/23/25 13:40		MOHAN	OK
38	PB168146BL	PB168146BL	MB	05/23/25 13:42		MOHAN	OK

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Instrument ID: CV1

Daily Analysis Runlog For Sequence/QCBatch ID # LB135901

Review By	MOHAN	Review On	5/28/2025 12:39:00 PM
Supervise By	jaswal	Supervise On	5/28/2025 1:44:45 PM

STD. NAME	STD REF.#
ICAL Standard	MP85749,MP85750,MP85751,MP85752,MP85753,MP85754
ICV Standard	MP85755
CCV Standard	MP85757
ICSA Standard	
CRI Standard	MP85759
LCS Standard	
Chk Standard	MP85756,MP85758,MP85760,MP85762

39	PB168146BS	PB168146BS	LCS	05/23/25 13:44		MOHAN	OK
40	Q2100-01	TP-16	SAM	05/23/25 13:47		MOHAN	OK
41	Q2100-02	TP-22	SAM	05/23/25 13:49		MOHAN	OK
42	Q2100-03	TP-21	SAM	05/23/25 13:51		MOHAN	OK
43	Q2100-04	TP-45	SAM	05/23/25 13:54		MOHAN	OK
44	CCV63	CCV63	CCV	05/23/25 13:56		MOHAN	OK
45	CCB63	CCB63	CCB	05/23/25 13:58		MOHAN	OK
46	Q2101-01	TP-1-MHE	SAM	05/23/25 14:00		MOHAN	OK
47	Q2102-01	LAW-25-0077	SAM	05/23/25 14:03		MOHAN	OK
48	Q2104-01	TR-06-052125	SAM	05/23/25 14:05		MOHAN	OK
49	Q2109-01	TP-02-MHF	SAM	05/23/25 14:07		MOHAN	OK
50	Q2109-01DUP	TP-02-MHFDUP	DUP	05/23/25 14:09		MOHAN	OK
51	Q2109-01MS	TP-02-MHFMS	MS	05/23/25 14:12		MOHAN	OK
52	Q2109-01MSD	TP-02-MHFMSD	MSD	05/23/25 14:14		MOHAN	OK
53	Q2112-01	EO-03-05222025	SAM	05/23/25 14:16		MOHAN	OK
54	Q2113-01	HD-02-05222025	SAM	05/23/25 14:19		MOHAN	OK
55	CCV64	CCV64	CCV	05/23/25 14:21		MOHAN	OK
56	CCB64	CCB64	CCB	05/23/25 14:23		MOHAN	OK
57	PB168145BL	PB168145BL	MB	05/23/25 14:26		MOHAN	OK
58	Q2087-03L	NB-08-05202025L	SD	05/23/25 14:28		MOHAN	OK

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Instrument ID: CV1

Daily Analysis Runlog For Sequence/QCBatch ID # LB135901

Review By	MOHAN	Review On	5/28/2025 12:39:00 PM
Supervise By	jaswal	Supervise On	5/28/2025 1:44:45 PM

STD. NAME	STD REF.#
ICAL Standard	MP85749,MP85750,MP85751,MP85752,MP85753,MP85754
ICV Standard	MP85755
CCV Standard	MP85757
ICSA Standard	
CRI Standard	MP85759
LCS Standard	
Chk Standard	MP85756,MP85758,MP85760,MP85762

59	Q2087-03A	NB-08-05202025A	PS	05/23/25 14:30		MOHAN	OK
60	Q2109-01L	TP-02-MHFL	SD	05/23/25 14:32		MOHAN	OK
61	Q2109-01A	TP-02-MHFA	PS	05/23/25 14:35		MOHAN	OK
62	CCV65	CCV65	CCV	05/23/25 14:37		MOHAN	OK
63	CCB65	CCB65	CCB	05/23/25 14:39		MOHAN	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB135969

Review By	Janvi	Review On	6/2/2025 2:55:11 PM
Supervise By	jaswal	Supervise On	6/3/2025 6:07:18 AM

STD. NAME	STD REF.#
ICAL Standard	MP85545,MP85552,MP85549,MP85548,MP85547,MP85546
ICV Standard	MP85553
CCV Standard	MP85556
ICSA Standard	MP85554,MP85555
CRI Standard	MP85552
LCS Standard	
Chk Standard	MP85557,MP85558

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	05/30/25 14:16		Jaswal	OK
2	S1	S1	CAL2	05/30/25 14:21		Jaswal	OK
3	S2	S2	CAL3	05/30/25 14:25		Jaswal	OK
4	S3	S3	CAL4	05/30/25 14:29		Jaswal	OK
5	S4	S4	CAL5	05/30/25 14:33		Jaswal	OK
6	S5	S5	CAL6	05/30/25 14:37		Jaswal	OK
7	ICV01	ICV01	ICV	05/30/25 15:13		Jaswal	OK
8	LLICV01	LLICV01	LLICV	05/30/25 15:21		Jaswal	OK
9	ICB01	ICB01	ICB	05/30/25 15:26		Jaswal	OK
10	CRI01	CRI01	CRDL	05/30/25 15:30		Jaswal	OK
11	ICSA01	ICSA01	ICSA	05/30/25 15:34		Jaswal	OK
12	ICSAB01	ICSAB01	ICSAB	05/30/25 15:49		Jaswal	OK
13	ICSADL	ICSADL	ICSA	05/30/25 15:53		Jaswal	OK
14	ICSABDL	ICSABDL	ICSAB	05/30/25 15:58		Jaswal	OK
15	CCV01	CCV01	CCV	05/30/25 16:02		Jaswal	OK
16	CCB01	CCB01	CCB	05/30/25 16:06		Jaswal	OK
17	Q2127-11	COMP-2	SAM	05/30/25 16:10		Jaswal	OK
18	Q2127-11DUP	COMP-2DUP	DUP	05/30/25 16:15		Jaswal	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB135969

Review By	Janvi	Review On	6/2/2025 2:55:11 PM
Supervise By	jaswal	Supervise On	6/3/2025 6:07:18 AM

STD. NAME	STD REF.#
ICAL Standard	MP85545,MP85552,MP85549,MP85548,MP85547,MP85546
ICV Standard	MP85553
CCV Standard	MP85556
ICSA Standard	MP85554,MP85555
CRI Standard	MP85552
LCS Standard	
Chk Standard	MP85557,MP85558

19	Q2127-11L	COMP-2L	SD	05/30/25 16:19		Jaswal	OK
20	Q2127-11MS	COMP-2MS	MS	05/30/25 16:23		Jaswal	OK
21	Q2127-11MSD	COMP-2MSD	MSD	05/30/25 16:27		Jaswal	OK
22	Q2127-11A	COMP-2A	PS	05/30/25 16:31		Jaswal	OK
23	PB168179BL	PB168179BL	MB	05/30/25 16:35		Jaswal	OK
24	PB168179BS	PB168179BS	LCS	05/30/25 16:39		Jaswal	OK
25	PB168167BL	PB168167BL	MB	05/30/25 16:43		Jaswal	OK
26	PB168167BS	PB168167BS	LCS	05/30/25 16:47		Jaswal	OK
27	CCV02	CCV02	CCV	05/30/25 16:52		Jaswal	OK
28	CCB02	CCB02	CCB	05/30/25 16:56		Jaswal	OK
29	PB168117BL	PB168117BL	MB	05/30/25 17:00		Jaswal	OK
30	PB168117BS	PB168117BS	LCS	05/30/25 17:04		Jaswal	OK
31	Q2101-01	TP-1-MHE	SAM	05/30/25 17:08		Jaswal	OK
32	Q2101-01DUP	TP-1-MHEDUP	DUP	05/30/25 17:12		Jaswal	OK
33	Q2101-01L	TP-1-MHEL	SD	05/30/25 17:17		Jaswal	OK
34	Q2101-01MS	TP-1-MHEMS	MS	05/30/25 17:21		Jaswal	OK
35	Q2101-01MSD	TP-1-MHEMSD	MSD	05/30/25 17:25		Jaswal	OK
36	Q2101-01A	TP-1-MHEA	PS	05/30/25 17:29		Jaswal	OK
37	Q2100-01	TP-16	SAM	05/30/25 17:33		Jaswal	OK
38	Q2100-02	TP-22	SAM	05/30/25 17:37		Jaswal	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB135969

Review By	Janvi	Review On	6/2/2025 2:55:11 PM
Supervise By	jaswal	Supervise On	6/3/2025 6:07:18 AM

STD. NAME	STD REF.#
ICAL Standard	MP85545,MP85552,MP85549,MP85548,MP85547,MP85546
ICV Standard	MP85553
CCV Standard	MP85556
ICSA Standard	MP85554,MP85555
CRI Standard	MP85552
LCS Standard	
Chk Standard	MP85557,MP85558

39	CCV03	CCV03	CCV	05/30/25 17:41		Jaswal	OK
40	CCB03	CCB03	CCB	05/30/25 17:45		Jaswal	OK
41	Q2100-03	TP-21	SAM	05/30/25 17:50		Jaswal	OK
42	Q2100-04	TP-45	SAM	05/30/25 17:54		Jaswal	OK
43	Q2130-01	TP-3	SAM	05/30/25 17:58		Jaswal	OK
44	Q2136-01	OR-646-COMP-52	SAM	05/30/25 18:02		Jaswal	OK
45	Q2137-01	MOO-25-0151	SAM	05/30/25 18:07	Ba High	Jaswal	Dilution
46	Q2138-01	SMALL-CONCRETE-I	SAM	05/30/25 18:11		Jaswal	OK
47	Q2139-01	BELL-25-0010	SAM	05/30/25 18:15		Jaswal	OK
48	Q2141-01	VNJ-215	SAM	05/30/25 18:19		Jaswal	OK
49	PB168199BL	PB168199BL	MB	05/30/25 18:24		Jaswal	OK
50	CCV04	CCV04	CCV	05/30/25 18:28		Jaswal	OK
51	CCB04	CCB04	CCB	05/30/25 18:32		Jaswal	OK
52	Q1872-10	HW0425-PT-MET-SO	SAM	05/30/25 18:37	Cd High	Jaswal	Dilution
53	Q1872-10RE	HW0425-PT-MET-SO	SAM	05/30/25 18:41	Not Use	Jaswal	Not Ok
54	Q1872-10DL	HW0425-PT-MET-SO	SAM	05/30/25 18:46	5X For Cd	Jaswal	Confirms
55	Q1872-10DLRE	HW0425-PT-MET-SO	SAM	05/30/25 18:50	Not Use	Jaswal	Not Ok
56	Q2137-01DL	MOO-25-0151DL	SAM	05/30/25 18:54	5X For Ba	Jaswal	Confirms
57	CCV05	CCV05	CCV	05/30/25 18:58		Jaswal	OK
58	CCB05	CCB05	CCB	05/30/25 19:02		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 # LB135969

Review By	Janvi	Review On	6/2/2025 2:55:11 PM
Supervise By	jaswal	Supervise On	6/3/2025 6:07:18 AM

STD. NAME	STD REF.#
ICAL Standard	MP85545,MP85552,MP85549,MP85548,MP85547,MP85546
ICV Standard	MP85553
CCV Standard	MP85556
ICSA Standard	MP85554,MP85555
CRI Standard	MP85552
LCS Standard	
Chk Standard	MP85557,MP85558

59	PB168199BS	PB168199BS	LCS	05/30/25 19:18		Jaswal	OK
60	PB167748BL	PB167748BL	MB	05/30/25 19:22		Jaswal	OK
61	PB167748BS	PB167748BS	LCS	05/30/25 19:26		Jaswal	OK
62	CCV06	CCV06	CCV	05/30/25 19:30		Jaswal	OK
63	CCB06	CCB06	CCB	05/30/25 19:34		Jaswal	OK

Alliance TECHNICAL GROUP

Soil/Sludge Metals Preparation Sheet

PB168117

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 #2 2. N/A

Start Digest Date: 05/21/2025 **Time :** 14:05 **Temp :** 96 °C

End Digest Date: 05/21/2025 **Time :** 16:10 **Temp :** 96 °C

Digestion tube ID: M6054

Block thermometer ID: MET-DIG. #2

Dig Technician Signature: SLG.

Supervisor Signature:

Temp : 1. 96°C 2. N/A

Standared Name	MLS USED	STD REF. # FROM LOG
LFS-1	1.00	M6005
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	M6125
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#2 CELL#35 96 C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
05/21/25 17:10	SLG-met dig	[illegible]
	Preparation Group	Analysis Group

Lab Sample ID	Client Sample ID	pH	Initial Weight (g)	Final Vol (ml)	Color Before	Color After	Texture	Artifact	Comment	Prep Pos
PB168117BL	PBS117	N/A	2.00	100	Colorless	Colorless	Fine	N/A	N/A	1
PB168117BS	LCS117	N/A	2.00	100	Colorless	Colorless	Fine	N/A	M6005,M6016	2
Q2100-01	TP-16	N/A	2.31	100	Brown	Yellow	Medium	N/A	N/A	3
Q2100-02	TP-22	N/A	2.23	100	Brown	Yellow	Medium	N/A	N/A	4
Q2100-03	TP-21	N/A	2.18	100	Brown	Yellow	Medium	N/A	N/A	5
Q2100-04	TP-45	N/A	2.18	100	Brown	Yellow	Medium	N/A	N/A	6
Q2101-01	TP-1-MHE	N/A	2.44	100	Brown	Yellow	Medium	N/A	N/A	7
Q2101-01MS	TP-1-MHEMS	N/A	2.33	100	Brown	Yellow	Medium	N/A	M6005,M6016	9
Q2101-01MSD	TP-1-MHEMSD	N/A	2.12	100	Brown	Yellow	Medium	N/A	M6005,M6016	10
Q2101-01DUP	TP-1-MHEDUP	N/A	2.22	100	Brown	Yellow	Medium	N/A	N/A	8
Q2102-01	LAW-25-0077	N/A	2.30	100	Brown	Yellow	Medium	N/A	N/A	11
Q2104-01	TR-06-052125	N/A	2.26	100	Brown	Yellow	Medium	N/A	N/A	12

Alliance TECHNICAL GROUP

Soil/Sludge Mercury Preparation Sheet

PB168146

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: 05/23/2025 **Time :** 09:50 **Temp :** 94 °C

End Digest Date: 05/23/2025 **Time :** 10:20 **Temp :** 94 °C

Digestion tube ID: M5595

Block thermometer ID: HG-DIG#3

Dig Technician Signature: MB

Supervisor Signature: 12

Temp : 1. 94°C 2. N/A

Standared Name	MLS USED	STD REF. # FROM LOG
ICV	30mL	MP85755
CCV	30mL	MP85757
CRA	30mL	MP85759
Blank Spike	0.48mL	MP85748
Matrix Spike	0.48mL	MP85748

Chemical Used	ML/SAMPLE USED	Lot Number
AQUA REGIA	1.5mL	MP85761
KMnO4 (5%)	4.5mL	MP85241
Hydroxylamine HCL (12%)	2.0mL	MP85243
PTFE Boiling Stones	----------	M4583
N/A	N/A	N/A
N/A	N/A	N/A
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	MP85749
0.05 ppb	S0.05	N/A	N/A
0.2 ppb	S0.2	30mL	MP85750
2.5 ppb	S2.5	30mL	MP85751
5.0 ppb	S5.0	30mL	MP85752
7.5 ppb	S7.5	30mL	MP85753
10.0 ppb	S10.0	30mL	MP85754
ICV	ICV	30mL	MP85755
ICB	ICB	30mL	MP85756
CCV	CCV	30mL	MP85757
CCB	CCB	30mL	MP85758
CRI	CRI	30mL	MP85759
CHK STD	CHK STD	30mL	MP85760

Extraction Conformance/Non-Conformance Comments:

N/A

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
5/23/25 @ 10:55	MB - DIG. LAB	MB - DIGE LAB
	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

Soil/Sludge Mercury Preparation Sheet

PB168146

Lab Sample ID	Client Sample ID	Initial Weight (g)	Final Vol (ml)	pH	Comment	Prep Pos
PB168146BL	PBS146	0.52	35	NA	N/A	3-22
PB168146BS	LCS146	0.54	35	NA	MP85748	23
Q2100-01	TP-16	0.60	35	NA	N/A	24
Q2100-02	TP-22	0.57	35	NA	N/A	25
Q2100-03	TP-21	0.52	35	NA	N/A	26
Q2100-04	TP-45	0.52	35	NA	N/A	27
Q2101-01	TP-1-MHE	0.51	35	NA	N/A	28
Q2102-01	LAW-25-0077	0.57	35	NA	N/A	29
Q2104-01	TR-06-052125	0.56	35	NA	N/A	30
Q2109-01	TP-02-MHF	0.59	35	NA	N/A	31
Q2109-01DUP	TP-02-MHFDUP	0.56	35	NA	N/A	32
Q2109-01MS	TP-02-MHFMS	0.54	35	NA	MP85748	33
Q2109-01MSD	TP-02-MHFMSD	0.54	35	NA	MP85748	34
Q2112-01	EO-03-05222025	0.55	35	NA	N/A	35
Q2113-01	HD-02-05222025	0.52	35	NA	N/A	36

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. Q2100
COC Number 2047012

13
13.1

CLIENT INFORMATION

REPORT TO BE SENT TO:
COMPANY: CDM SMITH
ADDRESS: 110 FIELDCREST AVE #8 6TH FLOOR
CITY EDISON STATE: NJ ZIP: 08837
ATTENTION: MARCIE ENCINAS
PHONE: 7325904679 FAX: 7322257851

CLIENT PROJECT INFORMATION

PROJECT NAME: SOUTH RIVER WM REPLACEMENT
PROJECT NO.: 302781 LOCATION: SOUTH RIVER, NJ
PROJECT MANAGER: MARCIE ENCINAS
e-mail: ENCINASMA@CDMSMITH.COM
PHONE: 7325904679 FAX: 7322257851

CLIENT BILLING INFORMATION

BILL TO: CDM SMITH PO#:
ADDRESS: 110 FIELDCREST AVE #8 6TH FLOOR
CITY EDISON STATE: NJ ZIP: 08837
ATTENTION: MARCIE ENCINAS PHONE: 7325904679

DATA TURNAROUND INFORMATION

FAX (RUSH) _____ DAYS*
HARDCOPY (DATA PACKAGE): _____ DAYS*
EDD: _____ DAYS*
*TO BE APPROVED BY CHEMTECH
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS

DATA DELIVERABLE INFORMATION

- ☐ Level 1 (Results Only)
- ☐ Level 2 (Results + QC)
- ☐ Level 3 (Results + QC + Raw Data)
- ☐ EDD FORMAT _____
- ☐ Level 4 (QC + Full Raw Data)
- ☒ NJ Reduced ☐ US EPA CLP
- ☐ NYS ASP A ☐ NYS ASP B
- ☐ Other _____

ANALYSIS

1: TCL VOC
2: TCL SVOC
3: TAL METALS
4: PCB
5: PESTICIDES
6: HERBICIDES
7: DRO/GRO
8:
9:

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.	TP-16	SOIL		X	5/19/25	1515	6	X	X	X	X	X	X	X			E
2.	TP-22	SOIL		X	5/19/25	1055	6	X	X	X	X	X	X	X			E
3.	TP-21	SOIL		X	5/20/25	0845	6	X	X	X	X	X	X	X			E
4.	TP-45	SOIL		X	5/20/25	1050	6	X	X	X	X	X	X	X			E
5.																	
6.																	
7.																	
8.																	
9.																	
10.																	

← 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.	5/20/25 1504	1. 5-20-25
RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:
2.		2.
RELINQUISHED BY SAMPLER:	DATE/TIME: 1625 5-20-25	RECEIVED BY:
3.		3.

Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP 3.8 °C
Comments:

Page ____ of

CLIENT: ☐ Hand Delivered ☐ Other

Shipment Complete ☐ YES ☐ NO

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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 : Q2100 CAMP02
Client Name : CDM Smith
Client Contact : Marcie Ann Encinas
Invoice Name : CDM Smith
Invoice Contact : Marcie Ann Encinas

Order Date : 5/20/2025 3:22:00 PM
Project Name : South River WM Replacem
Receive DateTime : 5/20/2025 ~~12:00:00~~ AM
Purchase Order : 16 25

Project Mgr :
Report Type : ~~Level I~~ NJ Reduce
EDD Type : EXCEL NOCLEANUP
Hard Copy Date :
Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
Q2100-01	TP-16	Solid	~~05/20/2025~~ 05/19/2025	15:15	VOC-TCLVOA-10		8260D		10 Bus. Days
Q2100-02	TP-22	Solid	~~05/20/2025~~ 05/19/2025	10:55	VOC-TCLVOA-10		8260D		10 Bus. Days
Q2100-03	TP-21	Solid	05/20/2025	08:45	VOC-TCLVOA-10		8260D		10 Bus. Days
Q2100-04	TP-45	Solid	05/20/2025	10:50	VOC-TCLVOA-10		8260D		10 Bus. Days

Tolcuts

Stored in VOA Frz #02
Extract. (C) - Sat #06

Relinguished By : [signature]
Date / Time : 5/21/25 945

Received By : [signature]
Date / Time : 5-21-25 10:25

Storage Area : VOA Refridgerator Room