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 : Q2074

ATTENTION : Marcie Ann Encinas

Laboratory Certification ID # 20012

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Cover Page

Order ID : Q2074

Project ID : South River WM Replacement

Client : CDM Smith

Lab Sample Number	Client Sample Number
Q2074-01	TP-12
Q2074-02	TP-7
Q2074-03	TP-15
Q2074-04	TP-20
Q2074-05	TP-38
Q2074-06	TP-19
Q2074-07	TP-40
Q2074-08	TP-18

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 9:43 am, May 28, 2025

Date: 5/28/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

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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 # Q2074
Test Name: VOC-TCLVOA-10

A. Number of Samples and Date of Receipt:
8 Solid samples were received on 05/16/2025.

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%] are failing high but no positive hit in associate sample 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%] are failing high but no positive hit in associate sample therefore no corrective action taken. The Blank analysis did not indicate the presence of lab contamination.

The Initial Calibration met the requirements.

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

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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 Sample #TP-12, TP-20 and TP-18 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.
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 9:44 am, May 28, 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 # Q2074
Test Name: Gasoline Range Organics

A. Number of Samples and Date of Receipt:
8 Solid samples were received on 05/16/2025.

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:

Sample TP-38 was directly run in methanol as both low level soil vials did not purge.

For samples TP-40 & TP-18 VIAL A and VIAL B was analyzed but instrument stopped and end CCC was missing therefore Vial C analyzed and reported in hardcopy
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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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 9:45 am, May 28, 2025

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CASE NARRATIVE

CDM Smith
Project Name: South River WM Replacement
Project # N/A
Order ID # Q2074
Test Name: SVOC-TCL BNA -20

A. Number of Samples and Date of Receipt:
8 Solid samples were received on 05/16/2025.

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 except for SS-11MS and SS-11MSD. Due to matrix interference. hence no corrective action is required.

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 BF142502.D met the requirements except for Bis(2-ethylhexyl)phthalate .Associated samples does not have hit for this compound, except sample TP-38 has hit for this compound at below CRQL with J flag, therefore no corrective action was required.

The Tuning criteria met requirements.

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

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

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 9:47 am, May 28, 2025

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CASE NARRATIVE

CDM Smith
Project Name: South River WM Replacement
Project # N/A
Order ID # Q2074
Test Name: Pesticide-TCL

A. Number of Samples and Date of Receipt:
8 Solid samples were received on 05/16/2025.

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 met the requirements .

E. Additional Comments:
The Sample #TP-15 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:
Please refer to the Manual integration Report included with the Run Logs for information on the manual integrations performed.

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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 9:47 am, May 28, 2025

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CASE NARRATIVE

CDM Smith
Project Name: South River WM Replacement
Project # N/A
Order ID # Q2074
Test Name: PCB

A. Number of Samples and Date of Receipt:
8 Solid samples were received on 05/16/2025.

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 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.

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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 9:47 am, May 28, 2025

284 Sheffield Street, Mountainside, NJ 07092
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CASE NARRATIVE

CDM Smith
Project Name: South River WM Replacement
Project # N/A
Order ID # Q2074
Test Name: Herbicide

A. Number of Samples and Date of Receipt:
8 Solid samples were received on 05/16/2025.

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 {Q2071-01MS} with File ID: PS030326.D recoveries met the requirements for all compounds except for [Dinoseb(1)- 9%],[Dinoseb(2)- 7%], due to matrix interference.

The MSD {Q2071-01MSD} with File ID: PS030327.D recoveries met the acceptable requirements except for [Dinoseb(1)- 8%],[Dinoseb(2)- 0%], due to matrix interference.

The RPD for File ID: PS030327.D met criteria except for [Dinoseb(2)- 200%], due to difference in results of MS-MSD.

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

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

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

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

Signature_____ APPROVED
By Nimisha Pandya, QA/QC Supervisor at 9:47 am, May 28, 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 # Q2074
Test Name: Diesel Range Organics

A. Number of Samples and Date of Receipt:
8 Solid samples were received on 05/16/2025.

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 {Q2032-05MS} with File ID: FG015873.D recoveries met the requirements for all compounds except for DRO[154%] due to matrix interference.

The MSD {Q2032-06MSD} with File ID: FG015874.D recoveries met the acceptable requirements except for DRO[158%]due to matrix interference.

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.

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Signature APPROVED
By Nimisha Pandya, QA/QC Supervisor at 9:47 am, May 28, 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 # Q2074
Test Name: Mercury,Metals ICP-TAL

A. Number of Samples and Date of Receipt:
8 Solid samples were received on 05/16/2025.

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 (PL-HRH-COMP-01DUP) analysis met criteria for all samples except for Arsenic, Chromium, Iron, Vanadium due to matrix interference.

The Matrix Spike (PL-HRH-COMP-01MS) analysis met criteria for all samples except for Antimony due to matrix interference.

The Matrix Spike Duplicate (PL-HRH-COMP-01MSD) analysis met criteria for all samples except for Antimony, Potassium due to matrix interference.

The Post Digest Spike (PL-HRH-COMP-01A) analysis met criteria for all samples except for Antimony and Potassium 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.

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:

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 9:48 am, May 28, 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

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DATA REPORTING QUALIFIERS- ORGANIC

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

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

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APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: Q2074

	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:** 05/28/2025

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

Hit Summary Sheet
SW-846

SDG No.: Q2074

Client: CDM Smith

Sample ID	Client ID	Matrix	Parameter		Concentration		C	MDL	RDL	Units
Client ID:	**TP-12**									
Q2074-01	TP-12	SOIL	Acetone		27.5			4.10	21.9	ug/Kg
			Total Voc :			27.5				
Q2074-01	TP-12	SOIL	11H-Dibenzo[b,e][1,4]diazepin	*	11.0		J	0	0	ug/Kg
			Total Tics :			11.0				
			Total Concentration:			38.5				
Client ID:	**TP-20**									
Q2074-04	TP-20	SOIL	Acetone		32.2			3.70	19.5	ug/Kg
			Total Voc :			32.2				
			Total Concentration:			32.2				
Client ID:	**TP-38**									
Q2074-05	TP-38	SOIL	Toluene		0.97		J	0.61	3.90	ug/Kg
			Total Voc :			0.97				
Q2074-05	TP-38	SOIL	Butane, 2-methyl-	*	11.0		J	0	0	ug/Kg
			Total Tics :			11.0				
			Total Concentration:			12.0				
Client ID:	**TP-19**									
Q2074-06	TP-19	SOIL	Acetone		11.3		J	3.80	20.3	ug/Kg
Q2074-06	TP-19	SOIL	Benzene		1.70		J	0.64	4.10	ug/Kg
			Total Voc :			13.0				
			Total Concentration:			13.0				
Client ID:	**TP-40**									
Q2074-07	TP-40	SOIL	Acetone		14.3		J	4.40	23.2	ug/Kg
			Total Voc :			14.3				
			Total Concentration:			14.3				
Client ID:	**TP-18**									
Q2074-08	TP-18	SOIL	Acetone		53.0			5.30	27.8	ug/Kg
			Total Voc :			53.0				
			Total Concentration:			53.0				

SAMPLE DATA

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Report of Analysis

Client:	CDM Smith	Date Collected:	05/15/25
Project:	South River WM Replacement	Date Received:	05/16/25
Client Sample ID:	TP-12	SDG No.:	Q2074
Lab Sample ID:	Q2074-01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	83.5
Sample Wt/Vol:	6.84 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
VY022389.D	1		05/22/25 12:35	VY052225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	1.00	U	1.00	4.40	ug/Kg
74-87-3	Chloromethane	1.00	U	1.00	4.40	ug/Kg
75-01-4	Vinyl Chloride	0.69	U	0.69	4.40	ug/Kg
74-83-9	Bromomethane	0.94	UQ	0.94	4.40	ug/Kg
75-00-3	Chloroethane	1.10	UQ	1.10	4.40	ug/Kg
75-69-4	Trichlorofluoromethane	1.10	U	1.10	4.40	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	0.93	U	0.93	4.40	ug/Kg
75-35-4	1,1-Dichloroethene	0.88	U	0.88	4.40	ug/Kg
67-64-1	Acetone	27.5		4.10	21.9	ug/Kg
75-15-0	Carbon Disulfide	0.93	U	0.93	4.40	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.64	U	0.64	4.40	ug/Kg
79-20-9	Methyl Acetate	1.30	U	1.30	4.40	ug/Kg
75-09-2	Methylene Chloride	3.10	U	3.10	8.80	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.75	U	0.75	4.40	ug/Kg
75-34-3	1,1-Dichloroethane	0.70	U	0.70	4.40	ug/Kg
110-82-7	Cyclohexane	0.69	U	0.69	4.40	ug/Kg
78-93-3	2-Butanone	5.70	U	5.70	21.9	ug/Kg
56-23-5	Carbon Tetrachloride	0.85	U	0.85	4.40	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.66	U	0.66	4.40	ug/Kg
74-97-5	Bromochloromethane	1.00	U	1.00	4.40	ug/Kg
67-66-3	Chloroform	0.74	U	0.74	4.40	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.81	U	0.81	4.40	ug/Kg
108-87-2	Methylcyclohexane	0.80	U	0.80	4.40	ug/Kg
71-43-2	Benzene	0.69	U	0.69	4.40	ug/Kg
107-06-2	1,2-Dichloroethane	0.69	U	0.69	4.40	ug/Kg
79-01-6	Trichloroethene	0.71	U	0.71	4.40	ug/Kg
78-87-5	1,2-Dichloropropane	0.80	U	0.80	4.40	ug/Kg
75-27-4	Bromodichloromethane	0.68	U	0.68	4.40	ug/Kg
108-10-1	4-Methyl-2-Pentanone	3.10	U	3.10	21.9	ug/Kg
108-88-3	Toluene	0.68	U	0.68	4.40	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	05/15/25
Project:	South River WM Replacement	Date Received:	05/16/25
Client Sample ID:	TP-12	SDG No.:	Q2074
Lab Sample ID:	Q2074-01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	83.5
Sample Wt/Vol:	6.84 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
VY022389.D	1		05/22/25 12:35	VY052225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.57	U	0.57	4.40	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.54	U	0.54	4.40	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.81	U	0.81	4.40	ug/Kg
591-78-6	2-Hexanone	3.20	U	3.20	21.9	ug/Kg
124-48-1	Dibromochloromethane	0.76	U	0.76	4.40	ug/Kg
106-93-4	1,2-Dibromoethane	0.77	U	0.77	4.40	ug/Kg
127-18-4	Tetrachloroethene	0.92	U	0.92	4.40	ug/Kg
108-90-7	Chlorobenzene	0.80	U	0.80	4.40	ug/Kg
100-41-4	Ethyl Benzene	0.59	U	0.59	4.40	ug/Kg
179601-23-1	m/p-Xylenes	1.10	U	1.10	8.80	ug/Kg
95-47-6	o-Xylene	0.72	U	0.72	4.40	ug/Kg
100-42-5	Styrene	0.62	U	0.62	4.40	ug/Kg
75-25-2	Bromoform	0.75	U	0.75	4.40	ug/Kg
98-82-8	Isopropylbenzene	0.68	U	0.68	4.40	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.10	U	1.10	4.40	ug/Kg
541-73-1	1,3-Dichlorobenzene	1.50	U	1.50	4.40	ug/Kg
106-46-7	1,4-Dichlorobenzene	1.40	U	1.40	4.40	ug/Kg
95-50-1	1,2-Dichlorobenzene	1.30	U	1.30	4.40	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1.60	U	1.60	4.40	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	2.60	U	2.60	4.40	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	2.80	U	2.80	4.40	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	48.7		63 - 155	97%	SPK: 50
1868-53-7	Dibromofluoromethane	50.7		70 - 134	101%	SPK: 50
2037-26-5	Toluene-d8	48.7		74 - 123	97%	SPK: 50
460-00-4	4-Bromofluorobenzene	40.3		38 - 136	81%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	253000	7.719			
540-36-3	1,4-Difluorobenzene	433000	8.622			
3114-55-4	Chlorobenzene-d5	349000	11.42			
3855-82-1	1,4-Dichlorobenzene-d4	131000	13.352			
TENTATIVE IDENTIFIED COMPOUNDS						

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Report of Analysis

Client:	CDM Smith	Date Collected:	05/15/25
Project:	South River WM Replacement	Date Received:	05/16/25
Client Sample ID:	TP-12	SDG No.:	Q2074
Lab Sample ID:	Q2074-01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	83.5
Sample Wt/Vol:	6.84 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
VY022389.D	1		05/22/25 12:35	VY052225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
013450-73-2	11H-Dibenzo[b,e][1,4]diazepin-11-o	11.0	J		13.9	ug/Kg

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

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

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Report of Analysis

Client:	CDM Smith	Date Collected:	05/15/25
Project:	South River WM Replacement	Date Received:	05/16/25
Client Sample ID:	TP-7	SDG No.:	Q2074
Lab Sample ID:	Q2074-02	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	88.7
Sample Wt/Vol:	7.18 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
VY022390.D	1		05/22/25 12:58	VY052225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	0.90	U	0.90	3.90	ug/Kg
74-87-3	Chloromethane	0.90	U	0.90	3.90	ug/Kg
75-01-4	Vinyl Chloride	0.62	U	0.62	3.90	ug/Kg
74-83-9	Bromomethane	0.84	UQ	0.84	3.90	ug/Kg
75-00-3	Chloroethane	0.99	UQ	0.99	3.90	ug/Kg
75-69-4	Trichlorofluoromethane	0.95	U	0.95	3.90	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	0.83	U	0.83	3.90	ug/Kg
75-35-4	1,1-Dichloroethene	0.79	U	0.79	3.90	ug/Kg
67-64-1	Acetone	3.70	U	3.70	19.6	ug/Kg
75-15-0	Carbon Disulfide	0.83	U	0.83	3.90	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.57	U	0.57	3.90	ug/Kg
79-20-9	Methyl Acetate	1.20	U	1.20	3.90	ug/Kg
75-09-2	Methylene Chloride	2.80	U	2.80	7.90	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.68	U	0.68	3.90	ug/Kg
75-34-3	1,1-Dichloroethane	0.63	U	0.63	3.90	ug/Kg
110-82-7	Cyclohexane	0.62	U	0.62	3.90	ug/Kg
78-93-3	2-Butanone	5.10	U	5.10	19.6	ug/Kg
56-23-5	Carbon Tetrachloride	0.76	U	0.76	3.90	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.59	U	0.59	3.90	ug/Kg
74-97-5	Bromochloromethane	0.90	U	0.90	3.90	ug/Kg
67-66-3	Chloroform	0.66	U	0.66	3.90	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.73	U	0.73	3.90	ug/Kg
108-87-2	Methylcyclohexane	0.71	U	0.71	3.90	ug/Kg
71-43-2	Benzene	0.62	U	0.62	3.90	ug/Kg
107-06-2	1,2-Dichloroethane	0.62	U	0.62	3.90	ug/Kg
79-01-6	Trichloroethene	0.64	U	0.64	3.90	ug/Kg
78-87-5	1,2-Dichloropropane	0.71	U	0.71	3.90	ug/Kg
75-27-4	Bromodichloromethane	0.61	U	0.61	3.90	ug/Kg
108-10-1	4-Methyl-2-Pentanone	2.80	U	2.80	19.6	ug/Kg
108-88-3	Toluene	0.61	U	0.61	3.90	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	05/15/25
Project:	South River WM Replacement	Date Received:	05/16/25
Client Sample ID:	TP-7	SDG No.:	Q2074
Lab Sample ID:	Q2074-02	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	88.7
Sample Wt/Vol:	7.18 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
VY022390.D	1		05/22/25 12:58	VY052225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.51	U	0.51	3.90	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.49	U	0.49	3.90	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.72	U	0.72	3.90	ug/Kg
591-78-6	2-Hexanone	2.90	U	2.90	19.6	ug/Kg
124-48-1	Dibromochloromethane	0.68	U	0.68	3.90	ug/Kg
106-93-4	1,2-Dibromoethane	0.69	U	0.69	3.90	ug/Kg
127-18-4	Tetrachloroethene	0.82	U	0.82	3.90	ug/Kg
108-90-7	Chlorobenzene	0.71	U	0.71	3.90	ug/Kg
100-41-4	Ethyl Benzene	0.53	U	0.53	3.90	ug/Kg
179601-23-1	m/p-Xylenes	0.97	U	0.97	7.90	ug/Kg
95-47-6	o-Xylene	0.64	U	0.64	3.90	ug/Kg
100-42-5	Styrene	0.56	U	0.56	3.90	ug/Kg
75-25-2	Bromoform	0.68	U	0.68	3.90	ug/Kg
98-82-8	Isopropylbenzene	0.61	U	0.61	3.90	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	0.95	U	0.95	3.90	ug/Kg
541-73-1	1,3-Dichlorobenzene	1.30	U	1.30	3.90	ug/Kg
106-46-7	1,4-Dichlorobenzene	1.20	U	1.20	3.90	ug/Kg
95-50-1	1,2-Dichlorobenzene	1.10	U	1.10	3.90	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1.40	U	1.40	3.90	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	2.30	U	2.30	3.90	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	2.50	U	2.50	3.90	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	47.6		63 - 155	95%	SPK: 50
1868-53-7	Dibromofluoromethane	50.1		70 - 134	100%	SPK: 50
2037-26-5	Toluene-d8	48.5		74 - 123	97%	SPK: 50
460-00-4	4-Bromofluorobenzene	39.7		38 - 136	79%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	246000	7.719			
540-36-3	1,4-Difluorobenzene	435000	8.622			
3114-55-4	Chlorobenzene-d5	350000	11.426			
3855-82-1	1,4-Dichlorobenzene-d4	128000	13.353			

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Report of Analysis

Client:	CDM Smith	Date Collected:	05/15/25
Project:	South River WM Replacement	Date Received:	05/16/25
Client Sample ID:	TP-7	SDG No.:	Q2074
Lab Sample ID:	Q2074-02	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	88.7
Sample Wt/Vol:	7.18 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
VY022390.D	1		05/22/25 12:58	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:	05/15/25
Project:	South River WM Replacement	Date Received:	05/16/25
Client Sample ID:	TP-15	SDG No.:	Q2074
Lab Sample ID:	Q2074-03	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	87
Sample Wt/Vol:	6.4 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
VY022391.D	1		05/22/25 13:22	VY052225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	1.00	U	1.00	4.50	ug/Kg
74-87-3	Chloromethane	1.00	U	1.00	4.50	ug/Kg
75-01-4	Vinyl Chloride	0.71	U	0.71	4.50	ug/Kg
74-83-9	Bromomethane	0.96	UQ	0.96	4.50	ug/Kg
75-00-3	Chloroethane	1.10	UQ	1.10	4.50	ug/Kg
75-69-4	Trichlorofluoromethane	1.10	U	1.10	4.50	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	0.95	U	0.95	4.50	ug/Kg
75-35-4	1,1-Dichloroethene	0.90	U	0.90	4.50	ug/Kg
67-64-1	Acetone	4.30	U	4.30	22.4	ug/Kg
75-15-0	Carbon Disulfide	0.95	U	0.95	4.50	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.66	U	0.66	4.50	ug/Kg
79-20-9	Methyl Acetate	1.40	U	1.40	4.50	ug/Kg
75-09-2	Methylene Chloride	3.20	U	3.20	9.00	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.77	U	0.77	4.50	ug/Kg
75-34-3	1,1-Dichloroethane	0.72	U	0.72	4.50	ug/Kg
110-82-7	Cyclohexane	0.71	U	0.71	4.50	ug/Kg
78-93-3	2-Butanone	5.90	U	5.90	22.4	ug/Kg
56-23-5	Carbon Tetrachloride	0.87	U	0.87	4.50	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.67	U	0.67	4.50	ug/Kg
74-97-5	Bromochloromethane	1.00	U	1.00	4.50	ug/Kg
67-66-3	Chloroform	0.75	U	0.75	4.50	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.84	U	0.84	4.50	ug/Kg
108-87-2	Methylcyclohexane	0.82	U	0.82	4.50	ug/Kg
71-43-2	Benzene	0.71	U	0.71	4.50	ug/Kg
107-06-2	1,2-Dichloroethane	0.71	U	0.71	4.50	ug/Kg
79-01-6	Trichloroethene	0.73	U	0.73	4.50	ug/Kg
78-87-5	1,2-Dichloropropane	0.82	U	0.82	4.50	ug/Kg
75-27-4	Bromodichloromethane	0.70	U	0.70	4.50	ug/Kg
108-10-1	4-Methyl-2-Pentanone	3.20	U	3.20	22.4	ug/Kg
108-88-3	Toluene	0.70	U	0.70	4.50	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	05/15/25
Project:	South River WM Replacement	Date Received:	05/16/25
Client Sample ID:	TP-15	SDG No.:	Q2074
Lab Sample ID:	Q2074-03	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	87
Sample Wt/Vol:	6.4 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
VY022391.D	1		05/22/25 13:22	VY052225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.58	U	0.58	4.50	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.56	U	0.56	4.50	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.83	U	0.83	4.50	ug/Kg
591-78-6	2-Hexanone	3.30	U	3.30	22.4	ug/Kg
124-48-1	Dibromochloromethane	0.78	U	0.78	4.50	ug/Kg
106-93-4	1,2-Dibromoethane	0.79	U	0.79	4.50	ug/Kg
127-18-4	Tetrachloroethene	0.94	U	0.94	4.50	ug/Kg
108-90-7	Chlorobenzene	0.82	U	0.82	4.50	ug/Kg
100-41-4	Ethyl Benzene	0.60	U	0.60	4.50	ug/Kg
179601-23-1	m/p-Xylenes	1.10	U	1.10	9.00	ug/Kg
95-47-6	o-Xylene	0.74	U	0.74	4.50	ug/Kg
100-42-5	Styrene	0.64	U	0.64	4.50	ug/Kg
75-25-2	Bromoform	0.77	U	0.77	4.50	ug/Kg
98-82-8	Isopropylbenzene	0.70	U	0.70	4.50	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.10	U	1.10	4.50	ug/Kg
541-73-1	1,3-Dichlorobenzene	1.50	U	1.50	4.50	ug/Kg
106-46-7	1,4-Dichlorobenzene	1.40	U	1.40	4.50	ug/Kg
95-50-1	1,2-Dichlorobenzene	1.30	U	1.30	4.50	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1.70	U	1.70	4.50	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	2.70	U	2.70	4.50	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	2.90	U	2.90	4.50	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	45.2		63 - 155	90%	SPK: 50
1868-53-7	Dibromofluoromethane	49.5		70 - 134	99%	SPK: 50
2037-26-5	Toluene-d8	48.2		74 - 123	96%	SPK: 50
460-00-4	4-Bromofluorobenzene	37.1		38 - 136	74%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	267000	7.72			
540-36-3	1,4-Difluorobenzene	463000	8.622			
3114-55-4	Chlorobenzene-d5	361000	11.426			
3855-82-1	1,4-Dichlorobenzene-d4	126000	13.353			

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Report of Analysis

Client:	CDM Smith	Date Collected:	05/15/25
Project:	South River WM Replacement	Date Received:	05/16/25
Client Sample ID:	TP-15	SDG No.:	Q2074
Lab Sample ID:	Q2074-03	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	87
Sample Wt/Vol:	6.4 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
VY022391.D	1		05/22/25 13:22	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:	05/15/25
Project:	South River WM Replacement	Date Received:	05/16/25
Client Sample ID:	TP-20	SDG No.:	Q2074
Lab Sample ID:	Q2074-04	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	84.3
Sample Wt/Vol:	7.61 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
VY022392.D	1		05/22/25 13:45	VY052225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	0.89	U	0.89	3.90	ug/Kg
74-87-3	Chloromethane	0.89	U	0.89	3.90	ug/Kg
75-01-4	Vinyl Chloride	0.62	U	0.62	3.90	ug/Kg
74-83-9	Bromomethane	0.83	UQ	0.83	3.90	ug/Kg
75-00-3	Chloroethane	0.98	UQ	0.98	3.90	ug/Kg
75-69-4	Trichlorofluoromethane	0.94	U	0.94	3.90	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	0.83	U	0.83	3.90	ug/Kg
75-35-4	1,1-Dichloroethene	0.78	U	0.78	3.90	ug/Kg
67-64-1	Acetone	32.2		3.70	19.5	ug/Kg
75-15-0	Carbon Disulfide	0.83	U	0.83	3.90	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.57	U	0.57	3.90	ug/Kg
79-20-9	Methyl Acetate	1.20	U	1.20	3.90	ug/Kg
75-09-2	Methylene Chloride	2.80	U	2.80	7.80	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.67	U	0.67	3.90	ug/Kg
75-34-3	1,1-Dichloroethane	0.62	U	0.62	3.90	ug/Kg
110-82-7	Cyclohexane	0.62	U	0.62	3.90	ug/Kg
78-93-3	2-Butanone	5.10	U	5.10	19.5	ug/Kg
56-23-5	Carbon Tetrachloride	0.76	U	0.76	3.90	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.58	U	0.58	3.90	ug/Kg
74-97-5	Bromochloromethane	0.90	U	0.90	3.90	ug/Kg
67-66-3	Chloroform	0.65	U	0.65	3.90	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.72	U	0.72	3.90	ug/Kg
108-87-2	Methylcyclohexane	0.71	U	0.71	3.90	ug/Kg
71-43-2	Benzene	0.62	U	0.62	3.90	ug/Kg
107-06-2	1,2-Dichloroethane	0.62	U	0.62	3.90	ug/Kg
79-01-6	Trichloroethene	0.63	U	0.63	3.90	ug/Kg
78-87-5	1,2-Dichloropropane	0.71	U	0.71	3.90	ug/Kg
75-27-4	Bromodichloromethane	0.61	U	0.61	3.90	ug/Kg
108-10-1	4-Methyl-2-Pentanone	2.80	U	2.80	19.5	ug/Kg
108-88-3	Toluene	0.61	U	0.61	3.90	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	05/15/25
Project:	South River WM Replacement	Date Received:	05/16/25
Client Sample ID:	TP-20	SDG No.:	Q2074
Lab Sample ID:	Q2074-04	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	84.3
Sample Wt/Vol:	7.61 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
VY022392.D	1		05/22/25 13:45	VY052225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.51	U	0.51	3.90	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.48	U	0.48	3.90	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.72	U	0.72	3.90	ug/Kg
591-78-6	2-Hexanone	2.90	U	2.90	19.5	ug/Kg
124-48-1	Dibromochloromethane	0.68	U	0.68	3.90	ug/Kg
106-93-4	1,2-Dibromoethane	0.69	U	0.69	3.90	ug/Kg
127-18-4	Tetrachloroethene	0.82	U	0.82	3.90	ug/Kg
108-90-7	Chlorobenzene	0.71	U	0.71	3.90	ug/Kg
100-41-4	Ethyl Benzene	0.52	U	0.52	3.90	ug/Kg
179601-23-1	m/p-Xylenes	0.97	U	0.97	7.80	ug/Kg
95-47-6	o-Xylene	0.64	U	0.64	3.90	ug/Kg
100-42-5	Styrene	0.55	U	0.55	3.90	ug/Kg
75-25-2	Bromoform	0.67	U	0.67	3.90	ug/Kg
98-82-8	Isopropylbenzene	0.61	U	0.61	3.90	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	0.94	U	0.94	3.90	ug/Kg
541-73-1	1,3-Dichlorobenzene	1.30	U	1.30	3.90	ug/Kg
106-46-7	1,4-Dichlorobenzene	1.20	U	1.20	3.90	ug/Kg
95-50-1	1,2-Dichlorobenzene	1.10	U	1.10	3.90	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1.40	U	1.40	3.90	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	2.30	U	2.30	3.90	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	2.50	U	2.50	3.90	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	49.8		63 - 155	100%	SPK: 50
1868-53-7	Dibromofluoromethane	50.7		70 - 134	101%	SPK: 50
2037-26-5	Toluene-d8	49.3		74 - 123	99%	SPK: 50
460-00-4	4-Bromofluorobenzene	40.2		38 - 136	80%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	243000	7.719			
540-36-3	1,4-Difluorobenzene	432000	8.622			
3114-55-4	Chlorobenzene-d5	350000	11.426			
3855-82-1	1,4-Dichlorobenzene-d4	131000	13.353			

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Report of Analysis

Client:	CDM Smith	Date Collected:	05/15/25
Project:	South River WM Replacement	Date Received:	05/16/25
Client Sample ID:	TP-20	SDG No.:	Q2074
Lab Sample ID:	Q2074-04	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	84.3
Sample Wt/Vol:	7.61 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
VY022392.D	1		05/22/25 13:45	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:	05/15/25
Project:	South River WM Replacement	Date Received:	05/16/25
Client Sample ID:	TP-38	SDG No.:	Q2074
Lab Sample ID:	Q2074-05	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	81.9
Sample Wt/Vol:	7.77 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
VY022393.D	1		05/22/25 14:09	VY052225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	0.90	U	0.90	3.90	ug/Kg
74-87-3	Chloromethane	0.90	U	0.90	3.90	ug/Kg
75-01-4	Vinyl Chloride	0.62	U	0.62	3.90	ug/Kg
74-83-9	Bromomethane	0.84	UQ	0.84	3.90	ug/Kg
75-00-3	Chloroethane	0.99	UQ	0.99	3.90	ug/Kg
75-69-4	Trichlorofluoromethane	0.95	U	0.95	3.90	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	0.83	U	0.83	3.90	ug/Kg
75-35-4	1,1-Dichloroethene	0.79	U	0.79	3.90	ug/Kg
67-64-1	Acetone	3.70	U	3.70	19.6	ug/Kg
75-15-0	Carbon Disulfide	0.83	U	0.83	3.90	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.57	U	0.57	3.90	ug/Kg
79-20-9	Methyl Acetate	1.20	U	1.20	3.90	ug/Kg
75-09-2	Methylene Chloride	2.80	U	2.80	7.90	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.68	U	0.68	3.90	ug/Kg
75-34-3	1,1-Dichloroethane	0.63	U	0.63	3.90	ug/Kg
110-82-7	Cyclohexane	0.62	U	0.62	3.90	ug/Kg
78-93-3	2-Butanone	5.10	U	5.10	19.6	ug/Kg
56-23-5	Carbon Tetrachloride	0.76	U	0.76	3.90	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.59	U	0.59	3.90	ug/Kg
74-97-5	Bromochloromethane	0.90	U	0.90	3.90	ug/Kg
67-66-3	Chloroform	0.66	U	0.66	3.90	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.73	U	0.73	3.90	ug/Kg
108-87-2	Methylcyclohexane	0.72	U	0.72	3.90	ug/Kg
71-43-2	Benzene	0.62	U	0.62	3.90	ug/Kg
107-06-2	1,2-Dichloroethane	0.62	U	0.62	3.90	ug/Kg
79-01-6	Trichloroethene	0.64	U	0.64	3.90	ug/Kg
78-87-5	1,2-Dichloropropane	0.72	U	0.72	3.90	ug/Kg
75-27-4	Bromodichloromethane	0.61	U	0.61	3.90	ug/Kg
108-10-1	4-Methyl-2-Pentanone	2.80	U	2.80	19.6	ug/Kg
108-88-3	Toluene	0.97	J	0.61	3.90	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	05/15/25
Project:	South River WM Replacement	Date Received:	05/16/25
Client Sample ID:	TP-38	SDG No.:	Q2074
Lab Sample ID:	Q2074-05	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	81.9
Sample Wt/Vol:	7.77 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
VY022393.D	1		05/22/25 14:09	VY052225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.51	U	0.51	3.90	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.49	U	0.49	3.90	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.72	U	0.72	3.90	ug/Kg
591-78-6	2-Hexanone	2.90	U	2.90	19.6	ug/Kg
124-48-1	Dibromochloromethane	0.68	U	0.68	3.90	ug/Kg
106-93-4	1,2-Dibromoethane	0.69	U	0.69	3.90	ug/Kg
127-18-4	Tetrachloroethene	0.83	U	0.83	3.90	ug/Kg
108-90-7	Chlorobenzene	0.72	U	0.72	3.90	ug/Kg
100-41-4	Ethyl Benzene	0.53	U	0.53	3.90	ug/Kg
179601-23-1	m/p-Xylenes	0.97	U	0.97	7.90	ug/Kg
95-47-6	o-Xylene	0.64	U	0.64	3.90	ug/Kg
100-42-5	Styrene	0.56	U	0.56	3.90	ug/Kg
75-25-2	Bromoform	0.68	U	0.68	3.90	ug/Kg
98-82-8	Isopropylbenzene	0.61	U	0.61	3.90	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	0.95	U	0.95	3.90	ug/Kg
541-73-1	1,3-Dichlorobenzene	1.30	U	1.30	3.90	ug/Kg
106-46-7	1,4-Dichlorobenzene	1.20	U	1.20	3.90	ug/Kg
95-50-1	1,2-Dichlorobenzene	1.10	U	1.10	3.90	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1.40	U	1.40	3.90	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	2.30	U	2.30	3.90	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	2.50	U	2.50	3.90	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	47.5		63 - 155	95%	SPK: 50
1868-53-7	Dibromofluoromethane	50.7		70 - 134	101%	SPK: 50
2037-26-5	Toluene-d8	49.0		74 - 123	98%	SPK: 50
460-00-4	4-Bromofluorobenzene	39.7		38 - 136	79%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	242000	7.72			
540-36-3	1,4-Difluorobenzene	427000	8.622			
3114-55-4	Chlorobenzene-d5	344000	11.42			
3855-82-1	1,4-Dichlorobenzene-d4	128000	13.353			
TENTATIVE IDENTIFIED COMPOUNDS						

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Report of Analysis

Client:	CDM Smith	Date Collected:	05/15/25
Project:	South River WM Replacement	Date Received:	05/16/25
Client Sample ID:	TP-38	SDG No.:	Q2074
Lab Sample ID:	Q2074-05	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	81.9
Sample Wt/Vol:	7.77 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
VY022393.D	1		05/22/25 14:09	VY052225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
000078-78-4	Butane, 2-methyl-	11.0	J		2.85	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:	05/15/25
Project:	South River WM Replacement	Date Received:	05/16/25
Client Sample ID:	TP-19	SDG No.:	Q2074
Lab Sample ID:	Q2074-06	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	85.9
Sample Wt/Vol:	7.18 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
VY022394.D	1		05/22/25 14:32	VY052225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	0.92	U	0.92	4.10	ug/Kg
74-87-3	Chloromethane	0.92	U	0.92	4.10	ug/Kg
75-01-4	Vinyl Chloride	0.64	U	0.64	4.10	ug/Kg
74-83-9	Bromomethane	0.87	UQ	0.87	4.10	ug/Kg
75-00-3	Chloroethane	1.00	UQ	1.00	4.10	ug/Kg
75-69-4	Trichlorofluoromethane	0.98	U	0.98	4.10	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	0.86	U	0.86	4.10	ug/Kg
75-35-4	1,1-Dichloroethene	0.81	U	0.81	4.10	ug/Kg
67-64-1	Acetone	11.3	J	3.80	20.3	ug/Kg
75-15-0	Carbon Disulfide	0.86	U	0.86	4.10	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.59	U	0.59	4.10	ug/Kg
79-20-9	Methyl Acetate	1.20	U	1.20	4.10	ug/Kg
75-09-2	Methylene Chloride	2.90	U	2.90	8.10	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.70	U	0.70	4.10	ug/Kg
75-34-3	1,1-Dichloroethane	0.65	U	0.65	4.10	ug/Kg
110-82-7	Cyclohexane	0.64	U	0.64	4.10	ug/Kg
78-93-3	2-Butanone	5.30	U	5.30	20.3	ug/Kg
56-23-5	Carbon Tetrachloride	0.79	U	0.79	4.10	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.61	U	0.61	4.10	ug/Kg
74-97-5	Bromochloromethane	0.93	U	0.93	4.10	ug/Kg
67-66-3	Chloroform	0.68	U	0.68	4.10	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.75	U	0.75	4.10	ug/Kg
108-87-2	Methylcyclohexane	0.74	U	0.74	4.10	ug/Kg
71-43-2	Benzene	1.70	J	0.64	4.10	ug/Kg
107-06-2	1,2-Dichloroethane	0.64	U	0.64	4.10	ug/Kg
79-01-6	Trichloroethene	0.66	U	0.66	4.10	ug/Kg
78-87-5	1,2-Dichloropropane	0.74	U	0.74	4.10	ug/Kg
75-27-4	Bromodichloromethane	0.63	U	0.63	4.10	ug/Kg
108-10-1	4-Methyl-2-Pentanone	2.90	U	2.90	20.3	ug/Kg
108-88-3	Toluene	0.63	U	0.63	4.10	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	05/15/25
Project:	South River WM Replacement	Date Received:	05/16/25
Client Sample ID:	TP-19	SDG No.:	Q2074
Lab Sample ID:	Q2074-06	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	85.9
Sample Wt/Vol:	7.18 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
VY022394.D	1		05/22/25 14:32	VY052225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.53	U	0.53	4.10	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.50	4.10	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.75	U	0.75	4.10	ug/Kg
591-78-6	2-Hexanone	3.00	U	3.00	20.3	ug/Kg
124-48-1	Dibromochloromethane	0.71	U	0.71	4.10	ug/Kg
106-93-4	1,2-Dibromoethane	0.71	U	0.71	4.10	ug/Kg
127-18-4	Tetrachloroethene	0.85	U	0.85	4.10	ug/Kg
108-90-7	Chlorobenzene	0.74	U	0.74	4.10	ug/Kg
100-41-4	Ethyl Benzene	0.54	U	0.54	4.10	ug/Kg
179601-23-1	m/p-Xylenes	1.00	U	1.00	8.10	ug/Kg
95-47-6	o-Xylene	0.66	U	0.66	4.10	ug/Kg
100-42-5	Styrene	0.58	U	0.58	4.10	ug/Kg
75-25-2	Bromoform	0.70	U	0.70	4.10	ug/Kg
98-82-8	Isopropylbenzene	0.63	U	0.63	4.10	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	0.98	U	0.98	4.10	ug/Kg
541-73-1	1,3-Dichlorobenzene	1.40	U	1.40	4.10	ug/Kg
106-46-7	1,4-Dichlorobenzene	1.30	U	1.30	4.10	ug/Kg
95-50-1	1,2-Dichlorobenzene	1.20	U	1.20	4.10	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1.50	U	1.50	4.10	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	2.40	U	2.40	4.10	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	2.60	U	2.60	4.10	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	46.6		63 - 155	93%	SPK: 50
1868-53-7	Dibromofluoromethane	49.7		70 - 134	99%	SPK: 50
2037-26-5	Toluene-d8	48.0		74 - 123	96%	SPK: 50
460-00-4	4-Bromofluorobenzene	33.7		38 - 136	67%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	232000	7.719			
540-36-3	1,4-Difluorobenzene	399000	8.622			
3114-55-4	Chlorobenzene-d5	296000	11.42			
3855-82-1	1,4-Dichlorobenzene-d4	94100	13.353			

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Report of Analysis

Client:	CDM Smith	Date Collected:	05/15/25
Project:	South River WM Replacement	Date Received:	05/16/25
Client Sample ID:	TP-19	SDG No.:	Q2074
Lab Sample ID:	Q2074-06	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	85.9
Sample Wt/Vol:	7.18 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
VY022394.D	1		05/22/25 14:32	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:	05/15/25
Project:	South River WM Replacement	Date Received:	05/16/25
Client Sample ID:	TP-40	SDG No.:	Q2074
Lab Sample ID:	Q2074-07	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	89.2
Sample Wt/Vol:	6.04 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
VY022395.D	1		05/22/25 14:55	VY052225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	1.10	U	1.10	4.60	ug/Kg
74-87-3	Chloromethane	1.10	U	1.10	4.60	ug/Kg
75-01-4	Vinyl Chloride	0.73	U	0.73	4.60	ug/Kg
74-83-9	Bromomethane	0.99	UQ	0.99	4.60	ug/Kg
75-00-3	Chloroethane	1.20	UQ	1.20	4.60	ug/Kg
75-69-4	Trichlorofluoromethane	1.10	U	1.10	4.60	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	0.98	U	0.98	4.60	ug/Kg
75-35-4	1,1-Dichloroethene	0.93	U	0.93	4.60	ug/Kg
67-64-1	Acetone	14.3	J	4.40	23.2	ug/Kg
75-15-0	Carbon Disulfide	0.98	U	0.98	4.60	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.68	U	0.68	4.60	ug/Kg
79-20-9	Methyl Acetate	1.40	U	1.40	4.60	ug/Kg
75-09-2	Methylene Chloride	3.30	U	3.30	9.30	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.80	U	0.80	4.60	ug/Kg
75-34-3	1,1-Dichloroethane	0.74	U	0.74	4.60	ug/Kg
110-82-7	Cyclohexane	0.73	U	0.73	4.60	ug/Kg
78-93-3	2-Butanone	6.10	U	6.10	23.2	ug/Kg
56-23-5	Carbon Tetrachloride	0.90	U	0.90	4.60	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.70	U	0.70	4.60	ug/Kg
74-97-5	Bromochloromethane	1.10	U	1.10	4.60	ug/Kg
67-66-3	Chloroform	0.78	U	0.78	4.60	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.86	U	0.86	4.60	ug/Kg
108-87-2	Methylcyclohexane	0.84	U	0.84	4.60	ug/Kg
71-43-2	Benzene	0.73	U	0.73	4.60	ug/Kg
107-06-2	1,2-Dichloroethane	0.73	U	0.73	4.60	ug/Kg
79-01-6	Trichloroethene	0.75	U	0.75	4.60	ug/Kg
78-87-5	1,2-Dichloropropane	0.84	U	0.84	4.60	ug/Kg
75-27-4	Bromodichloromethane	0.72	U	0.72	4.60	ug/Kg
108-10-1	4-Methyl-2-Pentanone	3.30	U	3.30	23.2	ug/Kg
108-88-3	Toluene	0.72	U	0.72	4.60	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	05/15/25
Project:	South River WM Replacement	Date Received:	05/16/25
Client Sample ID:	TP-40	SDG No.:	Q2074
Lab Sample ID:	Q2074-07	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	89.2
Sample Wt/Vol:	6.04 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
VY022395.D	1		05/22/25 14:55	VY052225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.60	U	0.60	4.60	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.58	U	0.58	4.60	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.85	U	0.85	4.60	ug/Kg
591-78-6	2-Hexanone	3.40	U	3.40	23.2	ug/Kg
124-48-1	Dibromochloromethane	0.81	U	0.81	4.60	ug/Kg
106-93-4	1,2-Dibromoethane	0.82	U	0.82	4.60	ug/Kg
127-18-4	Tetrachloroethene	0.97	U	0.97	4.60	ug/Kg
108-90-7	Chlorobenzene	0.84	U	0.84	4.60	ug/Kg
100-41-4	Ethyl Benzene	0.62	U	0.62	4.60	ug/Kg
179601-23-1	m/p-Xylenes	1.20	U	1.20	9.30	ug/Kg
95-47-6	o-Xylene	0.76	U	0.76	4.60	ug/Kg
100-42-5	Styrene	0.66	U	0.66	4.60	ug/Kg
75-25-2	Bromoform	0.80	U	0.80	4.60	ug/Kg
98-82-8	Isopropylbenzene	0.72	U	0.72	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	2.80	U	2.80	4.60	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	3.00	U	3.00	4.60	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	46.7		63 - 155	93%	SPK: 50
1868-53-7	Dibromofluoromethane	49.0		70 - 134	98%	SPK: 50
2037-26-5	Toluene-d8	47.7		74 - 123	95%	SPK: 50
460-00-4	4-Bromofluorobenzene	36.5		38 - 136	73%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	164000	7.719			
540-36-3	1,4-Difluorobenzene	278000	8.622			
3114-55-4	Chlorobenzene-d5	213000	11.42			
3855-82-1	1,4-Dichlorobenzene-d4	75600	13.352			

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Report of Analysis

Client:	CDM Smith	Date Collected:	05/15/25
Project:	South River WM Replacement	Date Received:	05/16/25
Client Sample ID:	TP-40	SDG No.:	Q2074
Lab Sample ID:	Q2074-07	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	89.2
Sample Wt/Vol:	6.04 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
VY022395.D	1		05/22/25 14:55	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:	05/16/25
Project:	South River WM Replacement	Date Received:	05/16/25
Client Sample ID:	TP-18	SDG No.:	Q2074
Lab Sample ID:	Q2074-08	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	78
Sample Wt/Vol:	5.77 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
VY022396.D	1		05/22/25 15:19	VY052225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	1.30	U	1.30	5.60	ug/Kg
74-87-3	Chloromethane	1.30	U	1.30	5.60	ug/Kg
75-01-4	Vinyl Chloride	0.88	U	0.88	5.60	ug/Kg
74-83-9	Bromomethane	1.20	UQ	1.20	5.60	ug/Kg
75-00-3	Chloroethane	1.40	UQ	1.40	5.60	ug/Kg
75-69-4	Trichlorofluoromethane	1.30	U	1.30	5.60	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	1.20	U	1.20	5.60	ug/Kg
75-35-4	1,1-Dichloroethene	1.10	U	1.10	5.60	ug/Kg
67-64-1	Acetone	53.0		5.30	27.8	ug/Kg
75-15-0	Carbon Disulfide	1.20	U	1.20	5.60	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.81	U	0.81	5.60	ug/Kg
79-20-9	Methyl Acetate	1.70	U	1.70	5.60	ug/Kg
75-09-2	Methylene Chloride	3.90	U	3.90	11.1	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.96	U	0.96	5.60	ug/Kg
75-34-3	1,1-Dichloroethane	0.89	U	0.89	5.60	ug/Kg
110-82-7	Cyclohexane	0.88	U	0.88	5.60	ug/Kg
78-93-3	2-Butanone	7.30	U	7.30	27.8	ug/Kg
56-23-5	Carbon Tetrachloride	1.10	U	1.10	5.60	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.83	U	0.83	5.60	ug/Kg
74-97-5	Bromochloromethane	1.30	U	1.30	5.60	ug/Kg
67-66-3	Chloroform	0.93	U	0.93	5.60	ug/Kg
71-55-6	1,1,1-Trichloroethane	1.00	U	1.00	5.60	ug/Kg
108-87-2	Methylcyclohexane	1.00	U	1.00	5.60	ug/Kg
71-43-2	Benzene	0.88	U	0.88	5.60	ug/Kg
107-06-2	1,2-Dichloroethane	0.88	U	0.88	5.60	ug/Kg
79-01-6	Trichloroethene	0.90	U	0.90	5.60	ug/Kg
78-87-5	1,2-Dichloropropane	1.00	U	1.00	5.60	ug/Kg
75-27-4	Bromodichloromethane	0.87	U	0.87	5.60	ug/Kg
108-10-1	4-Methyl-2-Pentanone	4.00	U	4.00	27.8	ug/Kg
108-88-3	Toluene	0.87	U	0.87	5.60	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	05/16/25
Project:	South River WM Replacement	Date Received:	05/16/25
Client Sample ID:	TP-18	SDG No.:	Q2074
Lab Sample ID:	Q2074-08	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	78
Sample Wt/Vol:	5.77 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
VY022396.D	1		05/22/25 15:19	VY052225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.72	U	0.72	5.60	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.69	U	0.69	5.60	ug/Kg
79-00-5	1,1,2-Trichloroethane	1.00	U	1.00	5.60	ug/Kg
591-78-6	2-Hexanone	4.10	U	4.10	27.8	ug/Kg
124-48-1	Dibromochloromethane	0.97	U	0.97	5.60	ug/Kg
106-93-4	1,2-Dibromoethane	0.98	U	0.98	5.60	ug/Kg
127-18-4	Tetrachloroethene	1.20	U	1.20	5.60	ug/Kg
108-90-7	Chlorobenzene	1.00	U	1.00	5.60	ug/Kg
100-41-4	Ethyl Benzene	0.74	U	0.74	5.60	ug/Kg
179601-23-1	m/p-Xylenes	1.40	U	1.40	11.1	ug/Kg
95-47-6	o-Xylene	0.91	U	0.91	5.60	ug/Kg
100-42-5	Styrene	0.79	U	0.79	5.60	ug/Kg
75-25-2	Bromoform	0.96	U	0.96	5.60	ug/Kg
98-82-8	Isopropylbenzene	0.87	U	0.87	5.60	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.30	U	1.30	5.60	ug/Kg
541-73-1	1,3-Dichlorobenzene	1.90	U	1.90	5.60	ug/Kg
106-46-7	1,4-Dichlorobenzene	1.70	U	1.70	5.60	ug/Kg
95-50-1	1,2-Dichlorobenzene	1.60	U	1.60	5.60	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	2.00	U	2.00	5.60	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	3.30	U	3.30	5.60	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	3.50	U	3.50	5.60	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	46.9		63 - 155	94%	SPK: 50
1868-53-7	Dibromofluoromethane	48.5		70 - 134	97%	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	237000	7.719			
540-36-3	1,4-Difluorobenzene	424000	8.622			
3114-55-4	Chlorobenzene-d5	328000	11.42			
3855-82-1	1,4-Dichlorobenzene-d4	117000	13.352			

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Report of Analysis

Client:	CDM Smith	Date Collected:	05/16/25
Project:	South River WM Replacement	Date Received:	05/16/25
Client Sample ID:	TP-18	SDG No.:	Q2074
Lab Sample ID:	Q2074-08	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	78
Sample Wt/Vol:	5.77 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
VY022396.D	1		05/22/25 15:19	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.: Q2074

Client: CDM Smith

Analytical Method: SW8260D

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits Low	Limits High
Q2074-01	TP-12	1,2-Dichloroethane-d4	50	48.7	97	63	155
		Dibromofluoromethane	50	50.7	101	70	134
		Toluene-d8	50	48.7	97	74	123
		4-Bromofluorobenzene	50	40.3	81	38	136
Q2074-02	TP-7	1,2-Dichloroethane-d4	50	47.6	95	63	155
		Dibromofluoromethane	50	50.0	100	70	134
		Toluene-d8	50	48.5	97	74	123
		4-Bromofluorobenzene	50	39.7	79	38	136
Q2074-03	TP-15	1,2-Dichloroethane-d4	50	45.2	90	63	155
		Dibromofluoromethane	50	49.5	99	70	134
		Toluene-d8	50	48.2	96	74	123
		4-Bromofluorobenzene	50	37.1	74	38	136
Q2074-04	TP-20	1,2-Dichloroethane-d4	50	49.9	100	63	155
		Dibromofluoromethane	50	50.7	101	70	134
		Toluene-d8	50	49.3	99	74	123
		4-Bromofluorobenzene	50	40.1	80	38	136
Q2074-05	TP-38	1,2-Dichloroethane-d4	50	47.5	95	63	155
		Dibromofluoromethane	50	50.7	101	70	134
		Toluene-d8	50	49.0	98	74	123
		4-Bromofluorobenzene	50	39.7	79	38	136
Q2074-06	TP-19	1,2-Dichloroethane-d4	50	46.6	93	63	155
		Dibromofluoromethane	50	49.7	99	70	134
		Toluene-d8	50	48.0	96	74	123
		4-Bromofluorobenzene	50	33.7	67	38	136
Q2074-07	TP-40	1,2-Dichloroethane-d4	50	46.7	93	63	155
		Dibromofluoromethane	50	49.0	98	70	134
		Toluene-d8	50	47.7	95	74	123
		4-Bromofluorobenzene	50	36.5	73	38	136
Q2074-08	TP-18	1,2-Dichloroethane-d4	50	46.9	94	63	155
		Dibromofluoromethane	50	48.5	97	70	134
		Toluene-d8	50	47.9	96	74	123
		4-Bromofluorobenzene	50	37.3	75	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

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2074

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.: Q2074

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.: Q2074

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.: Q2074

Client: CDM Smith

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

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	Limits 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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VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VY0522SBL01

Lab Name: CHEMTECH Contract: CAMP02

Lab Code: CHEM Case No.: Q2074 SAS No.: Q2074 SDG NO.: Q2074

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-12	Q2074-01	VY022389.D	05/22/2025
TP-7	Q2074-02	VY022390.D	05/22/2025
TP-15	Q2074-03	VY022391.D	05/22/2025
TP-20	Q2074-04	VY022392.D	05/22/2025
TP-38	Q2074-05	VY022393.D	05/22/2025
TP-19	Q2074-06	VY022394.D	05/22/2025
TP-40	Q2074-07	VY022395.D	05/22/2025
TP-18	Q2074-08	VY022396.D	05/22/2025

COMMENTS:

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: CAMP02

Lab Code: CHEM Case No.: Q2074 SAS No.: Q2074 SDG NO.: Q2074

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.: Q2074 SAS No.: Q2074 SDG NO.: Q2074

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-12	Q2074-01	VY022389.D	05/22/2025	12:35
TP-7	Q2074-02	VY022390.D	05/22/2025	12:58
TP-15	Q2074-03	VY022391.D	05/22/2025	13:22
TP-20	Q2074-04	VY022392.D	05/22/2025	13:45
TP-38	Q2074-05	VY022393.D	05/22/2025	14:09
TP-19	Q2074-06	VY022394.D	05/22/2025	14:32
TP-40	Q2074-07	VY022395.D	05/22/2025	14:55
TP-18	Q2074-08	VY022396.D	05/22/2025	15:19

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: CAMP02

Lab Code: CHEM Case No.: Q2074 SAS No.: Q2074 SDG NO.: Q2074

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-12	252950	7.72	432513	8.62	349129	11.42
TP-7	245848	7.72	434620	8.62	349949	11.43
TP-15	266999	7.72	463257	8.62	360854	11.43
TP-20	243454	7.72	431875	8.62	349983	11.43
TP-38	242112	7.72	427478	8.62	344204	11.42
TP-19	231559	7.72	398601	8.62	296277	11.42
TP-40	163884	7.72	278478	8.62	213324	11.42
TP-18	236909	7.72	424090	8.62	327971	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.: Q2074 SAS No.: Q2074 SDG NO.: Q2074

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-12	130898	13.35				
TP-7	127586	13.35				
TP-15	125655	13.35				
TP-20	131238	13.35				
TP-38	128188	13.35				
TP-19	94056	13.35				
TP-40	75609	13.35				
TP-18	117014	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.

QC SAMPLE DATA

Alliance TECHNICAL GROUP
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Fax : 908 789 8922

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VY0522SBL01	SDG No.:	Q2074
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.:	Q2074
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.:	Q2074
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:	VY0522SBS01	SDG No.:	Q2074
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.:	Q2074
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.:	Q2074
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:	VY0522SBSD01	SDG No.:	Q2074
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.:	Q2074
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.:	Q2074
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.: Q2074 SAS No.: Q2074 SDG No.: Q2074

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.: Q2074 SAS No.: Q2074 SDG No.: Q2074

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.: Q2074 SAS No.: Q2074 SDG No.: Q2074

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.: Q2074 SAS No.: Q2074 SDG No.: Q2074

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.

SAMPLE RAW DATA

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052225\
Data File : VY022389.D
Acq On : 22 May 2025 12:35
Operator : SY/MD
Sample : Q2074-01
Misc : 6.84g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-12

Quant Time: May 23 03:36:16 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

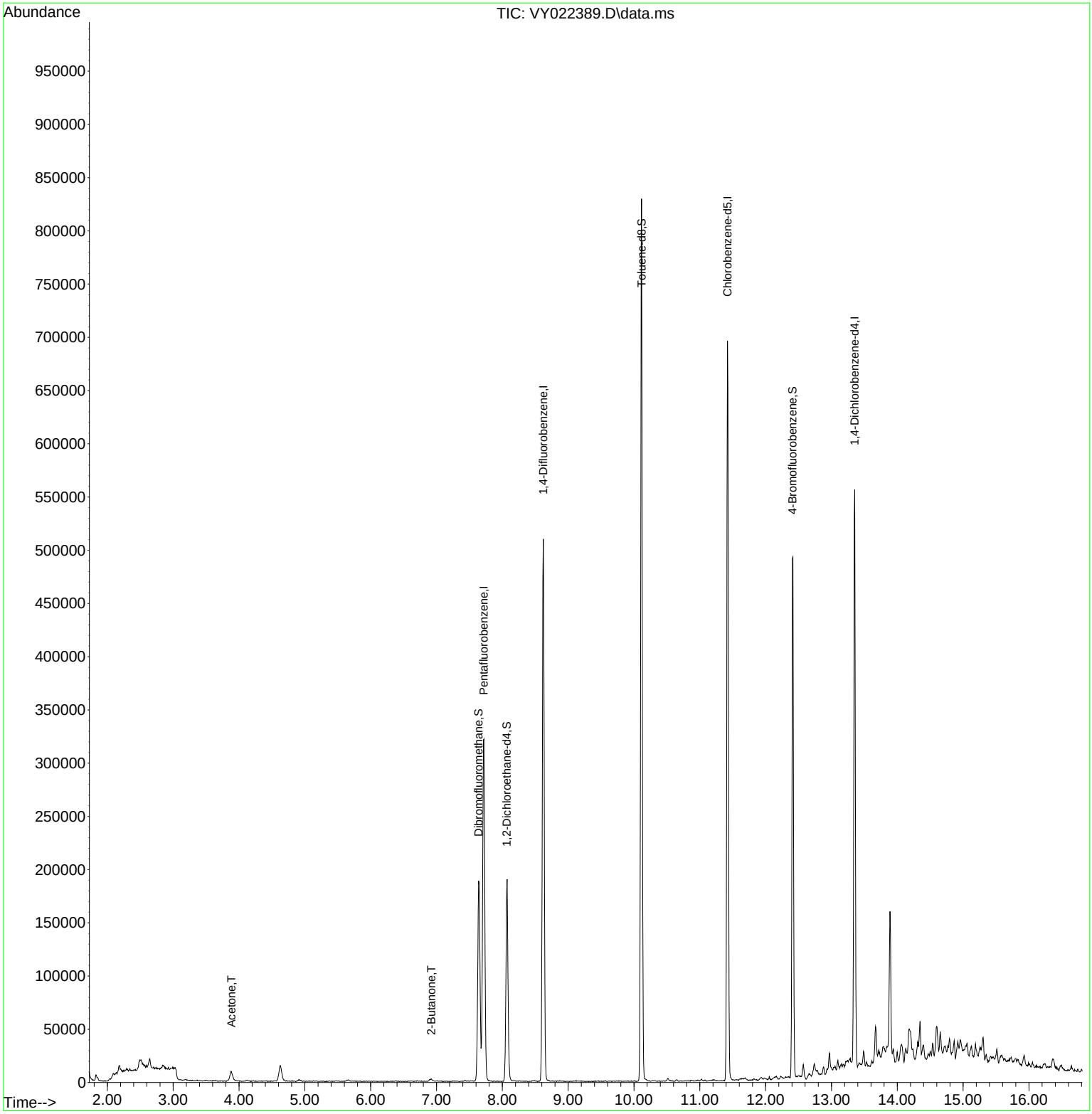
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.719	168	252950	50.000	ug/l	0.01
34) 1,4-Difluorobenzene	8.622	114	432513	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	349129	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.352	152	130898	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.067	65	134665	48.712	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 97.420%			
35) Dibromofluoromethane	7.640	113	130934	50.720	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 101.440%			
50) Toluene-d8	10.115	98	514682	48.680	ug/l	0.01
Spiked Amount 50.000	Range 58 - 134		Recovery = 97.360%			
62) 4-Bromofluorobenzene	12.408	95	135002	40.285	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 80.580%			
Target Compounds						Qvalue
16) Acetone	3.885	43	16297	31.439	ug/l	95
25) 2-Butanone	6.921	43	3551	4.095	ug/l	97

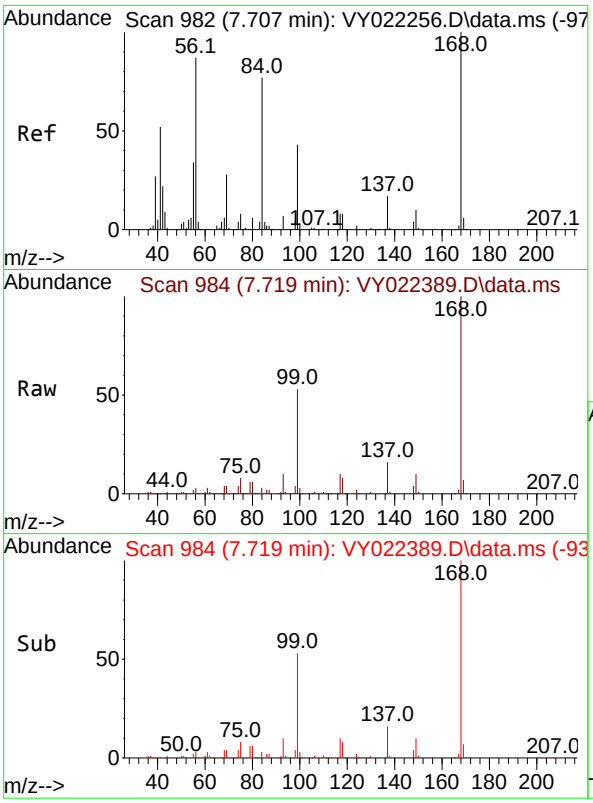
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052225\
Data File : VY022389.D
Acq On : 22 May 2025 12:35
Operator : SY/MD
Sample : Q2074-01
Misc : 6.84g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-12

Quant Time: May 23 03:36:16 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



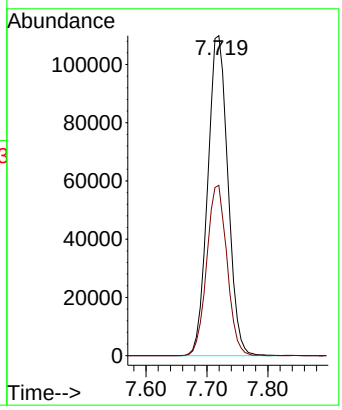


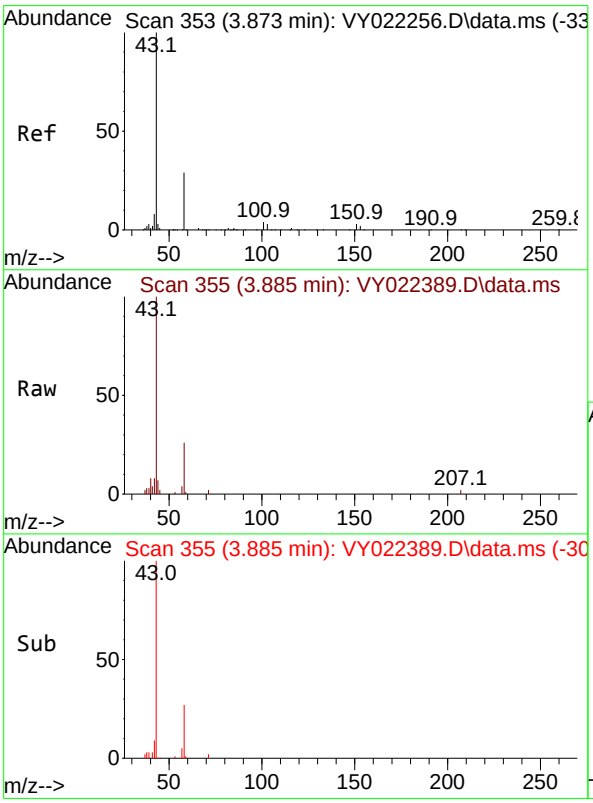
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.719 min Scan# 9
Delta R.T. 0.012 min
Lab File: VY022389.D
Acq: 22 May 2025 12:35

Instrument :
MSVOA_Y
ClientSampleId :
TP-12

Tgt Ion:168 Resp: 252950

Ion	Ratio	Lower	Upper
168	100		
99	53.3	44.2	66.4

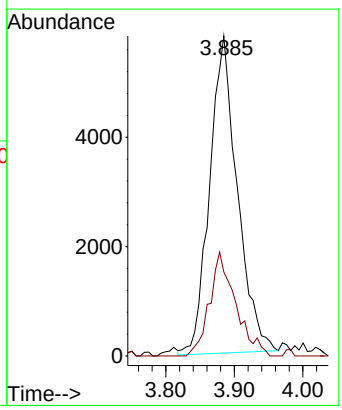


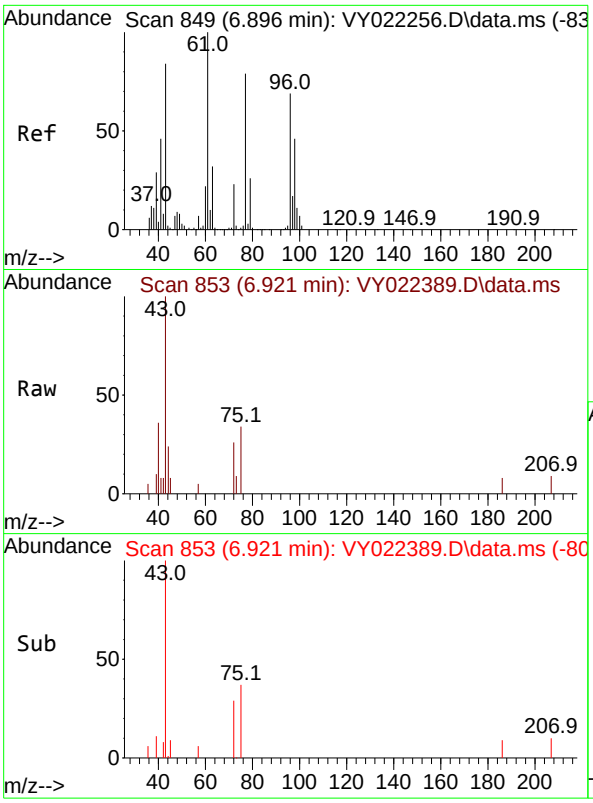


#16
Acetone
Concen: 31.439 ug/l
RT: 3.885 min Scan# 355
Delta R.T. 0.012 min
Lab File: VY022389.D
Acq: 22 May 2025 12:35

Tgt Ion: 43 Resp: 16297

Ion	Ratio	Lower	Upper
43	100		
58	26.7	23.6	35.4



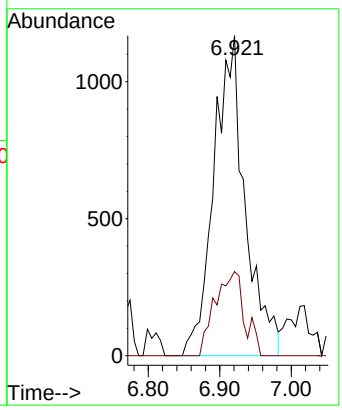


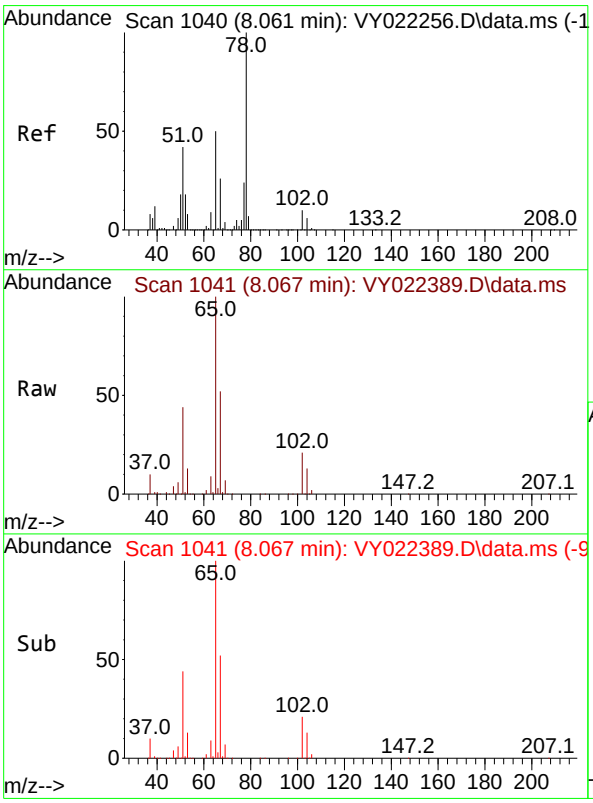
#25
2-Butanone
Concen: 4.095 ug/l
RT: 6.921 min Scan# 8
Delta R.T. 0.024 min
Lab File: VY022389.D
Acq: 22 May 2025 12:35

Instrument :
MSVOA_Y
ClientSampleId :
TP-12

Tgt Ion: 43 Resp: 3551

Ion	Ratio	Lower	Upper
43	100		
72	26.3	22.1	33.1

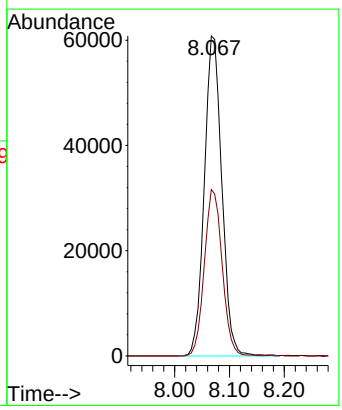


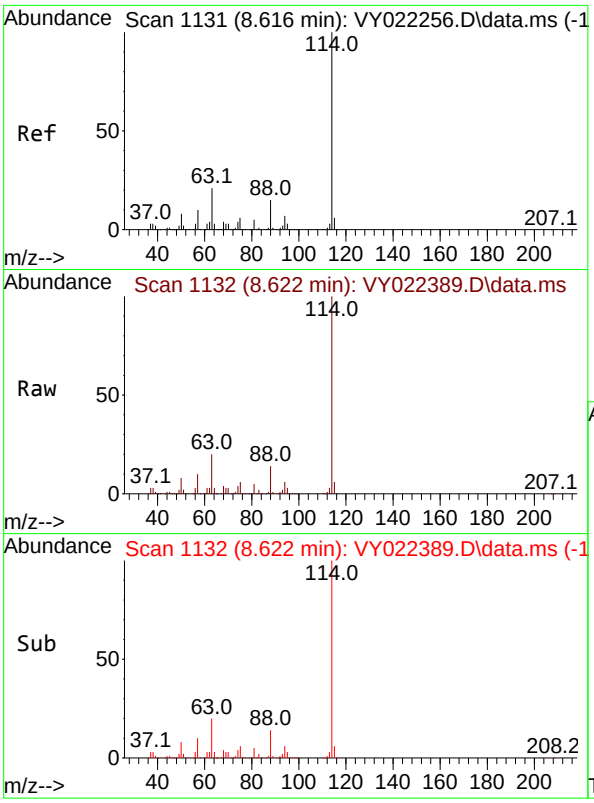


#33
1,2-Dichloroethane-d4
Concen: 48.712 ug/l
RT: 8.067 min Scan# 1041
Delta R.T. 0.006 min
Lab File: VY022389.D
Acq: 22 May 2025 12:35

Tgt Ion: 65 Resp: 134665

Ion	Ratio	Lower	Upper
65	100		
67	52.9	0.0	104.6



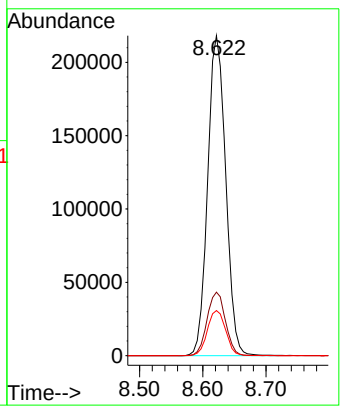


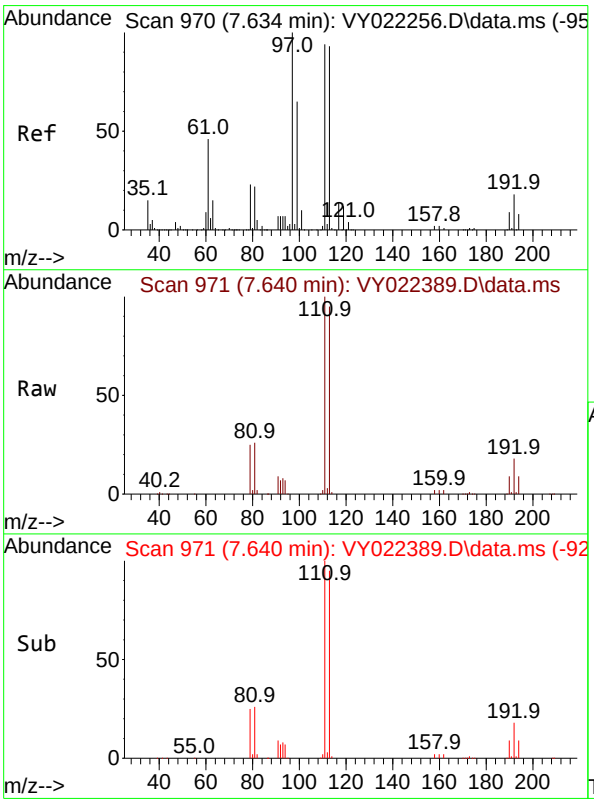
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.622 min Scan# 11
Delta R.T. 0.006 min
Lab File: VY022389.D
Acq: 22 May 2025 12:35

Instrument :
MSVOA_Y
ClientSampleId :
TP-12

Tgt Ion:114 Resp: 432513

Ion	Ratio	Lower	Upper
114	100		
63	19.8	0.0	41.0
88	14.1	0.0	29.4

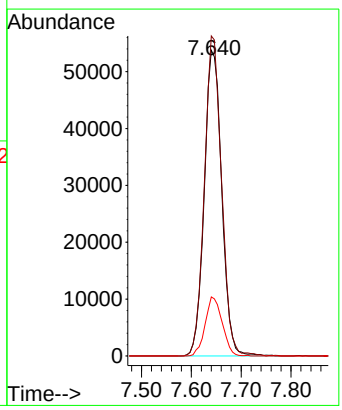


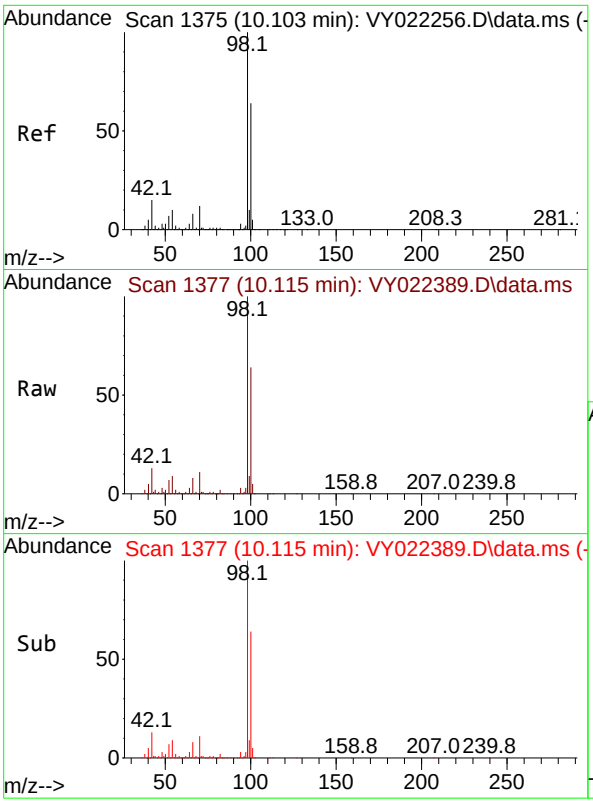


#35
Dibromofluoromethane
Concen: 50.720 ug/l
RT: 7.640 min Scan# 971
Delta R.T. 0.006 min
Lab File: VY022389.D
Acq: 22 May 2025 12:35

Tgt Ion:113 Resp: 130934

Ion	Ratio	Lower	Upper
113	100		
111	102.7	82.6	123.8
192	18.8	15.2	22.8



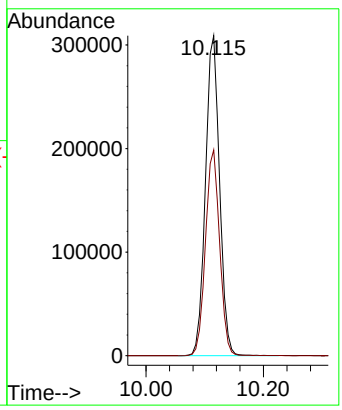


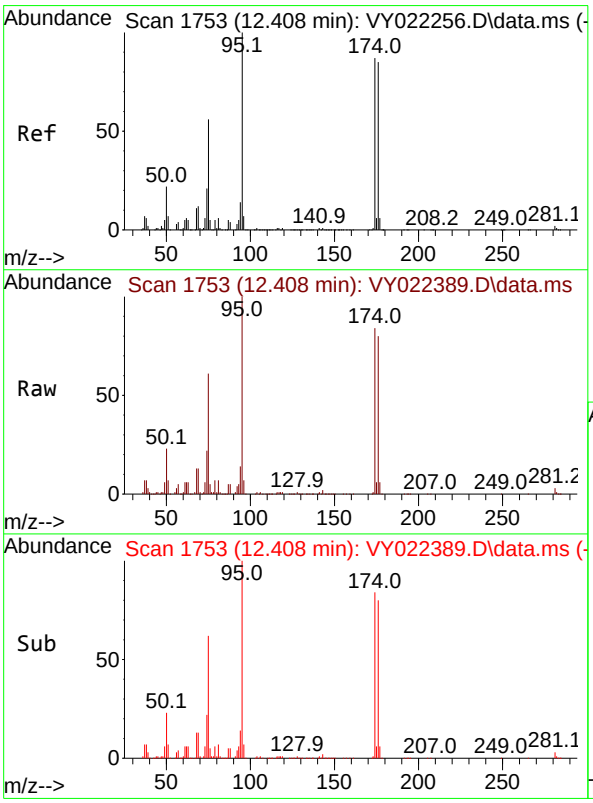
#50
Toluene-d8
Concen: 48.680 ug/l
RT: 10.115 min Scan# 1
Delta R.T. 0.012 min
Lab File: VY022389.D
Acq: 22 May 2025 12:35

Instrument :
MSVOA_Y
ClientSampleId :
TP-12

Tgt Ion: 98 Resp: 514682

Ion	Ratio	Lower	Upper
98	100		
100	64.6	51.8	77.8

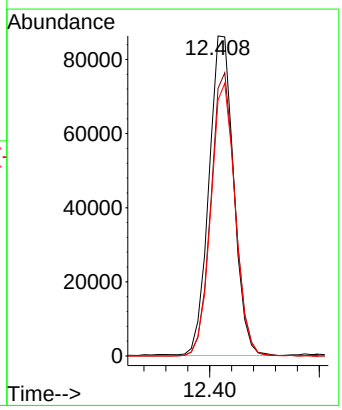




#62
4-Bromofluorobenzene
Concen: 40.285 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. -0.000 min
Lab File: VY022389.D
Acq: 22 May 2025 12:35

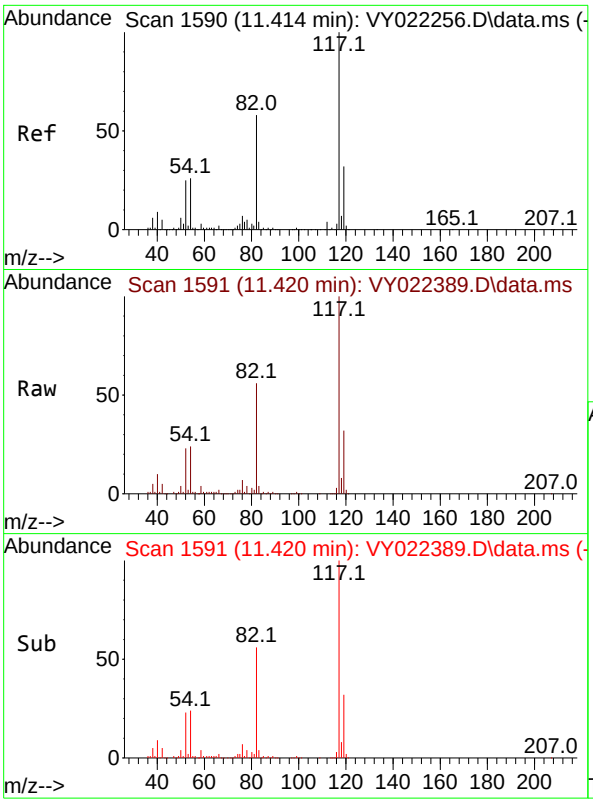
Tgt Ion: 95 Resp: 135002

Ion	Ratio	Lower	Upper
95	100		
174	86.7	0.0	166.8
176	83.8	0.0	160.8



5

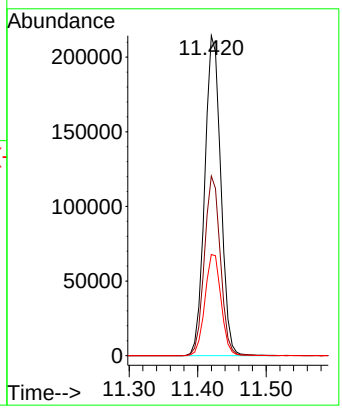
Instrument :
MSVOA_Y
ClientSampleId :
TP-12

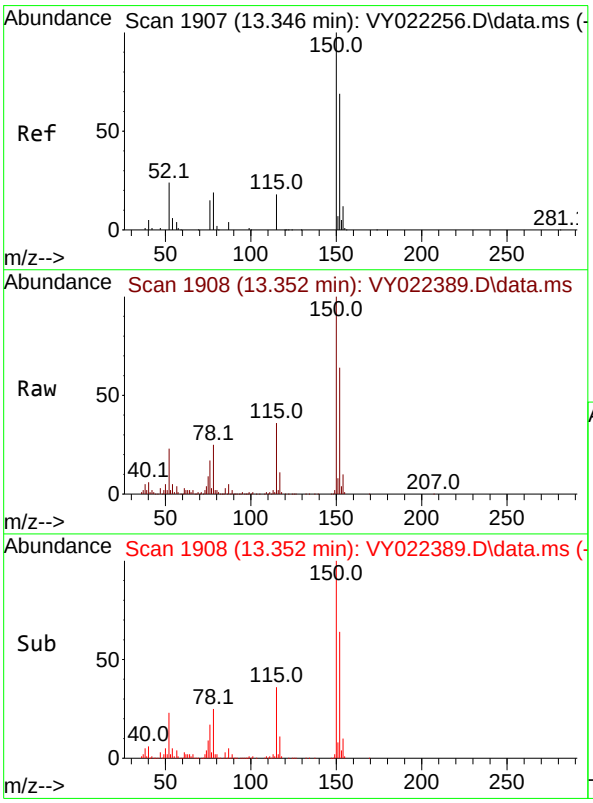


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022389.D
Acq: 22 May 2025 12:35

Tgt Ion:117 Resp: 349129

Ion	Ratio	Lower	Upper
117	100		
82	56.2	46.6	70.0
119	31.6	25.8	38.6

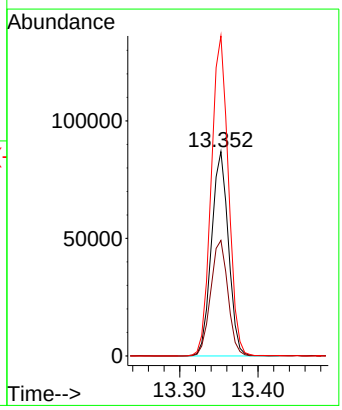




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.352 min Scan# 1908
Delta R.T. 0.006 min
Lab File: VY022389.D
Acq: 22 May 2025 12:35

Tgt Ion:152 Resp: 130898

Ion	Ratio	Lower	Upper
152	100		
115	57.4	29.4	88.2
150	158.1	0.0	353.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052225\
Data File : VY022389.D
Acq On : 22 May 2025 12:35
Operator : SY/MD
Sample : Q2074-01
Misc : 6.84g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-12

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: VY022389.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.184	70	76	78	rBV3	8076	14949	1.07%	0.191%
2	3.879	344	354	367	rBV2	9207	28128	2.01%	0.360%
3	4.628	467	477	486	rBV3	14642	44818	3.21%	0.573%
4	7.640	961	971	977	rBV	188307	447663	32.02%	5.728%
5	7.719	977	984	995	rVB	320978	747358	53.46%	9.562%
6	8.073	1032	1042	1054	rBV	190004	407115	29.12%	5.209%
7	8.622	1122	1132	1144	rBV	509438	1016409	72.70%	13.004%
8	10.115	1367	1377	1385	rBV	829009	1398047	100.00%	17.887%
9	11.420	1584	1591	1603	rBV	695226	1133147	81.05%	14.498%
10	12.414	1747	1754	1762	rBV	489369	781250	55.88%	9.996%
11	12.572	1776	1780	1787	rVB3	13781	23530	1.68%	0.301%
12	12.737	1800	1807	1814	rBV9	11632	30396	2.17%	0.389%
13	12.968	1841	1845	1853	rVB4	15847	24464	1.75%	0.313%
14	13.352	1901	1908	1915	rVB	542540	856977	61.30%	10.964%
15	13.487	1926	1930	1935	rVB4	13775	21428	1.53%	0.274%
16	13.670	1954	1960	1965	rBV5	33907	63805	4.56%	0.816%
17	13.889	1991	1996	2001	rVB2	133753	215421	15.41%	2.756%
18	14.066	2019	2025	2031	rVB6	16770	43513	3.11%	0.557%
19	14.127	2031	2035	2039	rBV5	12852	26399	1.89%	0.338%
20	14.182	2039	2044	2051	rVV8	22709	63585	4.55%	0.814%
21	14.310	2060	2065	2067	rBV5	15464	24993	1.79%	0.320%
22	14.346	2067	2071	2074	rVV3	35166	53419	3.82%	0.683%
23	14.395	2075	2079	2087	rVB10	13597	27746	1.98%	0.355%
24	14.535	2099	2102	2106	rVB4	11632	14903	1.07%	0.191%
25	14.596	2106	2112	2117	rBV4	27532	59743	4.27%	0.764%
26	14.651	2118	2121	2127	rVB3	20374	30515	2.18%	0.390%
27	14.791	2142	2144	2149	rVB5	14723	19789	1.42%	0.253%
28	14.864	2153	2156	2159	rVB4	16423	20469	1.46%	0.262%
29	14.919	2159	2165	2168	rBV6	15743	32060	2.29%	0.410%
30	14.956	2169	2171	2176	rVB5	10156	16137	1.15%	0.206%
31	15.127	2193	2199	2204	rVB8	10522	20540	1.47%	0.263%
32	15.188	2205	2209	2216	rBV9	12149	20109	1.44%	0.257%
33	15.303	2225	2228	2232	rVB	20956	30913	2.21%	0.396%
34	15.511	2260	2262	2266	rVB5	13031	17697	1.27%	0.226%
35	15.925	2326	2330	2336	rVB8	9942	18516	1.32%	0.237%
36	16.358	2397	2401	2408	rVB9	8783	19985	1.43%	0.256%

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052225\
Data File : VY022389.D
Acq On : 22 May 2025 12:35
Operator : SY/MD
Sample : Q2074-01
Misc : 6.84g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-12

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

Sum of corrected areas: 7815936

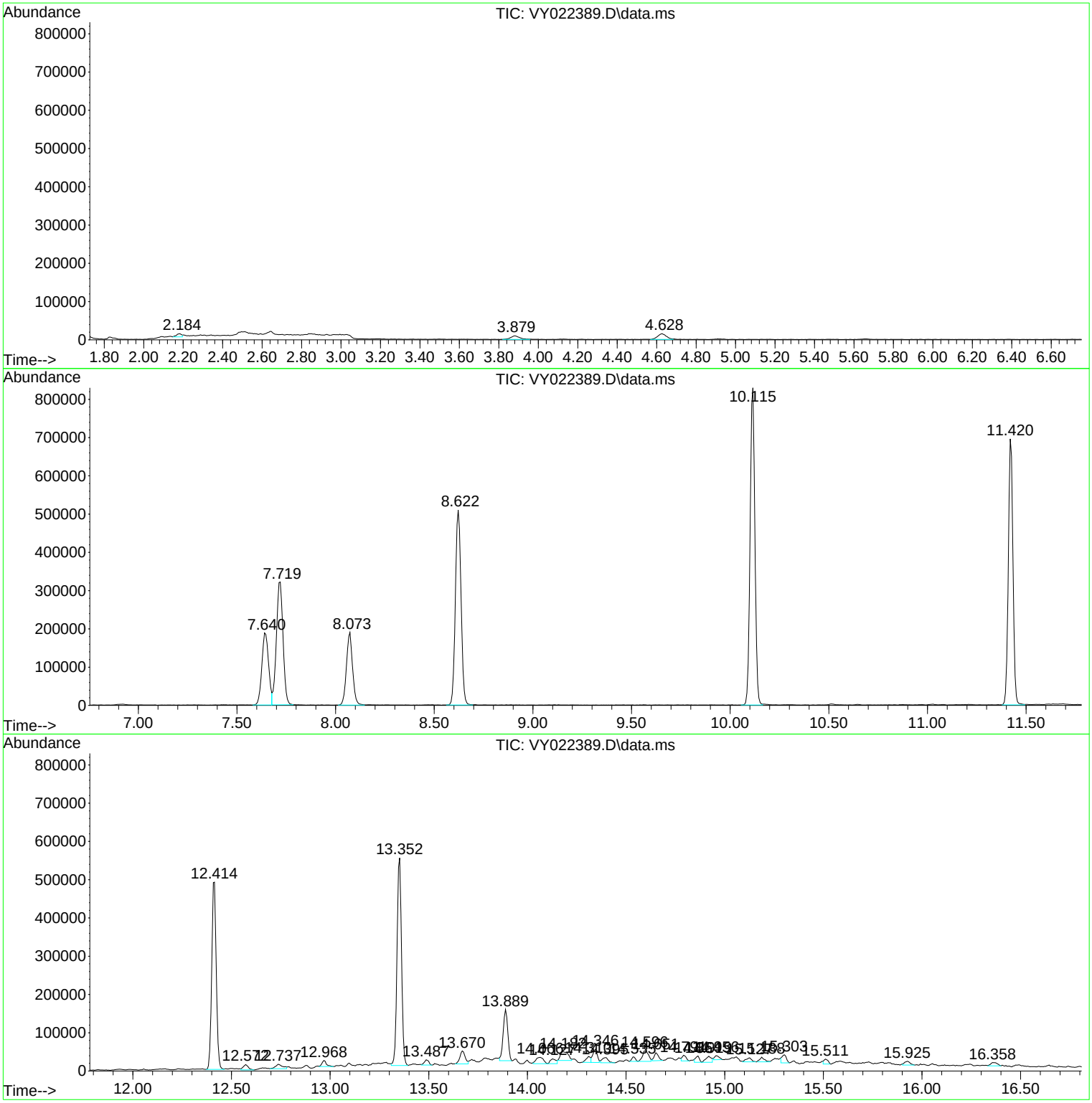
Sample Results: **VY022389.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052225\
Data File : VY022389.D
Acq On : 22 May 2025 12:35
Operator : SY/MD
Sample : Q2074-01
Misc : 6.84g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-12

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 : VY022389.D
Acq On : 22 May 2025 12:35
Operator : SY/MD
Sample : Q2074-01
Misc : 6.84g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-12

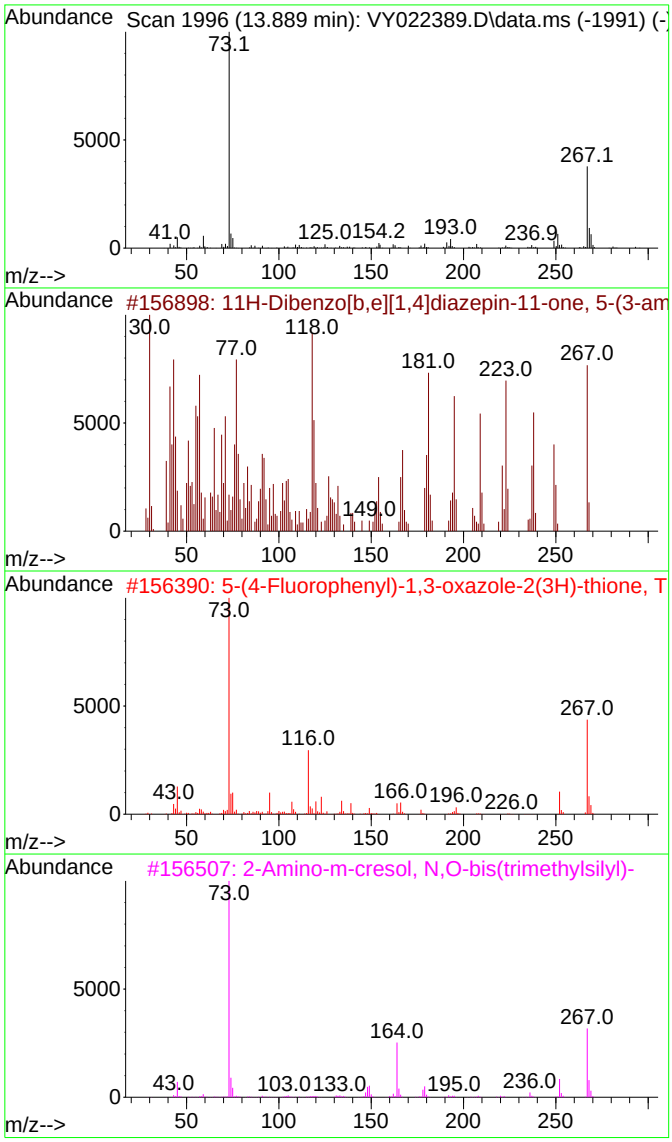
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260

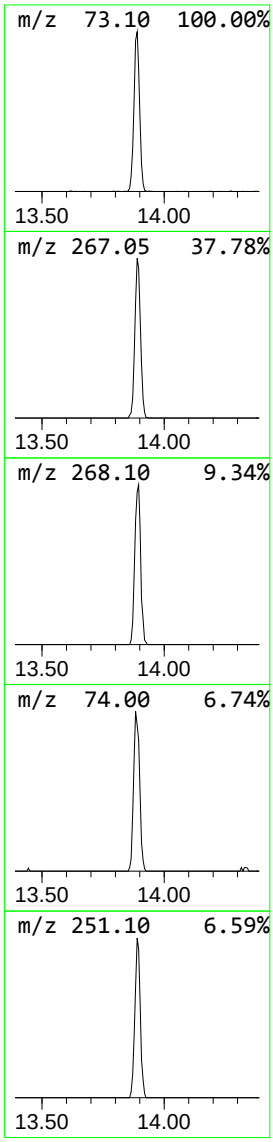
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 1 11H-Dibenzo[b,e][1,4]diazep... Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.889	12.57 ug/l	215421	1,4-Dichlorobenzene-d4	13.352

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Dibenzo[b,e][1,4]diazepin-11...	267	C16H17N3O	013450-73-2	95
2	5-(4-Fluorophenyl)-1,3-oxazole-2...	267	C12H14FNOSSi	1000497-07-6	53
3	2-Amino-m-cresol, N,O-bis(trimet...	267	C13H25NOSi2	1000449-77-1	53
4	Benzeneethanamine, N-methyl-.bet...	311	C15H29NO2Si2	029522-18-7	50
5	Benzeneethanamine, N-[(pentafluo...	475	C21H26F5NO2Si2	055429-85-1	42





Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052225\
Data File : VY022389.D
Acq On : 22 May 2025 12:35
Operator : SY/MD
Sample : Q2074-01
Misc : 6.84g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-12

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
11H-Dibenzo[b,e...	13.889	12.6	ug/l	215421	4	13.352	856977	50.0

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052225\
Data File : VY022390.D
Acq On : 22 May 2025 12:58
Operator : SY/MD
Sample : Q2074-02
Misc : 7.18g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-7

Quant Time: May 23 03:36:38 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	245848	50.000	ug/l	0.01
34) 1,4-Difluorobenzene	8.622	114	434620	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.426	117	349949	50.000	ug/l	0.01
72) 1,4-Dichlorobenzene-d4	13.353	152	127586	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.073	65	127834	47.577	ug/l	0.01
Spiked Amount 50.000	Range 50 - 163		Recovery = 95.160%			
35) Dibromofluoromethane	7.646	113	129846	50.055	ug/l	0.01
Spiked Amount 50.000	Range 54 - 147		Recovery = 100.100%			
50) Toluene-d8	10.115	98	515620	48.533	ug/l	0.01
Spiked Amount 50.000	Range 58 - 134		Recovery = 97.060%			
62) 4-Bromofluorobenzene	12.414	95	133711	39.706	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 79.420%			

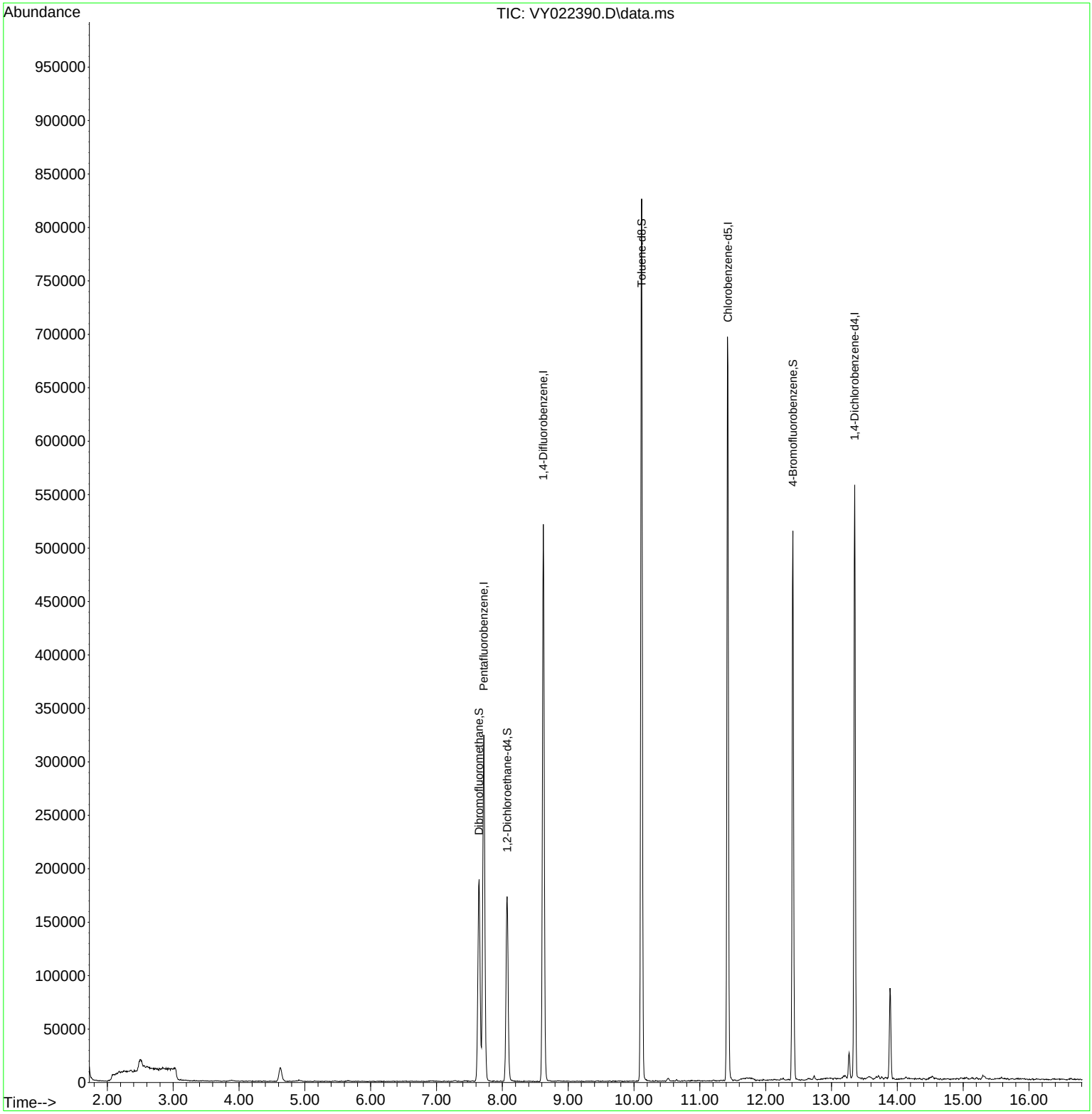
Target Compounds Qvalue

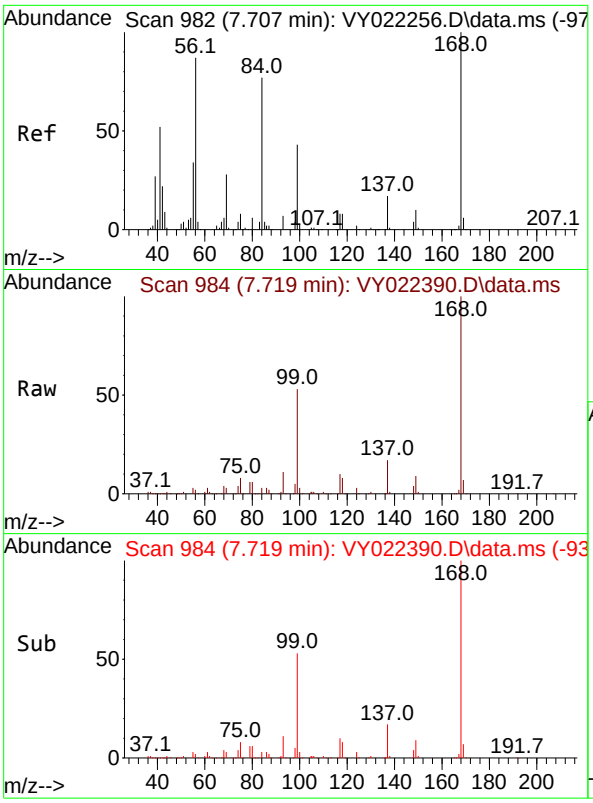
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052225\
Data File : VY022390.D
Acq On : 22 May 2025 12:58
Operator : SY/MD
Sample : Q2074-02
Misc : 7.18g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-7

Quant Time: May 23 03:36:38 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



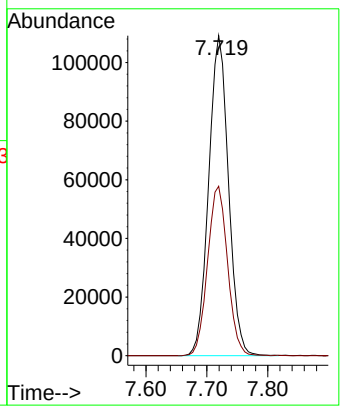


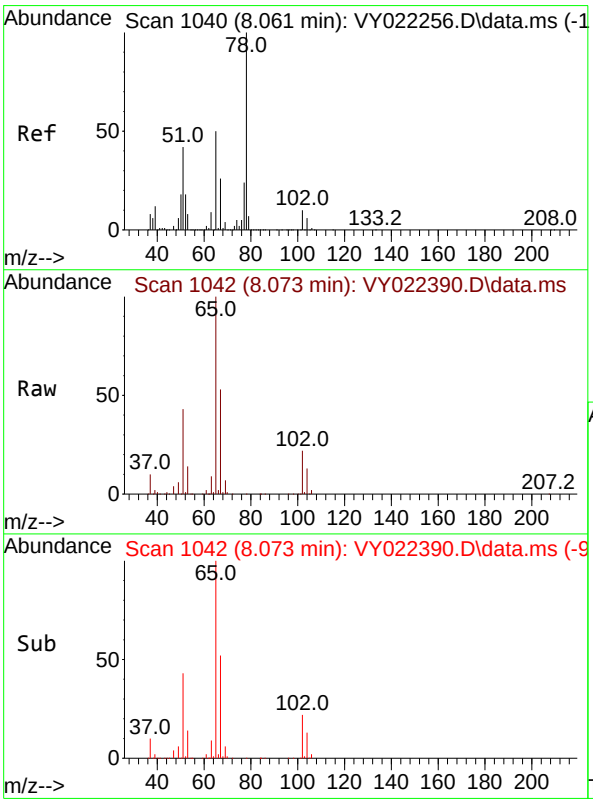
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.719 min Scan# 9
Delta R.T. 0.012 min
Lab File: VY022390.D
Acq: 22 May 2025 12:58

Instrument :
MSVOA_Y
ClientSampleId :
TP-7

Tgt Ion:168 Resp: 245848

Ion	Ratio	Lower	Upper
168	100		
99	52.9	44.2	66.4

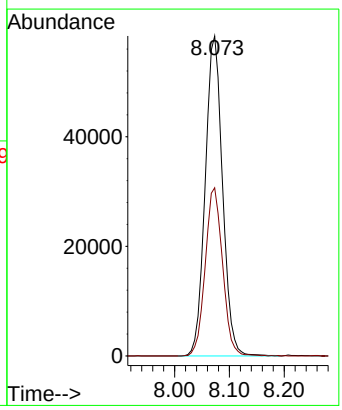


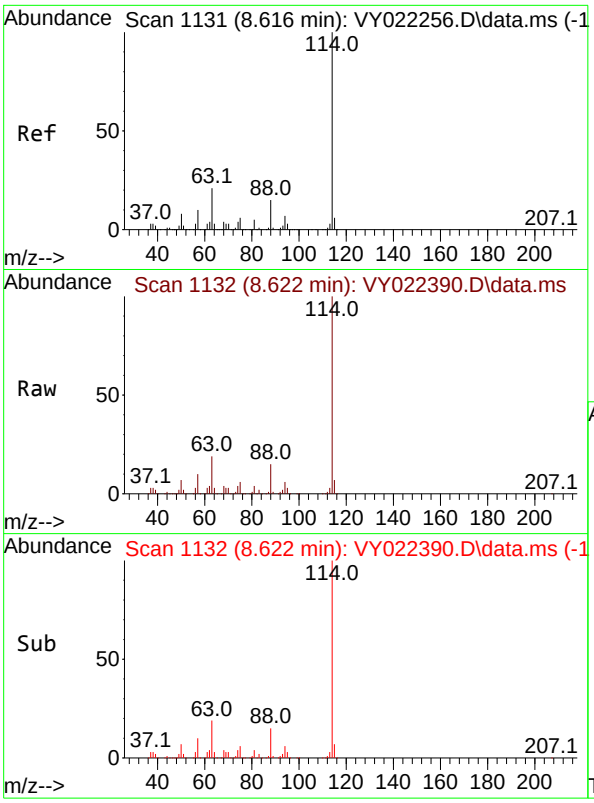


#33
1,2-Dichloroethane-d4
Concen: 47.577 ug/l
RT: 8.073 min Scan# 1042
Delta R.T. 0.012 min
Lab File: VY022390.D
Acq: 22 May 2025 12:58

Tgt Ion: 65 Resp: 127834

Ion	Ratio	Lower	Upper
65	100		
67	52.7	0.0	104.6



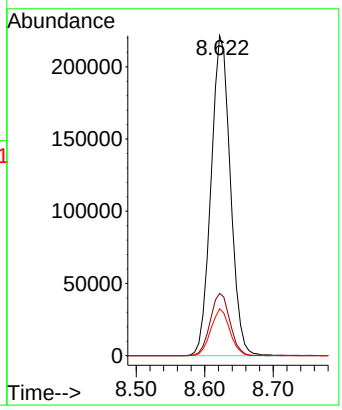


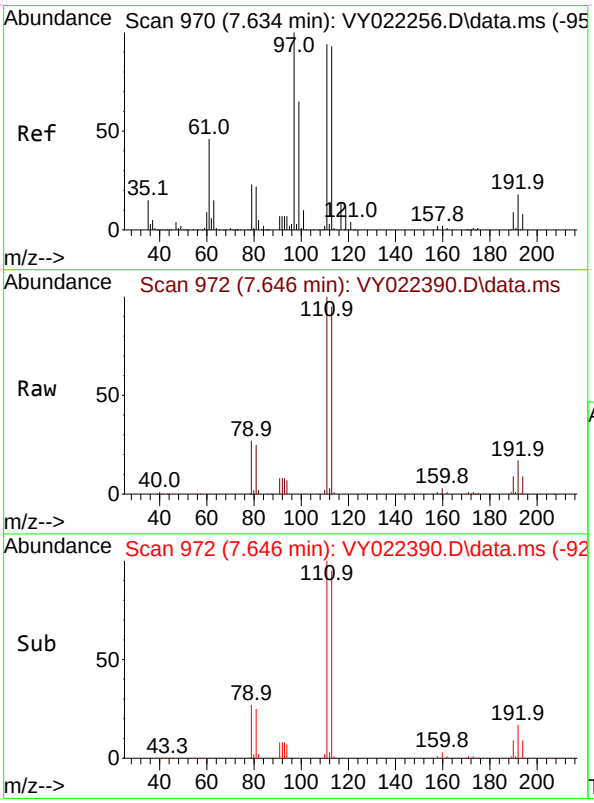
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.622 min Scan# 11
Delta R.T. 0.006 min
Lab File: VY022390.D
Acq: 22 May 2025 12:58

Instrument :
MSVOA_Y
ClientSampleId :
TP-7

Tgt Ion:114 Resp: 434620

Ion	Ratio	Lower	Upper
114	100		
63	19.4	0.0	41.0
88	14.6	0.0	29.4

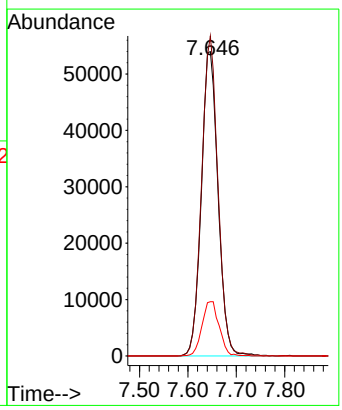


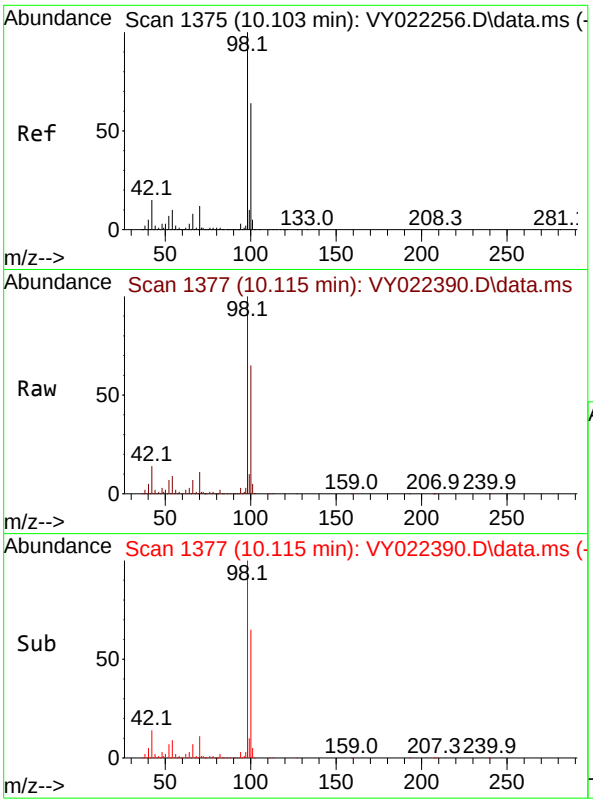


#35
Dibromofluoromethane
Concen: 50.055 ug/l
RT: 7.646 min Scan# 972
Delta R.T. 0.012 min
Lab File: VY022390.D
Acq: 22 May 2025 12:58

Tgt Ion:113 Resp: 129846

Ion	Ratio	Lower	Upper
113	100		
111	102.5	82.6	123.8
192	18.3	15.2	22.8



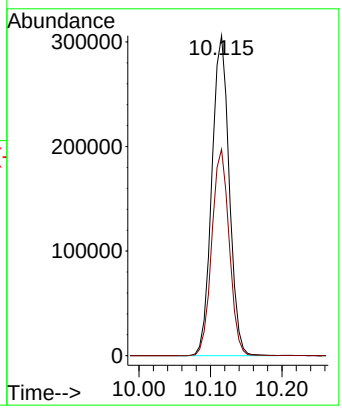


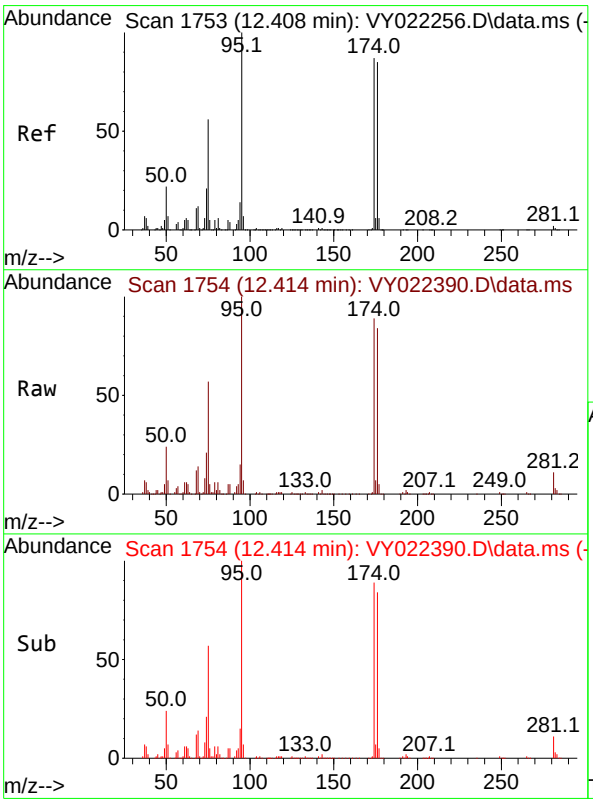
#50
Toluene-d8
Concen: 48.533 ug/l
RT: 10.115 min Scan# 1
Delta R.T. 0.012 min
Lab File: VY022390.D
Acq: 22 May 2025 12:58

Instrument :
MSVOA_Y
ClientSampleId :
TP-7

Tgt Ion: 98 Resp: 515620

Ion	Ratio	Lower	Upper
98	100		
100	64.7	51.8	77.8

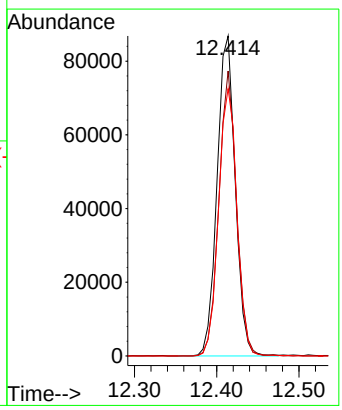


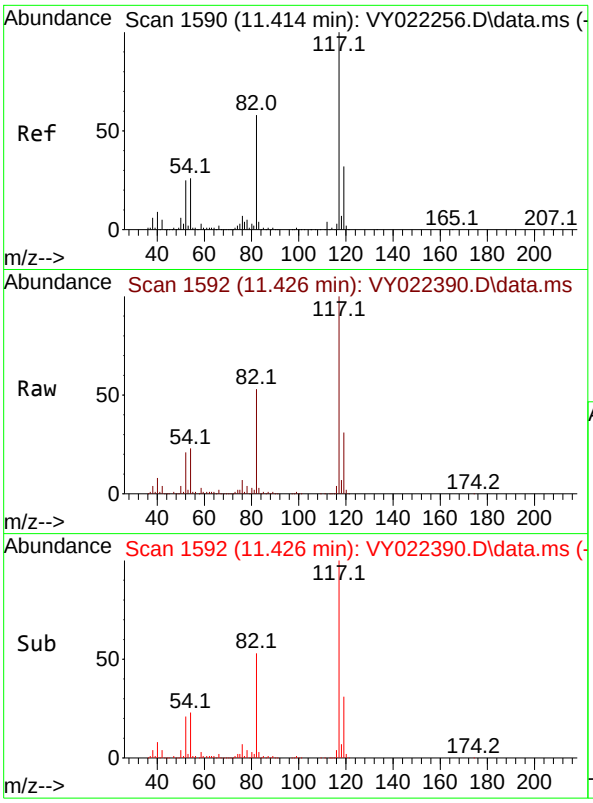


#62
4-Bromofluorobenzene
Concen: 39.706 ug/l
RT: 12.414 min Scan# 1754
Delta R.T. 0.006 min
Lab File: VY022390.D
Acq: 22 May 2025 12:58

Tgt Ion: 95 Resp: 133711

Ion	Ratio	Lower	Upper
95	100		
174	86.2	0.0	166.8
176	84.4	0.0	160.8



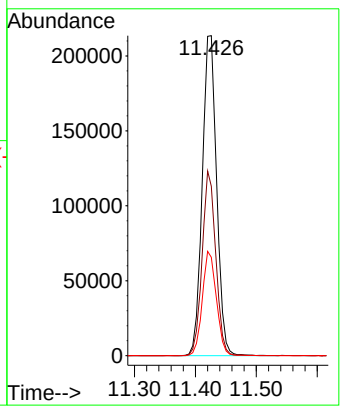


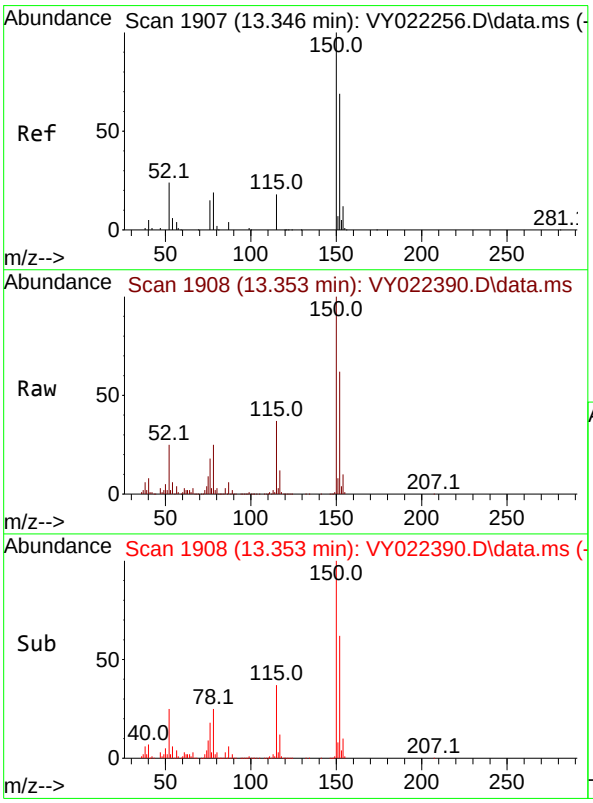
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.426 min Scan# 1
Delta R.T. 0.012 min
Lab File: VY022390.D
Acq: 22 May 2025 12:58

Instrument :
MSVOA_Y
ClientSampleId :
TP-7

Tgt Ion:117 Resp: 349949

Ion	Ratio	Lower	Upper
117	100		
82	53.0	46.6	70.0
119	30.8	25.8	38.6

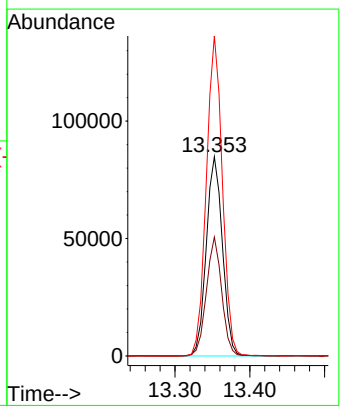




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.353 min Scan# 1908
Delta R.T. 0.006 min
Lab File: VY022390.D
Acq: 22 May 2025 12:58

Tgt Ion:152 Resp: 127586

Ion	Ratio	Lower	Upper
152	100		
115	56.8	29.4	88.2
150	159.0	0.0	353.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052225\
Data File : VY022390.D
Acq On : 22 May 2025 12:58
Operator : SY/MD
Sample : Q2074-02
Misc : 7.18g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-7

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: VY022390.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.099	50	62	65	rBV6	5970	20626	1.47%	0.293%
2	2.507	120	129	135	rBV3	10684	39270	2.80%	0.557%
3	4.629	467	477	488	rBV3	13008	41388	2.95%	0.587%
4	7.646	961	972	978	rBV2	188844	451859	32.25%	6.412%
5	7.719	978	984	998	rVB	323889	721020	51.46%	10.232%
6	8.073	1033	1042	1052	rBV	172761	383969	27.40%	5.449%
7	8.622	1123	1132	1143	rBV	521415	1017950	72.65%	14.446%
8	10.115	1369	1377	1393	rBV	825468	1401187	100.00%	19.885%
9	11.420	1584	1591	1605	rVB	696115	1135668	81.05%	16.117%
10	12.414	1747	1754	1762	rBV2	513786	826172	58.96%	11.724%
11	13.267	1889	1894	1899	rBV2	23564	35333	2.52%	0.501%
12	13.353	1899	1908	1920	rVB	554889	834154	59.53%	11.838%
13	13.889	1989	1996	2002	rVB2	84889	137999	9.85%	1.958%

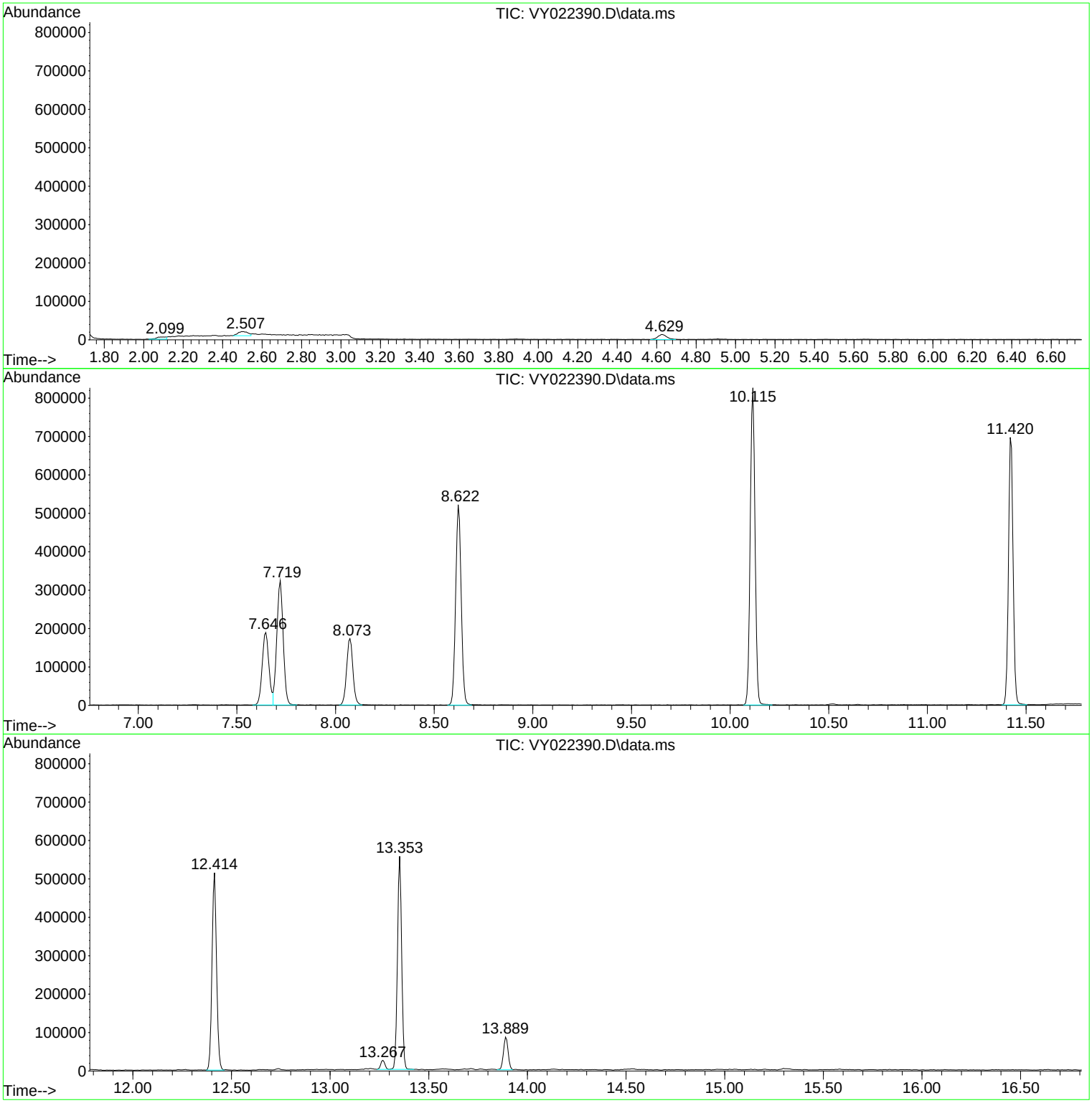
Sum of corrected areas: 7046595

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052225\
Data File : VY022390.D
Acq On : 22 May 2025 12:58
Operator : SY/MD
Sample : Q2074-02
Misc : 7.18g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-7

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 : VY022390.D
Acq On : 22 May 2025 12:58
Operator : SY/MD
Sample : Q2074-02
Misc : 7.18g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-7

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 : VY022390.D
Acq On : 22 May 2025 12:58
Operator : SY/MD
Sample : Q2074-02
Misc : 7.18g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-7

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 : VY022391.D
Acq On : 22 May 2025 13:22
Operator : SY/MD
Sample : Q2074-03
Misc : 6.40g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-15

Quant Time: May 23 03:37:00 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	7.720	168	266999	50.000	ug/l	0.01
34) 1,4-Difluorobenzene	8.622	114	463257	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.426	117	360854	50.000	ug/l	0.01
72) 1,4-Dichlorobenzene-d4	13.353	152	125655	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.073	65	132004	45.237	ug/l	0.01
Spiked Amount 50.000	Range 50 - 163		Recovery =	90.480%		
35) Dibromofluoromethane	7.646	113	136878	49.504	ug/l	0.01
Spiked Amount 50.000	Range 54 - 147		Recovery =	99.000%		
50) Toluene-d8	10.115	98	545447	48.166	ug/l	0.01
Spiked Amount 50.000	Range 58 - 134		Recovery =	96.340%		
62) 4-Bromofluorobenzene	12.414	95	133077	37.075	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery =	74.160%		

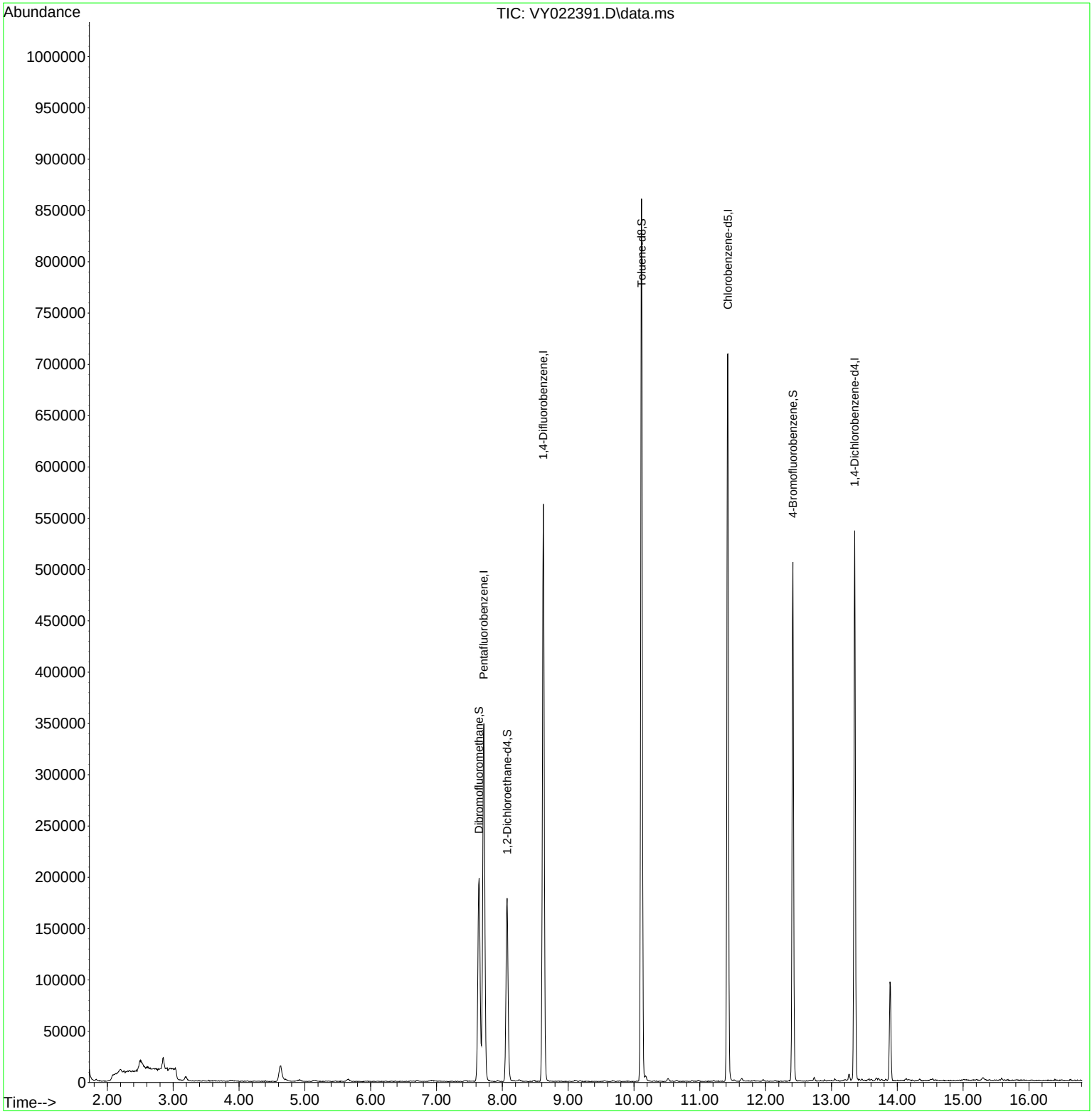
Target Compounds Qvalue

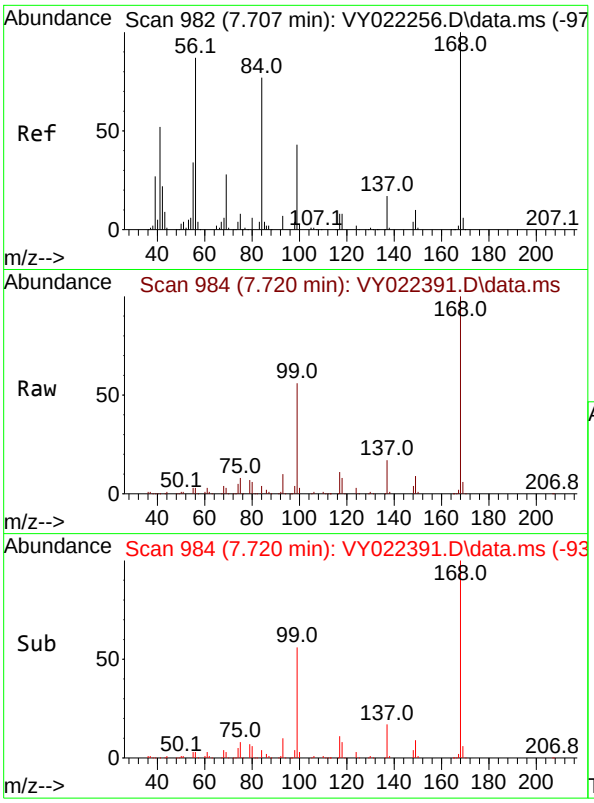
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052225\
Data File : VY022391.D
Acq On : 22 May 2025 13:22
Operator : SY/MD
Sample : Q2074-03
Misc : 6.40g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-15

Quant Time: May 23 03:37:00 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



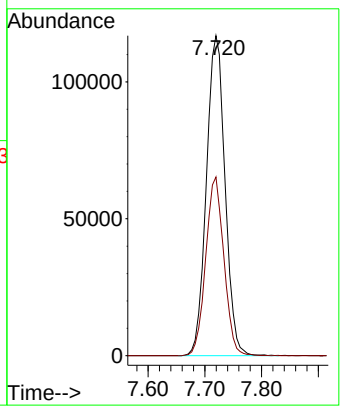


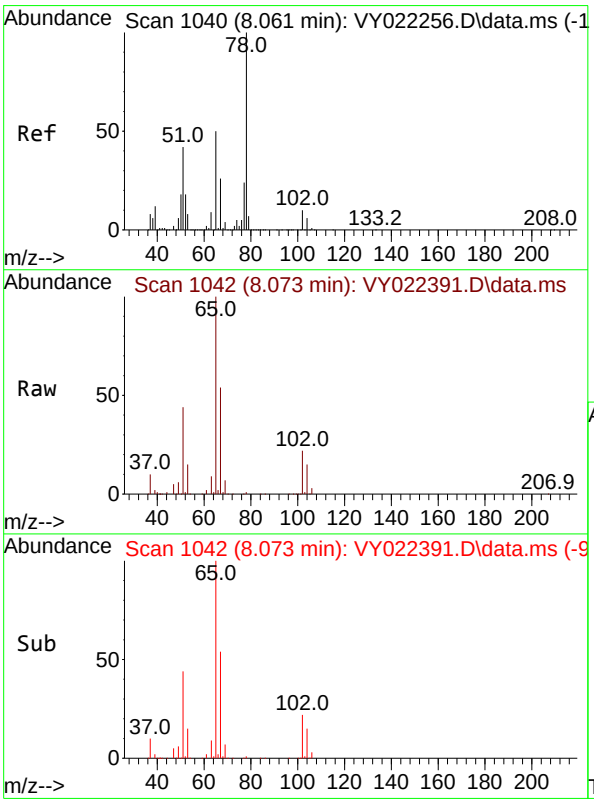
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.720 min Scan# 9
Delta R.T. 0.013 min
Lab File: VY022391.D
Acq: 22 May 2025 13:22

Instrument :
MSVOA_Y
ClientSampleId :
TP-15

Tgt Ion:168 Resp: 266999

Ion	Ratio	Lower	Upper
168	100		
99	55.8	44.2	66.4

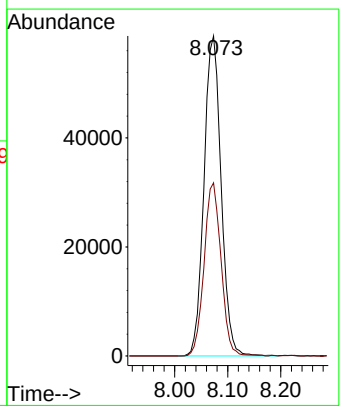


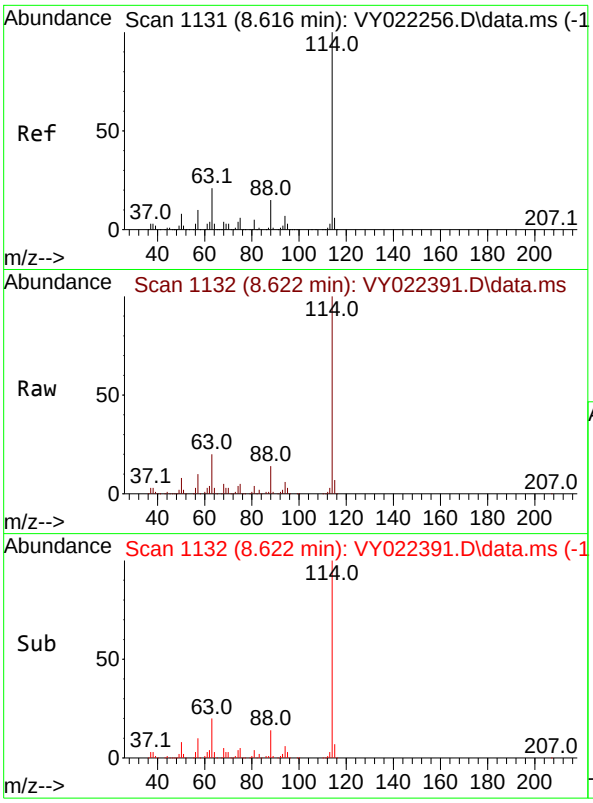


#33
1,2-Dichloroethane-d4
Concen: 45.237 ug/l
RT: 8.073 min Scan# 1042
Delta R.T. 0.012 min
Lab File: VY022391.D
Acq: 22 May 2025 13:22

Tgt Ion: 65 Resp: 132004

Ion	Ratio	Lower	Upper
65	100		
67	53.4	0.0	104.6



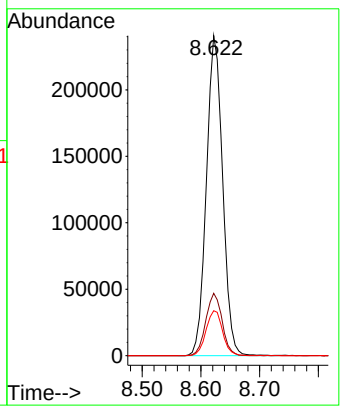


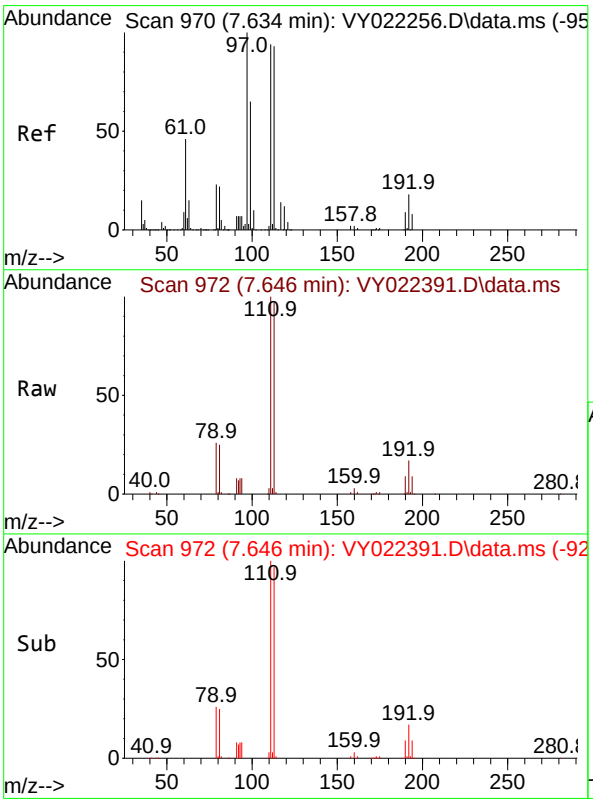
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.622 min Scan# 11
Delta R.T. 0.006 min
Lab File: VY022391.D
Acq: 22 May 2025 13:22

Instrument :
MSVOA_Y
ClientSampleId :
TP-15

Tgt Ion:114 Resp: 463257

Ion	Ratio	Lower	Upper
114	100		
63	19.5	0.0	41.0
88	14.0	0.0	29.4

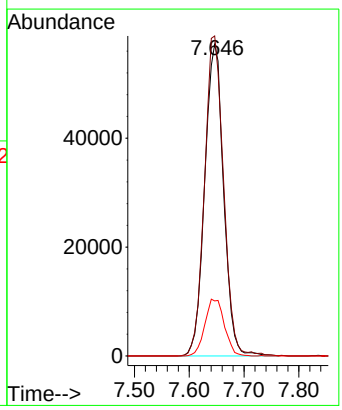


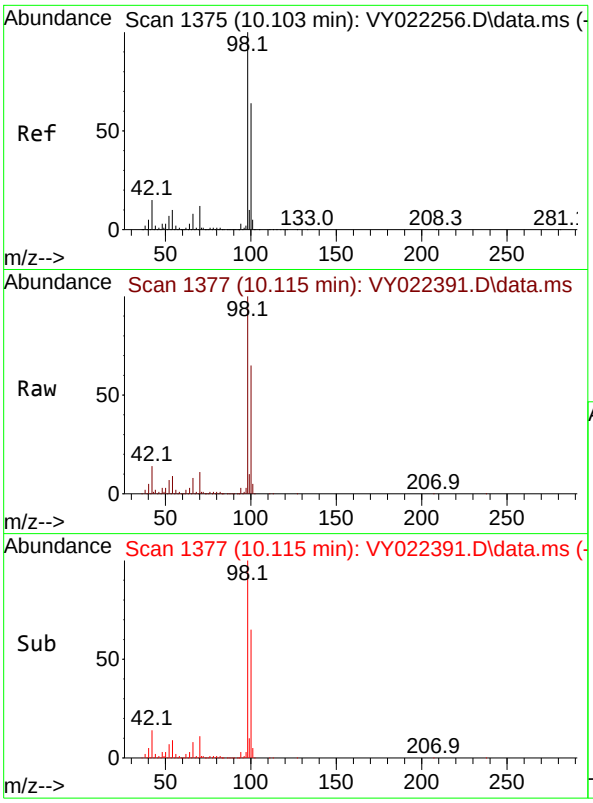


#35
Dibromofluoromethane
Concen: 49.504 ug/l
RT: 7.646 min Scan# 972
Delta R.T. 0.012 min
Lab File: VY022391.D
Acq: 22 May 2025 13:22

Tgt Ion:113 Resp: 136878

Ion	Ratio	Lower	Upper
113	100		
111	103.7	82.6	123.8
192	18.8	15.2	22.8



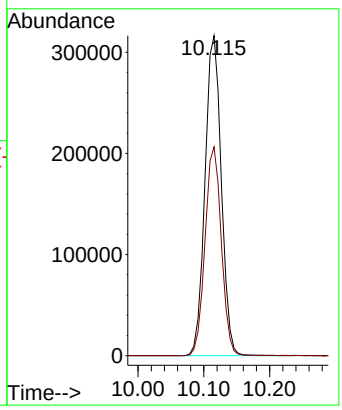


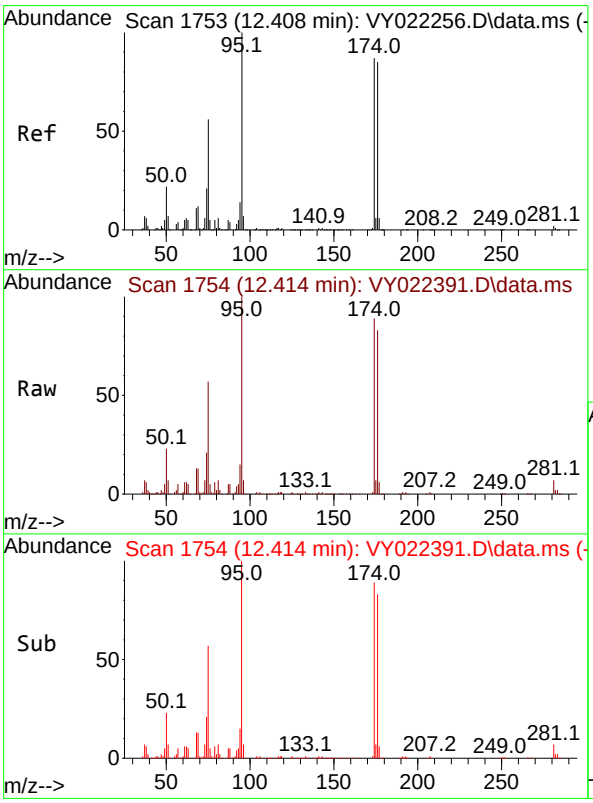
#50
Toluene-d8
Concen: 48.166 ug/l
RT: 10.115 min Scan# 1
Delta R.T. 0.012 min
Lab File: VY022391.D
Acq: 22 May 2025 13:22

Instrument :
MSVOA_Y
ClientSampleId :
TP-15

Tgt Ion: 98 Resp: 545447

Ion	Ratio	Lower	Upper
98	100		
100	65.1	51.8	77.8

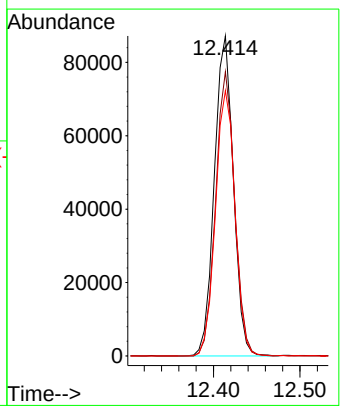


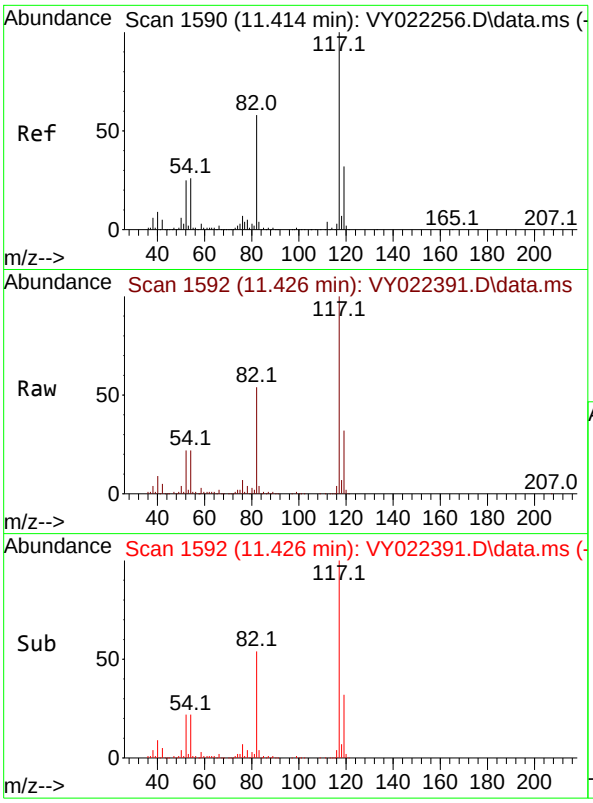


#62
4-Bromofluorobenzene
Concen: 37.075 ug/l
RT: 12.414 min Scan# 1754
Delta R.T. 0.006 min
Lab File: VY022391.D
Acq: 22 May 2025 13:22

Tgt Ion: 95 Resp: 133077

Ion	Ratio	Lower	Upper
95	100		
174	89.2	0.0	166.8
176	85.3	0.0	160.8



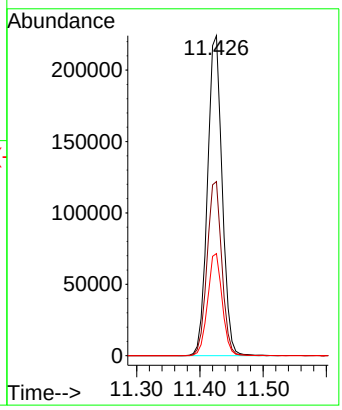


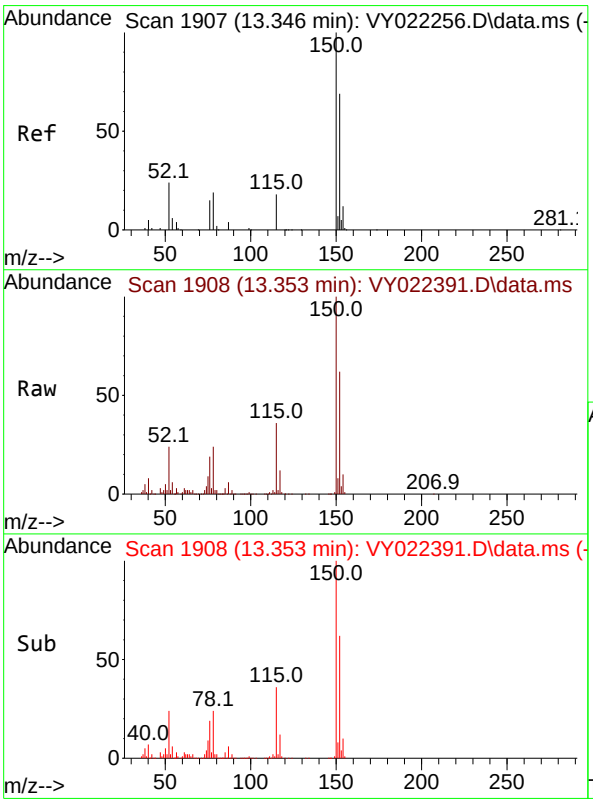
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.426 min Scan# 1
Delta R.T. 0.012 min
Lab File: VY022391.D
Acq: 22 May 2025 13:22

Instrument :
MSVOA_Y
ClientSampleId :
TP-15

Tgt Ion:117 Resp: 360854

Ion	Ratio	Lower	Upper
117	100		
82	54.4	46.6	70.0
119	31.9	25.8	38.6

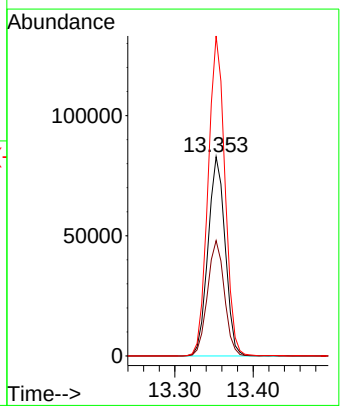




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.353 min Scan# 1908
Delta R.T. 0.006 min
Lab File: VY022391.D
Acq: 22 May 2025 13:22

Tgt Ion:152 Resp: 125655

Ion	Ratio	Lower	Upper
152	100		
115	57.2	29.4	88.2
150	158.0	0.0	353.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052225\
Data File : VY022391.D
Acq On : 22 May 2025 13:22
Operator : SY/MD
Sample : Q2074-03
Misc : 6.40g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-15

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: VY022391.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.123	53	66	68	rBV8	6664	25660	1.73%	0.351%
2	2.507	119	129	141	rBV6	11117	50404	3.40%	0.689%
3	2.848	180	185	191	rVB4	10782	19363	1.31%	0.265%
4	4.635	466	478	488	rBV3	15388	53534	3.61%	0.731%
5	7.646	960	972	978	rBV	198210	480934	32.45%	6.571%
6	7.720	978	984	997	rVB	348429	785755	53.02%	10.735%
7	8.073	1031	1042	1052	rBV	178728	400254	27.01%	5.468%
8	8.622	1124	1132	1144	rBV	562668	1081995	73.00%	14.782%
9	10.115	1368	1377	1385	rBV	860408	1482105	100.00%	20.249%
10	11.426	1581	1592	1605	rBV	709330	1168032	78.81%	15.958%
11	12.414	1746	1754	1763	rBV	505972	801221	54.06%	10.946%
12	13.353	1898	1908	1917	rVV	535760	814991	54.99%	11.134%
13	13.889	1989	1996	2003	rVB	96613	155272	10.48%	2.121%

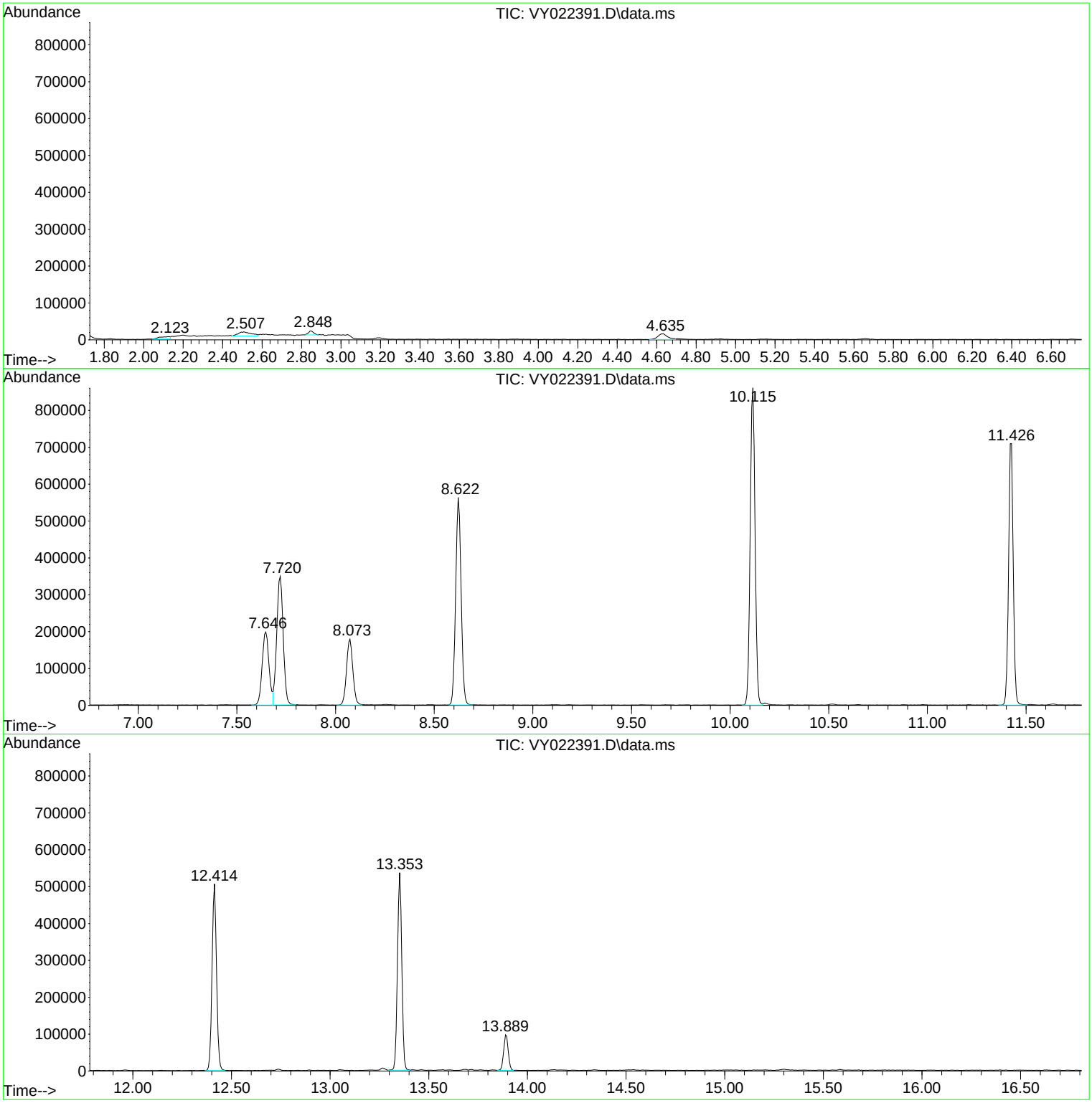
Sum of corrected areas: 7319520

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052225\
Data File : VY022391.D
Acq On : 22 May 2025 13:22
Operator : SY/MD
Sample : Q2074-03
Misc : 6.40g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-15

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 : VY022391.D
Acq On : 22 May 2025 13:22
Operator : SY/MD
Sample : Q2074-03
Misc : 6.40g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-15

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 : VY022391.D
Acq On : 22 May 2025 13:22
Operator : SY/MD
Sample : Q2074-03
Misc : 6.40g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-15

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 : VY022392.D
Acq On : 22 May 2025 13:45
Operator : SY/MD
Sample : Q2074-04
Misc : 7.61g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-20

Quant Time: May 23 03:37:22 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

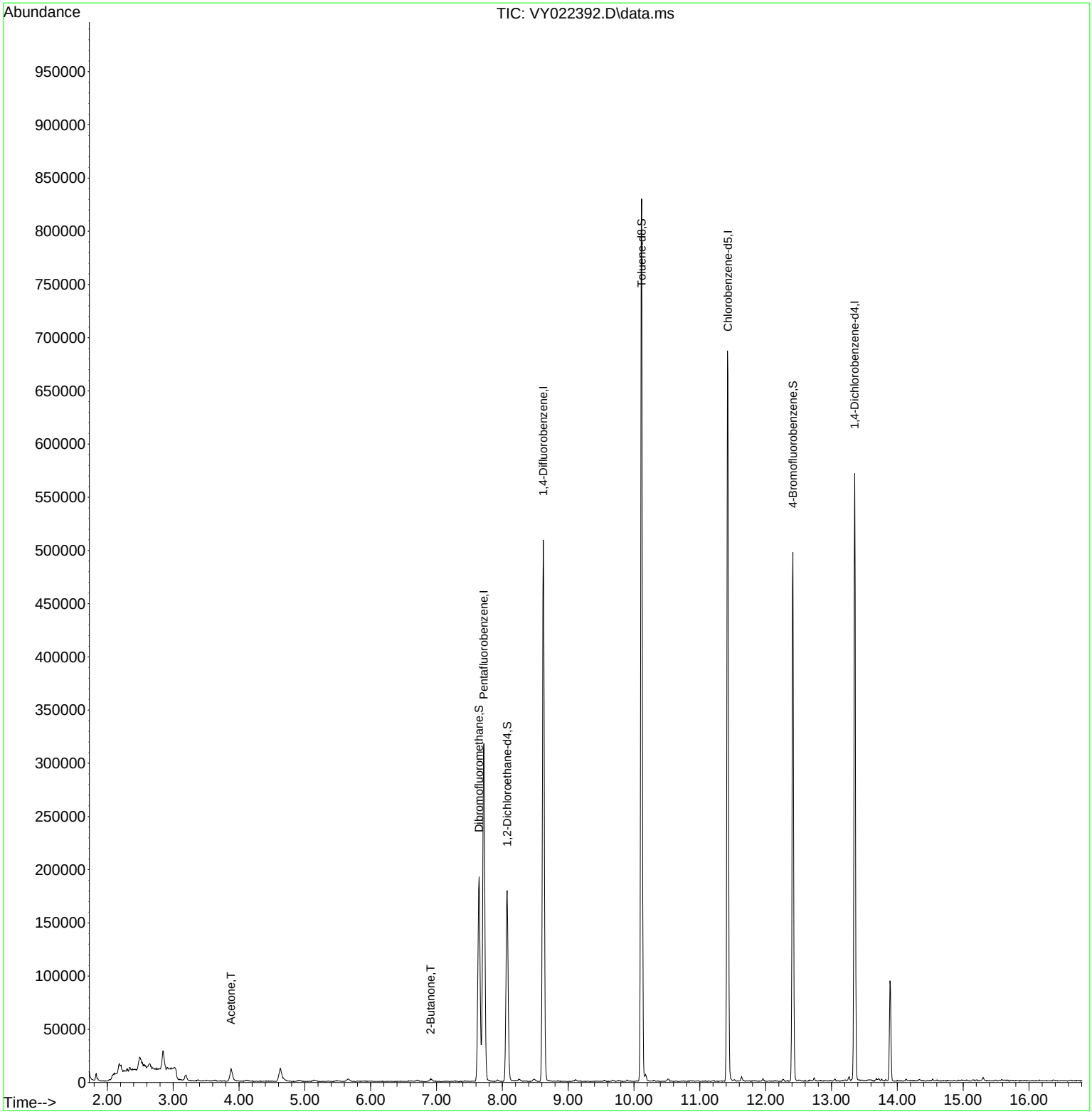
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.719	168	243454	50.000	ug/l	0.01
34) 1,4-Difluorobenzene	8.622	114	431875	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.426	117	349983	50.000	ug/l	0.01
72) 1,4-Dichlorobenzene-d4	13.353	152	131238	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.073	65	132631	49.848	ug/l	0.01
Spiked Amount 50.000	Range 50 - 163		Recovery = 99.700%			
35) Dibromofluoromethane	7.646	113	130701	50.705	ug/l	0.01
Spiked Amount 50.000	Range 54 - 147		Recovery = 101.400%			
50) Toluene-d8	10.115	98	520772	49.329	ug/l	0.01
Spiked Amount 50.000	Range 58 - 134		Recovery = 98.660%			
62) 4-Bromofluorobenzene	12.414	95	134355	40.151	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 80.300%			
Target Compounds						Qvalue
16) Acetone	3.879	43	20631	41.353	ug/l	95
25) 2-Butanone	6.909	43	3046	3.650	ug/l	96

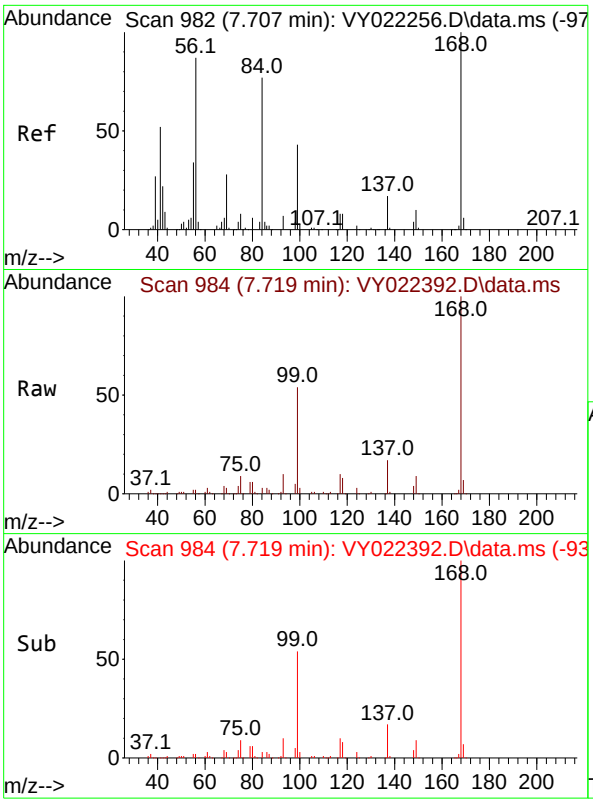
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052225\
Data File : VY022392.D
Acq On : 22 May 2025 13:45
Operator : SY/MD
Sample : Q2074-04
Misc : 7.61g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-20

Quant Time: May 23 03:37:22 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



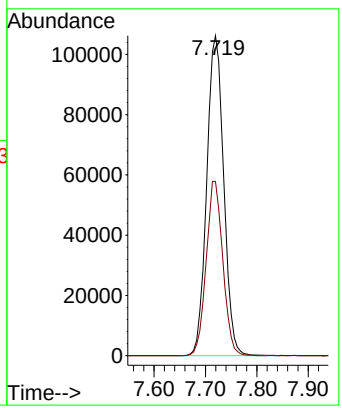


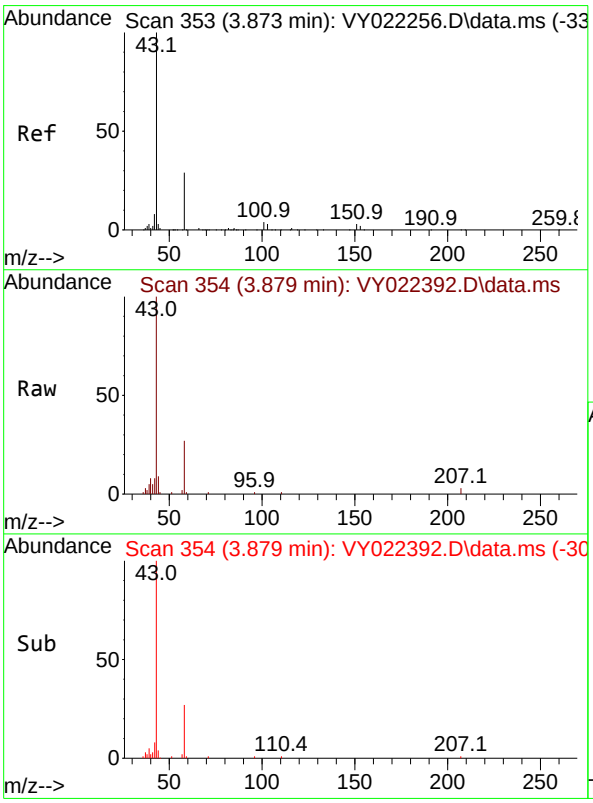
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.719 min Scan# 9
Delta R.T. 0.012 min
Lab File: VY022392.D
Acq: 22 May 2025 13:45

Instrument :
MSVOA_Y
ClientSampleId :
TP-20

Tgt Ion:168 Resp: 243454

Ion	Ratio	Lower	Upper
168	100		
99	54.4	44.2	66.4

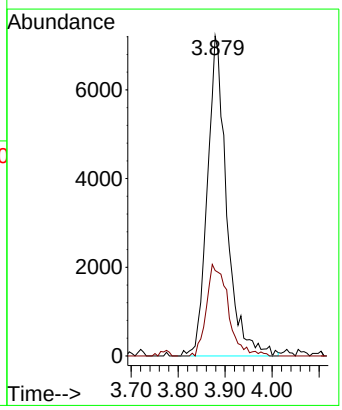


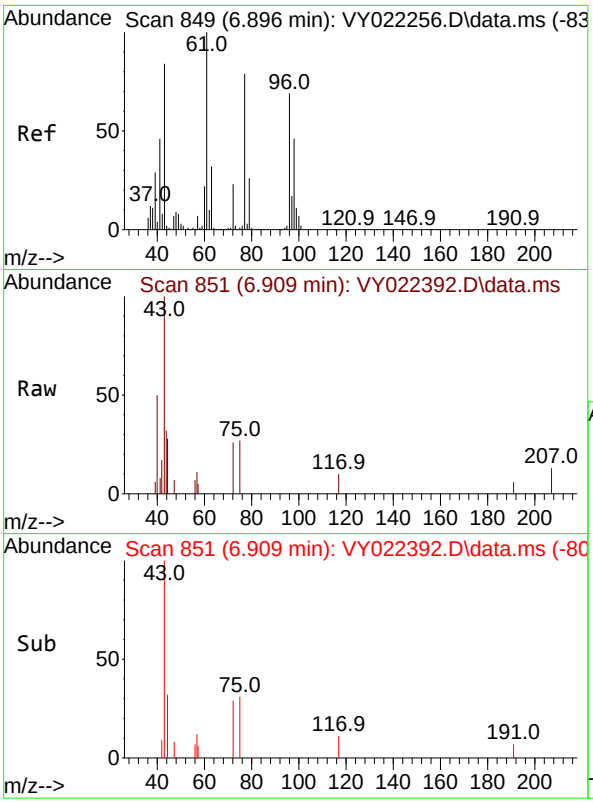


#16
Acetone
Concen: 41.353 ug/l
RT: 3.879 min Scan# 354
Delta R.T. 0.006 min
Lab File: VY022392.D
Acq: 22 May 2025 13:45

Tgt Ion: 43 Resp: 20631

Ion	Ratio	Lower	Upper
43	100		
58	26.7	23.6	35.4



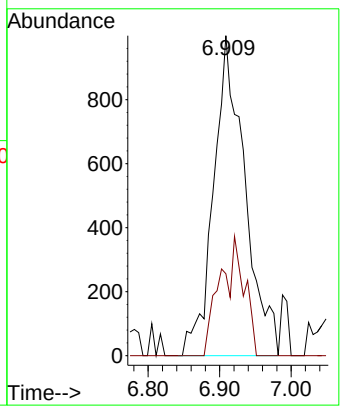


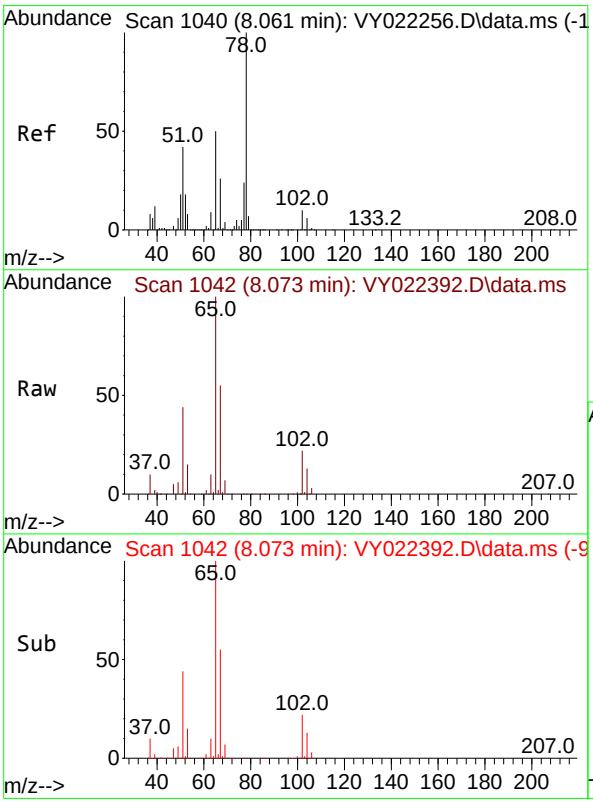
#25
2-Butanone
Concen: 3.650 ug/l
RT: 6.909 min Scan# 8
Delta R.T. 0.012 min
Lab File: VY022392.D
Acq: 22 May 2025 13:45

Instrument :
MSVOA_Y
ClientSampleId :
TP-20

Tgt Ion: 43 Resp: 3046

Ion	Ratio	Lower	Upper
43	100		
72	25.6	22.1	33.1

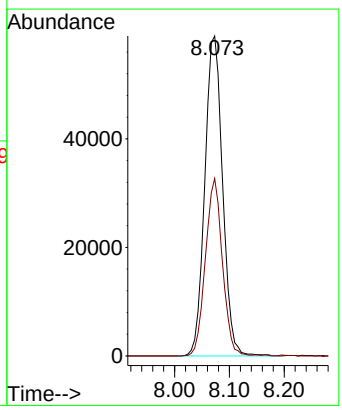


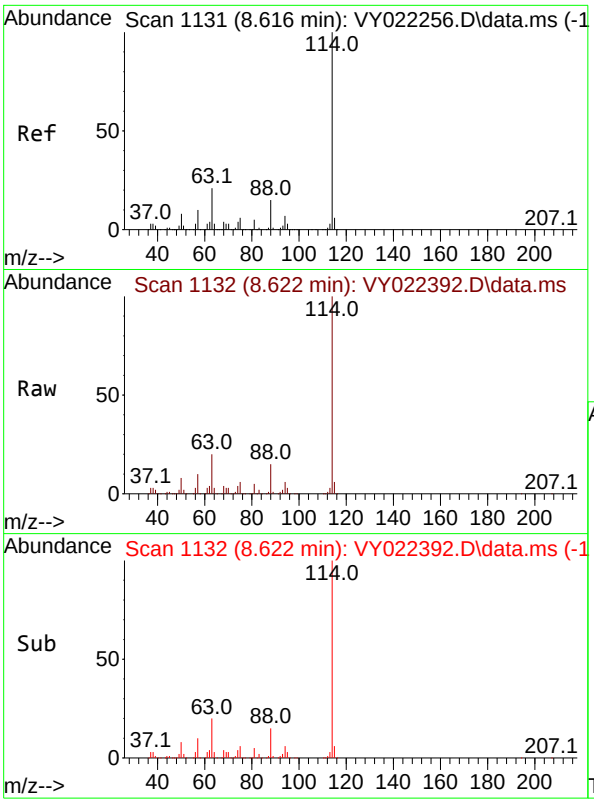


#33
1,2-Dichloroethane-d4
Concen: 49.848 ug/l
RT: 8.073 min Scan# 1042
Delta R.T. 0.012 min
Lab File: VY022392.D
Acq: 22 May 2025 13:45

Tgt Ion: 65 Resp: 132631

Ion	Ratio	Lower	Upper
65	100		
67	52.9	0.0	104.6



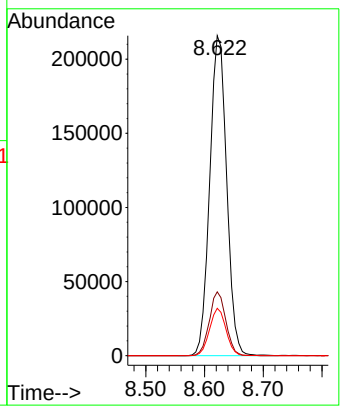


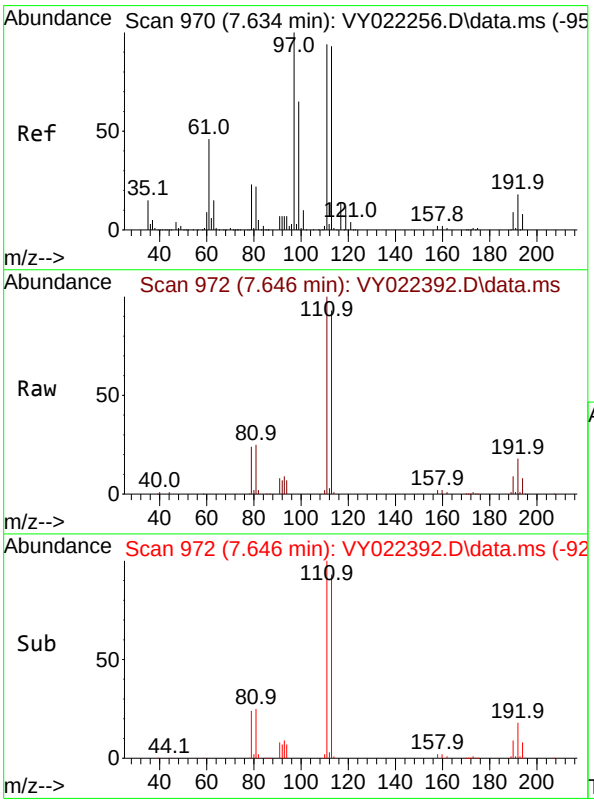
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.622 min Scan# 11
Delta R.T. 0.006 min
Lab File: VY022392.D
Acq: 22 May 2025 13:45

Instrument :
MSVOA_Y
ClientSampleId :
TP-20

Tgt Ion:114 Resp: 431875

Ion	Ratio	Lower	Upper
114	100		
63	20.0	0.0	41.0
88	14.8	0.0	29.4

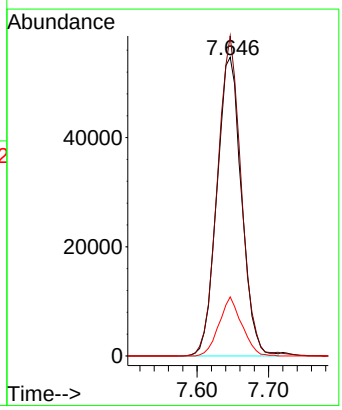


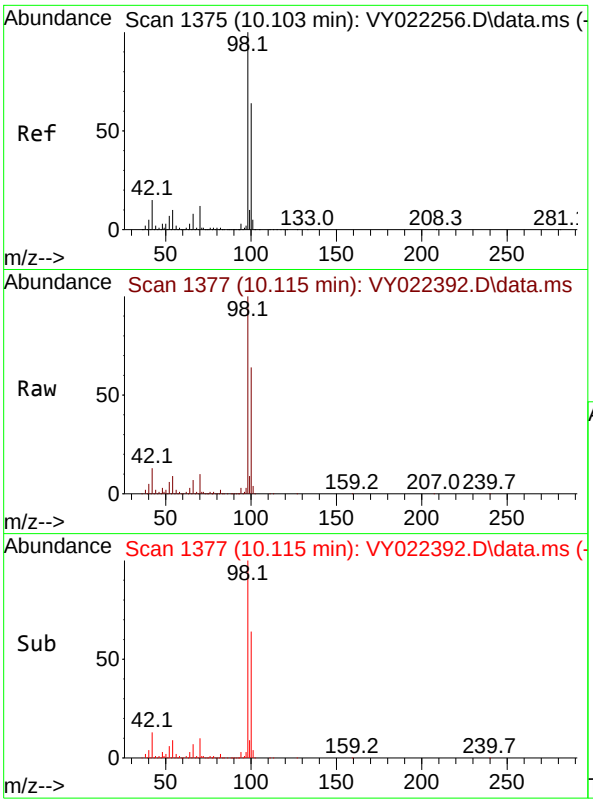


#35
Dibromofluoromethane
Concen: 50.705 ug/l
RT: 7.646 min Scan# 972
Delta R.T. 0.012 min
Lab File: VY022392.D
Acq: 22 May 2025 13:45

Tgt Ion:113 Resp: 130701

Ion	Ratio	Lower	Upper
113	100		
111	103.7	82.6	123.8
192	18.3	15.2	22.8



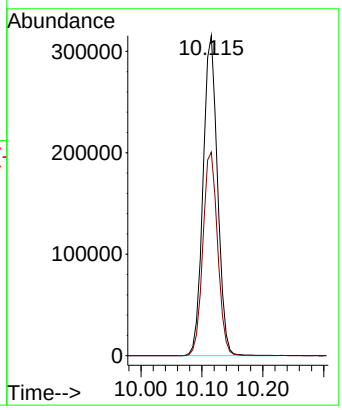


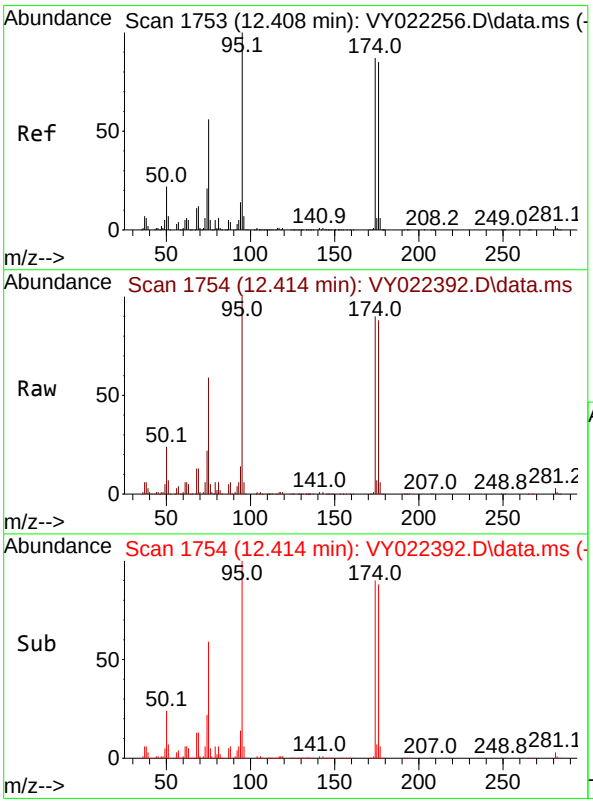
#50
Toluene-d8
Concen: 49.329 ug/l
RT: 10.115 min Scan# 1
Delta R.T. 0.012 min
Lab File: VY022392.D
Acq: 22 May 2025 13:45

Instrument :
MSVOA_Y
ClientSampleId :
TP-20

Tgt Ion: 98 Resp: 520772

Ion	Ratio	Lower	Upper
98	100		
100	64.6	51.8	77.8

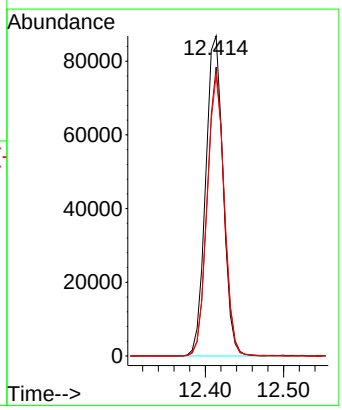


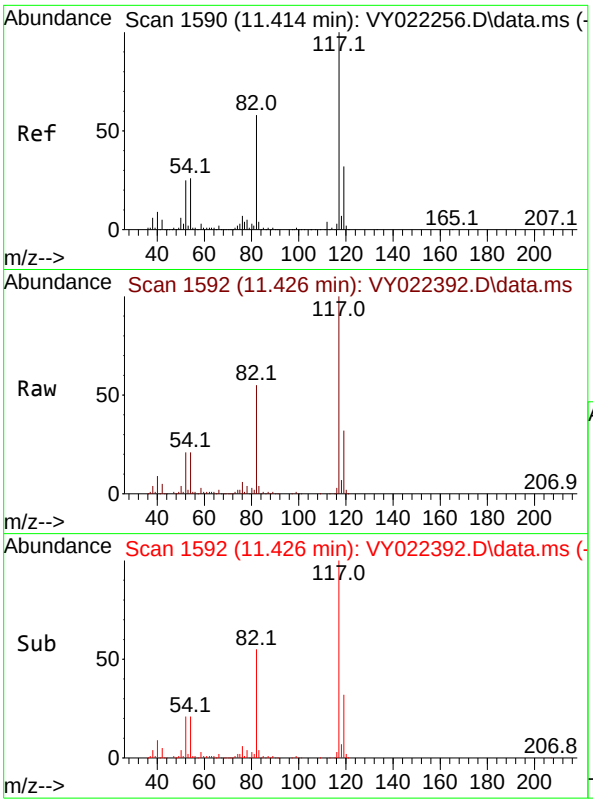


#62
4-Bromofluorobenzene
Concen: 40.151 ug/l
RT: 12.414 min Scan# 1754
Delta R.T. 0.006 min
Lab File: VY022392.D
Acq: 22 May 2025 13:45

Tgt Ion: 95 Resp: 134355

Ion	Ratio	Lower	Upper
95	100		
174	86.6	0.0	166.8
176	85.8	0.0	160.8



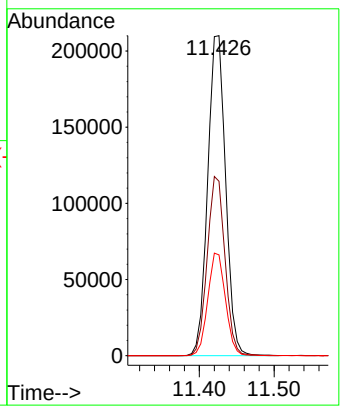


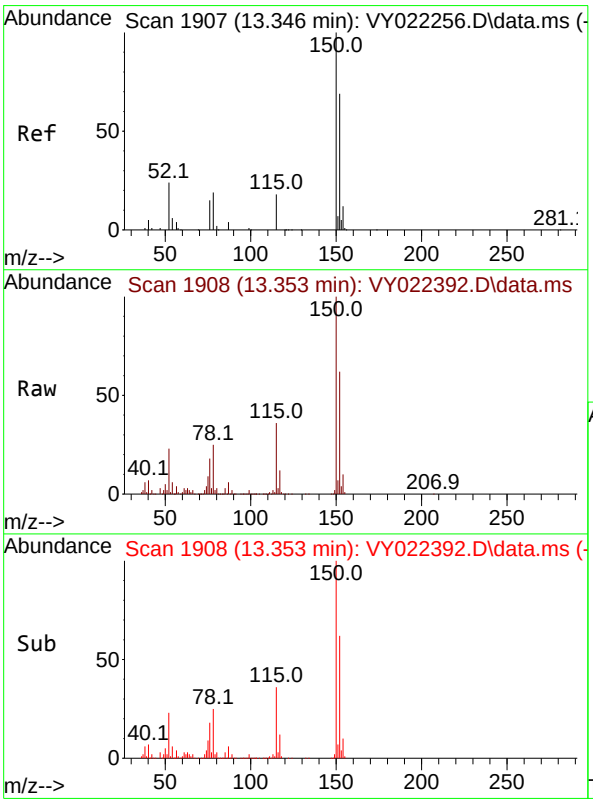
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.426 min Scan# 1
Delta R.T. 0.012 min
Lab File: VY022392.D
Acq: 22 May 2025 13:45

Instrument :
MSVOA_Y
ClientSampleId :
TP-20

Tgt Ion:117 Resp: 349983

Ion	Ratio	Lower	Upper
117	100		
82	54.5	46.6	70.0
119	31.5	25.8	38.6

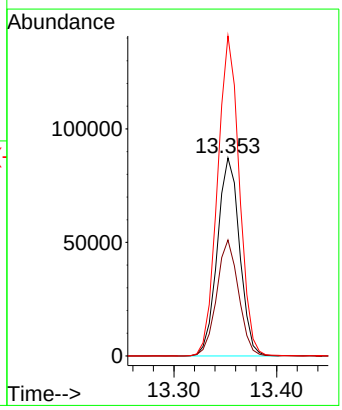




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.353 min Scan# 1908
Delta R.T. 0.006 min
Lab File: VY022392.D
Acq: 22 May 2025 13:45

Tgt Ion:152 Resp: 131238

Ion	Ratio	Lower	Upper
152	100		
115	57.5	29.4	88.2
150	158.0	0.0	353.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052225\
Data File : VY022392.D
Acq On : 22 May 2025 13:45
Operator : SY/MD
Sample : Q2074-04
Misc : 7.61g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-20

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: VY022392.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.184	70	76	78	rBV	9270	17769	1.27%	0.252%
2	2.489	120	126	132	rBV3	11084	30781	2.20%	0.436%
3	2.848	178	185	192	rVB2	17453	40922	2.92%	0.580%
4	3.879	342	354	365	rBV2	11875	33952	2.42%	0.481%
5	4.629	465	477	483	rBV3	12294	37142	2.65%	0.526%
6	7.646	962	972	978	rBV	191941	457678	32.67%	6.484%
7	7.719	978	984	994	rVB	316302	713363	50.93%	10.107%
8	8.073	1032	1042	1053	rBV	179491	399700	28.54%	5.663%
9	8.622	1123	1132	1145	rBV	508895	1010434	72.14%	14.315%
10	10.115	1369	1377	1385	rBV	829253	1400704	100.00%	19.844%
11	11.420	1584	1591	1604	rBV	686678	1137347	81.20%	16.113%
12	12.414	1747	1754	1765	rBV	496895	775511	55.37%	10.987%
13	13.353	1898	1908	1916	rBV	570565	853546	60.94%	12.093%
14	13.889	1990	1996	2007	rVB2	94462	149604	10.68%	2.120%

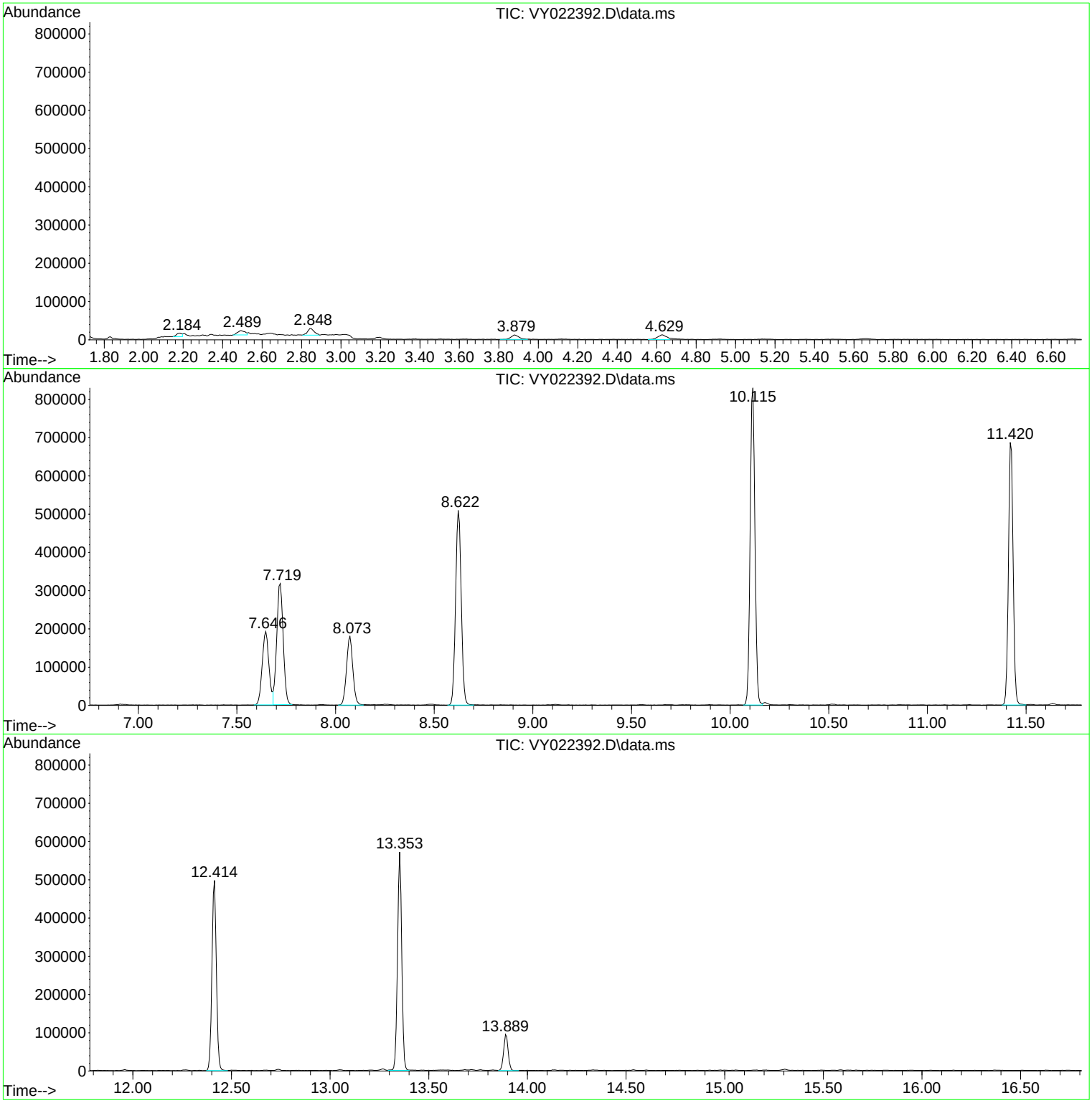
Sum of corrected areas: 7058453

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052225\
Data File : VY022392.D
Acq On : 22 May 2025 13:45
Operator : SY/MD
Sample : Q2074-04
Misc : 7.61g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-20

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 : VY022392.D
Acq On : 22 May 2025 13:45
Operator : SY/MD
Sample : Q2074-04
Misc : 7.61g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-20

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 : VY022392.D
Acq On : 22 May 2025 13:45
Operator : SY/MD
Sample : Q2074-04
Misc : 7.61g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-20

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 : VY022393.D
Acq On : 22 May 2025 14:09
Operator : SY/MD
Sample : Q2074-05
Misc : 7.77g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-38

Quant Time: May 23 03:37:42 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

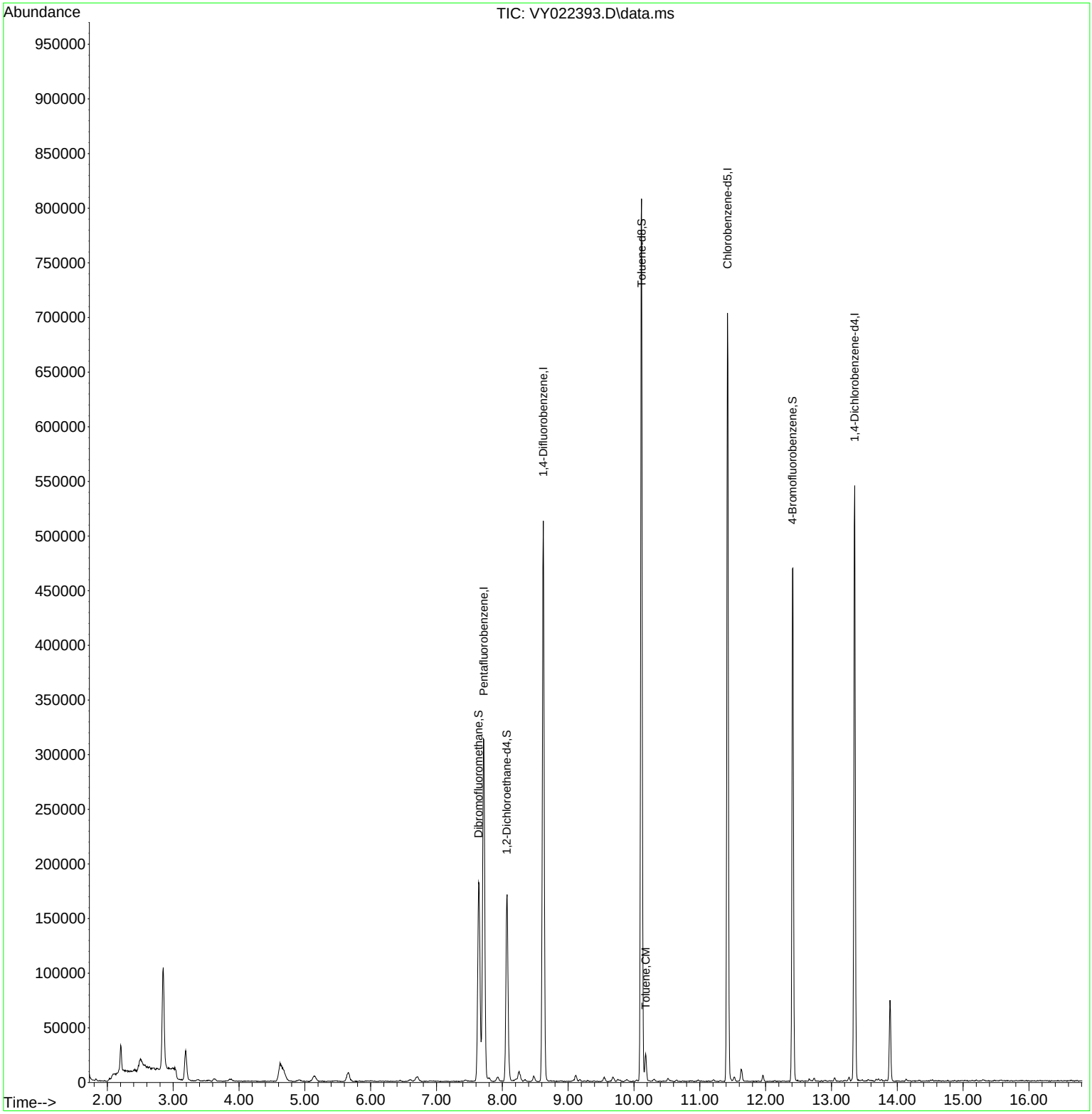
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.720	168	242112	50.000	ug/l	0.01
34) 1,4-Difluorobenzene	8.622	114	427478	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	344204	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.353	152	128188	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.067	65	125709	47.508	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 95.020%			
35) Dibromofluoromethane	7.640	113	129435	50.730	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 101.460%			
50) Toluene-d8	10.115	98	512091	49.006	ug/l	0.01
Spiked Amount 50.000	Range 58 - 134		Recovery = 98.020%			
62) 4-Bromofluorobenzene	12.408	95	131623	39.739	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 79.480%			
Target Compounds						Qvalue
52) Toluene	10.176	92	9715	1.231	ug/l	99

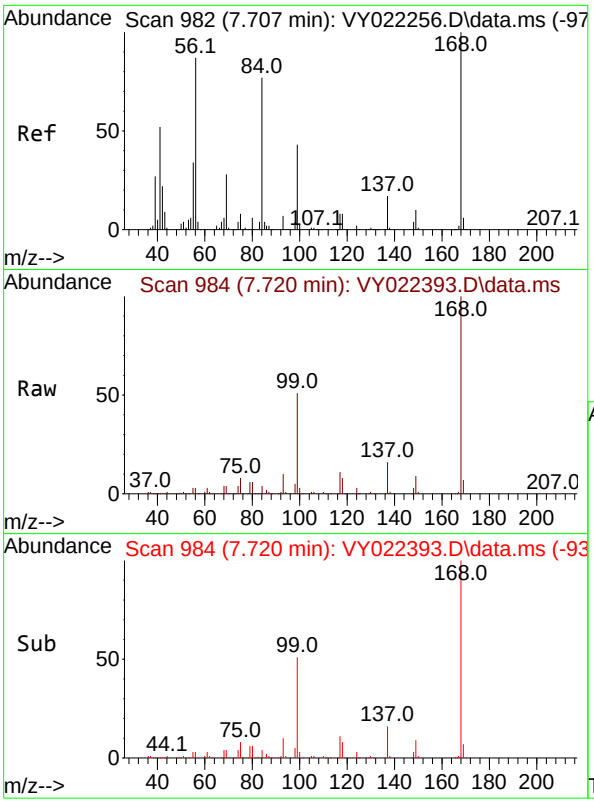
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052225\
Data File : VY022393.D
Acq On : 22 May 2025 14:09
Operator : SY/MD
Sample : Q2074-05
Misc : 7.77g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-38

Quant Time: May 23 03:37:42 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



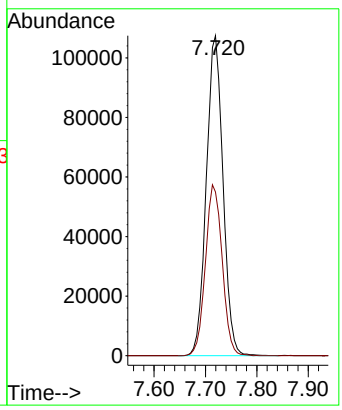


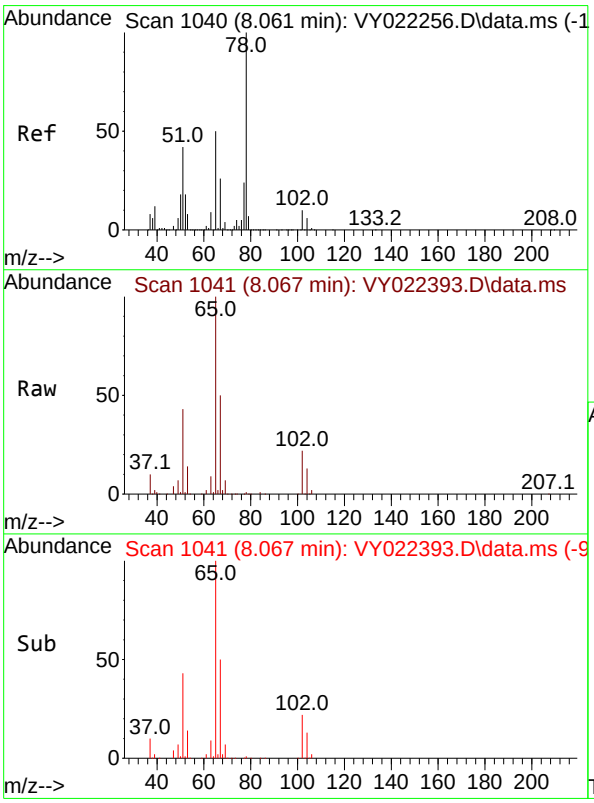
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.720 min Scan# 9
Delta R.T. 0.013 min
Lab File: VY022393.D
Acq: 22 May 2025 14:09

Instrument :
MSVOA_Y
ClientSampleId :
TP-38

Tgt Ion:168 Resp: 242112

Ion	Ratio	Lower	Upper
168	100		
99	51.1	44.2	66.4

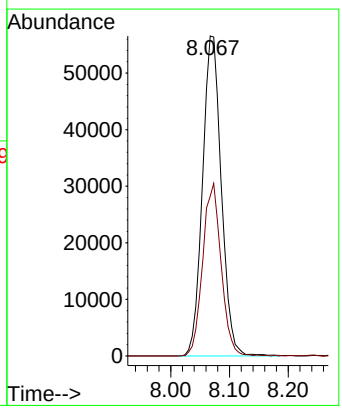


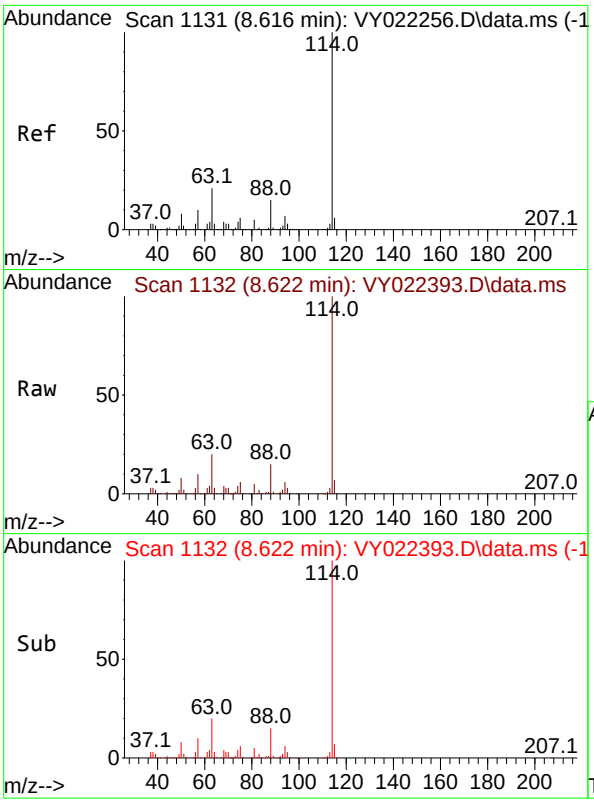


#33
1,2-Dichloroethane-d4
Concen: 47.508 ug/l
RT: 8.067 min Scan# 1041
Delta R.T. 0.006 min
Lab File: VY022393.D
Acq: 22 May 2025 14:09

Tgt Ion: 65 Resp: 125709

Ion	Ratio	Lower	Upper
65	100		
67	52.8	0.0	104.6



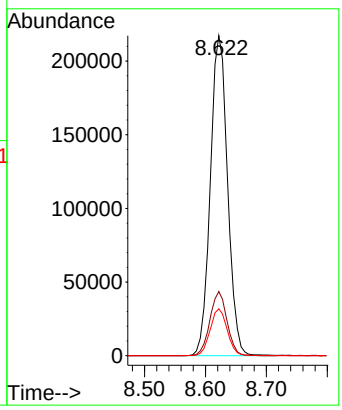


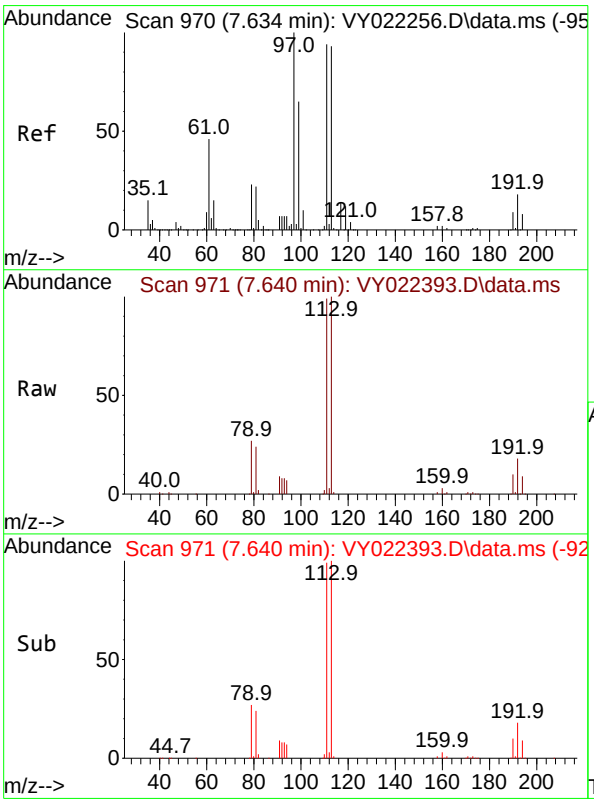
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.622 min Scan# 11
Delta R.T. 0.006 min
Lab File: VY022393.D
Acq: 22 May 2025 14:09

Instrument :
MSVOA_Y
ClientSampleId :
TP-38

Tgt Ion:114 Resp: 427478

Ion	Ratio	Lower	Upper
114	100		
63	20.1	0.0	41.0
88	14.7	0.0	29.4

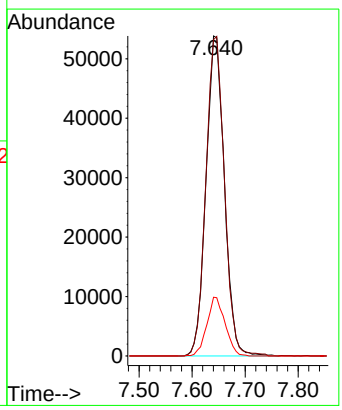


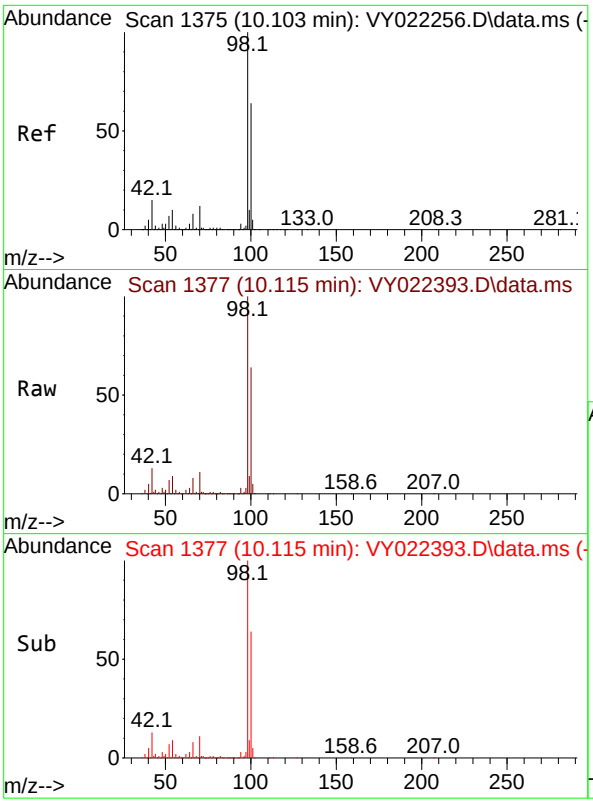


#35
Dibromofluoromethane
Concen: 50.730 ug/l
RT: 7.640 min Scan# 971
Delta R.T. 0.006 min
Lab File: VY022393.D
Acq: 22 May 2025 14:09

Tgt Ion:113 Resp: 129435

Ion	Ratio	Lower	Upper
113	100		
111	100.8	82.6	123.8
192	18.2	15.2	22.8



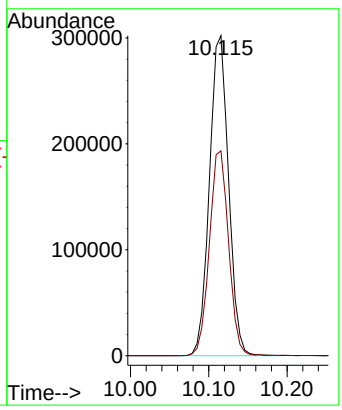


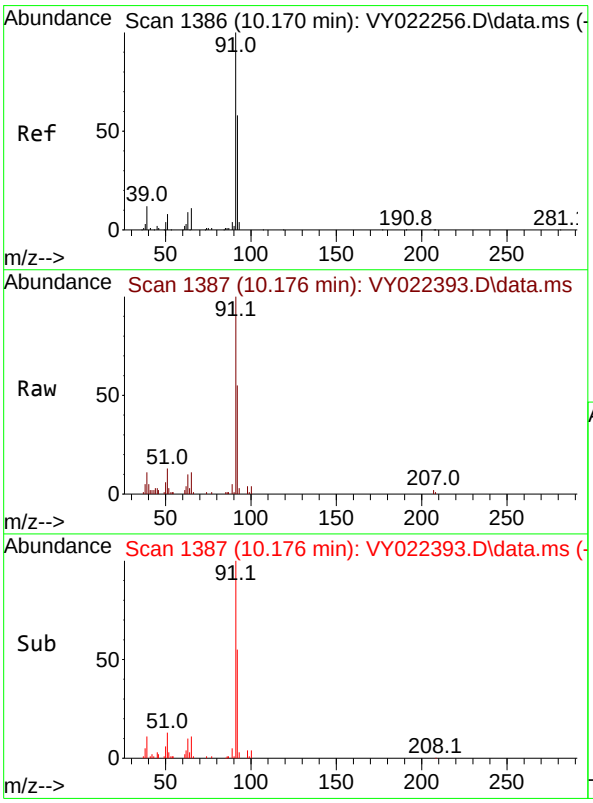
#50
Toluene-d8
Concen: 49.006 ug/l
RT: 10.115 min Scan# 1
Delta R.T. 0.012 min
Lab File: VY022393.D
Acq: 22 May 2025 14:09

Instrument :
MSVOA_Y
ClientSampleId :
TP-38

Tgt Ion: 98 Resp: 512091

Ion	Ratio	Lower	Upper
98	100		
100	64.4	51.8	77.8

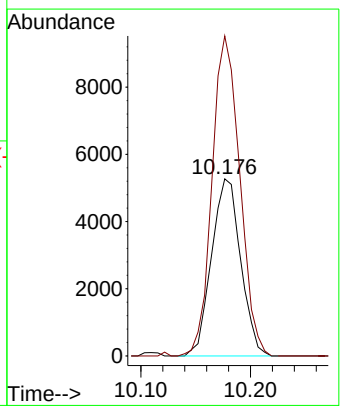


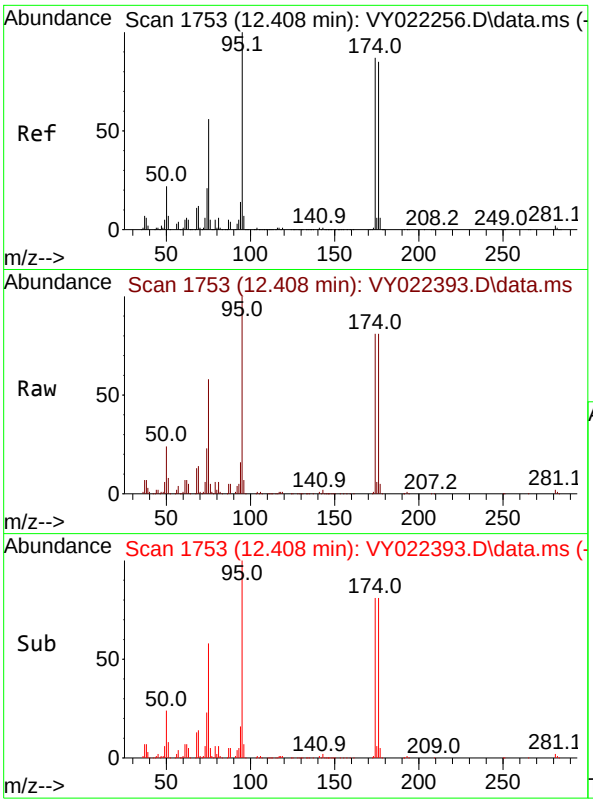


#52
Toluene
Concen: 1.231 ug/l
RT: 10.176 min Scan# 1387
Delta R.T. 0.006 min
Lab File: VY022393.D
Acq: 22 May 2025 14:09

Tgt Ion: 92 Resp: 9715

Ion	Ratio	Lower	Upper
92	100		
91	172.5	139.1	208.7



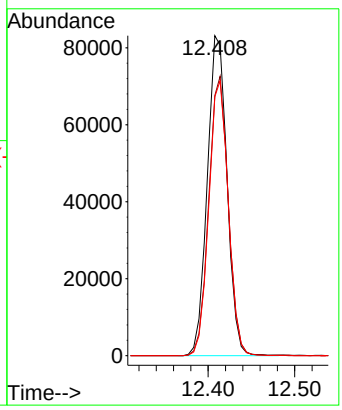


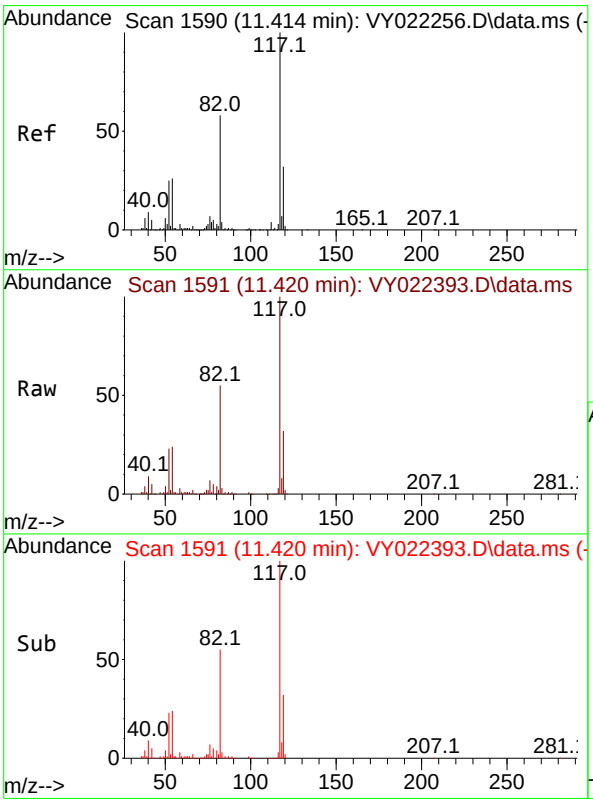
#62
4-Bromofluorobenzene
Concen: 39.739 ug/l
RT: 12.408 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022393.D
Acq: 22 May 2025 14:09

Instrument :
MSVOA_Y
ClientSampleId :
TP-38

Tgt Ion: 95 Resp: 131623

Ion	Ratio	Lower	Upper
95	100		
174	86.1	0.0	166.8
176	84.5	0.0	160.8

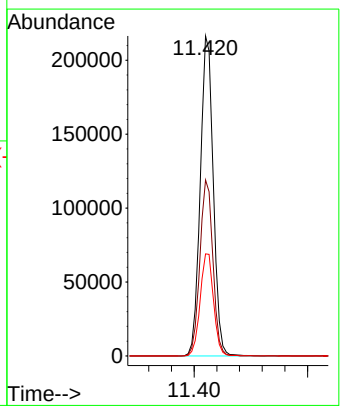


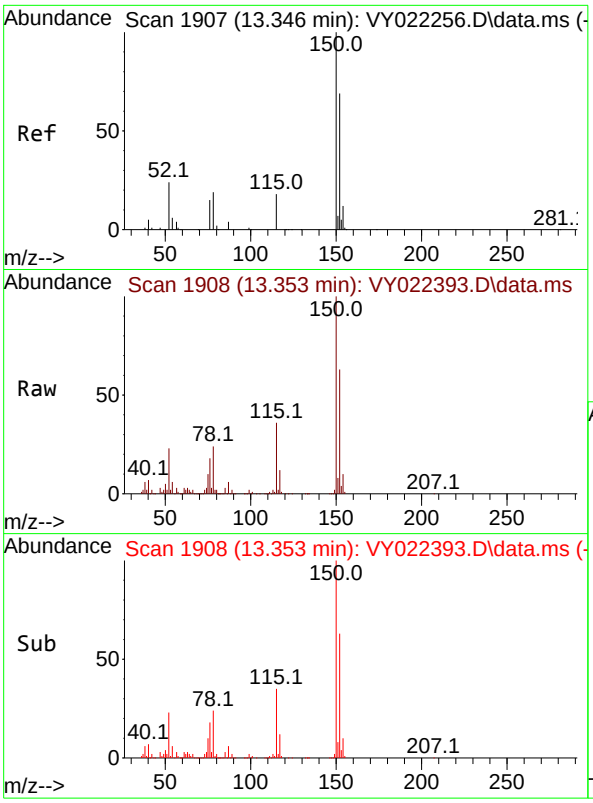


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 1591
Delta R.T. 0.006 min
Lab File: VY022393.D
Acq: 22 May 2025 14:09

Tgt Ion:117 Resp: 344204

Ion	Ratio	Lower	Upper
117	100		
82	55.0	46.6	70.0
119	31.9	25.8	38.6



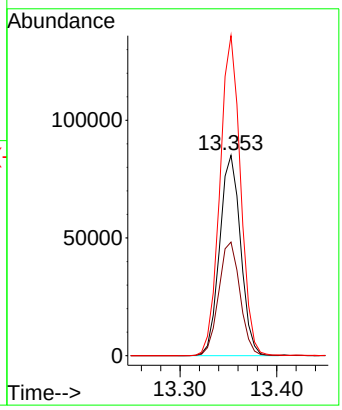


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.353 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022393.D
Acq: 22 May 2025 14:09

Instrument :
MSVOA_Y
ClientSampleId :
TP-38

Tgt Ion:152 Resp: 128188

Ion	Ratio	Lower	Upper
152	100		
115	57.7	29.4	88.2
150	156.9	0.0	353.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052225\
Data File : VY022393.D
Acq On : 22 May 2025 14:09
Operator : SY/MD
Sample : Q2074-05
Misc : 7.77g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-38

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: VY022393.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.202	72	79	84	rBV	25351	43636	3.15%	0.596%
2	2.501	121	128	137	rBV8	10231	38251	2.76%	0.522%
3	2.848	178	185	197	rVB	92539	201872	14.59%	2.756%
4	3.190	233	241	255	rVB2	27656	67012	4.84%	0.915%
5	4.623	466	476	482	rBV2	16687	55454	4.01%	0.757%
6	5.141	548	561	572	rBV6	5245	20797	1.50%	0.284%
7	5.659	635	646	655	rBV4	8185	25759	1.86%	0.352%
8	7.640	962	971	977	rBV	181959	438213	31.66%	5.982%
9	7.713	977	983	994	rVB	311318	722276	52.19%	9.860%
10	8.073	1033	1042	1054	rBV	170766	385527	27.86%	5.263%
11	8.256	1059	1072	1081	rVB2	9208	28651	2.07%	0.391%
12	8.622	1121	1132	1147	rBV	512925	1006449	72.72%	13.739%
13	10.115	1369	1377	1384	rBV	807085	1383987	100.00%	18.893%
14	10.176	1384	1387	1400	rVB	25098	42995	3.11%	0.587%
15	11.420	1584	1591	1602	rBV	703210	1124020	81.22%	15.344%
16	11.627	1619	1625	1635	rVB3	10951	20377	1.47%	0.278%
17	12.414	1746	1754	1763	rBV	469759	766591	55.39%	10.465%
18	13.353	1898	1908	1916	rBV	544727	834934	60.33%	11.398%
19	13.889	1990	1996	2004	rVB2	74030	118583	8.57%	1.619%

Sum of corrected areas: 7325384

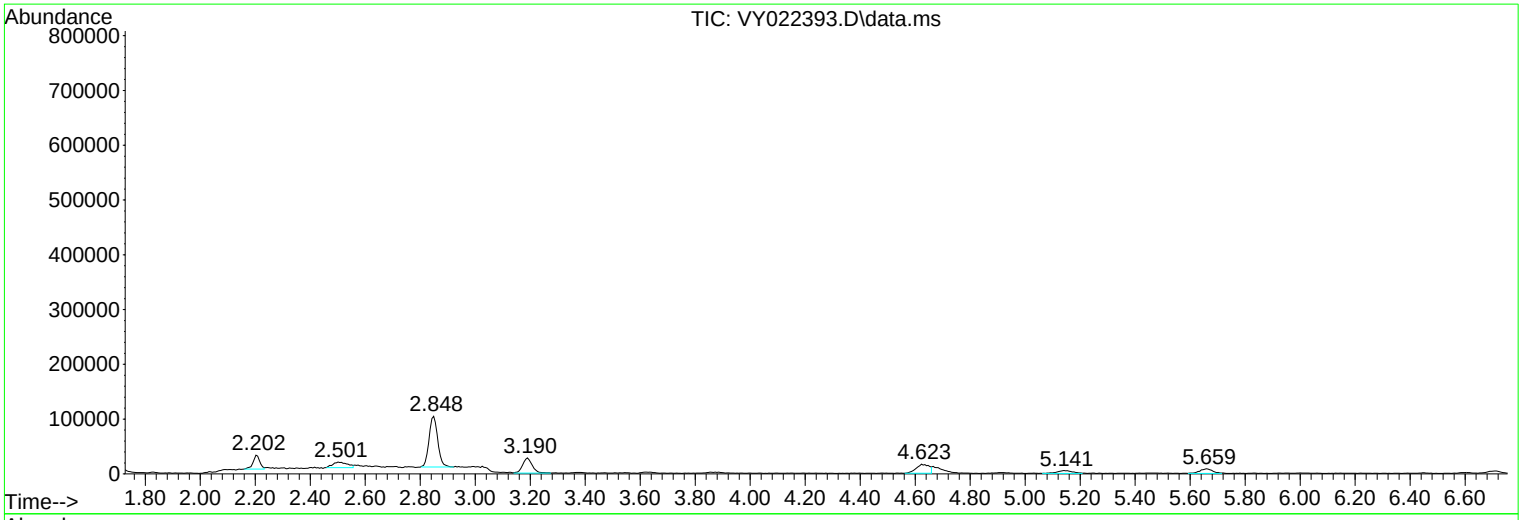
Sample Results: **VY022393.D**

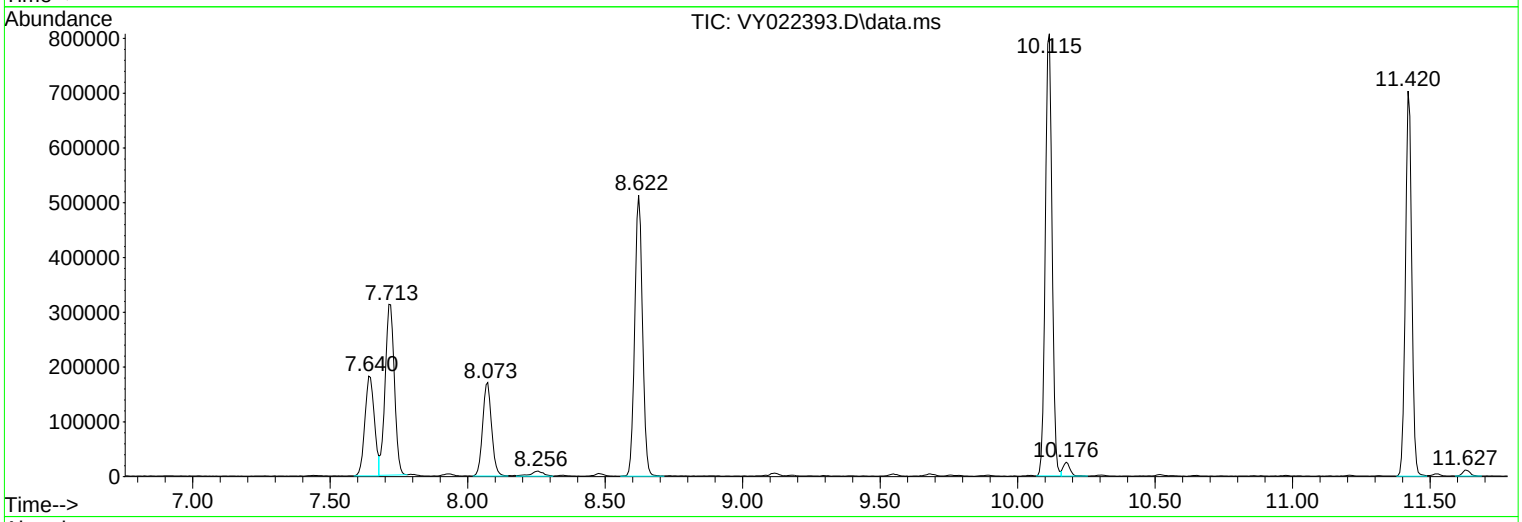
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052225\
Data File : VY022393.D
Acq On : 22 May 2025 14:09
Operator : SY/MD
Sample : Q2074-05
Misc : 7.77g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 15 Sample Multiplier: 1

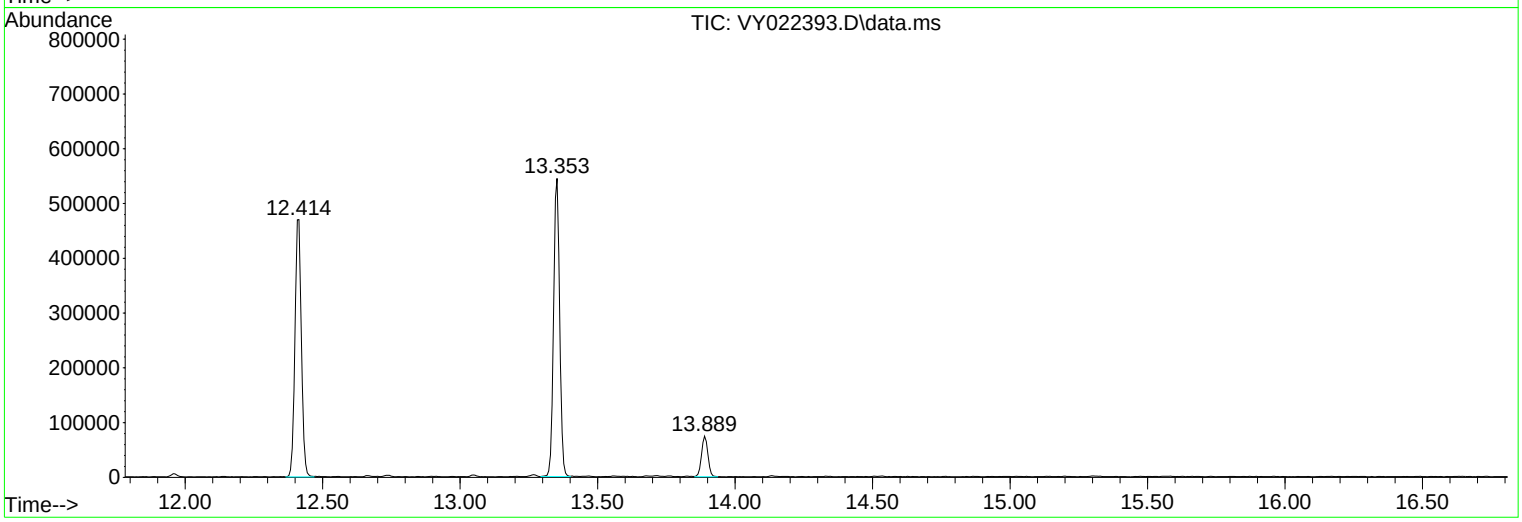
Instrument :
MSVOA_Y
ClientSampleId :
TP-38

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 : VY022393.D
Acq On : 22 May 2025 14:09
Operator : SY/MD
Sample : Q2074-05
Misc : 7.77g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-38

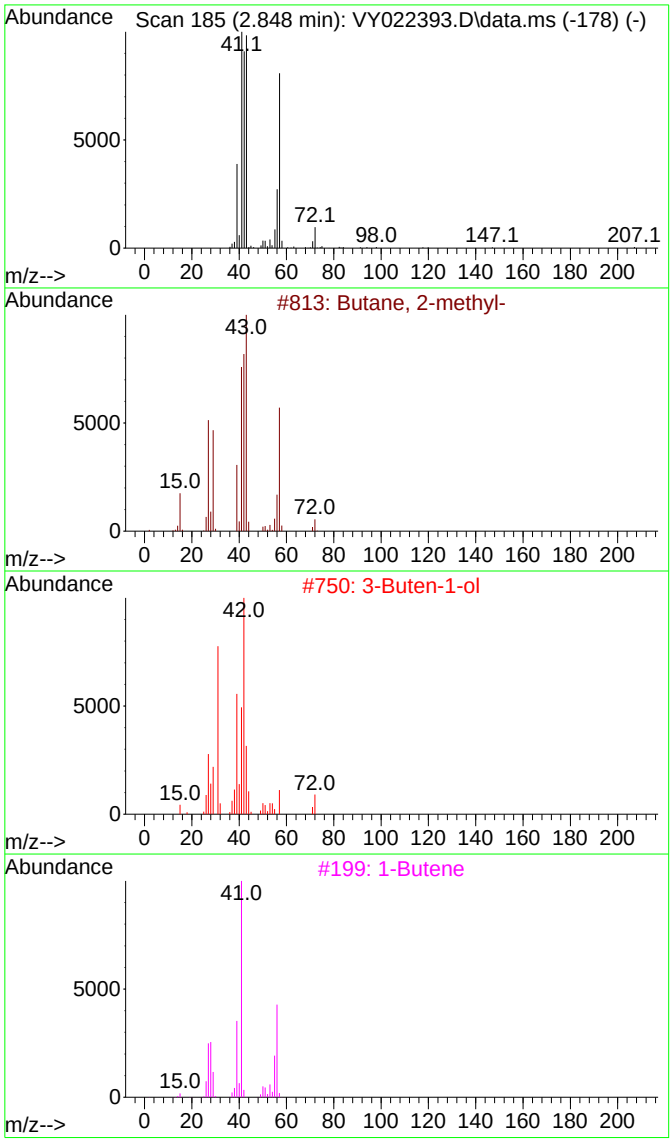
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260

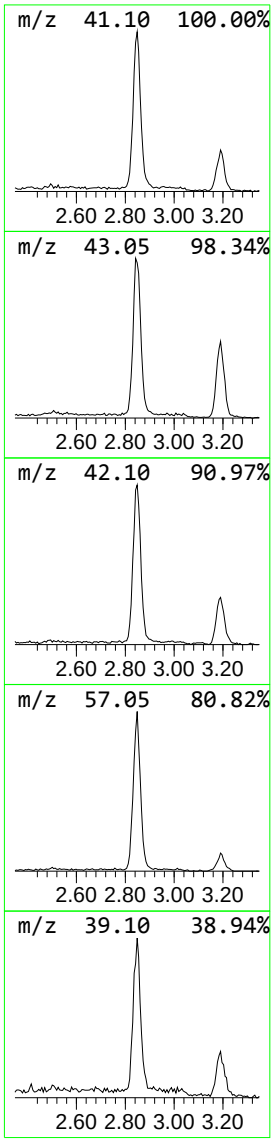
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 1 Butane, 2-methyl- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.848	13.97 ug/l	201872	Pentafluorobenzene	7.720

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2-methyl-	72	C5H12	000078-78-4	64
2	3-Buten-1-ol	72	C4H8O	000627-27-0	28
3	1-Butene	56	C4H8	000106-98-9	27
4	1-Propene, 2-methyl-	56	C4H8	000115-11-7	22
5	1,1-Diisobutoxy-butane	202	C12H26O2	013002-16-9	17





Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052225\
Data File : VY022393.D
Acq On : 22 May 2025 14:09
Operator : SY/MD
Sample : Q2074-05
Misc : 7.77g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-38

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-methyl-	2.848	14.0	ug/l	201872	1	7.720	722276	50.0

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052225\
Data File : VY022394.D
Acq On : 22 May 2025 14:32
Operator : SY/MD
Sample : Q2074-06
Misc : 7.18g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-19

Quant Time: May 23 03:38:04 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

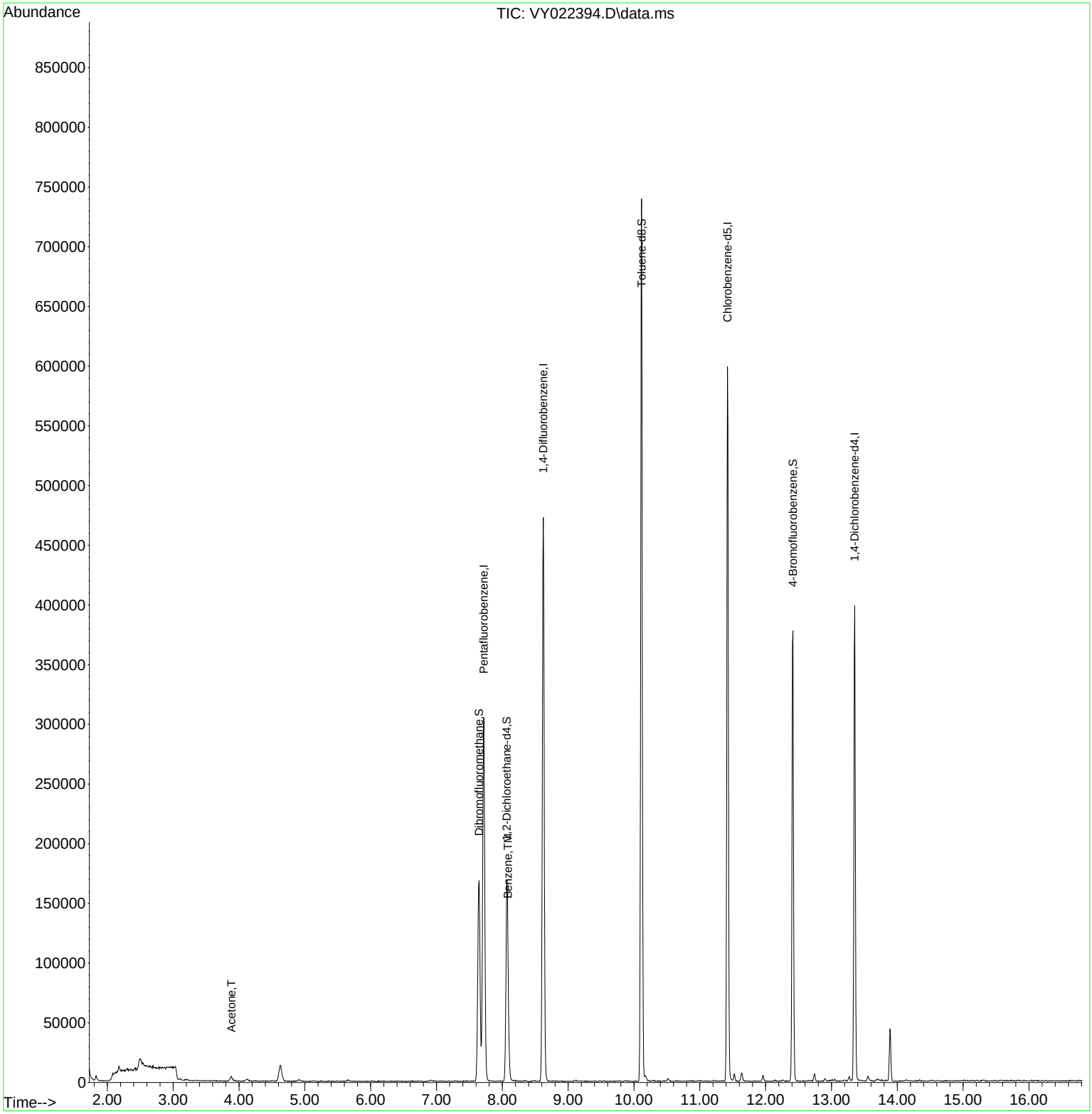
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.719	168	231559	50.000	ug/l	0.01
34) 1,4-Difluorobenzene	8.622	114	398601	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	296277	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.353	152	94056	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.067	65	117822	46.557	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 93.120%			
35) Dibromofluoromethane	7.646	113	118230	49.696	ug/l	0.01
Spiked Amount 50.000	Range 54 - 147		Recovery = 99.400%			
50) Toluene-d8	10.115	98	467756	48.006	ug/l	0.01
Spiked Amount 50.000	Range 58 - 134		Recovery = 96.020%			
62) 4-Bromofluorobenzene	12.414	95	103960	33.661	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 67.320%			
Target Compounds						Qvalue
16) Acetone	3.885	43	6639	13.991	ug/l #	86
40) Benzene	8.085	78	23915	2.059	ug/l	94

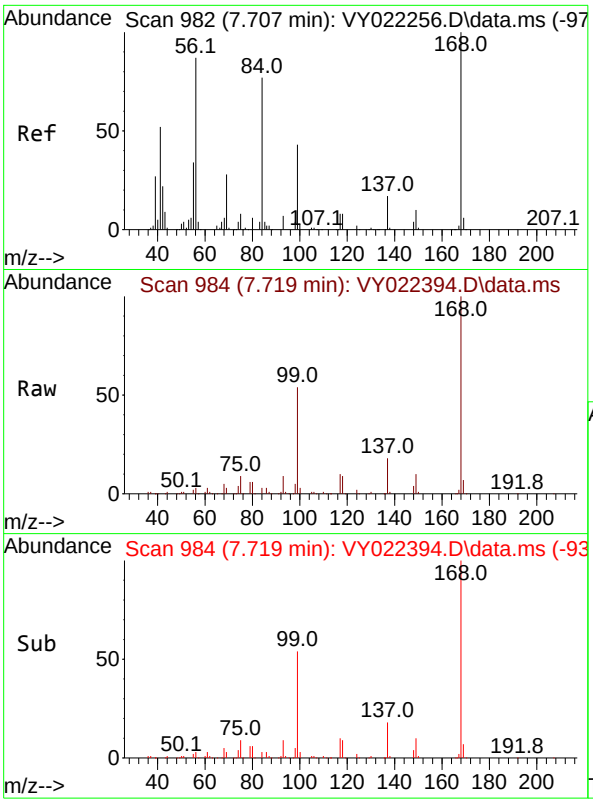
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052225\
Data File : VY022394.D
Acq On : 22 May 2025 14:32
Operator : SY/MD
Sample : Q2074-06
Misc : 7.18g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-19

Quant Time: May 23 03:38:04 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



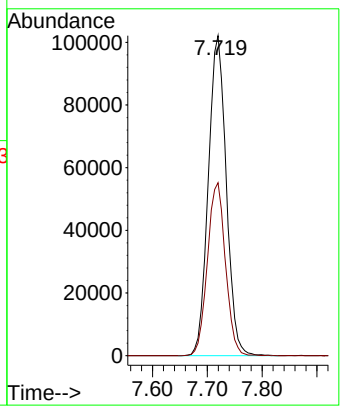


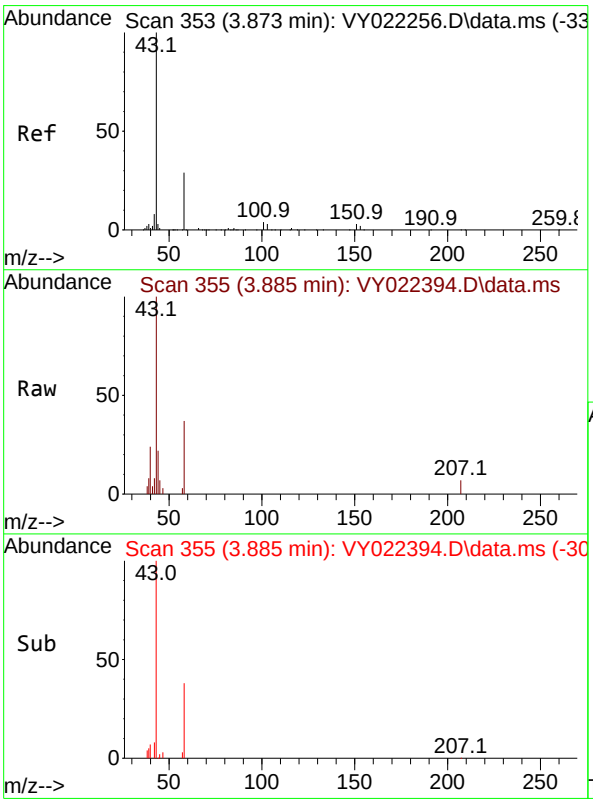
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.719 min Scan# 9
Delta R.T. 0.012 min
Lab File: VY022394.D
Acq: 22 May 2025 14:32

Instrument :
MSVOA_Y
ClientSampleId :
TP-19

Tgt Ion:168 Resp: 231559

Ion	Ratio	Lower	Upper
168	100		
99	54.0	44.2	66.4

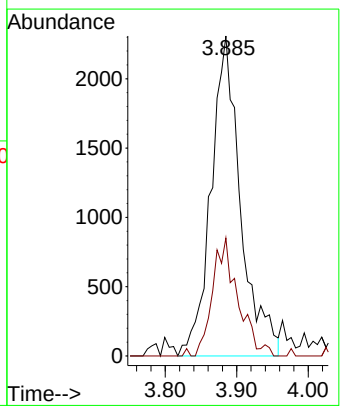


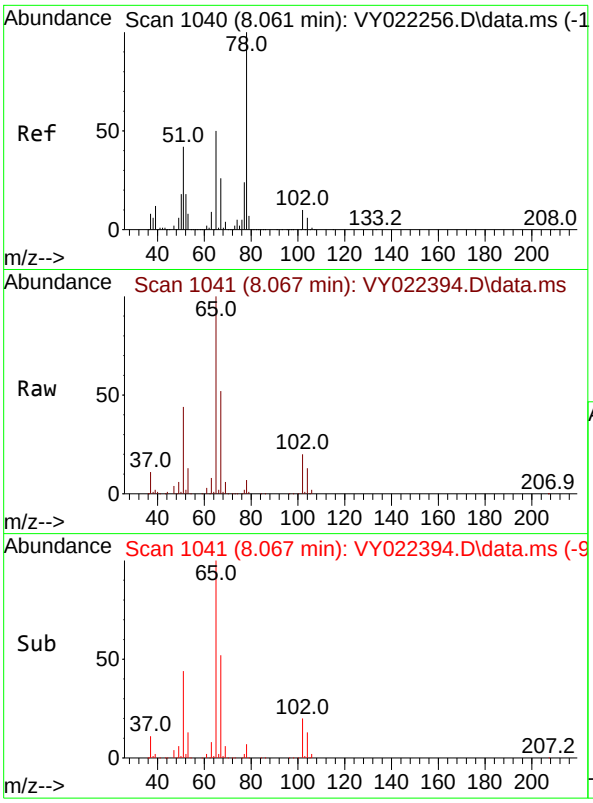


#16
Acetone
Concen: 13.991 ug/l
RT: 3.885 min Scan# 355
Delta R.T. 0.012 min
Lab File: VY022394.D
Acq: 22 May 2025 14:32

Tgt Ion: 43 Resp: 6639

Ion	Ratio	Lower	Upper
43	100		
58	36.9	23.6	35.4#



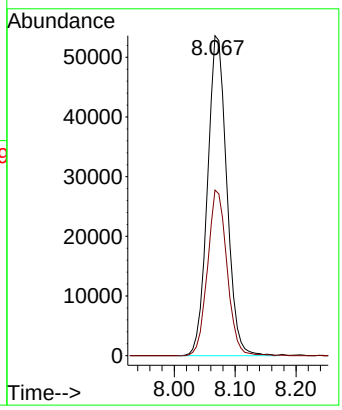


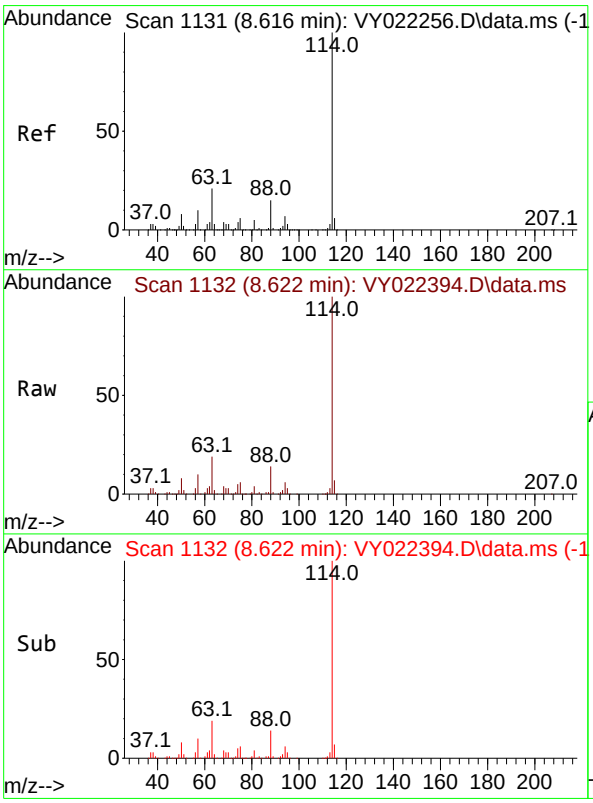
#33
1,2-Dichloroethane-d4
Concen: 46.557 ug/l
RT: 8.067 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022394.D
Acq: 22 May 2025 14:32

Instrument :
MSVOA_Y
ClientSampleId :
TP-19

Tgt Ion: 65 Resp: 117822

Ion	Ratio	Lower	Upper
65	100		
67	52.2	0.0	104.6

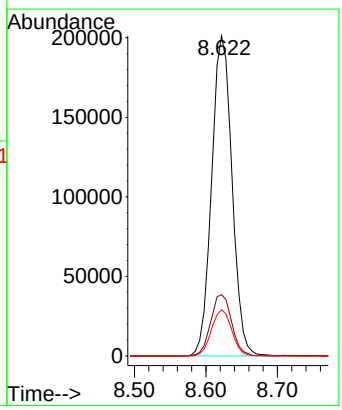


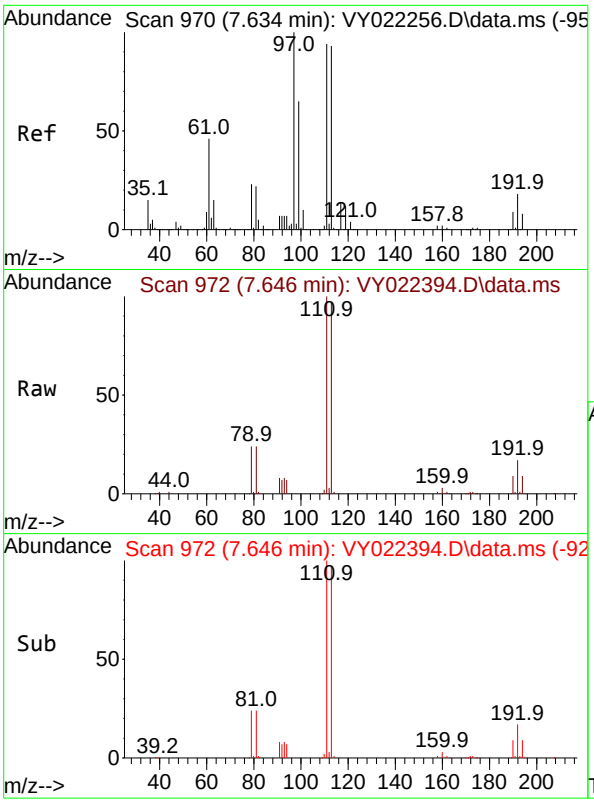


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.622 min Scan# 1132
Delta R.T. 0.006 min
Lab File: VY022394.D
Acq: 22 May 2025 14:32

Tgt Ion:114 Resp: 398601

Ion	Ratio	Lower	Upper
114	100		
63	19.1	0.0	41.0
88	14.5	0.0	29.4



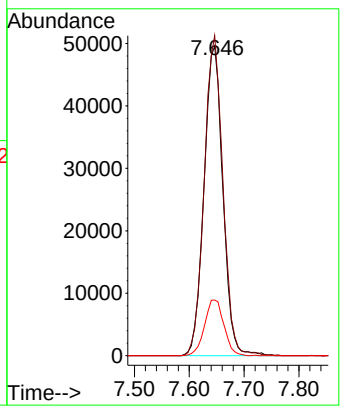


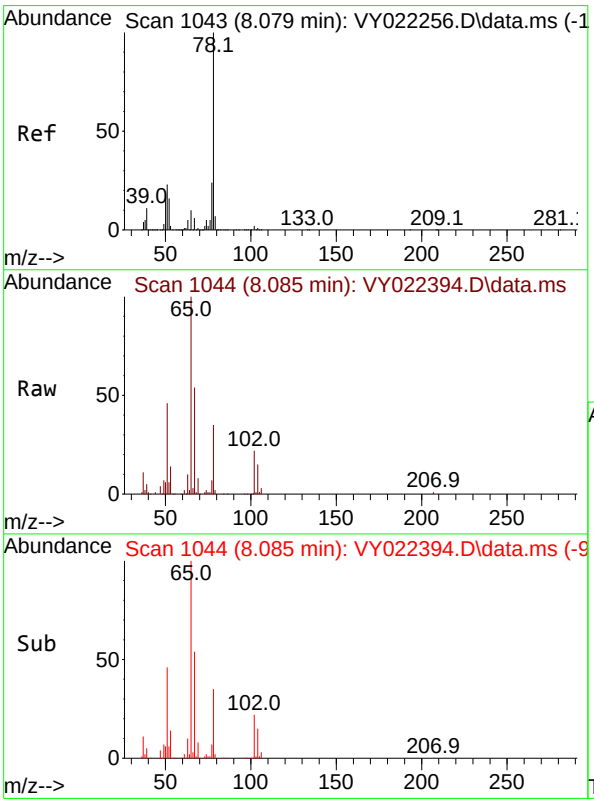
#35
Dibromofluoromethane
Concen: 49.696 ug/l
RT: 7.646 min Scan# 9
Delta R.T. 0.012 min
Lab File: VY022394.D
Acq: 22 May 2025 14:32

Instrument :
MSVOA_Y
ClientSampleId :
TP-19

Tgt Ion:113 Resp: 118230

Ion	Ratio	Lower	Upper
113	100		
111	102.5	82.6	123.8
192	18.5	15.2	22.8

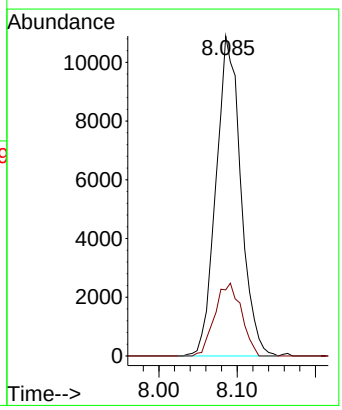


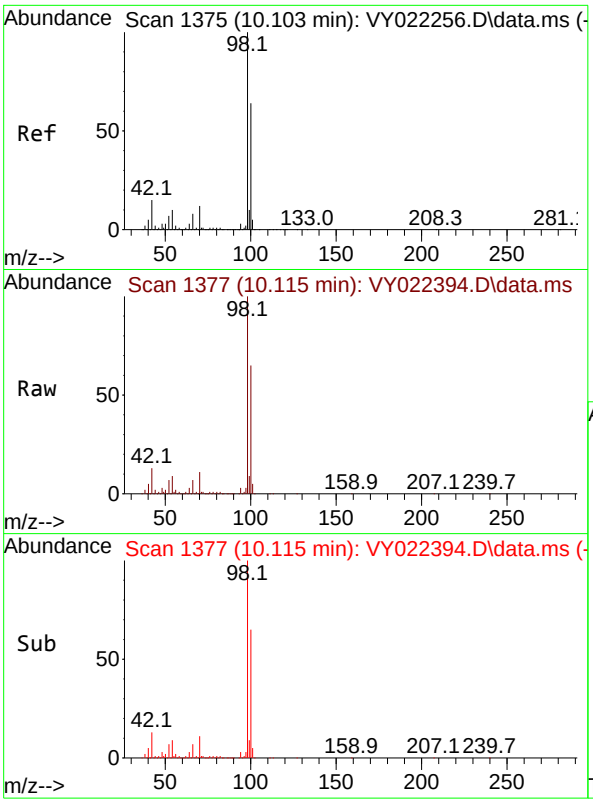


#40
Benzene
Concen: 2.059 ug/l
RT: 8.085 min Scan# 1044
Delta R.T. 0.006 min
Lab File: VY022394.D
Acq: 22 May 2025 14:32

Tgt Ion: 78 Resp: 23915

Ion	Ratio	Lower	Upper
78	100		
77	20.7	18.9	28.3



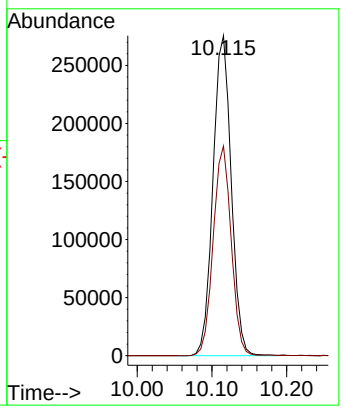


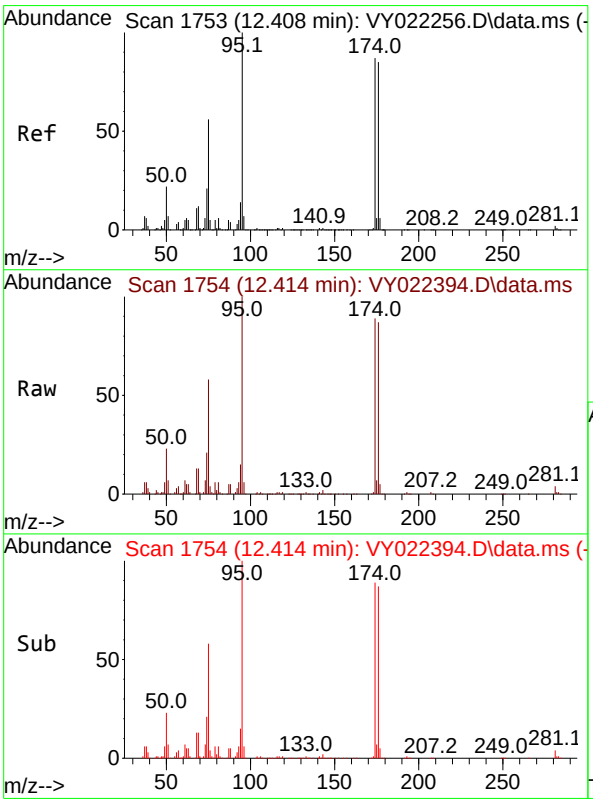
#50
Toluene-d8
Concen: 48.006 ug/l
RT: 10.115 min Scan# 1
Delta R.T. 0.012 min
Lab File: VY022394.D
Acq: 22 May 2025 14:32

Instrument :
MSVOA_Y
ClientSampleId :
TP-19

Tgt Ion: 98 Resp: 467756

Ion	Ratio	Lower	Upper
98	100		
100	64.7	51.8	77.8

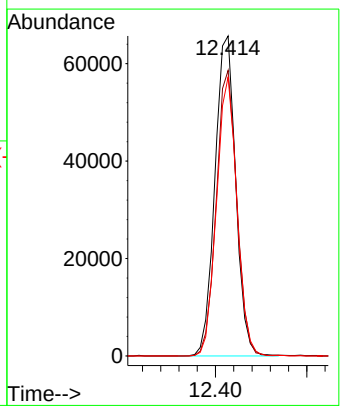


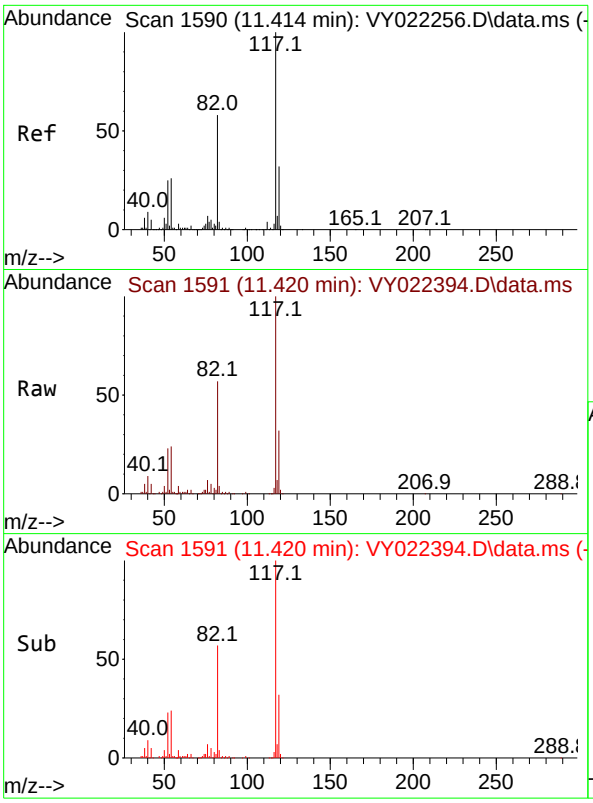


#62
4-Bromofluorobenzene
Concen: 33.661 ug/l
RT: 12.414 min Scan# 1754
Delta R.T. 0.006 min
Lab File: VY022394.D
Acq: 22 May 2025 14:32

Tgt Ion: 95 Resp: 103960

Ion	Ratio	Lower	Upper
95	100		
174	88.2	0.0	166.8
176	85.4	0.0	160.8



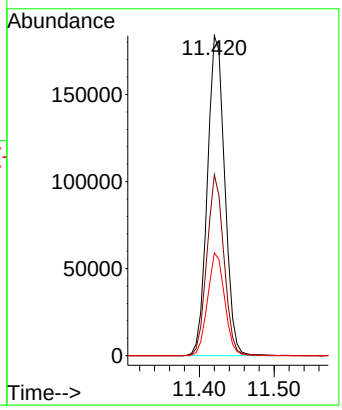


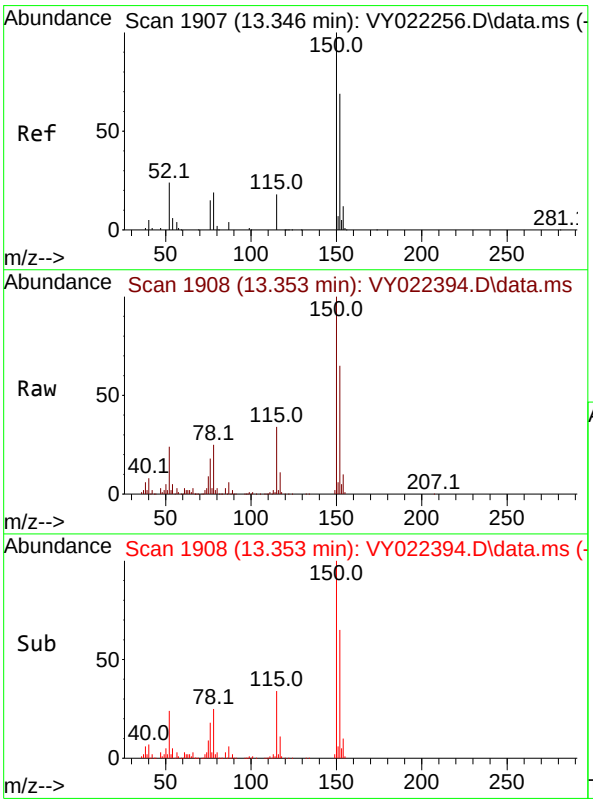
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022394.D
Acq: 22 May 2025 14:32

Instrument :
MSVOA_Y
ClientSampleId :
TP-19

Tgt Ion:117 Resp: 296277

Ion	Ratio	Lower	Upper
117	100		
82	56.6	46.6	70.0
119	32.2	25.8	38.6

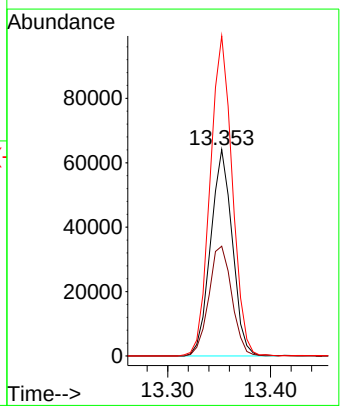




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.353 min Scan# 1908
Delta R.T. 0.006 min
Lab File: VY022394.D
Acq: 22 May 2025 14:32

Tgt Ion:152 Resp: 94056

Ion	Ratio	Lower	Upper
152	100		
115	56.6	29.4	88.2
150	157.5	0.0	353.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052225\
Data File : VY022394.D
Acq On : 22 May 2025 14:32
Operator : SY/MD
Sample : Q2074-06
Misc : 7.18g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-19

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: VY022394.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.495	121	127	132	rBV2	8240	22571	1.78%	0.375%
2	4.622	466	476	487	rBV3	13279	41800	3.30%	0.694%
3	7.646	961	972	977	rBV	168091	400416	31.63%	6.648%
4	7.719	977	984	995	rVB	304080	689026	54.43%	11.440%
5	8.073	1031	1042	1055	rBV2	168745	404911	31.99%	6.723%
6	8.622	1123	1132	1144	rBV	472562	932566	73.67%	15.484%
7	10.115	1369	1377	1384	rBV	739115	1265797	100.00%	21.017%
8	11.420	1584	1591	1603	rBV	598637	964469	76.19%	16.013%
9	11.633	1620	1626	1631	rBV3	6964	13314	1.05%	0.221%
10	12.414	1746	1754	1765	rVB	377178	609796	48.17%	10.125%
11	13.353	1901	1908	1919	rBV	397725	606832	47.94%	10.075%
12	13.889	1990	1996	2005	rVB	43885	71359	5.64%	1.185%

Sum of corrected areas: 6022857

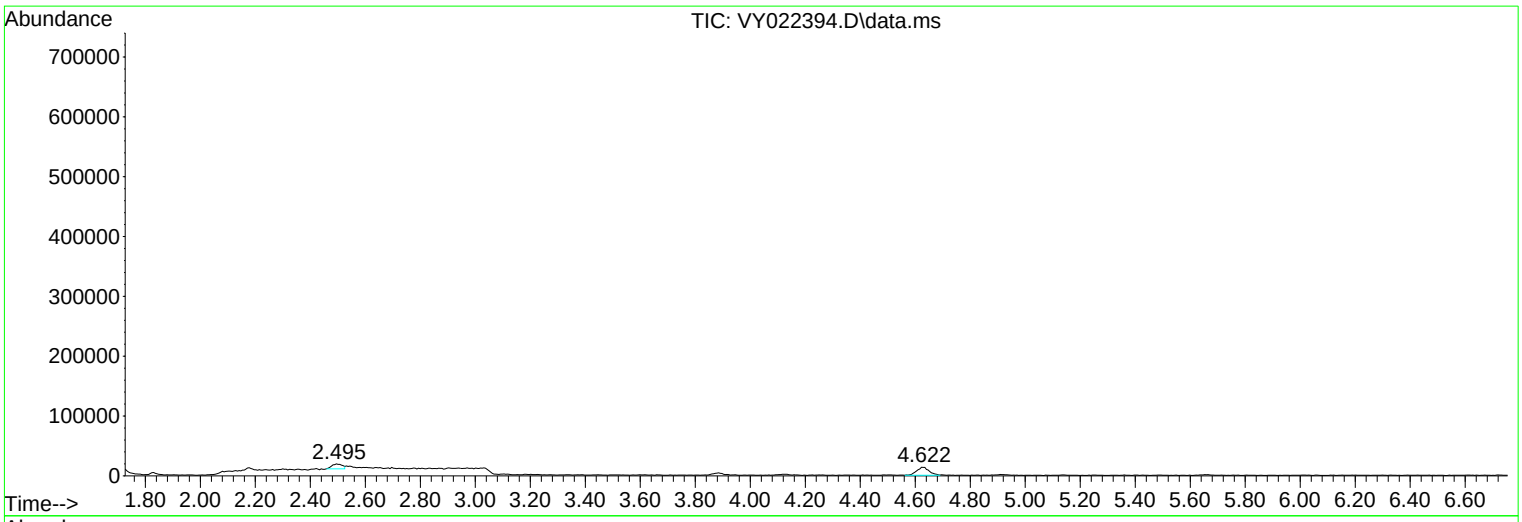
Sample Results: **VY022394.D**

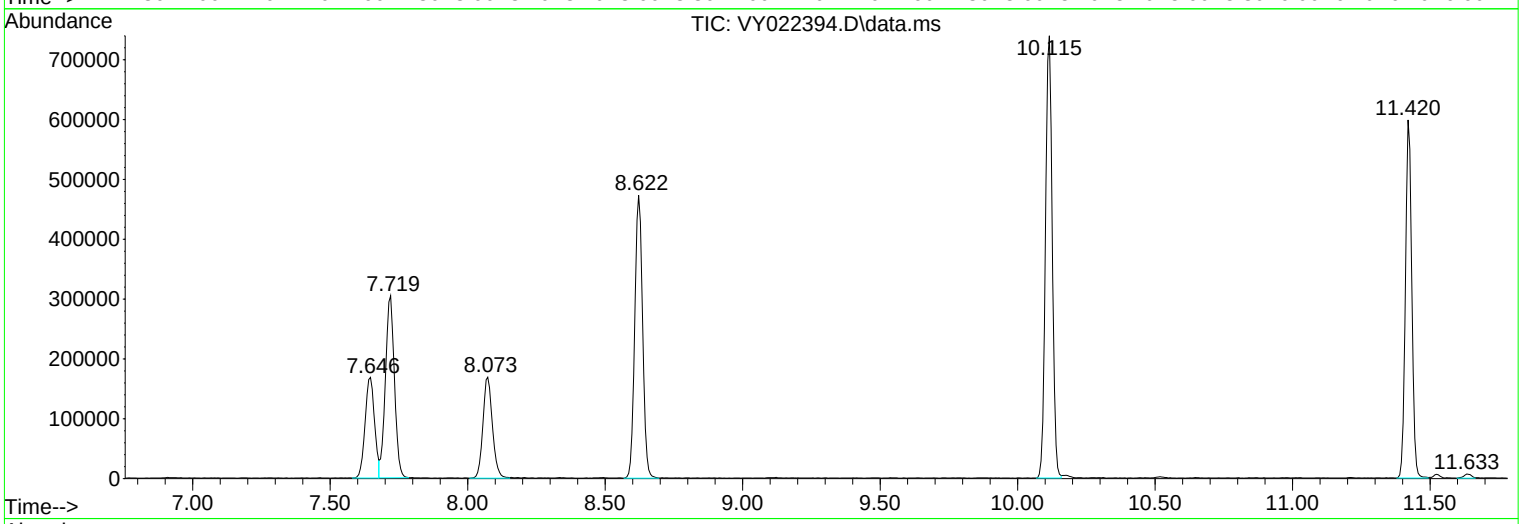
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052225\
Data File : VY022394.D
Acq On : 22 May 2025 14:32
Operator : SY/MD
Sample : Q2074-06
Misc : 7.18g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 16 Sample Multiplier: 1

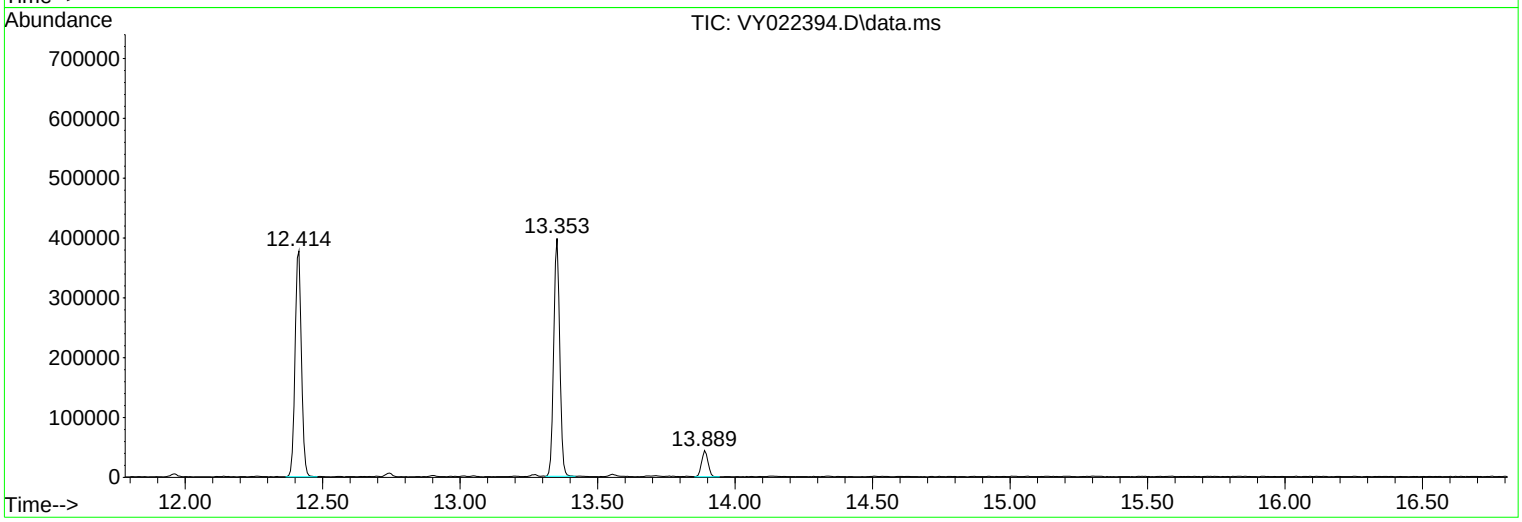
Instrument :
MSVOA_Y
ClientSampleId :
TP-19

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 : VY022394.D
Acq On : 22 May 2025 14:32
Operator : SY/MD
Sample : Q2074-06
Misc : 7.18g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-19

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 : VY022394.D
Acq On : 22 May 2025 14:32
Operator : SY/MD
Sample : Q2074-06
Misc : 7.18g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-19

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 : VY022395.D
Acq On : 22 May 2025 14:55
Operator : SY/MD
Sample : Q2074-07
Misc : 6.04g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-40

Quant Time: May 23 03:38:26 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

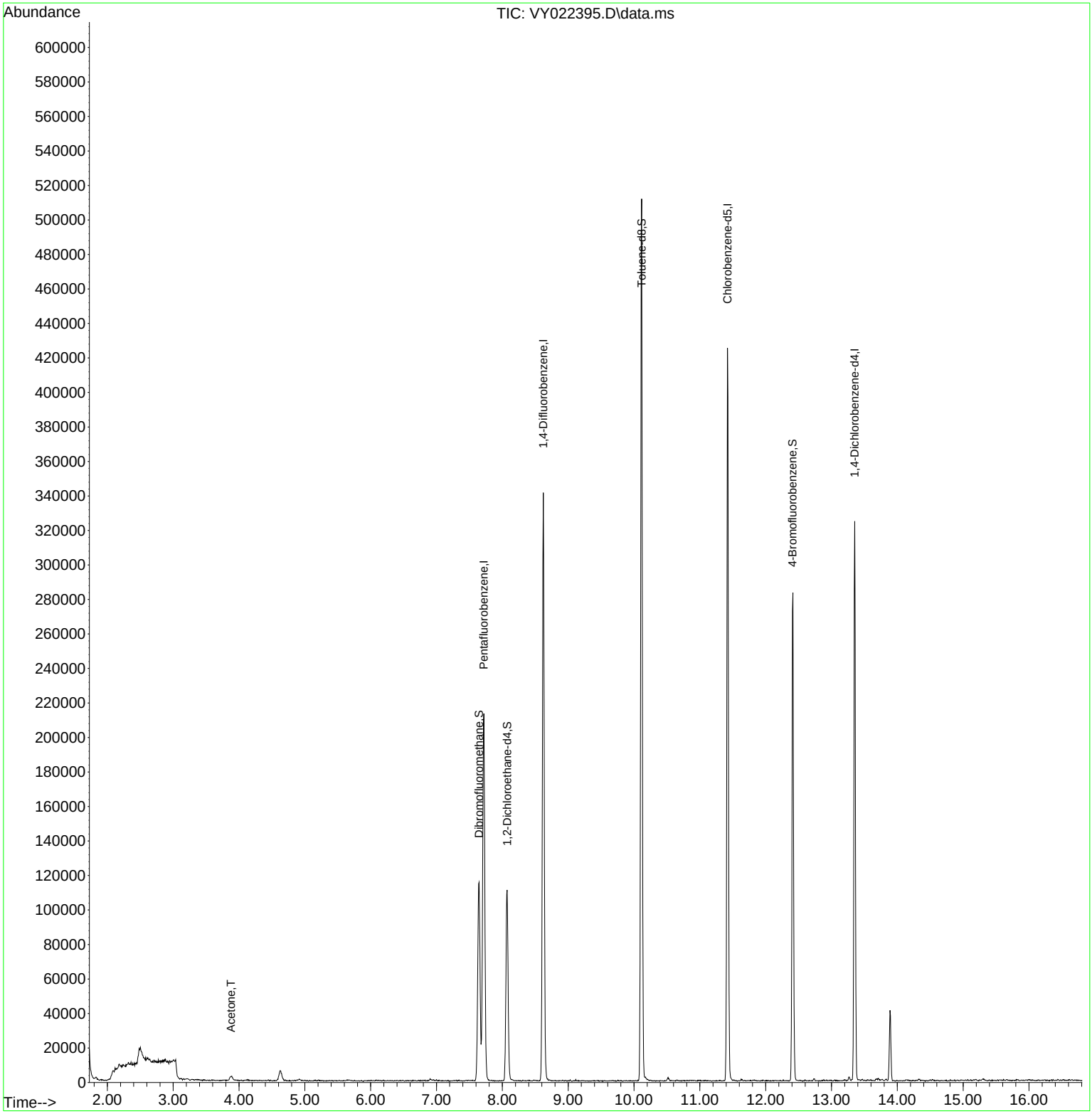
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.719	168	163884	50.000	ug/l	0.01
34) 1,4-Difluorobenzene	8.622	114	278478	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	213324	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.352	152	75609	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.073	65	83592	46.671	ug/l	0.01
Spiked Amount 50.000	Range 50 - 163		Recovery = 93.340%			
35) Dibromofluoromethane	7.646	113	81440	48.998	ug/l	0.01
Spiked Amount 50.000	Range 54 - 147		Recovery = 98.000%			
50) Toluene-d8	10.115	98	324899	47.728	ug/l	0.01
Spiked Amount 50.000	Range 58 - 134		Recovery = 95.460%			
62) 4-Bromofluorobenzene	12.407	95	78682	36.466	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 72.940%			
Target Compounds						Qvalue
16) Acetone	3.879	43	5169	15.391	ug/l #	88

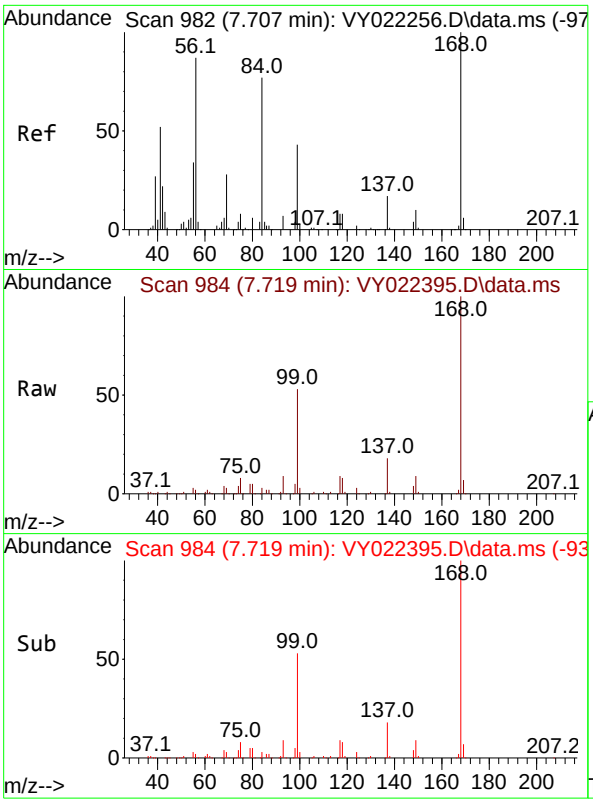
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052225\
Data File : VY022395.D
Acq On : 22 May 2025 14:55
Operator : SY/MD
Sample : Q2074-07
Misc : 6.04g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-40

Quant Time: May 23 03:38:26 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



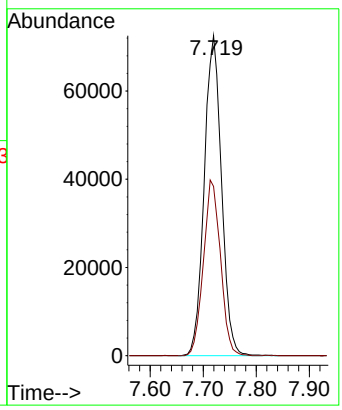


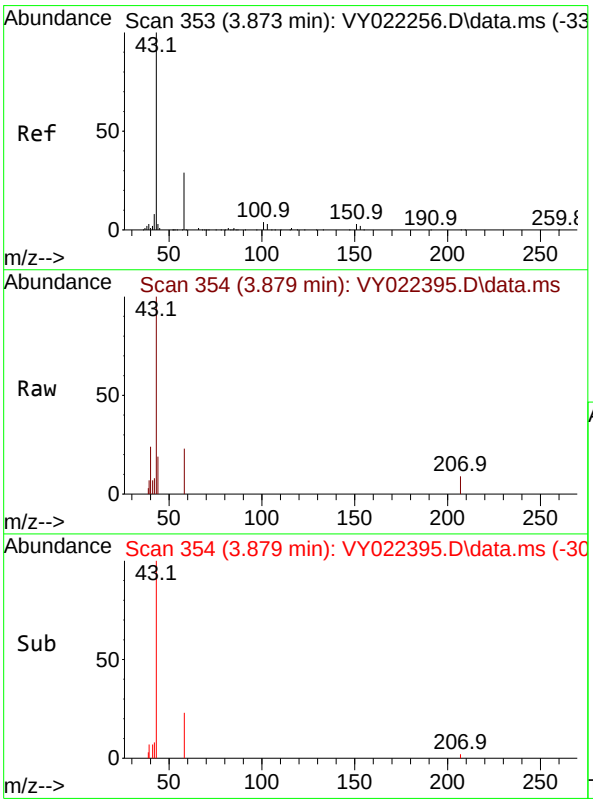
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.719 min Scan# 9
Delta R.T. 0.012 min
Lab File: VY022395.D
Acq: 22 May 2025 14:55

Instrument :
MSVOA_Y
ClientSampleId :
TP-40

Tgt Ion:168 Resp: 163884

Ion	Ratio	Lower	Upper
168	100		
99	52.9	44.2	66.4

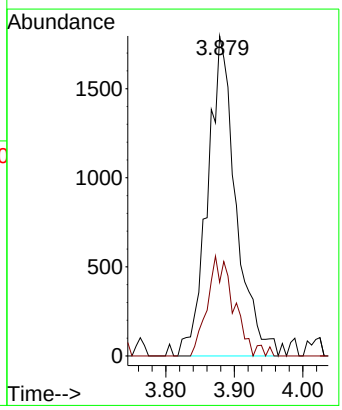




#16
Acetone
Concen: 15.391 ug/l
RT: 3.879 min Scan# 354
Delta R.T. 0.006 min
Lab File: VY022395.D
Acq: 22 May 2025 14:55

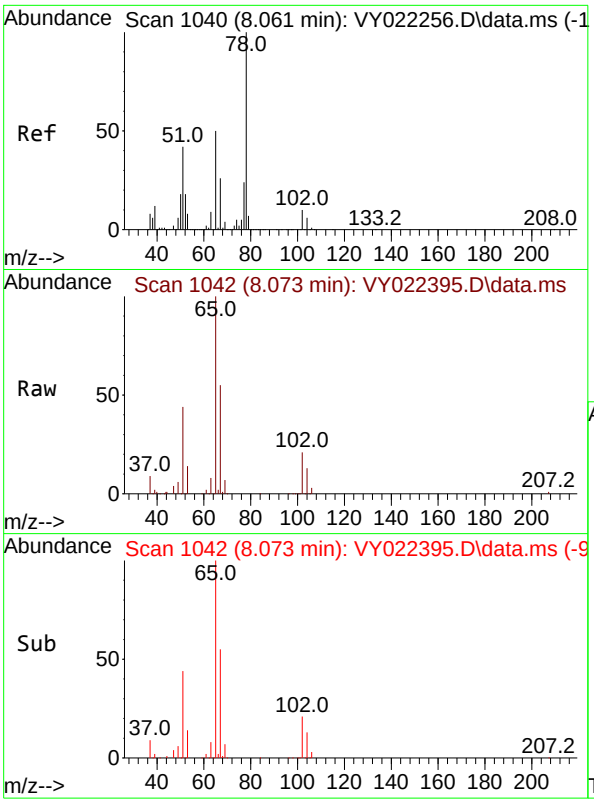
Tgt Ion: 43 Resp: 5169

Ion	Ratio	Lower	Upper
43	100		
58	23.1	23.6	35.4#



5

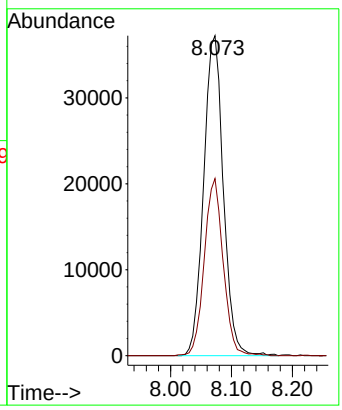
Instrument :
MSVOA_Y
ClientSampleId :
TP-40

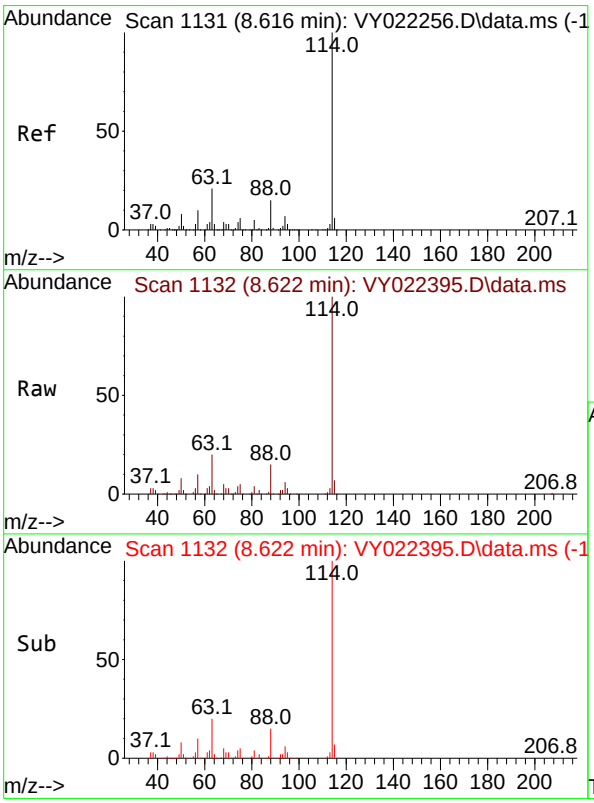


#33
1,2-Dichloroethane-d4
Concen: 46.671 ug/l
RT: 8.073 min Scan# 1
Delta R.T. 0.012 min
Lab File: VY022395.D
Acq: 22 May 2025 14:55

Tgt Ion: 65 Resp: 83592

Ion	Ratio	Lower	Upper
65	100		
67	53.2	0.0	104.6

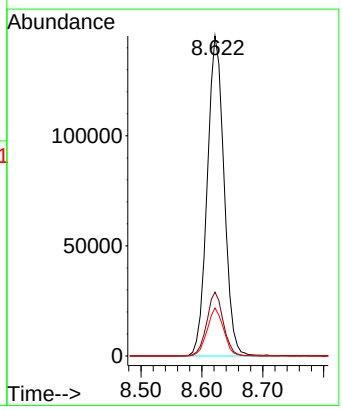




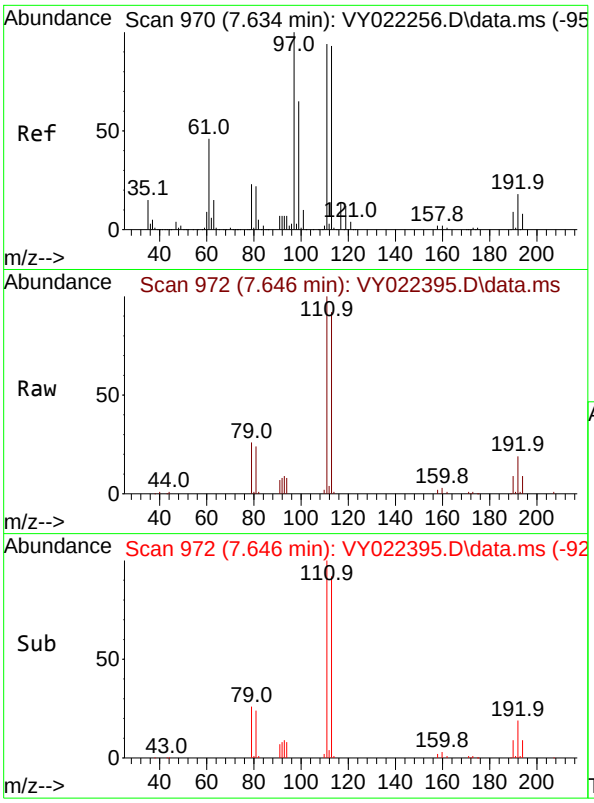
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.622 min Scan# 1132
Delta R.T. 0.006 min
Lab File: VY022395.D
Acq: 22 May 2025 14:55

Tgt Ion:114 Resp: 278478

Ion	Ratio	Lower	Upper
114	100		
63	19.9	0.0	41.0
88	15.0	0.0	29.4



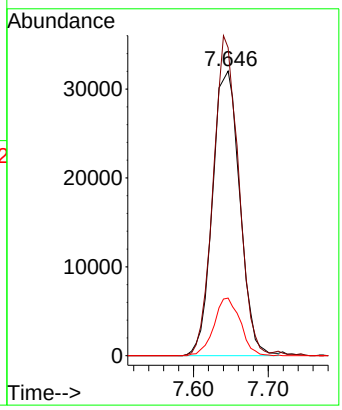
Instrument :
MSVOA_Y
ClientSampleId :
TP-40

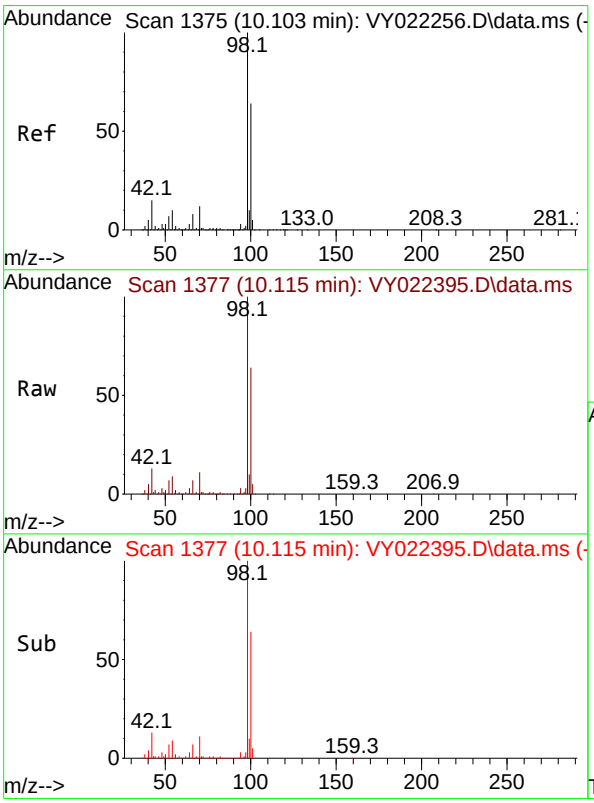


#35
Dibromofluoromethane
Concen: 48.998 ug/l
RT: 7.646 min Scan# 9
Delta R.T. 0.012 min
Lab File: VY022395.D
Acq: 22 May 2025 14:55

Tgt Ion:113 Resp: 81440

Ion	Ratio	Lower	Upper
113	100		
111	104.2	82.6	123.8
192	19.6	15.2	22.8

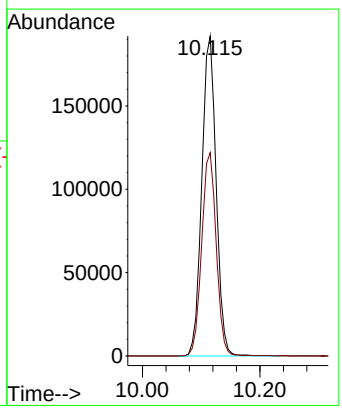


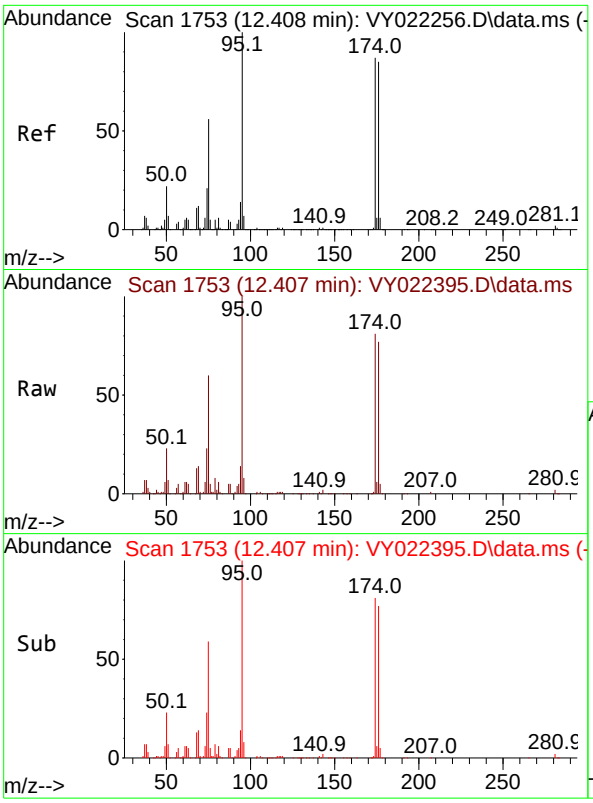


#50
Toluene-d8
Concen: 47.728 ug/l
RT: 10.115 min Scan# 1377
Delta R.T. 0.012 min
Lab File: VY022395.D
Acq: 22 May 2025 14:55

Tgt Ion: 98 Resp: 324899

Ion	Ratio	Lower	Upper
98	100		
100	64.4	51.8	77.8



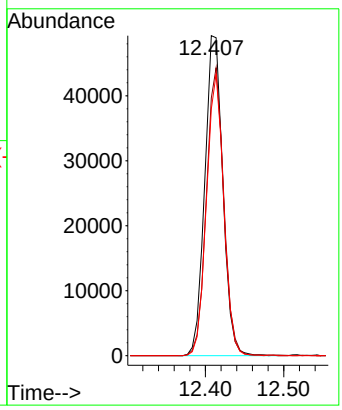


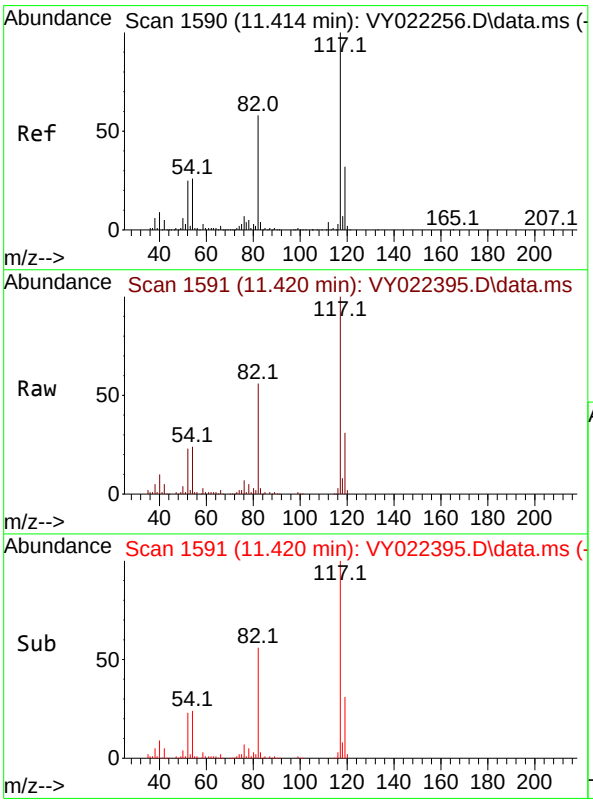
#62
4-Bromofluorobenzene
Concen: 36.466 ug/l
RT: 12.407 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022395.D
Acq: 22 May 2025 14:55

Instrument :
MSVOA_Y
ClientSampleId :
TP-40

Tgt Ion: 95 Resp: 78682

Ion	Ratio	Lower	Upper
95	100		
174	87.1	0.0	166.8
176	83.9	0.0	160.8

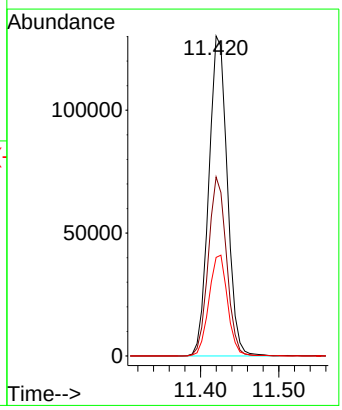


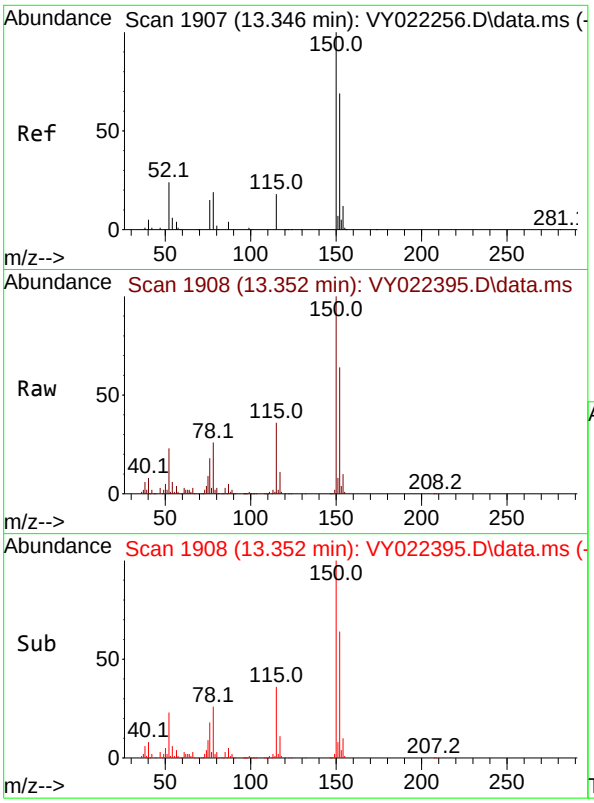


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 1591
Delta R.T. 0.006 min
Lab File: VY022395.D
Acq: 22 May 2025 14:55

Tgt Ion:117 Resp: 213324

Ion	Ratio	Lower	Upper
117	100		
82	56.0	46.6	70.0
119	30.8	25.8	38.6



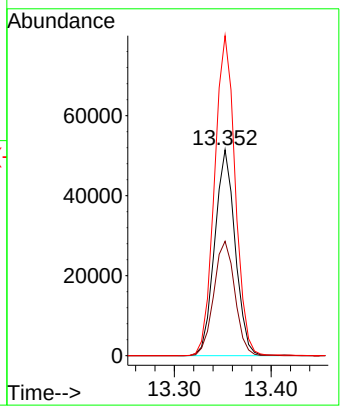


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.352 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022395.D
Acq: 22 May 2025 14:55

Instrument :
MSVOA_Y
ClientSampleId :
TP-40

Tgt Ion:152 Resp: 75609

Ion	Ratio	Lower	Upper
152	100		
115	57.3	29.4	88.2
150	157.1	0.0	353.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052225\
Data File : VY022395.D
Acq On : 22 May 2025 14:55
Operator : SY/MD
Sample : Q2074-07
Misc : 6.04g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-40

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: VY022395.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.086	52	60	63	rBV3	5123	13387	1.53%	0.311%
2	2.482	120	125	126	rBV5	8652	12436	1.42%	0.289%
3	4.628	467	477	486	rBV4	5907	18635	2.12%	0.433%
4	7.646	962	972	977	rBV	115241	282015	32.13%	6.548%
5	7.719	977	984	995	rVB	212621	492650	56.12%	11.439%
6	8.073	1030	1042	1053	rBV	110657	248574	28.32%	5.772%
7	8.622	1121	1132	1145	rBV	341033	656420	74.78%	15.242%
8	10.115	1369	1377	1385	rBV	511191	877795	100.00%	20.382%
9	11.420	1584	1591	1603	rVB	424613	691740	78.80%	16.062%
10	12.414	1744	1754	1763	rBV	283190	458537	52.24%	10.647%
11	13.352	1901	1908	1916	rVB	323831	488428	55.64%	11.341%
12	13.889	1990	1996	2003	rVB2	40867	66011	7.52%	1.533%

Sum of corrected areas: 4306628

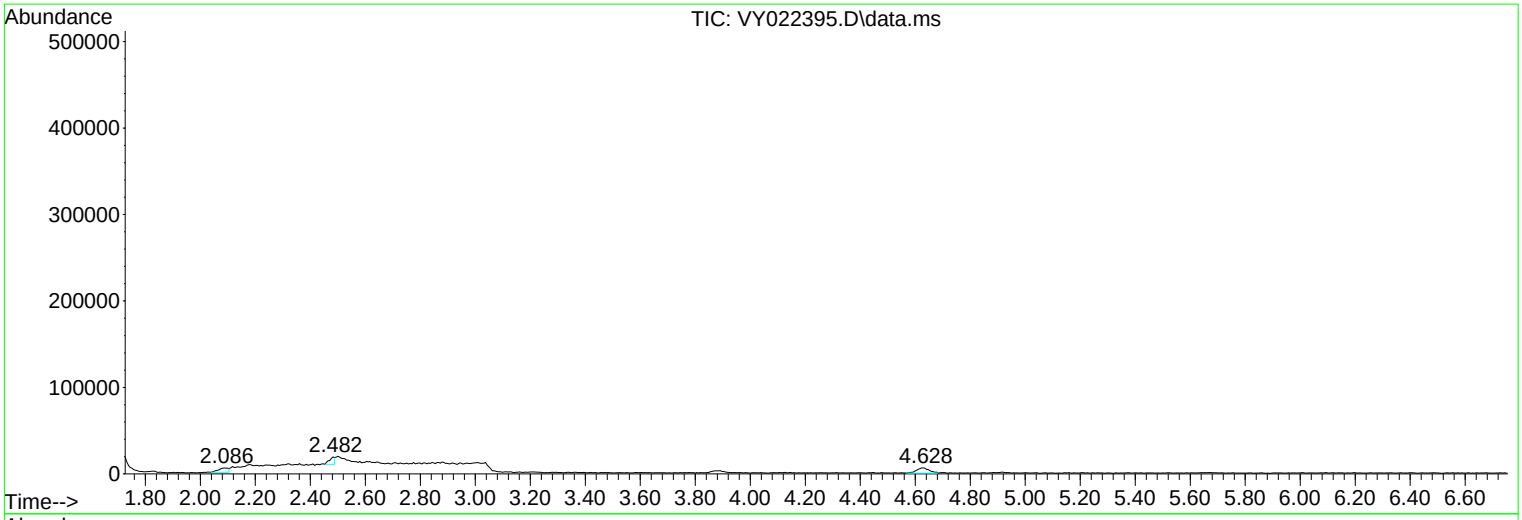
Sample Results: **VY022395.D**

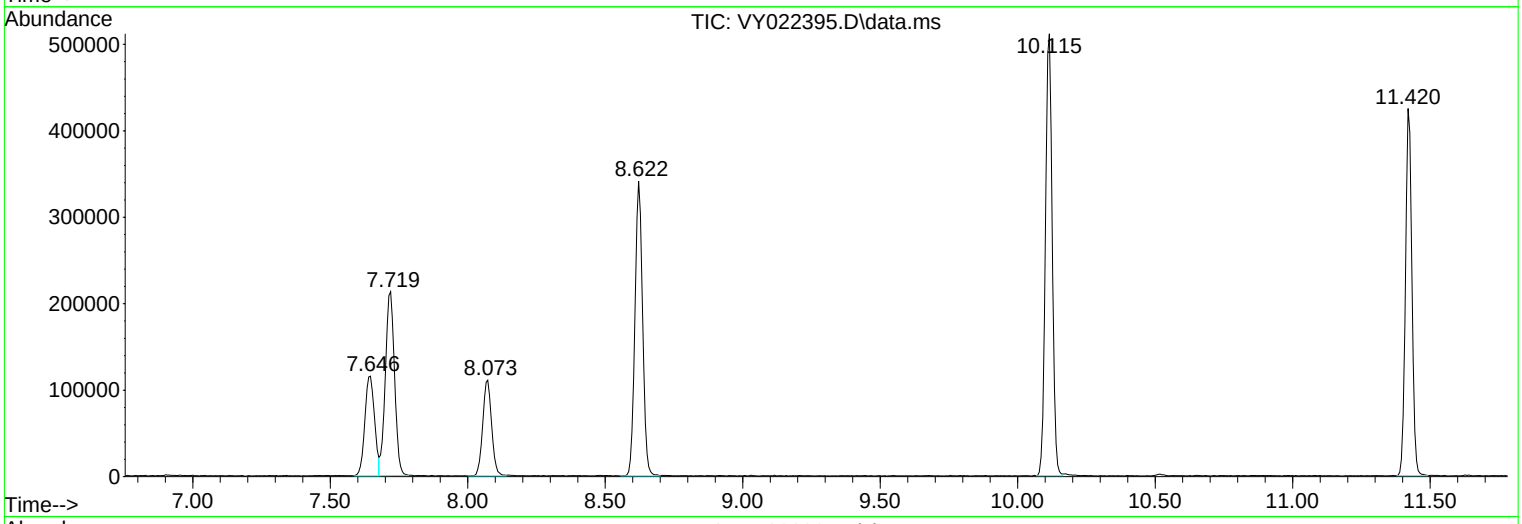
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052225\
Data File : VY022395.D
Acq On : 22 May 2025 14:55
Operator : SY/MD
Sample : Q2074-07
Misc : 6.04g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 17 Sample Multiplier: 1

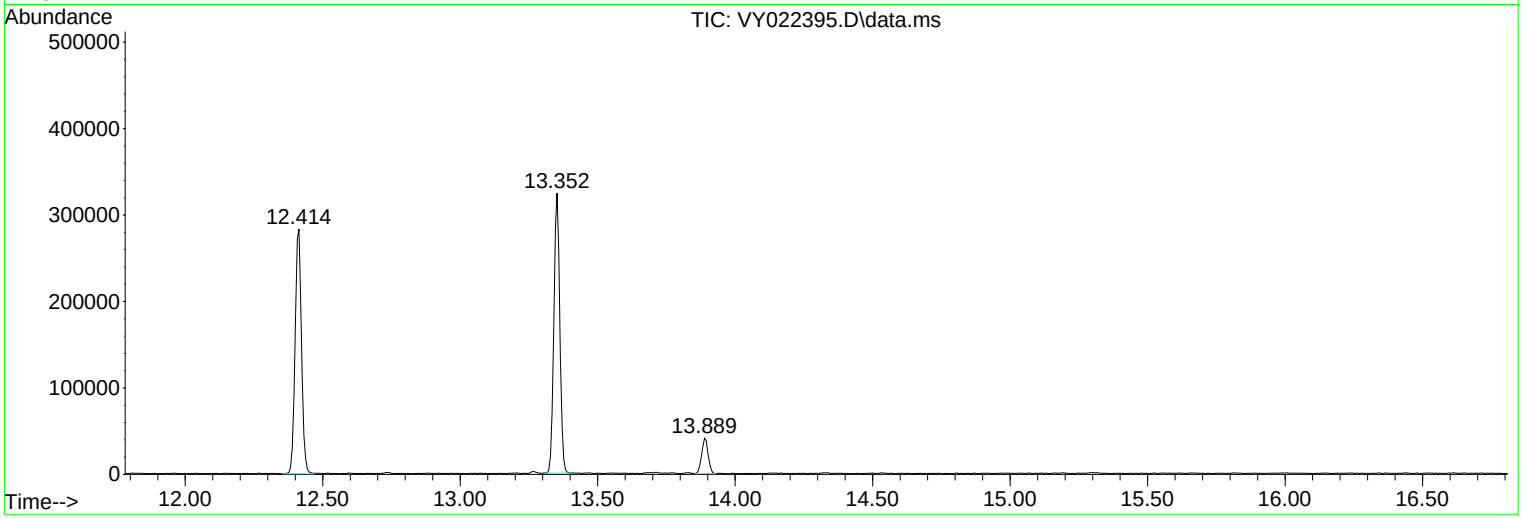
Instrument :
MSVOA_Y
ClientSampleId :
TP-40

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 : VY022395.D
Acq On : 22 May 2025 14:55
Operator : SY/MD
Sample : Q2074-07
Misc : 6.04g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-40

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 : VY022395.D
Acq On : 22 May 2025 14:55
Operator : SY/MD
Sample : Q2074-07
Misc : 6.04g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-40

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 : VY022396.D
Acq On : 22 May 2025 15:19
Operator : SY/MD
Sample : Q2074-08
Misc : 5.77g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-18

Quant Time: May 23 03:38:47 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

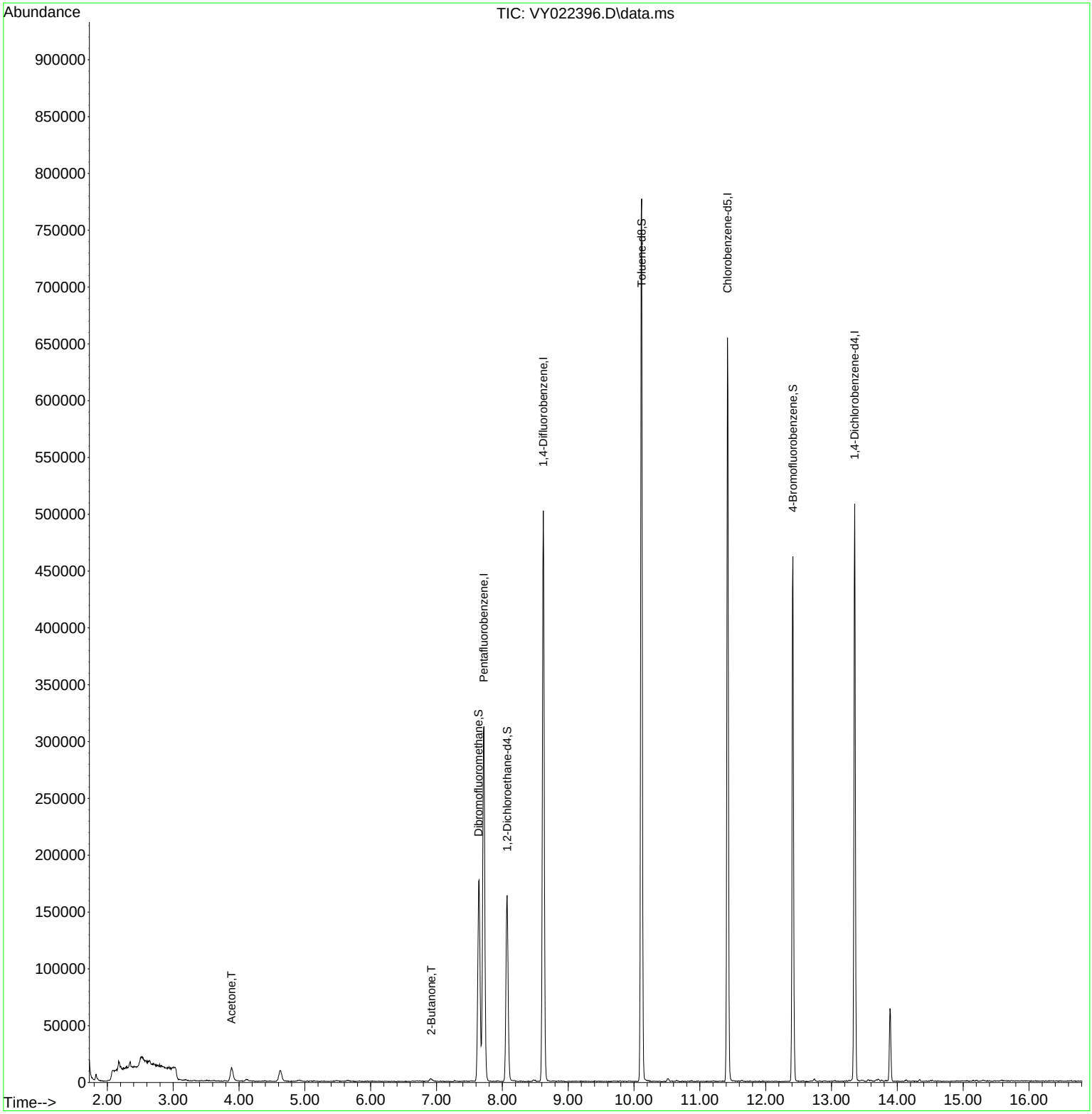
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.719	168	236909	50.000	ug/l	0.01
34) 1,4-Difluorobenzene	8.622	114	424090	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	327971	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.352	152	117014	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.073	65	121510	46.930	ug/l	0.01
Spiked Amount 50.000	Range 50 - 163		Recovery = 93.860%			
35) Dibromofluoromethane	7.640	113	122812	48.519	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 97.040%			
50) Toluene-d8	10.115	98	496981	47.940	ug/l	0.01
Spiked Amount 50.000	Range 58 - 134		Recovery = 95.880%			
62) 4-Bromofluorobenzene	12.414	95	122403	37.251	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 74.500%			
Target Compounds						Qvalue
16) Acetone	3.885	43	23151	47.686	ug/l	98
25) 2-Butanone	6.921	43	4170	5.135	ug/l #	85

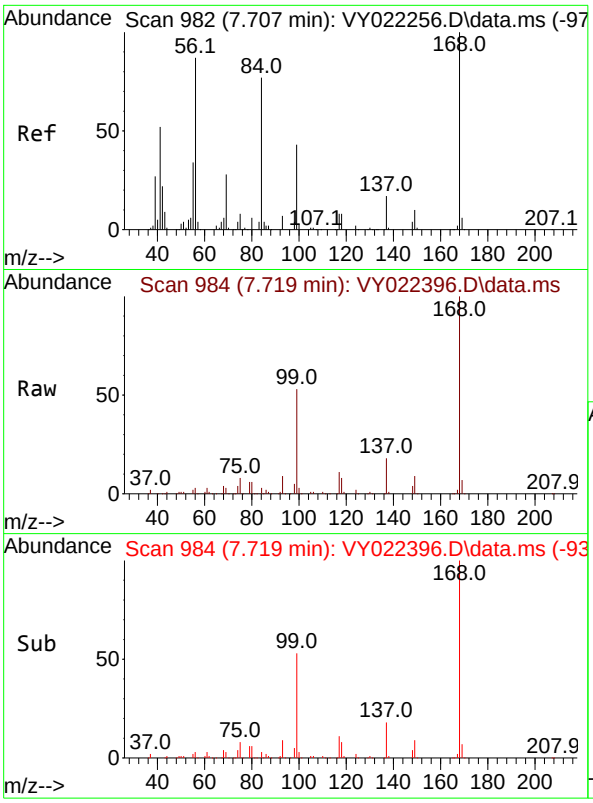
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052225\
Data File : VY022396.D
Acq On : 22 May 2025 15:19
Operator : SY/MD
Sample : Q2074-08
Misc : 5.77g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-18

Quant Time: May 23 03:38:47 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



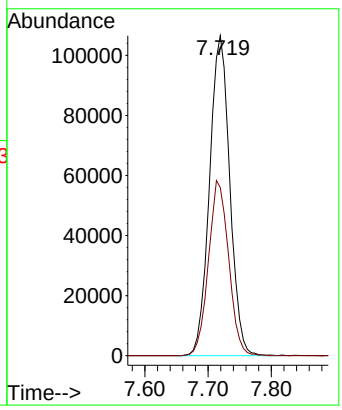


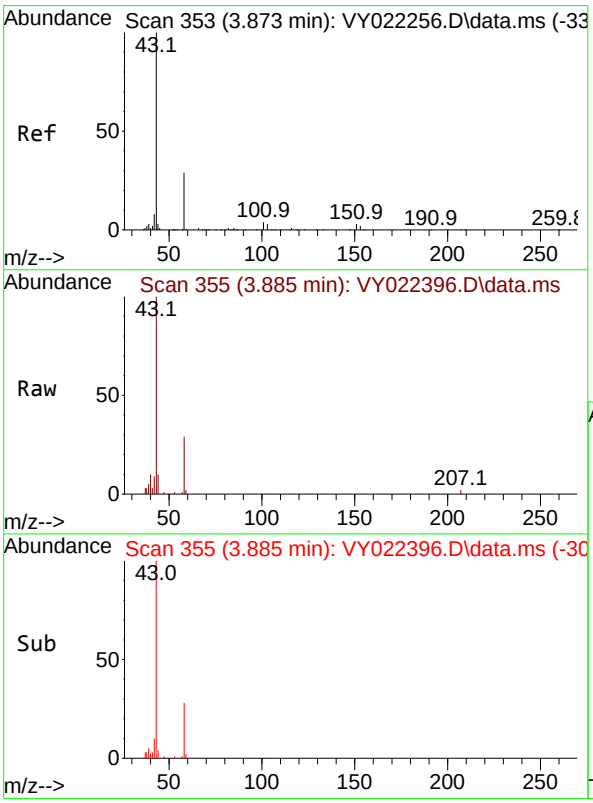
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.719 min Scan# 9
Delta R.T. 0.012 min
Lab File: VY022396.D
Acq: 22 May 2025 15:19

Instrument :
MSVOA_Y
ClientSampleId :
TP-18

Tgt Ion:168 Resp: 236909

Ion	Ratio	Lower	Upper
168	100		
99	52.6	44.2	66.4

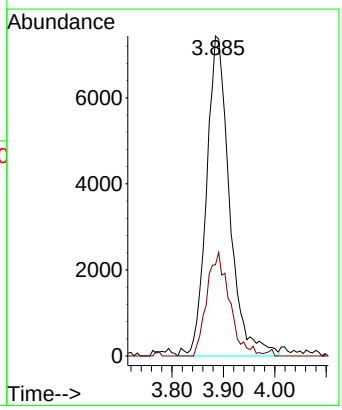


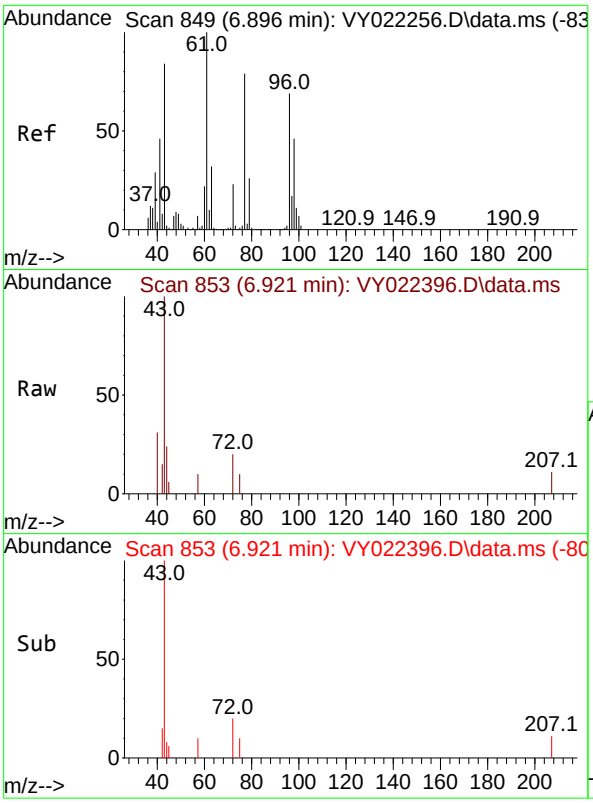


#16
Acetone
Concen: 47.686 ug/l
RT: 3.885 min Scan# 355
Delta R.T. 0.012 min
Lab File: VY022396.D
Acq: 22 May 2025 15:19

Tgt Ion: 43 Resp: 23151

Ion	Ratio	Lower	Upper
43	100		
58	28.5	23.6	35.4



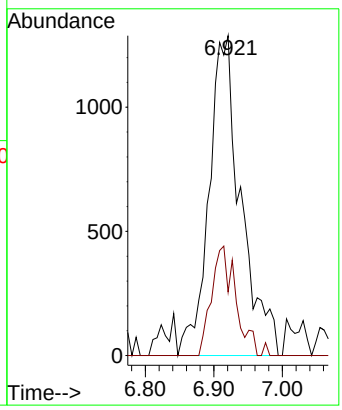


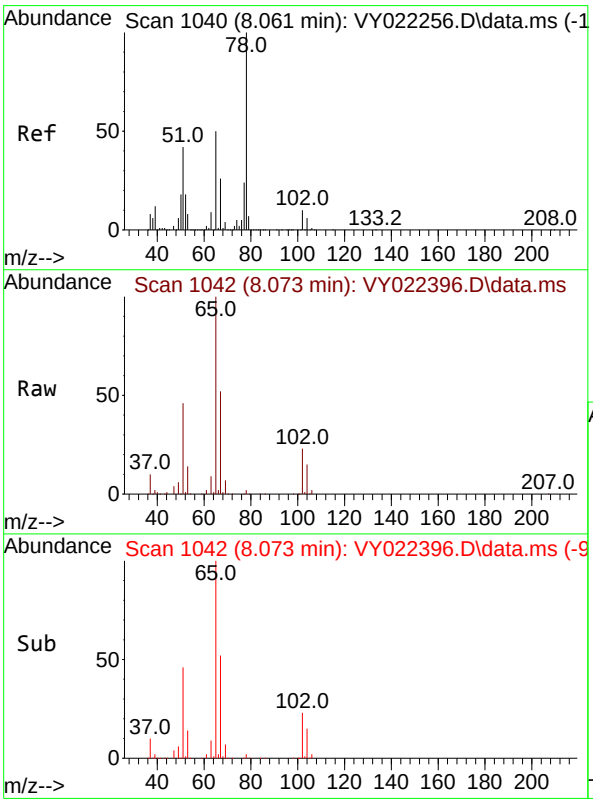
#25
2-Butanone
Concen: 5.135 ug/l
RT: 6.921 min Scan# 8
Delta R.T. 0.024 min
Lab File: VY022396.D
Acq: 22 May 2025 15:19

Instrument :
MSVOA_Y
ClientSampleId :
TP-18

Tgt Ion: 43 Resp: 4170

Ion	Ratio	Lower	Upper
43	100		
72	19.9	22.1	33.1#

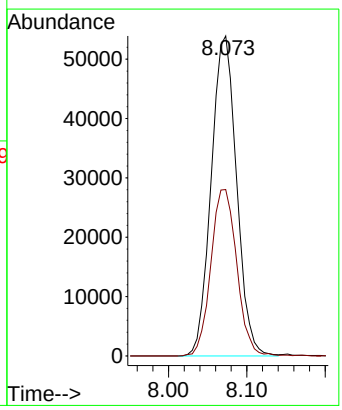


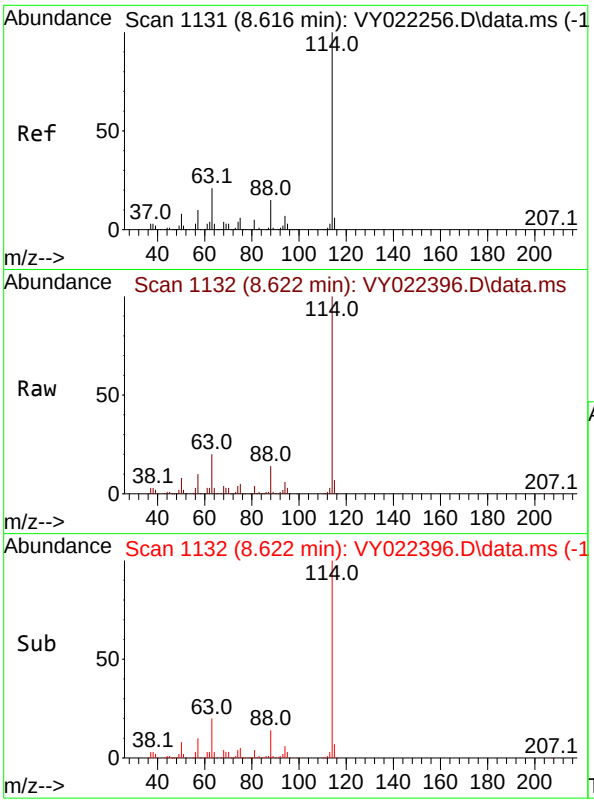


#33
1,2-Dichloroethane-d4
Concen: 46.930 ug/l
RT: 8.073 min Scan# 1042
Delta R.T. 0.012 min
Lab File: VY022396.D
Acq: 22 May 2025 15:19

Tgt Ion: 65 Resp: 121510

Ion	Ratio	Lower	Upper
65	100		
67	53.1	0.0	104.6



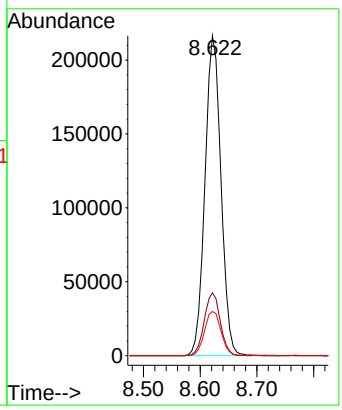


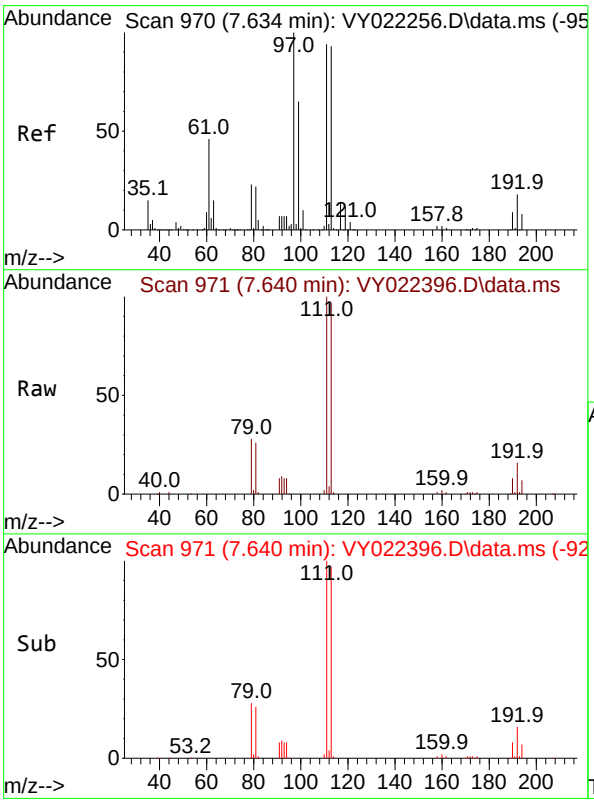
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.622 min Scan# 11
Delta R.T. 0.006 min
Lab File: VY022396.D
Acq: 22 May 2025 15:19

Instrument :
MSVOA_Y
ClientSampleId :
TP-18

Tgt Ion:114 Resp: 424090

Ion	Ratio	Lower	Upper
114	100		
63	19.6	0.0	41.0
88	13.8	0.0	29.4

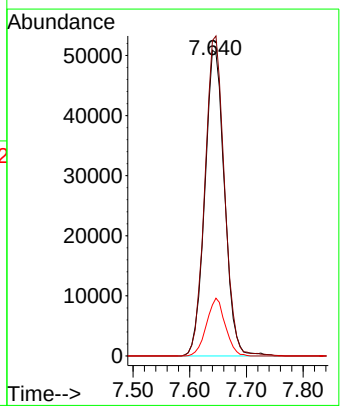


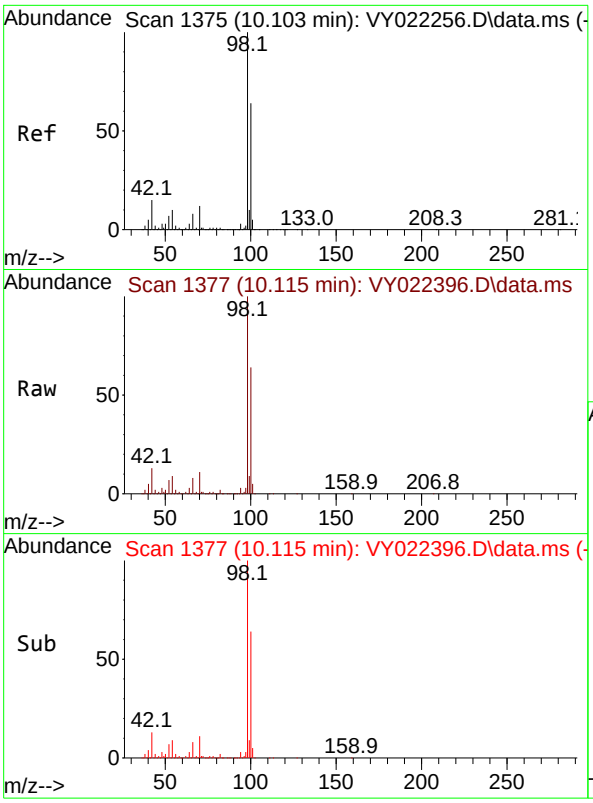


#35
Dibromofluoromethane
Concen: 48.519 ug/l
RT: 7.640 min Scan# 971
Delta R.T. 0.006 min
Lab File: VY022396.D
Acq: 22 May 2025 15:19

Tgt Ion:113 Resp: 122812

Ion	Ratio	Lower	Upper
113	100		
111	103.7	82.6	123.8
192	18.0	15.2	22.8



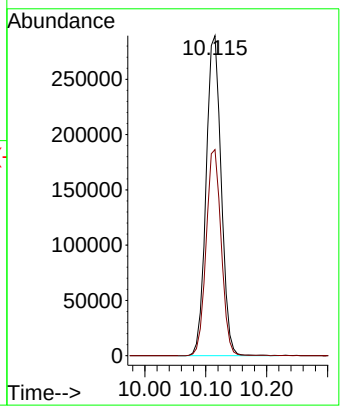


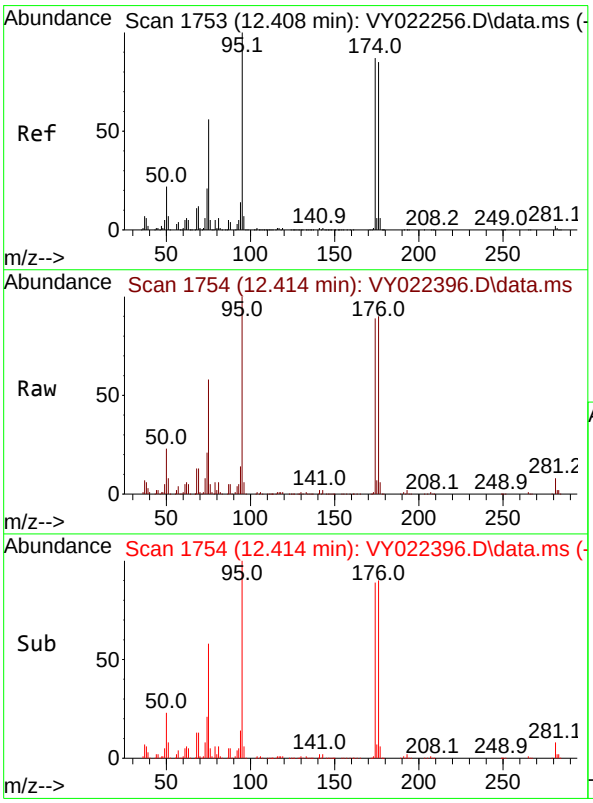
#50
Toluene-d8
Concen: 47.940 ug/l
RT: 10.115 min Scan# 1
Delta R.T. 0.012 min
Lab File: VY022396.D
Acq: 22 May 2025 15:19

Instrument :
MSVOA_Y
ClientSampleId :
TP-18

Tgt Ion: 98 Resp: 496981

Ion	Ratio	Lower	Upper
98	100		
100	64.3	51.8	77.8

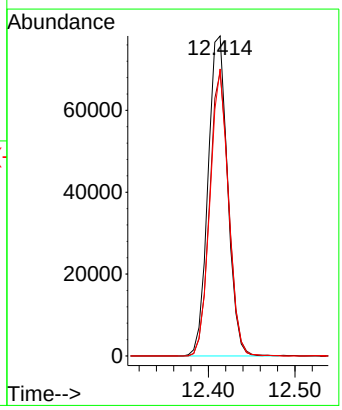


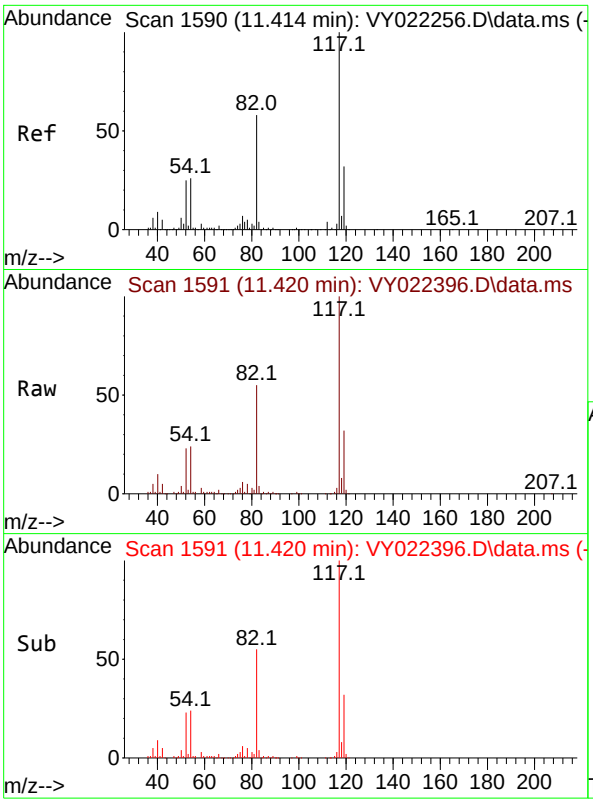


#62
4-Bromofluorobenzene
Concen: 37.251 ug/l
RT: 12.414 min Scan# 1754
Delta R.T. 0.006 min
Lab File: VY022396.D
Acq: 22 May 2025 15:19

Tgt Ion: 95 Resp: 122403

Ion	Ratio	Lower	Upper
95	100		
174	86.5	0.0	166.8
176	84.8	0.0	160.8



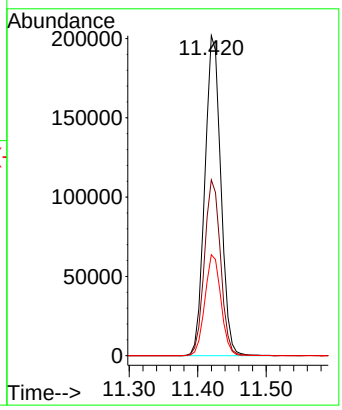


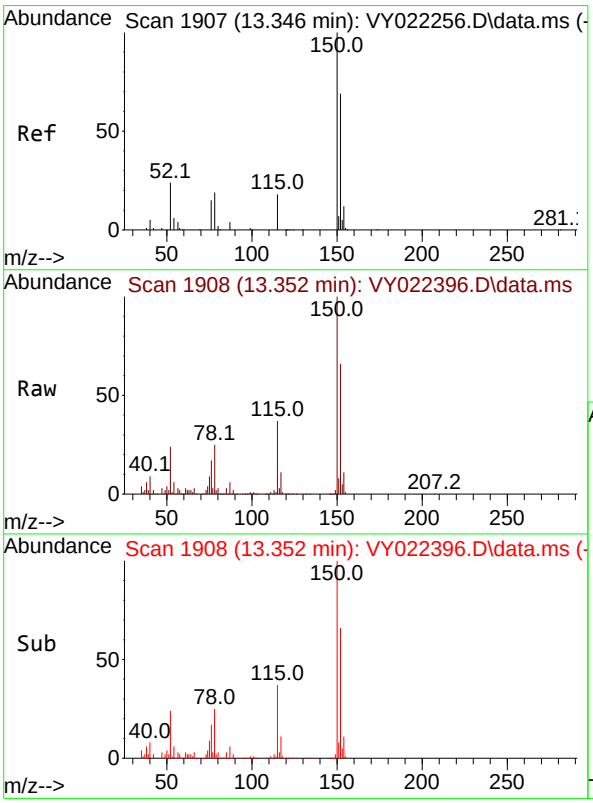
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022396.D
Acq: 22 May 2025 15:19

Instrument :
MSVOA_Y
ClientSampleId :
TP-18

Tgt Ion:117 Resp: 327971

Ion	Ratio	Lower	Upper
117	100		
82	54.9	46.6	70.0
119	31.5	25.8	38.6

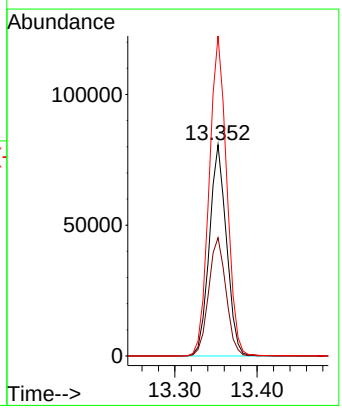




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.352 min Scan# 1908
Delta R.T. 0.006 min
Lab File: VY022396.D
Acq: 22 May 2025 15:19

Tgt Ion:152 Resp: 117014

Ion	Ratio	Lower	Upper
152	100		
115	56.8	29.4	88.2
150	155.2	0.0	353.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052225\
Data File : VY022396.D
Acq On : 22 May 2025 15:19
Operator : SY/MD
Sample : Q2074-08
Misc : 5.77g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-18

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: VY022396.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.086	45	60	63	rBV6	9678	29336	2.18%	0.444%
2	2.172	70	74	78	rBV4	8470	14556	1.08%	0.220%
3	3.885	346	355	366	rBV	11969	35743	2.66%	0.541%
4	4.622	466	476	488	rBV2	9669	31713	2.36%	0.480%
5	7.646	962	972	977	rBV2	177135	421053	31.33%	6.378%
6	7.719	977	984	999	rVB	312144	711722	52.96%	10.781%
7	8.073	1031	1042	1053	rBV	163854	372626	27.73%	5.644%
8	8.622	1122	1132	1143	rBV	502205	988644	73.56%	14.975%
9	10.115	1368	1377	1390	rBV	776765	1343963	100.00%	20.358%
10	11.420	1584	1591	1603	rBV	654565	1061231	78.96%	16.075%
11	12.414	1745	1754	1763	rBV2	462086	734381	54.64%	11.124%
12	13.352	1896	1908	1916	rBV	507812	755129	56.19%	11.438%
13	13.889	1990	1996	2005	rVB2	64076	101688	7.57%	1.540%

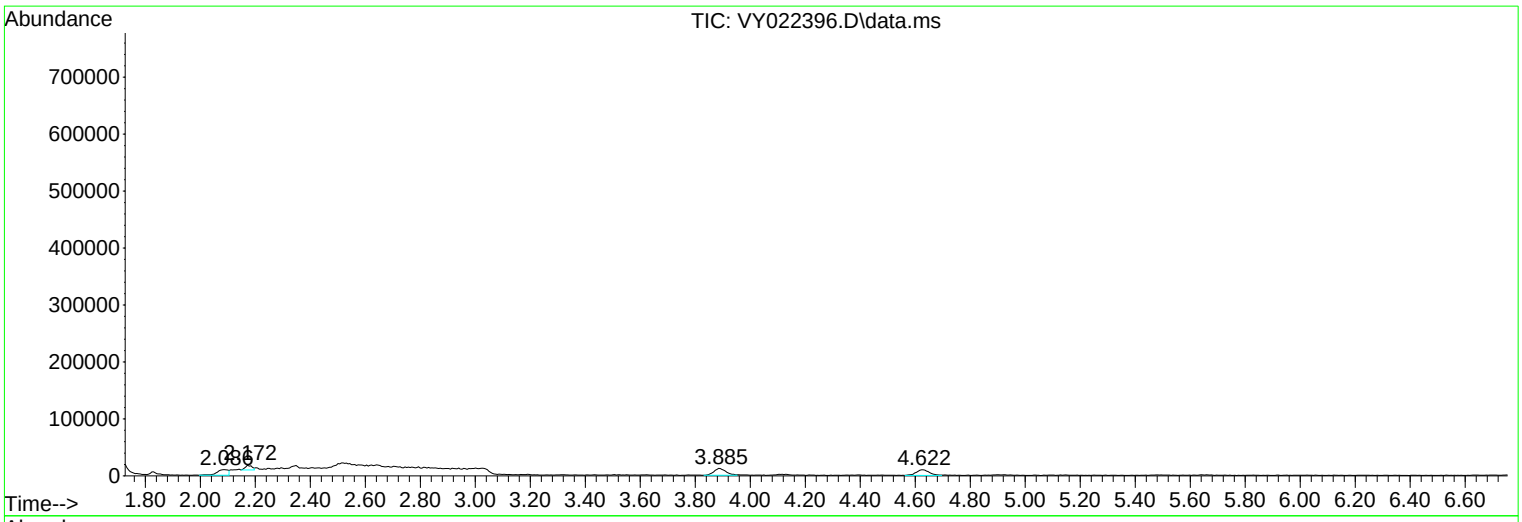
Sum of corrected areas: 6601785

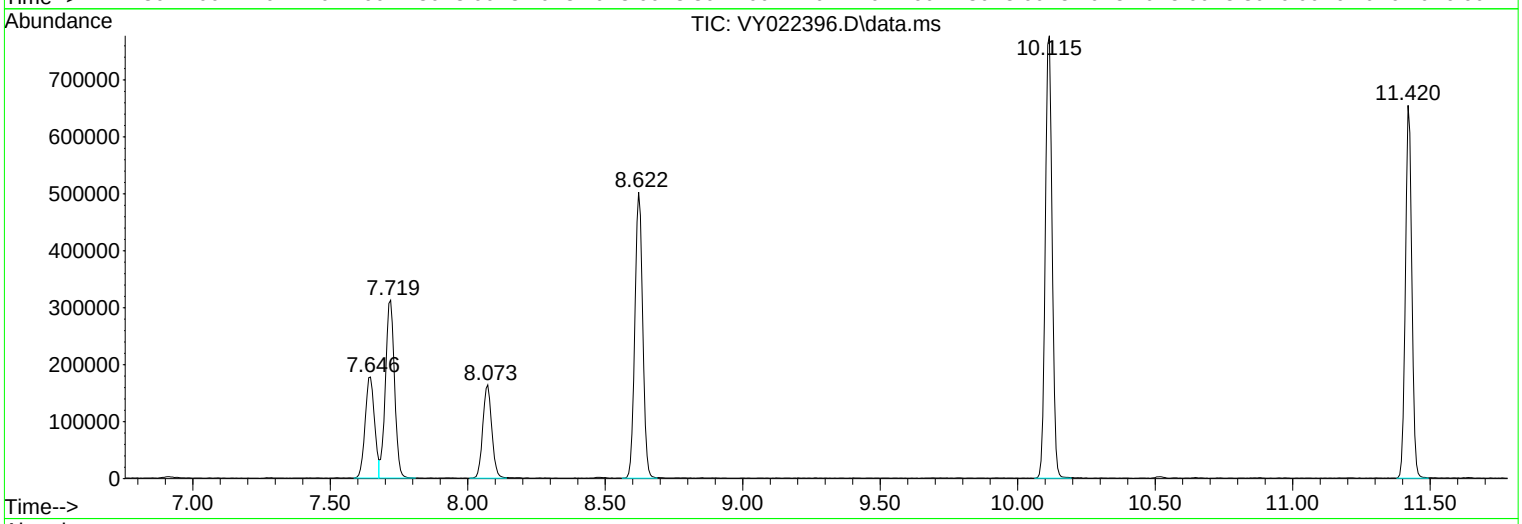
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052225\
Data File : VY022396.D
Acq On : 22 May 2025 15:19
Operator : SY/MD
Sample : Q2074-08
Misc : 5.77g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 18 Sample Multiplier: 1

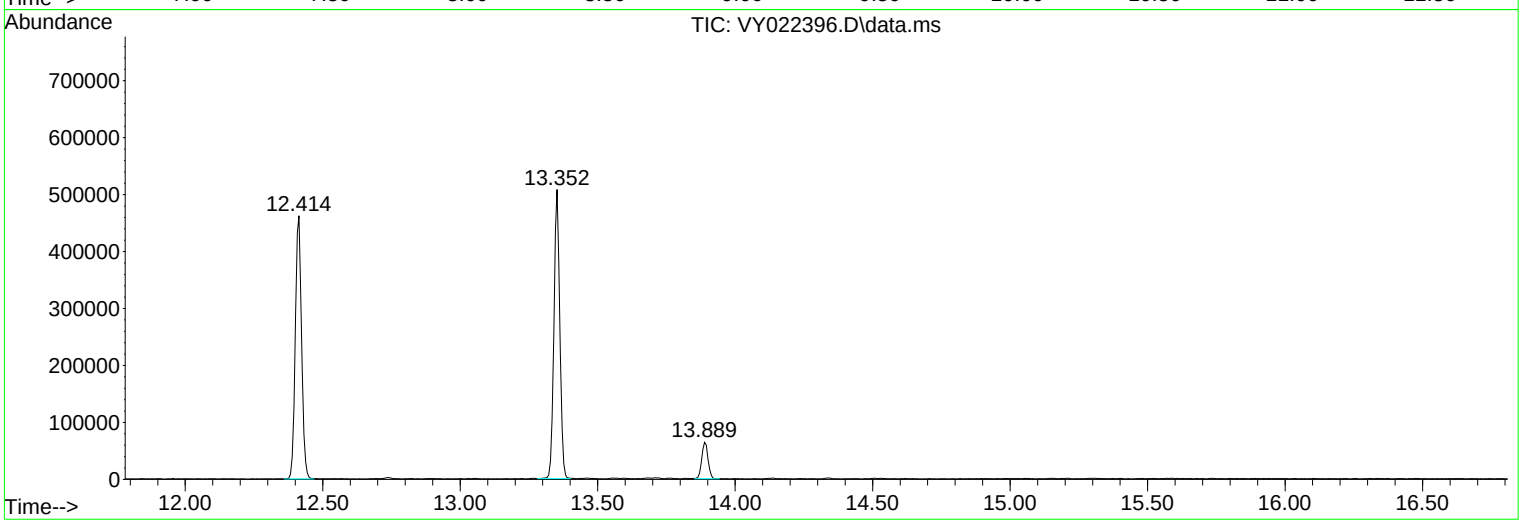
Instrument :
MSVOA_Y
ClientSampleId :
TP-18

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 : VY022396.D
Acq On : 22 May 2025 15:19
Operator : SY/MD
Sample : Q2074-08
Misc : 5.77g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-18

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 : VY022396.D
Acq On : 22 May 2025 15:19
Operator : SY/MD
Sample : Q2074-08
Misc : 5.77g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-18

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%			

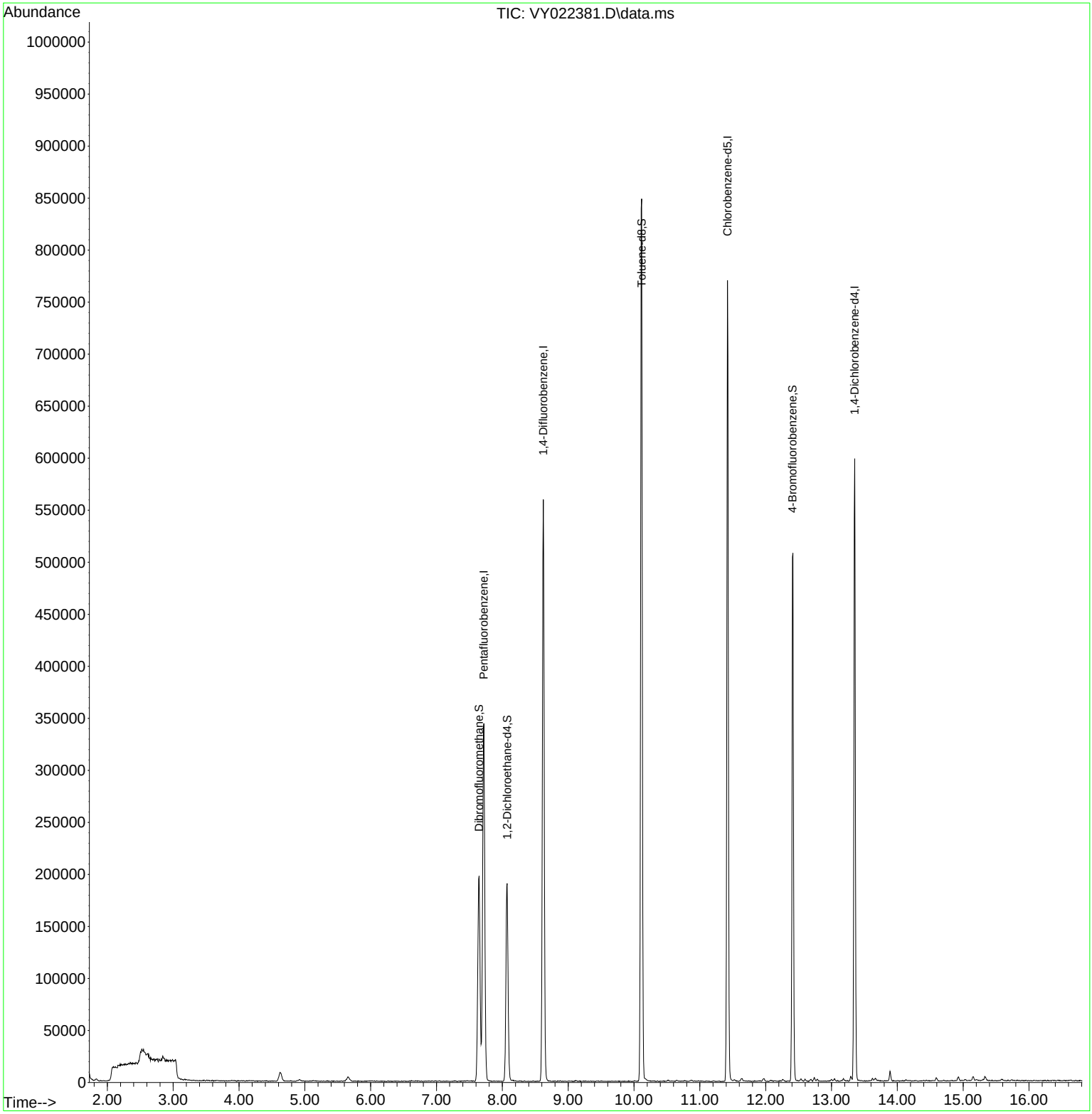
Target Compounds Qvalue

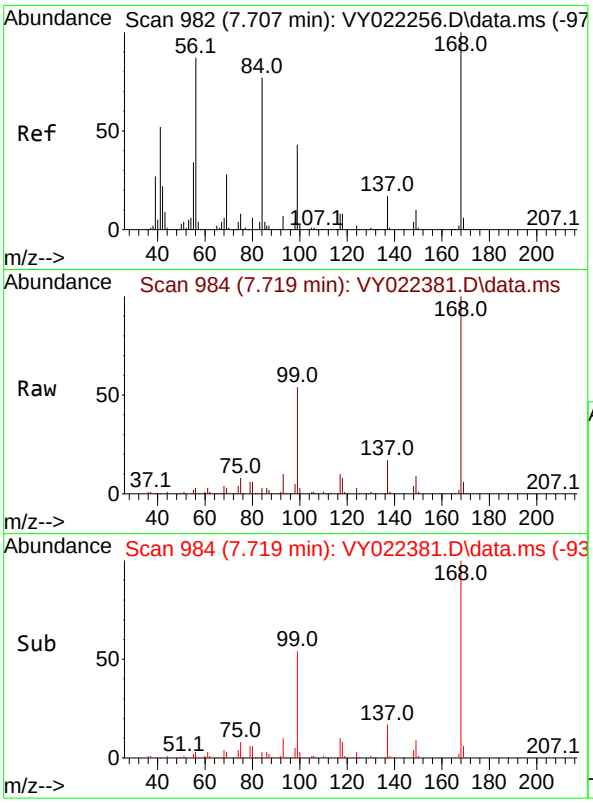
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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



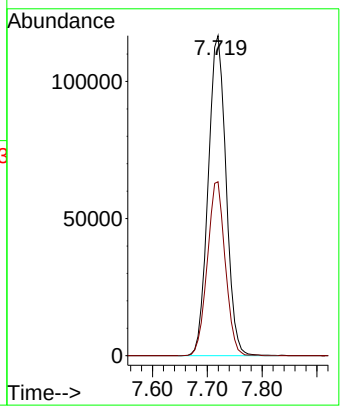


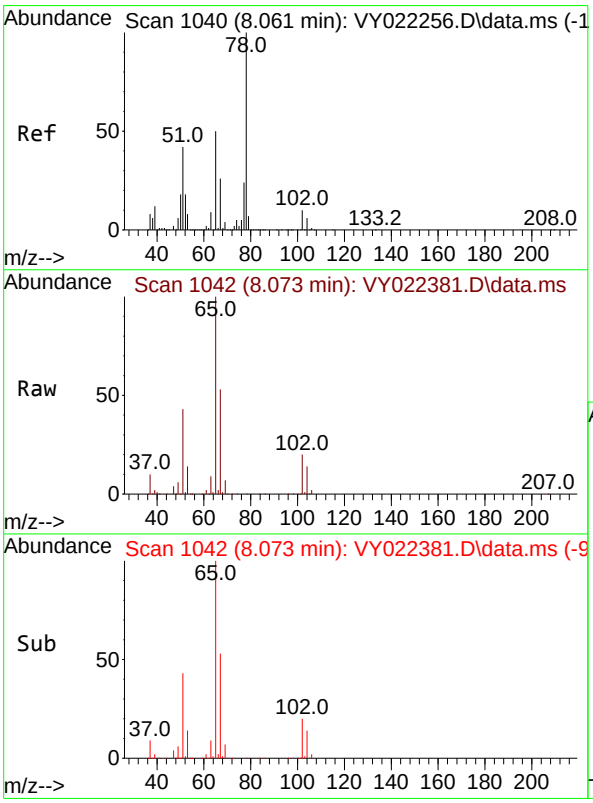
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.719 min Scan# 9
Delta R.T. 0.012 min
Lab File: VY022381.D
Acq: 22 May 2025 09:07

Instrument :
MSVOA_Y
ClientSampleId :
VY0522SBL01

Tgt Ion:168 Resp: 263712

Ion	Ratio	Lower	Upper
168	100		
99	54.4	44.2	66.4

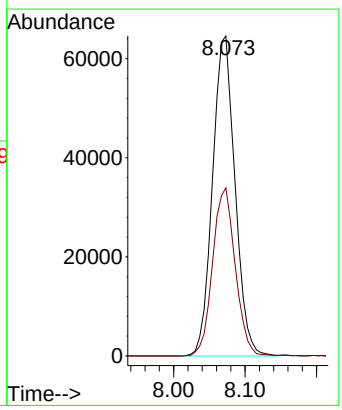


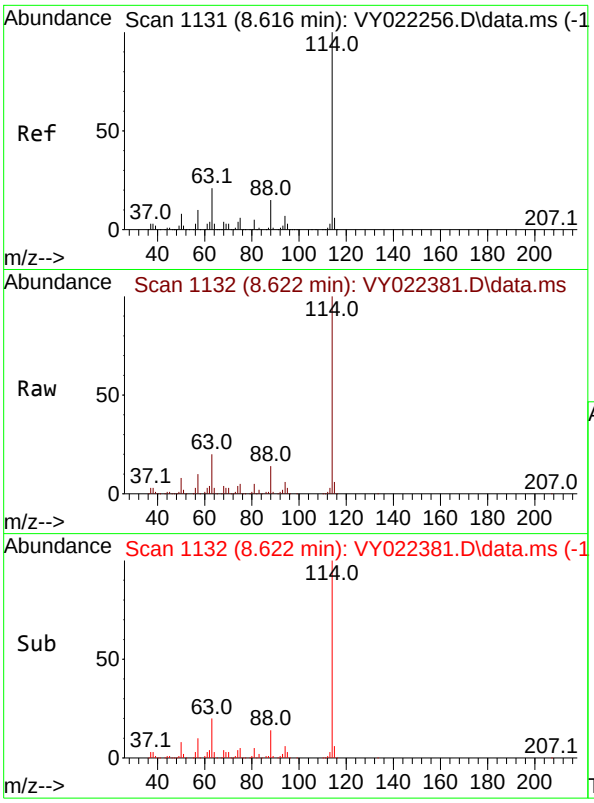


#33
1,2-Dichloroethane-d4
Concen: 48.890 ug/l
RT: 8.073 min Scan# 1042
Delta R.T. 0.012 min
Lab File: VY022381.D
Acq: 22 May 2025 09:07

Tgt Ion: 65 Resp: 140906

Ion	Ratio	Lower	Upper
65	100		
67	53.0	0.0	104.6



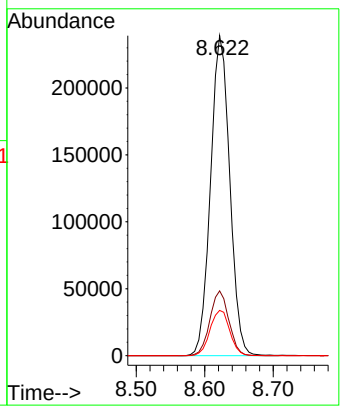


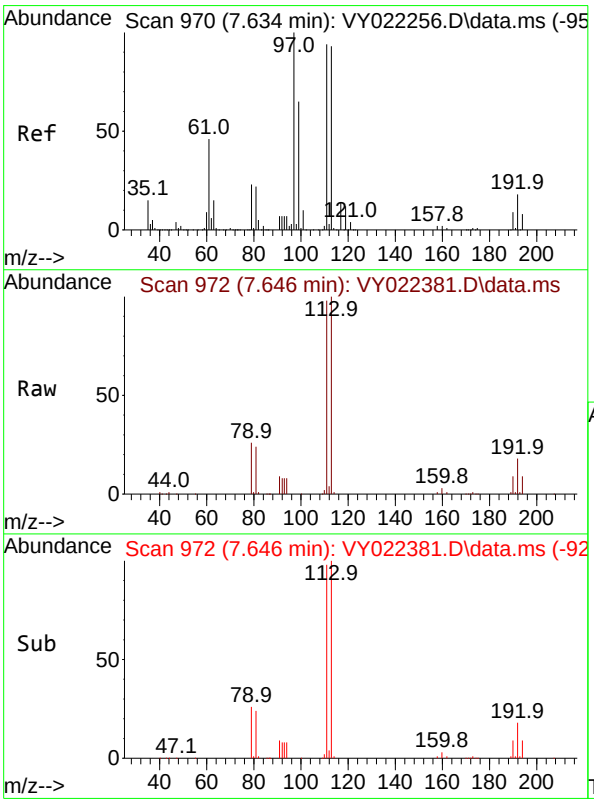
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.622 min Scan# 11
Delta R.T. 0.006 min
Lab File: VY022381.D
Acq: 22 May 2025 09:07

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

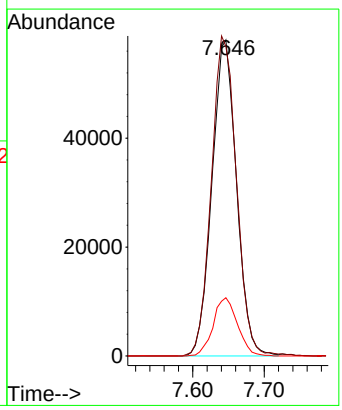


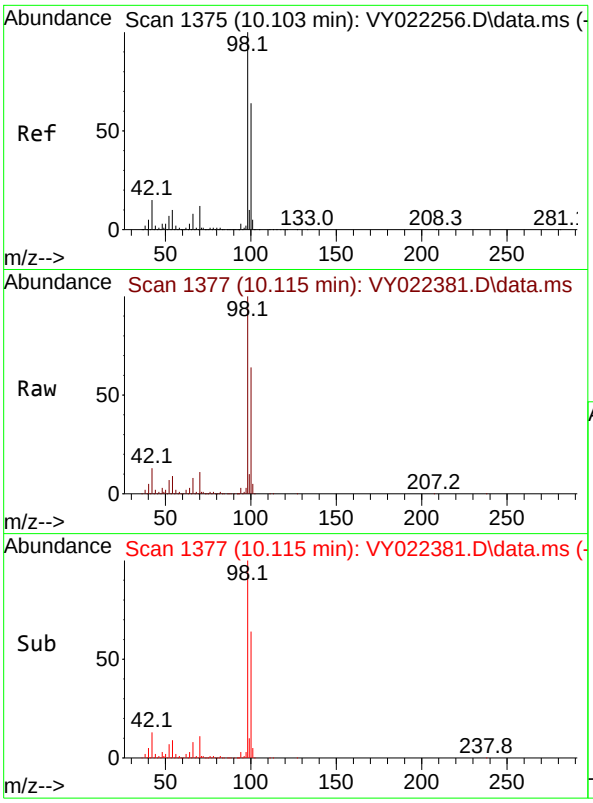


#35
Dibromofluoromethane
Concen: 49.800 ug/l
RT: 7.646 min Scan# 972
Delta R.T. 0.012 min
Lab File: VY022381.D
Acq: 22 May 2025 09:07

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



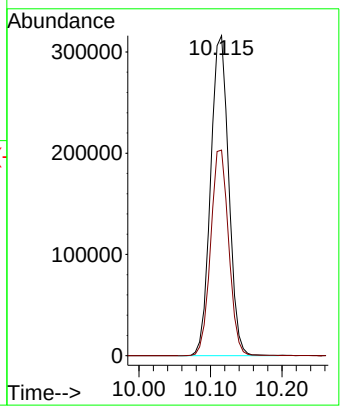


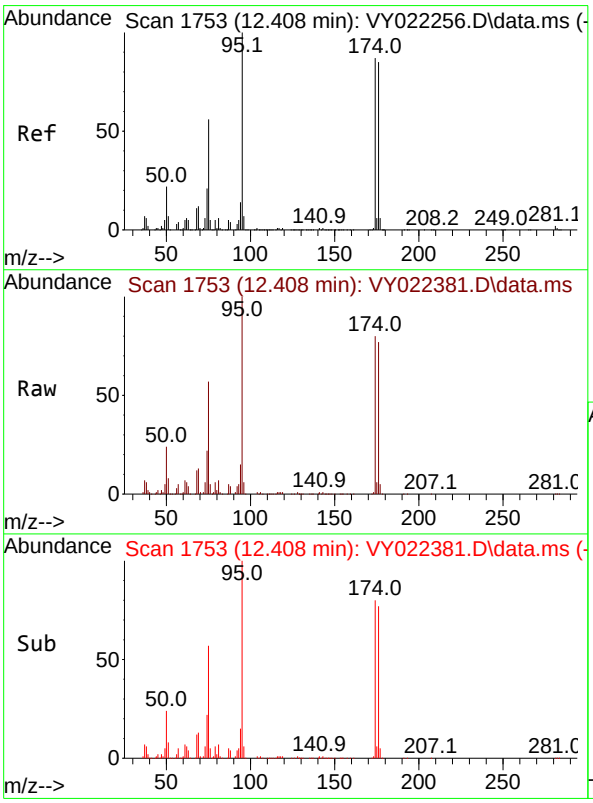
#50
Toluene-d8
Concen: 48.674 ug/l
RT: 10.115 min Scan# 1
Delta R.T. 0.012 min
Lab File: VY022381.D
Acq: 22 May 2025 09:07

Instrument :
MSVOA_Y
ClientSampleId :
VY0522SBL01

Tgt Ion: 98 Resp: 554254

Ion	Ratio	Lower	Upper
98	100		
100	64.2	51.8	77.8

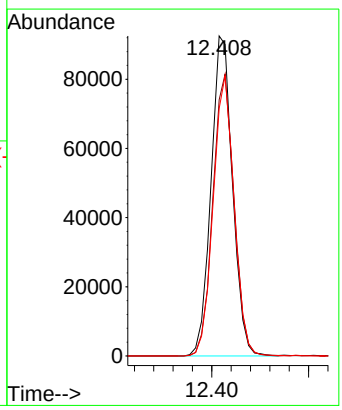


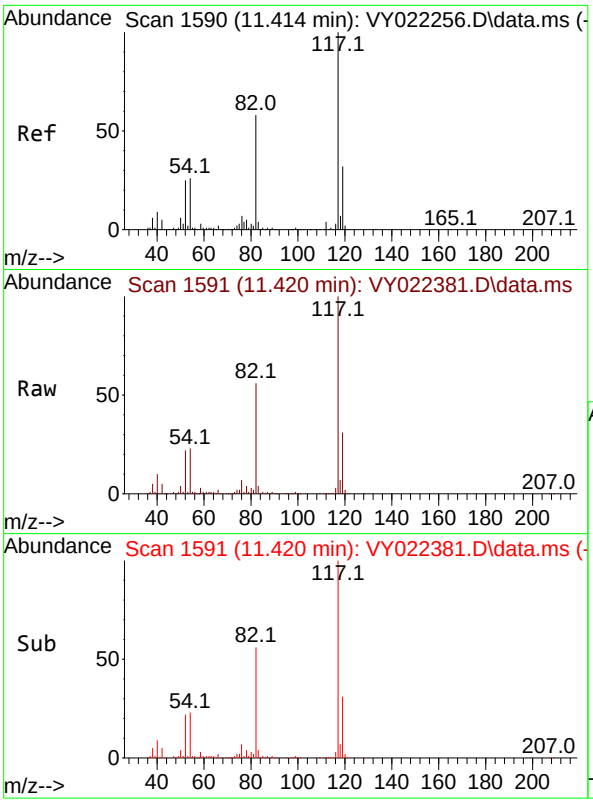


#62
4-Bromofluorobenzene
Concen: 39.525 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.000 min
Lab File: VY022381.D
Acq: 22 May 2025 09:07

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



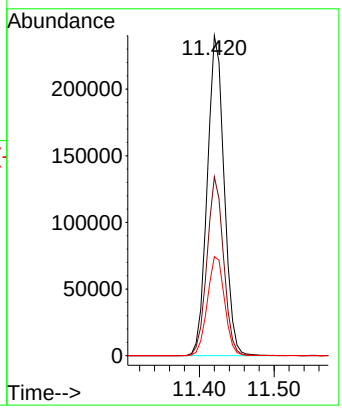


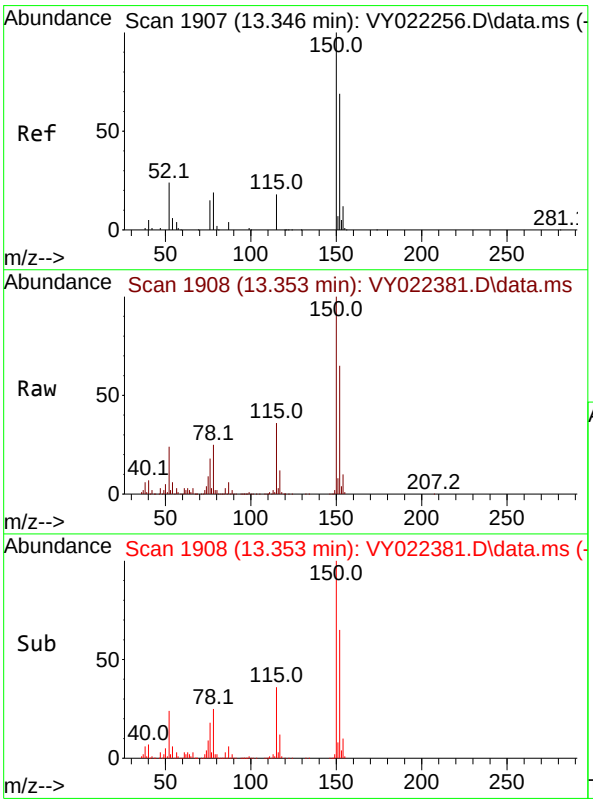
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022381.D
Acq: 22 May 2025 09:07

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

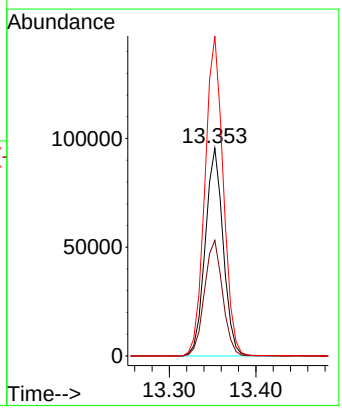




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.353 min Scan# 1908
Delta R.T. 0.006 min
Lab File: VY022381.D
Acq: 22 May 2025 09:07

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%

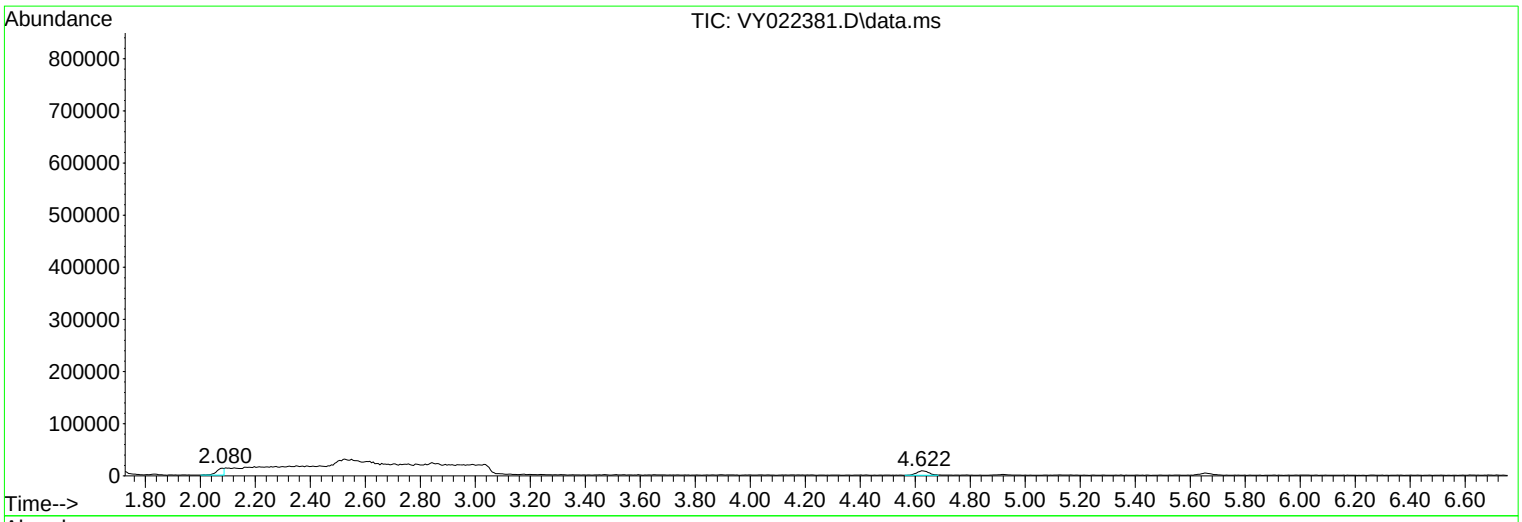
Sum of corrected areas: 7252495

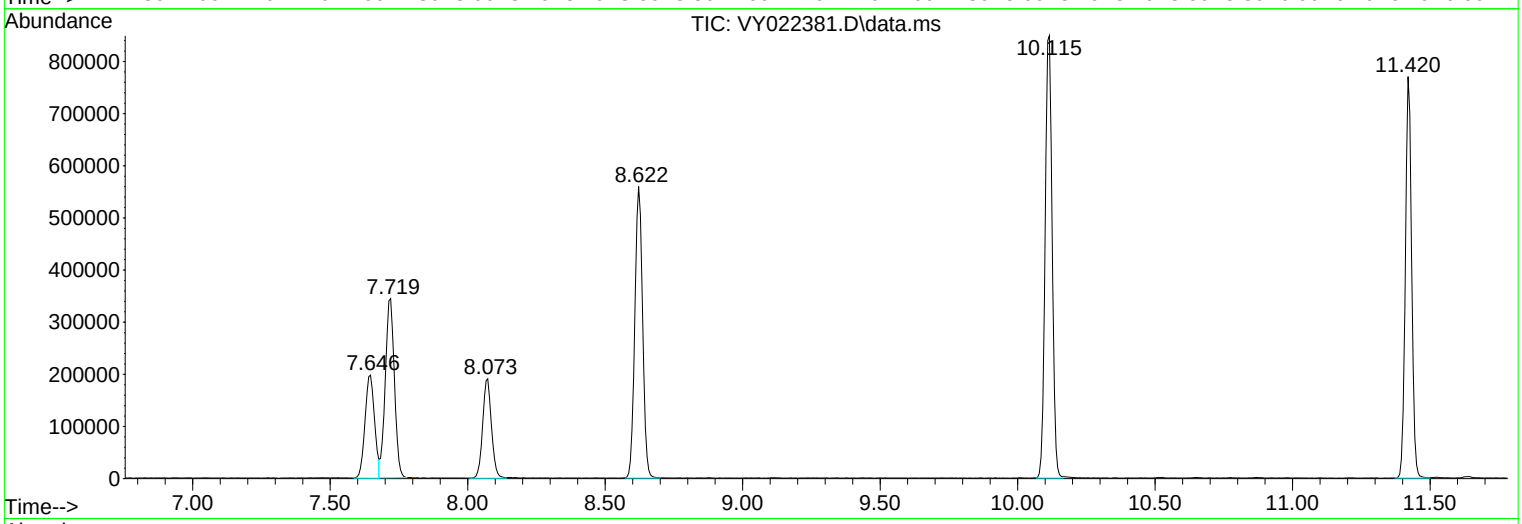
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052225\
Data File : VY022381.D
Acq On : 22 May 2025 09:07
Operator : SY/MD
Sample : VY0522SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

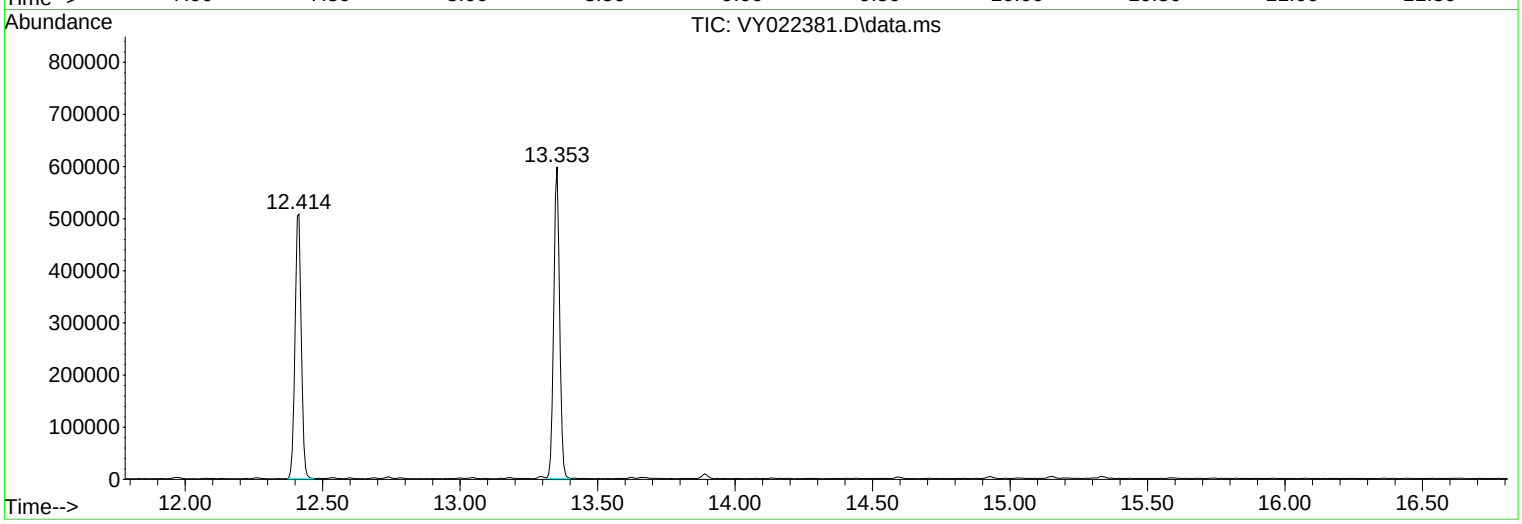
Instrument :
MSVOA_Y
ClientSampleId :
VY0522SBL01

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\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

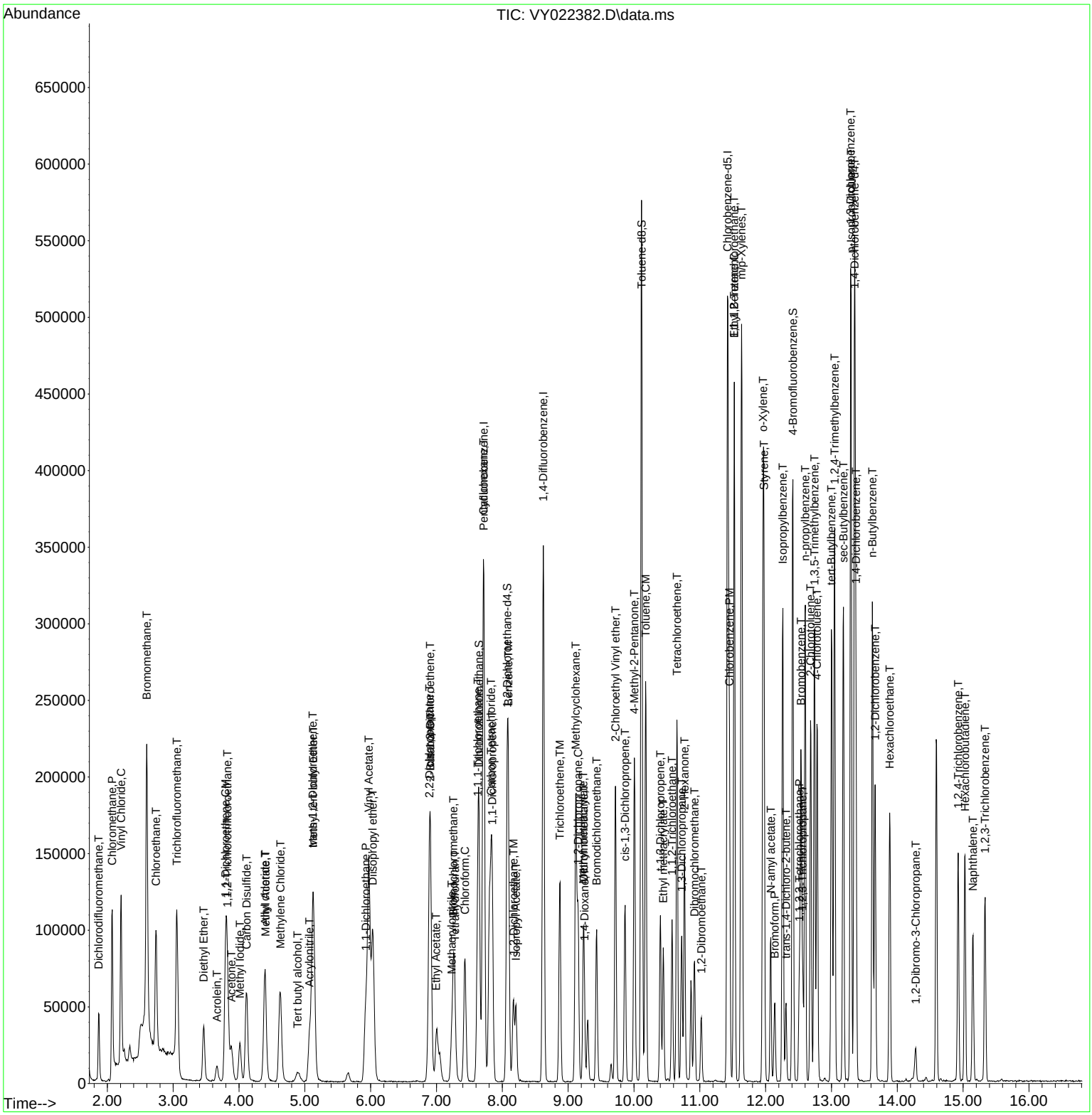
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052225\
Data File : VY022382.D
Acq On : 22 May 2025 09:36
Operator : SY/MD
Sample : VY0522SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

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\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

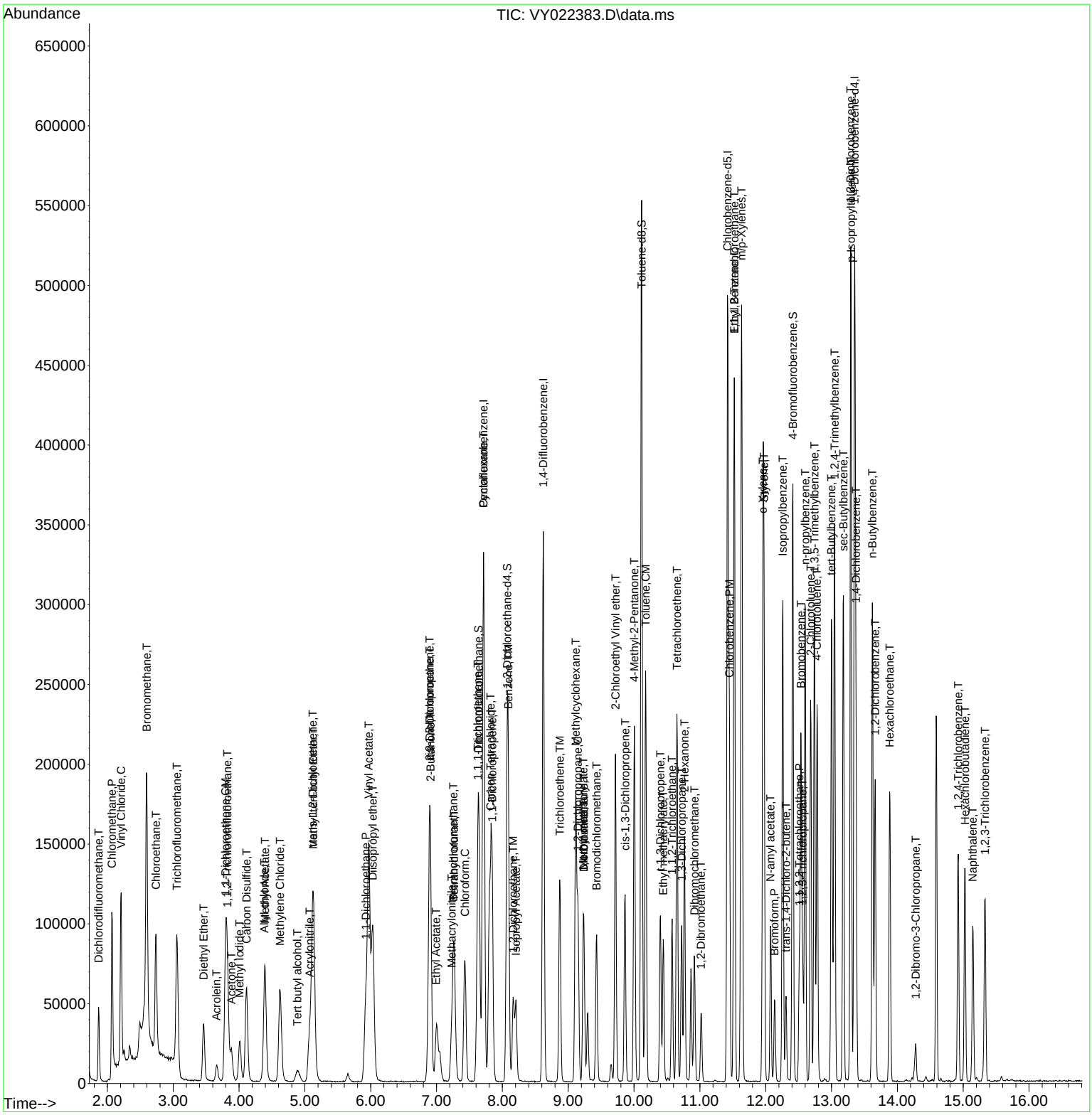
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052225\
Data File : VY022383.D
Acq On : 22 May 2025 09:59
Operator : SY/MD
Sample : VY0522SBSD01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

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



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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
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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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

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

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

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

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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LAB CHRONICLE

OrderID:	Q2074	**OrderDate:**	5/16/2025 3:13:00 PM
Client:	CDM Smith	**Project:**	South River WM Replacement
Contact:	Marcie Ann Encinas	**Location:**	L31,VOA Ref. #2 Soil

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2074-01	**TP-12**	**SOIL**			**05/15/25**			**05/16/25**
			VOC-TCLVOA-10	8260D			05/22/25	
Q2074-02	**TP-7**	**SOIL**			**05/15/25**			**05/16/25**
			VOC-TCLVOA-10	8260D			05/22/25	
Q2074-03	**TP-15**	**SOIL**			**05/15/25**			**05/16/25**
			VOC-TCLVOA-10	8260D			05/22/25	
Q2074-04	**TP-20**	**SOIL**			**05/15/25**			**05/16/25**
			VOC-TCLVOA-10	8260D			05/22/25	
Q2074-05	**TP-38**	**SOIL**			**05/15/25**			**05/16/25**
			VOC-TCLVOA-10	8260D			05/22/25	
Q2074-06	**TP-19**	**SOIL**			**05/15/25**			**05/16/25**
			VOC-TCLVOA-10	8260D			05/22/25	
Q2074-07	**TP-40**	**SOIL**			**05/15/25**			**05/16/25**
			VOC-TCLVOA-10	8260D			05/22/25	
Q2074-08	**TP-18**	**SOIL**			**05/16/25**			**05/16/25**
			VOC-TCLVOA-10	8260D			05/22/25	

SAMPLE DATA

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Report of Analysis

Client:	CDM Smith	Date Collected:	05/16/25
Project:	South River WM Replacement	Date Received:	05/16/25
Client Sample ID:	TP-12	SDG No.:	Q2074
Lab Sample ID:	Q2074-01	Matrix:	SOIL
Analytical Method:	8015D GRO	% Solid:	83.5 Decanted:
Sample Wt/Vol:	7.23 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
FB031783.D	1	05/20/25 11:23	FB052025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
GRO	GRO	18.0	J	7.00	37.0	ug/kg
SURROGATES						
98-08-8	Alpha,Alpha,Alpha-Trifluoroto	18.0		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

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Report of Analysis

Client:	CDM Smith	Date Collected:	05/16/25
Project:	South River WM Replacement	Date Received:	05/16/25
Client Sample ID:	TP-7	SDG No.:	Q2074
Lab Sample ID:	Q2074-02	Matrix:	SOIL
Analytical Method:	8015D GRO	% Solid:	88.7 Decanted:
Sample Wt/Vol:	4.91 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
FB031784.D	1	05/20/25 11:50	FB052025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
GRO	GRO	13.0	J	9.00	52.0	ug/kg
SURROGATES						
98-08-8	Alpha,Alpha,Alpha-Trifluoroto	18.7		50 - 150	94%	SPK: 20

Comments:

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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:	05/16/25
Project:	South River WM Replacement	Date Received:	05/16/25
Client Sample ID:	TP-15	SDG No.:	Q2074
Lab Sample ID:	Q2074-03	Matrix:	SOIL
Analytical Method:	8015D GRO	% Solid:	87 Decanted:
Sample Wt/Vol:	5.74 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
FB031785.D	1	05/20/25 12:27	FB052025

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	18.2		50 - 150	91%	SPK: 20

Comments:

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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:	05/16/25
Project:	South River WM Replacement	Date Received:	05/16/25
Client Sample ID:	TP-20	SDG No.:	Q2074
Lab Sample ID:	Q2074-04	Matrix:	SOIL
Analytical Method:	8015D GRO	% Solid:	84.3 Decanted:
Sample Wt/Vol:	7.9 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
FB031786.D	1	05/20/25 13:11	FB052025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
GRO	GRO	6.00	U	6.00	34.0	ug/kg
SURROGATES						
98-08-8	Alpha,Alpha,Alpha-Trifluoroto	19.7		50 - 150	99%	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:	05/15/25
Project:	South River WM Replacement	Date Received:	05/16/25
Client Sample ID:	TP-38	SDG No.:	Q2074
Lab Sample ID:	Q2074-05	Matrix:	SOIL
Analytical Method:	8015D GRO	% Solid:	81.9 Decanted:
Sample Wt/Vol:	6.9 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
FB031801.D	50	05/21/25 11:08	FB052125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
GRO	GRO	365	U	365	1990	ug/kg
SURROGATES						
98-08-8	Alpha,Alpha,Alpha-Trifluoroto	23.0		50 - 150	115%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	CDM Smith	Date Collected:	05/16/25
Project:	South River WM Replacement	Date Received:	05/16/25
Client Sample ID:	TP-19	SDG No.:	Q2074
Lab Sample ID:	Q2074-06	Matrix:	SOIL
Analytical Method:	8015D GRO	% Solid:	85.9 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
FB031788.D	1	05/20/25 14:06	FB052025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
GRO	GRO	9.00	U	9.00	48.0	ug/kg
SURROGATES						
98-08-8	Alpha,Alpha,Alpha-Trifluoroto	10.7		50 - 150	53%	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:	05/15/25
Project:	South River WM Replacement	Date Received:	05/16/25
Client Sample ID:	TP-40	SDG No.:	Q2074
Lab Sample ID:	Q2074-07	Matrix:	SOIL
Analytical Method:	8015D GRO	% Solid:	89.2 Decanted:
Sample Wt/Vol:	7.11 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
FB031802.D	50	05/21/25 11:35	FB052125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
GRO	GRO	326	U	326	1770	ug/kg
SURROGATES						
98-08-8	Alpha,Alpha,Alpha-Trifluoroto	20.1		50 - 150	101%	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:	05/16/25
Project:	South River WM Replacement	Date Received:	05/16/25
Client Sample ID:	TP-18	SDG No.:	Q2074
Lab Sample ID:	Q2074-08	Matrix:	SOIL
Analytical Method:	8015D GRO	% Solid:	78 Decanted:
Sample Wt/Vol:	7.68 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
FB031803.D	50	05/21/25 12:12	FB052125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
GRO	GRO	345	U	345	1880	ug/kg
SURROGATES						
98-08-8	Alpha,Alpha,Alpha-Trifluoroto	19.1		50 - 150	95%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
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S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

QC SUMMARY

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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SOIL GASOLINE RANGE ORGANICS SURROGATE RECOVERY

Lab Name: Chemtech Client: CDM Smith

Lab Code: CHEM Case No.: Q2074 SAS No.: Q2074 SDG No.: Q2074

EPA SAMPLE NO.	S1 AAA-TFT	S2	S3	S4	TOT OUT
VBF0520S1	99				0
BSF0520S1	100				0
TP-12	90				0
TP-7	94				0
TP-15	91				0
TP-20	99				0
TP-19	53				0
BSF0520S2	94				0
VBF0521S2	89				0
BSF0521S1	73				0
TP-38	115				0
TP-40	101				0
TP-18	95				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:** Q2074 **SAS No :** Q2074 **SDG No:** Q2074

Matrix Spike - EPA Sample No : BSF0520S1 **Datafile:** FB031782.D

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

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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:** Q2074 **SAS No :** Q2074 **SDG No:** Q2074

Matrix Spike - EPA Sample No : BSF0520S2 **Datafile:** FB031789.D

COMPOUND	SPIKE ADDED ug/kg	CONCENTRATION ug/kg	LCS/LCSD CONCENTRATION ug/kg	% REC	QC LIMITS
GRO	180	0	177	98	50-150

LCS/LCSD % Recovery RPD : 9.5

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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:** Q2074 **SAS No :** Q2074 **SDG No:** Q2074

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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Fax : 908 789 8922

METHOD BLANK SUMMARY

EPA SAMPLE NO.
VBF0520S1

Lab Name: CHEMTECH Contract: CAMP02

Lab Code: CHEM Case No.: Q2074 SAS No.: Q2074 SDG NO.: Q2074

Lab File ID: FB031780.D Lab Sample ID: VBF0520S1

Date Analyzed: 05/20/25 Time Analyzed: 10:00

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
BSF0520S1	BSF0520S1	FB031782.D	05/20/25
TP-12	Q2074-01	FB031783.D	05/20/25
TP-7	Q2074-02	FB031784.D	05/20/25
TP-15	Q2074-03	FB031785.D	05/20/25
TP-20	Q2074-04	FB031786.D	05/20/25
TP-19	Q2074-06	FB031788.D	05/20/25
BSF0520S2	BSF0520S2	FB031789.D	05/20/25
BSF0521S1	BSF0521S1	FB031800.D	05/21/25

COMMENTS:

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METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBF0521S2

Lab Name: CHEMTECH Contract: CAMP02

Lab Code: CHEM Case No.: Q2074 SAS No.: Q2074 SDG NO.: Q2074

Lab File ID: FB031799.D Lab Sample ID: VBF0521S2

Date Analyzed: 05/21/25 Time Analyzed: 10:12

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
TP-38	Q2074-05	FB031801.D	05/21/25
TP-40	Q2074-07	FB031802.D	05/21/25
TP-18	Q2074-08	FB031803.D	05/21/25

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:	VBF0520S1	SDG No.:	Q2074
Lab Sample ID:	VBF0520S1	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
FB031780.D	1	05/20/25 10:00	FB052025

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	19.8		50 - 150	99%	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:	VBF0521S2	SDG No.:	Q2074
Lab Sample ID:	VBF0521S2	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
FB031799.D	50	05/21/25 10:12	FB052125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
GRO	GRO	413	U	413	2250	ug/kg
SURROGATES						
98-08-8	Alpha,Alpha,Alpha-Trifluoroto	17.7		50 - 150	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:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	BSF0520S1	SDG No.:	Q2074
Lab Sample ID:	BSF0520S1	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
FB031782.D	1	05/20/25 10:55	FB052025

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	20.0		50 - 150	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:	BSF0521S1	SDG No.:	Q2074
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:	BSF0520S2	SDG No.:	Q2074
Lab Sample ID:	BSF0520S2	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
FB031789.D	1	05/20/25 14:33	FB052025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
GRO	GRO	177		8.00	45.0	ug/kg
SURROGATES						
98-08-8	Alpha,Alpha,Alpha-Trifluoroto	18.8		50 - 150	94%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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.: Q2074 SAS No.: Q2074 SDG No.: Q2074

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.: Q2074 SAS No.: Q2074 SDG No.: Q2074

DataFile: FB031779.D Analyst Name: YP/AJ Analyst Date: 05-20-2025

Conc. (PPB)	Area Count	RF	Average RF	%D
180	6715387	37308	38857	3.986

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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.: Q2074 SAS No.: Q2074 SDG No.: Q2074

DataFile: FB031790.D Analyst Name: YP/AJ Analyst Date: 05-20-2025

Conc. (PPB)	Area Count	RF	Average RF	%D
180	6776643	37648	38857	3.111

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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.: Q2074 SAS No.: Q2074 SDG No.: Q2074

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.: Q2074 SAS No.: Q2074 SDG No.: Q2074

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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Analytical Sequence

Client: CDM Smith **SDG No.:** Q2074

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	20 May 2025 9:17	FB031779.D	8.793	
VBF0520S1	VBF0520S1	20 May 2025 10:00	FB031780.D	8.795	
BSF0520S1	BSF0520S1	20 May 2025 10:55	FB031782.D	8.796	
TP-12	Q2074-01	20 May 2025 11:23	FB031783.D	8.797	
TP-7	Q2074-02	20 May 2025 11:50	FB031784.D	8.796	
TP-15	Q2074-03	20 May 2025 12:27	FB031785.D	8.794	
TP-20	Q2074-04	20 May 2025 13:11	FB031786.D	8.795	
TP-19	Q2074-06	20 May 2025 14:06	FB031788.D	8.796	
BSF0520S2	BSF0520S2	20 May 2025 14:33	FB031789.D	8.796	
20 PPB GRO STD	20 PPB GRO STD	20 May 2025 15:01	FB031790.D	8.796	
20 PPB GRO STD	20 PPB GRO STD	21 May 2025 9:04	FB031797.D	8.793	
VBF0521S2	VBF0521S2	21 May 2025 10:12	FB031799.D	8.794	
BSF0521S1	BSF0521S1	21 May 2025 10:40	FB031800.D	8.796	
TP-38	Q2074-05	21 May 2025 11:08	FB031801.D	8.795	
TP-40	Q2074-07	21 May 2025 11:35	FB031802.D	8.795	
TP-18	Q2074-08	21 May 2025 12:12	FB031803.D	8.795	
20 PPB GRO STD	20 PPB GRO STD	21 May 2025 13:23	FB031805.D	8.794	

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\FB052025\
Data File : FB031783.D
Signal(s) : FID2B.CH
Acq On : 20 May 2025 11:23
Operator : YP/AJ
Sample : Q2074-01
Misc : 7.23G/5.00 ML DI WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
FID_B
ClientSampleId :
TP-12

Integration File: Calibration.e
Quant Time: May 20 23:34:16 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	8.797	390015	18.037 ng/ml
Target Compounds				

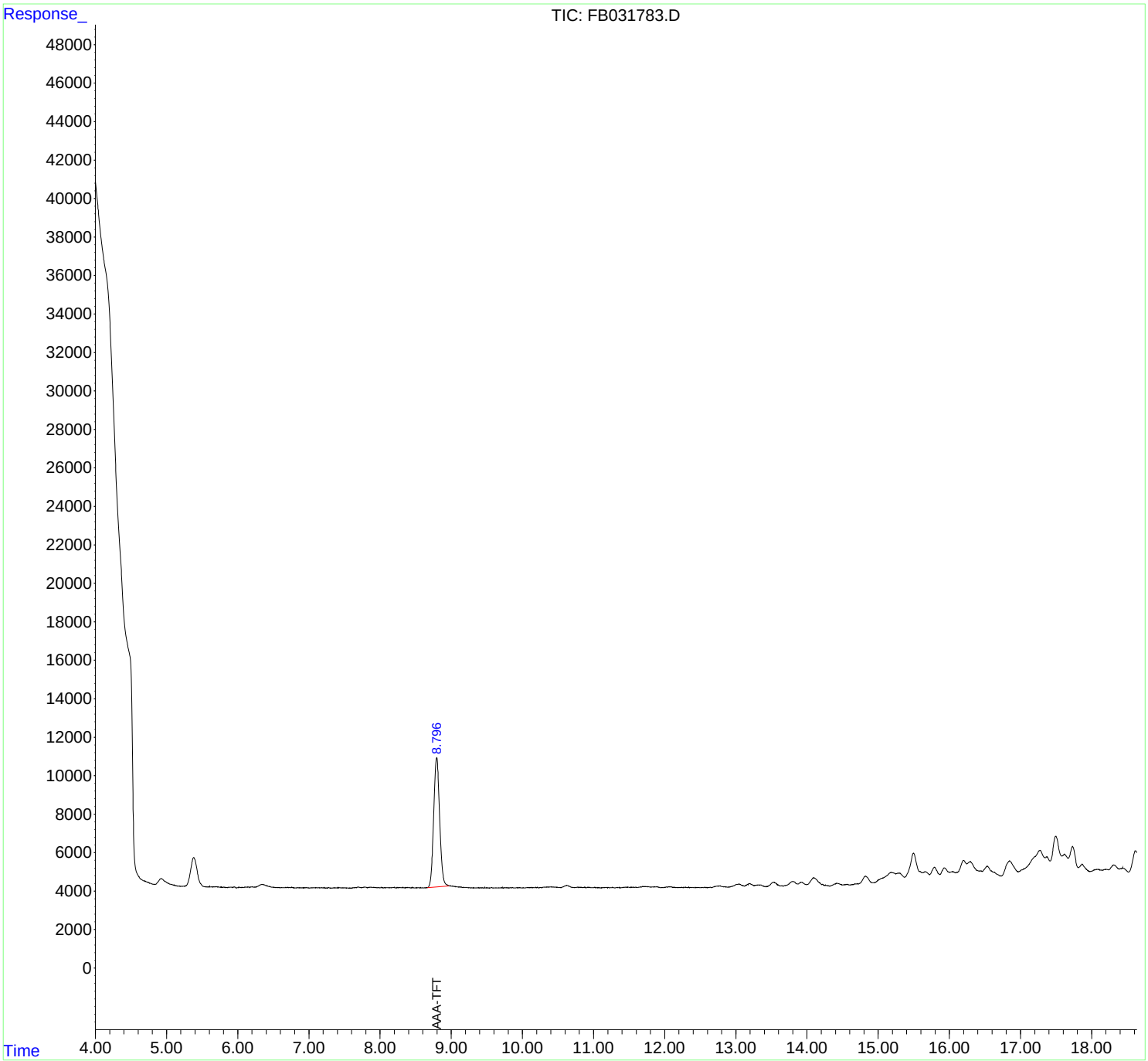
(f)=RT Delta > 1/2 Window (m)=manual int.

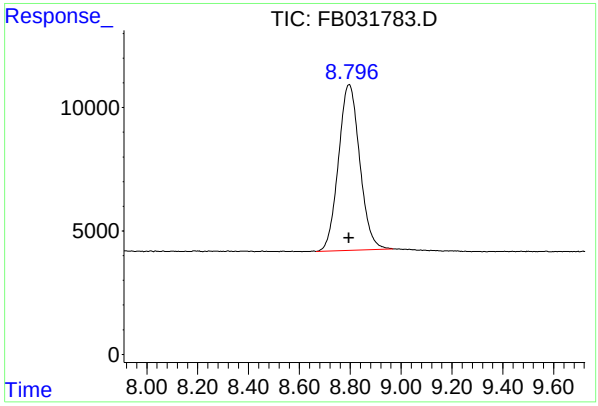
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB052025\
Data File : FB031783.D
Signal(s) : FID2B.CH
Acq On : 20 May 2025 11:23
Operator : YP/AJ
Sample : Q2074-01
Misc : 7.23G/5.00 ML DI WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
FID_B
ClientSampleId :
TP-12

Integration File: Calibration.e
Quant Time: May 20 23:34:16 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





#5 AAA-TFT

R.T.: 8.797 min
Delta R.T.: 0.002 mi
Response: 390015
Conc: 18.04 ng/m

Instrument :
FID_B
ClientSampleId :
TP-12

6
A
B
C
D
E
F
G
H
I

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB052025\
Data File : FB031783.D
Signal(s) : FID2B.CH
Acq On : 20 May 2025 11:23
Sample : Q2074-01
Misc : 7.23G/5.00 ML DI WATER
ALS Vial : 5 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	5.182	5.173	5.205	PV	10	65	0.02%	0.005%
2	5.212	5.205	5.223	PV	15	98	0.02%	0.008%
3	5.582	5.570	5.591	VV	32	254	0.06%	0.021%
4	5.604	5.591	5.623	VV	37	411	0.10%	0.034%
5	5.637	5.623	5.647	VV	36	356	0.09%	0.029%
6	5.662	5.647	5.686	VV	42	684	0.17%	0.056%
7	5.695	5.686	5.701	VV	41	331	0.08%	0.027%
8	5.708	5.701	5.737	VV	43	703	0.17%	0.058%
9	5.753	5.737	5.793	VV	34	792	0.20%	0.065%
10	5.807	5.793	5.856	VV	38	868	0.21%	0.071%
11	5.870	5.856	5.879	VV	38	390	0.10%	0.032%
12	5.904	5.879	5.922	VV	41	919	0.23%	0.075%
13	5.957	5.922	5.981	VV	61	1443	0.36%	0.118%
14	5.991	5.981	6.000	PV	29	239	0.06%	0.020%
15	6.025	6.000	6.039	VV	52	878	0.22%	0.072%
16	6.046	6.039	6.051	VV	36	256	0.06%	0.021%
17	6.060	6.051	6.083	VV	57	786	0.19%	0.064%
18	6.099	6.083	6.107	VV	62	686	0.17%	0.056%
19	6.147	6.107	6.162	VV	70	1881	0.47%	0.154%
20	6.205	6.162	6.222	VV	70	2089	0.52%	0.171%
21	6.338	6.222	6.500	VV	194	19035	4.71%	1.560%
22	6.511	6.500	6.549	VV	56	1235	0.31%	0.101%
23	6.558	6.549	6.598	VV	41	956	0.24%	0.078%
24	6.619	6.598	6.630	VV	37	609	0.15%	0.050%
25	6.655	6.630	6.662	VV	32	545	0.13%	0.045%
26	6.673	6.662	6.681	VV	36	350	0.09%	0.029%
27	6.702	6.681	6.737	VV	51	1249	0.31%	0.102%
28	6.763	6.737	6.781	VV	54	994	0.25%	0.081%
29	6.787	6.781	6.798	VV	44	298	0.07%	0.024%
30	6.849	6.798	6.867	VV	34	933	0.23%	0.076%
31	6.876	6.867	6.884	VV	27	215	0.05%	0.018%
32	6.903	6.884	6.910	VV	29	386	0.10%	0.032%
33	6.919	6.910	6.941	VV	31	467	0.12%	0.038%
34	6.950	6.941	6.958	VV	37	318	0.08%	0.026%
35	6.972	6.958	7.009	VV	44	767	0.19%	0.063%
36	7.059	7.009	7.073	VV	34	912	0.23%	0.075%

rteres

37	7.086	7.073	7.123	VV	36	846	0.21%	0.069%
38	7.133	7.123	7.153	VV	31	484	0.12%	0.040%
39	7.168	7.153	7.179	VV	33	411	0.10%	0.034%
40	7.184	7.179	7.195	VV	32	270	0.07%	0.022%
41	7.204	7.195	7.235	VV	34	546	0.14%	0.045%
42	7.251	7.235	7.268	VV	23	304	0.08%	0.025%
43	7.277	7.268	7.309	VV	41	541	0.13%	0.044%
44	7.371	7.309	7.384	VV	28	873	0.22%	0.072%
45	7.407	7.384	7.422	VV	39	602	0.15%	0.049%
46	7.437	7.422	7.455	VV	36	555	0.14%	0.046%
47	7.462	7.455	7.481	VV	27	389	0.10%	0.032%
48	7.488	7.481	7.497	VV	30	215	0.05%	0.018%
49	7.509	7.497	7.526	VV	30	375	0.09%	0.031%
50	7.538	7.526	7.558	VV	20	265	0.07%	0.022%
51	7.570	7.558	7.580	VV	16	153	0.04%	0.013%
52	7.586	7.580	7.593	VV	14	75	0.02%	0.006%
53	7.603	7.593	7.607	PV	21	101	0.02%	0.008%
54	7.655	7.607	7.668	VV	48	1099	0.27%	0.090%
55	7.693	7.668	7.731	VV	69	1814	0.45%	0.149%
56	7.743	7.731	7.751	VV	44	401	0.10%	0.033%
57	7.777	7.751	7.826	VV	61	2040	0.50%	0.167%
58	7.861	7.826	7.875	VV	51	1161	0.29%	0.095%
59	7.881	7.875	7.892	VV	47	433	0.11%	0.035%
60	7.916	7.892	7.938	VV	43	957	0.24%	0.078%
61	7.941	7.938	7.957	VV	37	288	0.07%	0.024%
62	7.973	7.957	7.990	VV	29	390	0.10%	0.032%
63	8.000	7.990	8.007	VV	20	147	0.04%	0.012%
64	8.017	8.007	8.027	VV	40	289	0.07%	0.024%
65	8.035	8.027	8.055	VV	29	283	0.07%	0.023%
66	8.064	8.055	8.084	VV	29	285	0.07%	0.023%
67	8.102	8.084	8.122	VV	21	367	0.09%	0.030%
68	8.190	8.122	8.219	VV	31	931	0.23%	0.076%
69	8.246	8.219	8.309	PB	17	527	0.13%	0.043%
70	8.350	8.311	8.361	BV	14	211	0.05%	0.017%
71	8.388	8.361	8.403	PV	20	330	0.08%	0.027%
72	8.412	8.403	8.427	VV	21	150	0.04%	0.012%
73	8.455	8.427	8.488	PV	30	353	0.09%	0.029%
74	8.539	8.488	8.556	VV	15	371	0.09%	0.030%
75	8.572	8.556	8.611	VV	22	306	0.08%	0.025%
76	8.657	8.611	8.666	PV	26	452	0.11%	0.037%
77	8.796	8.666	9.007	VV	6771	404333	100.00%	33.130%
78	9.016	9.007	9.067	VV	105	3158	0.78%	0.259%
79	9.077	9.067	9.111	VV	70	1572	0.39%	0.129%
80	9.119	9.111	9.165	VV	58	1472	0.36%	0.121%
81	9.174	9.165	9.188	VV	42	482	0.12%	0.039%
82	9.212	9.188	9.245	VV	37	950	0.23%	0.078%
83	9.254	9.245	9.279	VV	20	280	0.07%	0.023%
84	9.290	9.279	9.320	VV	18	262	0.06%	0.021%
85	9.327	9.320	9.338	VV	13	94	0.02%	0.008%
86	9.347	9.338	9.360	VV	15	142	0.04%	0.012%
87	9.366	9.360	9.377	VV	17	123	0.03%	0.010%
88	9.383	9.377	9.400	VV	18	191	0.05%	0.016%
89	9.408	9.400	9.424	VV	21	198	0.05%	0.016%

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90	9.438	9.424	9.452	VV	23	218	0.05%	0.018%
91	9.473	9.452	9.492	VV	28	303	0.07%	0.025%
92	9.500	9.492	9.539	VV	21	311	0.08%	0.025%
93	9.570	9.539	9.589	VV	31	418	0.10%	0.034%
94	9.628	9.589	9.637	VV	16	298	0.07%	0.024%
95	9.670	9.637	9.688	VV	15	320	0.08%	0.026%
96	9.716	9.688	9.730	VV	27	320	0.08%	0.026%
97	9.746	9.730	9.815	PV	22	783	0.19%	0.064%
98	9.862	9.815	9.874	VV	28	563	0.14%	0.046%
99	9.881	9.874	9.901	VV	10	112	0.03%	0.009%
100	9.919	9.901	9.946	VV	23	366	0.09%	0.030%
101	9.956	9.946	9.968	VV	24	218	0.05%	0.018%
102	9.975	9.968	9.999	VV	16	205	0.05%	0.017%
103	10.010	9.999	10.040	VV	14	159	0.04%	0.013%
104	10.073	10.040	10.084	VV	27	402	0.10%	0.033%
105	10.097	10.084	10.114	VV	30	353	0.09%	0.029%
106	10.123	10.114	10.143	VV	23	301	0.07%	0.025%
107	10.153	10.143	10.169	VV	22	257	0.06%	0.021%
108	10.187	10.169	10.197	VV	35	323	0.08%	0.026%
109	10.211	10.197	10.227	VV	36	328	0.08%	0.027%
110	10.258	10.227	10.273	PV	29	416	0.10%	0.034%
111	10.299	10.273	10.309	VV	37	556	0.14%	0.046%
112	10.350	10.309	10.356	VV	42	949	0.23%	0.078%
113	10.367	10.356	10.378	VV	39	448	0.11%	0.037%
114	10.389	10.378	10.407	VV	42	607	0.15%	0.050%
115	10.417	10.407	10.427	VV	39	370	0.09%	0.030%
116	10.435	10.427	10.508	VB	30	755	0.19%	0.062%
117	10.624	10.510	10.730	BV	118	5727	1.42%	0.469%
118	10.749	10.730	10.757	PV	18	183	0.05%	0.015%
119	10.770	10.757	10.856	VV	29	1222	0.30%	0.100%
120	10.866	10.856	10.907	VV	24	424	0.10%	0.035%
121	10.926	10.907	10.934	VV	30	320	0.08%	0.026%
122	10.944	10.934	10.993	VV	30	525	0.13%	0.043%
123	11.014	10.993	11.027	VV	32	367	0.09%	0.030%
124	11.036	11.027	11.064	VV	23	333	0.08%	0.027%
125	11.071	11.064	11.100	VV	28	301	0.07%	0.025%
126	11.170	11.100	11.224	PV	30	1424	0.35%	0.117%
127	11.249	11.224	11.256	VV	18	274	0.07%	0.022%
128	11.266	11.256	11.298	VV	35	418	0.10%	0.034%
129	11.332	11.298	11.346	VV	28	494	0.12%	0.040%
130	11.356	11.346	11.365	VV	34	262	0.06%	0.021%
131	11.370	11.365	11.381	VV	20	101	0.02%	0.008%
132	11.421	11.381	11.429	PV	35	592	0.15%	0.049%
133	11.446	11.429	11.549	VV	39	2408	0.60%	0.197%
134	11.559	11.549	11.577	VV	36	524	0.13%	0.043%
135	11.589	11.577	11.617	VV	40	688	0.17%	0.056%
136	11.714	11.617	11.742	VV	73	3897	0.96%	0.319%
137	11.752	11.742	11.811	VV	69	2244	0.55%	0.184%
138	11.822	11.811	11.835	VV	53	653	0.16%	0.053%
139	11.855	11.835	11.871	VV	65	1110	0.27%	0.091%
140	11.884	11.871	11.894	VV	58	698	0.17%	0.057%
141	11.902	11.894	11.913	VV	55	489	0.12%	0.040%

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142	11.920	11.913	11.936	VV	32	306	0.08%	0.025%
143	11.957	11.936	11.976	VV	18	293	0.07%	0.024%
144	11.998	11.976	12.007	VV	25	317	0.08%	0.026%
145	12.025	12.007	12.036	VV	43	583	0.14%	0.048%
146	12.060	12.036	12.080	VV	54	1169	0.29%	0.096%
147	12.092	12.080	12.136	VV	50	1071	0.26%	0.088%
148	12.144	12.136	12.181	VV	26	355	0.09%	0.029%
149	12.204	12.181	12.214	VV	17	195	0.05%	0.016%
150	12.238	12.214	12.267	VV	26	365	0.09%	0.030%
151	12.297	12.267	12.327	VV	26	516	0.13%	0.042%
152	12.336	12.327	12.356	VV	36	261	0.06%	0.021%
153	12.366	12.356	12.431	VB	20	435	0.11%	0.036%
154	12.470	12.434	12.502	BV	17	335	0.08%	0.027%
155	12.529	12.502	12.546	VV	15	225	0.06%	0.018%
156	12.565	12.546	12.586	PV	25	280	0.07%	0.023%
157	12.596	12.586	12.601	PV	8	48	0.01%	0.004%
158	12.611	12.601	12.621	VV	16	104	0.03%	0.009%
159	12.641	12.621	12.662	VV	26	289	0.07%	0.024%
160	12.702	12.662	12.709	VV	62	878	0.22%	0.072%
161	12.746	12.709	12.763	VV	87	2326	0.58%	0.191%
162	12.781	12.763	12.826	VV	88	2333	0.58%	0.191%
163	12.835	12.826	12.845	VV	42	400	0.10%	0.033%
164	12.855	12.845	12.864	VV	44	331	0.08%	0.027%
165	12.872	12.864	12.884	VV	30	216	0.05%	0.018%
166	12.902	12.884	12.910	VV	24	260	0.06%	0.021%
167	12.938	12.910	12.947	VV	46	807	0.20%	0.066%
168	13.018	12.947	13.029	VV	154	5419	1.34%	0.444%
169	13.044	13.029	13.121	VV	173	6549	1.62%	0.537%
170	13.190	13.121	13.255	VV	190	10072	2.49%	0.825%
171	13.309	13.255	13.340	VV	111	4884	1.21%	0.400%
172	13.349	13.340	13.399	VV	109	2542	0.63%	0.208%
173	13.416	13.399	13.428	VV	27	384	0.10%	0.031%
174	13.533	13.428	13.627	VV	237	14699	3.64%	1.204%
175	13.653	13.627	13.672	VV	52	1111	0.27%	0.091%
176	13.689	13.672	13.697	VV	60	762	0.19%	0.062%
177	13.802	13.697	13.876	VV	268	18390	4.55%	1.507%
178	13.930	13.876	13.991	VV	223	11423	2.83%	0.936%
179	14.097	13.991	14.210	VV	442	33819	8.36%	2.771%
180	14.219	14.210	14.315	VV	95	2591	0.64%	0.212%
181	14.420	14.315	14.510	PV	129	7586	1.88%	0.622%
182	14.525	14.510	14.532	VV	40	411	0.10%	0.034%
183	14.560	14.532	14.593	VV	53	1299	0.32%	0.106%
184	14.607	14.593	14.619	VV	18	142	0.04%	0.012%
185	14.709	14.619	14.719	PV	57	1955	0.48%	0.160%
186	14.828	14.719	14.922	VV	421	25405	6.28%	2.082%
187	15.179	14.922	15.248	VV	535	59534	14.72%	4.878%
188	15.282	15.248	15.297	VV	475	13522	3.34%	1.108%
189	15.305	15.297	15.372	VV	470	15962	3.95%	1.308%
190	15.498	15.372	15.624	VV	1464	113641	28.11%	9.311%
191	15.633	15.624	15.637	VV	423	3367	0.83%	0.276%
192	15.663	15.637	15.720	VV	459	20085	4.97%	1.646%
193	15.792	15.720	15.864	VV	663	40068	9.91%	3.283%
194	15.930	15.864	16.011	VV	599	38893	9.62%	3.187%

rteres

195	16.044	16.011	16.094	VV	376	17309	4.28%	1.418%
196	16.202	16.094	16.246	VV	925	58009	14.35%	4.753%
197	16.296	16.246	16.430	VV	852	65255	16.14%	5.347%
198	16.449	16.430	16.467	VV	329	6893	1.70%	0.565%
199	16.535	16.467	16.634	VV	547	37739	9.33%	3.092%
200	16.638	16.634	16.715	VV	220	4861	1.20%	0.398%
201	16.846	16.715	16.977	PV	681	47594	11.77%	3.900%
			Sum of corrected areas:			1220453		

FB051925.M Wed May 21 00:20:03 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB052025\
Data File : FB031784.D
Signal(s) : FID2B.CH
Acq On : 20 May 2025 11:50
Operator : YP/AJ
Sample : Q2074-02
Misc : 4.91G/5.00 ML DI WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
FID_B
ClientSampleId :
TP-7

Integration File: Calibration.e
Quant Time: May 20 23:34:31 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	8.797	404818	18.721 ng/ml
Target Compounds				

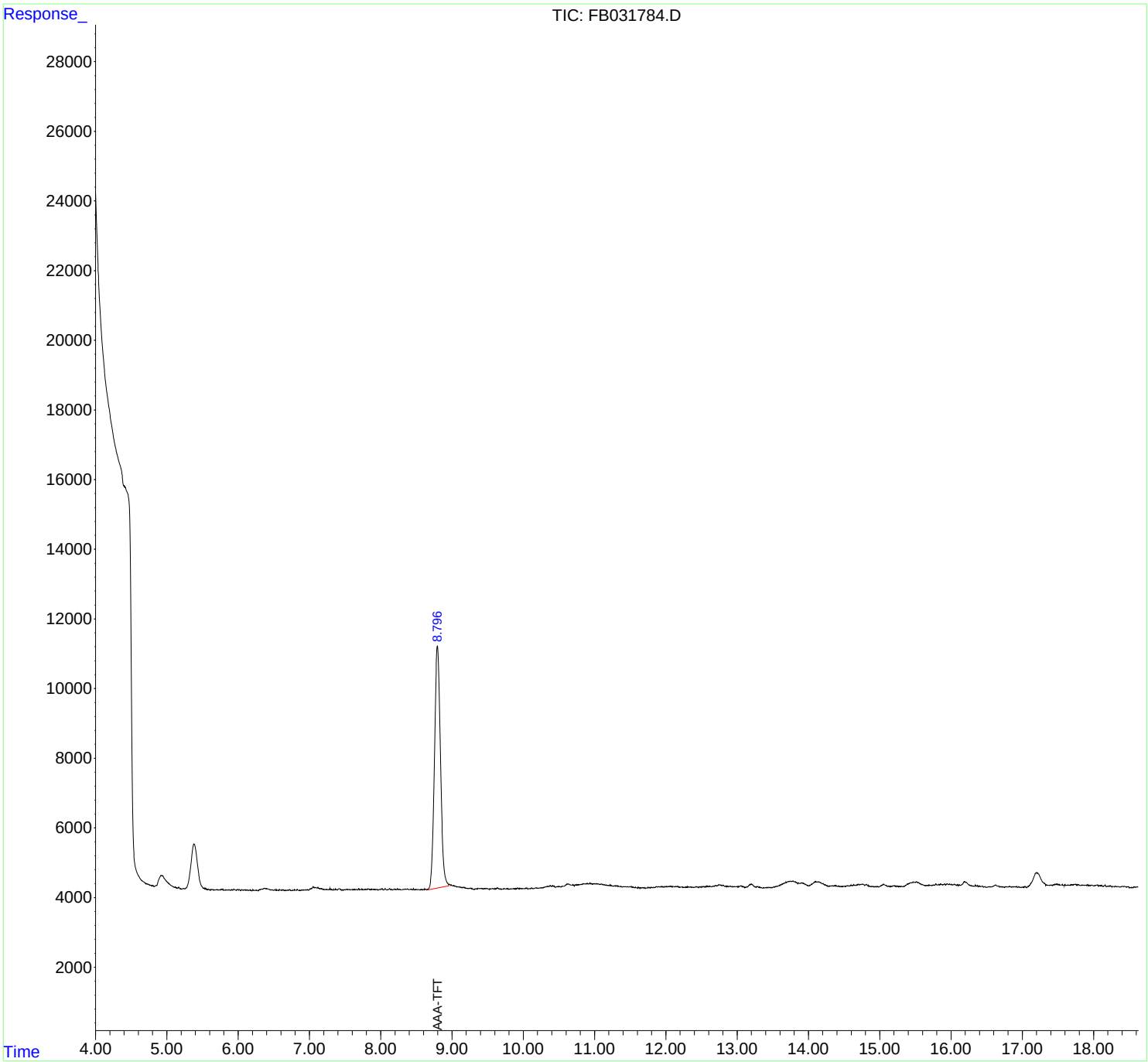
(f)=RT Delta > 1/2 Window (m)=manual int.

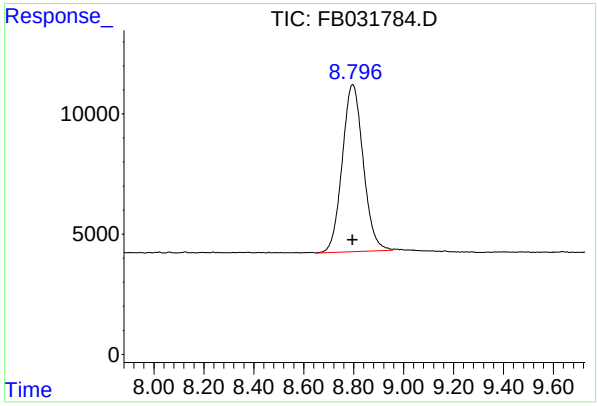
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB052025\
Data File : FB031784.D
Signal(s) : FID2B.CH
Acq On : 20 May 2025 11:50
Operator : YP/AJ
Sample : Q2074-02
Misc : 4.91G/5.00 ML DI WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
FID_B
ClientSampleId :
TP-7

Integration File: Calibration.e
Quant Time: May 20 23:34:31 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.:	8.797 min
Delta R.T.:	0.001 mi
Response:	404818
Conc:	18.72 ng/m

Instrument :
FID_B
ClientSampleId :
TP-7

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB052025\
Data File : FB031784.D
Signal(s) : FID2B.CH
Acq On : 20 May 2025 11:50
Sample : Q2074-02
Misc : 4.91G/5.00 ML DI WATER
ALS Vial : 6 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	5.121	5.109	5.151	VV	44	721	0.17%	0.084%
2	5.171	5.151	5.188	VV	45	556	0.13%	0.065%
3	5.196	5.188	5.211	VV	13	97	0.02%	0.011%
4	5.232	5.211	5.252	PV	27	430	0.10%	0.050%
5	5.522	5.514	5.534	VV	57	514	0.12%	0.060%
6	5.547	5.534	5.575	VV	58	671	0.16%	0.078%
7	5.584	5.575	5.609	VV	29	294	0.07%	0.034%
8	5.625	5.609	5.683	PV	26	526	0.13%	0.061%
9	5.711	5.683	5.742	VV	19	446	0.11%	0.052%
10	5.766	5.742	5.804	VV	39	695	0.17%	0.081%
11	5.831	5.804	5.845	VV	20	311	0.07%	0.036%
12	5.866	5.845	5.895	VV	21	464	0.11%	0.054%
13	5.906	5.895	5.915	VV	27	198	0.05%	0.023%
14	5.922	5.915	5.926	VV	19	98	0.02%	0.011%
15	5.940	5.926	5.979	VV	41	756	0.18%	0.088%
16	5.992	5.979	6.006	VV	36	417	0.10%	0.049%
17	6.018	6.006	6.038	VV	35	431	0.10%	0.050%
18	6.056	6.038	6.102	VV	36	839	0.20%	0.098%
19	6.128	6.102	6.153	VV	33	658	0.16%	0.077%
20	6.166	6.153	6.174	VV	30	273	0.07%	0.032%
21	6.180	6.174	6.190	VV	27	148	0.04%	0.017%
22	6.208	6.190	6.235	PV	35	462	0.11%	0.054%
23	6.256	6.235	6.282	VV	27	467	0.11%	0.054%
24	6.363	6.282	6.396	VV	80	3450	0.83%	0.401%
25	6.405	6.396	6.474	VV	69	2017	0.48%	0.235%
26	6.481	6.474	6.495	VV	31	312	0.07%	0.036%
27	6.517	6.495	6.529	VV	37	426	0.10%	0.050%
28	6.544	6.529	6.563	VV	31	400	0.10%	0.047%
29	6.582	6.563	6.611	VV	37	633	0.15%	0.074%
30	6.623	6.611	6.648	VV	29	472	0.11%	0.055%
31	6.658	6.648	6.666	VV	24	126	0.03%	0.015%
32	6.677	6.666	6.685	VV	20	158	0.04%	0.018%
33	6.697	6.685	6.710	VV	25	291	0.07%	0.034%
34	6.725	6.710	6.751	VV	30	439	0.11%	0.051%
35	6.796	6.751	6.815	VV	31	681	0.16%	0.079%
36	6.829	6.815	6.845	VV	42	412	0.10%	0.048%

rteres

37	6.850	6.845	6.877	VV	16	223	0.05%	0.026%
38	6.903	6.877	6.911	VV	28	353	0.08%	0.041%
39	6.955	6.911	6.965	VV	28	683	0.16%	0.079%
40	7.054	6.965	7.068	VV	119	3430	0.82%	0.399%
41	7.076	7.068	7.108	VV	97	2114	0.51%	0.246%
42	7.119	7.108	7.147	VV	97	1704	0.41%	0.198%
43	7.162	7.147	7.198	VV	63	1515	0.36%	0.176%
44	7.204	7.198	7.224	VV	38	503	0.12%	0.059%
45	7.235	7.224	7.265	VV	36	784	0.19%	0.091%
46	7.296	7.265	7.306	VV	51	921	0.22%	0.107%
47	7.316	7.306	7.331	VV	36	403	0.10%	0.047%
48	7.343	7.331	7.357	VV	40	384	0.09%	0.045%
49	7.369	7.357	7.391	VV	41	590	0.14%	0.069%
50	7.423	7.391	7.472	VV	55	1530	0.37%	0.178%
51	7.480	7.472	7.502	VV	26	386	0.09%	0.045%
52	7.520	7.502	7.549	VV	39	815	0.20%	0.095%
53	7.564	7.549	7.574	VV	34	409	0.10%	0.048%
54	7.587	7.574	7.604	VV	30	425	0.10%	0.049%
55	7.611	7.604	7.620	VV	33	237	0.06%	0.028%
56	7.634	7.620	7.677	VV	33	872	0.21%	0.101%
57	7.691	7.677	7.703	VV	59	555	0.13%	0.065%
58	7.739	7.703	7.750	VV	45	758	0.18%	0.088%
59	7.786	7.750	7.808	VV	35	964	0.23%	0.112%
60	7.817	7.808	7.852	VV	49	932	0.22%	0.108%
61	7.861	7.852	7.875	VV	35	399	0.10%	0.046%
62	7.884	7.875	7.932	VV	33	920	0.22%	0.107%
63	7.947	7.932	7.966	VV	31	475	0.11%	0.055%
64	7.983	7.966	7.997	VV	34	459	0.11%	0.053%
65	8.023	7.997	8.038	VV	53	812	0.19%	0.094%
66	8.064	8.038	8.091	VV	51	821	0.20%	0.096%
67	8.126	8.091	8.169	VV	58	1221	0.29%	0.142%
68	8.190	8.169	8.225	VV	30	874	0.21%	0.102%
69	8.237	8.225	8.259	VV	50	628	0.15%	0.073%
70	8.266	8.259	8.285	VV	32	358	0.09%	0.042%
71	8.317	8.285	8.329	VV	30	547	0.13%	0.064%
72	8.345	8.329	8.359	VV	34	533	0.13%	0.062%
73	8.379	8.359	8.397	VV	41	654	0.16%	0.076%
74	8.422	8.397	8.453	VV	36	776	0.19%	0.090%
75	8.461	8.453	8.499	VV	45	583	0.14%	0.068%
76	8.507	8.499	8.517	VV	26	210	0.05%	0.024%
77	8.529	8.517	8.549	VV	22	321	0.08%	0.037%
78	8.575	8.549	8.589	VV	24	407	0.10%	0.047%
79	8.630	8.589	8.648	VV	33	762	0.18%	0.089%
80	8.796	8.648	8.957	VV	7010	416833	100.00%	48.503%
81	8.964	8.957	9.010	VV	170	4670	1.12%	0.543%
82	9.018	9.010	9.085	VV	130	4989	1.20%	0.580%
83	9.090	9.085	9.130	VV	98	2294	0.55%	0.267%
84	9.138	9.130	9.152	VV	78	980	0.24%	0.114%
85	9.167	9.152	9.202	VV	88	1992	0.48%	0.232%
86	9.205	9.202	9.227	VV	55	710	0.17%	0.083%
87	9.258	9.227	9.305	VV	55	1817	0.44%	0.211%
88	9.336	9.305	9.350	VV	40	784	0.19%	0.091%
89	9.411	9.350	9.458	VV	49	2471	0.59%	0.288%

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90	9.466	9.458	9.526	VV	49	1480	0.36%	0.172%
91	9.568	9.526	9.589	VV	40	1202	0.29%	0.140%
92	9.634	9.589	9.720	VV	61	2536	0.61%	0.295%
93	9.734	9.720	9.759	VV	37	712	0.17%	0.083%
94	9.770	9.759	9.791	VV	42	621	0.15%	0.072%
95	9.798	9.791	9.805	VV	32	203	0.05%	0.024%
96	9.860	9.805	9.904	VV	41	1791	0.43%	0.208%
97	9.922	9.904	9.941	VV	57	851	0.20%	0.099%
98	9.952	9.941	10.017	VV	45	1547	0.37%	0.180%
99	10.040	10.017	10.069	VV	52	1156	0.28%	0.134%
100	10.081	10.069	10.103	VV	40	639	0.15%	0.074%
101	10.121	10.103	10.147	VV	54	1053	0.25%	0.123%
102	10.176	10.147	10.200	VV	60	1479	0.35%	0.172%
103	10.251	10.200	10.260	VV	63	1768	0.42%	0.206%
104	10.343	10.260	10.356	VV	101	4339	1.04%	0.505%
105	10.380	10.356	10.398	VV	122	2569	0.62%	0.299%
106	10.406	10.398	10.456	VV	113	3407	0.82%	0.396%
107	10.501	10.456	10.527	VV	95	3588	0.86%	0.417%
108	10.616	10.527	10.685	VV	162	11846	2.84%	1.378%
109	10.694	10.685	10.719	VV	139	2568	0.62%	0.299%
110	10.732	10.719	10.741	VV	144	1741	0.42%	0.203%
111	10.755	10.741	10.772	VV	147	2489	0.60%	0.290%
112	10.789	10.772	10.797	VV	143	2031	0.49%	0.236%
113	10.812	10.797	10.818	VV	150	1889	0.45%	0.220%
114	10.844	10.818	10.856	VV	172	3582	0.86%	0.417%
115	10.884	10.856	10.891	VV	172	3379	0.81%	0.393%
116	10.899	10.891	10.915	VV	182	2459	0.59%	0.286%
117	10.953	10.915	10.967	VV	177	5191	1.25%	0.604%
118	11.000	10.967	11.010	VV	168	4120	0.99%	0.479%
119	11.023	11.010	11.031	VV	166	2120	0.51%	0.247%
120	11.039	11.031	11.065	VV	168	3198	0.77%	0.372%
121	11.072	11.065	11.081	VV	154	1420	0.34%	0.165%
122	11.094	11.081	11.129	VV	162	4266	1.02%	0.496%
123	11.137	11.129	11.184	VV	138	4134	0.99%	0.481%
124	11.194	11.184	11.205	VV	121	1432	0.34%	0.167%
125	11.220	11.205	11.265	VV	121	3885	0.93%	0.452%
126	11.319	11.265	11.357	VV	110	5290	1.27%	0.615%
127	11.371	11.357	11.394	VV	95	1752	0.42%	0.204%
128	11.407	11.394	11.457	VV	82	2775	0.67%	0.323%
129	11.465	11.457	11.479	VV	77	963	0.23%	0.112%
130	11.503	11.479	11.604	VV	80	4457	1.07%	0.519%
131	11.613	11.604	11.701	VV	64	2543	0.61%	0.296%
132	11.709	11.701	11.718	VV	48	417	0.10%	0.049%
133	11.752	11.718	11.764	VV	61	1158	0.28%	0.135%
134	11.772	11.764	11.790	VV	51	706	0.17%	0.082%
135	11.804	11.790	11.814	VV	54	719	0.17%	0.084%
136	11.825	11.814	11.834	VV	59	590	0.14%	0.069%
137	11.869	11.834	11.890	VV	78	2130	0.51%	0.248%
138	11.899	11.890	11.927	VV	72	1473	0.35%	0.171%
139	11.952	11.927	11.961	VV	83	1423	0.34%	0.166%
140	11.968	11.961	11.978	VV	77	700	0.17%	0.082%
141	11.989	11.978	12.002	VV	84	1010	0.24%	0.117%

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142	12.013	12.002	12.022	VV	81	873	0.21%	0.102%
143	12.062	12.022	12.071	VV	90	2303	0.55%	0.268%
144	12.078	12.071	12.089	VV	90	804	0.19%	0.094%
145	12.100	12.089	12.123	VV	83	1508	0.36%	0.175%
146	12.136	12.123	12.151	VV	79	1213	0.29%	0.141%
147	12.168	12.151	12.207	VV	78	2188	0.52%	0.255%
148	12.218	12.207	12.263	VV	62	1834	0.44%	0.213%
149	12.291	12.263	12.332	VV	66	2323	0.56%	0.270%
150	12.350	12.332	12.400	VV	67	2213	0.53%	0.258%
151	12.427	12.400	12.462	VV	67	2159	0.52%	0.251%
152	12.472	12.462	12.494	VV	67	1129	0.27%	0.131%
153	12.508	12.494	12.544	VV	77	1955	0.47%	0.227%
154	12.553	12.544	12.561	VV	74	641	0.15%	0.075%
155	12.579	12.561	12.591	VV	88	1276	0.31%	0.148%
156	12.601	12.591	12.614	VV	81	1014	0.24%	0.118%
157	12.622	12.614	12.645	VV	82	1335	0.32%	0.155%
158	12.668	12.645	12.678	VV	86	1516	0.36%	0.176%
159	12.695	12.678	12.714	VV	103	1982	0.48%	0.231%
160	12.743	12.714	12.759	VV	124	2883	0.69%	0.335%
161	12.764	12.759	12.795	VV	120	2331	0.56%	0.271%
162	12.807	12.795	12.837	VV	110	2241	0.54%	0.261%
163	12.845	12.837	12.899	VV	80	2725	0.65%	0.317%
164	12.907	12.899	12.919	VV	81	880	0.21%	0.102%
165	12.933	12.919	13.013	VV	77	3612	0.87%	0.420%
166	13.022	13.013	13.030	VV	75	657	0.16%	0.077%
167	13.053	13.030	13.077	VV	83	2160	0.52%	0.251%
168	13.085	13.077	13.124	VV	69	1410	0.34%	0.164%
169	13.193	13.124	13.264	VV	139	7458	1.79%	0.868%
170	13.278	13.264	13.305	VV	65	1383	0.33%	0.161%
171	13.314	13.305	13.355	VV	53	1080	0.26%	0.126%
172	13.417	13.355	13.425	VV	41	1172	0.28%	0.136%
173	13.443	13.425	13.495	VV	45	1471	0.35%	0.171%
174	13.746	13.495	13.764	VV	215	20583	4.94%	2.395%
175	13.786	13.764	13.884	VV	227	13181	3.16%	1.534%
176	13.907	13.884	14.005	VV	165	9425	2.26%	1.097%
177	14.103	14.005	14.293	VV	196	23573	5.66%	2.743%
178	14.341	14.293	14.362	VV	80	3036	0.73%	0.353%
179	14.373	14.362	14.412	VV	89	2276	0.55%	0.265%
180	14.425	14.412	14.481	VV	70	2413	0.58%	0.281%
181	14.507	14.481	14.524	VV	67	1516	0.36%	0.176%
182	14.544	14.524	14.574	VV	82	2182	0.52%	0.254%
183	14.705	14.574	14.719	VV	121	7978	1.91%	0.928%
184	14.760	14.719	14.791	VV	120	4800	1.15%	0.559%
185	14.814	14.791	14.880	VV	111	4190	1.01%	0.488%
186	14.897	14.880	14.921	VV	56	1233	0.30%	0.144%
187	14.942	14.921	14.958	VV	53	1032	0.25%	0.120%
188	14.969	14.958	14.989	VV	52	849	0.20%	0.099%
189	15.055	14.989	15.172	VV	119	7885	1.89%	0.917%
190	15.202	15.172	15.286	VV	73	3948	0.95%	0.459%
191	15.303	15.286	15.338	VV	52	1530	0.37%	0.178%
192	15.517	15.338	15.645	VV	184	23259	5.58%	2.706%
193	15.689	15.645	15.735	VV	90	4101	0.98%	0.477%
194	15.754	15.735	15.773	VV	89	1943	0.47%	0.226%

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195	15.791	15.773	15.807	VV	115	1957	0.47%	0.228%
196	15.857	15.807	15.885	VV	119	4537	1.09%	0.528%
197	15.911	15.885	15.927	VV	116	2571	0.62%	0.299%
198	15.951	15.927	15.966	VV	121	2501	0.60%	0.291%
199	15.979	15.966	15.994	VV	116	1740	0.42%	0.202%
200	16.007	15.994	16.024	VV	101	1744	0.42%	0.203%
201	16.050	16.024	16.107	VV	108	4434	1.06%	0.516%
202	16.119	16.107	16.131	VV	94	1139	0.27%	0.132%
203	16.189	16.131	16.331	VV	176	12350	2.96%	1.437%
204	16.346	16.331	16.425	VV	78	2844	0.68%	0.331%
205	16.442	16.425	16.460	VV	50	787	0.19%	0.092%
206	16.474	16.460	16.506	VV	35	649	0.16%	0.075%
207	16.537	16.506	16.558	VV	30	836	0.20%	0.097%
208	16.627	16.558	16.759	VV	84	4786	1.15%	0.557%
209	16.772	16.759	16.800	VV	30	604	0.14%	0.070%
210	16.819	16.800	16.863	VV	33	1035	0.25%	0.120%
211	16.924	16.863	16.940	VV	41	1157	0.28%	0.135%
212	16.953	16.940	16.976	VV	37	338	0.08%	0.039%
213	17.039	16.976	17.062	VV	33	851	0.20%	0.099%
			Sum of corrected areas:			859402		

FB051925.M Wed May 21 00:21:28 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB052025\
Data File : FB031785.D
Signal(s) : FID2B.CH
Acq On : 20 May 2025 12:27
Operator : YP/AJ
Sample : Q2074-03
Misc : 5.74G/5.00 ML DI WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
FID_B
ClientSampleId :
TP-15

Integration File: Calibration.e
Quant Time: May 20 23:34:42 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	393017	18.175 ng/ml
Target Compounds				

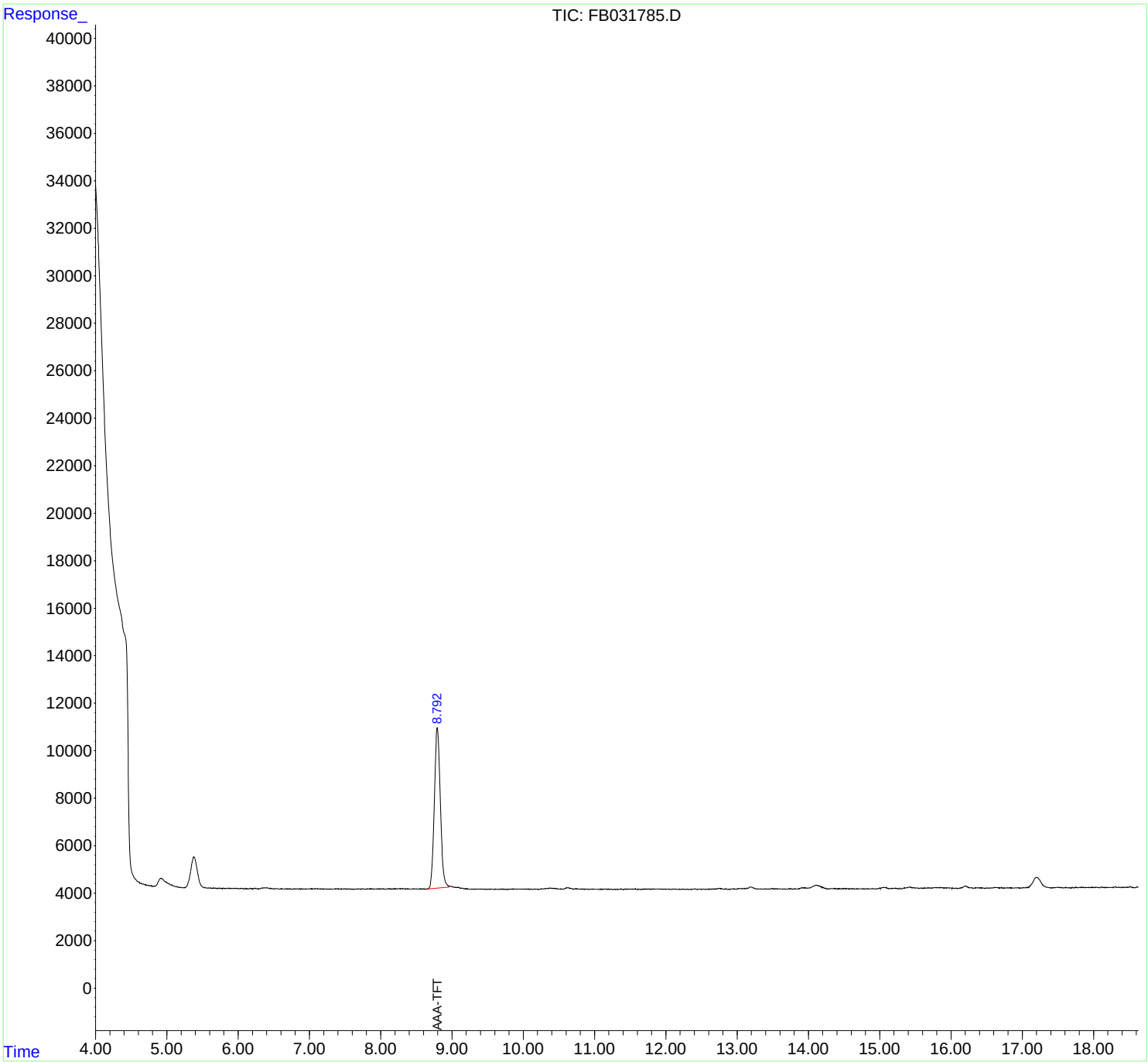
(f)=RT Delta > 1/2 Window (m)=manual int.

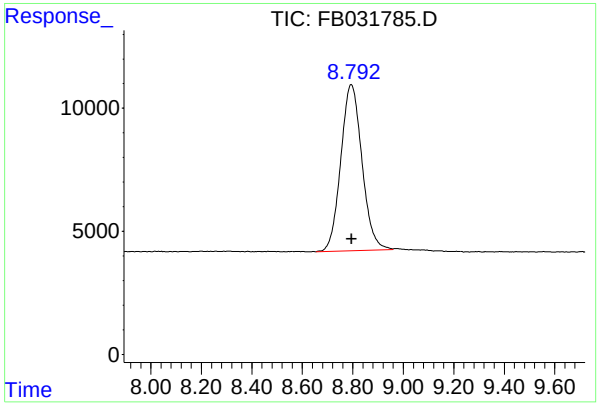
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB052025\
Data File : FB031785.D
Signal(s) : FID2B.CH
Acq On : 20 May 2025 12:27
Operator : YP/AJ
Sample : Q2074-03
Misc : 5.74G/5.00 ML DI WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
FID_B
ClientSampleId :
TP-15

Integration File: Calibration.e
Quant Time: May 20 23:34:42 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.: -0.002 mi
Response: 393017
Conc: 18.18 ng/m

Instrument :
FID_B
ClientSampleId :
TP-15

6
A
B
C
D
E
F
G
H
I

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB052025\
Data File : FB031785.D
Signal(s) : FID2B.CH
Acq On : 20 May 2025 12:27
Sample : Q2074-03
Misc : 5.74G/5.00 ML DI WATER
ALS Vial : 7 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	4.673	4.637	4.729	BV	6	251	0.06%	0.043%
2	4.738	4.729	4.807	PV	24	416	0.10%	0.071%
3	5.235	5.222	5.247	PV	9	71	0.02%	0.012%
4	5.531	5.522	5.595	VV	41	1002	0.24%	0.171%
5	5.603	5.595	5.631	VV	21	355	0.09%	0.061%
6	5.664	5.631	5.678	VV	32	542	0.13%	0.093%
7	5.685	5.678	5.712	VV	22	345	0.08%	0.059%
8	5.743	5.712	5.776	VV	29	675	0.16%	0.115%
9	5.787	5.776	5.832	PV	31	666	0.16%	0.114%
10	5.877	5.832	5.886	VV	31	748	0.18%	0.128%
11	5.896	5.886	5.910	VV	32	298	0.07%	0.051%
12	5.973	5.910	5.988	VV	31	1023	0.25%	0.175%
13	5.995	5.988	6.010	VV	27	211	0.05%	0.036%
14	6.036	6.010	6.080	VV	33	837	0.20%	0.143%
15	6.106	6.080	6.118	PV	28	348	0.08%	0.060%
16	6.127	6.118	6.151	VV	28	309	0.07%	0.053%
17	6.169	6.151	6.204	VV	34	625	0.15%	0.107%
18	6.232	6.204	6.274	VV	42	872	0.21%	0.149%
19	6.302	6.274	6.312	VV	30	392	0.09%	0.067%
20	6.341	6.312	6.349	VV	52	859	0.21%	0.147%
21	6.364	6.349	6.383	VV	60	1028	0.25%	0.176%
22	6.394	6.383	6.505	VV	60	2464	0.59%	0.422%
23	6.514	6.505	6.527	VV	20	200	0.05%	0.034%
24	6.542	6.527	6.564	VV	30	453	0.11%	0.078%
25	6.577	6.564	6.585	VV	12	112	0.03%	0.019%
26	6.614	6.585	6.639	VV	29	486	0.12%	0.083%
27	6.654	6.639	6.669	VV	20	230	0.06%	0.039%
28	6.675	6.669	6.686	VV	23	113	0.03%	0.019%
29	6.703	6.686	6.717	VV	14	145	0.03%	0.025%
30	6.727	6.717	6.761	PV	23	253	0.06%	0.043%
31	6.776	6.761	6.783	VV	16	109	0.03%	0.019%
32	6.803	6.783	6.851	VV	18	565	0.14%	0.097%
33	6.861	6.851	6.880	VV	23	230	0.06%	0.039%
34	6.891	6.880	6.915	VV	25	278	0.07%	0.048%
35	6.942	6.915	6.988	PV	18	450	0.11%	0.077%
36	7.001	6.988	7.031	VV	23	447	0.11%	0.076%

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37	7.038	7.031	7.050	VV	32	267	0.06%	0.046%
38	7.060	7.050	7.081	VV	25	367	0.09%	0.063%
39	7.089	7.081	7.141	VV	30	769	0.18%	0.132%
40	7.160	7.141	7.168	VV	24	274	0.07%	0.047%
41	7.177	7.168	7.186	VV	24	183	0.04%	0.031%
42	7.195	7.186	7.204	VV	24	142	0.03%	0.024%
43	7.215	7.204	7.225	VV	17	177	0.04%	0.030%
44	7.234	7.225	7.262	VV	22	285	0.07%	0.049%
45	7.286	7.262	7.295	VV	23	279	0.07%	0.048%
46	7.305	7.295	7.314	VV	17	117	0.03%	0.020%
47	7.373	7.314	7.388	VV	26	768	0.18%	0.131%
48	7.401	7.388	7.420	VV	33	401	0.10%	0.069%
49	7.444	7.420	7.468	VV	27	495	0.12%	0.085%
50	7.489	7.468	7.522	VV	32	604	0.14%	0.103%
51	7.534	7.522	7.545	VV	27	198	0.05%	0.034%
52	7.563	7.545	7.574	VV	26	282	0.07%	0.048%
53	7.583	7.574	7.591	VV	19	142	0.03%	0.024%
54	7.599	7.591	7.649	VV	15	275	0.07%	0.047%
55	7.715	7.649	7.724	VV	30	847	0.20%	0.145%
56	7.751	7.724	7.789	PV	37	742	0.18%	0.127%
57	7.820	7.789	7.894	VV	28	1336	0.32%	0.229%
58	8.019	7.894	8.089	VV	35	2530	0.61%	0.433%
59	8.124	8.089	8.158	VV	32	984	0.24%	0.168%
60	8.201	8.158	8.233	VV	35	1263	0.30%	0.216%
61	8.260	8.233	8.294	VV	40	1118	0.27%	0.191%
62	8.313	8.294	8.400	VV	42	1731	0.42%	0.296%
63	8.477	8.400	8.520	VV	29	1659	0.40%	0.284%
64	8.558	8.520	8.618	VV	25	1281	0.31%	0.219%
65	8.794	8.618	9.188	VV	6812	416520	100.00%	71.292%
66	9.210	9.188	9.266	VV	35	1002	0.24%	0.171%
67	9.298	9.266	9.314	VV	28	491	0.12%	0.084%
68	9.383	9.314	9.422	VV	27	1109	0.27%	0.190%
69	9.449	9.422	9.473	VV	21	484	0.12%	0.083%
70	9.513	9.473	9.527	VV	19	430	0.10%	0.074%
71	9.555	9.527	9.594	VV	27	583	0.14%	0.100%
72	9.614	9.594	9.655	VV	15	416	0.10%	0.071%
73	9.670	9.655	9.687	VV	22	269	0.06%	0.046%
74	9.707	9.687	9.780	VV	27	790	0.19%	0.135%
75	9.851	9.780	9.867	VV	29	937	0.22%	0.160%
76	9.894	9.867	9.926	VV	26	684	0.16%	0.117%
77	9.957	9.926	9.981	VV	26	699	0.17%	0.120%
78	10.005	9.981	10.043	VV	24	685	0.16%	0.117%
79	10.045	10.043	10.058	VV	25	181	0.04%	0.031%
80	10.072	10.058	10.095	VV	30	362	0.09%	0.062%
81	10.107	10.095	10.133	VV	22	354	0.08%	0.061%
82	10.167	10.133	10.218	VV	27	835	0.20%	0.143%
83	10.257	10.218	10.272	VV	38	736	0.18%	0.126%
84	10.373	10.272	10.424	VV	68	4486	1.08%	0.768%
85	10.430	10.424	10.507	VV	58	2085	0.50%	0.357%
86	10.520	10.507	10.536	VV	31	466	0.11%	0.080%
87	10.624	10.536	10.708	VV	79	5004	1.20%	0.856%
88	10.741	10.708	10.767	VV	44	1149	0.28%	0.197%
89	10.784	10.767	10.830	VV	31	864	0.21%	0.148%

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90	10.840	10.830	10.855	VV	34	311	0.07%	0.053%
91	10.884	10.855	10.907	VV	26	616	0.15%	0.105%
92	10.918	10.907	10.942	VV	21	273	0.07%	0.047%
93	10.977	10.942	11.022	VV	26	901	0.22%	0.154%
94	11.039	11.022	11.086	VV	19	599	0.14%	0.103%
95	11.101	11.086	11.125	VV	21	410	0.10%	0.070%
96	11.152	11.125	11.180	VV	27	707	0.17%	0.121%
97	11.197	11.180	11.215	VV	29	348	0.08%	0.060%
98	11.232	11.215	11.251	VV	27	297	0.07%	0.051%
99	11.276	11.251	11.303	PV	17	373	0.09%	0.064%
100	11.315	11.303	11.335	VV	13	226	0.05%	0.039%
101	11.367	11.335	11.404	VV	34	688	0.17%	0.118%
102	11.425	11.404	11.556	VV	41	1996	0.48%	0.342%
103	11.574	11.556	11.605	VV	44	612	0.15%	0.105%
104	11.625	11.605	11.642	VV	22	329	0.08%	0.056%
105	11.694	11.642	11.713	VV	21	712	0.17%	0.122%
106	11.724	11.713	11.749	VV	22	485	0.12%	0.083%
107	11.763	11.749	11.793	VV	31	524	0.13%	0.090%
108	11.821	11.793	11.893	VV	33	1361	0.33%	0.233%
109	11.907	11.893	11.960	VV	27	916	0.22%	0.157%
110	11.981	11.960	11.999	VV	27	428	0.10%	0.073%
111	12.024	11.999	12.082	VV	27	876	0.21%	0.150%
112	12.123	12.082	12.166	VV	27	910	0.22%	0.156%
113	12.187	12.166	12.228	VV	26	505	0.12%	0.086%
114	12.248	12.228	12.283	VV	27	484	0.12%	0.083%
115	12.301	12.283	12.317	VV	18	227	0.05%	0.039%
116	12.340	12.317	12.363	PV	16	327	0.08%	0.056%
117	12.411	12.363	12.453	VV	40	971	0.23%	0.166%
118	12.479	12.453	12.506	VV	24	382	0.09%	0.065%
119	12.525	12.506	12.553	VV	28	461	0.11%	0.079%
120	12.590	12.553	12.606	VV	22	409	0.10%	0.070%
121	12.619	12.606	12.662	VV	32	641	0.15%	0.110%
122	12.749	12.662	12.829	VV	55	3121	0.75%	0.534%
123	12.844	12.829	12.893	VV	31	530	0.13%	0.091%
124	12.924	12.893	12.939	PV	31	476	0.11%	0.082%
125	12.957	12.939	12.986	VV	33	598	0.14%	0.102%
126	13.022	12.986	13.085	VV	44	1981	0.48%	0.339%
127	13.100	13.085	13.121	VV	51	820	0.20%	0.140%
128	13.191	13.121	13.313	VV	101	6325	1.52%	1.083%
129	13.328	13.313	13.346	VV	29	416	0.10%	0.071%
130	13.400	13.346	13.439	VV	27	993	0.24%	0.170%
131	13.489	13.439	13.519	VV	40	1053	0.25%	0.180%
132	13.544	13.519	13.589	VV	32	913	0.22%	0.156%
133	13.603	13.589	13.637	VV	25	559	0.13%	0.096%
134	13.653	13.637	13.676	VV	21	366	0.09%	0.063%
135	13.726	13.676	13.785	VV	38	1243	0.30%	0.213%
136	13.816	13.785	13.841	VV	33	594	0.14%	0.102%
137	13.927	13.841	13.980	VV	69	3844	0.92%	0.658%
138	14.112	13.980	14.276	VV	168	16330	3.92%	2.795%
139	14.321	14.276	14.345	VV	31	898	0.22%	0.154%
140	14.360	14.345	14.402	VV	36	794	0.19%	0.136%
141	14.511	14.402	14.532	VV	35	1556	0.37%	0.266%

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142	14.539	14.532	14.566	VV	26	347	0.08%	0.059%
143	14.603	14.566	14.661	VV	28	843	0.20%	0.144%
144	14.749	14.661	14.799	VV	22	866	0.21%	0.148%
145	14.827	14.799	14.863	VV	25	470	0.11%	0.080%
146	14.894	14.863	14.936	VV	30	495	0.12%	0.085%
147	15.059	14.936	15.143	VV	79	4474	1.07%	0.766%
148	15.165	15.143	15.192	VV	25	636	0.15%	0.109%
149	15.218	15.192	15.269	VV	35	961	0.23%	0.164%
150	15.286	15.269	15.301	PV	31	264	0.06%	0.045%
151	15.419	15.301	15.559	VV	83	6789	1.63%	1.162%
152	15.576	15.559	15.607	VV	35	809	0.19%	0.138%
153	15.627	15.607	15.643	VV	42	643	0.15%	0.110%
154	15.701	15.643	15.728	VV	44	1792	0.43%	0.307%
155	15.774	15.728	15.854	VV	52	3355	0.81%	0.574%
156	15.876	15.854	15.932	VV	50	1866	0.45%	0.319%
157	15.946	15.932	16.054	VV	39	2008	0.48%	0.344%
158	16.073	16.054	16.090	VV	24	294	0.07%	0.050%
159	16.207	16.090	16.263	PV	121	5766	1.38%	0.987%
160	16.288	16.263	16.314	VV	39	904	0.22%	0.155%
161	16.364	16.314	16.378	VV	36	1044	0.25%	0.179%
162	16.391	16.378	16.472	VV	41	1363	0.33%	0.233%
163	16.501	16.472	16.539	VV	23	618	0.15%	0.106%
164	16.565	16.539	16.577	VV	29	434	0.10%	0.074%
165	16.619	16.577	16.685	VV	45	1991	0.48%	0.341%
166	16.712	16.685	16.734	VV	42	619	0.15%	0.106%
167	16.751	16.734	16.767	VV	24	312	0.08%	0.053%
168	16.792	16.767	16.814	VV	35	505	0.12%	0.086%
169	16.829	16.814	16.881	VV	28	649	0.16%	0.111%
170	16.938	16.881	16.972	VV	22	864	0.21%	0.148%

Sum of corrected areas: 584244

FB051925.M Wed May 21 00:22:25 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB052025\
Data File : FB031786.D
Signal(s) : FID2B.CH
Acq On : 20 May 2025 13:11
Operator : YP/AJ
Sample : Q2074-04
Misc : 7.90G/5.00 ML DI WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
FID_B
ClientSampleId :
TP-20

Integration File: Calibration.e
Quant Time: May 20 23:34:54 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	426856	19.740 ng/ml
	Target Compounds			

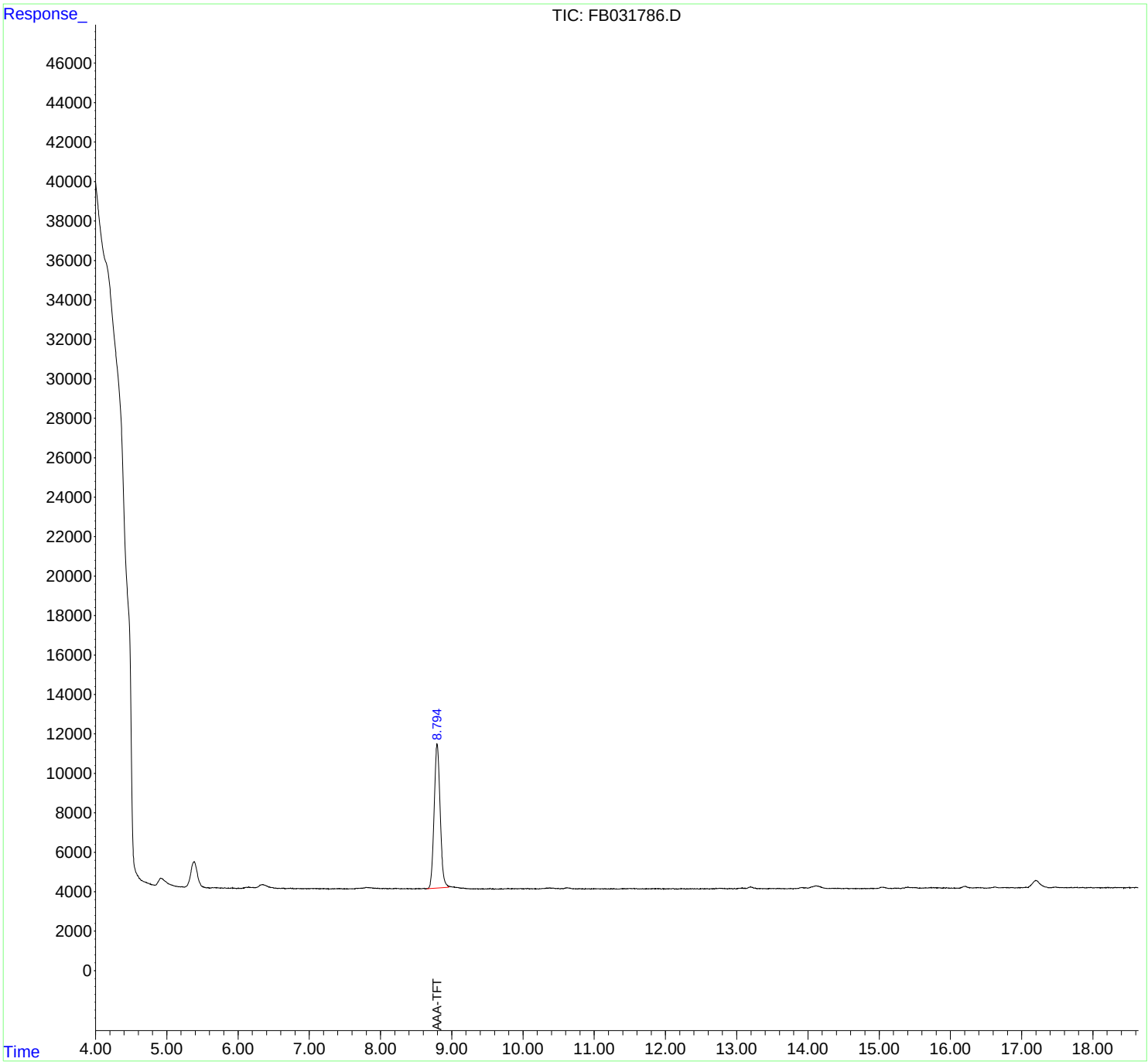
(f)=RT Delta > 1/2 Window (m)=manual int.

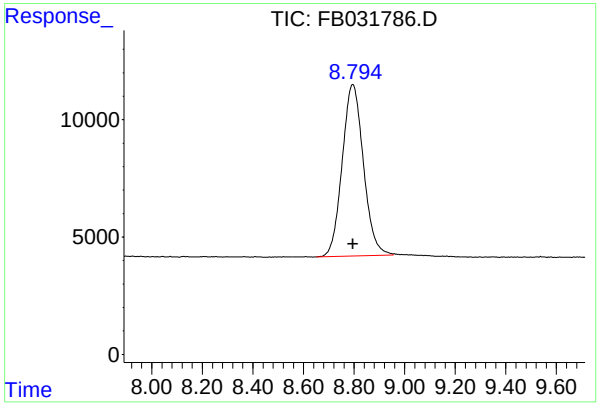
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB052025\
Data File : FB031786.D
Signal(s) : FID2B.CH
Acq On : 20 May 2025 13:11
Operator : YP/AJ
Sample : Q2074-04
Misc : 7.90G/5.00 ML DI WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
FID_B
ClientSampleId :
TP-20

Integration File: Calibration.e
Quant Time: May 20 23:34:54 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.:	0.000 min
Response:	426856
Conc:	19.74 ng/mL

Instrument :
FID_B
ClientSampleId :
TP-20

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB052025\
Data File : FB031786.D
Signal(s) : FID2B.CH
Acq On : 20 May 2025 13:11
Sample : Q2074-04
Misc : 7.90G/5.00 ML DI WATER
ALS Vial : 10 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	5.118	5.111	5.133	VV	29	276	0.06%	0.043%
2	5.140	5.133	5.179	VV	22	257	0.06%	0.040%
3	5.189	5.179	5.208	VV	14	181	0.04%	0.028%
4	5.214	5.208	5.248	VV	25	309	0.07%	0.048%
5	5.555	5.549	5.563	VV	19	133	0.03%	0.021%
6	5.572	5.563	5.605	VV	28	409	0.09%	0.064%
7	5.638	5.605	5.662	PV	39	797	0.18%	0.124%
8	5.680	5.662	5.691	VV	45	580	0.13%	0.090%
9	5.700	5.691	5.737	VV	36	740	0.16%	0.115%
10	5.751	5.737	5.790	VV	29	668	0.15%	0.104%
11	5.812	5.790	5.837	VV	34	617	0.14%	0.096%
12	5.865	5.837	5.888	VV	34	536	0.12%	0.083%
13	5.908	5.888	5.974	VV	30	1180	0.26%	0.183%
14	5.992	5.974	6.000	PV	20	192	0.04%	0.030%
15	6.014	6.000	6.032	VV	32	328	0.07%	0.051%
16	6.118	6.032	6.141	VV	79	2846	0.63%	0.442%
17	6.149	6.141	6.187	VV	93	1955	0.43%	0.303%
18	6.211	6.187	6.223	VV	76	1383	0.31%	0.215%
19	6.344	6.223	6.552	VV	213	21322	4.74%	3.310%
20	6.561	6.552	6.604	VV	32	837	0.19%	0.130%
21	6.621	6.604	6.631	VV	42	493	0.11%	0.077%
22	6.639	6.631	6.658	VV	39	427	0.09%	0.066%
23	6.691	6.658	6.721	VV	24	721	0.16%	0.112%
24	6.736	6.721	6.757	VV	46	586	0.13%	0.091%
25	6.768	6.757	6.779	VV	39	310	0.07%	0.048%
26	6.793	6.779	6.822	VV	22	331	0.07%	0.051%
27	6.834	6.822	6.865	VV	22	439	0.10%	0.068%
28	6.876	6.865	6.900	VV	20	307	0.07%	0.048%
29	6.939	6.900	6.966	VV	22	584	0.13%	0.091%
30	6.978	6.966	7.001	VV	27	315	0.07%	0.049%
31	7.032	7.001	7.059	VV	25	662	0.15%	0.103%
32	7.068	7.059	7.142	VV	27	1014	0.23%	0.157%
33	7.151	7.142	7.159	PV	21	122	0.03%	0.019%
34	7.172	7.159	7.182	VV	20	212	0.05%	0.033%
35	7.192	7.182	7.243	VV	22	622	0.14%	0.097%
36	7.251	7.243	7.269	VV	22	258	0.06%	0.040%

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37	7.276	7.269	7.290	VV	19	105	0.02%	0.016%
38	7.303	7.290	7.318	PV	16	155	0.03%	0.024%
39	7.329	7.318	7.346	VV	22	198	0.04%	0.031%
40	7.358	7.346	7.371	VV	20	227	0.05%	0.035%
41	7.396	7.371	7.441	VV	24	820	0.18%	0.127%
42	7.449	7.441	7.462	VV	22	210	0.05%	0.033%
43	7.477	7.462	7.502	VV	16	288	0.06%	0.045%
44	7.561	7.502	7.601	VV	18	760	0.17%	0.118%
45	7.621	7.601	7.638	VV	21	342	0.08%	0.053%
46	7.668	7.638	7.702	VV	39	1226	0.27%	0.190%
47	7.799	7.702	7.952	VV	86	8532	1.90%	1.325%
48	7.960	7.952	8.027	VV	50	1403	0.31%	0.218%
49	8.044	8.027	8.061	VV	42	605	0.13%	0.094%
50	8.074	8.061	8.111	VV	41	720	0.16%	0.112%
51	8.127	8.111	8.169	VV	43	921	0.20%	0.143%
52	8.207	8.169	8.231	VV	37	1031	0.23%	0.160%
53	8.245	8.231	8.282	VV	34	781	0.17%	0.121%
54	8.301	8.282	8.349	VV	26	848	0.19%	0.132%
55	8.369	8.349	8.393	VV	30	621	0.14%	0.096%
56	8.410	8.393	8.447	VV	36	690	0.15%	0.107%
57	8.526	8.447	8.575	VV	26	1589	0.35%	0.247%
58	8.795	8.575	9.140	VV	7369	449803	100.00%	69.835%
59	9.155	9.140	9.291	VV	56	2965	0.66%	0.460%
60	9.321	9.291	9.376	VV	26	938	0.21%	0.146%
61	9.390	9.376	9.464	VV	22	813	0.18%	0.126%
62	9.539	9.464	9.564	VV	45	1240	0.28%	0.193%
63	9.578	9.564	9.599	VV	29	315	0.07%	0.049%
64	9.618	9.599	9.661	PV	19	384	0.09%	0.060%
65	9.692	9.661	9.725	VV	22	614	0.14%	0.095%
66	9.793	9.725	9.831	VV	44	1619	0.36%	0.251%
67	9.845	9.831	9.862	VV	33	453	0.10%	0.070%
68	9.900	9.862	9.916	VV	36	796	0.18%	0.124%
69	9.963	9.916	10.019	VV	37	1577	0.35%	0.245%
70	10.035	10.019	10.049	VV	38	480	0.11%	0.074%
71	10.064	10.049	10.100	VV	45	811	0.18%	0.126%
72	10.123	10.100	10.181	VV	32	990	0.22%	0.154%
73	10.201	10.181	10.224	VV	26	469	0.10%	0.073%
74	10.373	10.224	10.482	VV	61	6565	1.46%	1.019%
75	10.494	10.482	10.525	VV	43	747	0.17%	0.116%
76	10.548	10.525	10.564	VV	34	621	0.14%	0.096%
77	10.614	10.564	10.767	VV	70	4741	1.05%	0.736%
78	10.787	10.767	10.826	VV	28	706	0.16%	0.110%
79	10.841	10.826	10.882	VV	20	463	0.10%	0.072%
80	10.915	10.882	10.948	VV	26	713	0.16%	0.111%
81	11.011	10.948	11.027	VV	28	815	0.18%	0.127%
82	11.046	11.027	11.083	VV	22	561	0.12%	0.087%
83	11.106	11.083	11.130	VV	19	444	0.10%	0.069%
84	11.147	11.130	11.184	VV	22	541	0.12%	0.084%
85	11.199	11.184	11.226	VV	16	322	0.07%	0.050%
86	11.239	11.226	11.265	VV	26	324	0.07%	0.050%
87	11.277	11.265	11.326	VV	33	528	0.12%	0.082%
88	11.430	11.326	11.478	VV	36	1726	0.38%	0.268%
89	11.507	11.478	11.582	VV	35	1667	0.37%	0.259%

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90	11.595	11.582	11.633	VV	33	619	0.14%	0.096%
91	11.647	11.633	11.661	VV	22	268	0.06%	0.042%
92	11.677	11.661	11.712	VV	24	480	0.11%	0.075%
93	11.777	11.712	11.804	VV	21	915	0.20%	0.142%
94	11.817	11.804	11.905	VV	33	1384	0.31%	0.215%
95	11.915	11.905	11.942	VV	25	411	0.09%	0.064%
96	11.963	11.942	11.995	VV	24	515	0.11%	0.080%
97	12.026	11.995	12.044	VV	25	429	0.10%	0.067%
98	12.068	12.044	12.082	VV	19	407	0.09%	0.063%
99	12.103	12.082	12.130	VV	35	596	0.13%	0.093%
100	12.151	12.130	12.172	VV	22	256	0.06%	0.040%
101	12.237	12.172	12.283	PV	22	1087	0.24%	0.169%
102	12.303	12.283	12.317	VV	31	298	0.07%	0.046%
103	12.351	12.317	12.363	VV	26	444	0.10%	0.069%
104	12.379	12.363	12.427	VV	28	618	0.14%	0.096%
105	12.445	12.427	12.470	VV	26	340	0.08%	0.053%
106	12.520	12.470	12.535	VV	21	542	0.12%	0.084%
107	12.552	12.535	12.617	VV	32	775	0.17%	0.120%
108	12.648	12.617	12.687	PV	22	570	0.13%	0.089%
109	12.710	12.687	12.726	VV	37	565	0.13%	0.088%
110	12.762	12.726	12.876	VV	44	2492	0.55%	0.387%
111	12.895	12.876	12.954	VV	35	957	0.21%	0.149%
112	12.969	12.954	12.993	VV	35	444	0.10%	0.069%
113	13.082	12.993	13.138	VV	58	3134	0.70%	0.487%
114	13.194	13.138	13.341	VV	107	6303	1.40%	0.979%
115	13.348	13.341	13.366	VV	24	256	0.06%	0.040%
116	13.387	13.366	13.427	PV	27	557	0.12%	0.086%
117	13.467	13.427	13.486	VV	29	642	0.14%	0.100%
118	13.502	13.486	13.515	VV	25	377	0.08%	0.059%
119	13.529	13.515	13.549	VV	25	395	0.09%	0.061%
120	13.574	13.549	13.703	VV	33	1543	0.34%	0.240%
121	13.755	13.703	13.797	VV	28	840	0.19%	0.130%
122	13.919	13.797	13.951	VV	72	3693	0.82%	0.573%
123	13.974	13.951	13.995	VV	59	1346	0.30%	0.209%
124	14.115	13.995	14.279	VV	158	14665	3.26%	2.277%
125	14.341	14.279	14.402	VV	33	1760	0.39%	0.273%
126	14.417	14.402	14.472	VV	40	890	0.20%	0.138%
127	14.486	14.472	14.500	VV	22	217	0.05%	0.034%
128	14.540	14.500	14.585	VV	30	814	0.18%	0.126%
129	14.618	14.585	14.649	VV	21	483	0.11%	0.075%
130	14.660	14.649	14.685	VV	21	225	0.05%	0.035%
131	14.707	14.685	14.731	PV	19	253	0.06%	0.039%
132	14.747	14.731	14.763	VV	14	159	0.04%	0.025%
133	14.797	14.763	14.812	VV	20	304	0.07%	0.047%
134	14.885	14.812	14.916	VV	20	729	0.16%	0.113%
135	15.034	14.916	15.140	VV	75	4985	1.11%	0.774%
136	15.161	15.140	15.189	VV	16	402	0.09%	0.062%
137	15.220	15.189	15.245	VV	27	638	0.14%	0.099%
138	15.257	15.245	15.306	VV	26	625	0.14%	0.097%
139	15.337	15.306	15.351	VV	33	715	0.16%	0.111%
140	15.409	15.351	15.473	VV	80	4033	0.90%	0.626%
141	15.485	15.473	15.574	VV	55	2327	0.52%	0.361%

rteres

142	15.585	15.574	15.616	VV	27	573	0.13%	0.089%
143	15.646	15.616	15.679	VV	37	1069	0.24%	0.166%
144	15.714	15.679	15.875	VV	48	4119	0.92%	0.640%
145	15.909	15.875	15.935	VV	42	955	0.21%	0.148%
146	15.948	15.935	16.007	VV	42	1010	0.22%	0.157%
147	16.016	16.007	16.032	VV	29	242	0.05%	0.038%
148	16.052	16.032	16.085	VV	21	454	0.10%	0.070%
149	16.205	16.085	16.311	VV	110	6353	1.41%	0.986%
150	16.384	16.311	16.480	VV	41	2625	0.58%	0.408%
151	16.625	16.480	16.712	PV	62	3857	0.86%	0.599%
152	16.768	16.712	16.831	VV	35	1728	0.38%	0.268%
153	16.844	16.831	16.902	VV	33	828	0.18%	0.129%
154	16.999	16.902	17.015	PV	10	411	0.09%	0.064%
155	17.065	17.015	17.080	PV	29	373	0.08%	0.058%

Sum of corrected areas: 644093

FB051925.M Wed May 21 00:23:11 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB052125\
Data File : FB031801.D
Signal(s) : FID2B.CH
Acq On : 21 May 2025 11:08
Operator : YP/AJ
Sample : Q2074-05 50X
Misc : 6.90G/5.00 ML MEOH
ALS Vial : 5 Sample Multiplier: 1

Instrument :
FID_B
ClientSampleId :
TP-38

Integration File: Calibration.e
Quant Time: May 22 01:48:29 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	497848	23.023 ng/ml
Target Compounds			

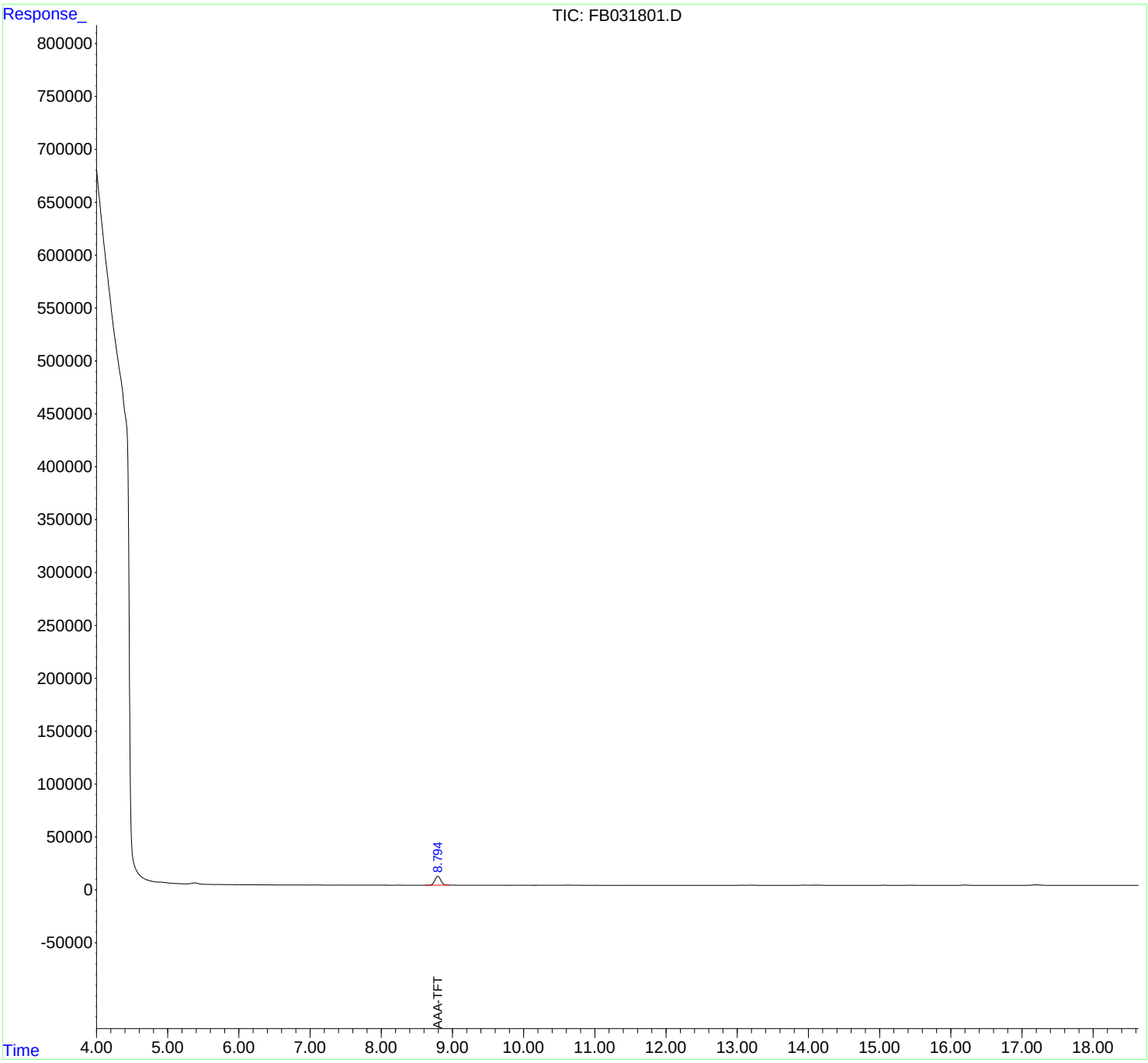
(f)=RT Delta > 1/2 Window (m)=manual int.

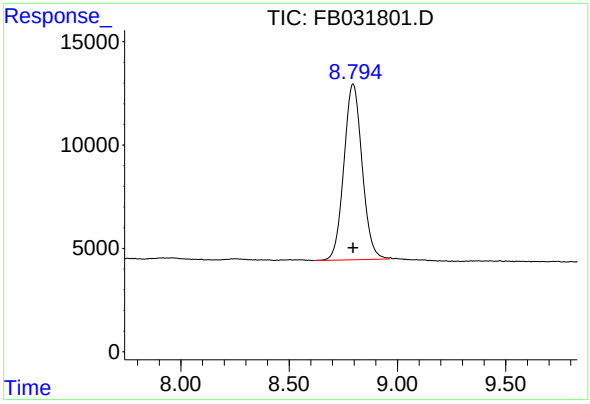
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB052125\
Data File : FB031801.D
Signal(s) : FID2B.CH
Acq On : 21 May 2025 11:08
Operator : YP/AJ
Sample : Q2074-05 50X
Misc : 6.90G/5.00 ML MEOH
ALS Vial : 5 Sample Multiplier: 1

Instrument :
FID_B
ClientSampleId :
TP-38

Integration File: Calibration.e
Quant Time: May 22 01:48:29 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.:	0.000 min
Response:	497848
Conc:	23.02 ng/ml

Instrument :
FID_B
ClientSampleId :
TP-38

6

A B C D E F G H I

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB052125\
Data File : FB031801.D
Signal(s) : FID2B.CH
Acq On : 21 May 2025 11:08
Sample : Q2074-05 50X
Misc : 6.90G/5.00 ML MEOH
ALS Vial : 5 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	5.743	5.732	5.781	PV	25	563	0.11%	0.073%
2	5.789	5.781	5.828	VV	33	350	0.07%	0.045%
3	5.837	5.828	5.864	PV	16	198	0.04%	0.026%
4	5.872	5.864	5.883	VV	21	149	0.03%	0.019%
5	5.887	5.883	5.981	VV	14	426	0.08%	0.055%
6	5.999	5.981	6.012	PV	15	210	0.04%	0.027%
7	6.026	6.012	6.053	VV	31	495	0.10%	0.064%
8	6.064	6.053	6.076	VV	28	242	0.05%	0.031%
9	6.084	6.076	6.113	VV	32	400	0.08%	0.052%
10	6.133	6.113	6.143	VV	35	475	0.09%	0.062%
11	6.152	6.143	6.158	VV	32	281	0.06%	0.037%
12	6.172	6.158	6.201	VV	57	1226	0.24%	0.159%
13	6.208	6.201	6.258	VV	63	1608	0.32%	0.209%
14	6.268	6.258	6.277	VV	37	286	0.06%	0.037%
15	6.283	6.277	6.319	VV	31	702	0.14%	0.091%
16	6.340	6.319	6.406	VV	50	2493	0.49%	0.324%
17	6.412	6.406	6.502	VV	54	1242	0.24%	0.161%
18	6.510	6.502	6.540	VV	15	219	0.04%	0.028%
19	6.559	6.540	6.576	PV	27	259	0.05%	0.034%
20	6.584	6.576	6.610	VV	18	234	0.05%	0.030%
21	6.620	6.610	6.685	VV	25	389	0.08%	0.051%
22	6.713	6.685	6.736	PV	30	542	0.11%	0.070%
23	6.745	6.736	6.758	VV	31	237	0.05%	0.031%
24	6.767	6.758	6.789	VV	22	270	0.05%	0.035%
25	6.796	6.789	6.827	VV	21	413	0.08%	0.054%
26	6.838	6.827	6.928	VV	43	1601	0.31%	0.208%
27	6.936	6.928	6.964	VV	27	192	0.04%	0.025%
28	6.978	6.964	6.994	PV	20	204	0.04%	0.027%
29	7.012	6.994	7.020	VV	34	346	0.07%	0.045%
30	7.066	7.020	7.104	VV	70	2814	0.55%	0.366%
31	7.111	7.104	7.141	VV	67	1154	0.23%	0.150%
32	7.151	7.141	7.184	VV	59	1124	0.22%	0.146%
33	7.193	7.184	7.204	VV	33	235	0.05%	0.031%
34	7.214	7.204	7.230	VV	25	206	0.04%	0.027%
35	7.241	7.230	7.248	PV	12	76	0.01%	0.010%
36	7.265	7.248	7.272	VV	22	197	0.04%	0.026%

rteres

37	7.282	7.272	7.294	VV	28	230	0.05%	0.030%
38	7.322	7.294	7.338	VV	50	778	0.15%	0.101%
39	7.378	7.338	7.401	VV	53	1498	0.29%	0.195%
40	7.419	7.401	7.435	VV	69	1138	0.22%	0.148%
41	7.446	7.435	7.488	VV	62	1351	0.27%	0.176%
42	7.497	7.488	7.535	VV	26	508	0.10%	0.066%
43	7.543	7.535	7.577	VV	23	359	0.07%	0.047%
44	7.584	7.577	7.600	VV	19	203	0.04%	0.026%
45	7.610	7.600	7.618	VV	26	186	0.04%	0.024%
46	7.647	7.618	7.668	VV	36	594	0.12%	0.077%
47	7.686	7.668	7.696	PV	23	246	0.05%	0.032%
48	7.719	7.696	7.733	VV	41	659	0.13%	0.086%
49	7.753	7.733	7.833	VV	55	1964	0.39%	0.255%
50	7.870	7.833	7.878	VV	54	1007	0.20%	0.131%
51	7.918	7.878	7.945	VV	84	2849	0.56%	0.370%
52	7.961	7.945	8.061	VV	91	3696	0.73%	0.480%
53	8.069	8.061	8.118	VV	32	669	0.13%	0.087%
54	8.130	8.118	8.146	VV	10	107	0.02%	0.014%
55	8.164	8.146	8.183	PV	9	143	0.03%	0.019%
56	8.248	8.183	8.367	VV	68	4095	0.80%	0.532%
57	8.373	8.367	8.395	VV	26	341	0.07%	0.044%
58	8.403	8.395	8.432	VV	24	328	0.06%	0.043%
59	8.445	8.432	8.452	PV	12	76	0.02%	0.010%
60	8.505	8.452	8.518	VV	51	1106	0.22%	0.144%
61	8.530	8.518	8.560	VV	42	881	0.17%	0.114%
62	8.566	8.560	8.611	VV	34	586	0.12%	0.076%
63	8.795	8.611	8.960	VV	8565	508943	100.00%	66.100%
64	8.968	8.960	8.981	VV	163	1714	0.34%	0.223%
65	8.993	8.981	9.107	VV	136	6744	1.33%	0.876%
66	9.117	9.107	9.186	VV	70	2059	0.40%	0.267%
67	9.195	9.186	9.219	VV	28	399	0.08%	0.052%
68	9.225	9.219	9.247	VV	32	251	0.05%	0.033%
69	9.253	9.247	9.262	VV	21	107	0.02%	0.014%
70	9.279	9.262	9.294	VV	17	165	0.03%	0.021%
71	9.317	9.294	9.328	PV	23	257	0.05%	0.033%
72	9.340	9.328	9.392	VV	36	1100	0.22%	0.143%
73	9.411	9.392	9.419	VV	33	464	0.09%	0.060%
74	9.428	9.419	9.448	VV	40	534	0.10%	0.069%
75	9.474	9.448	9.491	VV	53	715	0.14%	0.093%
76	9.500	9.491	9.539	VV	42	672	0.13%	0.087%
77	9.548	9.539	9.571	VV	28	397	0.08%	0.052%
78	9.579	9.571	9.599	VV	29	337	0.07%	0.044%
79	9.608	9.599	9.618	VV	25	173	0.03%	0.022%
80	9.647	9.618	9.656	VV	21	331	0.07%	0.043%
81	9.668	9.656	9.699	VV	24	389	0.08%	0.051%
82	9.721	9.699	9.728	VV	31	374	0.07%	0.049%
83	9.744	9.728	9.759	VV	35	402	0.08%	0.052%
84	9.769	9.759	9.779	VV	19	91	0.02%	0.012%
85	9.804	9.779	9.821	PV	29	317	0.06%	0.041%
86	9.847	9.821	9.860	VV	40	429	0.08%	0.056%
87	9.870	9.860	9.883	VV	24	256	0.05%	0.033%
88	9.899	9.883	9.906	VV	40	424	0.08%	0.055%
89	9.917	9.906	9.951	VV	49	994	0.20%	0.129%

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90	9.960	9.951	9.970	VV	43	332	0.07%	0.043%
91	9.981	9.970	9.992	VV	33	306	0.06%	0.040%
92	10.005	9.992	10.015	VV	29	245	0.05%	0.032%
93	10.034	10.015	10.043	VV	26	270	0.05%	0.035%
94	10.049	10.043	10.054	VV	20	112	0.02%	0.015%
95	10.069	10.054	10.109	VV	27	657	0.13%	0.085%
96	10.115	10.109	10.132	VV	27	259	0.05%	0.034%
97	10.137	10.132	10.149	VV	30	207	0.04%	0.027%
98	10.157	10.149	10.162	VV	15	95	0.02%	0.012%
99	10.169	10.162	10.175	VV	21	116	0.02%	0.015%
100	10.188	10.175	10.195	VV	25	230	0.05%	0.030%
101	10.204	10.195	10.246	VV	42	916	0.18%	0.119%
102	10.293	10.246	10.305	VV	67	1667	0.33%	0.217%
103	10.375	10.305	10.385	VV	114	4288	0.84%	0.557%
104	10.391	10.385	10.409	VV	100	1349	0.27%	0.175%
105	10.426	10.409	10.452	VV	105	2401	0.47%	0.312%
106	10.463	10.452	10.479	VV	84	1279	0.25%	0.166%
107	10.503	10.479	10.532	VV	91	2523	0.50%	0.328%
108	10.632	10.532	10.755	VV	249	16636	3.27%	2.161%
109	10.771	10.755	10.869	VV	50	2605	0.51%	0.338%
110	10.881	10.869	10.891	VV	30	301	0.06%	0.039%
111	10.947	10.891	10.957	VV	43	1161	0.23%	0.151%
112	10.987	10.957	10.995	VV	50	925	0.18%	0.120%
113	11.009	10.995	11.042	VV	56	1237	0.24%	0.161%
114	11.050	11.042	11.068	VV	34	424	0.08%	0.055%
115	11.090	11.068	11.111	VV	37	697	0.14%	0.090%
116	11.119	11.111	11.126	VV	32	207	0.04%	0.027%
117	11.131	11.126	11.154	VV	27	189	0.04%	0.025%
118	11.169	11.154	11.208	PV	23	398	0.08%	0.052%
119	11.235	11.208	11.248	VV	22	399	0.08%	0.052%
120	11.259	11.248	11.268	VV	30	247	0.05%	0.032%
121	11.321	11.268	11.335	VV	41	974	0.19%	0.127%
122	11.342	11.335	11.369	VV	21	353	0.07%	0.046%
123	11.386	11.369	11.400	VV	34	503	0.10%	0.065%
124	11.454	11.400	11.472	VV	57	1689	0.33%	0.219%
125	11.483	11.472	11.505	VV	53	886	0.17%	0.115%
126	11.538	11.505	11.561	VV	51	1494	0.29%	0.194%
127	11.577	11.561	11.590	VV	58	738	0.14%	0.096%
128	11.608	11.590	11.621	VV	57	773	0.15%	0.100%
129	11.629	11.621	11.637	VV	41	294	0.06%	0.038%
130	11.677	11.637	11.720	VV	40	1470	0.29%	0.191%
131	11.766	11.720	11.821	VV	34	1282	0.25%	0.166%
132	11.837	11.821	11.896	PV	47	1433	0.28%	0.186%
133	11.906	11.896	11.941	VV	36	801	0.16%	0.104%
134	11.951	11.941	12.007	VV	35	1122	0.22%	0.146%
135	12.029	12.007	12.061	VV	32	711	0.14%	0.092%
136	12.075	12.061	12.138	VV	24	887	0.17%	0.115%
137	12.154	12.138	12.218	VV	26	937	0.18%	0.122%
138	12.235	12.218	12.279	VV	31	590	0.12%	0.077%
139	12.335	12.279	12.355	VV	31	861	0.17%	0.112%
140	12.399	12.355	12.429	VV	27	731	0.14%	0.095%
141	12.462	12.429	12.480	VV	26	539	0.11%	0.070%

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142	12.513	12.480	12.559	VV	39	966	0.19%	0.126%
143	12.577	12.559	12.599	VV	29	493	0.10%	0.064%
144	12.615	12.599	12.631	VV	28	460	0.09%	0.060%
145	12.667	12.631	12.697	VV	35	1009	0.20%	0.131%
146	12.757	12.697	12.791	VV	60	2228	0.44%	0.289%
147	12.804	12.791	12.896	VV	45	1539	0.30%	0.200%
148	13.078	12.896	13.127	VV	122	8229	1.62%	1.069%
149	13.201	13.127	13.335	VV	240	14610	2.87%	1.897%
150	13.353	13.335	13.412	VV	29	769	0.15%	0.100%
151	13.447	13.412	13.473	VV	29	708	0.14%	0.092%
152	13.485	13.473	13.507	VV	23	372	0.07%	0.048%
153	13.529	13.507	13.561	VV	31	692	0.14%	0.090%
154	13.574	13.561	13.597	VV	32	396	0.08%	0.051%
155	13.616	13.597	13.636	VV	25	351	0.07%	0.046%
156	13.656	13.636	13.703	VV	20	617	0.12%	0.080%
157	13.721	13.703	13.790	PV	27	845	0.17%	0.110%
158	13.932	13.790	14.011	VV	243	14467	2.84%	1.879%
159	14.120	14.011	14.296	VV	237	22528	4.43%	2.926%
160	14.399	14.296	14.496	VV	55	3616	0.71%	0.470%
161	14.518	14.496	14.533	VV	38	458	0.09%	0.060%
162	14.544	14.533	14.560	VV	22	274	0.05%	0.036%
163	14.610	14.560	14.642	VV	26	869	0.17%	0.113%
164	14.688	14.642	14.705	VV	30	711	0.14%	0.092%
165	14.723	14.705	14.766	PV	19	323	0.06%	0.042%
166	14.784	14.766	14.824	PV	12	223	0.04%	0.029%
167	14.852	14.824	14.911	VV	18	640	0.13%	0.083%
168	14.932	14.911	14.977	VV	26	652	0.13%	0.085%
169	15.054	14.977	15.158	VV	132	6449	1.27%	0.838%
170	15.224	15.158	15.248	VV	35	1383	0.27%	0.180%
171	15.285	15.248	15.298	VV	25	621	0.12%	0.081%
172	15.436	15.298	15.612	VV	94	8803	1.73%	1.143%
173	15.646	15.612	15.693	VV	36	1277	0.25%	0.166%
174	15.751	15.693	15.765	VV	48	1429	0.28%	0.186%
175	15.781	15.765	15.799	VV	58	828	0.16%	0.108%
176	15.852	15.799	15.873	VV	58	1936	0.38%	0.251%
177	15.927	15.873	15.966	VV	58	2470	0.49%	0.321%
178	15.968	15.966	16.049	VV	43	1104	0.22%	0.143%
179	16.092	16.049	16.105	VV	22	543	0.11%	0.071%
180	16.201	16.105	16.311	VV	337	16805	3.30%	2.183%
181	16.321	16.311	16.388	VV	50	1743	0.34%	0.226%
182	16.407	16.388	16.423	VV	39	667	0.13%	0.087%
183	16.435	16.423	16.486	VV	32	778	0.15%	0.101%
184	16.539	16.486	16.561	VV	31	893	0.18%	0.116%
185	16.647	16.561	16.693	VV	42	2027	0.40%	0.263%
186	16.741	16.693	16.759	VV	25	594	0.12%	0.077%
187	16.795	16.759	16.831	VV	39	887	0.17%	0.115%
188	16.839	16.831	16.855	VV	33	255	0.05%	0.033%
189	16.873	16.855	16.899	VV	23	357	0.07%	0.046%
190	16.932	16.899	16.961	VV	19	472	0.09%	0.061%
191	16.979	16.961	16.993	PV	18	150	0.03%	0.020%
			Sum of corrected areas:			769959		

rteres

FB051925.M Thu May 22 02:50:06 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB052025\
Data File : FB031788.D
Signal(s) : FID2B.CH
Acq On : 20 May 2025 14:06
Operator : YP/AJ
Sample : Q2074-06
Misc : 5.43G/5.00 ML DI WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
FID_B
ClientSampleId :
TP-19

Integration File: Calibration.e
Quant Time: May 20 23:35:17 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	230406	10.655 ng/ml
Target Compounds				

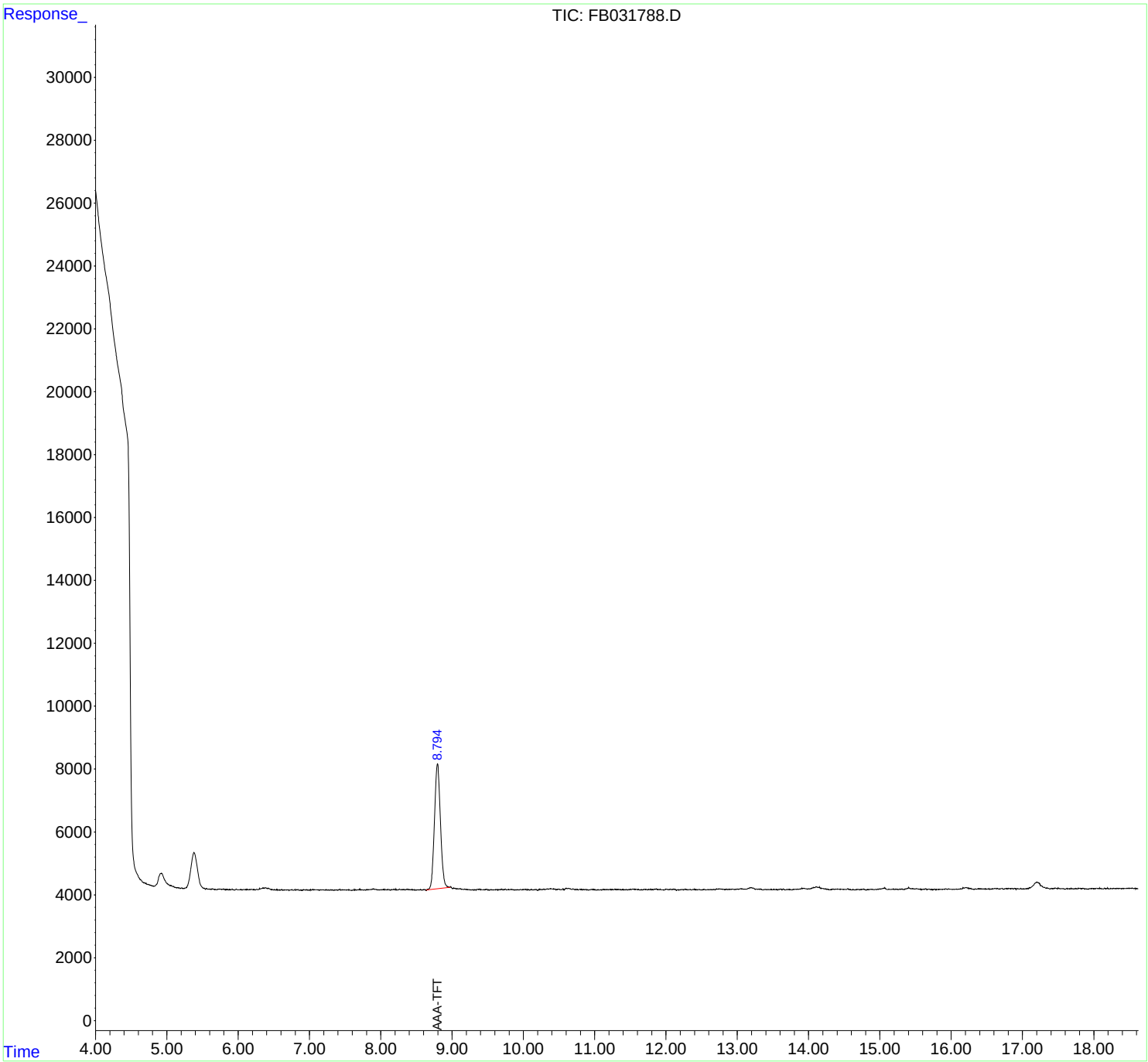
(f)=RT Delta > 1/2 Window (m)=manual int.

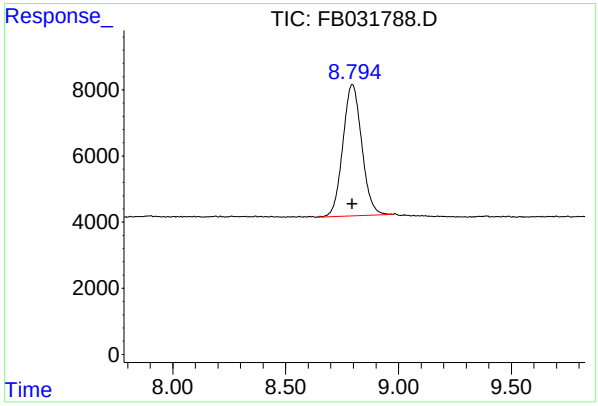
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB052025\
Data File : FB031788.D
Signal(s) : FID2B.CH
Acq On : 20 May 2025 14:06
Operator : YP/AJ
Sample : Q2074-06
Misc : 5.43G/5.00 ML DI WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
FID_B
ClientSampleId :
TP-19

Integration File: Calibration.e
Quant Time: May 20 23:35:17 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 mi
Response:	230406
Conc:	10.66 ng/m

Instrument :
FID_B
ClientSampleId :
TP-19

6

A B C D E F G H I

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB052025\
Data File : FB031788.D
Signal(s) : FID2B.CH
Acq On : 20 May 2025 14:06
Sample : Q2074-06
Misc : 5.43G/5.00 ML DI WATER
ALS Vial : 12 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	5.092	5.082	5.166	VV	45	1127	0.47%	0.268%
2	5.173	5.166	5.191	VV	17	138	0.06%	0.033%
3	5.211	5.191	5.233	PV	23	235	0.10%	0.056%
4	5.524	5.517	5.545	VV	43	361	0.15%	0.086%
5	5.559	5.545	5.574	VV	35	314	0.13%	0.075%
6	5.584	5.574	5.590	VV	16	125	0.05%	0.030%
7	5.595	5.590	5.611	VV	17	121	0.05%	0.029%
8	5.640	5.611	5.671	VV	24	498	0.21%	0.118%
9	5.681	5.671	5.694	VV	16	91	0.04%	0.022%
10	5.735	5.694	5.745	PV	25	382	0.16%	0.091%
11	5.748	5.745	5.785	VV	22	400	0.17%	0.095%
12	5.798	5.785	5.865	VV	32	754	0.31%	0.179%
13	5.887	5.865	5.899	VV	23	275	0.11%	0.065%
14	5.918	5.899	5.930	VV	31	344	0.14%	0.082%
15	5.942	5.930	5.952	VV	15	125	0.05%	0.030%
16	5.974	5.952	6.007	PV	30	545	0.23%	0.129%
17	6.034	6.007	6.062	VV	31	502	0.21%	0.119%
18	6.072	6.062	6.079	VV	18	151	0.06%	0.036%
19	6.088	6.079	6.097	VV	22	198	0.08%	0.047%
20	6.104	6.097	6.111	VV	18	150	0.06%	0.036%
21	6.121	6.111	6.138	VV	35	342	0.14%	0.081%
22	6.169	6.138	6.177	VV	29	419	0.17%	0.100%
23	6.189	6.177	6.211	VV	29	443	0.18%	0.105%
24	6.261	6.211	6.278	VV	34	810	0.34%	0.192%
25	6.299	6.278	6.307	VV	55	593	0.25%	0.141%
26	6.380	6.307	6.417	VV	83	4261	1.76%	1.012%
27	6.427	6.417	6.466	VV	67	1331	0.55%	0.316%
28	6.481	6.466	6.530	VV	27	755	0.31%	0.179%
29	6.546	6.530	6.571	VV	36	441	0.18%	0.105%
30	6.579	6.571	6.592	VV	24	176	0.07%	0.042%
31	6.616	6.592	6.635	VV	28	396	0.16%	0.094%
32	6.645	6.635	6.674	VV	17	345	0.14%	0.082%
33	6.683	6.674	6.689	VV	19	127	0.05%	0.030%
34	6.698	6.689	6.717	VV	22	233	0.10%	0.055%
35	6.755	6.717	6.772	VV	26	485	0.20%	0.115%
36	6.799	6.772	6.810	VV	19	336	0.14%	0.080%

rteres

37	6.822	6.810	6.830	VV	27	242	0.10%	0.057%
38	6.842	6.830	6.856	VV	29	330	0.14%	0.078%
39	6.871	6.856	6.901	PV	17	316	0.13%	0.075%
40	6.920	6.901	6.941	VV	30	479	0.20%	0.114%
41	6.956	6.941	6.965	VV	28	321	0.13%	0.076%
42	6.976	6.965	6.989	VV	21	231	0.10%	0.055%
43	7.017	6.989	7.026	VV	39	374	0.15%	0.089%
44	7.046	7.026	7.061	VV	35	510	0.21%	0.121%
45	7.090	7.061	7.134	VV	26	986	0.41%	0.234%
46	7.161	7.134	7.170	VV	23	380	0.16%	0.090%
47	7.181	7.170	7.189	VV	26	234	0.10%	0.056%
48	7.196	7.189	7.216	VV	27	295	0.12%	0.070%
49	7.236	7.216	7.262	VV	26	466	0.19%	0.111%
50	7.270	7.262	7.289	VV	27	255	0.11%	0.061%
51	7.304	7.289	7.318	VV	28	280	0.12%	0.066%
52	7.324	7.318	7.346	VV	25	227	0.09%	0.054%
53	7.354	7.346	7.388	VV	25	417	0.17%	0.099%
54	7.395	7.388	7.403	VV	18	126	0.05%	0.030%
55	7.428	7.403	7.469	VV	34	773	0.32%	0.184%
56	7.480	7.469	7.488	VV	25	217	0.09%	0.051%
57	7.495	7.488	7.506	VV	24	195	0.08%	0.046%
58	7.516	7.506	7.524	VV	25	186	0.08%	0.044%
59	7.534	7.524	7.546	VV	20	237	0.10%	0.056%
60	7.554	7.546	7.572	VV	29	284	0.12%	0.067%
61	7.580	7.572	7.598	VV	10	102	0.04%	0.024%
62	7.609	7.598	7.619	VV	18	129	0.05%	0.031%
63	7.629	7.619	7.637	VV	31	178	0.07%	0.042%
64	7.647	7.637	7.657	VV	31	221	0.09%	0.052%
65	7.675	7.657	7.684	VV	27	288	0.12%	0.068%
66	7.704	7.684	7.727	VV	50	667	0.28%	0.158%
67	7.742	7.727	7.760	VV	26	375	0.16%	0.089%
68	7.770	7.760	7.800	VV	24	423	0.18%	0.101%
69	7.814	7.800	7.823	VV	36	335	0.14%	0.080%
70	7.853	7.823	7.863	VV	33	653	0.27%	0.155%
71	7.904	7.863	7.969	VV	55	2200	0.91%	0.522%
72	7.977	7.969	7.992	VV	26	279	0.12%	0.066%
73	8.002	7.992	8.060	VV	29	972	0.40%	0.231%
74	8.069	8.060	8.082	VV	29	327	0.14%	0.078%
75	8.095	8.082	8.104	VV	41	368	0.15%	0.087%
76	8.118	8.104	8.129	VV	33	384	0.16%	0.091%
77	8.191	8.129	8.202	VV	45	1103	0.46%	0.262%
78	8.212	8.202	8.232	VV	49	478	0.20%	0.114%
79	8.262	8.232	8.295	VV	45	1040	0.43%	0.247%
80	8.324	8.295	8.353	VV	34	900	0.37%	0.214%
81	8.367	8.353	8.378	VV	47	474	0.20%	0.113%
82	8.392	8.378	8.401	VV	35	369	0.15%	0.088%
83	8.409	8.401	8.428	VV	30	398	0.16%	0.095%
84	8.438	8.428	8.451	VV	32	329	0.14%	0.078%
85	8.461	8.451	8.482	VV	26	350	0.15%	0.083%
86	8.492	8.482	8.501	VV	17	167	0.07%	0.040%
87	8.514	8.501	8.548	VV	22	548	0.23%	0.130%
88	8.561	8.548	8.579	VV	35	375	0.16%	0.089%
89	8.585	8.579	8.593	VV	26	184	0.08%	0.044%

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90	8.609	8.593	8.634	VV	34	562	0.23%	0.133%
91	8.655	8.634	8.667	VV	36	454	0.19%	0.108%
92	8.796	8.667	8.975	VV	4026	241461	100.00%	57.334%
93	8.985	8.975	9.012	VV	124	1966	0.81%	0.467%
94	9.025	9.012	9.058	VV	79	1787	0.74%	0.424%
95	9.070	9.058	9.095	VV	64	1179	0.49%	0.280%
96	9.105	9.095	9.112	VV	59	565	0.23%	0.134%
97	9.119	9.112	9.159	VV	58	1163	0.48%	0.276%
98	9.175	9.159	9.219	VV	43	1226	0.51%	0.291%
99	9.226	9.219	9.234	VV	32	240	0.10%	0.057%
100	9.243	9.234	9.274	VV	29	535	0.22%	0.127%
101	9.294	9.274	9.307	VV	30	356	0.15%	0.085%
102	9.319	9.307	9.339	VV	28	366	0.15%	0.087%
103	9.387	9.339	9.405	VV	45	1307	0.54%	0.310%
104	9.413	9.405	9.454	VV	30	701	0.29%	0.166%
105	9.464	9.454	9.476	VV	37	360	0.15%	0.085%
106	9.488	9.476	9.503	VV	39	489	0.20%	0.116%
107	9.510	9.503	9.527	VV	27	250	0.10%	0.059%
108	9.537	9.527	9.547	VV	32	270	0.11%	0.064%
109	9.549	9.547	9.561	VV	27	159	0.07%	0.038%
110	9.569	9.561	9.577	VV	21	165	0.07%	0.039%
111	9.621	9.577	9.632	VV	30	766	0.32%	0.182%
112	9.640	9.632	9.650	VV	34	252	0.10%	0.060%
113	9.700	9.650	9.717	VV	42	1135	0.47%	0.270%
114	9.726	9.717	9.731	VV	27	198	0.08%	0.047%
115	9.752	9.731	9.765	VV	43	593	0.25%	0.141%
116	9.794	9.765	9.873	VV	38	1751	0.73%	0.416%
117	9.958	9.873	9.984	VV	30	1469	0.61%	0.349%
118	10.035	9.984	10.090	VV	39	1659	0.69%	0.394%
119	10.114	10.090	10.146	VV	39	793	0.33%	0.188%
120	10.180	10.146	10.207	VV	37	801	0.33%	0.190%
121	10.231	10.207	10.268	PV	36	1038	0.43%	0.247%
122	10.287	10.268	10.302	VV	39	666	0.28%	0.158%
123	10.337	10.302	10.352	VV	53	1177	0.49%	0.279%
124	10.386	10.352	10.458	VV	62	2888	1.20%	0.686%
125	10.477	10.458	10.534	VV	39	1419	0.59%	0.337%
126	10.558	10.534	10.575	VV	47	859	0.36%	0.204%
127	10.604	10.575	10.683	VV	66	3332	1.38%	0.791%
128	10.696	10.683	10.737	VV	50	1109	0.46%	0.263%
129	10.755	10.737	10.770	VV	41	515	0.21%	0.122%
130	10.790	10.770	10.857	VV	37	1454	0.60%	0.345%
131	10.876	10.857	10.913	VV	33	772	0.32%	0.183%
132	10.988	10.913	11.022	VV	33	1555	0.64%	0.369%
133	11.117	11.022	11.162	VV	32	1681	0.70%	0.399%
134	11.172	11.162	11.199	VV	28	575	0.24%	0.136%
135	11.214	11.199	11.234	VV	35	548	0.23%	0.130%
136	11.253	11.234	11.270	VV	30	549	0.23%	0.130%
137	11.284	11.270	11.311	VV	40	666	0.28%	0.158%
138	11.329	11.311	11.376	VV	35	975	0.40%	0.231%
139	11.388	11.376	11.462	VV	35	1117	0.46%	0.265%
140	11.537	11.462	11.634	VV	39	2830	1.17%	0.672%
141	11.702	11.634	11.746	VV	32	1489	0.62%	0.354%

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142	11.758	11.746	11.821	VV	29	1101	0.46%	0.262%
143	11.863	11.821	11.913	VV	46	1657	0.69%	0.393%
144	11.922	11.913	11.971	VV	37	692	0.29%	0.164%
145	12.005	11.971	12.038	VV	35	1051	0.44%	0.250%
146	12.060	12.038	12.076	VV	41	627	0.26%	0.149%
147	12.116	12.076	12.152	VV	41	1160	0.48%	0.275%
148	12.275	12.152	12.309	VV	35	1941	0.80%	0.461%
149	12.343	12.309	12.359	VV	34	632	0.26%	0.150%
150	12.381	12.359	12.420	VV	30	755	0.31%	0.179%
151	12.425	12.420	12.505	VV	31	1020	0.42%	0.242%
152	12.538	12.505	12.562	VV	31	722	0.30%	0.171%
153	12.587	12.562	12.612	VV	23	597	0.25%	0.142%
154	12.674	12.612	12.687	VV	30	1009	0.42%	0.240%
155	12.710	12.687	12.725	VV	41	735	0.30%	0.174%
156	12.739	12.725	12.821	VV	45	1972	0.82%	0.468%
157	12.850	12.821	12.882	VV	41	979	0.41%	0.232%
158	12.892	12.882	12.982	VV	34	1786	0.74%	0.424%
159	13.051	12.982	13.089	VV	55	2462	1.02%	0.585%
160	13.199	13.089	13.285	VV	85	6072	2.51%	1.442%
161	13.298	13.285	13.312	VV	35	514	0.21%	0.122%
162	13.327	13.312	13.366	VV	36	811	0.34%	0.193%
163	13.398	13.366	13.422	VV	31	702	0.29%	0.167%
164	13.474	13.422	13.496	VV	40	986	0.41%	0.234%
165	13.512	13.496	13.530	VV	35	493	0.20%	0.117%
166	13.549	13.530	13.566	VV	30	458	0.19%	0.109%
167	13.609	13.566	13.628	VV	31	981	0.41%	0.233%
168	13.646	13.628	13.673	VV	32	695	0.29%	0.165%
169	13.718	13.673	13.769	VV	30	1103	0.46%	0.262%
170	13.796	13.769	13.831	VV	30	904	0.37%	0.215%
171	13.911	13.831	13.983	VV	57	3872	1.60%	0.919%
172	14.107	13.983	14.301	VV	103	10915	4.52%	2.592%
173	14.345	14.301	14.368	VV	36	971	0.40%	0.231%
174	14.383	14.368	14.437	VV	33	1148	0.48%	0.273%
175	14.466	14.437	14.499	VV	27	942	0.39%	0.224%
176	14.512	14.499	14.535	VV	27	490	0.20%	0.116%
177	14.550	14.535	14.608	VV	41	1050	0.43%	0.249%
178	14.625	14.608	14.666	VV	20	439	0.18%	0.104%
179	14.688	14.666	14.740	VV	27	852	0.35%	0.202%
180	14.776	14.740	14.807	VV	30	810	0.34%	0.192%
181	14.836	14.807	14.866	PV	24	569	0.24%	0.135%
182	14.878	14.866	14.921	VV	30	723	0.30%	0.172%
183	14.944	14.921	14.957	VV	28	422	0.17%	0.100%
184	15.066	14.957	15.111	VV	64	3603	1.49%	0.855%
185	15.127	15.111	15.147	VV	32	479	0.20%	0.114%
186	15.191	15.147	15.225	VV	44	1153	0.48%	0.274%
187	15.234	15.225	15.267	VV	34	588	0.24%	0.140%
188	15.310	15.267	15.338	VV	42	1068	0.44%	0.254%
189	15.406	15.338	15.494	VV	75	4202	1.74%	0.998%
190	15.517	15.494	15.586	VV	44	1644	0.68%	0.390%
191	15.643	15.586	15.668	VV	41	1199	0.50%	0.285%
192	15.690	15.668	15.741	VV	33	905	0.37%	0.215%
193	15.768	15.741	15.801	PV	29	580	0.24%	0.138%
194	15.816	15.801	15.829	VV	26	288	0.12%	0.068%

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195	15.922	15.829	15.946	VV	34	1432	0.59%	0.340%
196	15.963	15.946	16.018	VV	25	822	0.34%	0.195%
197	16.074	16.018	16.091	VV	25	634	0.26%	0.151%
198	16.209	16.091	16.327	VV	68	4914	2.04%	1.167%
199	16.342	16.327	16.357	VV	24	271	0.11%	0.064%
200	16.379	16.357	16.474	VV	28	1351	0.56%	0.321%
201	16.485	16.474	16.503	VV	19	255	0.11%	0.061%
202	16.614	16.503	16.634	VV	32	1264	0.52%	0.300%
203	16.645	16.634	16.679	VV	33	494	0.20%	0.117%
204	16.713	16.679	16.739	VV	28	539	0.22%	0.128%
205	16.775	16.739	16.795	VV	23	562	0.23%	0.133%
206	16.808	16.795	16.840	VV	23	469	0.19%	0.111%
207	16.854	16.840	16.871	VV	31	308	0.13%	0.073%
208	16.891	16.871	16.915	VV	25	318	0.13%	0.075%
209	16.928	16.915	16.957	VV	20	240	0.10%	0.057%
210	16.974	16.957	17.012	VV	25	242	0.10%	0.057%

Sum of corrected areas: 421148

FB051925.M Wed May 21 00:24:58 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB052125\
Data File : FB031802.D
Signal(s) : FID2B.CH
Acq On : 21 May 2025 11:35
Operator : YP/AJ
Sample : Q2074-07 50X
Misc : 7.11G/5.00 ML MEOH
ALS Vial : 6 Sample Multiplier: 1

Instrument :
FID_B
ClientSampleId :
TP-40

Integration File: Calibration.e
Quant Time: May 22 01:48:39 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	435281	20.130 ng/ml
Target Compounds			

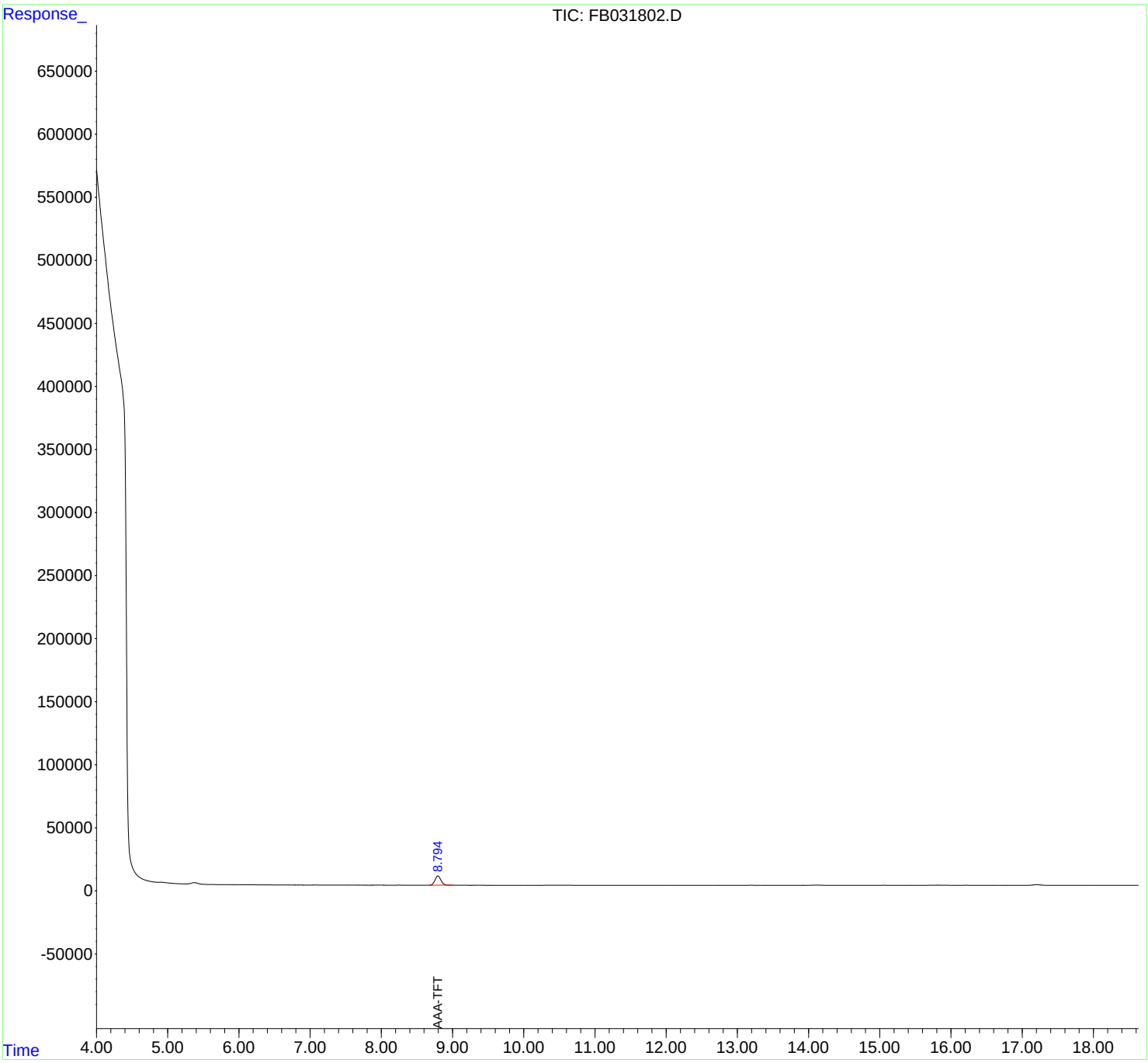
(f)=RT Delta > 1/2 Window (m)=manual int.

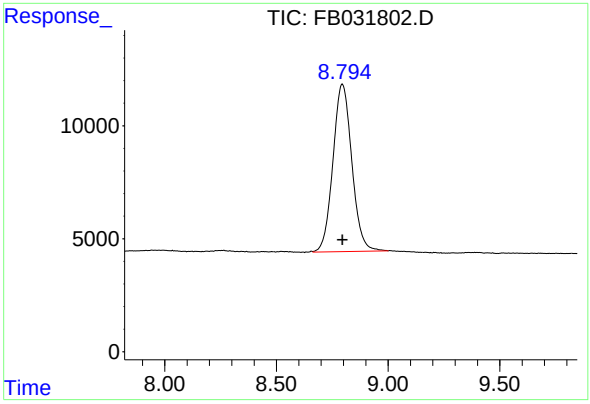
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB052125\
Data File : FB031802.D
Signal(s) : FID2B.CH
Acq On : 21 May 2025 11:35
Operator : YP/AJ
Sample : Q2074-07 50X
Misc : 7.11G/5.00 ML MEOH
ALS Vial : 6 Sample Multiplier: 1

Instrument :
FID_B
ClientSampleId :
TP-40

Integration File: Calibration.e
Quant Time: May 22 01:48:39 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.:	0.000 min
Response:	435281
Conc:	20.13 ng/ml

Instrument :
FID_B
ClientSampleId :
TP-40

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB052125\
Data File : FB031802.D
Signal(s) : FID2B.CH
Acq On : 21 May 2025 11:35
Sample : Q2074-07 50X
Misc : 7.11G/5.00 ML MEOH
ALS Vial : 6 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	5.636	5.625	5.685	PV	19	265	0.06%	0.040%
2	5.697	5.685	5.729	PV	21	217	0.05%	0.033%
3	5.737	5.729	5.775	PV	12	312	0.07%	0.047%
4	5.784	5.775	5.797	VV	21	155	0.03%	0.023%
5	5.806	5.797	5.813	VV	13	98	0.02%	0.015%
6	5.817	5.813	5.840	VV	22	116	0.03%	0.017%
7	5.849	5.840	5.883	VV	31	304	0.07%	0.045%
8	5.890	5.883	5.906	PV	16	71	0.02%	0.011%
9	5.918	5.906	5.933	PV	20	176	0.04%	0.026%
10	5.940	5.933	5.962	VV	17	163	0.04%	0.024%
11	5.971	5.962	6.007	VV	23	190	0.04%	0.028%
12	6.027	6.007	6.120	PV	25	1399	0.31%	0.209%
13	6.129	6.120	6.177	VV	41	1392	0.31%	0.208%
14	6.195	6.177	6.305	VV	68	2965	0.66%	0.443%
15	6.310	6.305	6.316	VV	33	188	0.04%	0.028%
16	6.322	6.316	6.330	VV	39	296	0.07%	0.044%
17	6.340	6.330	6.349	VV	54	517	0.12%	0.077%
18	6.359	6.349	6.378	VV	55	877	0.20%	0.131%
19	6.391	6.378	6.505	VV	57	2305	0.52%	0.345%
20	6.517	6.505	6.608	VV	18	599	0.13%	0.090%
21	6.612	6.608	6.636	VV	19	210	0.05%	0.031%
22	6.672	6.636	6.680	PV	30	434	0.10%	0.065%
23	6.690	6.680	6.738	VV	31	494	0.11%	0.074%
24	6.762	6.738	6.794	PV	16	281	0.06%	0.042%
25	6.813	6.794	6.832	VV	16	250	0.06%	0.037%
26	6.879	6.832	6.928	VV	33	1029	0.23%	0.154%
27	6.937	6.928	6.983	VV	17	356	0.08%	0.053%
28	6.997	6.983	7.019	PV	30	448	0.10%	0.067%
29	7.073	7.019	7.083	VV	70	1970	0.44%	0.294%
30	7.096	7.083	7.203	VV	75	2493	0.56%	0.373%
31	7.212	7.203	7.224	VV	17	137	0.03%	0.020%
32	7.235	7.224	7.242	PV	15	98	0.02%	0.015%
33	7.249	7.242	7.271	VV	18	131	0.03%	0.020%
34	7.285	7.271	7.304	PV	18	187	0.04%	0.028%
35	7.312	7.304	7.319	VV	12	61	0.01%	0.009%
36	7.345	7.319	7.371	VV	21	446	0.10%	0.067%

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37	7.381	7.371	7.420	VV	33	640	0.14%	0.096%
38	7.429	7.420	7.470	VV	25	339	0.08%	0.051%
39	7.483	7.470	7.504	VV	29	325	0.07%	0.049%
40	7.510	7.504	7.521	VV	17	98	0.02%	0.015%
41	7.534	7.521	7.548	VV	27	237	0.05%	0.035%
42	7.563	7.548	7.571	PV	21	154	0.03%	0.023%
43	7.577	7.571	7.581	VV	15	79	0.02%	0.012%
44	7.592	7.581	7.598	VV	25	212	0.05%	0.032%
45	7.606	7.598	7.632	VV	34	411	0.09%	0.061%
46	7.670	7.632	7.679	VV	28	416	0.09%	0.062%
47	7.717	7.679	7.724	VV	30	491	0.11%	0.073%
48	7.732	7.724	7.756	VV	34	405	0.09%	0.060%
49	7.765	7.756	7.794	VV	23	392	0.09%	0.059%
50	7.802	7.794	7.822	VV	23	209	0.05%	0.031%
51	7.854	7.822	7.871	VV	25	513	0.12%	0.077%
52	7.917	7.871	7.924	VV	44	924	0.21%	0.138%
53	7.944	7.924	7.966	VV	57	1292	0.29%	0.193%
54	7.974	7.966	7.984	VV	57	555	0.12%	0.083%
55	7.992	7.984	8.030	VV	55	1283	0.29%	0.192%
56	8.035	8.030	8.076	VV	54	767	0.17%	0.115%
57	8.091	8.076	8.113	VV	16	218	0.05%	0.033%
58	8.121	8.113	8.130	VV	15	127	0.03%	0.019%
59	8.139	8.130	8.164	VV	17	202	0.05%	0.030%
60	8.188	8.164	8.200	VV	30	350	0.08%	0.052%
61	8.211	8.200	8.218	VV	32	316	0.07%	0.047%
62	8.265	8.218	8.286	VV	74	2142	0.48%	0.320%
63	8.293	8.286	8.318	VV	55	657	0.15%	0.098%
64	8.325	8.318	8.334	VV	26	176	0.04%	0.026%
65	8.344	8.334	8.360	VV	25	296	0.07%	0.044%
66	8.367	8.360	8.386	VV	30	169	0.04%	0.025%
67	8.435	8.386	8.466	PV	24	616	0.14%	0.092%
68	8.478	8.466	8.498	VV	26	301	0.07%	0.045%
69	8.521	8.498	8.641	VV	36	1510	0.34%	0.226%
70	8.657	8.641	8.664	VV	58	476	0.11%	0.071%
71	8.795	8.664	9.002	VV	7463	446098	100.00%	66.690%
72	9.010	9.002	9.086	VV	103	3984	0.89%	0.596%
73	9.094	9.086	9.160	VV	61	1989	0.45%	0.297%
74	9.169	9.160	9.198	VV	38	600	0.13%	0.090%
75	9.212	9.198	9.244	VV	32	514	0.12%	0.077%
76	9.251	9.244	9.277	VV	13	114	0.03%	0.017%
77	9.289	9.277	9.309	PV	20	261	0.06%	0.039%
78	9.361	9.309	9.383	VV	41	1200	0.27%	0.179%
79	9.389	9.383	9.431	VV	48	1034	0.23%	0.155%
80	9.442	9.431	9.494	VV	27	629	0.14%	0.094%
81	9.516	9.494	9.531	PV	26	381	0.09%	0.057%
82	9.540	9.531	9.550	VV	25	203	0.05%	0.030%
83	9.560	9.550	9.587	VV	25	404	0.09%	0.060%
84	9.592	9.587	9.631	VV	22	347	0.08%	0.052%
85	9.643	9.631	9.667	VV	22	313	0.07%	0.047%
86	9.676	9.667	9.734	VV	23	535	0.12%	0.080%
87	9.754	9.734	9.793	VV	21	478	0.11%	0.071%
88	9.822	9.793	9.842	VV	20	426	0.10%	0.064%
89	9.861	9.842	9.883	VV	29	578	0.13%	0.086%

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90	9.911	9.883	9.926	VV	33	620	0.14%	0.093%
91	9.937	9.926	9.949	VV	27	279	0.06%	0.042%
92	9.962	9.949	9.998	VV	24	480	0.11%	0.072%
93	10.006	9.998	10.029	VV	26	286	0.06%	0.043%
94	10.037	10.029	10.055	VV	13	122	0.03%	0.018%
95	10.068	10.055	10.076	PV	22	177	0.04%	0.026%
96	10.085	10.076	10.108	VV	26	322	0.07%	0.048%
97	10.123	10.108	10.140	VV	24	308	0.07%	0.046%
98	10.154	10.140	10.171	VV	37	385	0.09%	0.058%
99	10.235	10.171	10.247	VV	49	1054	0.24%	0.158%
100	10.273	10.247	10.281	VV	45	751	0.17%	0.112%
101	10.337	10.281	10.354	VV	95	3038	0.68%	0.454%
102	10.365	10.354	10.381	VV	102	1547	0.35%	0.231%
103	10.392	10.381	10.429	VV	107	2697	0.60%	0.403%
104	10.439	10.429	10.455	VV	81	1077	0.24%	0.161%
105	10.466	10.455	10.488	VV	77	1417	0.32%	0.212%
106	10.517	10.488	10.549	VV	85	2713	0.61%	0.406%
107	10.558	10.549	10.578	VV	83	1290	0.29%	0.193%
108	10.626	10.578	10.636	VV	114	3440	0.77%	0.514%
109	10.642	10.636	10.726	VV	108	3132	0.70%	0.468%
110	10.755	10.726	10.764	VV	42	762	0.17%	0.114%
111	10.773	10.764	10.782	VV	46	397	0.09%	0.059%
112	10.792	10.782	10.812	VV	41	649	0.15%	0.097%
113	10.832	10.812	10.882	VV	44	1017	0.23%	0.152%
114	10.895	10.882	10.903	VV	20	210	0.05%	0.031%
115	10.973	10.903	10.983	VV	42	1177	0.26%	0.176%
116	10.991	10.983	11.007	VV	55	482	0.11%	0.072%
117	11.032	11.007	11.046	VV	31	530	0.12%	0.079%
118	11.063	11.046	11.092	VV	26	511	0.11%	0.076%
119	11.105	11.092	11.123	VV	21	273	0.06%	0.041%
120	11.140	11.123	11.149	VV	21	226	0.05%	0.034%
121	11.185	11.149	11.197	VV	23	517	0.12%	0.077%
122	11.215	11.197	11.236	VV	27	419	0.09%	0.063%
123	11.250	11.236	11.262	VV	26	293	0.07%	0.044%
124	11.280	11.262	11.298	VV	29	356	0.08%	0.053%
125	11.304	11.298	11.326	VV	8	103	0.02%	0.015%
126	11.382	11.326	11.401	PV	32	617	0.14%	0.092%
127	11.451	11.401	11.462	VV	41	995	0.22%	0.149%
128	11.477	11.462	11.490	VV	62	717	0.16%	0.107%
129	11.503	11.490	11.517	VV	46	602	0.13%	0.090%
130	11.531	11.517	11.548	VV	34	517	0.12%	0.077%
131	11.562	11.548	11.581	VV	54	656	0.15%	0.098%
132	11.590	11.581	11.598	VV	40	349	0.08%	0.052%
133	11.606	11.598	11.632	VV	42	609	0.14%	0.091%
134	11.637	11.632	11.670	VV	34	519	0.12%	0.078%
135	11.689	11.670	11.700	VV	22	327	0.07%	0.049%
136	11.738	11.700	11.769	VV	34	875	0.20%	0.131%
137	11.782	11.769	11.791	VV	26	232	0.05%	0.035%
138	11.801	11.791	11.816	VV	25	267	0.06%	0.040%
139	11.853	11.816	11.869	VV	47	985	0.22%	0.147%
140	11.881	11.869	11.902	VV	41	555	0.12%	0.083%
141	11.921	11.902	11.949	VV	24	502	0.11%	0.075%

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142	11.974	11.949	11.986	VV	22	328	0.07%	0.049%
143	11.997	11.986	12.007	VV	24	188	0.04%	0.028%
144	12.057	12.007	12.072	PV	30	647	0.15%	0.097%
145	12.078	12.072	12.109	VV	29	481	0.11%	0.072%
146	12.125	12.109	12.155	VV	26	318	0.07%	0.048%
147	12.174	12.155	12.182	VV	17	212	0.05%	0.032%
148	12.194	12.182	12.222	VV	28	300	0.07%	0.045%
149	12.242	12.222	12.252	VV	20	198	0.04%	0.030%
150	12.276	12.252	12.294	VV	17	270	0.06%	0.040%
151	12.305	12.294	12.319	VV	19	174	0.04%	0.026%
152	12.350	12.319	12.370	VV	28	515	0.12%	0.077%
153	12.390	12.370	12.411	VV	17	213	0.05%	0.032%
154	12.428	12.411	12.446	VV	10	191	0.04%	0.029%
155	12.458	12.446	12.495	VV	22	466	0.10%	0.070%
156	12.503	12.495	12.518	VV	20	174	0.04%	0.026%
157	12.530	12.518	12.546	VV	37	292	0.07%	0.044%
158	12.559	12.546	12.584	PV	34	305	0.07%	0.046%
159	12.631	12.584	12.656	VV	30	728	0.16%	0.109%
160	12.687	12.656	12.696	PV	36	449	0.10%	0.067%
161	12.707	12.696	12.724	VV	40	497	0.11%	0.074%
162	12.738	12.724	12.745	VV	36	386	0.09%	0.058%
163	12.764	12.745	12.829	VV	54	1589	0.36%	0.237%
164	12.866	12.829	12.877	VV	26	544	0.12%	0.081%
165	12.906	12.877	12.916	VV	36	608	0.14%	0.091%
166	12.931	12.916	12.952	VV	36	553	0.12%	0.083%
167	12.961	12.952	12.976	VV	27	296	0.07%	0.044%
168	13.013	12.976	13.029	VV	39	855	0.19%	0.128%
169	13.059	13.029	13.097	VV	63	1940	0.43%	0.290%
170	13.105	13.097	13.116	VV	34	370	0.08%	0.055%
171	13.186	13.116	13.304	VV	138	7587	1.70%	1.134%
172	13.321	13.304	13.332	VV	26	318	0.07%	0.048%
173	13.349	13.332	13.373	VV	26	478	0.11%	0.071%
174	13.386	13.373	13.418	VV	27	362	0.08%	0.054%
175	13.437	13.418	13.444	VV	22	196	0.04%	0.029%
176	13.451	13.444	13.473	VV	19	231	0.05%	0.035%
177	13.516	13.473	13.530	VV	32	710	0.16%	0.106%
178	13.539	13.530	13.545	VV	24	160	0.04%	0.024%
179	13.557	13.545	13.571	VV	38	423	0.09%	0.063%
180	13.595	13.571	13.608	VV	20	321	0.07%	0.048%
181	13.620	13.608	13.627	VV	27	187	0.04%	0.028%
182	13.636	13.627	13.644	VV	31	247	0.06%	0.037%
183	13.651	13.644	13.681	VV	28	249	0.06%	0.037%
184	13.702	13.681	13.711	VV	11	110	0.02%	0.016%
185	13.724	13.711	13.749	VV	24	320	0.07%	0.048%
186	13.779	13.749	13.803	VV	28	531	0.12%	0.079%
187	13.811	13.803	13.819	VV	19	134	0.03%	0.020%
188	13.932	13.819	13.977	VV	93	5031	1.13%	0.752%
189	13.986	13.977	14.006	VV	83	1291	0.29%	0.193%
190	14.106	14.006	14.265	VV	251	21528	4.83%	3.218%
191	14.273	14.265	14.298	VV	43	589	0.13%	0.088%
192	14.318	14.298	14.340	VV	54	800	0.18%	0.120%
193	14.355	14.340	14.366	VV	51	602	0.14%	0.090%
194	14.379	14.366	14.403	VV	51	801	0.18%	0.120%

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195	14.434	14.403	14.451	VV	47	854	0.19%	0.128%
196	14.461	14.451	14.472	VV	27	241	0.05%	0.036%
197	14.492	14.472	14.502	VV	22	275	0.06%	0.041%
198	14.521	14.502	14.546	VV	25	477	0.11%	0.071%
199	14.555	14.546	14.578	VV	29	394	0.09%	0.059%
200	14.588	14.578	14.605	VV	20	186	0.04%	0.028%
201	14.647	14.605	14.665	PV	30	553	0.12%	0.083%
202	14.674	14.665	14.682	VV	25	167	0.04%	0.025%
203	14.695	14.682	14.705	VV	20	189	0.04%	0.028%
204	14.711	14.705	14.716	VV	12	61	0.01%	0.009%
205	14.726	14.716	14.751	VV	27	291	0.07%	0.043%
206	14.769	14.751	14.795	VV	24	401	0.09%	0.060%
207	14.803	14.795	14.815	VV	21	177	0.04%	0.027%
208	14.824	14.815	14.840	VV	17	147	0.03%	0.022%
209	14.869	14.840	14.897	VV	20	481	0.11%	0.072%
210	14.909	14.897	14.920	VV	17	169	0.04%	0.025%
211	14.930	14.920	14.944	VV	20	204	0.05%	0.031%
212	14.970	14.944	14.978	VV	24	384	0.09%	0.057%
213	15.054	14.978	15.160	VV	117	6005	1.35%	0.898%
214	15.175	15.160	15.184	VV	40	341	0.08%	0.051%
215	15.196	15.184	15.205	VV	46	391	0.09%	0.058%
216	15.217	15.205	15.250	VV	40	776	0.17%	0.116%
217	15.260	15.250	15.264	VV	21	128	0.03%	0.019%
218	15.271	15.264	15.277	VV	23	142	0.03%	0.021%
219	15.290	15.277	15.320	VV	44	614	0.14%	0.092%
220	15.355	15.320	15.369	VV	55	1056	0.24%	0.158%
221	15.381	15.369	15.392	VV	58	667	0.15%	0.100%
222	15.436	15.392	15.446	VV	92	2285	0.51%	0.342%
223	15.454	15.446	15.465	VV	72	762	0.17%	0.114%
224	15.481	15.465	15.494	VV	66	1068	0.24%	0.160%
225	15.503	15.494	15.534	VV	63	1334	0.30%	0.199%
226	15.549	15.534	15.572	VV	55	1002	0.22%	0.150%
227	15.581	15.572	15.592	VV	50	499	0.11%	0.075%
228	15.603	15.592	15.619	VV	60	780	0.17%	0.117%
229	15.643	15.619	15.653	VV	79	1232	0.28%	0.184%
230	15.777	15.653	15.786	VV	159	8983	2.01%	1.343%
231	15.811	15.786	15.827	VV	186	4223	0.95%	0.631%
232	15.845	15.827	15.895	VV	180	6161	1.38%	0.921%
233	15.912	15.895	15.999	VV	154	6603	1.48%	0.987%
234	16.007	15.999	16.060	VV	68	1643	0.37%	0.246%
235	16.069	16.060	16.078	VV	36	261	0.06%	0.039%
236	16.104	16.078	16.114	VV	41	595	0.13%	0.089%
237	16.134	16.114	16.147	VV	42	602	0.13%	0.090%
238	16.204	16.147	16.272	VV	135	6246	1.40%	0.934%
239	16.277	16.272	16.298	VV	50	620	0.14%	0.093%
240	16.309	16.298	16.334	VV	40	699	0.16%	0.105%
241	16.351	16.334	16.367	VV	36	613	0.14%	0.092%
242	16.375	16.367	16.382	VV	41	311	0.07%	0.046%
243	16.401	16.382	16.427	VV	50	949	0.21%	0.142%
244	16.437	16.427	16.451	VV	28	273	0.06%	0.041%
245	16.465	16.451	16.510	VV	27	567	0.13%	0.085%
246	16.524	16.510	16.535	VV	35	325	0.07%	0.049%

rteres

247	16.623	16.535	16.667	VV	52	2173	0.49%	0.325%
248	16.678	16.667	16.686	VV	20	199	0.04%	0.030%
249	16.694	16.686	16.719	VV	16	267	0.06%	0.040%
250	16.786	16.719	16.797	VV	49	1240	0.28%	0.185%
251	16.807	16.797	16.832	VV	37	498	0.11%	0.074%
252	16.855	16.832	16.872	VV	30	365	0.08%	0.055%
253	16.885	16.872	16.919	PV	25	417	0.09%	0.062%
254	16.948	16.919	16.970	VV	24	266	0.06%	0.040%
255	16.985	16.970	17.002	VV	16	141	0.03%	0.021%
256	17.029	17.002	17.043	PV	14	78	0.02%	0.012%
257	17.074	17.043	17.082	PV	14	171	0.04%	0.026%
			Sum of corrected areas:			668911		

FB051925.M Thu May 22 02:50:37 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB052125\
Data File : FB031803.D
Signal(s) : FID2B.CH
Acq On : 21 May 2025 12:12
Operator : YP/AJ
Sample : Q2074-08 50X
Misc : 7.68G/5.00 ML MEOH
ALS Vial : 7 Sample Multiplier: 1

Instrument :
FID_B
ClientSampleId :
TP-18

Integration File: Calibration.e
Quant Time: May 22 01:48:47 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	412294	19.067 ng/ml
Target Compounds				

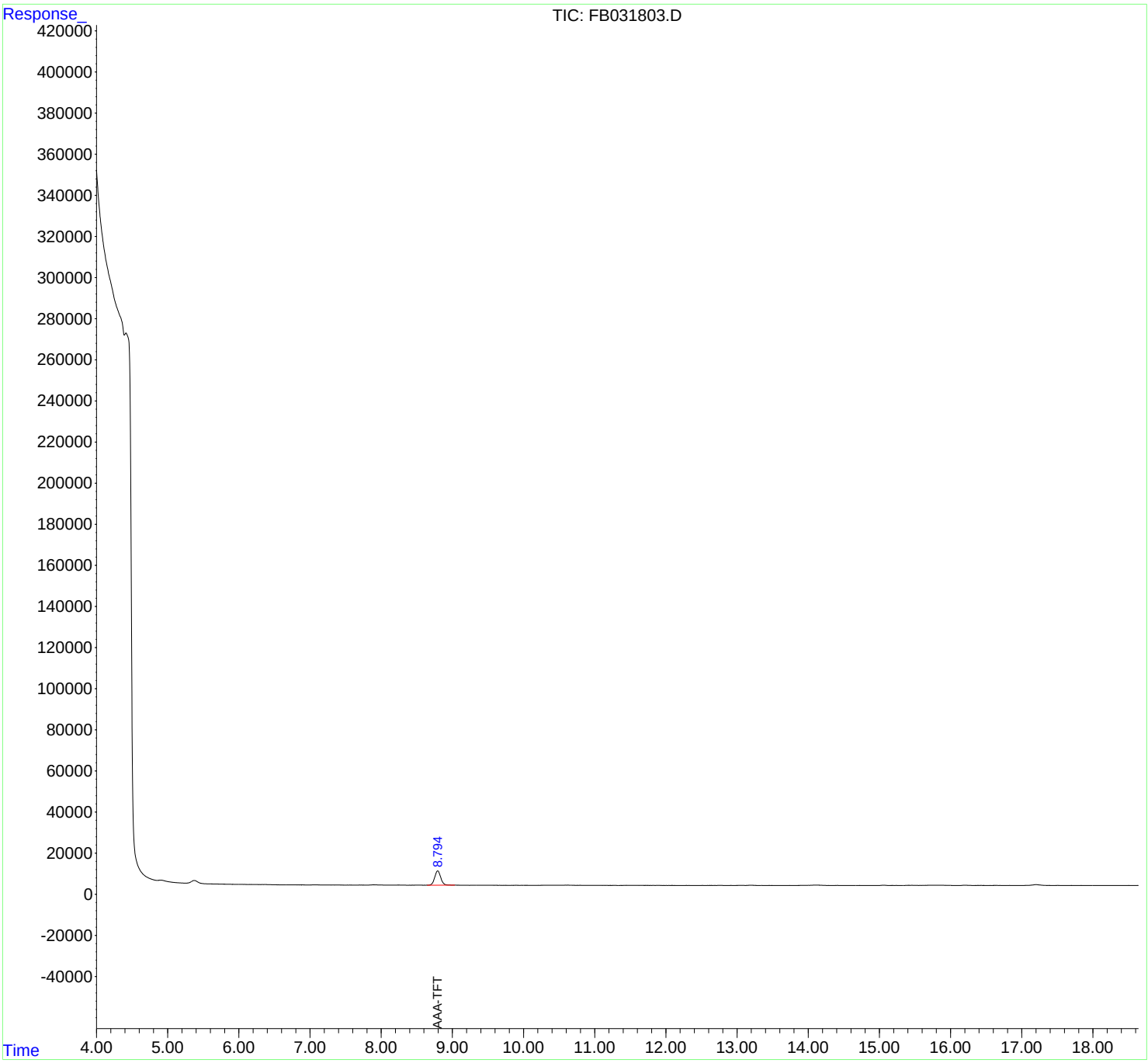
(f)=RT Delta > 1/2 Window (m)=manual int.

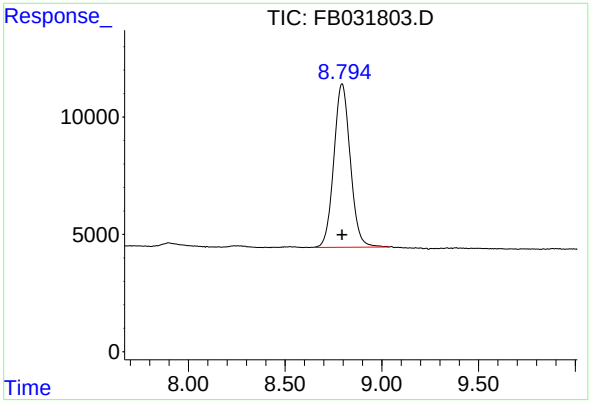
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB052125\
Data File : FB031803.D
Signal(s) : FID2B.CH
Acq On : 21 May 2025 12:12
Operator : YP/AJ
Sample : Q2074-08 50X
Misc : 7.68G/5.00 ML MEOH
ALS Vial : 7 Sample Multiplier: 1

Instrument :
FID_B
ClientSampleId :
TP-18

Integration File: Calibration.e
Quant Time: May 22 01:48:47 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.:	0.000 min
Response:	412294
Conc:	19.07 ng/ml

Instrument :
FID_B
ClientSampleId :
TP-18

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB052125\
Data File : FB031803.D
Signal(s) : FID2B.CH
Acq On : 21 May 2025 12:12
Sample : Q2074-08 50X
Misc : 7.68G/5.00 ML MEOH
ALS Vial : 7 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	5.769	5.760	5.878	PV	19	259	0.06%	0.039%
2	5.886	5.878	5.901	VV	15	132	0.03%	0.020%
3	5.919	5.901	5.969	PV	31	432	0.10%	0.064%
4	5.980	5.969	5.996	PV	14	145	0.03%	0.022%
5	6.002	5.996	6.016	VV	29	170	0.04%	0.025%
6	6.026	6.016	6.037	PV	18	117	0.03%	0.017%
7	6.057	6.037	6.069	VV	29	333	0.08%	0.050%
8	6.089	6.069	6.127	VV	33	731	0.17%	0.109%
9	6.150	6.127	6.158	VV	42	557	0.13%	0.083%
10	6.173	6.158	6.195	VV	50	869	0.20%	0.130%
11	6.210	6.195	6.285	VV	55	1896	0.45%	0.283%
12	6.298	6.285	6.311	VV	37	523	0.12%	0.078%
13	6.325	6.311	6.346	VV	66	1153	0.27%	0.172%
14	6.364	6.346	6.487	VV	91	4201	0.99%	0.626%
15	6.494	6.487	6.550	VV	21	362	0.09%	0.054%
16	6.555	6.550	6.566	VV	20	96	0.02%	0.014%
17	6.576	6.566	6.586	PV	14	106	0.02%	0.016%
18	6.596	6.586	6.655	VV	17	279	0.07%	0.042%
19	6.665	6.655	6.711	PV	18	316	0.07%	0.047%
20	6.723	6.711	6.747	VV	20	230	0.05%	0.034%
21	6.759	6.747	6.771	PV	14	133	0.03%	0.020%
22	6.782	6.771	6.804	VV	18	291	0.07%	0.043%
23	6.813	6.804	6.822	VV	24	160	0.04%	0.024%
24	6.838	6.822	6.851	VV	38	348	0.08%	0.052%
25	6.864	6.851	6.884	VV	21	301	0.07%	0.045%
26	6.898	6.884	6.966	VV	25	770	0.18%	0.115%
27	7.015	6.966	7.023	VV	30	644	0.15%	0.096%
28	7.090	7.023	7.121	VV	72	3330	0.78%	0.496%
29	7.128	7.121	7.144	VV	50	540	0.13%	0.080%
30	7.154	7.144	7.166	VV	39	400	0.09%	0.060%
31	7.174	7.166	7.206	VV	33	606	0.14%	0.090%
32	7.214	7.206	7.273	VV	26	461	0.11%	0.069%
33	7.281	7.273	7.297	VV	18	129	0.03%	0.019%
34	7.312	7.297	7.335	PV	24	304	0.07%	0.045%
35	7.366	7.335	7.402	VV	27	727	0.17%	0.108%
36	7.422	7.402	7.438	VV	30	453	0.11%	0.068%

rteres

37	7.449	7.438	7.502	VV	24	498	0.12%	0.074%
38	7.527	7.502	7.548	PV	25	422	0.10%	0.063%
39	7.560	7.548	7.591	VV	35	596	0.14%	0.089%
40	7.601	7.591	7.609	VV	23	189	0.04%	0.028%
41	7.626	7.609	7.641	VV	29	453	0.11%	0.068%
42	7.652	7.641	7.661	VV	29	302	0.07%	0.045%
43	7.704	7.661	7.768	VV	49	2209	0.52%	0.329%
44	7.779	7.768	7.789	VV	39	394	0.09%	0.059%
45	7.795	7.789	7.809	VV	30	286	0.07%	0.043%
46	7.895	7.809	8.088	VV	179	14443	3.40%	2.152%
47	8.097	8.088	8.109	VV	39	309	0.07%	0.046%
48	8.123	8.109	8.130	VV	25	251	0.06%	0.037%
49	8.137	8.130	8.147	VV	26	199	0.05%	0.030%
50	8.156	8.147	8.173	VV	29	339	0.08%	0.051%
51	8.234	8.173	8.265	VV	79	2906	0.68%	0.433%
52	8.272	8.265	8.367	VV	76	2459	0.58%	0.367%
53	8.376	8.367	8.388	VV	20	205	0.05%	0.031%
54	8.398	8.388	8.412	VV	28	299	0.07%	0.045%
55	8.420	8.412	8.426	VV	23	149	0.04%	0.022%
56	8.447	8.426	8.459	VV	32	529	0.12%	0.079%
57	8.498	8.459	8.513	VV	53	1255	0.30%	0.187%
58	8.527	8.513	8.538	VV	60	813	0.19%	0.121%
59	8.550	8.538	8.597	VV	57	1488	0.35%	0.222%
60	8.614	8.597	8.623	VV	41	547	0.13%	0.082%
61	8.638	8.623	8.645	VV	46	495	0.12%	0.074%
62	8.795	8.645	9.017	VV	7019	425075	100.00%	63.347%
63	9.027	9.017	9.037	VV	105	1198	0.28%	0.179%
64	9.051	9.037	9.066	VV	103	1458	0.34%	0.217%
65	9.083	9.066	9.136	VV	78	2628	0.62%	0.392%
66	9.146	9.136	9.166	VV	58	874	0.21%	0.130%
67	9.175	9.166	9.219	VV	64	1496	0.35%	0.223%
68	9.231	9.219	9.242	VV	44	420	0.10%	0.063%
69	9.258	9.242	9.275	PV	36	541	0.13%	0.081%
70	9.283	9.275	9.292	VV	37	341	0.08%	0.051%
71	9.306	9.292	9.321	VV	53	718	0.17%	0.107%
72	9.338	9.321	9.348	VV	65	841	0.20%	0.125%
73	9.381	9.348	9.398	VV	69	1657	0.39%	0.247%
74	9.408	9.398	9.416	VV	59	557	0.13%	0.083%
75	9.422	9.416	9.449	VV	59	913	0.21%	0.136%
76	9.464	9.449	9.520	VV	53	1876	0.44%	0.280%
77	9.537	9.520	9.551	VV	42	681	0.16%	0.102%
78	9.561	9.551	9.597	VV	40	879	0.21%	0.131%
79	9.623	9.597	9.643	VV	35	811	0.19%	0.121%
80	9.665	9.643	9.706	VV	29	839	0.20%	0.125%
81	9.739	9.706	9.770	VV	32	926	0.22%	0.138%
82	9.788	9.770	9.825	VV	26	639	0.15%	0.095%
83	9.835	9.825	9.847	VV	36	282	0.07%	0.042%
84	9.857	9.847	9.864	VV	32	228	0.05%	0.034%
85	9.885	9.864	9.893	VV	46	621	0.15%	0.093%
86	9.901	9.893	9.917	VV	41	540	0.13%	0.081%
87	9.922	9.917	9.951	VV	44	527	0.12%	0.078%
88	9.972	9.951	10.006	VV	36	912	0.21%	0.136%
89	10.014	10.006	10.082	VV	38	1151	0.27%	0.172%

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90	10.109	10.082	10.137	VV	33	674	0.16%	0.100%
91	10.145	10.137	10.183	VV	28	577	0.14%	0.086%
92	10.212	10.183	10.226	VV	38	655	0.15%	0.098%
93	10.259	10.226	10.282	VV	71	1481	0.35%	0.221%
94	10.385	10.282	10.441	VV	85	6430	1.51%	0.958%
95	10.488	10.441	10.500	VV	84	2264	0.53%	0.337%
96	10.508	10.500	10.519	VV	84	911	0.21%	0.136%
97	10.535	10.519	10.545	VV	88	1249	0.29%	0.186%
98	10.555	10.545	10.564	VV	91	966	0.23%	0.144%
99	10.593	10.564	10.602	VV	119	2368	0.56%	0.353%
100	10.614	10.602	10.627	VV	117	1700	0.40%	0.253%
101	10.636	10.627	10.694	VV	118	3127	0.74%	0.466%
102	10.707	10.694	10.741	VV	54	1245	0.29%	0.186%
103	10.751	10.741	10.773	VV	46	789	0.19%	0.118%
104	10.802	10.773	10.870	VV	64	2005	0.47%	0.299%
105	10.897	10.870	10.915	VV	35	610	0.14%	0.091%
106	10.926	10.915	10.949	VV	33	507	0.12%	0.076%
107	10.970	10.949	10.979	VV	48	595	0.14%	0.089%
108	10.986	10.979	10.995	VV	42	338	0.08%	0.050%
109	11.019	10.995	11.041	VV	45	938	0.22%	0.140%
110	11.062	11.041	11.085	VV	29	577	0.14%	0.086%
111	11.095	11.085	11.109	VV	38	317	0.07%	0.047%
112	11.139	11.109	11.150	VV	20	349	0.08%	0.052%
113	11.168	11.150	11.196	VV	41	568	0.13%	0.085%
114	11.227	11.196	11.236	VV	23	270	0.06%	0.040%
115	11.246	11.236	11.251	PV	20	97	0.02%	0.015%
116	11.261	11.251	11.270	VV	18	195	0.05%	0.029%
117	11.280	11.270	11.317	VV	27	503	0.12%	0.075%
118	11.361	11.317	11.381	VV	20	292	0.07%	0.044%
119	11.406	11.381	11.414	VV	34	361	0.09%	0.054%
120	11.446	11.414	11.495	VV	64	2172	0.51%	0.324%
121	11.504	11.495	11.517	VV	46	490	0.12%	0.073%
122	11.555	11.517	11.566	VV	55	1137	0.27%	0.169%
123	11.582	11.566	11.621	VV	48	1121	0.26%	0.167%
124	11.634	11.621	11.663	VV	33	636	0.15%	0.095%
125	11.670	11.663	11.699	VV	34	519	0.12%	0.077%
126	11.724	11.699	11.732	VV	23	377	0.09%	0.056%
127	11.750	11.732	11.774	VV	25	475	0.11%	0.071%
128	11.790	11.774	11.801	VV	38	394	0.09%	0.059%
129	11.831	11.801	11.851	VV	40	810	0.19%	0.121%
130	11.872	11.851	11.894	VV	35	664	0.16%	0.099%
131	11.917	11.894	11.927	VV	31	482	0.11%	0.072%
132	11.938	11.927	11.950	VV	24	259	0.06%	0.039%
133	11.963	11.950	11.976	VV	39	279	0.07%	0.042%
134	12.007	11.976	12.031	VV	35	687	0.16%	0.102%
135	12.043	12.031	12.063	VV	40	346	0.08%	0.052%
136	12.088	12.063	12.128	VV	44	792	0.19%	0.118%
137	12.155	12.128	12.173	VV	23	445	0.10%	0.066%
138	12.216	12.173	12.225	VV	18	368	0.09%	0.055%
139	12.233	12.225	12.242	VV	16	129	0.03%	0.019%
140	12.251	12.242	12.264	VV	15	161	0.04%	0.024%
141	12.286	12.264	12.308	VV	34	544	0.13%	0.081%

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142	12.325	12.308	12.338	PV	39	293	0.07%	0.044%
143	12.389	12.338	12.416	VV	22	579	0.14%	0.086%
144	12.447	12.416	12.455	VV	26	394	0.09%	0.059%
145	12.467	12.455	12.484	VV	22	234	0.06%	0.035%
146	12.507	12.484	12.554	VV	31	722	0.17%	0.108%
147	12.587	12.554	12.602	VV	32	512	0.12%	0.076%
148	12.615	12.602	12.629	VV	42	469	0.11%	0.070%
149	12.636	12.629	12.704	VV	33	1193	0.28%	0.178%
150	12.753	12.704	12.761	VV	48	1125	0.26%	0.168%
151	12.771	12.761	12.785	VV	59	674	0.16%	0.101%
152	12.793	12.785	12.818	VV	58	632	0.15%	0.094%
153	12.833	12.818	12.860	VV	23	404	0.10%	0.060%
154	12.869	12.860	12.879	VV	27	212	0.05%	0.032%
155	12.918	12.879	12.969	VV	37	1209	0.28%	0.180%
156	13.036	12.969	13.048	VV	67	1810	0.43%	0.270%
157	13.058	13.048	13.085	VV	64	1189	0.28%	0.177%
158	13.093	13.085	13.123	VV	54	889	0.21%	0.132%
159	13.191	13.123	13.327	VV	124	7448	1.75%	1.110%
160	13.348	13.327	13.371	VV	40	628	0.15%	0.094%
161	13.381	13.371	13.399	VV	16	198	0.05%	0.029%
162	13.420	13.399	13.436	VV	32	396	0.09%	0.059%
163	13.454	13.436	13.480	VV	38	562	0.13%	0.084%
164	13.488	13.480	13.498	VV	34	169	0.04%	0.025%
165	13.536	13.498	13.552	PV	31	473	0.11%	0.071%
166	13.563	13.552	13.579	VV	29	307	0.07%	0.046%
167	13.599	13.579	13.609	VV	25	303	0.07%	0.045%
168	13.627	13.609	13.636	VV	17	217	0.05%	0.032%
169	13.653	13.636	13.706	VV	26	679	0.16%	0.101%
170	13.739	13.706	13.764	PV	37	585	0.14%	0.087%
171	13.778	13.764	13.790	VV	29	264	0.06%	0.039%
172	13.807	13.790	13.832	VV	21	386	0.09%	0.058%
173	13.929	13.832	13.945	VV	78	3114	0.73%	0.464%
174	13.957	13.945	13.965	VV	82	923	0.22%	0.137%
175	13.970	13.965	13.986	VV	78	915	0.22%	0.136%
176	14.006	13.986	14.017	VV	86	1437	0.34%	0.214%
177	14.106	14.017	14.265	VV	199	17806	4.19%	2.654%
178	14.274	14.265	14.279	VV	36	237	0.06%	0.035%
179	14.287	14.279	14.312	VV	36	495	0.12%	0.074%
180	14.325	14.312	14.337	VV	29	278	0.07%	0.041%
181	14.384	14.337	14.396	VV	39	1013	0.24%	0.151%
182	14.409	14.396	14.467	VV	46	1401	0.33%	0.209%
183	14.477	14.467	14.539	VV	25	792	0.19%	0.118%
184	14.554	14.539	14.572	VV	27	439	0.10%	0.065%
185	14.583	14.572	14.618	VV	31	517	0.12%	0.077%
186	14.628	14.618	14.639	VV	15	120	0.03%	0.018%
187	14.692	14.639	14.703	VV	27	454	0.11%	0.068%
188	14.723	14.703	14.744	VV	43	360	0.08%	0.054%
189	14.761	14.744	14.793	VV	29	390	0.09%	0.058%
190	14.855	14.793	14.881	VV	17	671	0.16%	0.100%
191	14.900	14.881	14.913	VV	26	398	0.09%	0.059%
192	14.925	14.913	14.960	VV	27	546	0.13%	0.081%
193	15.057	14.960	15.156	PV	133	6793	1.60%	1.012%
194	15.187	15.156	15.222	VV	43	1163	0.27%	0.173%

					rteres			
195	15.237	15.222	15.282	VV	48	1050	0.25%	0.156%
196	15.426	15.282	15.438	VV	88	4458	1.05%	0.664%
197	15.457	15.438	15.481	VV	92	2159	0.51%	0.322%
198	15.491	15.481	15.554	VV	80	2829	0.67%	0.422%
199	15.608	15.554	15.629	VV	63	2290	0.54%	0.341%
200	15.768	15.629	15.782	VV	138	9139	2.15%	1.362%
201	15.821	15.782	15.883	VV	126	6933	1.63%	1.033%
202	15.898	15.883	16.115	VV	117	7377	1.74%	1.099%
203	16.207	16.115	16.322	VV	124	8115	1.91%	1.209%
204	16.393	16.322	16.455	VV	57	3108	0.73%	0.463%
205	16.473	16.455	16.495	VV	44	663	0.16%	0.099%
206	16.562	16.495	16.578	PV	31	1055	0.25%	0.157%
207	16.641	16.578	16.678	VV	51	2304	0.54%	0.343%
208	16.694	16.678	16.739	VV	38	883	0.21%	0.132%
209	16.763	16.739	16.804	VV	28	760	0.18%	0.113%
210	16.826	16.804	16.848	VV	33	559	0.13%	0.083%
211	16.857	16.848	16.868	VV	27	256	0.06%	0.038%
212	16.879	16.868	16.895	VV	28	314	0.07%	0.047%
213	16.920	16.895	16.965	VV	26	719	0.17%	0.107%
214	16.975	16.965	17.018	VV	16	219	0.05%	0.033%
			Sum of corrected areas:			671024		

FB051925.M Thu May 22 02:50:59 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB052025\
Data File : FB031780.D
Signal(s) : FID2B.CH
Acq On : 20 May 2025 10:00
Operator : YP/AJ
Sample : VBF0520S1
Misc : 5.00G/5.00 ML DI WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
FID_B
ClientSampleId :
VBF0520S1

Integration File: Calibration.e
Quant Time: May 20 23:33:37 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	8.795	427679	19.778 ng/ml
Target Compounds				

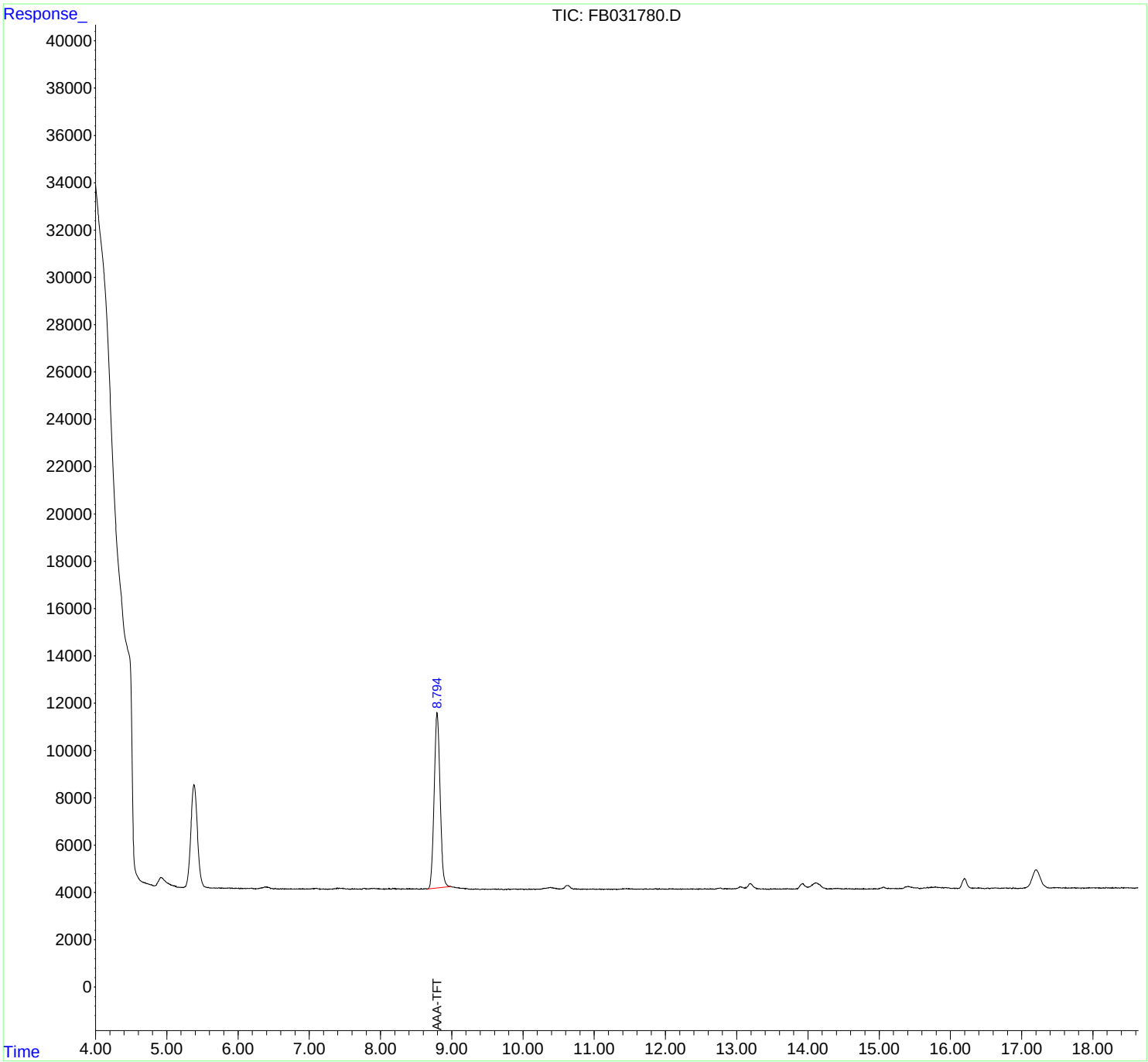
(f)=RT Delta > 1/2 Window (m)=manual int.

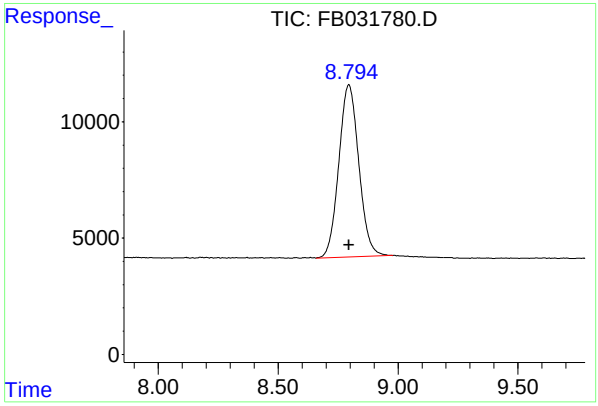
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB052025\
Data File : FB031780.D
Signal(s) : FID2B.CH
Acq On : 20 May 2025 10:00
Operator : YP/AJ
Sample : VBF0520S1
Misc : 5.00G/5.00 ML DI WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
FID_B
ClientSampleId :
VBF0520S1

Integration File: Calibration.e
Quant Time: May 20 23:33:37 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.: 8.795 min
Delta R.T.: 0.000 mi
Response: 427679
Conc: 19.78 ng/m

Instrument :
FID_B
ClientSampleId :
VBF0520S1

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB052025\
Data File : FB031780.D
Signal(s) : FID2B.CH
Acq On : 20 May 2025 10:00
Sample : VBF0520S1
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	8.658	8.979	PV	7414	427679	100.00%	100.000%
			Sum of corrected areas:			427679		

FB051925.M Wed May 21 00:16:43 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB052125\
Data File : FB031799.D
Signal(s) : FID2B.CH
Acq On : 21 May 2025 10:12
Operator : YP/AJ
Sample : VBF0521S2 50X
Misc : 5.00G/5.00 ML MEOH
ALS Vial : 3 Sample Multiplier: 1

Instrument :
FID_B
ClientSampleId :
VBF0521S2

Integration File: Calibration.e
Quant Time: May 22 01:48:07 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	382935	17.709 ng/ml
Target Compounds			

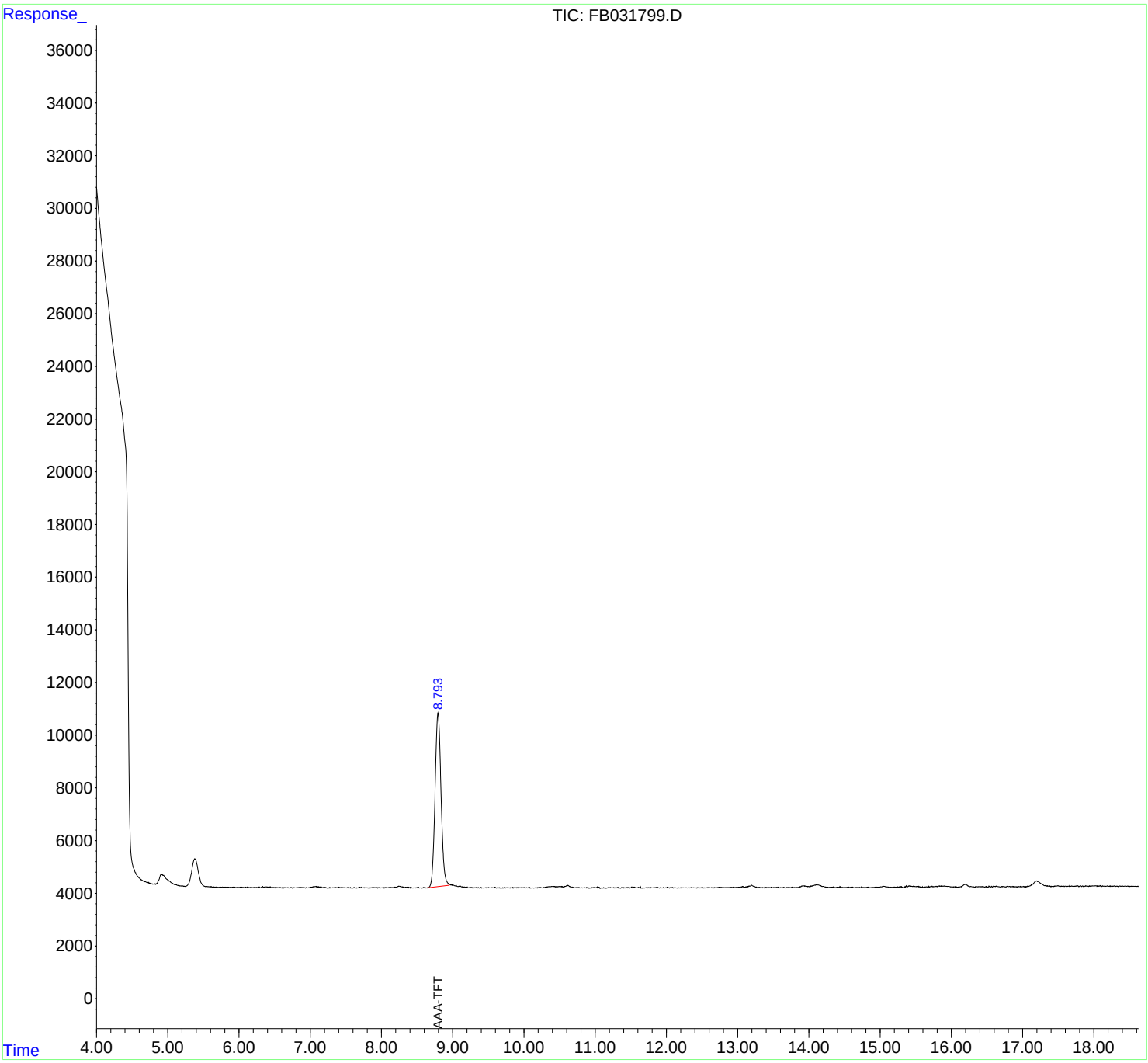
(f)=RT Delta > 1/2 Window (m)=manual int.

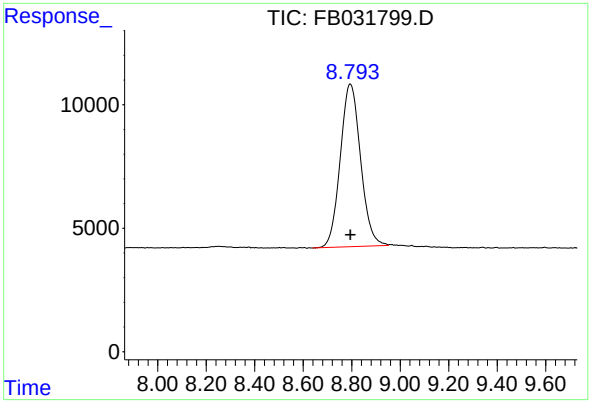
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB052125\
Data File : FB031799.D
Signal(s) : FID2B.CH
Acq On : 21 May 2025 10:12
Operator : YP/AJ
Sample : VBF0521S2 50X
Misc : 5.00G/5.00 ML MEOH
ALS Vial : 3 Sample Multiplier: 1

Instrument :
FID_B
ClientSampleId :
VBF0521S2

Integration File: Calibration.e
Quant Time: May 22 01:48:07 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:	382935
Conc:	17.71 ng/ml

Instrument :
FID_B
ClientSampleId :
VBF0521S2

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB052125\
Data File : FB031799.D
Signal(s) : FID2B.CH
Acq On : 21 May 2025 10:12
Sample : VBF0521S2 50X
Misc : 5.00G/5.00 ML MEOH
ALS Vial : 3 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	8.794	8.640	8.951	BV	6591	382935	100.00%	100.000%
			Sum of corrected areas:			382935		

FB051925.M Thu May 22 02:47:23 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB052025\
Data File : FB031782.D
Signal(s) : FID2B.CH
Acq On : 20 May 2025 10:55
Operator : YP/AJ
Sample : BSF0520S1
Misc : 5.00G/5.00 ML DI WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
FID_B
ClientSampleId :
BSF0520S1

Integration File: Calibration.e
Quant Time: May 20 23:34:00 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	432126	19.984	ng/ml
	Target Compounds				
1) t	2-Methylpentane	4.727	899976	26.994	ng/ml
2) t	2,2,4-Trimethylpentane	7.427	1083044	27.099	ng/ml
3) t	n-Heptane	7.758	329077	8.603	ng/ml
4) t	Benzene	7.897	413479	8.818	ng/ml
6) t	Toluene	10.625	1191254	26.980	ng/ml
7) t	Ethylbenzene	13.062	348803	8.991	ng/ml
8) t	m-Xylene	13.195	771641	17.897	ng/ml
9) t	O-Xylene	13.923	718007	17.991	ng/ml
10) t	1,2,4-Trimethylbenzene	16.198	498431	17.469	ng/ml

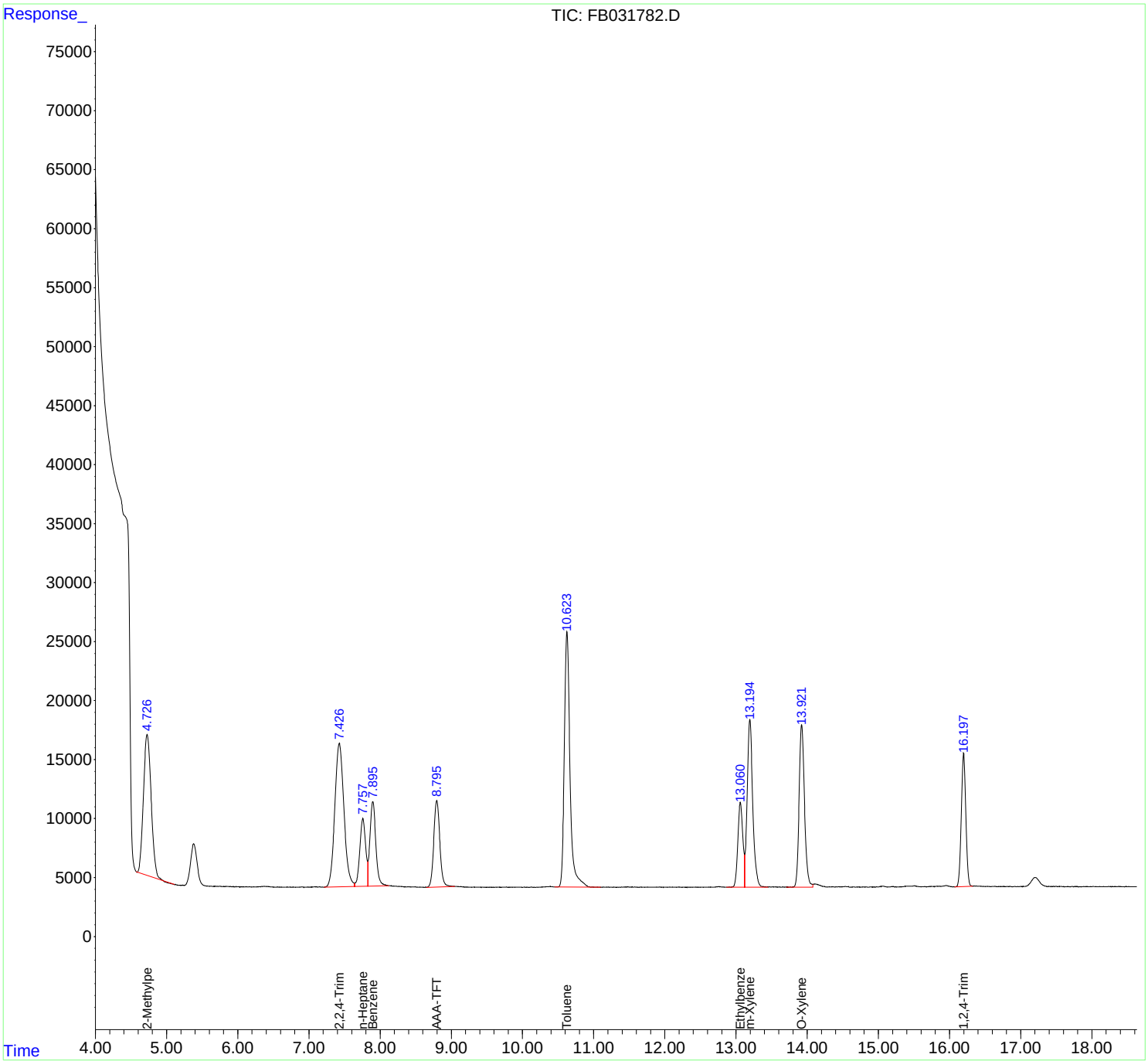
(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB052025\
Data File : FB031782.D
Signal(s) : FID2B.CH
Acq On : 20 May 2025 10:55
Operator : YP/AJ
Sample : BSF0520S1
Misc : 5.00G/5.00 ML DI WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
FID_B
ClientSampleId :
BSF0520S1

Integration File: Calibration.e
Quant Time: May 20 23:34:00 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



rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB052025\
Data File : FB031782.D
Signal(s) : FID2B.CH
Acq On : 20 May 2025 10:55
Sample : BSF0520S1
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	4.576	5.113	BV	11952	899976	75.55%	13.461%
2	7.427	7.210	7.641	PV	12178	1083044	90.92%	16.199%
3	7.758	7.641	7.826	VV	5762	329077	27.62%	4.922%
4	7.897	7.826	8.128	VV	7173	413479	34.71%	6.184%
5	8.796	8.646	9.052	PV	7334	432126	36.27%	6.463%
6	10.625	10.449	11.097	BV	21624	1191254	100.00%	17.818%
7	13.062	12.865	13.121	BV	7200	348803	29.28%	5.217%
8	13.195	13.121	13.452	VV	14201	771641	64.78%	11.541%
9	13.923	13.705	14.078	BV	13751	718007	60.27%	10.739%
10	16.198	16.071	16.327	PV	11309	498431	41.84%	7.455%

Sum of corrected areas: 6685838

FB051925.M Wed May 21 00:17:42 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

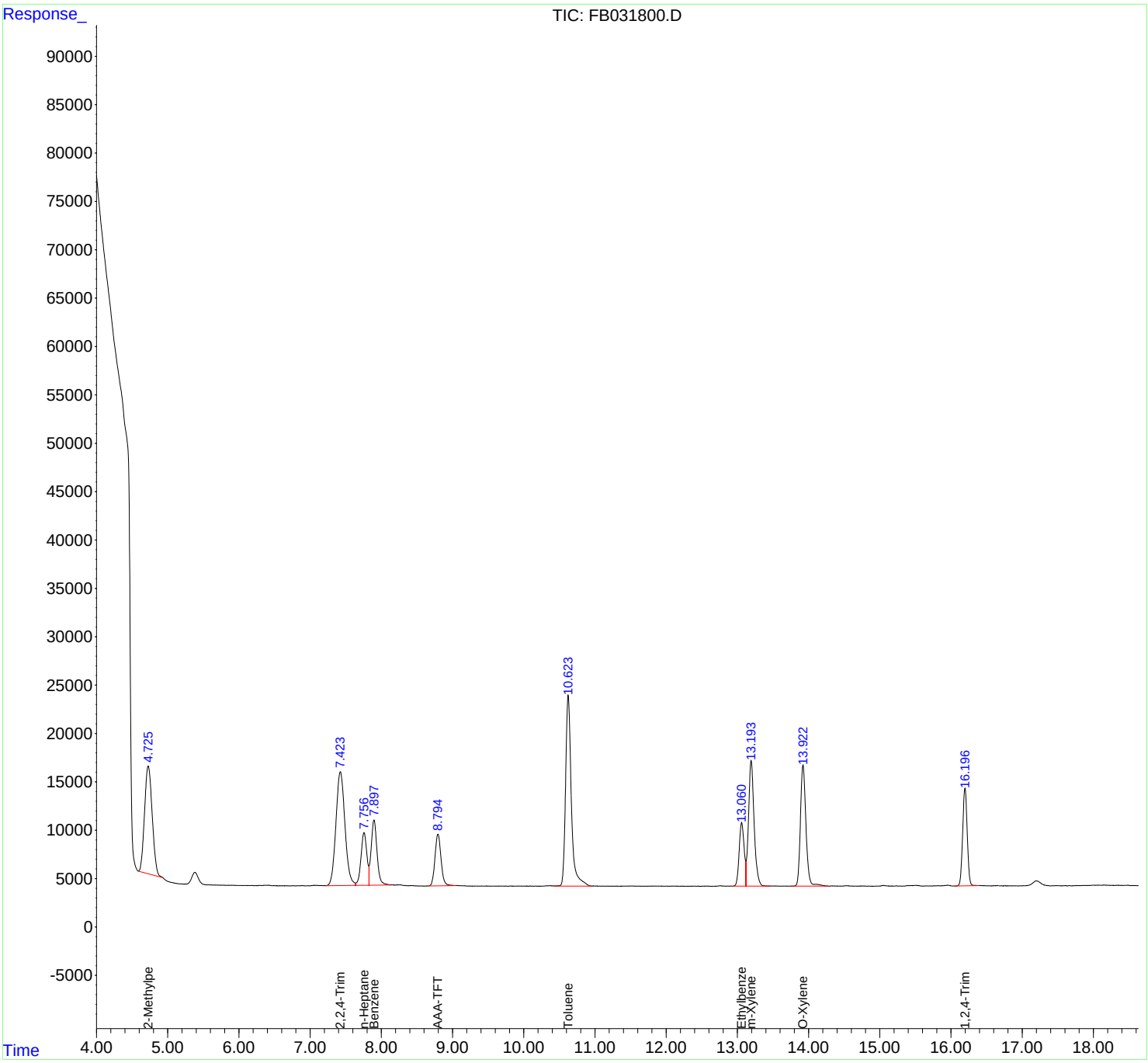
Integration File: Calibration.e
Quant Time: May 22 01:48:16 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_B\Method\FB051925.M
Quant Title :
QLast Update : Mon May 19 10:47:15 2025
Response via : Initial Calibration
Integrator: ChemStation

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\FB052025\
Data File : FB031789.D
Signal(s) : FID2B.CH
Acq On : 20 May 2025 14:33
Operator : YP/AJ
Sample : BSF0520S2
Misc : 5.00G/5.00 ML DI WATER
ALS Vial : 13 Sample Multiplier: 1

Instrument :
FID_B
ClientSampleId :
BSF0520S2

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 05/21/2025
Supervised By :mohammad ahmed 05/22/2025

Integration File: Calibration.e
Quant Time: May 20 23:35:29 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	405619	18.758	ng/ml
	Target Compounds				
1) t	2-Methylpentane	4.728	994589	29.832	ng/mlm
2) t	2,2,4-Trimethylpentane	7.429	1191514	29.813	ng/ml
3) t	n-Heptane	7.758	364936	9.541	ng/ml
4) t	Benzene	7.898	466319	9.945	ng/ml
6) t	Toluene	10.625	1310917	29.690	ng/ml
7) t	Ethylbenzene	13.061	380187	9.800	ng/ml
8) t	m-Xylene	13.194	839782	19.477	ng/ml
9) t	O-Xylene	13.923	783651	19.636	ng/ml
10) t	1,2,4-Trimethylbenzene	16.198	542557	19.016	ng/ml

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

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB052025\
Data File : FB031789.D
Signal(s) : FID2B.CH
Acq On : 20 May 2025 14:33
Operator : YP/AJ
Sample : BSF0520S2
Misc : 5.00G/5.00 ML DI WATER
ALS Vial : 13 Sample Multiplier: 1

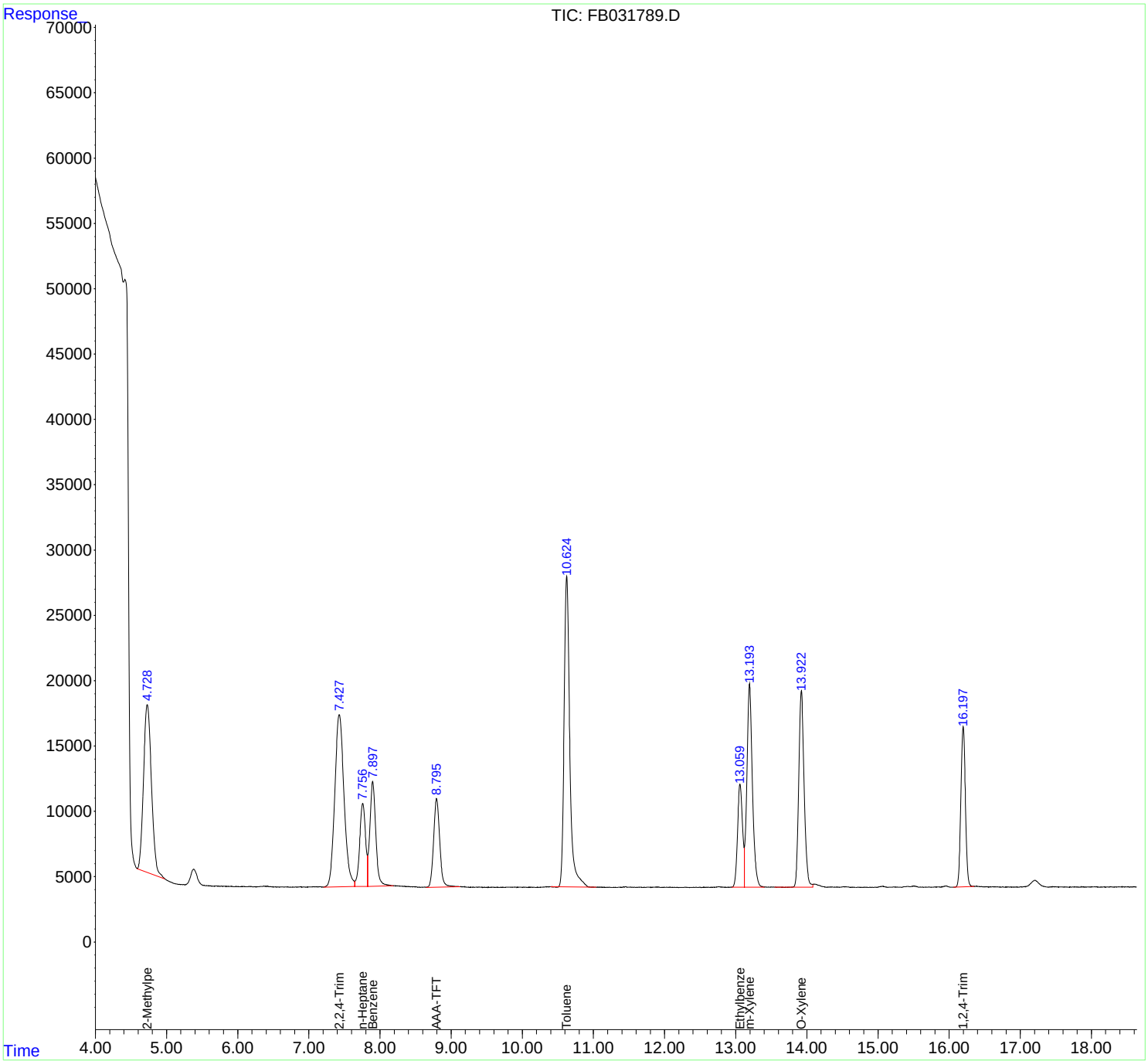
Integration File: Calibration.e
Quant Time: May 20 23:35:29 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_B\Method\FB051925.M
Quant Title :
QLast Update : Mon May 19 10:47:15 2025
Response via : Initial Calibration
Integrator: ChemStation

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

Instrument :
FID_B
ClientSampleId :
BSF0520S2

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 05/21/2025
Supervised By :mohammad ahmed 05/22/2025



Instrument :
FID_B
ClientSampleId :
BSF0520S2

rteres

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 05/21/2025
Supervised By :mohammad ahmed 05/22/2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB0520
Data File : FB031789.D
Signal(s) : FID2B.CH
Acq On : 20 May 2025 14:33
Sample : BSF0520S2
Misc : 5.00G/5.00 ML DI WATER
ALS Vial : 13 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	4.729	4.576	5.200	BV	12812	979319	74.70%	13.480%
2	7.429	7.202	7.646	PV	13178	1191514	90.89%	16.401%
3	7.758	7.646	7.827	VV	6352	364936	27.84%	5.023%
4	7.898	7.827	8.192	VV	8013	466319	35.57%	6.419%
5	8.796	8.645	9.124	PV	6792	405619	30.94%	5.583%
6	10.625	10.399	11.042	BV	23786	1310917	100.00%	18.045%
7	13.061	12.943	13.121	VV	7890	380187	29.00%	5.233%
8	13.194	13.121	13.404	VV	15564	839782	64.06%	11.560%
9	13.923	13.544	14.084	BV	15039	783651	59.78%	10.787%
10	16.198	16.057	16.352	BV	12237	542557	41.39%	7.468%

Sum of corrected areas: 7264800

FB051925.M Wed May 21 00:18:16 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		FB031779.D	FB052025	AAA-TFT	mohammad	5/22/2025 6:39:33 AM	Peak Integrated by Software incorrectly
BSF0520S2		FB031789.D	FB052025	2-Methylpentane	mohammad	5/22/2025 6:39:33 AM	Peak Integrated by Software incorrectly
20 PPB GRO STD		FB031790.D	FB052025	2-Methylpentane	mohammad	5/22/2025 6:39:33 AM	Peak Integrated by Software incorrectly
Q2074-07		FB031794.D	FB052025	AAA-TFT	mohammad	5/22/2025 6:39:33 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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Fax : 908 789 8922

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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Fax : 908 789 8922

Instrument ID: FID_B

Daily Analysis Runlog For Sequence/QCBatch ID # FB052025

Review By	yogesh	Review On	5/20/2025 12:45:48 PM		
Supervise By	mohammad	Supervise On	5/22/2025 6:39:33 AM		
SubDirectory	FB052025	HP Acquire Method		HP Processing Method	FB051925

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24110,PP24585,PP24586,PP24587,PP24588,PP24589
CCC	PP24592,PP24593,PP24594
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	FB031779.D	20 May 2025 9:17	YP/AJ	Ok,M
2	VBF0520S1	FB031780.D	20 May 2025 10:00	YP/AJ	Ok
3	VBF0520S2	FB031781.D	20 May 2025 10:28	YP/AJ	Ok
4	BSF0520S1	FB031782.D	20 May 2025 10:55	YP/AJ	Ok
5	Q2074-01	FB031783.D	20 May 2025 11:23	YP/AJ	Ok
6	Q2074-02	FB031784.D	20 May 2025 11:50	YP/AJ	Ok
7	Q2074-03	FB031785.D	20 May 2025 12:27	YP/AJ	Ok
8	Q2074-04	FB031786.D	20 May 2025 13:11	YP/AJ	Ok
9	Q2074-05	FB031787.D	20 May 2025 13:38	YP/AJ	Not Ok
10	Q2074-06	FB031788.D	20 May 2025 14:06	YP/AJ	Ok
11	BSF0520S2	FB031789.D	20 May 2025 14:33	YP/AJ	Ok,M
12	20 PPB GRO STD	FB031790.D	20 May 2025 15:01	YP/AJ	Ok,M
13	Q2074-07	FB031791.D	20 May 2025 15:56	YP/AJ	Not Ok
14	Q2074-08	FB031792.D	20 May 2025 16:31	YP/AJ	Not Ok
15	Q2074-05	FB031793.D	20 May 2025 16:59	YP/AJ	Not Ok
16	Q2074-07	FB031794.D	20 May 2025 17:27	YP/AJ	Not Ok
17	Q2074-08	FB031795.D	20 May 2025 17:54	YP/AJ	Not Ok
18	Q2074-05	FB031796.D	20 May 2025 18:22	YP/AJ	Not Ok

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

Alliance TECHNICAL GROUP
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Fax : 908 789 8922

Instrument ID: FID_B

Daily Analysis Runlog For Sequence/QCBatch ID # FB052025

Review By	yogesh	Review On	5/20/2025 12:45:48 PM		
Supervise By	mohammad	Supervise On	5/22/2025 6:39:33 AM		
SubDirectory	FB052025	HP Acquire Method		HP Processing Method	FB051925

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24110,PP24585,PP24586,PP24587,PP24588,PP24589
CCC	PP24592,PP24593,PP24594
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		FB031779.D	20 May 2025 9:17		YP/AJ	Ok,M
2	VBF0520S1		FB031780.D	20 May 2025 10:00		YP/AJ	Ok
3	VBF0520S2		FB031781.D	20 May 2025 10:28		YP/AJ	Ok
4	BSF0520S1		FB031782.D	20 May 2025 10:55		YP/AJ	Ok
5	Q2074-01		FB031783.D	20 May 2025 11:23	Vial-A	YP/AJ	Ok
6	Q2074-02		FB031784.D	20 May 2025 11:50	Vial-A	YP/AJ	Ok
7	Q2074-03		FB031785.D	20 May 2025 12:27	Vial-A	YP/AJ	Ok
8	Q2074-04		FB031786.D	20 May 2025 13:11	Vial-A	YP/AJ	Ok
9	Q2074-05		FB031787.D	20 May 2025 13:38	Vial-A, Not purged	YP/AJ	Not Ok
10	Q2074-06		FB031788.D	20 May 2025 14:06	Vial-A	YP/AJ	Ok
11	BSF0520S2		FB031789.D	20 May 2025 14:33		YP/AJ	Ok,M
12	20 PPB GRO STD		FB031790.D	20 May 2025 15:01		YP/AJ	Ok,M
13	Q2074-07		FB031791.D	20 May 2025 15:56	Vial-A End CCC Missing, Instrument Stopped	YP/AJ	Not Ok
14	Q2074-08		FB031792.D	20 May 2025 16:31	Vial-A End CCC Missing, Instrument Stopped	YP/AJ	Not Ok
15	Q2074-05		FB031793.D	20 May 2025 16:59	Vial-B End CCC Missing, Instrument Stopped	YP/AJ	Not Ok
16	Q2074-07		FB031794.D	20 May 2025 17:27	Vial-B End CCC Missing, Instrument Stopped	YP/AJ	Not Ok
17	Q2074-08		FB031795.D	20 May 2025 17:54	Vial-B End CCC Missing, Instrument Stopped	YP/AJ	Not Ok

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Instrument ID: FID_B

Daily Analysis Runlog For Sequence/QCBatch ID # FB052025

Review By	yogesh	Review On	5/20/2025 12:45:48 PM		
Supervise By	mohammad	Supervise On	5/22/2025 6:39:33 AM		
SubDirectory	FB052025	HP Acquire Method		HP Processing Method	FB051925

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24110,PP24585,PP24586,PP24587,PP24588,PP24589
CCC	PP24592,PP24593,PP24594
Internal Standard/PEM	
ICV/I.BLK	PP24111,PP24590
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

18	Q2074-05		FB031796.D	20 May 2025 18:22	Vial-C End CCC Missing, Instrument Stopped	YP/AJ	Not Ok

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

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

LAB CHRONICLE

OrderID:	Q2074	**OrderDate:**	5/16/2025 3:13:00 PM
Client:	CDM Smith	**Project:**	South River WM Replacement
Contact:	Marcie Ann Encinas	**Location:**	L31,VOA Ref. #2 Soil

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2074-01	**TP-12**	**SOIL**			**05/15/25**			**05/16/25**
			Diesel Range Organics	8015D		05/20/25	05/21/25	
			Herbicide	8151A		05/21/25	05/22/25	
			PCB	8082A		05/20/25	05/20/25	
			Pesticide-TCL	8081B		05/20/25	05/20/25	
			Gasoline Range Organics	8015D			05/20/25	
Q2074-02	**TP-7**	**SOIL**			**05/15/25**			**05/16/25**
			Diesel Range Organics	8015D		05/20/25	05/21/25	
			Herbicide	8151A		05/21/25	05/22/25	
			PCB	8082A		05/20/25	05/20/25	
			Pesticide-TCL	8081B		05/20/25	05/20/25	
			Gasoline Range Organics	8015D			05/20/25	
Q2074-03	**TP-15**	**SOIL**			**05/15/25**			**05/16/25**
			Diesel Range Organics	8015D		05/20/25	05/21/25	
			Herbicide	8151A		05/21/25	05/22/25	
			PCB	8082A		05/20/25	05/20/25	
			Pesticide-TCL	8081B		05/20/25	05/20/25	
			Gasoline Range Organics	8015D			05/20/25	
Q2074-04	**TP-20**	**SOIL**			**05/15/25**			**05/16/25**
			Diesel Range Organics	8015D		05/20/25	05/21/25	
			Herbicide	8151A		05/21/25	05/22/25	
			PCB	8082A		05/20/25	05/20/25	
			Pesticide-TCL	8081B		05/20/25	05/20/25	
			Gasoline Range Organics	8015D			05/20/25	
Q2074-05	**TP-38**	**SOIL**			**05/15/25**			**05/16/25**
			Diesel Range Organics	8015D		05/20/25	05/21/25	
			Gasoline Range Organics	8015D			05/21/25	

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LAB CHRONICLE

			Herbicide	8151A		05/21/25	05/22/25
			PCB	8082A		05/20/25	05/20/25
			Pesticide-TCL	8081B		05/20/25	05/20/25
Q2074-06	**TP-19**	**SOIL**			**05/15/25**		**05/16/25**
			Diesel Range Organics	8015D		05/20/25	05/21/25
			Herbicide	8151A		05/21/25	05/22/25
			PCB	8082A		05/20/25	05/20/25
			Pesticide-TCL	8081B		05/20/25	05/20/25
			Gasoline Range Organics	8015D			05/20/25
Q2074-07	**TP-40**	**SOIL**			**05/15/25**		**05/16/25**
			Diesel Range Organics	8015D		05/20/25	05/21/25
			Gasoline Range Organics	8015D			05/21/25
			Herbicide	8151A		05/21/25	05/22/25
			PCB	8082A		05/20/25	05/20/25
			Pesticide-TCL	8081B		05/20/25	05/20/25
Q2074-08	**TP-18**	**SOIL**			**05/16/25**		**05/16/25**
			Diesel Range Organics	8015D		05/20/25	05/21/25
			Gasoline Range Organics	8015D			05/21/25
			Herbicide	8151A		05/21/25	05/23/25
			PCB	8082A		05/20/25	05/20/25
			Pesticide-TCL	8081B		05/20/25	05/20/25

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Fax : 908 789 8922

Hit Summary Sheet
SW-846

SDG No.: Q2074

Client: CDM Smith

Sample ID	Client ID	Matrix	Parameter		Concentration	C	MDL	RDL	Units
Client ID : TP-12									
Q2074-01	TP-12	SOIL	Acenaphthylene		90.100	J	34.5	200	ug/Kg
Q2074-01	TP-12	SOIL	Phenanthrene		110.000	J	25	200	ug/Kg
Q2074-01	TP-12	SOIL	Fluoranthene		800.000		35.8	200	ug/Kg
Q2074-01	TP-12	SOIL	Pyrene		630.000		43	200	ug/Kg
Q2074-01	TP-12	SOIL	Benzo(a)anthracene		300.000		27.5	200	ug/Kg
Q2074-01	TP-12	SOIL	Chrysene		370.000		23.8	200	ug/Kg
Q2074-01	TP-12	SOIL	Benzo(b)fluoranthene		450.000		22.7	200	ug/Kg
Q2074-01	TP-12	SOIL	Benzo(k)fluoranthene		91.000	J	26.8	200	ug/Kg
Q2074-01	TP-12	SOIL	Benzo(a)pyrene		310.000		35.2	200	ug/Kg
Q2074-01	TP-12	SOIL	Indeno(1,2,3-cd)pyrene		120.000	J	34.8	200	ug/Kg
Q2074-01	TP-12	SOIL	Benzo(g,h,i)perylene		140.000	J	30.7	200	ug/Kg
			Total Svoc :		**3,411.10**				
Q2074-01	TP-12	SOIL	1-Hexacosene	*	92.800	J	0	0	ug/Kg
Q2074-01	TP-12	SOIL	2-Pentanone, 4-hydroxy-4-methyl	*	250.000	AB	0	0	ug/Kg
Q2074-01	TP-12	SOIL	4H-Cyclopenta[def]phenanthrene	*	340.000	J	0	0	ug/Kg
Q2074-01	TP-12	SOIL	Benzo[e]pyrene	*	230.000	J	0	0	ug/Kg
Q2074-01	TP-12	SOIL	Benzophenone	*	170.000	J	0	0	ug/Kg
Q2074-01	TP-12	SOIL	Decahydro-1,1,4a,5,6-pentamethy	*	130.000	J	0	0	ug/Kg
Q2074-01	TP-12	SOIL	Fluoranthene, 2-methyl-	*	150.000	J	0	0	ug/Kg
Q2074-01	TP-12	SOIL	Phenanthrene, 2,5-dimethyl-	*	130.000	J	0	0	ug/Kg
Q2074-01	TP-12	SOIL	Phenanthrene, 2,7-dimethyl-	*	84.800	J	0	0	ug/Kg
Q2074-01	TP-12	SOIL	Phenanthrene, 2-methyl-	*	290.000	J	0	0	ug/Kg
Q2074-01	TP-12	SOIL	Pyrene, 1-methyl-	*	92.400	J	0	0	ug/Kg
Q2074-01	TP-12	SOIL	Pyrene, 4-methyl-	*	90.800	J	0	0	ug/Kg
Q2074-01	TP-12	SOIL	Undecane, 2,6-dimethyl-	*	88.400	J	0	0	ug/Kg
Q2074-01	TP-12	SOIL	unknown12.510	*	110.000	J	0	0	ug/Kg
Q2074-01	TP-12	SOIL	Oxalic acid, cyclobutyl pentadecy	*	85.200	J	0	0	ug/Kg
			Total Tics :		**2,334.40**				
			Total Concentration:		**5,745.50**				
Client ID : TP-7									
Q2074-02	TP-7	SOIL	2-Pentanone, 4-hydroxy-4-methyl	*	270.000	AB	0	0	ug/Kg
Q2074-02	TP-7	SOIL	Benzophenone	*	180.000	J	0	0	ug/Kg
Q2074-02	TP-7	SOIL	Heptadecyl trifluoroacetate	*	140.000	J	0	0	ug/Kg
Q2074-02	TP-7	SOIL	n-Hexadecanoic acid	*	380.000	J	0	0	ug/Kg
Q2074-02	TP-7	SOIL	Octadecanoic acid	*	89.300	J	0	0	ug/Kg
			Total Tics :		**1,059.30**				

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Hit Summary Sheet
SW-846

SDG No.: Q2074

Client: CDM Smith

Sample ID	Client ID	Matrix	Parameter		Concentration	C	MDL	RDL	Units
			Total Concentration:		**1,059.30**				
Client ID : TP-15									
Q2074-03	TP-15	SOIL	2-Pentanone, 4-hydroxy-4-methyl	*	230.000	AB	0	0	ug/Kg
Q2074-03	TP-15	SOIL	Benzophenone	*	450.000	J	0	0	ug/Kg
Q2074-03	TP-15	SOIL	Methanone, (1-hydroxycyclohexy	*	84.200	J	0	0	ug/Kg
Q2074-03	TP-15	SOIL	n-Hexadecanoic acid	*	210.000	J	0	0	ug/Kg
Q2074-03	TP-15	SOIL	Trifluoroacetoxy hexadecane	*	150.000	J	0	0	ug/Kg
			Total Tics :		**1,124.20**				
			Total Concentration:		**1,124.20**				
Client ID : TP-20									
Q2074-04	TP-20	SOIL	Fluoranthene		87.400	J	35.5	200	ug/Kg
			Total Svoc :		**87.40**				
Q2074-04	TP-20	SOIL	1-Docosene	*	180.000	J	0	0	ug/Kg
Q2074-04	TP-20	SOIL	2-Pentanone, 4-hydroxy-4-methyl	*	270.000	AB	0	0	ug/Kg
Q2074-04	TP-20	SOIL	Benzophenone	*	500.000	J	0	0	ug/Kg
Q2074-04	TP-20	SOIL	Methanone, (1-hydroxycyclohexy	*	89.600	J	0	0	ug/Kg
Q2074-04	TP-20	SOIL	n-Hexadecanoic acid	*	330.000	J	0	0	ug/Kg
			Total Tics :		**1,369.60**				
			Total Concentration:		**1,457.00**				
Client ID : TP-38									
Q2074-05	TP-38	SOIL	Bis(2-ethylhexyl)phthalate		100.000	J	72.1	210	ug/Kg
			Total Svoc :		**100.00**				
Q2074-05	TP-38	SOIL	2-Pentanone, 4-hydroxy-4-methyl	*	300.000	AB	0	0	ug/Kg
Q2074-05	TP-38	SOIL	Benzophenone	*	250.000	J	0	0	ug/Kg
Q2074-05	TP-38	SOIL	Hentriacontane	*	86.900	J	0	0	ug/Kg
Q2074-05	TP-38	SOIL	Heptafluorobutyric acid, pentadec	*	120.000	J	0	0	ug/Kg
Q2074-05	TP-38	SOIL	Hexacosane	*	86.900	J	0	0	ug/Kg
Q2074-05	TP-38	SOIL	n-Hexadecanoic acid	*	360.000	J	0	0	ug/Kg
			Total Tics :		**1,203.80**				
			Total Concentration:		**1,303.80**				
Client ID : TP-19									
Q2074-06	TP-19	SOIL	1-Hexacosene	*	140.000	J	0	0	ug/Kg
Q2074-06	TP-19	SOIL	2-Pentanone, 4-hydroxy-4-methyl	*	240.000	AB	0	0	ug/Kg
Q2074-06	TP-19	SOIL	Benzophenone	*	190.000	J	0	0	ug/Kg
Q2074-06	TP-19	SOIL	n-Hexadecanoic acid	*	180.000	J	0	0	ug/Kg
			Total Tics :		**750.00**				
			Total Concentration:		**750.00**				
Client ID : TP-40									

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Hit Summary Sheet
SW-846

SDG No.: Q2074

Client: CDM Smith

Sample ID	Client ID	Matrix	Parameter		Concentration	C	MDL	RDL	Units
Q2074-07	TP-40	SOIL	Phenanthrene		140.000	J	23.4	190	ug/Kg
Q2074-07	TP-40	SOIL	Fluoranthene		440.000		33.6	190	ug/Kg
Q2074-07	TP-40	SOIL	Pyrene		300.000		40.3	190	ug/Kg
Q2074-07	TP-40	SOIL	Benzo(a)anthracene		180.000	J	25.8	190	ug/Kg
Q2074-07	TP-40	SOIL	Chrysene		200.000		22.3	190	ug/Kg
Q2074-07	TP-40	SOIL	Benzo(b)fluoranthene		320.000		21.3	190	ug/Kg
Q2074-07	TP-40	SOIL	Benzo(k)fluoranthene		79.100	J	25.1	190	ug/Kg
Q2074-07	TP-40	SOIL	Benzo(a)pyrene		200.000		33	190	ug/Kg
Q2074-07	TP-40	SOIL	Indeno(1,2,3-cd)pyrene		86.900	J	32.6	190	ug/Kg
Q2074-07	TP-40	SOIL	Benzo(g,h,i)perylene		110.000	J	28.8	190	ug/Kg
			Total Svoc :		**2,056.00**				
Q2074-07	TP-40	SOIL	1-Eicosene	*	80.600	J	0	0	ug/Kg
Q2074-07	TP-40	SOIL	2-Pentanone, 4-hydroxy-4-methyl	*	210.000	AB	0	0	ug/Kg
Q2074-07	TP-40	SOIL	Anthracene, 2-methyl-	*	160.000	J	0	0	ug/Kg
Q2074-07	TP-40	SOIL	Benzo[e]pyrene	*	140.000	J	0	0	ug/Kg
Q2074-07	TP-40	SOIL	Benzophenone	*	150.000	J	0	0	ug/Kg
			Total Tics :		**740.60**				
			Total Concentration:		**2,796.60**				
Client ID :	**TP-18**								
Q2074-08	TP-18	SOIL	2-Pentanone, 4-hydroxy-4-methyl	*	270.000	AB	0	0	ug/Kg
Q2074-08	TP-18	SOIL	Benzophenone	*	200.000	J	0	0	ug/Kg
Q2074-08	TP-18	SOIL	n-Hexadecanoic acid	*	180.000	J	0	0	ug/Kg
Q2074-08	TP-18	SOIL	Trifluoroacetoxy hexadecane	*	150.000	J	0	0	ug/Kg
			Total Tics :		**800.00**				
			Total Concentration:		**800.00**				

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:	05/15/25
Project:	South River WM Replacement	Date Received:	05/16/25
Client Sample ID:	TP-12	SDG No.:	Q2074
Lab Sample ID:	Q2074-01	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	83.5
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
BF142513.D	1	05/20/25 09:45	05/22/25 16:34	PB168083

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	26.4	U	26.4	200	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	29.0	U	29.0	200	ug/Kg
95-57-8	2-Chlorophenol	29.2	U	29.2	200	ug/Kg
95-48-7	2-Methylphenol	35.7	U	35.7	200	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	44.8	U	44.8	200	ug/Kg
98-86-2	Acetophenone	35.2	U	35.2	200	ug/Kg
65794-96-9	3+4-Methylphenols	49.1	U	49.1	390	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	56.6	U	56.6	95.6	ug/Kg
67-72-1	Hexachloroethane	21.0	U	21.0	200	ug/Kg
98-95-3	Nitrobenzene	21.9	U	21.9	200	ug/Kg
78-59-1	Isophorone	39.2	U	39.2	200	ug/Kg
88-75-5	2-Nitrophenol	69.5	U	69.5	200	ug/Kg
105-67-9	2,4-Dimethylphenol	77.4	U	77.4	200	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	36.8	U	36.8	200	ug/Kg
120-83-2	2,4-Dichlorophenol	33.8	U	33.8	200	ug/Kg
91-20-3	Naphthalene	27.1	U	27.1	200	ug/Kg
106-47-8	4-Chloroaniline	42.3	U	42.3	200	ug/Kg
87-68-3	Hexachlorobutadiene	30.2	U	30.2	200	ug/Kg
105-60-2	Caprolactam	62.3	U	62.3	390	ug/Kg
59-50-7	4-Chloro-3-methylphenol	34.3	U	34.3	200	ug/Kg
91-57-6	2-Methylnaphthalene	30.6	U	30.6	200	ug/Kg
77-47-4	Hexachlorocyclopentadiene	140	U	140	390	ug/Kg
88-06-2	2,4,6-Trichlorophenol	23.7	U	23.7	200	ug/Kg
95-95-4	2,4,5-Trichlorophenol	34.8	U	34.8	200	ug/Kg
92-52-4	1,1-Biphenyl	26.0	U	26.0	200	ug/Kg
91-58-7	2-Chloronaphthalene	26.9	U	26.9	200	ug/Kg
88-74-4	2-Nitroaniline	57.5	U	57.5	200	ug/Kg
131-11-3	Dimethylphthalate	32.4	U	32.4	200	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	05/15/25
Project:	South River WM Replacement	Date Received:	05/16/25
Client Sample ID:	TP-12	SDG No.:	Q2074
Lab Sample ID:	Q2074-01	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	83.5
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
BF142513.D	1	05/20/25 09:45	05/22/25 16:34	PB168083

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	90.1	J	34.5	200	ug/Kg
606-20-2	2,6-Dinitrotoluene	40.1	U	40.1	200	ug/Kg
99-09-2	3-Nitroaniline	55.0	U	55.0	200	ug/Kg
83-32-9	Acenaphthene	25.4	U	25.4	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	27.1	U	27.1	200	ug/Kg
121-14-2	2,4-Dinitrotoluene	59.9	U	59.9	200	ug/Kg
84-66-2	Diethylphthalate	33.8	U	33.8	200	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	31.9	U	31.9	200	ug/Kg
86-73-7	Fluorene	30.2	U	30.2	200	ug/Kg
100-01-6	4-Nitroaniline	76.7	U	76.7	200	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	120	U	120	390	ug/Kg
86-30-6	n-Nitrosodiphenylamine	39.3	U	39.3	200	ug/Kg
101-55-3	4-Bromophenyl-phenylether	33.2	U	33.2	200	ug/Kg
118-74-1	Hexachlorobenzene	30.2	U	30.2	200	ug/Kg
1912-24-9	Atrazine	40.6	U	40.6	200	ug/Kg
87-86-5	Pentachlorophenol	61.3	U	61.3	390	ug/Kg
85-01-8	Phenanthrene	110	J	25.0	200	ug/Kg
120-12-7	Anthracene	39.8	U	39.8	200	ug/Kg
86-74-8	Carbazole	37.3	U	37.3	200	ug/Kg
84-74-2	Di-n-butylphthalate	57.2	U	57.2	200	ug/Kg
206-44-0	Fluoranthene	800		35.8	200	ug/Kg
129-00-0	Pyrene	630		43.0	200	ug/Kg
85-68-7	Butylbenzylphthalate	85.3	U	85.3	200	ug/Kg
91-94-1	3,3-Dichlorobenzidine	43.8	U	43.8	390	ug/Kg
56-55-3	Benzo(a)anthracene	300		27.5	200	ug/Kg
218-01-9	Chrysene	370		23.8	200	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	70.7	U	70.7	200	ug/Kg
117-84-0	Di-n-octyl phthalate	100	U	100	390	ug/Kg
205-99-2	Benzo(b)fluoranthene	450		22.7	200	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	05/15/25
Project:	South River WM Replacement	Date Received:	05/16/25
Client Sample ID:	TP-12	SDG No.:	Q2074
Lab Sample ID:	Q2074-01	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	83.5
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
BF142513.D	1	05/20/25 09:45	05/22/25 16:34	PB168083

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	91.0	J	26.8	200	ug/Kg
50-32-8	Benzo(a)pyrene	310		35.2	200	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	120	J	34.8	200	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	32.7	U	32.7	200	ug/Kg
191-24-2	Benzo(g,h,i)perylene	140	J	30.7	200	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	30.6	U	30.6	200	ug/Kg
123-91-1	1,4-Dioxane	54.0	U	54.0	200	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	32.7	U	32.7	200	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	82.6		18 - 112	55%	SPK: 150
13127-88-3	Phenol-d6	79.8		15 - 107	53%	SPK: 150
4165-60-0	Nitrobenzene-d5	52.4		18 - 107	52%	SPK: 100
321-60-8	2-Fluorobiphenyl	48.9		20 - 109	49%	SPK: 100
118-79-6	2,4,6-Tribromophenol	74.1		10 - 116	49%	SPK: 150
1718-51-0	Terphenyl-d14	37.7		10 - 105	38%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	101000	6.898			
1146-65-2	Naphthalene-d8	332000	8.181			
15067-26-2	Acenaphthene-d10	142000	9.934			
1517-22-2	Phenanthrene-d10	236000	11.422			
1719-03-5	Chrysene-d12	183000	14.063			
1520-96-3	Perylene-d12	150000	15.557			
TENTATIVE IDENTIFIED COMPOUNDS						
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	250	AB		5.12	ug/Kg
017301-23-4	Undecane, 2,6-dimethyl-	88.4	J		8.23	ug/Kg
1010309-70-5	Oxalic acid, cyclobutyl pentadecyl	85.2	J		9.34	ug/Kg
080655-44-3	Decahydro-1,1,4a,5,6-pentamethylna	130	J		9.64	ug/Kg
000119-61-9	Benzophenone	170	J		10.6	ug/Kg
002531-84-2	Phenanthrene, 2-methyl-	290	J		11.9	ug/Kg
000203-64-5	4H-Cyclopenta[def]phenanthrene	340	J		12.0	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	05/15/25
Project:	South River WM Replacement	Date Received:	05/16/25
Client Sample ID:	TP-12	SDG No.:	Q2074
Lab Sample ID:	Q2074-01	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	83.5
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
BF142513.D	1	05/20/25 09:45	05/22/25 16:34	PB168083

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
003674-66-6	Phenanthrene, 2,5-dimethyl-	130	J		12.5	ug/Kg
	unknown12.510	110	J		12.5	ug/Kg
001576-69-8	Phenanthrene, 2,7-dimethyl-	84.8	J		12.6	ug/Kg
002381-21-7	Pyrene, 1-methyl-	92.4	J		13.1	ug/Kg
033543-31-6	Fluoranthene, 2-methyl-	150	J		13.2	ug/Kg
003353-12-6	Pyrene, 4-methyl-	90.8	J		13.3	ug/Kg
018835-33-1	1-Hexacosene	92.8	J		13.9	ug/Kg
000192-97-2	Benzo[e]pyrene	230	J		15.4	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:	05/15/25
Project:	South River WM Replacement	Date Received:	05/16/25
Client Sample ID:	TP-7	SDG No.:	Q2074
Lab Sample ID:	Q2074-02	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	88.7
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
BF142481.D	1	05/20/25 09:45	05/21/25 12:14	PB168083

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	27.3	U	27.3	190	ug/Kg
95-57-8	2-Chlorophenol	27.5	U	27.5	190	ug/Kg
95-48-7	2-Methylphenol	33.6	U	33.6	190	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	42.2	U	42.2	190	ug/Kg
98-86-2	Acetophenone	33.2	U	33.2	190	ug/Kg
65794-96-9	3+4-Methylphenols	46.2	U	46.2	370	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	53.3	U	53.3	90.0	ug/Kg
67-72-1	Hexachloroethane	19.8	U	19.8	190	ug/Kg
98-95-3	Nitrobenzene	20.6	U	20.6	190	ug/Kg
78-59-1	Isophorone	36.9	U	36.9	190	ug/Kg
88-75-5	2-Nitrophenol	65.5	U	65.5	190	ug/Kg
105-67-9	2,4-Dimethylphenol	72.9	U	72.9	190	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	34.7	U	34.7	190	ug/Kg
120-83-2	2,4-Dichlorophenol	31.8	U	31.8	190	ug/Kg
91-20-3	Naphthalene	25.5	U	25.5	190	ug/Kg
106-47-8	4-Chloroaniline	39.8	U	39.8	190	ug/Kg
87-68-3	Hexachlorobutadiene	28.5	U	28.5	190	ug/Kg
105-60-2	Caprolactam	58.6	U	58.6	370	ug/Kg
59-50-7	4-Chloro-3-methylphenol	32.3	U	32.3	190	ug/Kg
91-57-6	2-Methylnaphthalene	28.8	U	28.8	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	32.7	U	32.7	190	ug/Kg
92-52-4	1,1-Biphenyl	24.5	U	24.5	190	ug/Kg
91-58-7	2-Chloronaphthalene	25.3	U	25.3	190	ug/Kg
88-74-4	2-Nitroaniline	54.1	U	54.1	190	ug/Kg
131-11-3	Dimethylphthalate	30.5	U	30.5	190	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	05/15/25
Project:	South River WM Replacement	Date Received:	05/16/25
Client Sample ID:	TP-7	SDG No.:	Q2074
Lab Sample ID:	Q2074-02	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	88.7
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
BF142481.D	1	05/20/25 09:45	05/21/25 12:14	PB168083

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	32.5	U	32.5	190	ug/Kg
606-20-2	2,6-Dinitrotoluene	37.8	U	37.8	190	ug/Kg
99-09-2	3-Nitroaniline	51.8	U	51.8	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	25.5	U	25.5	190	ug/Kg
121-14-2	2,4-Dinitrotoluene	56.4	U	56.4	190	ug/Kg
84-66-2	Diethylphthalate	31.8	U	31.8	190	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	30.0	U	30.0	190	ug/Kg
86-73-7	Fluorene	28.5	U	28.5	190	ug/Kg
100-01-6	4-Nitroaniline	72.2	U	72.2	190	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	120	U	120	370	ug/Kg
86-30-6	n-Nitrosodiphenylamine	37.0	U	37.0	190	ug/Kg
101-55-3	4-Bromophenyl-phenylether	31.3	U	31.3	190	ug/Kg
118-74-1	Hexachlorobenzene	28.5	U	28.5	190	ug/Kg
1912-24-9	Atrazine	38.3	U	38.3	190	ug/Kg
87-86-5	Pentachlorophenol	57.7	U	57.7	370	ug/Kg
85-01-8	Phenanthrene	23.5	U	23.5	190	ug/Kg
120-12-7	Anthracene	37.5	U	37.5	190	ug/Kg
86-74-8	Carbazole	35.1	U	35.1	190	ug/Kg
84-74-2	Di-n-butylphthalate	53.9	U	53.9	190	ug/Kg
206-44-0	Fluoranthene	33.8	U	33.8	190	ug/Kg
129-00-0	Pyrene	40.5	U	40.5	190	ug/Kg
85-68-7	Butylbenzylphthalate	80.3	U	80.3	190	ug/Kg
91-94-1	3,3-Dichlorobenzidine	41.3	U	41.3	370	ug/Kg
56-55-3	Benzo(a)anthracene	25.9	U	25.9	190	ug/Kg
218-01-9	Chrysene	22.4	U	22.4	190	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	66.6	U	66.6	190	ug/Kg
117-84-0	Di-n-octyl phthalate	97.7	U	97.7	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:	05/15/25
Project:	South River WM Replacement	Date Received:	05/16/25
Client Sample ID:	TP-7	SDG No.:	Q2074
Lab Sample ID:	Q2074-02	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	88.7
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
BF142481.D	1	05/20/25 09:45	05/21/25 12:14	PB168083

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	25.2	U	25.2	190	ug/Kg
50-32-8	Benzo(a)pyrene	33.2	U	33.2	190	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	32.7	U	32.7	190	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	30.8	U	30.8	190	ug/Kg
191-24-2	Benzo(g,h,i)perylene	28.9	U	28.9	190	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	28.8	U	28.8	190	ug/Kg
123-91-1	1,4-Dioxane	50.9	U	50.9	190	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	30.8	U	30.8	190	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	86.5		18 - 112	58%	SPK: 150
13127-88-3	Phenol-d6	89.6		15 - 107	60%	SPK: 150
4165-60-0	Nitrobenzene-d5	53.5		18 - 107	54%	SPK: 100
321-60-8	2-Fluorobiphenyl	50.0		20 - 109	50%	SPK: 100
118-79-6	2,4,6-Tribromophenol	92.4		10 - 116	62%	SPK: 150
1718-51-0	Terphenyl-d14	38.1		10 - 105	38%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	88100	6.898			
1146-65-2	Naphthalene-d8	330000	8.181			
15067-26-2	Acenaphthene-d10	169000	9.939			
1517-22-2	Phenanthrene-d10	294000	11.422			
1719-03-5	Chrysene-d12	264000	14.063			
1520-96-3	Perylene-d12	239000	15.557			
TENTATIVE IDENTIFIED COMPOUNDS						
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	270	AB		5.10	ug/Kg
000119-61-9	Benzophenone	180	J		10.7	ug/Kg
000057-10-3	n-Hexadecanoic acid	380	J		11.9	ug/Kg
000057-11-4	Octadecanoic acid	89.3	J		12.7	ug/Kg
1010351-87-0	Heptadecyl trifluoroacetate	140	J		13.9	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	05/15/25
Project:	South River WM Replacement	Date Received:	05/16/25
Client Sample ID:	TP-7	SDG No.:	Q2074
Lab Sample ID:	Q2074-02	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	88.7
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
BF142481.D	1	05/20/25 09:45	05/21/25 12:14	PB168083

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:	05/15/25
Project:	South River WM Replacement	Date Received:	05/16/25
Client Sample ID:	TP-15	SDG No.:	Q2074
Lab Sample ID:	Q2074-03	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	87
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
BF142514.D	1	05/20/25 09:45	05/22/25 17:03	PB168083

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	180	U	180	380	ug/Kg
108-95-2	Phenol	25.4	U	25.4	200	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	27.9	U	27.9	200	ug/Kg
95-57-8	2-Chlorophenol	28.0	U	28.0	200	ug/Kg
95-48-7	2-Methylphenol	34.3	U	34.3	200	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	43.1	U	43.1	200	ug/Kg
98-86-2	Acetophenone	33.9	U	33.9	200	ug/Kg
65794-96-9	3+4-Methylphenols	47.2	U	47.2	380	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	54.4	U	54.4	91.9	ug/Kg
67-72-1	Hexachloroethane	20.2	U	20.2	200	ug/Kg
98-95-3	Nitrobenzene	21.0	U	21.0	200	ug/Kg
78-59-1	Isophorone	37.7	U	37.7	200	ug/Kg
88-75-5	2-Nitrophenol	66.9	U	66.9	200	ug/Kg
105-67-9	2,4-Dimethylphenol	74.4	U	74.4	200	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	35.4	U	35.4	200	ug/Kg
120-83-2	2,4-Dichlorophenol	32.5	U	32.5	200	ug/Kg
91-20-3	Naphthalene	26.1	U	26.1	200	ug/Kg
106-47-8	4-Chloroaniline	40.7	U	40.7	200	ug/Kg
87-68-3	Hexachlorobutadiene	29.1	U	29.1	200	ug/Kg
105-60-2	Caprolactam	59.8	U	59.8	380	ug/Kg
59-50-7	4-Chloro-3-methylphenol	33.0	U	33.0	200	ug/Kg
91-57-6	2-Methylnaphthalene	29.4	U	29.4	200	ug/Kg
77-47-4	Hexachlorocyclopentadiene	130	U	130	380	ug/Kg
88-06-2	2,4,6-Trichlorophenol	22.7	U	22.7	200	ug/Kg
95-95-4	2,4,5-Trichlorophenol	33.4	U	33.4	200	ug/Kg
92-52-4	1,1-Biphenyl	25.0	U	25.0	200	ug/Kg
91-58-7	2-Chloronaphthalene	25.8	U	25.8	200	ug/Kg
88-74-4	2-Nitroaniline	55.3	U	55.3	200	ug/Kg
131-11-3	Dimethylphthalate	31.1	U	31.1	200	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	05/15/25
Project:	South River WM Replacement	Date Received:	05/16/25
Client Sample ID:	TP-15	SDG No.:	Q2074
Lab Sample ID:	Q2074-03	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	87
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
BF142514.D	1	05/20/25 09:45	05/22/25 17:03	PB168083

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	33.2	U	33.2	200	ug/Kg
606-20-2	2,6-Dinitrotoluene	38.6	U	38.6	200	ug/Kg
99-09-2	3-Nitroaniline	52.8	U	52.8	200	ug/Kg
83-32-9	Acenaphthene	24.5	U	24.5	200	ug/Kg
51-28-5	2,4-Dinitrophenol	260	U	260	380	ug/Kg
100-02-7	4-Nitrophenol	120	U	120	380	ug/Kg
132-64-9	Dibenzofuran	26.1	U	26.1	200	ug/Kg
121-14-2	2,4-Dinitrotoluene	57.5	U	57.5	200	ug/Kg
84-66-2	Diethylphthalate	32.5	U	32.5	200	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	30.7	U	30.7	200	ug/Kg
86-73-7	Fluorene	29.1	U	29.1	200	ug/Kg
100-01-6	4-Nitroaniline	73.7	U	73.7	200	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	120	U	120	380	ug/Kg
86-30-6	n-Nitrosodiphenylamine	37.8	U	37.8	200	ug/Kg
101-55-3	4-Bromophenyl-phenylether	31.9	U	31.9	200	ug/Kg
118-74-1	Hexachlorobenzene	29.1	U	29.1	200	ug/Kg
1912-24-9	Atrazine	39.1	U	39.1	200	ug/Kg
87-86-5	Pentachlorophenol	58.9	U	58.9	380	ug/Kg
85-01-8	Phenanthrene	24.0	U	24.0	200	ug/Kg
120-12-7	Anthracene	38.3	U	38.3	200	ug/Kg
86-74-8	Carbazole	35.8	U	35.8	200	ug/Kg
84-74-2	Di-n-butylphthalate	55.0	U	55.0	200	ug/Kg
206-44-0	Fluoranthene	34.5	U	34.5	200	ug/Kg
129-00-0	Pyrene	41.4	U	41.4	200	ug/Kg
85-68-7	Butylbenzylphthalate	82.0	U	82.0	200	ug/Kg
91-94-1	3,3-Dichlorobenzidine	42.2	U	42.2	380	ug/Kg
56-55-3	Benzo(a)anthracene	26.4	U	26.4	200	ug/Kg
218-01-9	Chrysene	22.9	U	22.9	200	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	68.0	U	68.0	200	ug/Kg
117-84-0	Di-n-octyl phthalate	99.7	U	99.7	380	ug/Kg
205-99-2	Benzo(b)fluoranthene	21.8	U	21.8	200	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	05/15/25
Project:	South River WM Replacement	Date Received:	05/16/25
Client Sample ID:	TP-15	SDG No.:	Q2074
Lab Sample ID:	Q2074-03	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	87
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
BF142514.D	1	05/20/25 09:45	05/22/25 17:03	PB168083

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	25.7	U	25.7	200	ug/Kg
50-32-8	Benzo(a)pyrene	33.9	U	33.9	200	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	33.4	U	33.4	200	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	31.5	U	31.5	200	ug/Kg
191-24-2	Benzo(g,h,i)perylene	29.5	U	29.5	200	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	29.4	U	29.4	200	ug/Kg
123-91-1	1,4-Dioxane	51.9	U	51.9	200	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	31.5	U	31.5	200	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	70.2		18 - 112	47%	SPK: 150
13127-88-3	Phenol-d6	72.2		15 - 107	48%	SPK: 150
4165-60-0	Nitrobenzene-d5	43.7		18 - 107	44%	SPK: 100
321-60-8	2-Fluorobiphenyl	42.0		20 - 109	42%	SPK: 100
118-79-6	2,4,6-Tribromophenol	69.0		10 - 116	46%	SPK: 150
1718-51-0	Terphenyl-d14	40.8		10 - 105	41%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	111000	6.898			
1146-65-2	Naphthalene-d8	403000	8.181			
15067-26-2	Acenaphthene-d10	196000	9.934			
1517-22-2	Phenanthrene-d10	331000	11.422			
1719-03-5	Chrysene-d12	212000	14.063			
1520-96-3	Perylene-d12	173000	15.557			
TENTATIVE IDENTIFIED COMPOUNDS						
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	230	AB		5.11	ug/Kg
000119-61-9	Benzophenone	450	J		10.6	ug/Kg
000947-19-3	Methanone, (1-hydroxycyclohexyl)ph	84.2	J		11.0	ug/Kg
000057-10-3	n-Hexadecanoic acid	210	J		11.9	ug/Kg
006222-03-3	Trifluoroacetoxy hexadecane	150	J		13.9	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	05/15/25
Project:	South River WM Replacement	Date Received:	05/16/25
Client Sample ID:	TP-15	SDG No.:	Q2074
Lab Sample ID:	Q2074-03	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	87
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
BF142514.D	1	05/20/25 09:45	05/22/25 17:03	PB168083

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:	05/15/25
Project:	South River WM Replacement	Date Received:	05/16/25
Client Sample ID:	TP-20	SDG No.:	Q2074
Lab Sample ID:	Q2074-04	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	84.3
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
BF142482.D	1	05/20/25 09:45	05/21/25 12:43	PB168083

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	180	U	180	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	28.9	U	28.9	200	ug/Kg
95-48-7	2-Methylphenol	35.4	U	35.4	200	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	44.4	U	44.4	200	ug/Kg
98-86-2	Acetophenone	34.9	U	34.9	200	ug/Kg
65794-96-9	3+4-Methylphenols	48.7	U	48.7	390	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	56.1	U	56.1	94.7	ug/Kg
67-72-1	Hexachloroethane	20.8	U	20.8	200	ug/Kg
98-95-3	Nitrobenzene	21.7	U	21.7	200	ug/Kg
78-59-1	Isophorone	38.8	U	38.8	200	ug/Kg
88-75-5	2-Nitrophenol	68.9	U	68.9	200	ug/Kg
105-67-9	2,4-Dimethylphenol	76.7	U	76.7	200	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	36.5	U	36.5	200	ug/Kg
120-83-2	2,4-Dichlorophenol	33.5	U	33.5	200	ug/Kg
91-20-3	Naphthalene	26.9	U	26.9	200	ug/Kg
106-47-8	4-Chloroaniline	41.9	U	41.9	200	ug/Kg
87-68-3	Hexachlorobutadiene	30.0	U	30.0	200	ug/Kg
105-60-2	Caprolactam	61.7	U	61.7	390	ug/Kg
59-50-7	4-Chloro-3-methylphenol	34.0	U	34.0	200	ug/Kg
91-57-6	2-Methylnaphthalene	30.3	U	30.3	200	ug/Kg
77-47-4	Hexachlorocyclopentadiene	140	U	140	390	ug/Kg
88-06-2	2,4,6-Trichlorophenol	23.4	U	23.4	200	ug/Kg
95-95-4	2,4,5-Trichlorophenol	34.5	U	34.5	200	ug/Kg
92-52-4	1,1-Biphenyl	25.8	U	25.8	200	ug/Kg
91-58-7	2-Chloronaphthalene	26.6	U	26.6	200	ug/Kg
88-74-4	2-Nitroaniline	57.0	U	57.0	200	ug/Kg
131-11-3	Dimethylphthalate	32.1	U	32.1	200	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	05/15/25
Project:	South River WM Replacement	Date Received:	05/16/25
Client Sample ID:	TP-20	SDG No.:	Q2074
Lab Sample ID:	Q2074-04	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	84.3
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
BF142482.D	1	05/20/25 09:45	05/21/25 12:43	PB168083

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	34.2	U	34.2	200	ug/Kg
606-20-2	2,6-Dinitrotoluene	39.8	U	39.8	200	ug/Kg
99-09-2	3-Nitroaniline	54.5	U	54.5	200	ug/Kg
83-32-9	Acenaphthene	25.2	U	25.2	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	59.3	U	59.3	200	ug/Kg
84-66-2	Diethylphthalate	33.5	U	33.5	200	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	31.6	U	31.6	200	ug/Kg
86-73-7	Fluorene	30.0	U	30.0	200	ug/Kg
100-01-6	4-Nitroaniline	76.0	U	76.0	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	32.9	U	32.9	200	ug/Kg
118-74-1	Hexachlorobenzene	30.0	U	30.0	200	ug/Kg
1912-24-9	Atrazine	40.3	U	40.3	200	ug/Kg
87-86-5	Pentachlorophenol	60.8	U	60.8	390	ug/Kg
85-01-8	Phenanthrene	24.8	U	24.8	200	ug/Kg
120-12-7	Anthracene	39.4	U	39.4	200	ug/Kg
86-74-8	Carbazole	36.9	U	36.9	200	ug/Kg
84-74-2	Di-n-butylphthalate	56.7	U	56.7	200	ug/Kg
206-44-0	Fluoranthene	87.4	J	35.5	200	ug/Kg
129-00-0	Pyrene	42.6	U	42.6	200	ug/Kg
85-68-7	Butylbenzylphthalate	84.6	U	84.6	200	ug/Kg
91-94-1	3,3-Dichlorobenzidine	43.5	U	43.5	390	ug/Kg
56-55-3	Benzo(a)anthracene	27.2	U	27.2	200	ug/Kg
218-01-9	Chrysene	23.6	U	23.6	200	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	70.1	U	70.1	200	ug/Kg
117-84-0	Di-n-octyl phthalate	100	U	100	390	ug/Kg
205-99-2	Benzo(b)fluoranthene	22.5	U	22.5	200	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	05/15/25
Project:	South River WM Replacement	Date Received:	05/16/25
Client Sample ID:	TP-20	SDG No.:	Q2074
Lab Sample ID:	Q2074-04	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	84.3
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
BF142482.D	1	05/20/25 09:45	05/21/25 12:43	PB168083

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	26.5	U	26.5	200	ug/Kg
50-32-8	Benzo(a)pyrene	34.9	U	34.9	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	32.4	U	32.4	200	ug/Kg
191-24-2	Benzo(g,h,i)perylene	30.4	U	30.4	200	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	30.3	U	30.3	200	ug/Kg
123-91-1	1,4-Dioxane	53.5	U	53.5	200	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	32.4	U	32.4	200	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	86.5		18 - 112	58%	SPK: 150
13127-88-3	Phenol-d6	87.7		15 - 107	58%	SPK: 150
4165-60-0	Nitrobenzene-d5	50.7		18 - 107	51%	SPK: 100
321-60-8	2-Fluorobiphenyl	46.6		20 - 109	47%	SPK: 100
118-79-6	2,4,6-Tribromophenol	85.8		10 - 116	57%	SPK: 150
1718-51-0	Terphenyl-d14	40.0		10 - 105	40%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	78200	6.898			
1146-65-2	Naphthalene-d8	293000	8.181			
15067-26-2	Acenaphthene-d10	152000	9.933			
1517-22-2	Phenanthrene-d10	263000	11.422			
1719-03-5	Chrysene-d12	230000	14.063			
1520-96-3	Perylene-d12	198000	15.557			
TENTATIVE IDENTIFIED COMPOUNDS						
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	270	AB		5.10	ug/Kg
000119-61-9	Benzophenone	500	J		10.7	ug/Kg
000947-19-3	Methanone, (1-hydroxycyclohexyl)ph	89.6	J		11.0	ug/Kg
000057-10-3	n-Hexadecanoic acid	330	J		11.9	ug/Kg
001599-67-3	1-Docosene	180	J		13.9	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	05/15/25
Project:	South River WM Replacement	Date Received:	05/16/25
Client Sample ID:	TP-20	SDG No.:	Q2074
Lab Sample ID:	Q2074-04	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	84.3
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
BF142482.D	1	05/20/25 09:45	05/21/25 12:43	PB168083

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:	05/15/25
Project:	South River WM Replacement	Date Received:	05/16/25
Client Sample ID:	TP-38	SDG No.:	Q2074
Lab Sample ID:	Q2074-05	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	81.9
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
BF142505.D	1	05/20/25 09:45	05/22/25 12:42	PB168083

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	190	U	190	400	ug/Kg
108-95-2	Phenol	26.9	U	26.9	210	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	29.6	U	29.6	210	ug/Kg
95-57-8	2-Chlorophenol	29.7	U	29.7	210	ug/Kg
95-48-7	2-Methylphenol	36.4	U	36.4	210	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	45.7	U	45.7	210	ug/Kg
98-86-2	Acetophenone	35.9	U	35.9	210	ug/Kg
65794-96-9	3+4-Methylphenols	50.0	U	50.0	400	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	57.7	U	57.7	97.4	ug/Kg
67-72-1	Hexachloroethane	21.4	U	21.4	210	ug/Kg
98-95-3	Nitrobenzene	22.3	U	22.3	210	ug/Kg
78-59-1	Isophorone	39.9	U	39.9	210	ug/Kg
88-75-5	2-Nitrophenol	70.9	U	70.9	210	ug/Kg
105-67-9	2,4-Dimethylphenol	78.9	U	78.9	210	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	37.5	U	37.5	210	ug/Kg
120-83-2	2,4-Dichlorophenol	34.5	U	34.5	210	ug/Kg
91-20-3	Naphthalene	27.6	U	27.6	210	ug/Kg
106-47-8	4-Chloroaniline	43.1	U	43.1	210	ug/Kg
87-68-3	Hexachlorobutadiene	30.8	U	30.8	210	ug/Kg
105-60-2	Caprolactam	63.4	U	63.4	400	ug/Kg
59-50-7	4-Chloro-3-methylphenol	34.9	U	34.9	210	ug/Kg
91-57-6	2-Methylnaphthalene	31.2	U	31.2	210	ug/Kg
77-47-4	Hexachlorocyclopentadiene	140	U	140	400	ug/Kg
88-06-2	2,4,6-Trichlorophenol	24.1	U	24.1	210	ug/Kg
95-95-4	2,4,5-Trichlorophenol	35.4	U	35.4	210	ug/Kg
92-52-4	1,1-Biphenyl	26.5	U	26.5	210	ug/Kg
91-58-7	2-Chloronaphthalene	27.4	U	27.4	210	ug/Kg
88-74-4	2-Nitroaniline	58.6	U	58.6	210	ug/Kg
131-11-3	Dimethylphthalate	33.0	U	33.0	210	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	05/15/25
Project:	South River WM Replacement	Date Received:	05/16/25
Client Sample ID:	TP-38	SDG No.:	Q2074
Lab Sample ID:	Q2074-05	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	81.9
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
BF142505.D	1	05/20/25 09:45	05/22/25 12:42	PB168083

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	35.2	U	35.2	210	ug/Kg
606-20-2	2,6-Dinitrotoluene	40.9	U	40.9	210	ug/Kg
99-09-2	3-Nitroaniline	56.0	U	56.0	210	ug/Kg
83-32-9	Acenaphthene	25.9	U	25.9	210	ug/Kg
51-28-5	2,4-Dinitrophenol	280	U	280	400	ug/Kg
100-02-7	4-Nitrophenol	130	U	130	400	ug/Kg
132-64-9	Dibenzofuran	27.6	U	27.6	210	ug/Kg
121-14-2	2,4-Dinitrotoluene	61.0	U	61.0	210	ug/Kg
84-66-2	Diethylphthalate	34.5	U	34.5	210	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	32.5	U	32.5	210	ug/Kg
86-73-7	Fluorene	30.8	U	30.8	210	ug/Kg
100-01-6	4-Nitroaniline	78.2	U	78.2	210	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	130	U	130	400	ug/Kg
86-30-6	n-Nitrosodiphenylamine	40.1	U	40.1	210	ug/Kg
101-55-3	4-Bromophenyl-phenylether	33.9	U	33.9	210	ug/Kg
118-74-1	Hexachlorobenzene	30.8	U	30.8	210	ug/Kg
1912-24-9	Atrazine	41.4	U	41.4	210	ug/Kg
87-86-5	Pentachlorophenol	62.5	U	62.5	400	ug/Kg
85-01-8	Phenanthrene	25.5	U	25.5	210	ug/Kg
120-12-7	Anthracene	40.6	U	40.6	210	ug/Kg
86-74-8	Carbazole	38.0	U	38.0	210	ug/Kg
84-74-2	Di-n-butylphthalate	58.3	U	58.3	210	ug/Kg
206-44-0	Fluoranthene	36.5	U	36.5	210	ug/Kg
129-00-0	Pyrene	43.8	U	43.8	210	ug/Kg
85-68-7	Butylbenzylphthalate	86.9	U	86.9	210	ug/Kg
91-94-1	3,3-Dichlorobenzidine	44.7	U	44.7	400	ug/Kg
56-55-3	Benzo(a)anthracene	28.0	U	28.0	210	ug/Kg
218-01-9	Chrysene	24.2	U	24.2	210	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	100	J	72.1	210	ug/Kg
117-84-0	Di-n-octyl phthalate	110	U	110	400	ug/Kg
205-99-2	Benzo(b)fluoranthene	23.1	U	23.1	210	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	05/15/25
Project:	South River WM Replacement	Date Received:	05/16/25
Client Sample ID:	TP-38	SDG No.:	Q2074
Lab Sample ID:	Q2074-05	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	81.9
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
BF142505.D	1	05/20/25 09:45	05/22/25 12:42	PB168083

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	27.3	U	27.3	210	ug/Kg
50-32-8	Benzo(a)pyrene	35.9	U	35.9	210	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	35.4	U	35.4	210	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	33.4	U	33.4	210	ug/Kg
191-24-2	Benzo(g,h,i)perylene	31.3	U	31.3	210	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	31.2	U	31.2	210	ug/Kg
123-91-1	1,4-Dioxane	55.0	U	55.0	210	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	33.4	U	33.4	210	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	86.7		18 - 112	58%	SPK: 150
13127-88-3	Phenol-d6	87.8		15 - 107	59%	SPK: 150
4165-60-0	Nitrobenzene-d5	54.1		18 - 107	54%	SPK: 100
321-60-8	2-Fluorobiphenyl	47.4		20 - 109	47%	SPK: 100
118-79-6	2,4,6-Tribromophenol	90.3		10 - 116	60%	SPK: 150
1718-51-0	Terphenyl-d14	44.8		10 - 105	45%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	105000	6.898			
1146-65-2	Naphthalene-d8	393000	8.181			
15067-26-2	Acenaphthene-d10	211000	9.934			
1517-22-2	Phenanthrene-d10	363000	11.422			
1719-03-5	Chrysene-d12	195000	14.063			
1520-96-3	Perylene-d12	215000	15.557			
TENTATIVE IDENTIFIED COMPOUNDS						
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	300	AB		5.12	ug/Kg
000119-61-9	Benzophenone	250	J		10.6	ug/Kg
000057-10-3	n-Hexadecanoic acid	360	J		11.9	ug/Kg
959261-23-5	Heptafluorobutyric acid, pentadecy	120	J		13.9	ug/Kg
000630-01-3	Hexacosane	86.9	J		14.3	ug/Kg
000630-04-6	Hentriacontane	86.9	J		14.8	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	05/15/25
Project:	South River WM Replacement	Date Received:	05/16/25
Client Sample ID:	TP-38	SDG No.:	Q2074
Lab Sample ID:	Q2074-05	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	81.9
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
BF142505.D	1	05/20/25 09:45	05/22/25 12:42	PB168083

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

Report of Analysis

Client:	CDM Smith	Date Collected:	05/15/25
Project:	South River WM Replacement	Date Received:	05/16/25
Client Sample ID:	TP-19	SDG No.:	Q2074
Lab Sample ID:	Q2074-06	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	85.9
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
BF142484.D	1	05/20/25 09:45	05/21/25 13:40	PB168083

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	180	U	180	380	ug/Kg
108-95-2	Phenol	25.7	U	25.7	200	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	28.2	U	28.2	200	ug/Kg
95-57-8	2-Chlorophenol	28.3	U	28.3	200	ug/Kg
95-48-7	2-Methylphenol	34.7	U	34.7	200	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	43.6	U	43.6	200	ug/Kg
98-86-2	Acetophenone	34.3	U	34.3	200	ug/Kg
65794-96-9	3+4-Methylphenols	47.8	U	47.8	380	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	55.1	U	55.1	92.9	ug/Kg
67-72-1	Hexachloroethane	20.4	U	20.4	200	ug/Kg
98-95-3	Nitrobenzene	21.3	U	21.3	200	ug/Kg
78-59-1	Isophorone	38.1	U	38.1	200	ug/Kg
88-75-5	2-Nitrophenol	67.6	U	67.6	200	ug/Kg
105-67-9	2,4-Dimethylphenol	75.3	U	75.3	200	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	35.8	U	35.8	200	ug/Kg
120-83-2	2,4-Dichlorophenol	32.9	U	32.9	200	ug/Kg
91-20-3	Naphthalene	26.4	U	26.4	200	ug/Kg
106-47-8	4-Chloroaniline	41.1	U	41.1	200	ug/Kg
87-68-3	Hexachlorobutadiene	29.4	U	29.4	200	ug/Kg
105-60-2	Caprolactam	60.5	U	60.5	380	ug/Kg
59-50-7	4-Chloro-3-methylphenol	33.3	U	33.3	200	ug/Kg
91-57-6	2-Methylnaphthalene	29.7	U	29.7	200	ug/Kg
77-47-4	Hexachlorocyclopentadiene	130	U	130	380	ug/Kg
88-06-2	2,4,6-Trichlorophenol	23.0	U	23.0	200	ug/Kg
95-95-4	2,4,5-Trichlorophenol	33.8	U	33.8	200	ug/Kg
92-52-4	1,1-Biphenyl	25.3	U	25.3	200	ug/Kg
91-58-7	2-Chloronaphthalene	26.1	U	26.1	200	ug/Kg
88-74-4	2-Nitroaniline	55.9	U	55.9	200	ug/Kg
131-11-3	Dimethylphthalate	31.5	U	31.5	200	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	05/15/25
Project:	South River WM Replacement	Date Received:	05/16/25
Client Sample ID:	TP-19	SDG No.:	Q2074
Lab Sample ID:	Q2074-06	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	85.9
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
BF142484.D	1	05/20/25 09:45	05/21/25 13:40	PB168083

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	33.6	U	33.6	200	ug/Kg
606-20-2	2,6-Dinitrotoluene	39.0	U	39.0	200	ug/Kg
99-09-2	3-Nitroaniline	53.4	U	53.4	200	ug/Kg
83-32-9	Acenaphthene	24.7	U	24.7	200	ug/Kg
51-28-5	2,4-Dinitrophenol	270	U	270	380	ug/Kg
100-02-7	4-Nitrophenol	120	U	120	380	ug/Kg
132-64-9	Dibenzofuran	26.4	U	26.4	200	ug/Kg
121-14-2	2,4-Dinitrotoluene	58.2	U	58.2	200	ug/Kg
84-66-2	Diethylphthalate	32.9	U	32.9	200	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	31.0	U	31.0	200	ug/Kg
86-73-7	Fluorene	29.4	U	29.4	200	ug/Kg
100-01-6	4-Nitroaniline	74.6	U	74.6	200	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	120	U	120	380	ug/Kg
86-30-6	n-Nitrosodiphenylamine	38.2	U	38.2	200	ug/Kg
101-55-3	4-Bromophenyl-phenylether	32.3	U	32.3	200	ug/Kg
118-74-1	Hexachlorobenzene	29.4	U	29.4	200	ug/Kg
1912-24-9	Atrazine	39.5	U	39.5	200	ug/Kg
87-86-5	Pentachlorophenol	59.6	U	59.6	380	ug/Kg
85-01-8	Phenanthrene	24.3	U	24.3	200	ug/Kg
120-12-7	Anthracene	38.7	U	38.7	200	ug/Kg
86-74-8	Carbazole	36.2	U	36.2	200	ug/Kg
84-74-2	Di-n-butylphthalate	55.7	U	55.7	200	ug/Kg
206-44-0	Fluoranthene	34.9	U	34.9	200	ug/Kg
129-00-0	Pyrene	41.8	U	41.8	200	ug/Kg
85-68-7	Butylbenzylphthalate	83.0	U	83.0	200	ug/Kg
91-94-1	3,3-Dichlorobenzidine	42.6	U	42.6	380	ug/Kg
56-55-3	Benzo(a)anthracene	26.7	U	26.7	200	ug/Kg
218-01-9	Chrysene	23.1	U	23.1	200	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	68.8	U	68.8	200	ug/Kg
117-84-0	Di-n-octyl phthalate	100	U	100	380	ug/Kg
205-99-2	Benzo(b)fluoranthene	22.1	U	22.1	200	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	05/15/25
Project:	South River WM Replacement	Date Received:	05/16/25
Client Sample ID:	TP-19	SDG No.:	Q2074
Lab Sample ID:	Q2074-06	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	85.9
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
BF142484.D	1	05/20/25 09:45	05/21/25 13:40	PB168083

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	26.0	U	26.0	200	ug/Kg
50-32-8	Benzo(a)pyrene	34.3	U	34.3	200	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	33.8	U	33.8	200	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	31.8	U	31.8	200	ug/Kg
191-24-2	Benzo(g,h,i)perylene	29.9	U	29.9	200	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	29.7	U	29.7	200	ug/Kg
123-91-1	1,4-Dioxane	52.5	U	52.5	200	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	31.8	U	31.8	200	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	79.4		18 - 112	53%	SPK: 150
13127-88-3	Phenol-d6	81.2		15 - 107	54%	SPK: 150
4165-60-0	Nitrobenzene-d5	47.0		18 - 107	47%	SPK: 100
321-60-8	2-Fluorobiphenyl	45.8		20 - 109	46%	SPK: 100
118-79-6	2,4,6-Tribromophenol	83.0		10 - 116	55%	SPK: 150
1718-51-0	Terphenyl-d14	35.3		10 - 105	35%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	68500	6.898			
1146-65-2	Naphthalene-d8	265000	8.181			
15067-26-2	Acenaphthene-d10	144000	9.933			
1517-22-2	Phenanthrene-d10	270000	11.421			
1719-03-5	Chrysene-d12	248000	14.068			
1520-96-3	Perylene-d12	223000	15.557			
TENTATIVE IDENTIFIED COMPOUNDS						
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	240	AB		5.09	ug/Kg
000119-61-9	Benzophenone	190	J		10.7	ug/Kg
000057-10-3	n-Hexadecanoic acid	180	J		11.9	ug/Kg
018835-33-1	1-Hexacosene	140	J		13.9	ug/Kg

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Project:	South River WM Replacement	Date Received:	05/16/25
Client Sample ID:	TP-19	SDG No.:	Q2074
Lab Sample ID:	Q2074-06	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	85.9
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
BF142484.D	1	05/20/25 09:45	05/21/25 13:40	PB168083

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:	05/15/25
Project:	South River WM Replacement	Date Received:	05/16/25
Client Sample ID:	TP-40	SDG No.:	Q2074
Lab Sample ID:	Q2074-07	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	89.2
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
BF142515.D	1	05/20/25 09:45	05/22/25 17:32	PB168083

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	170	U	170	370	ug/Kg
108-95-2	Phenol	24.8	U	24.8	190	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	27.2	U	27.2	190	ug/Kg
95-57-8	2-Chlorophenol	27.3	U	27.3	190	ug/Kg
95-48-7	2-Methylphenol	33.5	U	33.5	190	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	42.0	U	42.0	190	ug/Kg
98-86-2	Acetophenone	33.0	U	33.0	190	ug/Kg
65794-96-9	3+4-Methylphenols	46.0	U	46.0	370	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	53.1	U	53.1	89.6	ug/Kg
67-72-1	Hexachloroethane	19.7	U	19.7	190	ug/Kg
98-95-3	Nitrobenzene	20.5	U	20.5	190	ug/Kg
78-59-1	Isophorone	36.7	U	36.7	190	ug/Kg
88-75-5	2-Nitrophenol	65.2	U	65.2	190	ug/Kg
105-67-9	2,4-Dimethylphenol	72.6	U	72.6	190	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	34.5	U	34.5	190	ug/Kg
120-83-2	2,4-Dichlorophenol	31.7	U	31.7	190	ug/Kg
91-20-3	Naphthalene	25.4	U	25.4	190	ug/Kg
106-47-8	4-Chloroaniline	39.6	U	39.6	190	ug/Kg
87-68-3	Hexachlorobutadiene	28.3	U	28.3	190	ug/Kg
105-60-2	Caprolactam	58.3	U	58.3	370	ug/Kg
59-50-7	4-Chloro-3-methylphenol	32.1	U	32.1	190	ug/Kg
91-57-6	2-Methylnaphthalene	28.7	U	28.7	190	ug/Kg
77-47-4	Hexachlorocyclopentadiene	130	U	130	370	ug/Kg
88-06-2	2,4,6-Trichlorophenol	22.2	U	22.2	190	ug/Kg
95-95-4	2,4,5-Trichlorophenol	32.6	U	32.6	190	ug/Kg
92-52-4	1,1-Biphenyl	24.4	U	24.4	190	ug/Kg
91-58-7	2-Chloronaphthalene	25.2	U	25.2	190	ug/Kg
88-74-4	2-Nitroaniline	53.9	U	53.9	190	ug/Kg
131-11-3	Dimethylphthalate	30.4	U	30.4	190	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	05/15/25
Project:	South River WM Replacement	Date Received:	05/16/25
Client Sample ID:	TP-40	SDG No.:	Q2074
Lab Sample ID:	Q2074-07	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	89.2
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
BF142515.D	1	05/20/25 09:45	05/22/25 17:32	PB168083

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	32.4	U	32.4	190	ug/Kg
606-20-2	2,6-Dinitrotoluene	37.6	U	37.6	190	ug/Kg
99-09-2	3-Nitroaniline	51.5	U	51.5	190	ug/Kg
83-32-9	Acenaphthene	23.9	U	23.9	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	25.4	U	25.4	190	ug/Kg
121-14-2	2,4-Dinitrotoluene	56.1	U	56.1	190	ug/Kg
84-66-2	Diethylphthalate	31.7	U	31.7	190	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	29.9	U	29.9	190	ug/Kg
86-73-7	Fluorene	28.3	U	28.3	190	ug/Kg
100-01-6	4-Nitroaniline	71.9	U	71.9	190	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	120	U	120	370	ug/Kg
86-30-6	n-Nitrosodiphenylamine	36.8	U	36.8	190	ug/Kg
101-55-3	4-Bromophenyl-phenylether	31.1	U	31.1	190	ug/Kg
118-74-1	Hexachlorobenzene	28.3	U	28.3	190	ug/Kg
1912-24-9	Atrazine	38.1	U	38.1	190	ug/Kg
87-86-5	Pentachlorophenol	57.5	U	57.5	370	ug/Kg
85-01-8	Phenanthrene	140	J	23.4	190	ug/Kg
120-12-7	Anthracene	37.3	U	37.3	190	ug/Kg
86-74-8	Carbazole	34.9	U	34.9	190	ug/Kg
84-74-2	Di-n-butylphthalate	53.6	U	53.6	190	ug/Kg
206-44-0	Fluoranthene	440		33.6	190	ug/Kg
129-00-0	Pyrene	300		40.3	190	ug/Kg
85-68-7	Butylbenzylphthalate	80.0	U	80.0	190	ug/Kg
91-94-1	3,3-Dichlorobenzidine	41.1	U	41.1	370	ug/Kg
56-55-3	Benzo(a)anthracene	180	J	25.8	190	ug/Kg
218-01-9	Chrysene	200		22.3	190	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	66.3	U	66.3	190	ug/Kg
117-84-0	Di-n-octyl phthalate	97.2	U	97.2	370	ug/Kg
205-99-2	Benzo(b)fluoranthene	320		21.3	190	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	05/15/25
Project:	South River WM Replacement	Date Received:	05/16/25
Client Sample ID:	TP-40	SDG No.:	Q2074
Lab Sample ID:	Q2074-07	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	89.2
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
BF142515.D	1	05/20/25 09:45	05/22/25 17:32	PB168083

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	79.1	J	25.1	190	ug/Kg
50-32-8	Benzo(a)pyrene	200		33.0	190	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	86.9	J	32.6	190	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	30.7	U	30.7	190	ug/Kg
191-24-2	Benzo(g,h,i)perylene	110	J	28.8	190	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	28.7	U	28.7	190	ug/Kg
123-91-1	1,4-Dioxane	50.6	U	50.6	190	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	30.7	U	30.7	190	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	66.5		18 - 112	44%	SPK: 150
13127-88-3	Phenol-d6	67.0		15 - 107	45%	SPK: 150
4165-60-0	Nitrobenzene-d5	41.0		18 - 107	41%	SPK: 100
321-60-8	2-Fluorobiphenyl	39.6		20 - 109	40%	SPK: 100
118-79-6	2,4,6-Tribromophenol	61.3		10 - 116	41%	SPK: 150
1718-51-0	Terphenyl-d14	33.1		10 - 105	33%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	105000	6.898			
1146-65-2	Naphthalene-d8	356000	8.181			
15067-26-2	Acenaphthene-d10	156000	9.934			
1517-22-2	Phenanthrene-d10	249000	11.422			
1719-03-5	Chrysene-d12	190000	14.063			
1520-96-3	Perylene-d12	152000	15.557			
TENTATIVE IDENTIFIED COMPOUNDS						
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	210	AB		5.11	ug/Kg
000119-61-9	Benzophenone	150	J		10.6	ug/Kg
000613-12-7	Anthracene, 2-methyl-	160	J		11.9	ug/Kg
003452-07-1	1-Eicosene	80.6	J		13.9	ug/Kg
000192-97-2	Benzo[e]pyrene	140	J		15.4	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	05/15/25
Project:	South River WM Replacement	Date Received:	05/16/25
Client Sample ID:	TP-40	SDG No.:	Q2074
Lab Sample ID:	Q2074-07	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	89.2
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
BF142515.D	1	05/20/25 09:45	05/22/25 17:32	PB168083

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

Alliance TECHNICAL GROUP
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Report of Analysis

Client:	CDM Smith	Date Collected:	05/16/25
Project:	South River WM Replacement	Date Received:	05/16/25
Client Sample ID:	TP-18	SDG No.:	Q2074
Lab Sample ID:	Q2074-08	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	78
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
BF142506.D	1	05/20/25 09:45	05/22/25 13:11	PB168083

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	28.3	U	28.3	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	38.3	U	38.3	220	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	48.0	U	48.0	220	ug/Kg
98-86-2	Acetophenone	37.8	U	37.8	220	ug/Kg
65794-96-9	3+4-Methylphenols	52.6	U	52.6	420	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	60.7	U	60.7	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	42.0	U	42.0	220	ug/Kg
88-75-5	2-Nitrophenol	74.5	U	74.5	220	ug/Kg
105-67-9	2,4-Dimethylphenol	82.9	U	82.9	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	29.1	U	29.1	220	ug/Kg
106-47-8	4-Chloroaniline	45.3	U	45.3	220	ug/Kg
87-68-3	Hexachlorobutadiene	32.4	U	32.4	220	ug/Kg
105-60-2	Caprolactam	66.7	U	66.7	420	ug/Kg
59-50-7	4-Chloro-3-methylphenol	36.7	U	36.7	220	ug/Kg
91-57-6	2-Methylnaphthalene	32.8	U	32.8	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	61.6	U	61.6	220	ug/Kg
131-11-3	Dimethylphthalate	34.7	U	34.7	220	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	05/16/25
Project:	South River WM Replacement	Date Received:	05/16/25
Client Sample ID:	TP-18	SDG No.:	Q2074
Lab Sample ID:	Q2074-08	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	78
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
BF142506.D	1	05/20/25 09:45	05/22/25 13:11	PB168083

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	37.0	U	37.0	220	ug/Kg
606-20-2	2,6-Dinitrotoluene	43.0	U	43.0	220	ug/Kg
99-09-2	3-Nitroaniline	58.9	U	58.9	220	ug/Kg
83-32-9	Acenaphthene	27.3	U	27.3	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	29.1	U	29.1	220	ug/Kg
121-14-2	2,4-Dinitrotoluene	64.1	U	64.1	220	ug/Kg
84-66-2	Diethylphthalate	36.2	U	36.2	220	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	34.2	U	34.2	220	ug/Kg
86-73-7	Fluorene	32.4	U	32.4	220	ug/Kg
100-01-6	4-Nitroaniline	82.2	U	82.2	220	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	130	U	130	420	ug/Kg
86-30-6	n-Nitrosodiphenylamine	42.1	U	42.1	220	ug/Kg
101-55-3	4-Bromophenyl-phenylether	35.6	U	35.6	220	ug/Kg
118-74-1	Hexachlorobenzene	32.4	U	32.4	220	ug/Kg
1912-24-9	Atrazine	43.5	U	43.5	220	ug/Kg
87-86-5	Pentachlorophenol	65.7	U	65.7	420	ug/Kg
85-01-8	Phenanthrene	26.8	U	26.8	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	61.3	U	61.3	220	ug/Kg
206-44-0	Fluoranthene	38.4	U	38.4	220	ug/Kg
129-00-0	Pyrene	46.1	U	46.1	220	ug/Kg
85-68-7	Butylbenzylphthalate	91.4	U	91.4	220	ug/Kg
91-94-1	3,3-Dichlorobenzidine	47.0	U	47.0	420	ug/Kg
56-55-3	Benzo(a)anthracene	29.4	U	29.4	220	ug/Kg
218-01-9	Chrysene	25.5	U	25.5	220	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	75.8	U	75.8	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:	05/16/25
Project:	South River WM Replacement	Date Received:	05/16/25
Client Sample ID:	TP-18	SDG No.:	Q2074
Lab Sample ID:	Q2074-08	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	78
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
BF142506.D	1	05/20/25 09:45	05/22/25 13:11	PB168083

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	28.7	U	28.7	220	ug/Kg
50-32-8	Benzo(a)pyrene	37.8	U	37.8	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	35.1	U	35.1	220	ug/Kg
191-24-2	Benzo(g,h,i)perylene	32.9	U	32.9	220	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	32.8	U	32.8	220	ug/Kg
123-91-1	1,4-Dioxane	57.9	U	57.9	220	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	35.1	U	35.1	220	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	77.9		18 - 112	52%	SPK: 150
13127-88-3	Phenol-d6	81.2		15 - 107	54%	SPK: 150
4165-60-0	Nitrobenzene-d5	45.9		18 - 107	46%	SPK: 100
321-60-8	2-Fluorobiphenyl	44.9		20 - 109	45%	SPK: 100
118-79-6	2,4,6-Tribromophenol	83.7		10 - 116	56%	SPK: 150
1718-51-0	Terphenyl-d14	50.8		10 - 105	51%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	115000	6.898			
1146-65-2	Naphthalene-d8	439000	8.181			
15067-26-2	Acenaphthene-d10	235000	9.934			
1517-22-2	Phenanthrene-d10	407000	11.422			
1719-03-5	Chrysene-d12	208000	14.063			
1520-96-3	Perylene-d12	225000	15.557			
TENTATIVE IDENTIFIED COMPOUNDS						
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	270	AB		5.12	ug/Kg
000119-61-9	Benzophenone	200	J		10.6	ug/Kg
000057-10-3	n-Hexadecanoic acid	180	J		11.9	ug/Kg
006222-03-3	Trifluoroacetoxy hexadecane	150	J		13.9	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	05/16/25
Project:	South River WM Replacement	Date Received:	05/16/25
Client Sample ID:	TP-18	SDG No.:	Q2074
Lab Sample ID:	Q2074-08	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	78
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
BF142506.D	1	05/20/25 09:45	05/22/25 13:11	PB168083

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

QC SUMMARY

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

SW-846

SDG No.: Q2074

Client: CDM Smith

Analytical Method: 8270E

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
PB168083BL	PB168083BL	2-Fluorophenol	150	114	76		18	112
		Phenol-d6	150	111	74		15	107
		Nitrobenzene-d5	100	67.4	67		18	107
		2-Fluorobiphenyl	100	69.4	69		20	109
		2,4,6-Tribromophenol	150	128	85		10	116
		Terphenyl-d14	100	62.4	62		10	105
PB168083BS	PB168083BS	2-Fluorophenol	150	107	71		18	112
		Phenol-d6	150	115	76		15	107
		Nitrobenzene-d5	100	69.4	69		18	107
		2-Fluorobiphenyl	100	66.0	66		20	109
		2,4,6-Tribromophenol	150	117	78		10	116
		Terphenyl-d14	100	81.6	82		10	105
Q2074-01	TP-12	2-Fluorophenol	150	82.6	55		18	112
		Phenol-d6	150	79.8	53		15	107
		Nitrobenzene-d5	100	52.4	52		18	107
		2-Fluorobiphenyl	100	48.9	49		20	109
		2,4,6-Tribromophenol	150	74.1	49		10	116
		Terphenyl-d14	100	37.7	38		10	105
Q2074-02	TP-7	2-Fluorophenol	150	86.5	58		18	112
		Phenol-d6	150	89.6	60		15	107
		Nitrobenzene-d5	100	53.5	54		18	107
		2-Fluorobiphenyl	100	50.0	50		20	109
		2,4,6-Tribromophenol	150	92.4	62		10	116
		Terphenyl-d14	100	38.1	38		10	105
Q2074-03	TP-15	2-Fluorophenol	150	70.2	47		18	112
		Phenol-d6	150	72.2	48		15	107
		Nitrobenzene-d5	100	43.7	44		18	107
		2-Fluorobiphenyl	100	42.0	42		20	109
		2,4,6-Tribromophenol	150	69.0	46		10	116
		Terphenyl-d14	100	40.8	41		10	105
Q2074-04	TP-20	2-Fluorophenol	150	86.5	58		18	112
		Phenol-d6	150	87.7	58		15	107
		Nitrobenzene-d5	100	50.7	51		18	107
		2-Fluorobiphenyl	100	46.6	47		20	109
		2,4,6-Tribromophenol	150	85.8	57		10	116
		Terphenyl-d14	100	40.0	40		10	105
Q2074-05	TP-38	2-Fluorophenol	150	86.7	58		18	112
		Phenol-d6	150	87.8	59		15	107
		Nitrobenzene-d5	100	54.1	54		18	107
		2-Fluorobiphenyl	100	47.4	47		20	109
		2,4,6-Tribromophenol	150	90.3	60		10	116
		Terphenyl-d14	100	44.8	45		10	105
Q2074-06	TP-19	2-Fluorophenol	150	79.4	53		18	112
		Phenol-d6	150	81.2	54		15	107
		Nitrobenzene-d5	100	47.0	47		18	107
		2-Fluorobiphenyl	100	45.8	46		20	109
		2,4,6-Tribromophenol	150	83.0	55		10	116
		Terphenyl-d14	100	35.3	35		10	105
Q2074-07	TP-40	2-Fluorophenol	150	66.5	44		18	112
		Phenol-d6	150	67.0	45		15	107
		Nitrobenzene-d5	100	41.0	41		18	107

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Surrogate Summary

SW-846

SDG No.: Q2074

Client: CDM Smith

Analytical Method: 8270E

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
Q2074-07	TP-40	2-Fluorobiphenyl	100	39.6	40		20	109
		2,4,6-Tribromophenol	150	61.3	41		10	116
		Terphenyl-d14	100	33.1	33		10	105
Q2074-08	TP-18	2-Fluorophenol	150	77.9	52		18	112
		Phenol-d6	150	81.2	54		15	107
		Nitrobenzene-d5	100	45.9	46		18	107
		2-Fluorobiphenyl	100	44.9	45		20	109
		2,4,6-Tribromophenol	150	83.7	56		10	116
		Terphenyl-d14	100	50.8	51		10	105
Q2075-04MS	SS-11MS	2-Fluorophenol	150	97.6	65		18	112
		Phenol-d6	150	97.8	65		15	107
		Nitrobenzene-d5	100	60.4	60		18	107
		2-Fluorobiphenyl	100	51.6	52		20	109
		2,4,6-Tribromophenol	150	113	76		10	116
		Terphenyl-d14	100	41.5	41		10	105
Q2075-05MSD	SS-11MSD	2-Fluorophenol	150	95.8	64		18	112
		Phenol-d6	150	95.6	64		15	107
		Nitrobenzene-d5	100	59.6	60		18	107
		2-Fluorobiphenyl	100	54.4	54		20	109
		2,4,6-Tribromophenol	150	106	71		10	116
		Terphenyl-d14	100	40.2	40		10	105

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q2074

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: Q2075-04MS		**Client Sample ID: SS-11MS**						**DataFile: BF142487.D**			
Benzaldehyde	1900	0	1500	ug/Kg	79				10	86	
Phenol	1900	0	1600	ug/Kg	84				67	126	
bis(2-Chloroethyl)ether	1900	0	1500	ug/Kg	79				54	125	
2-Chlorophenol	1900	0	1600	ug/Kg	84				79	107	
2-Methylphenol	1900	0	1500	ug/Kg	79				66	122	
2,2-oxybis(1-Chloropropane)	1900	0	1500	ug/Kg	79				65	110	
Acetophenone	1900	0	1700	ug/Kg	89				75	111	
3+4-Methylphenols	1900	0	1500	ug/Kg	79				66	104	
N-Nitroso-di-n-propylamine	1900	0	1500	ug/Kg	79				59	119	
Hexachloroethane	1900	0	1500	ug/Kg	79				65	117	
Nitrobenzene	1900	0	1600	ug/Kg	84				70	119	
Isophorone	1900	0	1500	ug/Kg	79				76	122	
2-Nitrophenol	1900	0	1600	ug/Kg	84				54	145	
2,4-Dimethylphenol	1900	0	1600	ug/Kg	84				44	135	
bis(2-Chloroethoxy)methane	1900	0	1500	ug/Kg	79				68	112	
2,4-Dichlorophenol	1900	0	1600	ug/Kg	84				72	118	
Naphthalene	1900	0	1600	ug/Kg	84				72	110	
4-Chloroaniline	1900	0	390	ug/Kg	21				10	91	
Hexachlorobutadiene	1900	0	1600	ug/Kg	84				66	114	
Caprolactam	1900	0	2100	ug/Kg	111				51	134	
4-Chloro-3-methylphenol	1900	0	1600	ug/Kg	84				57	132	
2-Methylnaphthalene	1900	0	1600	ug/Kg	84				59	123	
Hexachlorocyclopentadiene	3800	0	2800	ug/Kg	74				10	175	
2,4,6-Trichlorophenol	1900	0	1500	ug/Kg	79				72	117	
2,4,5-Trichlorophenol	1900	0	1600	ug/Kg	84				72	117	
1,1-Biphenyl	1900	0	1600	ug/Kg	84				75	113	
2-Chloronaphthalene	1900	0	1500	ug/Kg	79				67	118	
2-Nitroaniline	1900	0	1700	ug/Kg	89				69	127	
Dimethylphthalate	1900	0	1600	ug/Kg	84				70	113	
Acenaphthylene	1900	0	1600	ug/Kg	84				79	118	
2,6-Dinitrotoluene	1900	0	1700	ug/Kg	89				70	125	
3-Nitroaniline	1900	0	1100	ug/Kg	58				30	99	
Acenaphthene	1900	0	1800	ug/Kg	95				70	121	
2,4-Dinitrophenol	3800	0	4100	ug/Kg	108				10	155	
4-Nitrophenol	3800	0	4300	ug/Kg	113				45	133	
Dibenzofuran	1900	0	1600	ug/Kg	84				72	110	
2,4-Dinitrotoluene	1900	0	1900	ug/Kg	100				55	128	
Diethylphthalate	1900	0	1700	ug/Kg	89				70	112	
4-Chlorophenyl-phenylether	1900	0	1600	ug/Kg	84				71	108	
Fluorene	1900	0	1700	ug/Kg	89				68	116	
4-Nitroaniline	1900	0	2100	ug/Kg	111				55	120	
4,6-Dinitro-2-methylphenol	1900	0	1800	ug/Kg	95				10	160	
N-Nitrosodiphenylamine	1900	0	1500	ug/Kg	79				73	118	
4-Bromophenyl-phenylether	1900	0	1400	ug/Kg	74				65	121	
Hexachlorobenzene	1900	0	1500	ug/Kg	79				67	118	
Atrazine	1900	0	2000	ug/Kg	105				79	127	

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q2074

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	3800	0	3500	ug/Kg	92				47	128	
Phenanthrene	1900	0	1600	ug/Kg	84				52	128	
Anthracene	1900	0	1700	ug/Kg	89				62	124	
Carbazole	1900	0	1900	ug/Kg	100				59	119	
Di-n-butylphthalate	1900	0	2000	ug/Kg	105				69	118	
Fluoranthene	1900	120	2200	ug/Kg	109				44	125	
Pyrene	1900	0	1300	ug/Kg	68				26	142	
Butylbenzylphthalate	1900	0	1900	ug/Kg	100				64	126	
3,3-Dichlorobenzidine	1900	0	720	ug/Kg	38				33	116	
Benzo(a)anthracene	1900	0	1700	ug/Kg	89				71	114	
Chrysene	1900	0	1600	ug/Kg	84				57	121	
bis(2-Ethylhexyl)phthalate	1900	0	2100	ug/Kg	111				42	169	
Di-n-octyl phthalate	1900	0	1700	ug/Kg	89				23	175	
Benzo(b)fluoranthene	1900	0	1900	ug/Kg	100				67	121	
Benzo(k)fluoranthene	1900	0	1600	ug/Kg	84				57	134	
Benzo(a)pyrene	1900	0	1700	ug/Kg	89				70	142	
Indeno(1,2,3-cd)pyrene	1900	0	1400	ug/Kg	74				40	129	
Dibenz(a,h)anthracene	1900	0	1400	ug/Kg	74				43	123	
Benzo(g,h,i)perylene	1900	0	1300	ug/Kg	68				24	125	
1,2,4,5-Tetrachlorobenzene	1900	0	1500	ug/Kg	79				69	124	
1,4-Dioxane	1900	0	1400	ug/Kg	74				46	112	
2,3,4,6-Tetrachlorophenol	1900	0	1700	ug/Kg	89				69	112	

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q2074

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: Q2075-05MSD		**Client Sample ID: SS-11MSD**						**DataFile: BF142488.D**			
Benzaldehyde	1900	0	1400	ug/Kg	74		7		10	86	20
Phenol	1900	0	1500	ug/Kg	79		6		67	126	20
bis(2-Chloroethyl)ether	1900	0	1500	ug/Kg	79		0		54	125	20
2-Chlorophenol	1900	0	1500	ug/Kg	79		6		79	107	20
2-Methylphenol	1900	0	1500	ug/Kg	79		0		66	122	20
2,2-oxybis(1-Chloropropane)	1900	0	1500	ug/Kg	79		0		65	110	20
Acetophenone	1900	0	1600	ug/Kg	84		6		75	111	20
3+4-Methylphenols	1900	0	1500	ug/Kg	79		0		66	104	20
N-Nitroso-di-n-propylamine	1900	0	1400	ug/Kg	74		7		59	119	20
Hexachloroethane	1900	0	1500	ug/Kg	79		0		65	117	20
Nitrobenzene	1900	0	1600	ug/Kg	84		0		70	119	20
Isophorone	1900	0	1500	ug/Kg	79		0		76	122	20
2-Nitrophenol	1900	0	1600	ug/Kg	84		0		54	145	20
2,4-Dimethylphenol	1900	0	1500	ug/Kg	79		6		44	135	20
bis(2-Chloroethoxy)methane	1900	0	1500	ug/Kg	79		0		68	112	20
2,4-Dichlorophenol	1900	0	1500	ug/Kg	79		6		72	118	20
Naphthalene	1900	0	1600	ug/Kg	84		0		72	110	20
4-Chloroaniline	1900	0	390	ug/Kg	21		0		10	91	20
Hexachlorobutadiene	1900	0	1500	ug/Kg	79		6		66	114	20
Caprolactam	1900	0	1800	ug/Kg	95		16		51	134	20
4-Chloro-3-methylphenol	1900	0	1500	ug/Kg	79		6		57	132	20
2-Methylnaphthalene	1900	0	1500	ug/Kg	79		6		59	123	20
Hexachlorocyclopentadiene	3800	0	3100	ug/Kg	82		10		10	175	20
2,4,6-Trichlorophenol	1900	0	1600	ug/Kg	84		6		72	117	20
2,4,5-Trichlorophenol	1900	0	1600	ug/Kg	84		0		72	117	20
1,1-Biphenyl	1900	0	1600	ug/Kg	84		0		75	113	20
2-Chloronaphthalene	1900	0	1600	ug/Kg	84		6		67	118	20
2-Nitroaniline	1900	0	1700	ug/Kg	89		0		69	127	20
Dimethylphthalate	1900	0	1600	ug/Kg	84		0		70	113	20
Acenaphthylene	1900	0	1600	ug/Kg	84		0		79	118	20
2,6-Dinitrotoluene	1900	0	1600	ug/Kg	84		6		70	125	20
3-Nitroaniline	1900	0	1000	ug/Kg	53		9		30	99	20
Acenaphthene	1900	0	1800	ug/Kg	95		0		70	121	20
2,4-Dinitrophenol	3800	0	3700	ug/Kg	97		11		10	155	20
4-Nitrophenol	3800	0	4100	ug/Kg	108		5		45	133	20
Dibenzofuran	1900	0	1600	ug/Kg	84		0		72	110	20
2,4-Dinitrotoluene	1900	0	1800	ug/Kg	95		5		55	128	20
Diethylphthalate	1900	0	1600	ug/Kg	84		6		70	112	20
4-Chlorophenyl-phenylether	1900	0	1600	ug/Kg	84		0		71	108	20
Fluorene	1900	0	1600	ug/Kg	84		6		68	116	20
4-Nitroaniline	1900	0	1900	ug/Kg	100		10		55	120	20
4,6-Dinitro-2-methylphenol	1900	0	1700	ug/Kg	89		7		10	160	20
N-Nitrosodiphenylamine	1900	0	1500	ug/Kg	79		0		73	118	20
4-Bromophenyl-phenylether	1900	0	1400	ug/Kg	74		0		65	121	20
Hexachlorobenzene	1900	0	1500	ug/Kg	79		0		67	118	20
Atrazine	1900	0	1900	ug/Kg	100		5		79	127	20

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q2074

Client: CDM Smith

Analytical Method: SW8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Pentachlorophenol	3800	0	3400	ug/Kg	89		3		47	128	20
Phenanthrene	1900	0	1700	ug/Kg	89		6		52	128	20
Anthracene	1900	0	1700	ug/Kg	89		0		62	124	20
Carbazole	1900	0	1900	ug/Kg	100		0		59	119	20
Di-n-butylphthalate	1900	0	1900	ug/Kg	100		5		69	118	20
Fluoranthene	1900	120	2300	ug/Kg	115		5		44	125	20
Pyrene	1900	0	1300	ug/Kg	68		0		26	142	20
Butylbenzylphthalate	1900	0	1900	ug/Kg	100		0		64	126	20
3,3-Dichlorobenzidine	1900	0	770	ug/Kg	41		8		33	116	20
Benzo(a)anthracene	1900	0	1600	ug/Kg	84		6		71	114	20
Chrysene	1900	0	1600	ug/Kg	84		0		57	121	20
bis(2-Ethylhexyl)phthalate	1900	0	2000	ug/Kg	105		6		42	169	20
Di-n-octyl phthalate	1900	0	1600	ug/Kg	84		6		23	175	20
Benzo(b)fluoranthene	1900	0	1700	ug/Kg	89		12		67	121	20
Benzo(k)fluoranthene	1900	0	1700	ug/Kg	89		6		57	134	20
Benzo(a)pyrene	1900	0	1700	ug/Kg	89		0		70	142	20
Indeno(1,2,3-cd)pyrene	1900	0	1400	ug/Kg	74		0		40	129	20
Dibenz(a,h)anthracene	1900	0	1300	ug/Kg	68		8		43	123	20
Benzo(g,h,i)perylene	1900	0	1300	ug/Kg	68		0		24	125	20
1,2,4,5-Tetrachlorobenzene	1900	0	1600	ug/Kg	84		6		69	124	20
1,4-Dioxane	1900	0	1400	ug/Kg	74		0		46	112	20
2,3,4,6-Tetrachlorophenol	1900	0	1600	ug/Kg	84		6		69	112	20

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2074

Client: CDM Smith

Analytical Method: 8270E **DataFile:** BF142480.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB168083BS	Benzaldehyde	1700	1200	ug/Kg	71				10	133	
	Phenol	1700	1400	ug/Kg	82				62	112	
	bis(2-Chloroethyl)ether	1700	1400	ug/Kg	82				60	101	
	2-Chlorophenol	1700	1400	ug/Kg	82				65	112	
	2-Methylphenol	1700	1400	ug/Kg	82				61	108	
	2,2-oxybis(1-Chloropropane)	1700	1400	ug/Kg	82				51	100	
	Acetophenone	1700	1300	ug/Kg	76				66	98	
	3+4-Methylphenols	1700	1400	ug/Kg	82				58	111	
	N-Nitroso-di-n-propylamine	1700	1400	ug/Kg	82				63	95	
	Hexachloroethane	1700	1300	ug/Kg	76				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	1400	ug/Kg	82				46	141	
	bis(2-Chloroethoxy)methane	1700	1300	ug/Kg	76				66	97	
	2,4-Dichlorophenol	1700	1400	ug/Kg	82				62	107	
	Naphthalene	1700	1400	ug/Kg	82				62	100	
	4-Chloroaniline	1700	640	ug/Kg	38				16	100	
	Hexachlorobutadiene	1700	1300	ug/Kg	76				53	98	
	Caprolactam	1700	1500	ug/Kg	88				67	110	
	4-Chloro-3-methylphenol	1700	1400	ug/Kg	82				58	112	
	2-Methylnaphthalene	1700	1300	ug/Kg	76				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	1300	ug/Kg	76				57	103	
	2-Chloronaphthalene	1700	1300	ug/Kg	76				58	99	
	2-Nitroaniline	1700	1400	ug/Kg	82				66	101	
	Dimethylphthalate	1700	1400	ug/Kg	82				61	99	
	Acenaphthylene	1700	1300	ug/Kg	76				63	101	
	2,6-Dinitrotoluene	1700	1400	ug/Kg	82				61	104	
	3-Nitroaniline	1700	890	ug/Kg	52				28	100	
	Acenaphthene	1700	1500	ug/Kg	88				57	104	
	2,4-Dinitrophenol	3300	3300	ug/Kg	100				37	128	
	4-Nitrophenol	3300	3000	ug/Kg	91				48	119	
	Dibenzofuran	1700	1400	ug/Kg	82				63	99	
	2,4-Dinitrotoluene	1700	1500	ug/Kg	88				60	106	
	Diethylphthalate	1700	1500	ug/Kg	88				60	101	
	4-Chlorophenyl-phenylether	1700	1300	ug/Kg	76				58	98	
	Fluorene	1700	1300	ug/Kg	76				61	101	
	4-Nitroaniline	1700	1500	ug/Kg	88				64	103	
	4,6-Dinitro-2-methylphenol	1700	1700	ug/Kg	100				76	113	
	N-Nitrosodiphenylamine	1700	1300	ug/Kg	76				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.: Q2074

Client: CDM Smith

Analytical Method: 8270E **DataFile:** BF142480.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB168083BS	Hexachlorobenzene	1700	1400	ug/Kg	82				64	98	
	Atrazine	1700	1600	ug/Kg	94				47	152	
	Pentachlorophenol	3300	2800	ug/Kg	85				67	105	
	Phenanthrene	1700	1400	ug/Kg	82				59	103	
	Anthracene	1700	1300	ug/Kg	76				61	105	
	Carbazole	1700	1400	ug/Kg	82				61	99	
	Di-n-butylphthalate	1700	1500	ug/Kg	88				58	104	
	Fluoranthene	1700	1500	ug/Kg	88				57	107	
	Pyrene	1700	1600	ug/Kg	94				59	103	
	Butylbenzylphthalate	1700	1600	ug/Kg	94				55	103	
	3,3-Dichlorobenzidine	1700	810	ug/Kg	48				42	91	
	Benzo(a)anthracene	1700	1400	ug/Kg	82				60	102	
	Chrysene	1700	1400	ug/Kg	82				59	101	
	bis(2-Ethylhexyl)phthalate	1700	1500	ug/Kg	88				54	135	
	Di-n-octyl phthalate	1700	1400	ug/Kg	82				52	137	
	Benzo(b)fluoranthene	1700	1500	ug/Kg	88				62	109	
	Benzo(k)fluoranthene	1700	1400	ug/Kg	82				62	109	
	Benzo(a)pyrene	1700	1500	ug/Kg	88				63	103	
	Indeno(1,2,3-cd)pyrene	1700	1600	ug/Kg	94				63	101	
	Dibenz(a,h)anthracene	1700	1600	ug/Kg	94				61	112	
	Benzo(g,h,i)perylene	1700	1600	ug/Kg	94				70	108	
	1,2,4,5-Tetrachlorobenzene	1700	1300	ug/Kg	76				53	101	
	1,4-Dioxane	1700	1100	ug/Kg	65				50	96	
	2,3,4,6-Tetrachlorophenol	1700	1400	ug/Kg	82				59	108	

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4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB168083BL

Lab Name: CHEMTECH Contract: CAMP02

Lab Code: CHEM Case No.: Q2074 SAS No.: Q2074 SDG NO.: Q2074

Lab File ID: BF142479.D Lab Sample ID: PB168083BL

Instrument ID: BNA_F Date Extracted: 05/20/2025

Matrix: (soil/water) SOIL Date Analyzed: 05/21/2025

Level: (low/med) LOW Time Analyzed: 11:09

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB168083BS	PB168083BS	BF142480.D	05/21/2025
TP-7	Q2074-02	BF142481.D	05/21/2025
TP-20	Q2074-04	BF142482.D	05/21/2025
TP-19	Q2074-06	BF142484.D	05/21/2025
SS-11MS	Q2075-04MS	BF142487.D	05/21/2025
SS-11MSD	Q2075-05MSD	BF142488.D	05/21/2025
TP-38	Q2074-05	BF142505.D	05/22/2025
TP-18	Q2074-08	BF142506.D	05/22/2025
TP-12	Q2074-01	BF142513.D	05/22/2025
TP-15	Q2074-03	BF142514.D	05/22/2025
TP-40	Q2074-07	BF142515.D	05/22/2025

COMMENTS:

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: CAMP02

Lab Code: CHEM SAS No.: Q2074 SDG NO.: Q2074

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.: Q2074 SDG NO.: Q2074

Lab File ID: BF142477.D DFTPP Injection Date: 05/21/2025

Instrument ID: BNA_F DFTPP Injection Time: 09:41

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	40.0
68	Less than 2.0% of mass 69	0.6 (2) 1
69	Mass 69 relative abundance	34.9
70	Less than 2.0% of mass 69	0.2 (0.7) 1
127	10.0 - 80.0% of mass 198	46.9
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	29.1
365	Greater than 1% of mass 198	3.8
441	Present, but less than mass 443	18.3
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	19.4 (19.4) 2

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

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC040	SSTDCCC040	BF142478.D	05/21/2025	10:40
PB168083BL	PB168083BL	BF142479.D	05/21/2025	11:09
PB168083BS	PB168083BS	BF142480.D	05/21/2025	11:37
TP-7	Q2074-02	BF142481.D	05/21/2025	12:14
TP-20	Q2074-04	BF142482.D	05/21/2025	12:43
TP-19	Q2074-06	BF142484.D	05/21/2025	13:40
SS-11MS	Q2075-04MS	BF142487.D	05/21/2025	15:06
SS-11MSD	Q2075-05MSD	BF142488.D	05/21/2025	15:34

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: CAMP02

Lab Code: CHEM SAS No.: Q2074 SDG NO.: Q2074

Lab File ID: BF142501.D DFTPP Injection Date: 05/22/2025

Instrument ID: BNA_F DFTPP Injection Time: 10:43

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	37.5
68	Less than 2.0% of mass 69	0.5 (1.8) 1
69	Mass 69 relative abundance	33.6
70	Less than 2.0% of mass 69	0.2 (0.6) 1
127	10.0 - 80.0% of mass 198	46.8
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	30.3
365	Greater than 1% of mass 198	4.1
441	Present, but less than mass 443	20.4
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	18.7 (18.7) 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	BF142502.D	05/22/2025	11:11
TP-38	Q2074-05	BF142505.D	05/22/2025	12:42
TP-18	Q2074-08	BF142506.D	05/22/2025	13:11
TP-12	Q2074-01	BF142513.D	05/22/2025	16:34
TP-15	Q2074-03	BF142514.D	05/22/2025	17:03
TP-40	Q2074-07	BF142515.D	05/22/2025	17:32

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q2074 SAS No.: Q2074 SDG NO.: Q2074

EPA Sample No.: SSTDCCC040 Date Analyzed: 05/21/2025

Lab File ID: BF142478.D Time Analyzed: 10:40

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	124102	6.898	475212	8.19	258765	9.94
	UPPER LIMIT	248204	7.398	950424	8.686	517530	10.439
	LOWER LIMIT	62051	6.398	237606	7.686	129383	9.439
	EPA SAMPLE NO.						
01	PB168083BL	127003	6.90	492428	8.18	264579	9.94
02	PB168083BS	124824	6.90	495438	8.19	277044	9.94
03	TP-7	88091	6.90	330115	8.18	169428	9.94
04	TP-20	78241	6.90	292583	8.18	152289	9.93
05	TP-19	68503	6.90	265449	8.18	143783	9.93
06	SS-11MS	54835 *	6.90	200654 *	8.18	113830 *	9.94
07	SS-11MSD	53473 *	6.90	192497 *	8.18	95696 *	9.94

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

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

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8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q2074 SAS No.: Q2074 SDG NO.: Q2074

EPA Sample No.: SSTDCCC040 Date Analyzed: 05/21/2025

Lab File ID: BF142478.D Time Analyzed: 10:40

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	454448	11.427	231233	14.068	233183	15.562
	UPPER LIMIT	908896	11.927	462466	14.568	466366	16.062
	LOWER LIMIT	227224	10.927	115617	13.568	116592	15.062
	EPA SAMPLE NO.						
01	PB168083BL	511963	11.43	324877	14.07	234653	15.56
02	PB168083BS	468851	11.43	214548	14.07	229705	15.56
03	TP-7	293973	11.42	263519	14.06	238889	15.56
04	TP-20	263354	11.42	229725	14.06	197920	15.56
05	TP-19	270138	11.42	248278	14.07	222913	15.56
06	SS-11MS	229012	11.43	210926	14.07	176162	15.56
07	SS-11MSD	179294 *	11.43	174160	14.07	147670	15.56

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

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

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q2074 SAS No.: Q2074 SDG NO.: Q2074

EPA Sample No.: SSTDCCC040 Date Analyzed: 05/22/2025

Lab File ID: BF142502.D Time Analyzed: 11:11

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	96659	6.898	372701	8.19	197309	9.94
	UPPER LIMIT	193318	7.398	745402	8.687	394618	10.439
	LOWER LIMIT	48329.5	6.398	186351	7.687	98654.5	9.439
	EPA SAMPLE NO.						
01	TP-12	100796	6.90	331984	8.18	141613	9.93
02	TP-15	111156	6.90	403247	8.18	196334	9.93
03	TP-38	105231	6.90	393023	8.18	211306	9.93
04	TP-40	105109	6.90	356070	8.18	155651	9.93
05	TP-18	114998	6.90	438934	8.18	234734	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.: Q2074 SAS No.: Q2074 SDG NO.: Q2074

EPA Sample No.: SSTDCCC040 Date Analyzed: 05/22/2025

Lab File ID: BF142502.D Time Analyzed: 11:11

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	315055	11.428	157895	14.069	195527	15.557
	UPPER LIMIT	630110	11.928	315790	14.569	391054	16.057
	LOWER LIMIT	157528	10.928	78947.5	13.569	97763.5	15.057
	EPA SAMPLE NO.						
01	TP-12	236489	11.42	182992	14.06	150268	15.56
02	TP-15	331001	11.42	212263	14.06	172640	15.56
03	TP-38	363178	11.42	195335	14.06	215007	15.56
04	TP-40	248584	11.42	190159	14.06	152099	15.56
05	TP-18	406523	11.42	207782	14.06	225144	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:	PB168083BL	SDG No.:	Q2074
Lab Sample ID:	PB168083BL	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	100
Sample Wt/Vol:	30.01 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142479.D	1	05/20/25 09:45	05/21/25 11:09	PB168083

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	160	U	160	330	ug/Kg
108-95-2	Phenol	22.1	U	22.1	170	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	24.3	U	24.3	170	ug/Kg
95-57-8	2-Chlorophenol	24.4	U	24.4	170	ug/Kg
95-48-7	2-Methylphenol	29.9	U	29.9	170	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	37.5	U	37.5	170	ug/Kg
98-86-2	Acetophenone	29.5	U	29.5	170	ug/Kg
65794-96-9	3+4-Methylphenols	41.1	U	41.1	330	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	47.4	U	47.4	80.0	ug/Kg
67-72-1	Hexachloroethane	17.6	U	17.6	170	ug/Kg
98-95-3	Nitrobenzene	18.3	U	18.3	170	ug/Kg
78-59-1	Isophorone	32.8	U	32.8	170	ug/Kg
88-75-5	2-Nitrophenol	58.2	U	58.2	170	ug/Kg
105-67-9	2,4-Dimethylphenol	64.8	U	64.8	170	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	30.8	U	30.8	170	ug/Kg
120-83-2	2,4-Dichlorophenol	28.3	U	28.3	170	ug/Kg
91-20-3	Naphthalene	22.7	U	22.7	170	ug/Kg
106-47-8	4-Chloroaniline	35.4	U	35.4	170	ug/Kg
87-68-3	Hexachlorobutadiene	25.3	U	25.3	170	ug/Kg
105-60-2	Caprolactam	52.1	U	52.1	330	ug/Kg
59-50-7	4-Chloro-3-methylphenol	28.7	U	28.7	170	ug/Kg
91-57-6	2-Methylnaphthalene	25.6	U	25.6	170	ug/Kg
77-47-4	Hexachlorocyclopentadiene	120	U	120	330	ug/Kg
88-06-2	2,4,6-Trichlorophenol	19.8	U	19.8	170	ug/Kg
95-95-4	2,4,5-Trichlorophenol	29.1	U	29.1	170	ug/Kg
92-52-4	1,1-Biphenyl	21.8	U	21.8	170	ug/Kg
91-58-7	2-Chloronaphthalene	22.5	U	22.5	170	ug/Kg
88-74-4	2-Nitroaniline	48.1	U	48.1	170	ug/Kg
131-11-3	Dimethylphthalate	27.1	U	27.1	170	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	PB168083BL	SDG No.:	Q2074
Lab Sample ID:	PB168083BL	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	100
Sample Wt/Vol:	30.01 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142479.D	1	05/20/25 09:45	05/21/25 11:09	PB168083

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	28.9	U	28.9	170	ug/Kg
606-20-2	2,6-Dinitrotoluene	33.6	U	33.6	170	ug/Kg
99-09-2	3-Nitroaniline	46.0	U	46.0	170	ug/Kg
83-32-9	Acenaphthene	21.3	U	21.3	170	ug/Kg
51-28-5	2,4-Dinitrophenol	230	U	230	330	ug/Kg
100-02-7	4-Nitrophenol	110	U	110	330	ug/Kg
132-64-9	Dibenzofuran	22.7	U	22.7	170	ug/Kg
121-14-2	2,4-Dinitrotoluene	50.1	U	50.1	170	ug/Kg
84-66-2	Diethylphthalate	28.3	U	28.3	170	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	26.7	U	26.7	170	ug/Kg
86-73-7	Fluorene	25.3	U	25.3	170	ug/Kg
100-01-6	4-Nitroaniline	64.2	U	64.2	170	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	100	U	100	330	ug/Kg
86-30-6	n-Nitrosodiphenylamine	32.9	U	32.9	170	ug/Kg
101-55-3	4-Bromophenyl-phenylether	27.8	U	27.8	170	ug/Kg
118-74-1	Hexachlorobenzene	25.3	U	25.3	170	ug/Kg
1912-24-9	Atrazine	34.0	U	34.0	170	ug/Kg
87-86-5	Pentachlorophenol	51.3	U	51.3	330	ug/Kg
85-01-8	Phenanthrene	20.9	U	20.9	170	ug/Kg
120-12-7	Anthracene	33.3	U	33.3	170	ug/Kg
86-74-8	Carbazole	31.2	U	31.2	170	ug/Kg
84-74-2	Di-n-butylphthalate	47.9	U	47.9	170	ug/Kg
206-44-0	Fluoranthene	30.0	U	30.0	170	ug/Kg
129-00-0	Pyrene	36.0	U	36.0	170	ug/Kg
85-68-7	Butylbenzylphthalate	71.4	U	71.4	170	ug/Kg
91-94-1	3,3-Dichlorobenzidine	36.7	U	36.7	330	ug/Kg
56-55-3	Benzo(a)anthracene	23.0	U	23.0	170	ug/Kg
218-01-9	Chrysene	19.9	U	19.9	170	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	59.2	U	59.2	170	ug/Kg
117-84-0	Di-n-octyl phthalate	86.8	U	86.8	330	ug/Kg
205-99-2	Benzo(b)fluoranthene	19.0	U	19.0	170	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	PB168083BL	SDG No.:	Q2074
Lab Sample ID:	PB168083BL	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	100
Sample Wt/Vol:	30.01 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142479.D	1	05/20/25 09:45	05/21/25 11:09	PB168083

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	114		18 - 112	76%	SPK: 150
13127-88-3	Phenol-d6	111		15 - 107	74%	SPK: 150
4165-60-0	Nitrobenzene-d5	67.4		18 - 107	67%	SPK: 100
321-60-8	2-Fluorobiphenyl	69.4		20 - 109	69%	SPK: 100
118-79-6	2,4,6-Tribromophenol	128		10 - 116	85%	SPK: 150
1718-51-0	Terphenyl-d14	62.4		10 - 105	62%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	127000	6.898			
1146-65-2	Naphthalene-d8	492000	8.181			
15067-26-2	Acenaphthene-d10	265000	9.939			
1517-22-2	Phenanthrene-d10	512000	11.428			
1719-03-5	Chrysene-d12	325000	14.069			
1520-96-3	Perylene-d12	235000	15.563			
TENTATIVE IDENTIFIED COMPOUNDS						
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	290	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:	PB168083BL			SDG No.:	Q2074
Lab Sample ID:	PB168083BL			Matrix:	SOIL
Analytical Method:	8270E			% Solid:	100
Sample Wt/Vol:	30.01	Units:	g	Final Vol:	1000 uL
Soil Aliquot Vol:			uL	Test:	SVOC-TCL BNA -20
Extraction Type :			Decanted : N	Level :	LOW
Injection Volume :			GPC Factor : 1.0	GPC Cleanup : N	PH :
Prep Method :	SW3541				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142479.D	1	05/20/25 09:45	05/21/25 11:09	PB168083

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:	PB168083BS	SDG No.:	Q2074
Lab Sample ID:	PB168083BS	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
BF142480.D	1	05/20/25 09:45	05/21/25 11:37	PB168083

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	1200		160	330	ug/Kg
108-95-2	Phenol	1400		22.1	170	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	1400		24.3	170	ug/Kg
95-57-8	2-Chlorophenol	1400		24.4	170	ug/Kg
95-48-7	2-Methylphenol	1400		29.9	170	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	1400		37.5	170	ug/Kg
98-86-2	Acetophenone	1300		29.5	170	ug/Kg
65794-96-9	3+4-Methylphenols	1400		41.1	330	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	1400		47.4	79.9	ug/Kg
67-72-1	Hexachloroethane	1300		17.6	170	ug/Kg
98-95-3	Nitrobenzene	1400		18.3	170	ug/Kg
78-59-1	Isophorone	1400		32.8	170	ug/Kg
88-75-5	2-Nitrophenol	1500		58.1	170	ug/Kg
105-67-9	2,4-Dimethylphenol	1400		64.7	170	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	1300		30.8	170	ug/Kg
120-83-2	2,4-Dichlorophenol	1400		28.3	170	ug/Kg
91-20-3	Naphthalene	1400		22.7	170	ug/Kg
106-47-8	4-Chloroaniline	640		35.4	170	ug/Kg
87-68-3	Hexachlorobutadiene	1300		25.3	170	ug/Kg
105-60-2	Caprolactam	1500		52.0	330	ug/Kg
59-50-7	4-Chloro-3-methylphenol	1400		28.7	170	ug/Kg
91-57-6	2-Methylnaphthalene	1300		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	1300		21.8	170	ug/Kg
91-58-7	2-Chloronaphthalene	1300		22.5	170	ug/Kg
88-74-4	2-Nitroaniline	1400		48.1	170	ug/Kg
131-11-3	Dimethylphthalate	1400		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:	PB168083BS	SDG No.:	Q2074
Lab Sample ID:	PB168083BS	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
BF142480.D	1	05/20/25 09:45	05/21/25 11:37	PB168083

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	1300		28.9	170	ug/Kg
606-20-2	2,6-Dinitrotoluene	1400		33.6	170	ug/Kg
99-09-2	3-Nitroaniline	890		46.0	170	ug/Kg
83-32-9	Acenaphthene	1500		21.3	170	ug/Kg
51-28-5	2,4-Dinitrophenol	3300	E	230	330	ug/Kg
100-02-7	4-Nitrophenol	3000	E	110	330	ug/Kg
132-64-9	Dibenzofuran	1400		22.7	170	ug/Kg
121-14-2	2,4-Dinitrotoluene	1500		50.0	170	ug/Kg
84-66-2	Diethylphthalate	1500		28.3	170	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	1300		26.7	170	ug/Kg
86-73-7	Fluorene	1300		25.3	170	ug/Kg
100-01-6	4-Nitroaniline	1500		64.1	170	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	1700		100	330	ug/Kg
86-30-6	n-Nitrosodiphenylamine	1300		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	2800	E	51.2	330	ug/Kg
85-01-8	Phenanthrene	1400		20.9	170	ug/Kg
120-12-7	Anthracene	1300		33.3	170	ug/Kg
86-74-8	Carbazole	1400		31.2	170	ug/Kg
84-74-2	Di-n-butylphthalate	1500		47.9	170	ug/Kg
206-44-0	Fluoranthene	1500		30.0	170	ug/Kg
129-00-0	Pyrene	1600		36.0	170	ug/Kg
85-68-7	Butylbenzylphthalate	1600		71.3	170	ug/Kg
91-94-1	3,3-Dichlorobenzidine	810		36.7	330	ug/Kg
56-55-3	Benzo(a)anthracene	1400		23.0	170	ug/Kg
218-01-9	Chrysene	1400		19.9	170	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	1500		59.1	170	ug/Kg
117-84-0	Di-n-octyl phthalate	1400		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:	PB168083BS	SDG No.:	Q2074
Lab Sample ID:	PB168083BS	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
BF142480.D	1	05/20/25 09:45	05/21/25 11:37	PB168083

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	1400		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	1600		29.1	170	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	1600		27.4	170	ug/Kg
191-24-2	Benzo(g,h,i)perylene	1600		25.7	170	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	1300		25.6	170	ug/Kg
123-91-1	1,4-Dioxane	1100		45.2	170	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	1400		27.4	170	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	107		18 - 112	71%	SPK: 150
13127-88-3	Phenol-d6	115		15 - 107	76%	SPK: 150
4165-60-0	Nitrobenzene-d5	69.4		18 - 107	69%	SPK: 100
321-60-8	2-Fluorobiphenyl	66.0		20 - 109	66%	SPK: 100
118-79-6	2,4,6-Tribromophenol	117		10 - 116	78%	SPK: 150
1718-51-0	Terphenyl-d14	81.6		10 - 105	82%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	125000	6.898			
1146-65-2	Naphthalene-d8	495000	8.186			
15067-26-2	Acenaphthene-d10	277000	9.939			
1517-22-2	Phenanthrene-d10	469000	11.427			
1719-03-5	Chrysene-d12	215000	14.068			
1520-96-3	Perylene-d12	230000	15.562			

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements
J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	CDM Smith	Date Collected:	05/15/25
Project:	South River WM Replacement	Date Received:	05/16/25
Client Sample ID:	SS-11MS	SDG No.:	Q2074
Lab Sample ID:	Q2075-04MS	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	87.4
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
BF142487.D	1	05/20/25 09:45	05/21/25 15:06	PB168083

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	1500		180	380	ug/Kg
108-95-2	Phenol	1600		25.2	190	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	1500		27.7	190	ug/Kg
95-57-8	2-Chlorophenol	1600		27.9	190	ug/Kg
95-48-7	2-Methylphenol	1500		34.1	190	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	1500		42.8	190	ug/Kg
98-86-2	Acetophenone	1700		33.7	190	ug/Kg
65794-96-9	3+4-Methylphenols	1500		46.9	380	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	1500		54.1	91.3	ug/Kg
67-72-1	Hexachloroethane	1500		20.1	190	ug/Kg
98-95-3	Nitrobenzene	1600		20.9	190	ug/Kg
78-59-1	Isophorone	1500		37.4	190	ug/Kg
88-75-5	2-Nitrophenol	1600		66.4	190	ug/Kg
105-67-9	2,4-Dimethylphenol	1600		74.0	190	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	1500		35.2	190	ug/Kg
120-83-2	2,4-Dichlorophenol	1600		32.3	190	ug/Kg
91-20-3	Naphthalene	1600		25.9	190	ug/Kg
106-47-8	4-Chloroaniline	390		40.4	190	ug/Kg
87-68-3	Hexachlorobutadiene	1600		28.9	190	ug/Kg
105-60-2	Caprolactam	2100		59.5	380	ug/Kg
59-50-7	4-Chloro-3-methylphenol	1600		32.8	190	ug/Kg
91-57-6	2-Methylnaphthalene	1600		29.2	190	ug/Kg
77-47-4	Hexachlorocyclopentadiene	2800		130	380	ug/Kg
88-06-2	2,4,6-Trichlorophenol	1500		22.6	190	ug/Kg
95-95-4	2,4,5-Trichlorophenol	1600		33.2	190	ug/Kg
92-52-4	1,1-Biphenyl	1600		24.9	190	ug/Kg
91-58-7	2-Chloronaphthalene	1500		25.7	190	ug/Kg
88-74-4	2-Nitroaniline	1700		54.9	190	ug/Kg
131-11-3	Dimethylphthalate	1600		30.9	190	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	05/15/25
Project:	South River WM Replacement	Date Received:	05/16/25
Client Sample ID:	SS-11MS	SDG No.:	Q2074
Lab Sample ID:	Q2075-04MS	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	87.4
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
BF142487.D	1	05/20/25 09:45	05/21/25 15:06	PB168083

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	1600		33.0	190	ug/Kg
606-20-2	2,6-Dinitrotoluene	1700		38.4	190	ug/Kg
99-09-2	3-Nitroaniline	1100		52.5	190	ug/Kg
83-32-9	Acenaphthene	1800		24.3	190	ug/Kg
51-28-5	2,4-Dinitrophenol	4100	E	260	380	ug/Kg
100-02-7	4-Nitrophenol	4300	E	120	380	ug/Kg
132-64-9	Dibenzofuran	1600		25.9	190	ug/Kg
121-14-2	2,4-Dinitrotoluene	1900		57.2	190	ug/Kg
84-66-2	Diethylphthalate	1700		32.3	190	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	1600		30.5	190	ug/Kg
86-73-7	Fluorene	1700		28.9	190	ug/Kg
100-01-6	4-Nitroaniline	2100		73.3	190	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	1800		120	380	ug/Kg
86-30-6	n-Nitrosodiphenylamine	1500		37.6	190	ug/Kg
101-55-3	4-Bromophenyl-phenylether	1400		31.7	190	ug/Kg
118-74-1	Hexachlorobenzene	1500		28.9	190	ug/Kg
1912-24-9	Atrazine	2000		38.8	190	ug/Kg
87-86-5	Pentachlorophenol	3500	E	58.6	380	ug/Kg
85-01-8	Phenanthrene	1600		23.9	190	ug/Kg
120-12-7	Anthracene	1700		38.0	190	ug/Kg
86-74-8	Carbazole	1900		35.6	190	ug/Kg
84-74-2	Di-n-butylphthalate	2000		54.7	190	ug/Kg
206-44-0	Fluoranthene	2200		34.2	190	ug/Kg
129-00-0	Pyrene	1300		41.1	190	ug/Kg
85-68-7	Butylbenzylphthalate	1900		81.5	190	ug/Kg
91-94-1	3,3-Dichlorobenzidine	720		41.9	380	ug/Kg
56-55-3	Benzo(a)anthracene	1700		26.3	190	ug/Kg
218-01-9	Chrysene	1600		22.7	190	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	2100		67.6	190	ug/Kg
117-84-0	Di-n-octyl phthalate	1700		99.1	380	ug/Kg
205-99-2	Benzo(b)fluoranthene	1900		21.7	190	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	05/15/25
Project:	South River WM Replacement	Date Received:	05/16/25
Client Sample ID:	SS-11MS	SDG No.:	Q2074
Lab Sample ID:	Q2075-04MS	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	87.4
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
BF142487.D	1	05/20/25 09:45	05/21/25 15:06	PB168083

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	1600		25.6	190	ug/Kg
50-32-8	Benzo(a)pyrene	1700		33.7	190	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	1400		33.2	190	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	1400		31.3	190	ug/Kg
191-24-2	Benzo(g,h,i)perylene	1300		29.3	190	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	1500		29.2	190	ug/Kg
123-91-1	1,4-Dioxane	1400		51.6	190	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	1700		31.3	190	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	97.6		18 - 112	65%	SPK: 150
13127-88-3	Phenol-d6	97.8		15 - 107	65%	SPK: 150
4165-60-0	Nitrobenzene-d5	60.4		18 - 107	60%	SPK: 100
321-60-8	2-Fluorobiphenyl	51.6		20 - 109	52%	SPK: 100
118-79-6	2,4,6-Tribromophenol	113		10 - 116	76%	SPK: 150
1718-51-0	Terphenyl-d14	41.5		10 - 105	41%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	54800	6.898			
1146-65-2	Naphthalene-d8	201000	8.181			
15067-26-2	Acenaphthene-d10	114000	9.939			
1517-22-2	Phenanthrene-d10	229000	11.427			
1719-03-5	Chrysene-d12	211000	14.068			
1520-96-3	Perylene-d12	176000	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:	05/15/25
Project:	South River WM Replacement	Date Received:	05/16/25
Client Sample ID:	SS-11MSD	SDG No.:	Q2074
Lab Sample ID:	Q2075-05MSD	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	87.4
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
BF142488.D	1	05/20/25 09:45	05/21/25 15:34	PB168083

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	1400		180	380	ug/Kg
108-95-2	Phenol	1500		25.3	190	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	1500		27.8	190	ug/Kg
95-57-8	2-Chlorophenol	1500		27.9	190	ug/Kg
95-48-7	2-Methylphenol	1500		34.2	190	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	1500		42.9	190	ug/Kg
98-86-2	Acetophenone	1600		33.7	190	ug/Kg
65794-96-9	3+4-Methylphenols	1500		47.0	380	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	1400		54.2	91.4	ug/Kg
67-72-1	Hexachloroethane	1500		20.1	190	ug/Kg
98-95-3	Nitrobenzene	1600		20.9	190	ug/Kg
78-59-1	Isophorone	1500		37.5	190	ug/Kg
88-75-5	2-Nitrophenol	1600		66.5	190	ug/Kg
105-67-9	2,4-Dimethylphenol	1500		74.1	190	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	1500		35.2	190	ug/Kg
120-83-2	2,4-Dichlorophenol	1500		32.3	190	ug/Kg
91-20-3	Naphthalene	1600		25.9	190	ug/Kg
106-47-8	4-Chloroaniline	390		40.5	190	ug/Kg
87-68-3	Hexachlorobutadiene	1500		28.9	190	ug/Kg
105-60-2	Caprolactam	1800		59.6	380	ug/Kg
59-50-7	4-Chloro-3-methylphenol	1500		32.8	190	ug/Kg
91-57-6	2-Methylnaphthalene	1500		29.3	190	ug/Kg
77-47-4	Hexachlorocyclopentadiene	3100	E	130	380	ug/Kg
88-06-2	2,4,6-Trichlorophenol	1600		22.6	190	ug/Kg
95-95-4	2,4,5-Trichlorophenol	1600		33.3	190	ug/Kg
92-52-4	1,1-Biphenyl	1600		24.9	190	ug/Kg
91-58-7	2-Chloronaphthalene	1600		25.7	190	ug/Kg
88-74-4	2-Nitroaniline	1700		55.0	190	ug/Kg
131-11-3	Dimethylphthalate	1600		31.0	190	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	05/15/25
Project:	South River WM Replacement	Date Received:	05/16/25
Client Sample ID:	SS-11MSD	SDG No.:	Q2074
Lab Sample ID:	Q2075-05MSD	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	87.4
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
BF142488.D	1	05/20/25 09:45	05/21/25 15:34	PB168083

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	1600		33.0	190	ug/Kg
606-20-2	2,6-Dinitrotoluene	1600		38.4	190	ug/Kg
99-09-2	3-Nitroaniline	1000		52.6	190	ug/Kg
83-32-9	Acenaphthene	1800		24.3	190	ug/Kg
51-28-5	2,4-Dinitrophenol	3700	E	260	380	ug/Kg
100-02-7	4-Nitrophenol	4100	E	120	380	ug/Kg
132-64-9	Dibenzofuran	1600		25.9	190	ug/Kg
121-14-2	2,4-Dinitrotoluene	1800		57.3	190	ug/Kg
84-66-2	Diethylphthalate	1600		32.3	190	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	1600		30.5	190	ug/Kg
86-73-7	Fluorene	1600		28.9	190	ug/Kg
100-01-6	4-Nitroaniline	1900		73.4	190	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	1700		120	380	ug/Kg
86-30-6	n-Nitrosodiphenylamine	1500		37.6	190	ug/Kg
101-55-3	4-Bromophenyl-phenylether	1400		31.8	190	ug/Kg
118-74-1	Hexachlorobenzene	1500		28.9	190	ug/Kg
1912-24-9	Atrazine	1900		38.9	190	ug/Kg
87-86-5	Pentachlorophenol	3400	E	58.6	380	ug/Kg
85-01-8	Phenanthrene	1700		23.9	190	ug/Kg
120-12-7	Anthracene	1700		38.1	190	ug/Kg
86-74-8	Carbazole	1900		35.7	190	ug/Kg
84-74-2	Di-n-butylphthalate	1900		54.8	190	ug/Kg
206-44-0	Fluoranthene	2300		34.3	190	ug/Kg
129-00-0	Pyrene	1300		41.1	190	ug/Kg
85-68-7	Butylbenzylphthalate	1900		81.6	190	ug/Kg
91-94-1	3,3-Dichlorobenzidine	770		41.9	380	ug/Kg
56-55-3	Benzo(a)anthracene	1600		26.3	190	ug/Kg
218-01-9	Chrysene	1600		22.7	190	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	2000		67.7	190	ug/Kg
117-84-0	Di-n-octyl phthalate	1600		99.2	380	ug/Kg
205-99-2	Benzo(b)fluoranthene	1700		21.7	190	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	05/15/25
Project:	South River WM Replacement	Date Received:	05/16/25
Client Sample ID:	SS-11MSD	SDG No.:	Q2074
Lab Sample ID:	Q2075-05MSD	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	87.4
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
BF142488.D	1	05/20/25 09:45	05/21/25 15:34	PB168083

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	1700		25.6	190	ug/Kg
50-32-8	Benzo(a)pyrene	1700		33.7	190	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	1400		33.3	190	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	1300		31.3	190	ug/Kg
191-24-2	Benzo(g,h,i)perylene	1300		29.4	190	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	1600		29.3	190	ug/Kg
123-91-1	1,4-Dioxane	1400		51.7	190	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	1600		31.3	190	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	95.8		18 - 112	64%	SPK: 150
13127-88-3	Phenol-d6	95.6		15 - 107	64%	SPK: 150
4165-60-0	Nitrobenzene-d5	59.6		18 - 107	60%	SPK: 100
321-60-8	2-Fluorobiphenyl	54.4		20 - 109	54%	SPK: 100
118-79-6	2,4,6-Tribromophenol	106		10 - 116	71%	SPK: 150
1718-51-0	Terphenyl-d14	40.2		10 - 105	40%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	53500	6.898			
1146-65-2	Naphthalene-d8	192000	8.181			
15067-26-2	Acenaphthene-d10	95700	9.939			
1517-22-2	Phenanthrene-d10	179000	11.427			
1719-03-5	Chrysene-d12	174000	14.068			
1520-96-3	Perylene-d12	148000	15.557			

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

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Fax : 908 789 8922

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: CAMP02

Lab Code: CHEM Case No.: Q2074 SAS No.: Q2074 SDG No.: Q2074

Instrument ID: BNA_F Calibration Date/Time: 05/21/2025 10:40

Lab File ID: BF142478.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	1.087		-8.4	
Benzaldehyde	0.859	0.796		-7.3	
Phenol-d6	1.429	1.358		-5.0	
Phenol	1.608	1.558		-3.1	20.0
bis(2-Chloroethyl)ether	1.157	1.067		-7.8	
2-Chlorophenol	1.293	1.186		-8.3	
2-Methylphenol	1.010	0.970		-4.0	
2,2-oxybis(1-Chloropropane)	1.944	1.877		-3.4	
Acetophenone	0.443	0.405		-8.6	
3+4-Methylphenols	1.293	1.183		-8.5	
n-Nitroso-di-n-propylamine	0.886	0.800	0.050	-9.7	
Nitrobenzene-d5	0.367	0.343		-6.5	
Hexachloroethane	0.507	0.456		-10.1	
Nitrobenzene	0.331	0.317		-4.2	
Isophorone	0.613	0.568		-7.3	
2-Nitrophenol	0.177	0.174		-1.7	20.0
2,4-Dimethylphenol	0.312	0.300		-3.8	
bis(2-Chloroethoxy)methane	0.383	0.364		-5.0	
2,4-Dichlorophenol	0.283	0.278		-1.8	20.0
Naphthalene	0.985	0.928		-5.8	
4-Chloroaniline	0.399	0.393		-1.5	
Hexachlorobutadiene	0.192	0.182		-5.2	20.0
Caprolactam	0.080	0.084		5.0	
4-Chloro-3-methylphenol	0.291	0.287		-1.4	20.0
2-Methylnaphthalene	0.620	0.570		-8.1	
Hexachlorocyclopentadiene	0.387	0.381	0.050	-1.5	
2,4,6-Trichlorophenol	0.387	0.383		-1.0	20.0
2-Fluorobiphenyl	1.490	1.373		-7.9	
2,4,5-Trichlorophenol	0.408	0.396		-2.9	
1,1-Biphenyl	1.552	1.477		-4.8	
2-Chloronaphthalene	1.146	1.098		-4.2	
2-Nitroaniline	0.331	0.331		0.0	
Dimethylphthalate	1.320	1.241		-6.0	
Acenaphthylene	1.936	1.795		-7.3	
2,6-Dinitrotoluene	0.285	0.278		-2.5	
3-Nitroaniline	0.311	0.312		0.3	
Acenaphthene	1.182	1.125		-4.8	20.0
2,4-Dinitrophenol	0.147	0.159	0.050	8.2	
4-Nitrophenol	0.230	0.243	0.050	5.7	

Form VII SV-1

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: CAMP02

Lab Code: CHEM Case No.: Q2074 SAS No.: Q2074 SDG No.: Q2074

Instrument ID: BNA_F Calibration Date/Time: 05/21/2025 10:40

Lab File ID: BF142478.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	1.672		-1.7	
2,4-Dinitrotoluene	0.372	0.383		3.0	
Diethylphthalate	1.289	1.286		-0.2	
4-Chlorophenyl-phenylether	0.646	0.606		-6.2	
Fluorene	1.314	1.229		-6.5	
4-Nitroaniline	0.282	0.296		5.0	
4,6-Dinitro-2-methylphenol	0.112	0.119		6.3	
n-Nitrosodiphenylamine	0.684	0.641		-6.3	20.0
2,4,6-Tribromophenol	0.222	0.225		1.4	
4-Bromophenyl-phenylether	0.236	0.219		-7.2	
Hexachlorobenzene	0.262	0.247		-5.7	
Atrazine	0.182	0.186		2.2	
Pentachlorophenol	0.148	0.153		3.4	20.0
Phenanthrene	1.069	0.989		-7.5	
Anthracene	1.091	1.022		-6.3	
Carbazole	0.933	0.929		-0.4	
Di-n-butylphthalate	1.021	1.084		6.2	
Fluoranthene	0.999	0.984		-1.5	20.0
Pyrene	1.866	1.932		3.5	
Terphenyl-d14	1.464	1.466		0.1	
Butylbenzylphthalate	0.516	0.570		10.5	
3,3-Dichlorobenzidine	0.405	0.387		-4.4	
Benzo(a)anthracene	1.336	1.289		-3.5	
Chrysene	1.200	1.116		-7.0	
Bis(2-ethylhexyl)phthalate	0.660	0.620		-6.1	
Di-n-octyl phthalate	1.290	1.049		-18.7	20.0
Benzo(b)fluoranthene	1.184	1.216		2.7	
Benzo(k)fluoranthene	1.109	0.996		-10.2	
Benzo(a)pyrene	1.116	1.061		-4.9	20.0
Indeno(1,2,3-cd)pyrene	1.501	1.409		-6.1	
Dibenzo(a,h)anthracene	1.218	1.156		-5.1	
Benzo(g,h,i)perylene	1.218	1.202		-1.3	
1,2,4,5-Tetrachlorobenzene	0.574	0.545		-5.1	
1,4-Dioxane	0.475	0.429		-9.7	20.0
2,3,4,6-Tetrachlorophenol	0.341	0.346		1.5	

All other compounds must meet a minimum RRF of 0.010.

Form VII SV-1

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: CAMP02

Lab Code: CHEM Case No.: Q2074 SAS No.: Q2074 SDG No.: Q2074

Instrument ID: BNA_F Calibration Date/Time: 05/22/2025 11:11

Lab File ID: BF142502.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	1.158		-2.4	
Benzaldehyde	0.859	0.845		-1.6	
Phenol-d6	1.429	1.379		-3.5	
Phenol	1.608	1.566		-2.6	20.0
bis(2-Chloroethyl)ether	1.157	1.111		-4.0	
2-Chlorophenol	1.293	1.264		-2.2	
2-Methylphenol	1.010	0.982		-2.8	
2,2-oxybis(1-Chloropropane)	1.944	1.852		-4.7	
Acetophenone	0.443	0.423		-4.5	
3+4-Methylphenols	1.293	1.242		-3.9	
n-Nitroso-di-n-propylamine	0.886	0.821	0.050	-7.3	
Nitrobenzene-d5	0.367	0.356		-3.0	
Hexachloroethane	0.507	0.483		-4.7	
Nitrobenzene	0.331	0.321		-3.0	
Isophorone	0.613	0.568		-7.3	
2-Nitrophenol	0.177	0.173		-2.3	20.0
2,4-Dimethylphenol	0.312	0.302		-3.2	
bis(2-Chloroethoxy)methane	0.383	0.360		-6.0	
2,4-Dichlorophenol	0.283	0.276		-2.5	20.0
Naphthalene	0.985	0.939		-4.7	
4-Chloroaniline	0.399	0.383		-4.0	
Hexachlorobutadiene	0.192	0.181		-5.7	20.0
Caprolactam	0.080	0.075		-6.3	
4-Chloro-3-methylphenol	0.291	0.277		-4.8	20.0
2-Methylnaphthalene	0.620	0.578		-6.8	
Hexachlorocyclopentadiene	0.387	0.382	0.050	-1.3	
2,4,6-Trichlorophenol	0.387	0.383		-1.0	20.0
2-Fluorobiphenyl	1.490	1.389		-6.8	
2,4,5-Trichlorophenol	0.408	0.386		-5.4	
1,1-Biphenyl	1.552	1.481		-4.6	
2-Chloronaphthalene	1.146	1.107		-3.4	
2-Nitroaniline	0.331	0.322		-2.7	
Dimethylphthalate	1.320	1.214		-8.0	
Acenaphthylene	1.936	1.864		-3.7	
2,6-Dinitrotoluene	0.285	0.267		-6.3	
3-Nitroaniline	0.311	0.303		-2.6	
Acenaphthene	1.182	1.118		-5.4	20.0
2,4-Dinitrophenol	0.147	0.138	0.050	-6.1	
4-Nitrophenol	0.230	0.220	0.050	-4.3	

Form VII SV-1

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.: Q2074 SAS No.: Q2074 SDG No.: Q2074

Instrument ID: BNA_F Calibration Date/Time: 05/22/2025 11:11

Lab File ID: BF142502.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	1.610		-5.3	
2,4-Dinitrotoluene	0.372	0.356		-4.3	
Diethylphthalate	1.289	1.147		-11.0	
4-Chlorophenyl-phenylether	0.646	0.596		-7.7	
Fluorene	1.314	1.233		-6.2	
4-Nitroaniline	0.282	0.266		-5.7	
4,6-Dinitro-2-methylphenol	0.112	0.111		-0.9	
n-Nitrosodiphenylamine	0.684	0.661		-3.4	20.0
2,4,6-Tribromophenol	0.222	0.208		-6.3	
4-Bromophenyl-phenylether	0.236	0.224		-5.1	
Hexachlorobenzene	0.262	0.251		-4.2	
Atrazine	0.182	0.157		-13.7	
Pentachlorophenol	0.148	0.146		-1.4	20.0
Phenanthrene	1.069	1.009		-5.6	
Anthracene	1.091	1.031		-5.5	
Carbazole	0.933	0.863		-7.5	
Di-n-butylphthalate	1.021	0.823		-19.4	
Fluoranthene	0.999	0.878		-12.1	20.0
Pyrene	1.866	1.705		-8.6	
Terphenyl-d14	1.464	1.259		-14.0	
Butylbenzylphthalate	0.516	0.496		-3.9	
3,3-Dichlorobenzidine	0.405	0.443		9.4	
Benzo(a)anthracene	1.336	1.258		-5.8	
Chrysene	1.200	1.136		-5.3	
Bis(2-ethylhexyl)phthalate	0.660	0.801		21.4	
Di-n-octyl phthalate	1.290	1.410		9.3	20.0
Benzo(b)fluoranthene	1.184	1.087		-8.2	
Benzo(k)fluoranthene	1.109	1.044		-5.9	
Benzo(a)pyrene	1.116	1.078		-3.4	20.0
Indeno(1,2,3-cd)pyrene	1.501	1.416		-5.7	
Dibenzo(a,h)anthracene	1.218	1.143		-6.2	
Benzo(g,h,i)perylene	1.218	1.144		-6.1	
1,2,4,5-Tetrachlorobenzene	0.574	0.562		-2.1	
1,4-Dioxane	0.475	0.470		-1.1	20.0
2,3,4,6-Tetrachlorophenol	0.341	0.325		-4.7	

All other compounds must meet a minimum RRF of 0.010.

SAMPLE RAW DATA

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052225\
Data File : BF142513.D
Acq On : 22 May 2025 16:34
Operator : RC/JU
Sample : Q2074-01
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-12

Quant Time: May 23 01:22:01 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

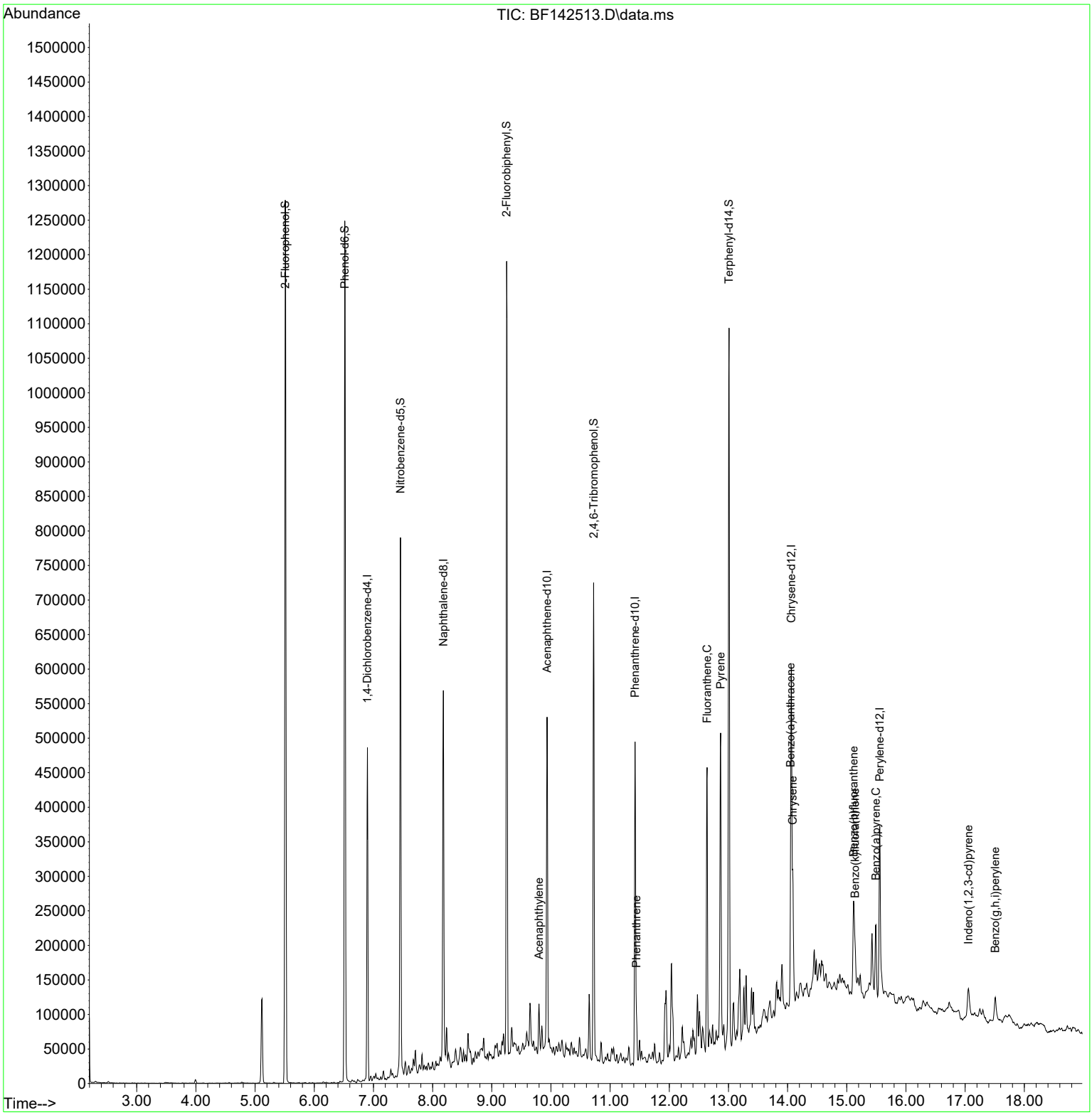
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.898	152	100796	20.000	ng		0.00
21) Naphthalene-d8	8.181	136	331984	20.000	ng		0.00
39) Acenaphthene-d10	9.934	164	141613	20.000	ng		-0.01
64) Phenanthrene-d10	11.422	188	236489	20.000	ng		-0.01
76) Chrysene-d12	14.063	240	182992	20.000	ng		-0.01
86) Perylene-d12	15.557	264	150268	20.000	ng		-0.01
System Monitoring Compounds							
5) 2-Fluorophenol	5.510	112	494096	82.586	ng		0.00
7) Phenol-d6	6.516	99	574621	79.788	ng		-0.02
23) Nitrobenzene-d5	7.457	82	319194	52.428	ng		-0.02
42) 2,4,6-Tribromophenol	10.722	330	116500	74.122	ng		-0.02
45) 2-Fluorobiphenyl	9.251	172	516485	48.940	ng		-0.02
79) Terphenyl-d14	13.010	244	504282	37.659	ng		0.00
Target Compounds							Qvalue
49) Acenaphthylene	9.798	152	31014	2.263	ng		96
71) Phenanthrene	11.445	178	36032	2.851	ng		98
75) Fluoranthene	12.639	202	237713	20.129	ng		100
78) Pyrene	12.869	202	269306	15.776	ng		99
81) Benzo(a)anthracene	14.051	228	93070m	7.617	ng		
83) Chrysene	14.086	228	102605	9.345	ng		98
87) Indeno(1,2,3-cd)pyrene	17.057	276	33902	3.005	ng		97
88) Benzo(b)fluoranthene	15.116	252	101084m	11.366	ng		
89) Benzo(k)fluoranthene	15.139	252	19022m	2.284	ng		
90) Benzo(a)pyrene	15.492	252	64411	7.683	ng	#	97
92) Benzo(g,h,i)perylene	17.510	276	31581	3.451	ng		97

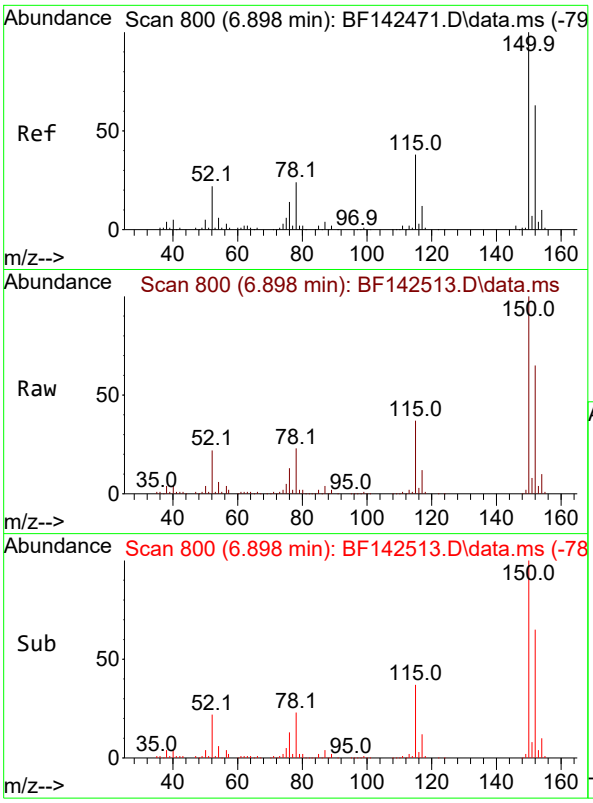
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052225\
Data File : BF142513.D
Acq On : 22 May 2025 16:34
Operator : RC/JU
Sample : Q2074-01
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-12

Quant Time: May 23 01:22:01 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



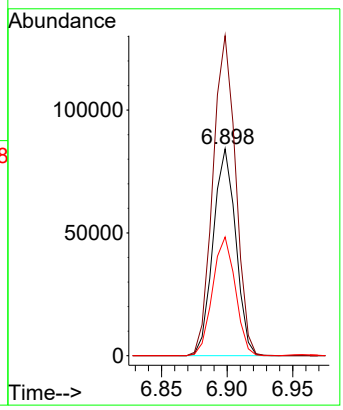


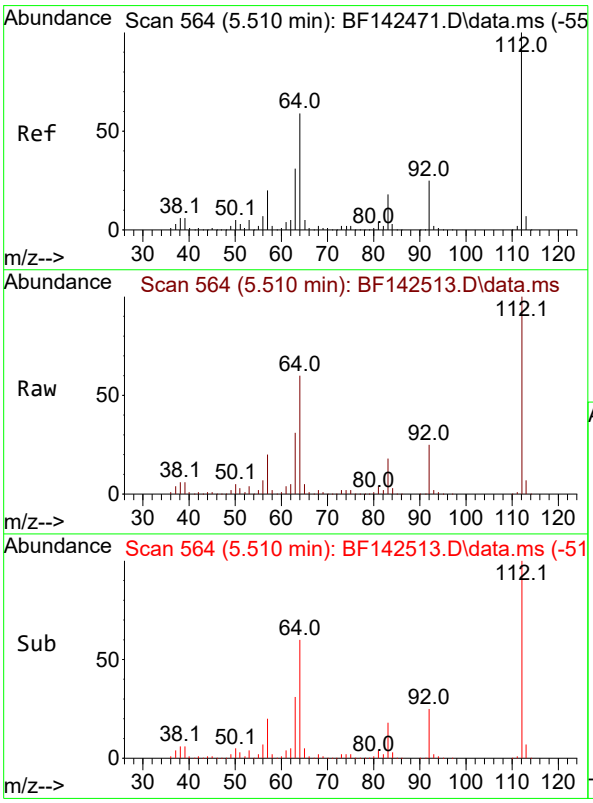
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.898 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF142513.D
Acq: 22 May 2025 16:34

Instrument :
BNA_F
ClientSampleId :
TP-12

Tgt Ion:152 Resp: 100796

Ion	Ratio	Lower	Upper
152	100		
150	154.6	128.2	192.4
115	57.4	48.3	72.5

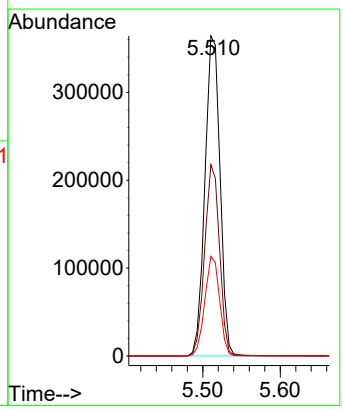


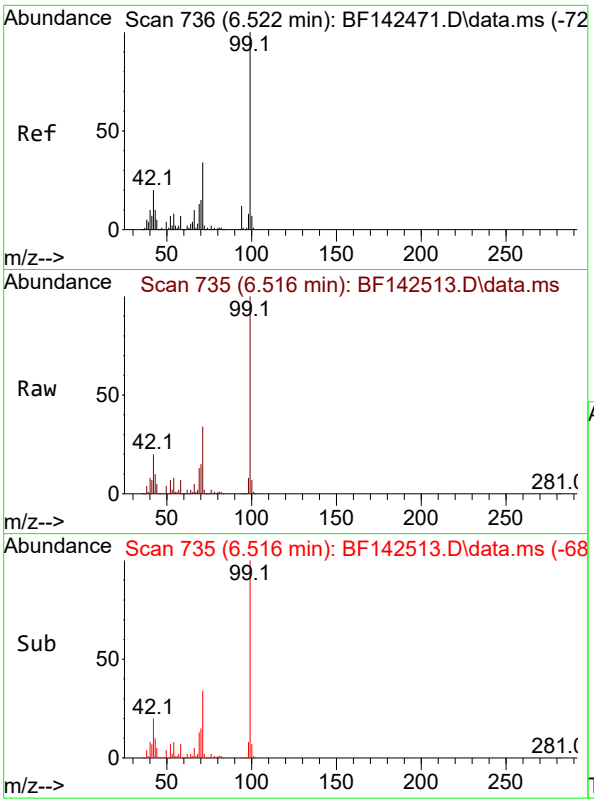


#5
2-Fluorophenol
Concen: 82.586 ng
RT: 5.510 min Scan# 564
Delta R.T. -0.006 min
Lab File: BF142513.D
Acq: 22 May 2025 16:34

Tgt Ion:112 Resp: 494096

Ion	Ratio	Lower	Upper
112	100		
64	59.7	47.5	71.3
63	31.1	24.9	37.3



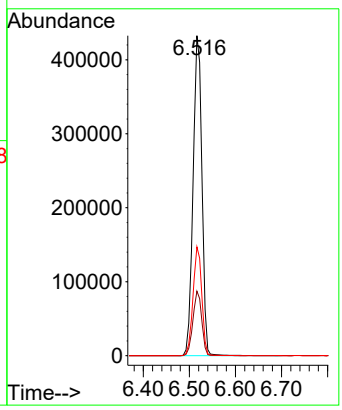


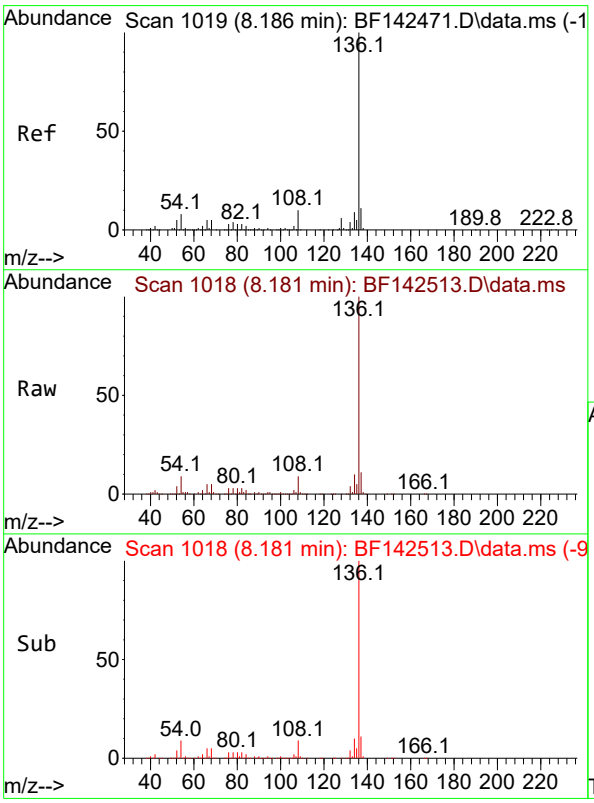
#7
Phenol-d6
Concen: 79.788 ng
RT: 6.516 min Scan# 7
Delta R.T. -0.017 min
Lab File: BF142513.D
Acq: 22 May 2025 16:34

Instrument :
BNA_F
ClientSampleId :
TP-12

Tgt Ion: 99 Resp: 574621

Ion	Ratio	Lower	Upper
99	100		
42	20.2	16.2	24.2
71	34.0	27.3	40.9

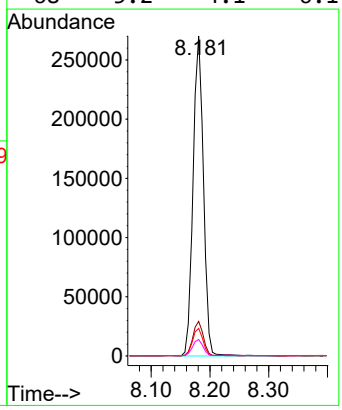


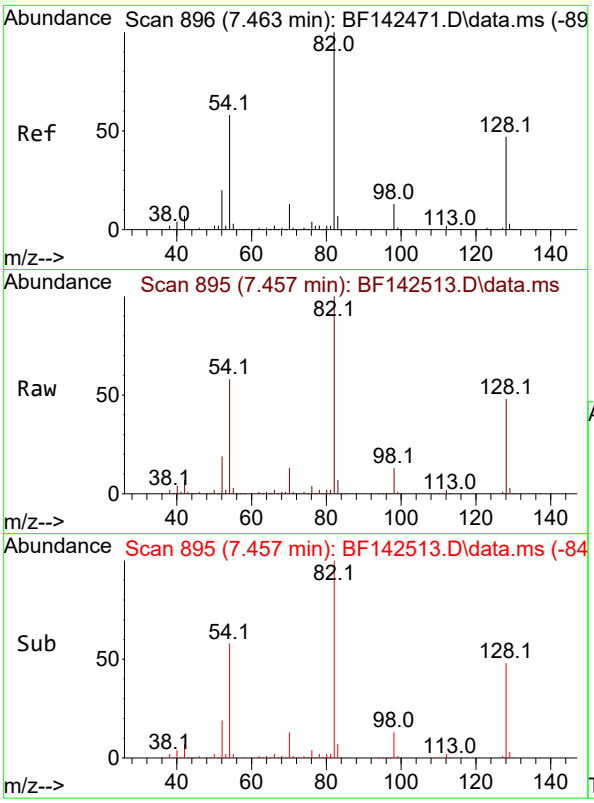


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.181 min Scan# 1018
Delta R.T. -0.006 min
Lab File: BF142513.D
Acq: 22 May 2025 16:34

Tgt Ion:136 Resp: 331984

Ion	Ratio	Lower	Upper
136	100		
137	10.8	8.6	13.0
54	8.6	6.6	10.0
68	5.2	4.1	6.1



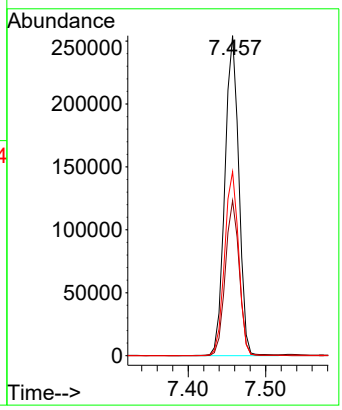


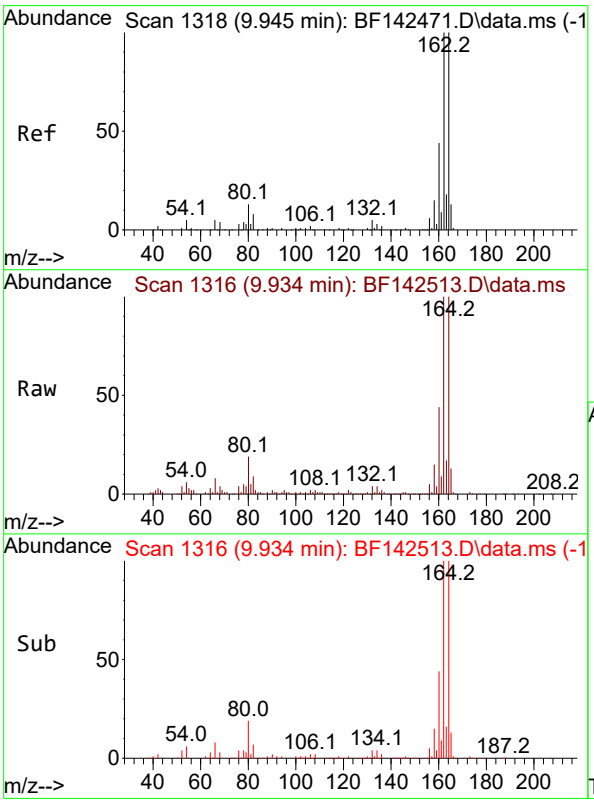
#23
Nitrobenzene-d5
Concen: 52.428 ng
RT: 7.457 min Scan# 8
Delta R.T. -0.017 min
Lab File: BF142513.D
Acq: 22 May 2025 16:34

Instrument :
BNA_F
ClientSampleId :
TP-12

Tgt Ion: 82 Resp: 319194

Ion	Ratio	Lower	Upper
82	100		
128	48.4	37.4	56.2
54	57.5	46.6	70.0

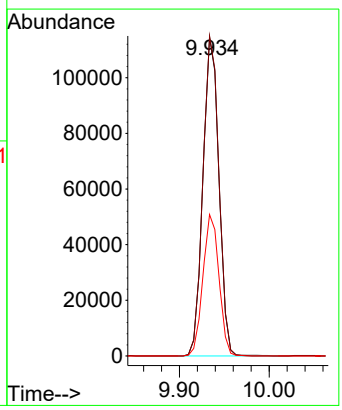


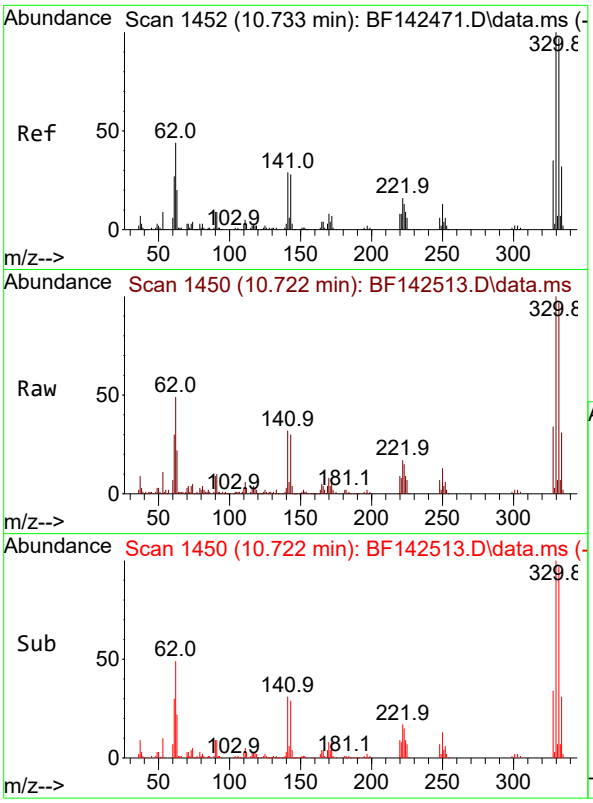


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.934 min Scan# 1316
Delta R.T. -0.012 min
Lab File: BF142513.D
Acq: 22 May 2025 16:34

Tgt Ion:164 Resp: 141613

Ion	Ratio	Lower	Upper
164	100		
162	100.4	80.2	120.4
160	44.4	35.6	53.4



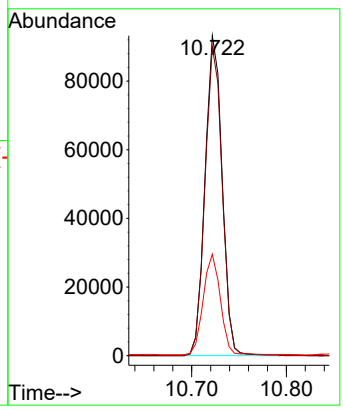


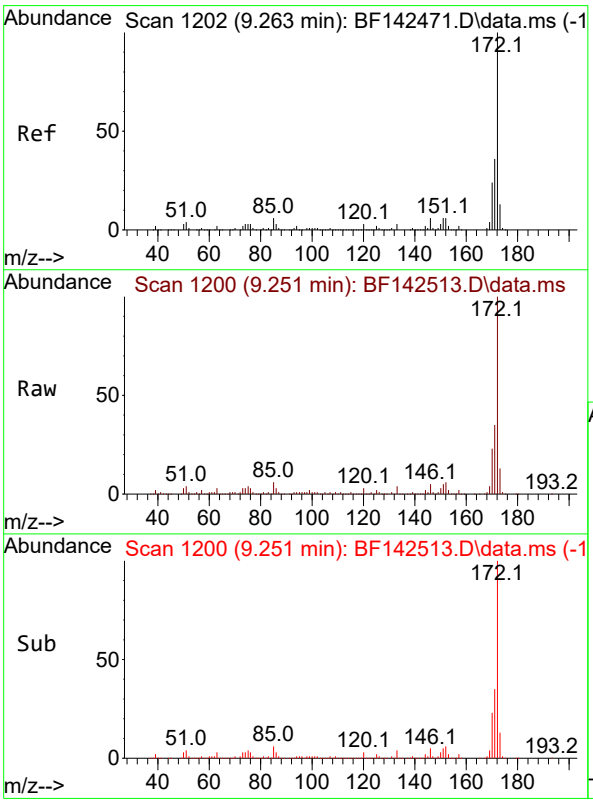
#42
2,4,6-Tribromophenol
Concen: 74.122 ng
RT: 10.722 min Scan# 14
Delta R.T. -0.017 min
Lab File: BF142513.D
Acq: 22 May 2025 16:34

Instrument :
BNA_F
ClientSampleId :
TP-12

Tgt Ion:330 Resp: 116500

Ion	Ratio	Lower	Upper
330	100		
332	97.1	77.6	116.4
141	31.4	24.6	36.8

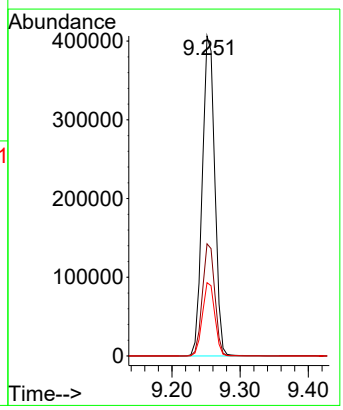


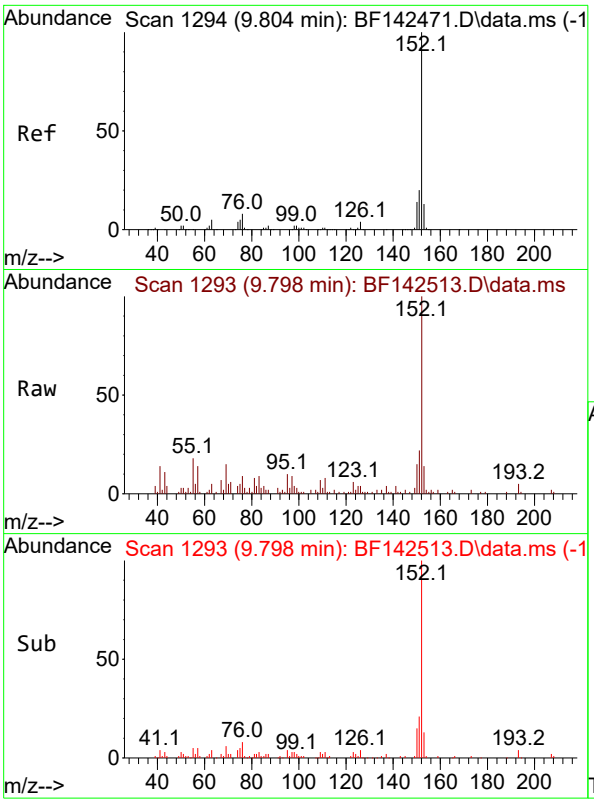


#45
2-Fluorobiphenyl
Concen: 48.940 ng
RT: 9.251 min Scan# 1200
Delta R.T. -0.017 min
Lab File: BF142513.D
Acq: 22 May 2025 16:34

Tgt Ion:172 Resp: 516485

Ion	Ratio	Lower	Upper
172	100		
171	35.1	28.6	42.8
170	22.9	18.9	28.3



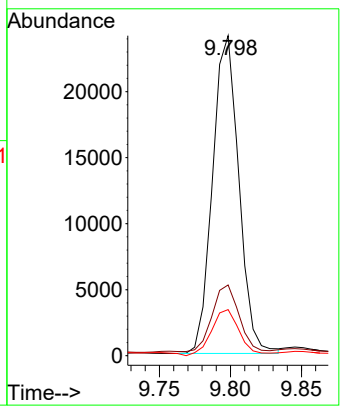


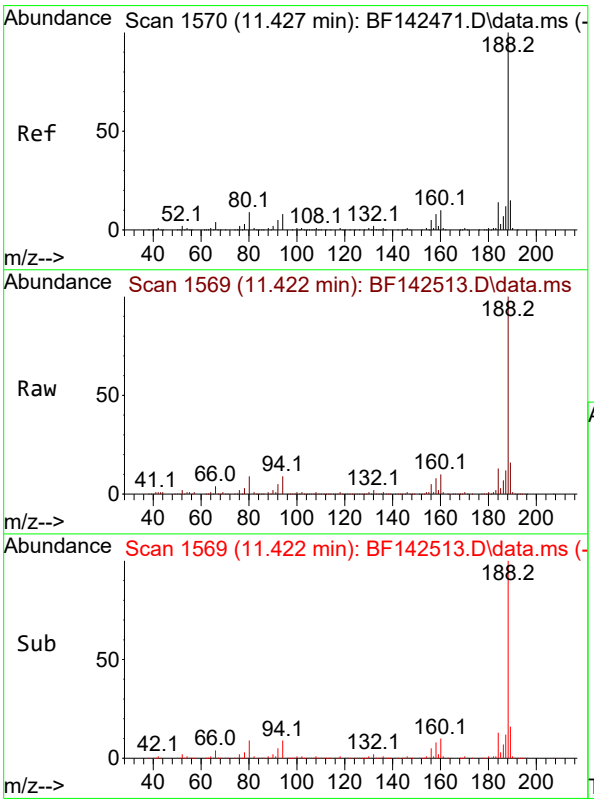
#49
Acenaphthylene
Concen: 2.263 ng
RT: 9.798 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF142513.D
Acq: 22 May 2025 16:34

Instrument :
BNA_F
ClientSampleId :
TP-12

Tgt Ion:152 Resp: 31014

Ion	Ratio	Lower	Upper
152	100		
151	22.1	15.8	23.8
153	14.4	10.6	15.8

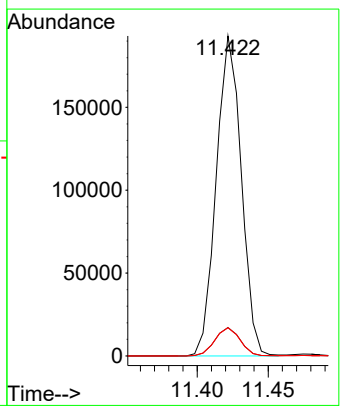


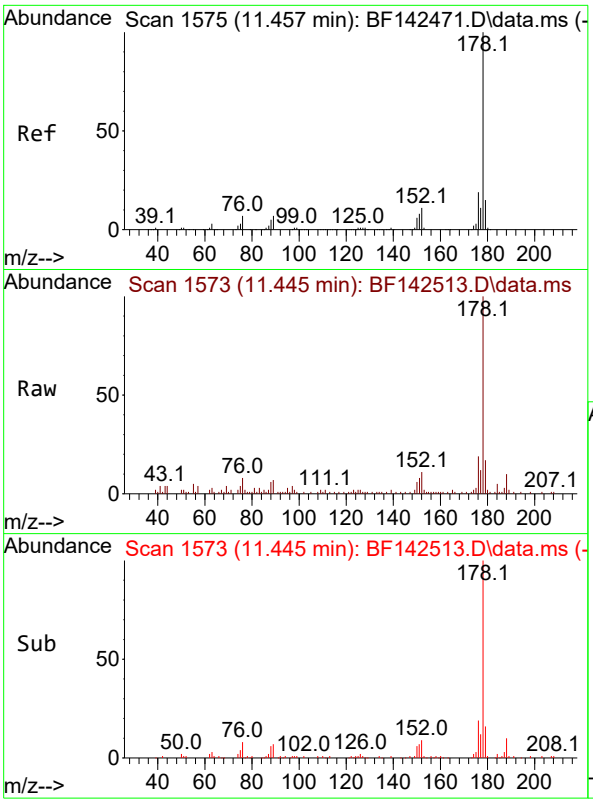


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.422 min Scan# 1569
Delta R.T. -0.012 min
Lab File: BF142513.D
Acq: 22 May 2025 16:34

Tgt Ion:188 Resp: 236489

Ion	Ratio	Lower	Upper
188	100		
94	8.9	6.6	10.0
80	8.8	7.4	11.0



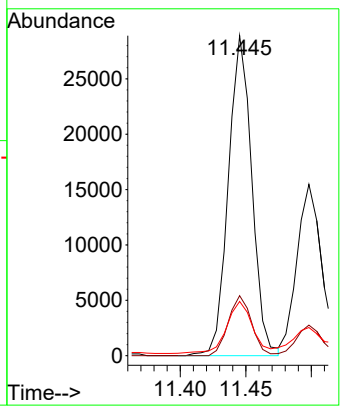


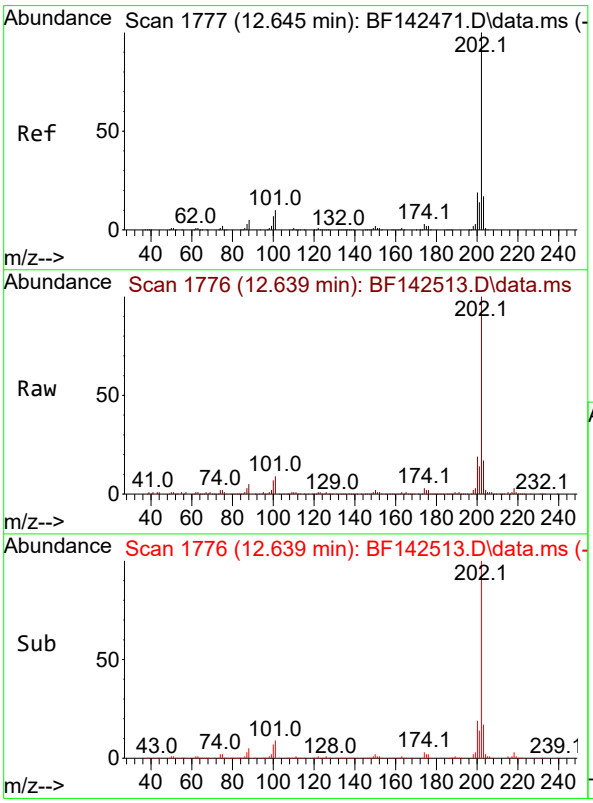
#71
Phenanthrene
Concen: 2.851 ng
RT: 11.445 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF142513.D
Acq: 22 May 2025 16:34

Instrument :
BNA_F
ClientSampleId :
TP-12

Tgt Ion:178 Resp: 36032

Ion	Ratio	Lower	Upper
178	100		
176	18.7	15.4	23.0
179	16.9	12.3	18.5

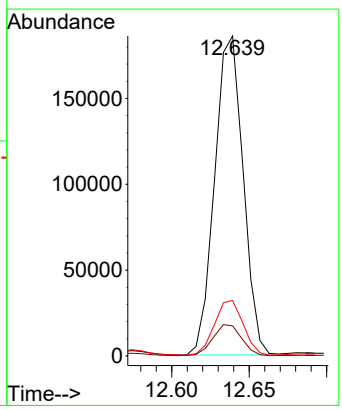


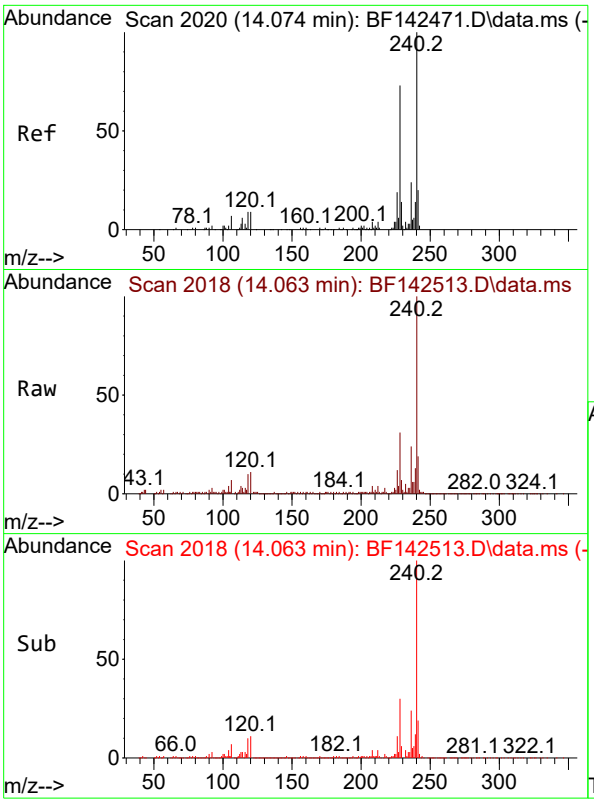


#75
Fluoranthene
Concen: 20.129 ng
RT: 12.639 min Scan# 1776
Delta R.T. -0.006 min
Lab File: BF142513.D
Acq: 22 May 2025 16:34

Tgt Ion:202 Resp: 237713

Ion	Ratio	Lower	Upper
202	100		
101	9.4	0.0	29.6
203	17.3	0.0	37.2



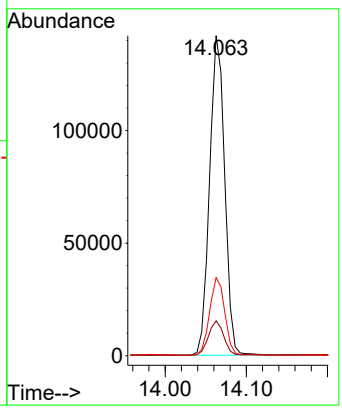


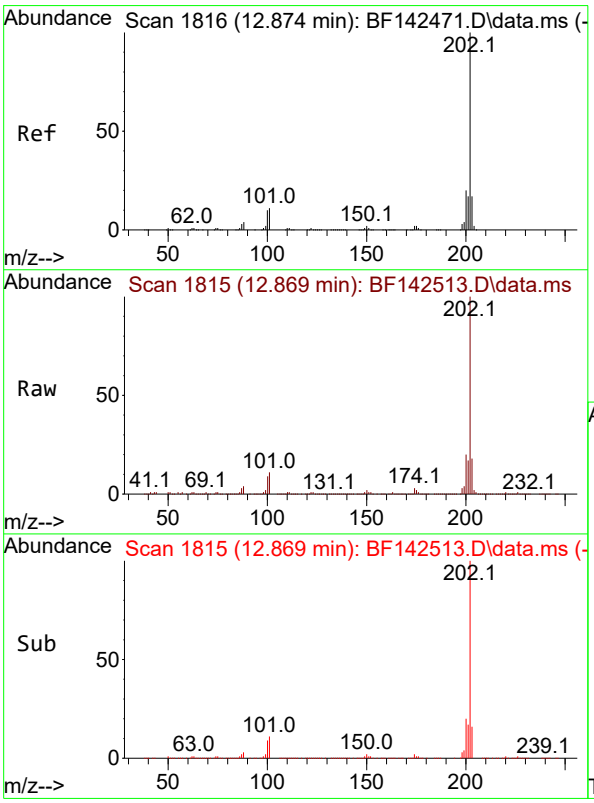
#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.063 min Scan# 2
Delta R.T. -0.012 min
Lab File: BF142513.D
Acq: 22 May 2025 16:34

Instrument :
BNA_F
ClientSampleId :
TP-12

Tgt Ion:240 Resp: 182992

Ion	Ratio	Lower	Upper
240	100		
120	10.9	7.5	11.3
236	24.4	19.6	29.4

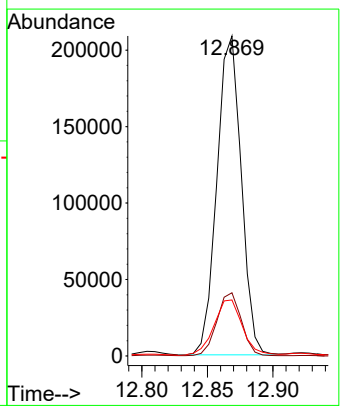


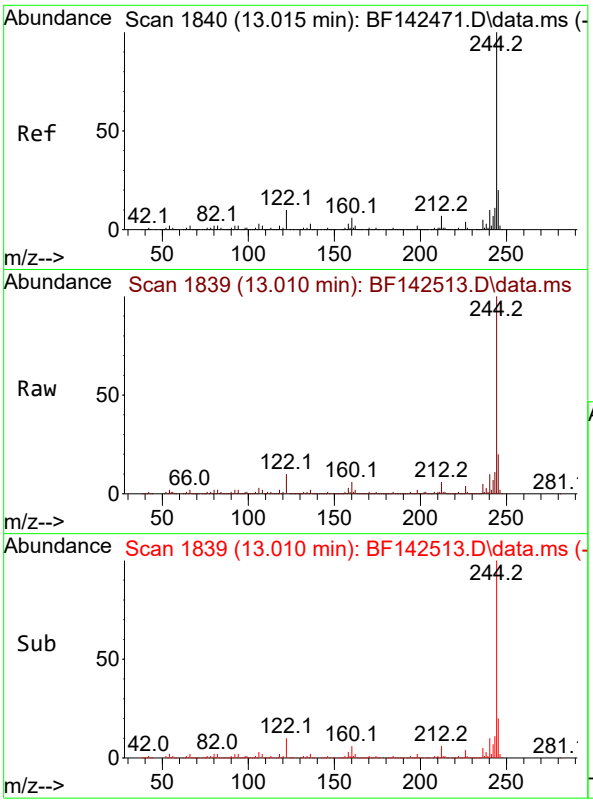


#78
Pyrene
Concen: 15.776 ng
RT: 12.869 min Scan# 1815
Delta R.T. -0.006 min
Lab File: BF142513.D
Acq: 22 May 2025 16:34

Tgt Ion:202 Resp: 269306

Ion	Ratio	Lower	Upper
202	100		
200	19.7	16.1	24.1
203	17.5	13.9	20.9



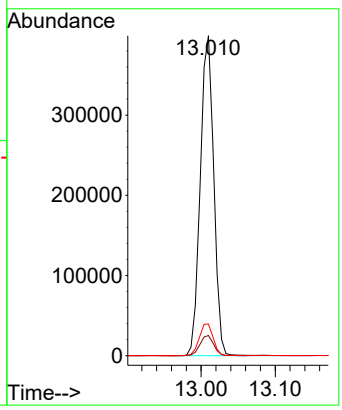


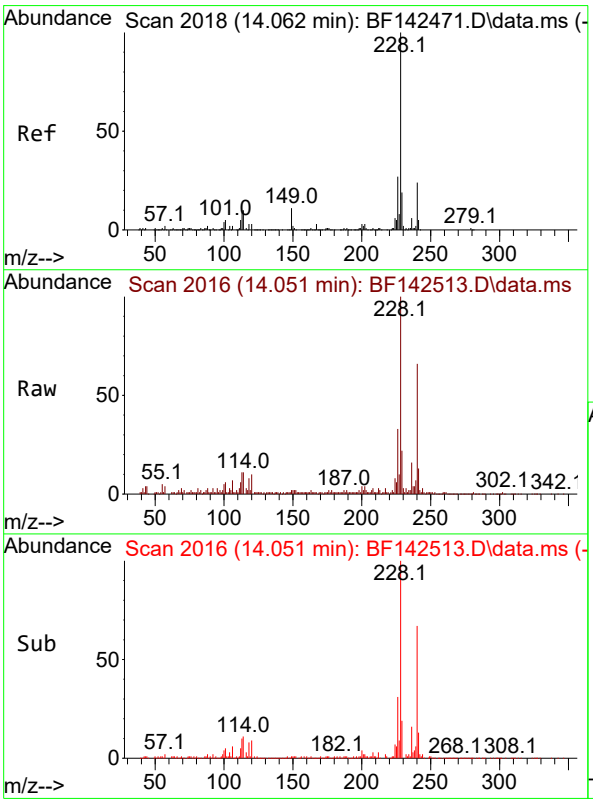
#79
Terphenyl-d14
Concen: 37.659 ng
RT: 13.010 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF142513.D
Acq: 22 May 2025 16:34

Instrument :
BNA_F
ClientSampleId :
TP-12

Tgt Ion:244 Resp: 504282

Ion	Ratio	Lower	Upper
244	100		
212	6.3	5.3	7.9
122	9.9	8.2	12.2

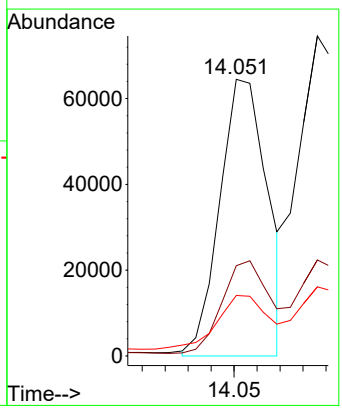


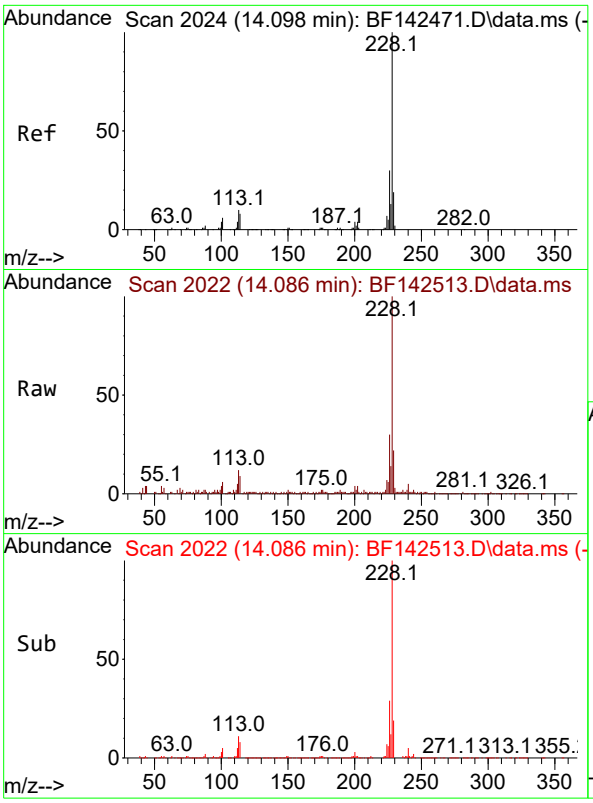


#81
Benzo(a)anthracene
Concen: 7.617 ng m
RT: 14.051 min Scan# 2016
Delta R.T. -0.012 min
Lab File: BF142513.D
Acq: 22 May 2025 16:34

Tgt Ion:228 Resp: 93070

Ion	Ratio	Lower	Upper
228	100		
226	32.6	21.2	31.8#
229	21.8	15.5	23.3



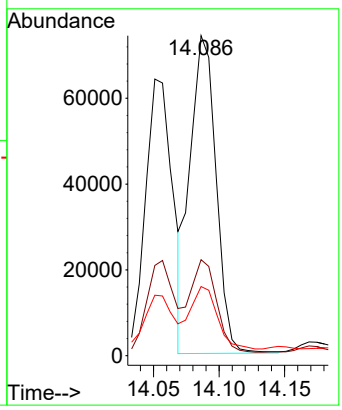


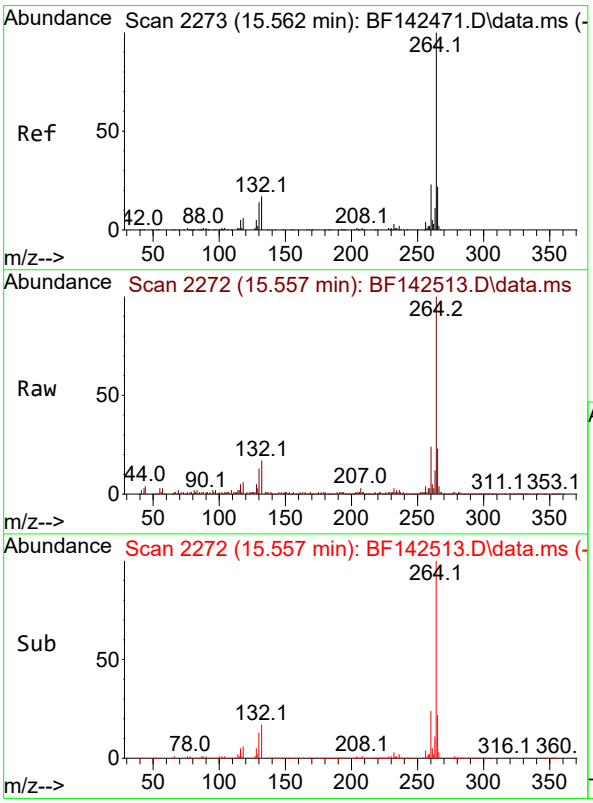
#83
Chrysene
Concen: 9.345 ng
RT: 14.086 min Scan# 2
Delta R.T. -0.017 min
Lab File: BF142513.D
Acq: 22 May 2025 16:34

Instrument :
BNA_F
ClientSampleId :
TP-12

Tgt Ion:228 Resp: 102605

Ion	Ratio	Lower	Upper
228	100		
226	30.0	23.8	35.6
229	21.6	15.4	23.2

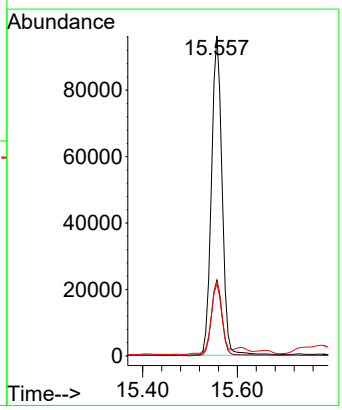


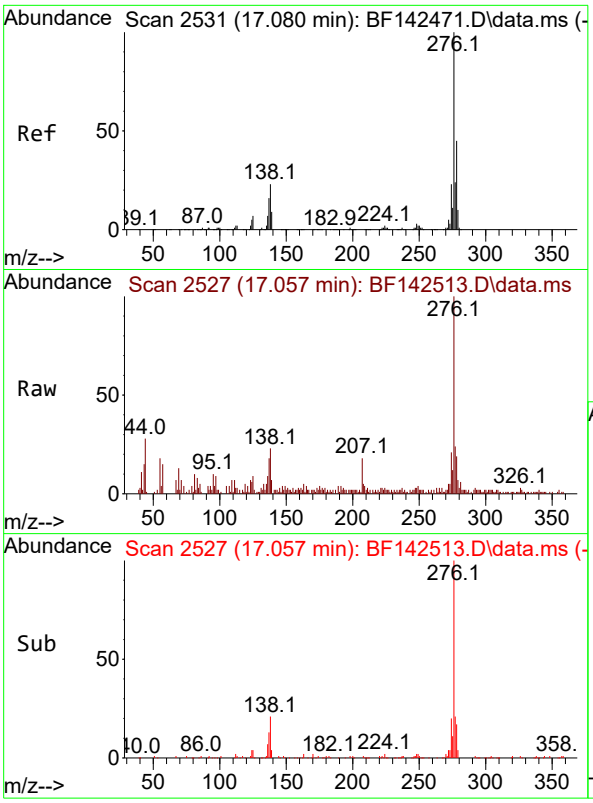


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.557 min Scan# 2272
Delta R.T. -0.012 min
Lab File: BF142513.D
Acq: 22 May 2025 16:34

Tgt Ion:264 Resp: 150268

Ion	Ratio	Lower	Upper
264	100		
260	23.8	18.6	28.0
265	22.5	17.7	26.5



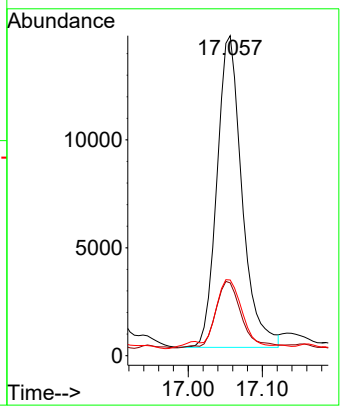


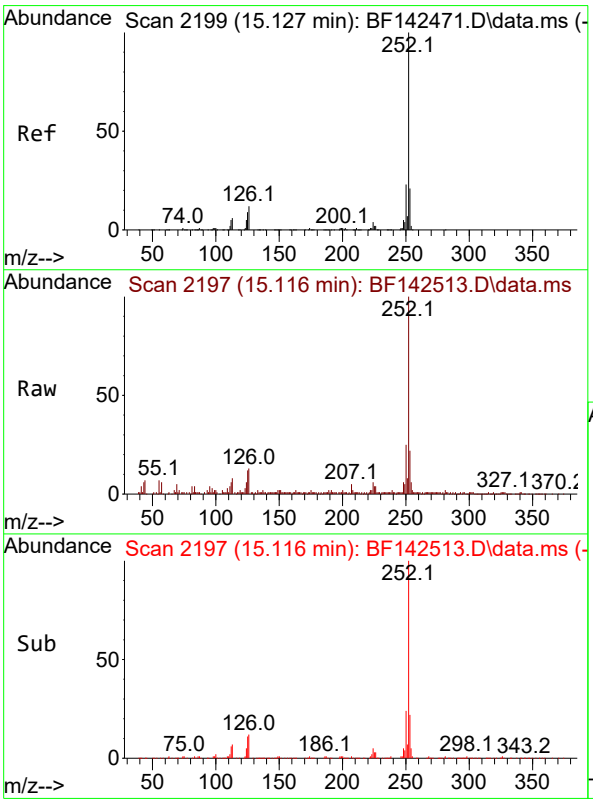
#87
Indeno(1,2,3-cd)pyrene
Concen: 3.005 ng
RT: 17.057 min Scan# 2
Delta R.T. -0.035 min
Lab File: BF142513.D
Acq: 22 May 2025 16:34

Instrument :
BNA_F
ClientSampleId :
TP-12

Tgt Ion:276 Resp: 33902

Ion	Ratio	Lower	Upper
276	100		
138	22.1	19.9	29.9
277	25.0	20.2	30.2

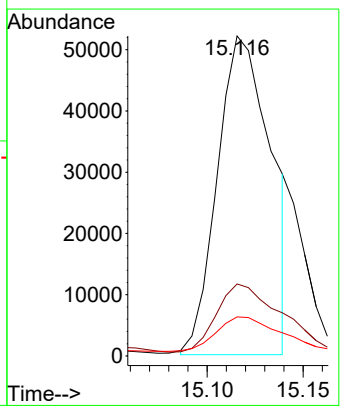


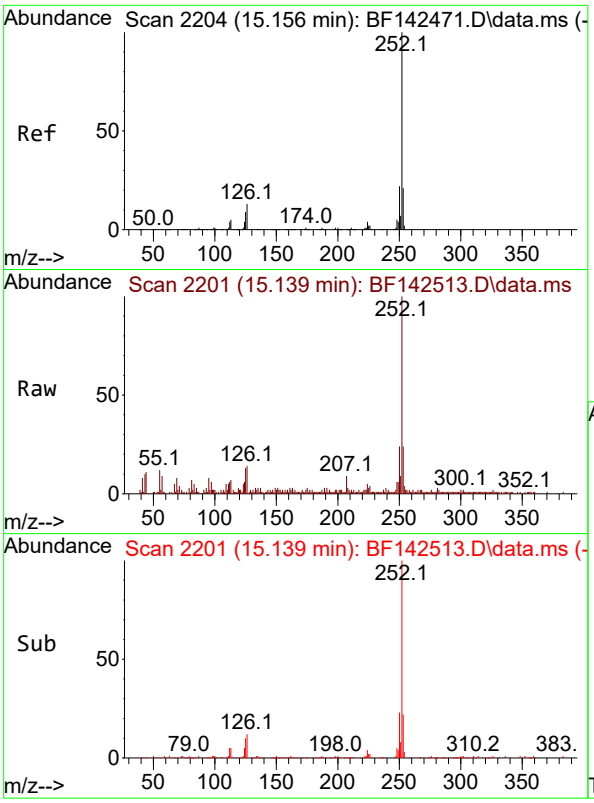


#88
Benzo(b)fluoranthene
Concen: 11.366 ng m
RT: 15.116 min Scan# 2197
Delta R.T. -0.012 min
Lab File: BF142513.D
Acq: 22 May 2025 16:34

Tgt Ion:252 Resp: 101084

Ion	Ratio	Lower	Upper
252	100		
253	22.5	17.0	25.4
125	12.2	7.4	11.0#



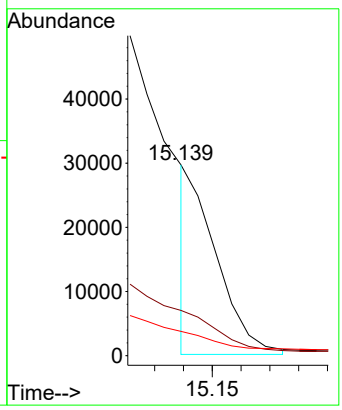


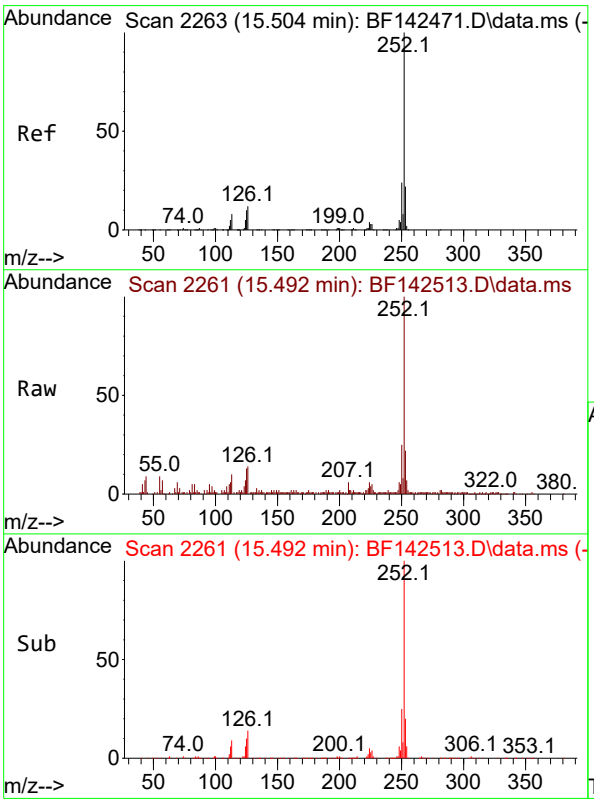
#89
Benzo(k)fluoranthene
Concen: 2.284 ng m
RT: 15.139 min Scan# 2
Delta R.T. -0.023 min
Lab File: BF142513.D
Acq: 22 May 2025 16:34

Instrument :
BNA_F
ClientSampleId :
TP-12

Tgt Ion:252 Resp: 19022

Ion	Ratio	Lower	Upper
252	100		
253	23.7	17.0	25.4
125	12.8	7.3	10.9#

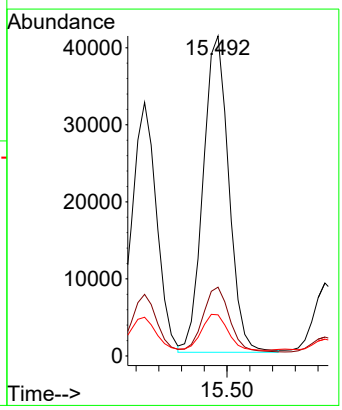


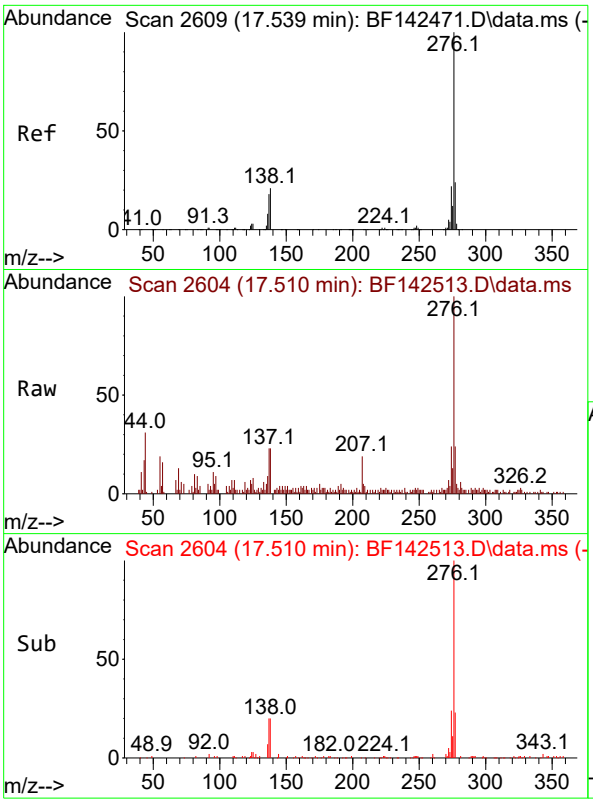


#90
Benzo(a)pyrene
Concen: 7.683 ng
RT: 15.492 min Scan# 2261
Delta R.T. -0.017 min
Lab File: BF142513.D
Acq: 22 May 2025 16:34

Tgt Ion:252 Resp: 64411

Ion	Ratio	Lower	Upper
252	100		
253	21.5	17.4	26.0
125	12.8	7.9	11.9#



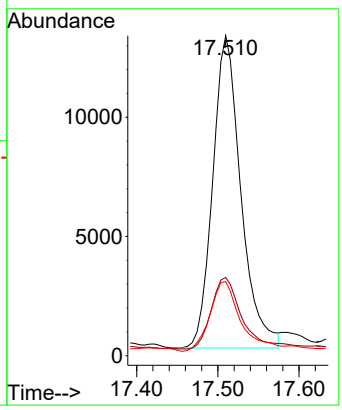


#92
Benzo(g,h,i)perylene
Concen: 3.451 ng
RT: 17.510 min Scan# 2
Delta R.T. -0.047 min
Lab File: BF142513.D
Acq: 22 May 2025 16:34

Instrument :
BNA_F
ClientSampleId :
TP-12

Tgt Ion:276 Resp: 31581

Ion	Ratio	Lower	Upper
276	100		
277	24.5	19.2	28.8
138	23.1	16.8	25.2



Sample Results: **BF142513.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052225\
Data File : BF142513.D
Acq On : 22 May 2025 16:34
Operator : RC/JU
Sample : Q2074-01
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-12

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: BF142513.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	122047	186220	10.91%	1.076%
2	5.510	558	564	570	rBV	1278301	1706343	100.00%	9.855%
3	6.516	729	735	747	rBV	1246315	1667011	97.69%	9.628%
4	6.898	795	800	805	rVB	482327	590540	34.61%	3.411%
5	7.457	884	895	900	rBV	780974	1016487	59.57%	5.871%
6	7.540	904	909	913	rVB3	19066	30183	1.77%	0.174%
7	7.598	913	919	922	rBV2	13276	23363	1.37%	0.135%
8	7.675	929	932	935	rBV2	15718	19570	1.15%	0.113%
9	7.710	935	938	944	rVB3	32759	45973	2.69%	0.266%
10	7.775	945	949	953	rBV2	11517	20156	1.18%	0.116%
11	7.822	953	957	960	rVB3	22258	24991	1.46%	0.144%
12	8.057	993	997	999	rBV2	12212	17379	1.02%	0.100%
13	8.128	1005	1009	1012	rBV4	12259	20059	1.18%	0.116%
14	8.181	1012	1018	1024	rVV	544072	716383	41.98%	4.138%
15	8.234	1024	1027	1031	rVV	56786	79646	4.67%	0.460%
16	8.269	1031	1033	1040	rVB5	20864	34790	2.04%	0.201%
17	8.387	1050	1053	1060	rVB5	22763	38851	2.28%	0.224%
18	8.469	1061	1067	1073	rBV7	25004	57572	3.37%	0.333%
19	8.522	1073	1076	1079	rBV3	16402	18411	1.08%	0.106%
20	8.598	1085	1089	1092	rBV	40133	55475	3.25%	0.320%
21	8.722	1106	1110	1114	rBV6	14756	23915	1.40%	0.138%
22	8.863	1131	1134	1138	rVB3	28170	35468	2.08%	0.205%
23	9.057	1163	1167	1170	rBV4	18265	32391	1.90%	0.187%
24	9.175	1184	1187	1188	rBV	17941	19422	1.14%	0.112%
25	9.198	1188	1191	1195	rVB2	28619	34971	2.05%	0.202%
26	9.251	1195	1200	1206	rVB	1147831	1437198	84.23%	8.301%
27	9.339	1210	1215	1219	rBV2	36976	62795	3.68%	0.363%
28	9.592	1255	1258	1263	rVB3	19453	27492	1.61%	0.159%
29	9.645	1263	1267	1274	rVB5	62840	95284	5.58%	0.550%
30	9.798	1289	1293	1297	rBV	72271	97953	5.74%	0.566%
31	9.845	1297	1301	1305	rVB2	34032	46516	2.73%	0.269%
32	9.934	1311	1316	1320	rVV	472277	585927	34.34%	3.384%
33	10.186	1356	1359	1366	rVB4	24185	42861	2.51%	0.248%
34	10.251	1367	1370	1373	rBV3	17080	23885	1.40%	0.138%
35	10.345	1382	1386	1391	rBV5	18019	29035	1.70%	0.168%
36	10.481	1406	1409	1416	rVB	28326	42798	2.51%	0.247%

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052225\
Data File : BF142513.D
Acq On : 22 May 2025 16:34
Operator : RC/JU
Sample : Q2074-01
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-12

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

37	10.645	1432	1437	1444	rVB	95708	126581	7.42%	0.731%
38	10.722	1445	1450	1462	rVB	692348	880159	51.58%	5.083%
39	10.845	1467	1471	1478	rVB	30591	48245	2.83%	0.279%
40	11.028	1498	1502	1505	rBV2	17919	30748	1.80%	0.178%
41	11.057	1505	1507	1513	rVV2	20654	28230	1.65%	0.163%
42	11.316	1547	1551	1557	rVB	26153	43971	2.58%	0.254%
43	11.422	1564	1569	1578	rBV2	468299	671496	39.35%	3.878%
44	11.498	1578	1582	1585	rVV	30449	39056	2.29%	0.226%
45	11.751	1622	1625	1632	rVB	27724	40220	2.36%	0.232%
46	11.833	1636	1639	1644	rVB	16082	21869	1.28%	0.126%
47	11.945	1650	1658	1663	rBV2	102327	245019	14.36%	1.415%
48	11.998	1664	1667	1669	rVV2	22367	29321	1.72%	0.169%
49	12.039	1669	1674	1682	rVB2	140723	285039	16.70%	1.646%
50	12.157	1691	1694	1697	rVB2	16704	18984	1.11%	0.110%
51	12.222	1701	1705	1708	rBV	36596	51840	3.04%	0.299%
52	12.369	1725	1730	1732	rBV2	22063	32524	1.91%	0.188%
53	12.398	1732	1735	1738	rBV	25826	31854	1.87%	0.184%
54	12.475	1744	1748	1751	rBV	83727	113076	6.63%	0.653%
55	12.510	1751	1754	1760	rVV2	56816	93277	5.47%	0.539%
56	12.563	1760	1763	1771	rVB3	36087	71664	4.20%	0.414%
57	12.639	1771	1776	1780	rBV	412256	531518	31.15%	3.070%
58	12.680	1780	1783	1788	rBV5	23206	39948	2.34%	0.231%
59	12.733	1789	1792	1795	rVB	28401	30023	1.76%	0.173%
60	12.792	1799	1802	1805	rBV2	18889	24558	1.44%	0.142%
61	12.869	1809	1815	1821	rVV	440594	616438	36.13%	3.560%
62	13.010	1833	1839	1846	rVB	1039370	1372874	80.46%	7.929%
63	13.086	1847	1852	1858	rBV2	61296	115416	6.76%	0.667%
64	13.192	1863	1870	1874	rVB	101994	192793	11.30%	1.114%
65	13.263	1878	1882	1885	rVV	68657	95804	5.61%	0.553%
66	13.298	1885	1888	1896	rVB2	83411	113673	6.66%	0.657%
67	13.392	1900	1904	1906	rVV	61493	81520	4.78%	0.471%
68	13.422	1906	1909	1913	rVB	52932	63408	3.72%	0.366%
69	13.904	1987	1991	2001	rVB5	64749	116094	6.80%	0.671%
70	14.063	2012	2018	2029	rBV2	487565	996343	58.39%	5.755%
71	15.116	2192	2197	2206	rBV	131612	311510	18.26%	1.799%
72	15.427	2246	2250	2256	rVB	81214	120763	7.08%	0.697%
73	15.492	2257	2261	2266	rVB	103937	159447	9.34%	0.921%
74	15.557	2267	2272	2284	rBV	244851	421422	24.70%	2.434%

Sum of corrected areas: 17314039

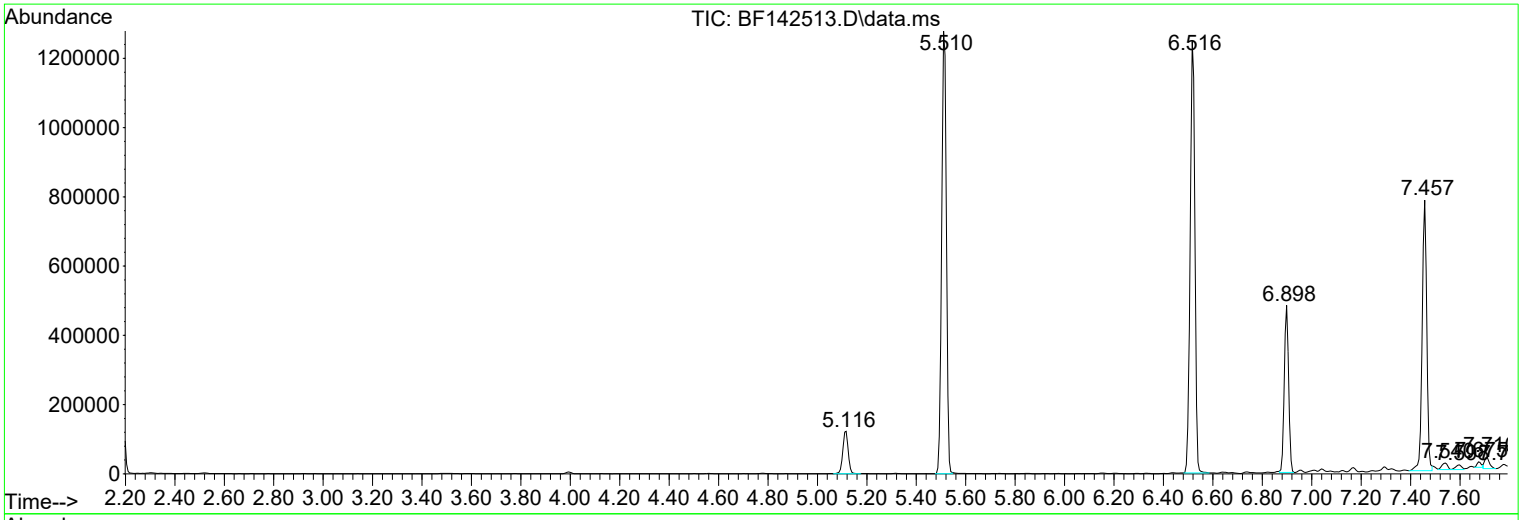
Instrument :
BNA_F
ClientSampleId :
TP-12

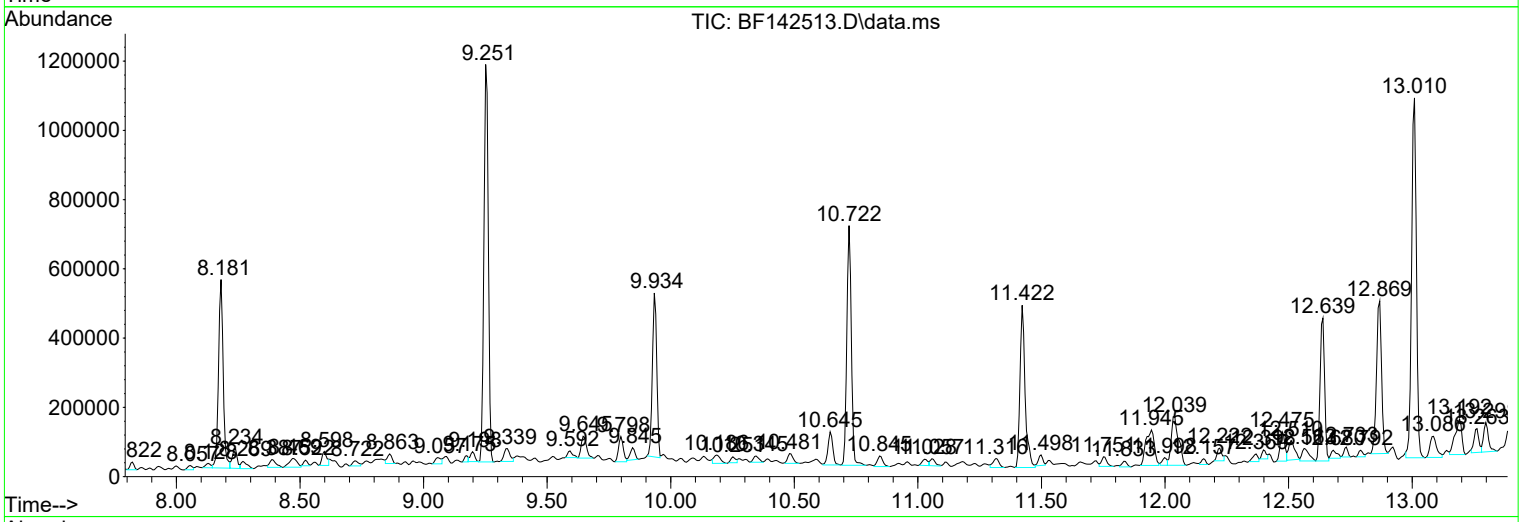
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052225\
Data File : BF142513.D
Acq On : 22 May 2025 16:34
Operator : RC/JU
Sample : Q2074-01
Misc :
ALS Vial : 13 Sample Multiplier: 1

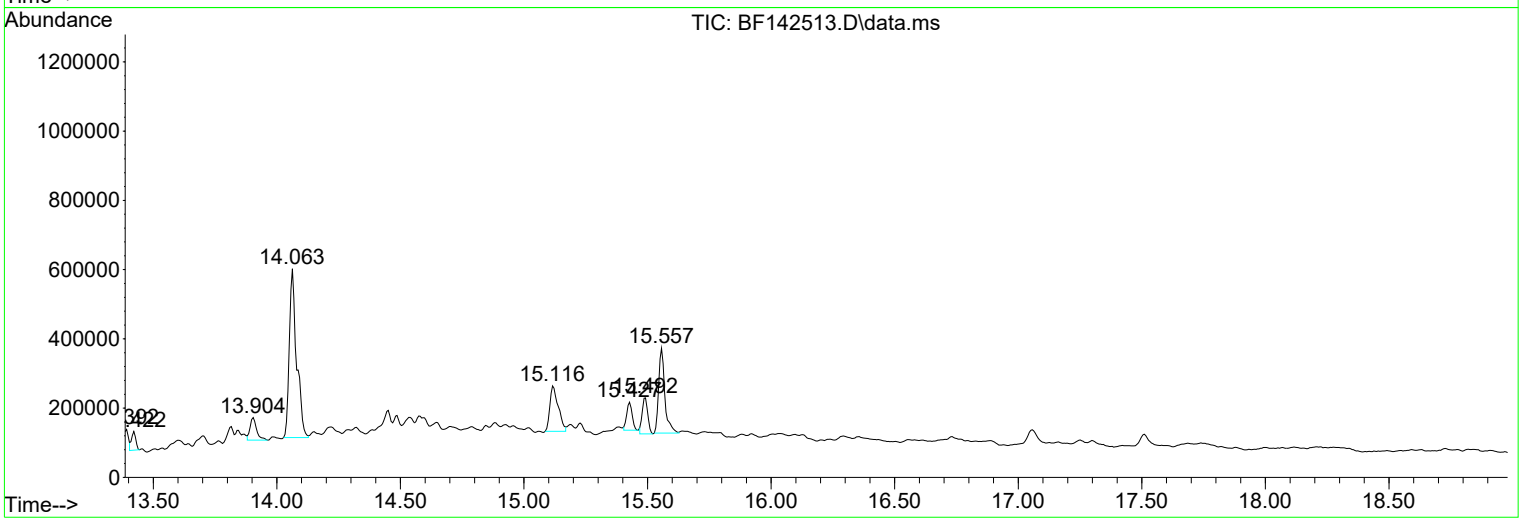
Instrument :
BNA_F
ClientSampleId :
TP-12

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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Acq On : 22 May 2025 16:34
Operator : RC/JU
Sample : Q2074-01
Misc :
ALS Vial : 13 Sample Multiplier: 1

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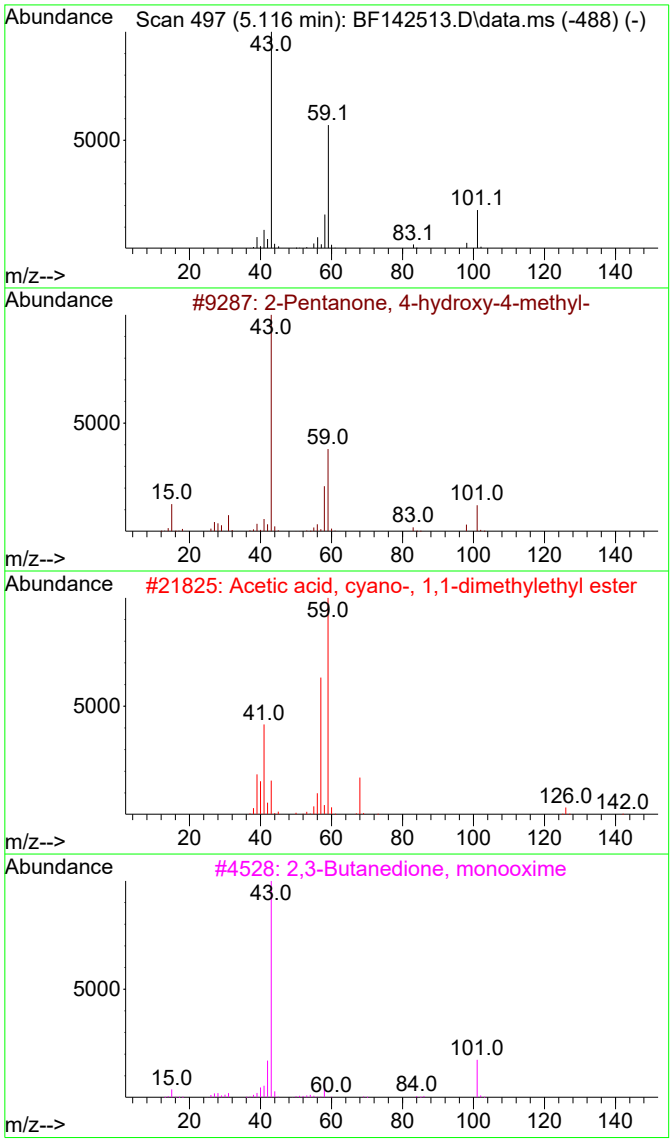
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

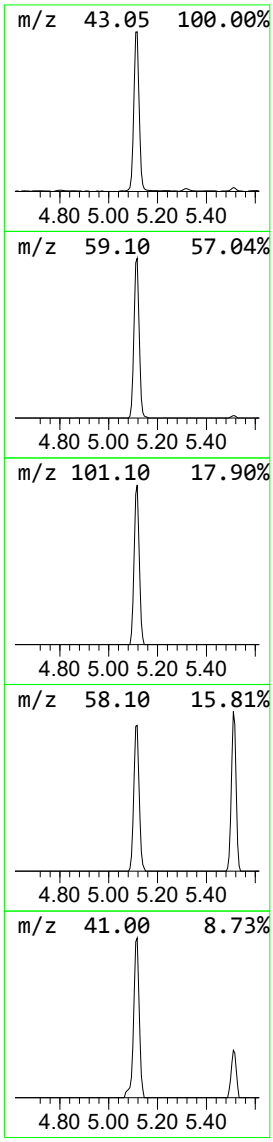
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.116	6.31 ng	186220	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	2,3-Butanedione, monooxime	101	C4H7NO2	000057-71-6	16
4	1-Propen-2-ol, acetate	100	C5H8O2	000108-22-5	12
5	Morpholine, 4-methyl-	101	C5H11NO	000109-02-4	9





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Instrument :
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ClientSampleId :
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

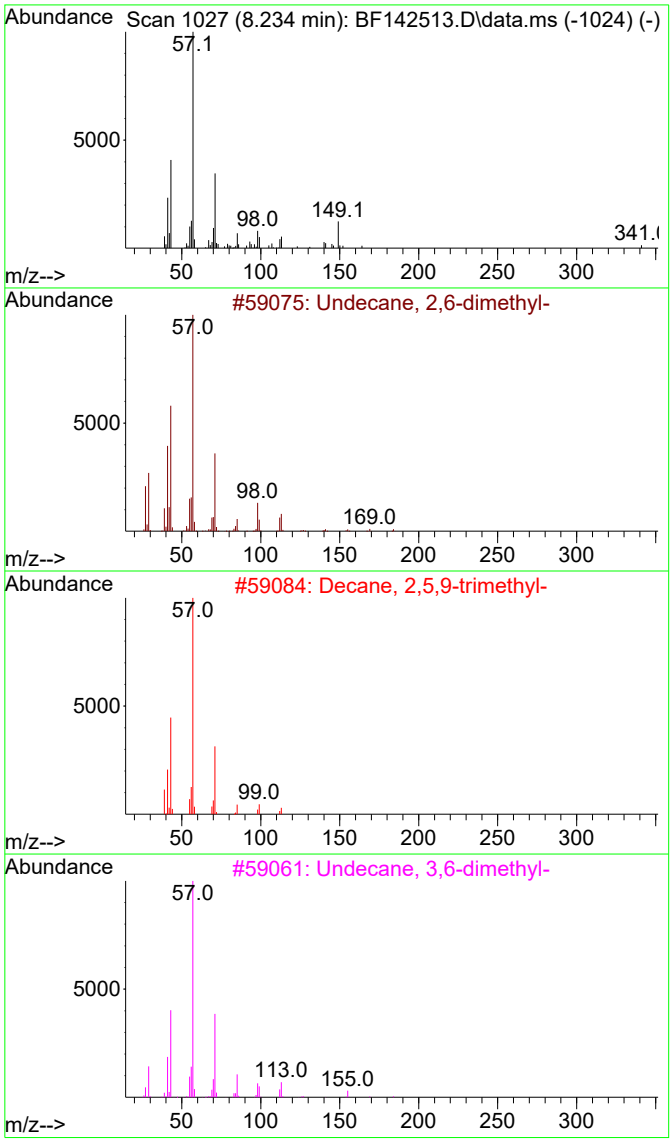
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

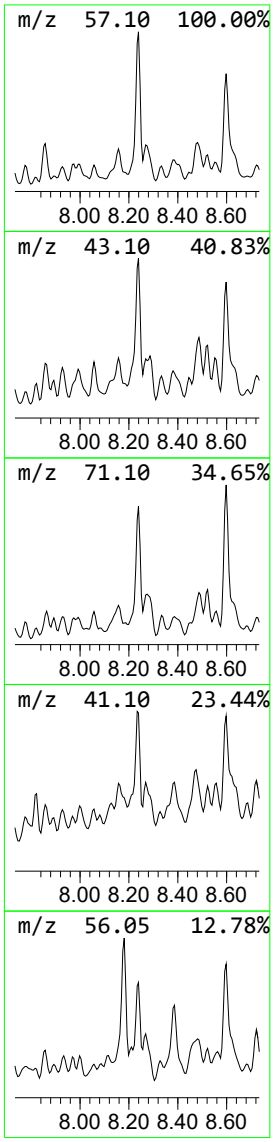
****

Peak Number 2 Undecane, 2,6-dimethyl- Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.234	2.22 ng	79646	Naphthalene-d8	8.181

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Undecane, 2,6-dimethyl-	184	C13H28	017301-23-4	72
2	Decane, 2,5,9-trimethyl-	184	C13H28	062108-22-9	64
3	Undecane, 3,6-dimethyl-	184	C13H28	017301-28-9	64
4	Sulfurous acid, butyl 2-ethylhex...	250	C12H26O3S	1000309-18-8	50
5	Eicosyl octyl ether	410	C28H58O	1000406-38-8	47





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Instrument :
BNA_F
ClientSampleId :
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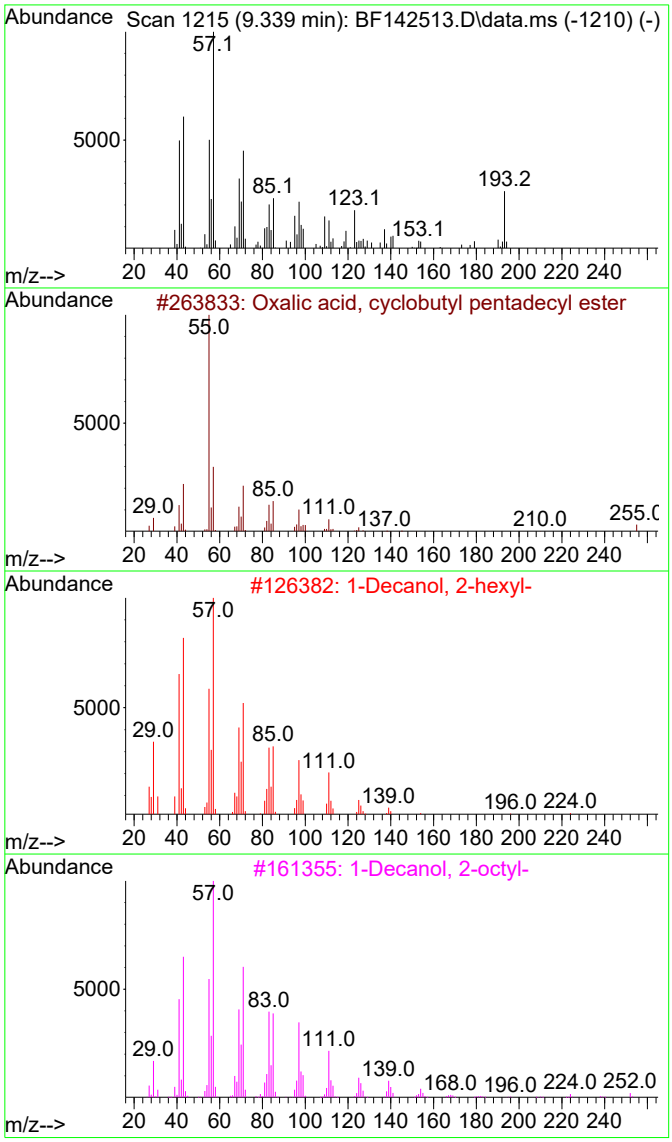
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

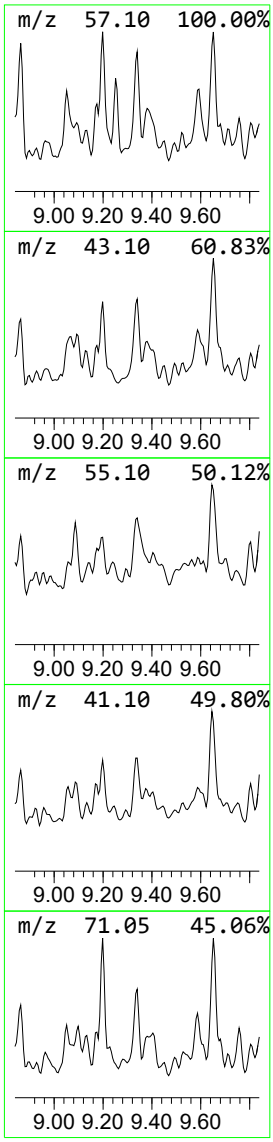
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 3 Oxalic acid, cyclobutyl pen... Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.339	2.14 ng	62795	Acenaphthene-d10	9.934

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Oxalic acid, cyclobutyl pentadec...	354	C21H38O4	1010309-70-5	58
2	1-Decanol, 2-hexyl-	242	C16H34O	002425-77-6	52
3	1-Decanol, 2-octyl-	270	C18H38O	045235-48-1	50
4	Octadecane, 1-bromo-	332	C18H37Br	000112-89-0	46
5	Pentadecane, 1-bromo-	290	C15H31Br	000629-72-1	46





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Misc :
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Instrument :
BNA_F
ClientSampleId :
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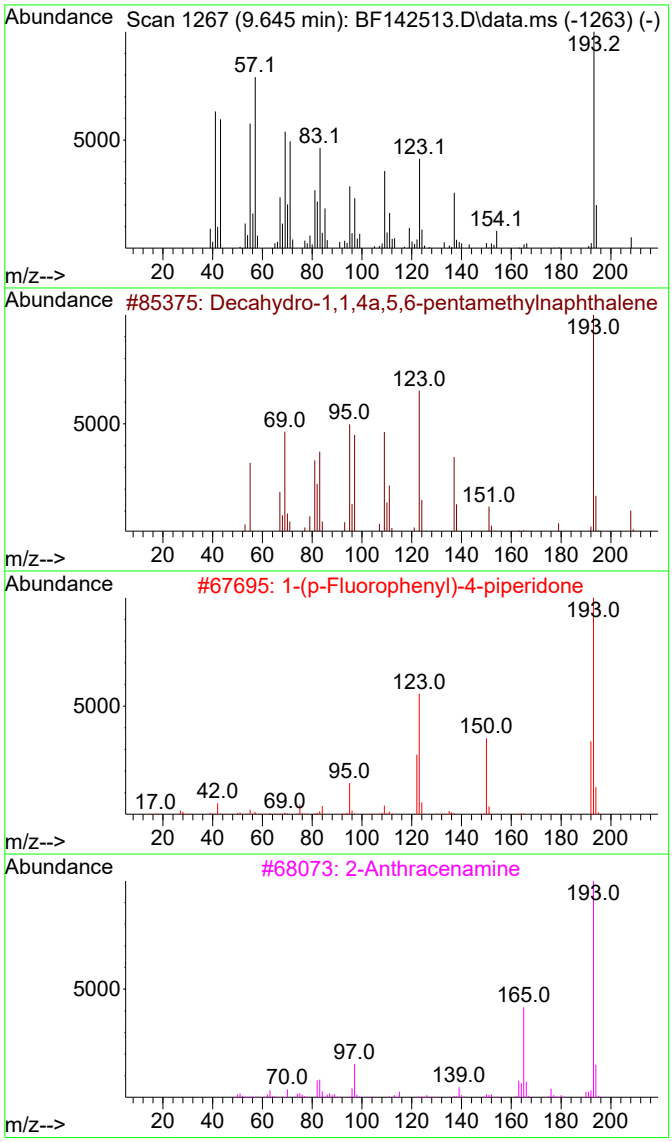
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

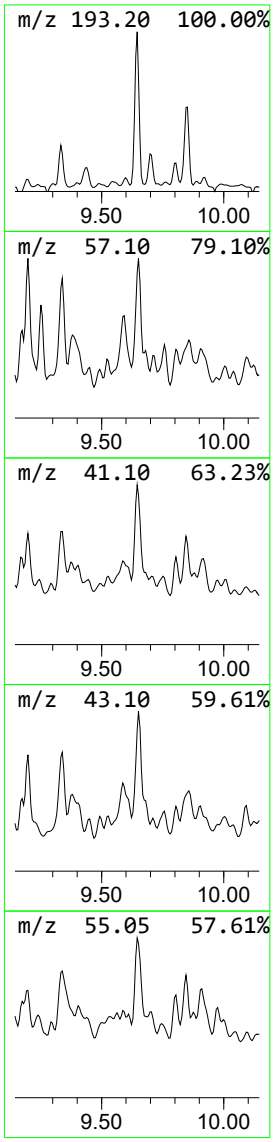
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 4 Decahydro-1,1,4a,5,6-pentam... Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.645	3.25 ng	95284	Acenaphthene-d10	9.934

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Decahydro-1,1,4a,5,6-pentamethyl...	208	C15H28	080655-44-3	60
2	1-(p-Fluorophenyl)-4-piperidone	193	C11H12FNO	1000238-56-7	38
3	2-Anthracenamine	193	C14H11N	000613-13-8	25
4	Trisiloxane, 1,1,3,3,5,5-hexamet...	208	C6H20O2Si3	001189-93-1	22
5	Iminostilbene	193	C14H11N	000256-96-2	22





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ALS Vial : 13 Sample Multiplier: 1

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ClientSampleId :
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

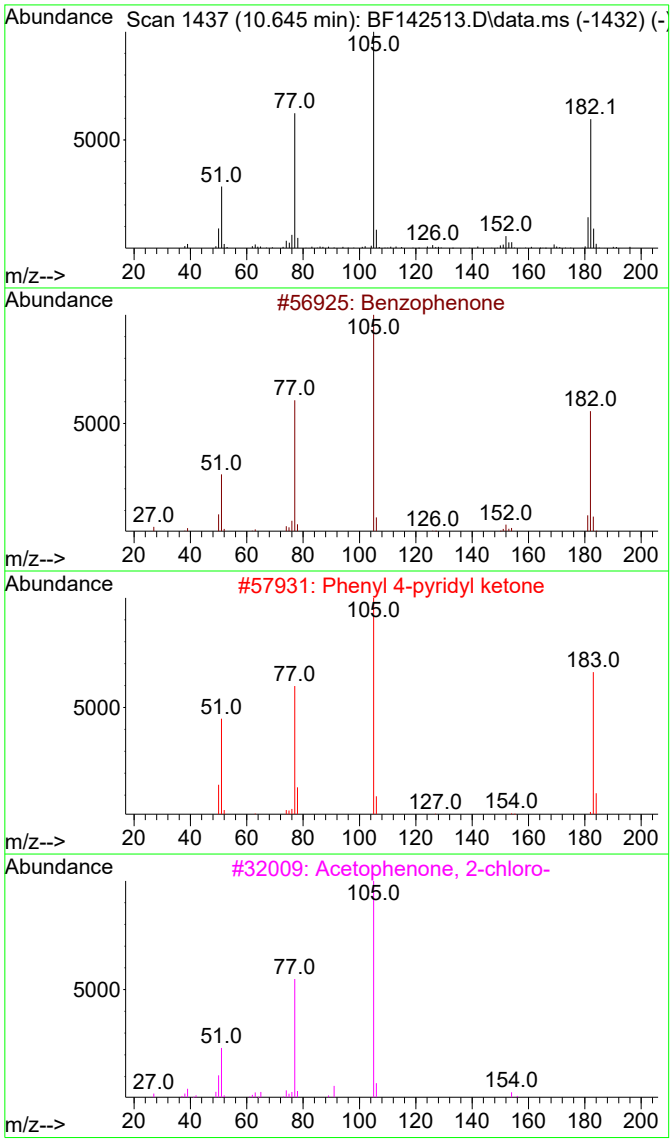
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

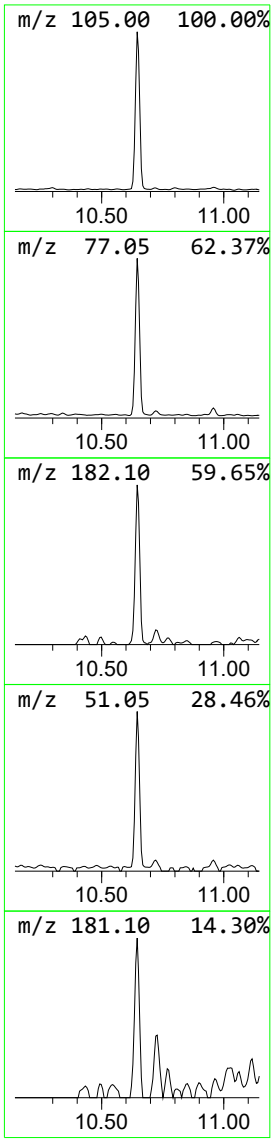
****

Peak Number 5 Benzophenone Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.645	4.32 ng	126581	Acenaphthene-d10	9.934

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzophenone	182	C13H10O	000119-61-9	96
2	Phenyl 4-pyridyl ketone	183	C12H9NO	014548-46-0	52
3	Acetophenone, 2-chloro-	154	C8H7ClO	000532-27-4	46
4	2-(2-Oxo-2-phenyl-ethyl)-malonon...	184	C11H8N2O	1000296-76-9	43
5	Vinyl benzoate	148	C9H8O2	000769-78-8	43





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ALS Vial : 13 Sample Multiplier: 1

Instrument :
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ClientSampleId :
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

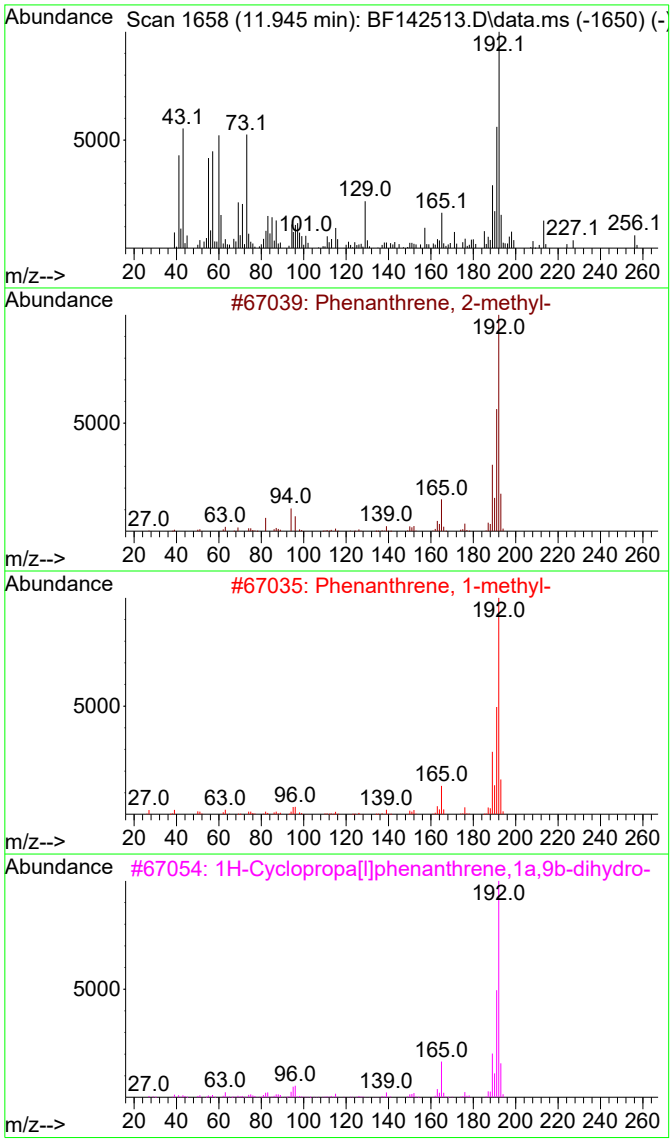
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

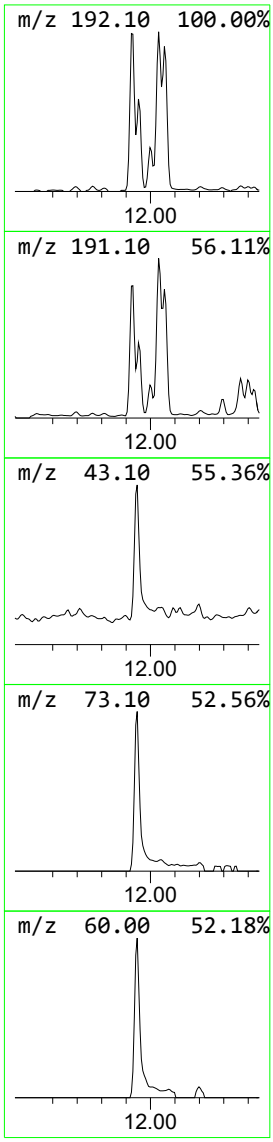
****

Peak Number 6 Phenanthrene, 2-methyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.945	7.30 ng	245019	Phenanthrene-d10	11.422

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	95
2	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	95
3	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	95
4	Anthracene, 2-methyl-	192	C15H12	000613-12-7	95
5	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	92





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Instrument :
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ClientSampleId :
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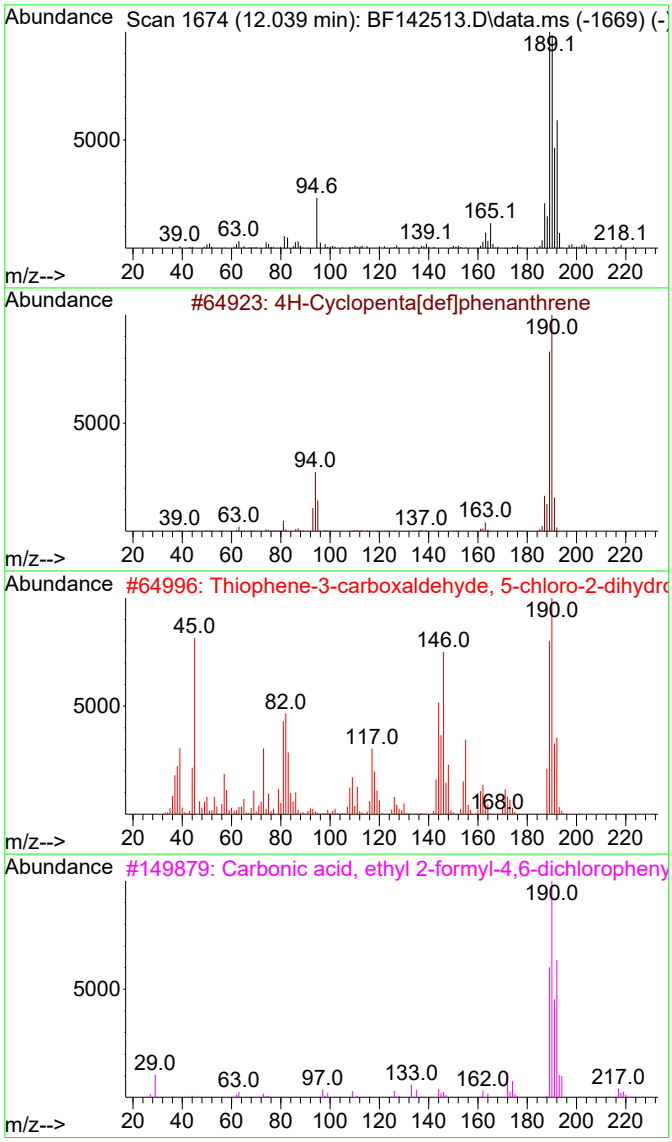
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

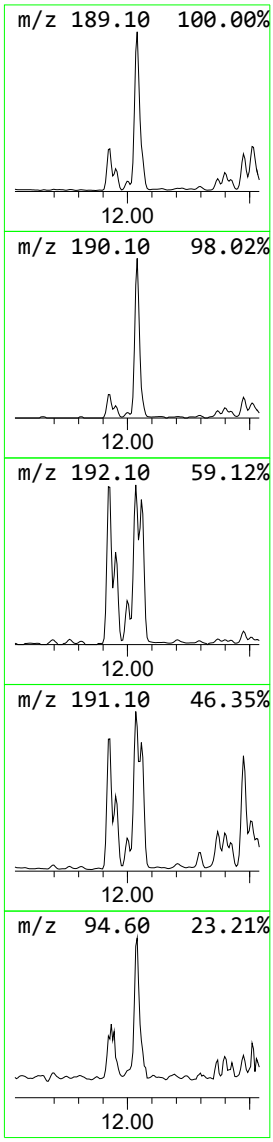
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 7 4H-Cyclopenta[def]phenanthrene Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.039	8.49 ng	285039	Phenanthrene-d10	11.422

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	70
2	Thiophene-3-carboxaldehyde, 5-ch...	190	C5H4BClO3S	036155-87-0	50
3	Carbonic acid, ethyl 2-formyl-4,...	262	C10H8Cl2O4	1000331-34-4	50
4	Benzaldehyde, 3,5-dichloro-2-hyd...	190	C7H4Cl2O2	000090-60-8	50
5	4,6-Dichloro-2-ethylpyrimidin-5-...	191	C6H7Cl2N3	006237-96-3	43





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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

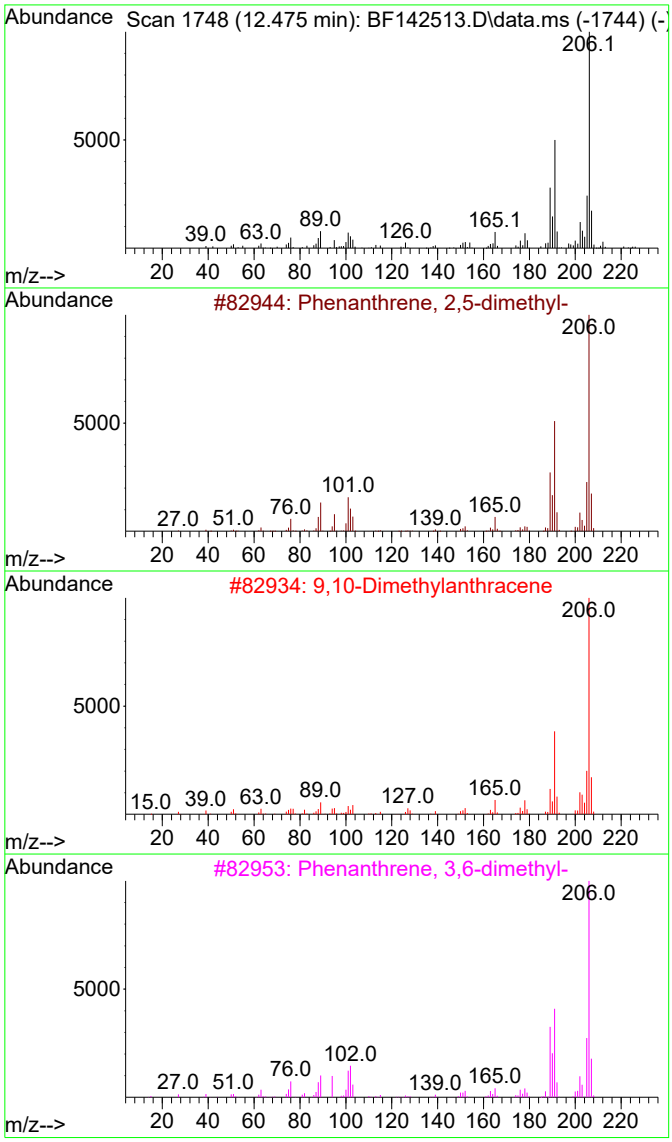
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

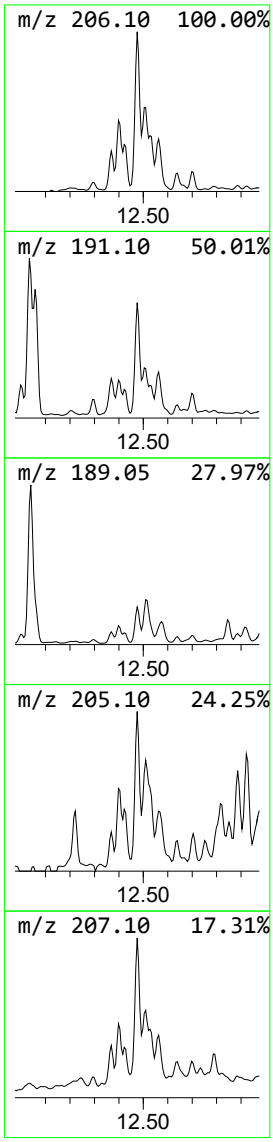
****

Peak Number 8 Phenanthrene, 2,5-dimethyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.475	3.37 ng	113076	Phenanthrene-d10	11.422

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	97
2	9,10-Dimethylanthracene	206	C16H14	000781-43-1	96
3	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	93
4	1,3-Diphenyl-3-methylcyclopropene	206	C16H14	086544-79-8	90
5	1H-Indene, 2-methyl-3-phenyl-	206	C16H14	035099-60-6	90





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ClientSampleId :
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
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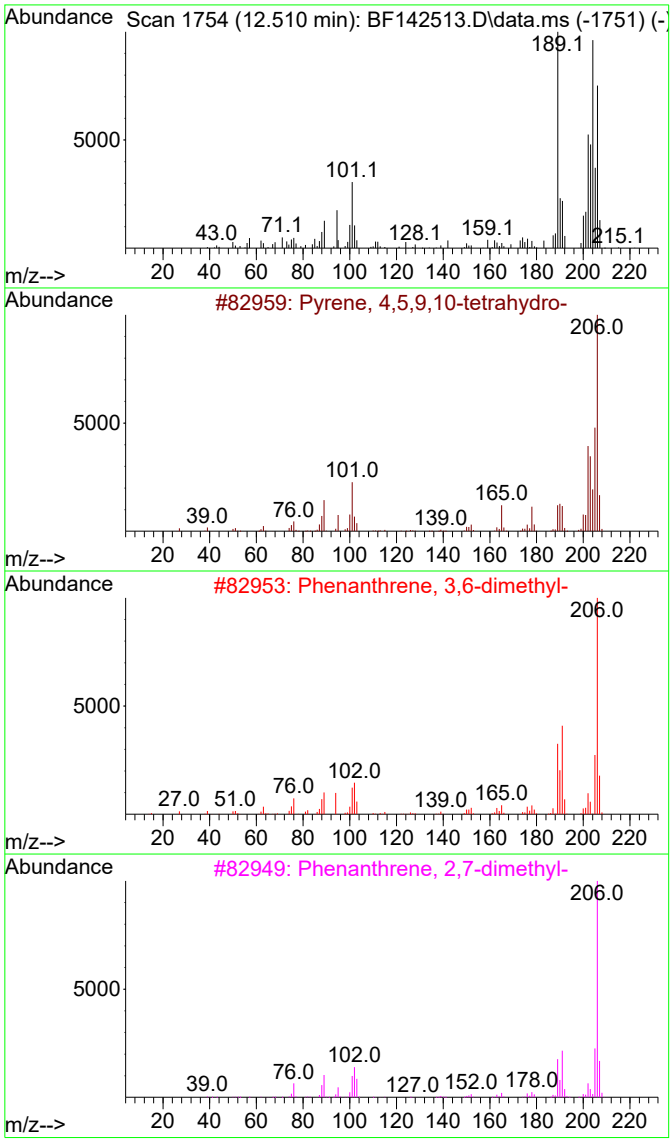
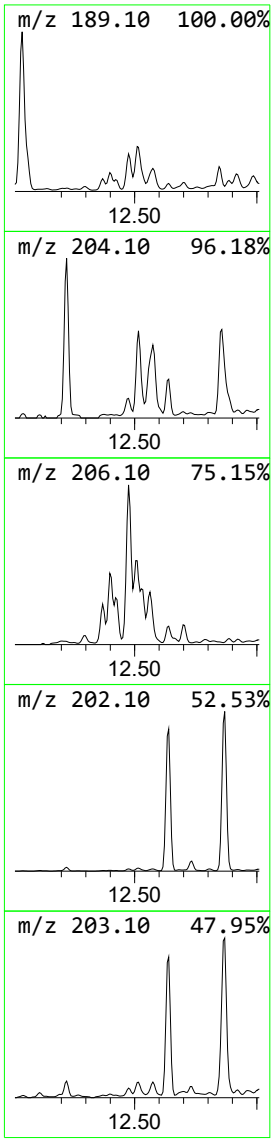
****

Peak Number 9 unknown12.510 Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.510	2.78 ng	93277	Phenanthrene-d10	11.422

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 4,5,9,10-tetrahydro-	206	C16H14	000781-17-9	42
2	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	38
3	Phenanthrene, 2,7-dimethyl-	206	C16H14	001576-69-8	38
4	Indeno[2,1-a]indene, 5,10-dihydro-	204	C16H12	006543-29-9	30
5	1,2,4,8-Tetramethylbicyclo[6.3.0...	204	C15H24	137235-51-9	30





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TIC Library : C:\Database\NIST20.L
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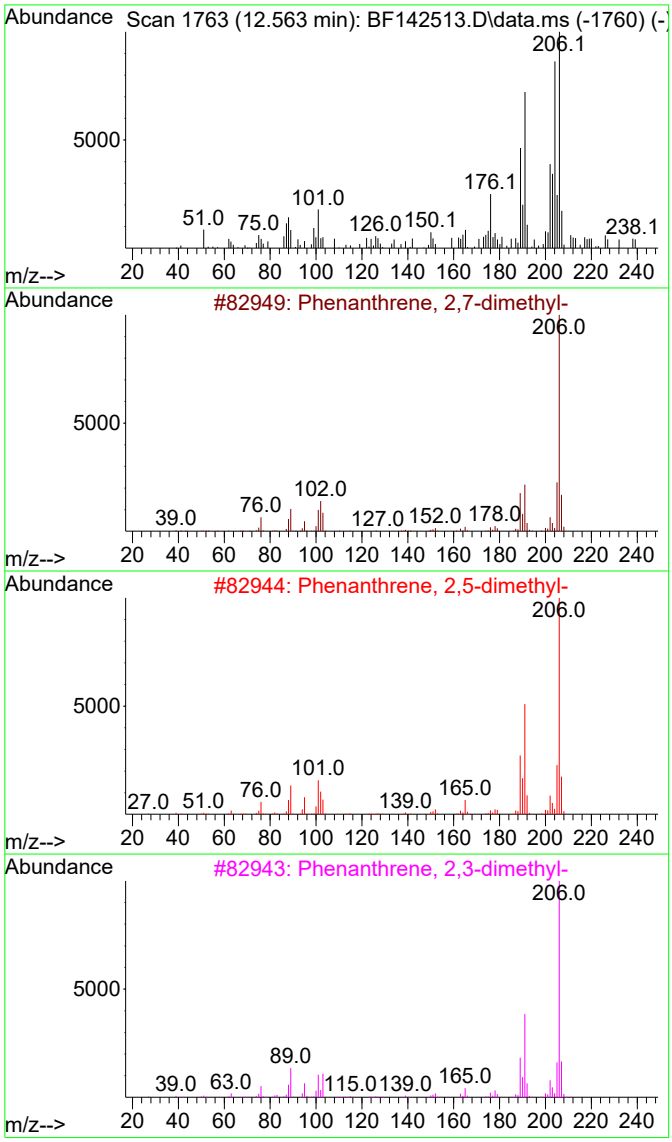
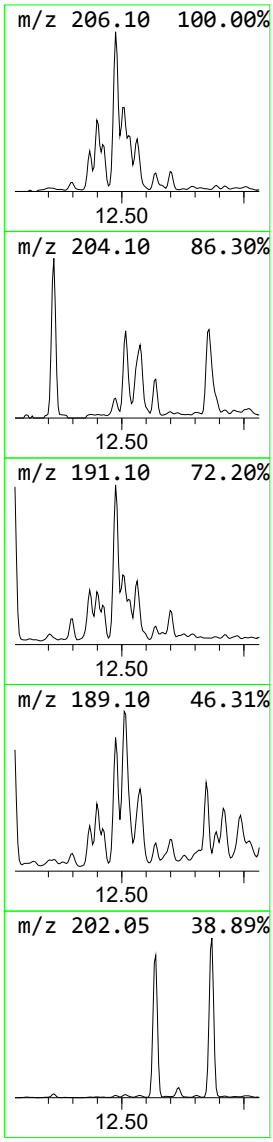
****

Peak Number 10 Phenanthrene, 2,7-dimethyl- Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.563	2.13 ng	71664	Phenanthrene-d10	11.422

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2,7-dimethyl-	206	C16H14	001576-69-8	70
2	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	64
3	Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	55
4	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	55
5	Anthracene, 2-ethyl-	206	C16H14	052251-71-5	50





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ALS Vial : 13 Sample Multiplier: 1

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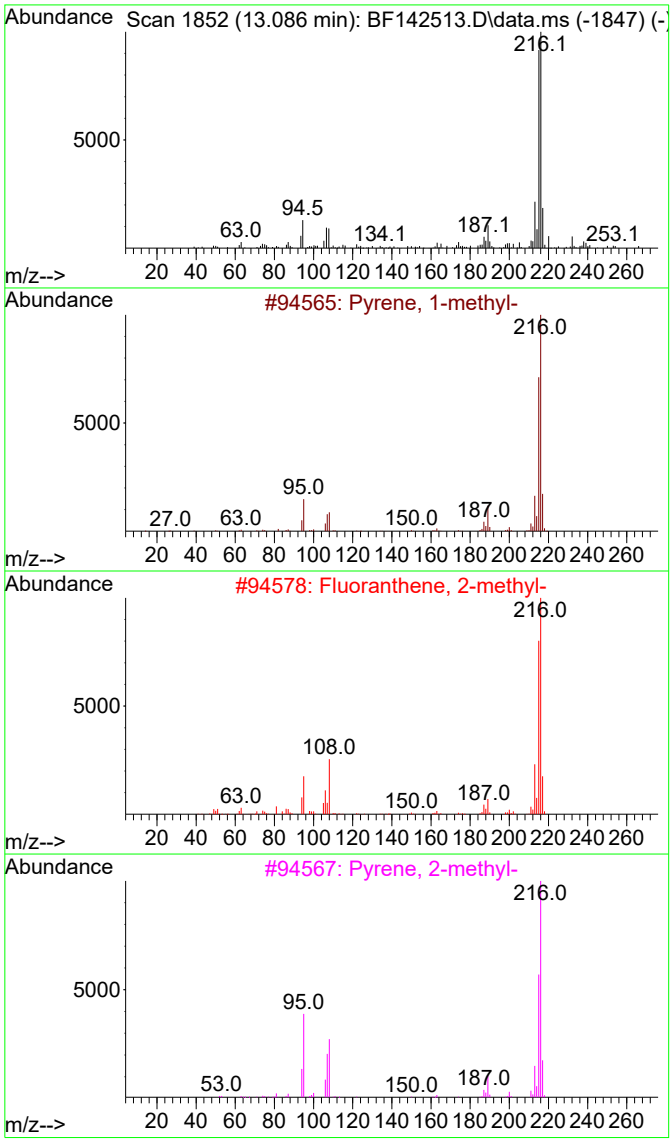
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

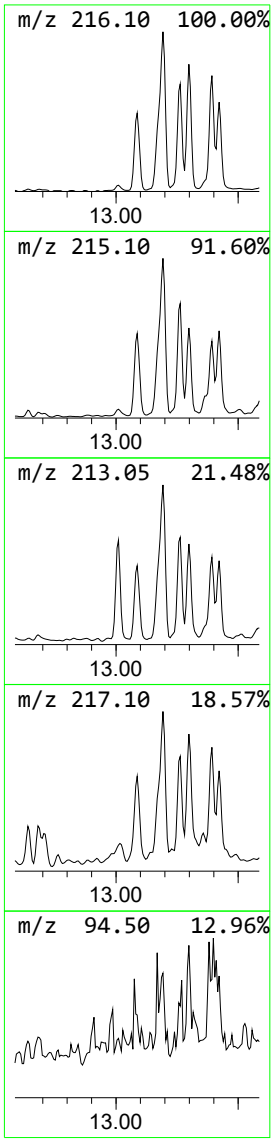
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 11 Pyrene, 1-methyl- Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.086	2.32 ng	115416	Chrysene-d12	14.063

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 1-methyl-	216	C17H12	002381-21-7	96
2	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	93
3	Pyrene, 2-methyl-	216	C17H12	003442-78-2	92
4	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	91
5	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	87





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052225\
Data File : BF142513.D
Acq On : 22 May 2025 16:34
Operator : RC/JU
Sample : Q2074-01
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-12

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

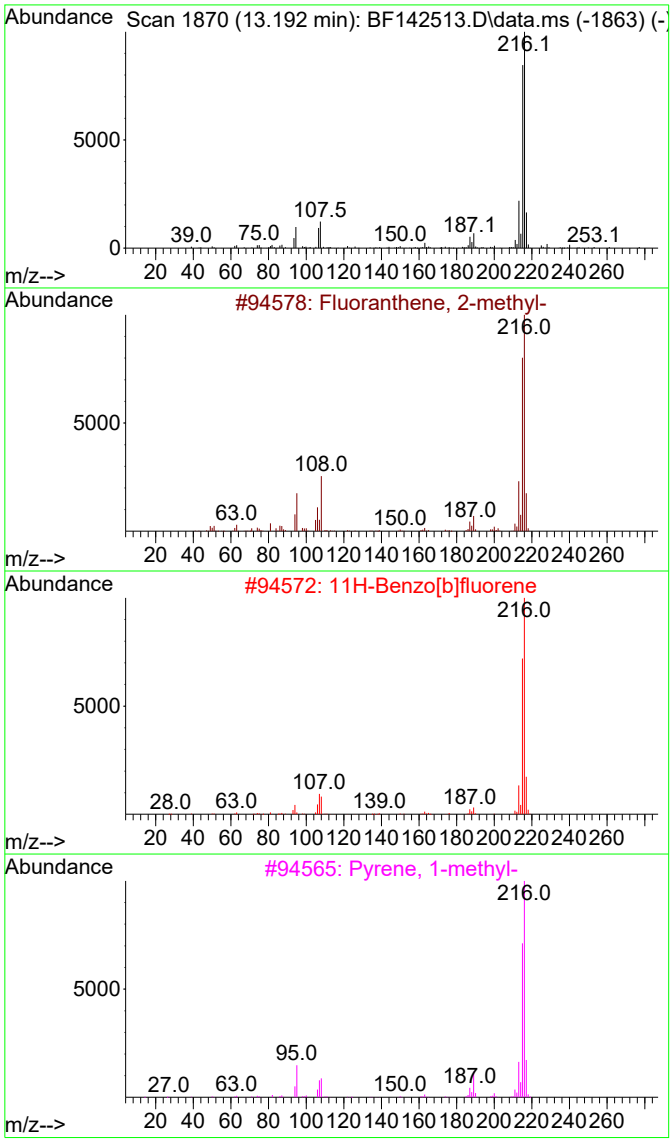
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

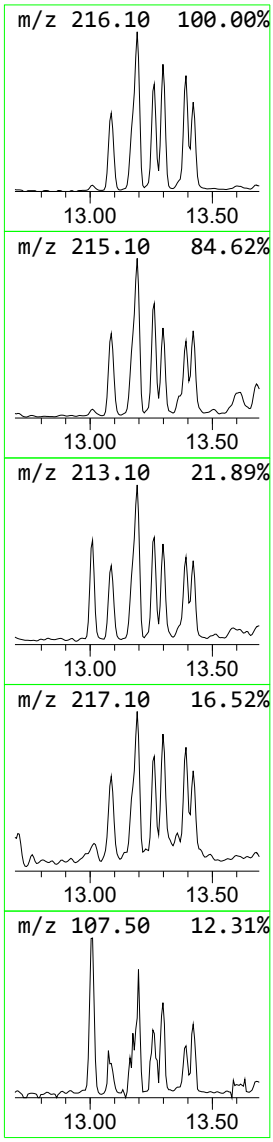
****

Peak Number 12 Fluoranthene, 2-methyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.192	3.87 ng	192793	Chrysene-d12	14.063

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	95
2	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	94
3	Pyrene, 1-methyl-	216	C17H12	002381-21-7	93
4	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	91
5	7H-Benzo[c]fluorene	216	C17H12	000205-12-9	81





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052225\
Data File : BF142513.D
Acq On : 22 May 2025 16:34
Operator : RC/JU
Sample : Q2074-01
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-12

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

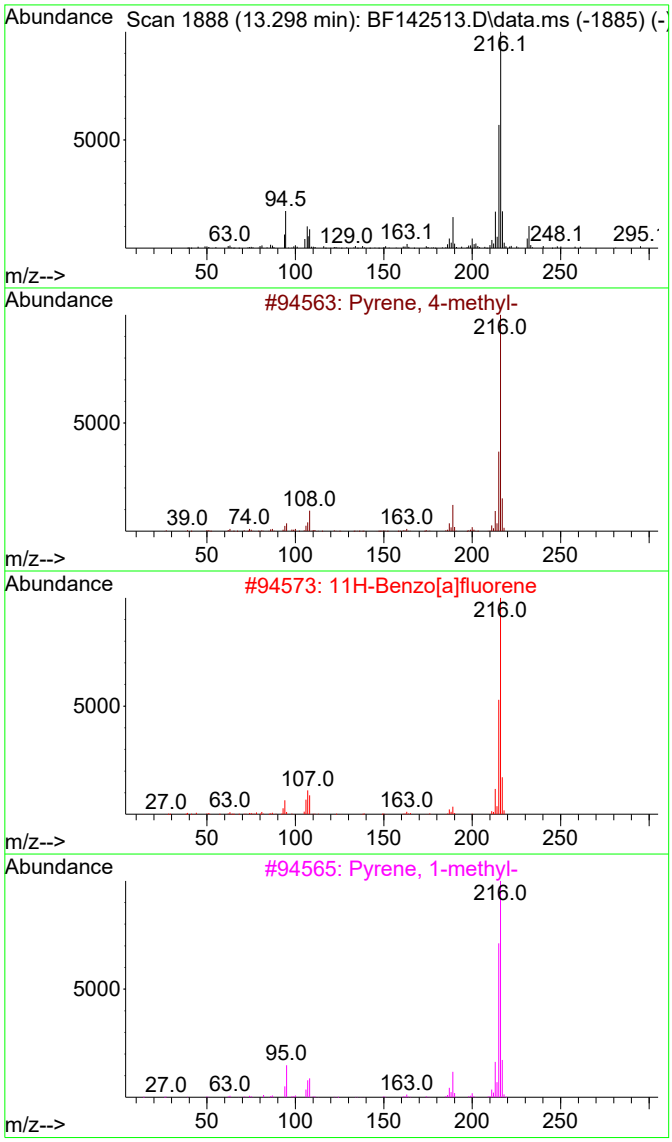
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

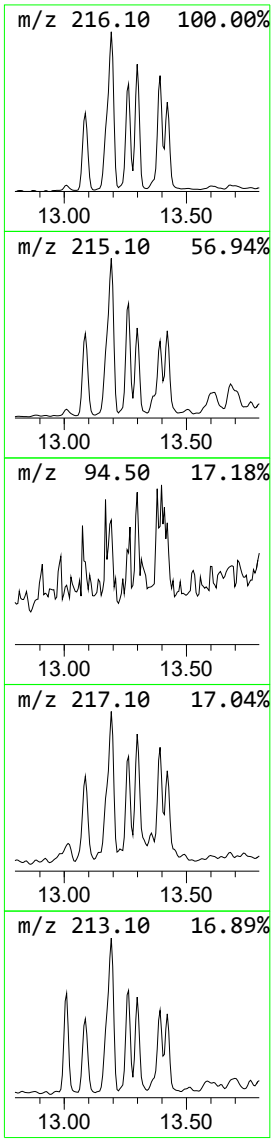
****

Peak Number 13 Pyrene, 4-methyl- Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.298	2.28 ng	113673	Chrysene-d12	14.063

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 4-methyl-	216	C17H12	003353-12-6	95
2	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	94
3	Pyrene, 1-methyl-	216	C17H12	002381-21-7	94
4	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	93
5	Pyrene, 2-methyl-	216	C17H12	003442-78-2	93





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052225\
Data File : BF142513.D
Acq On : 22 May 2025 16:34
Operator : RC/JU
Sample : Q2074-01
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-12

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

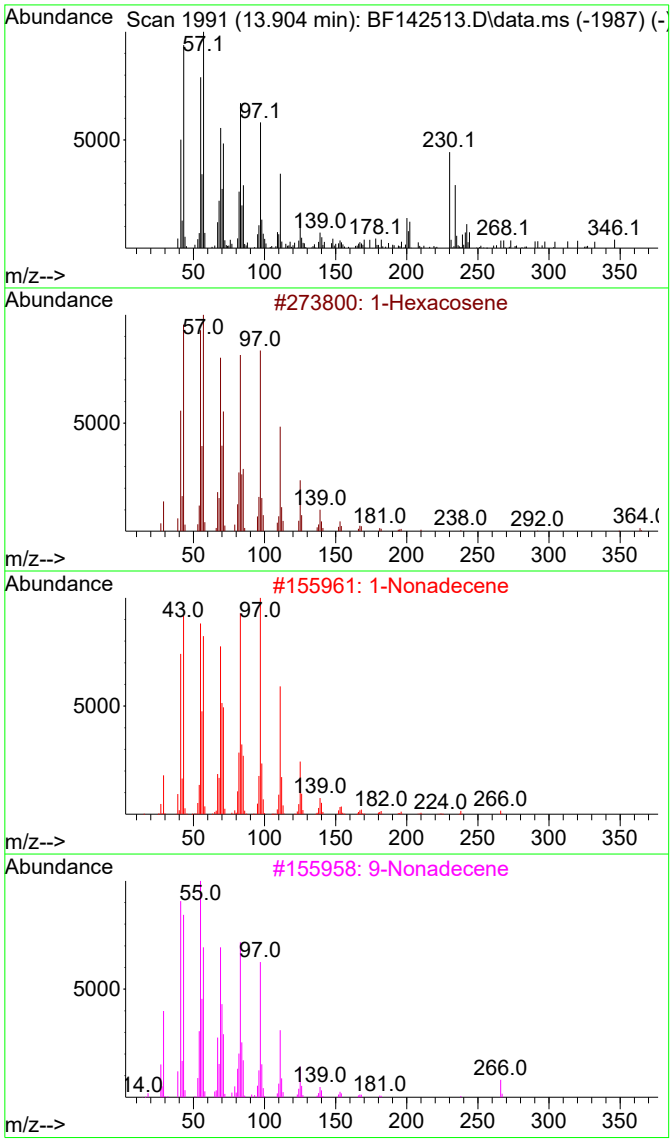
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

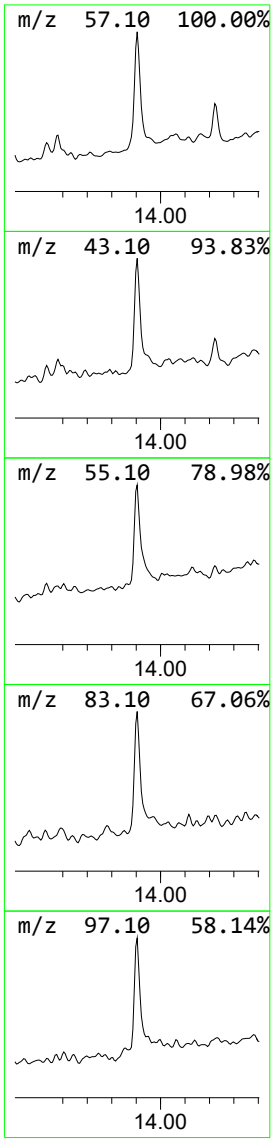
****

Peak Number 14 1-Hexacosene Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.904	2.33 ng	116094	Chrysene-d12	14.063

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Hexacosene	364	C26H52	018835-33-1	83
2	1-Nonadecene	266	C19H38	018435-45-5	78
3	9-Nonadecene	266	C19H38	031035-07-1	78
4	Nonadecyl pentafluoropropionate	430	C22H39F5O2	1000351-88-8	70
5	Pentadecafluorooctanoic acid, oc...	666	C26H37F15O2	1000406-04-8	70





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052225\
Data File : BF142513.D
Acq On : 22 May 2025 16:34
Operator : RC/JU
Sample : Q2074-01
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-12

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

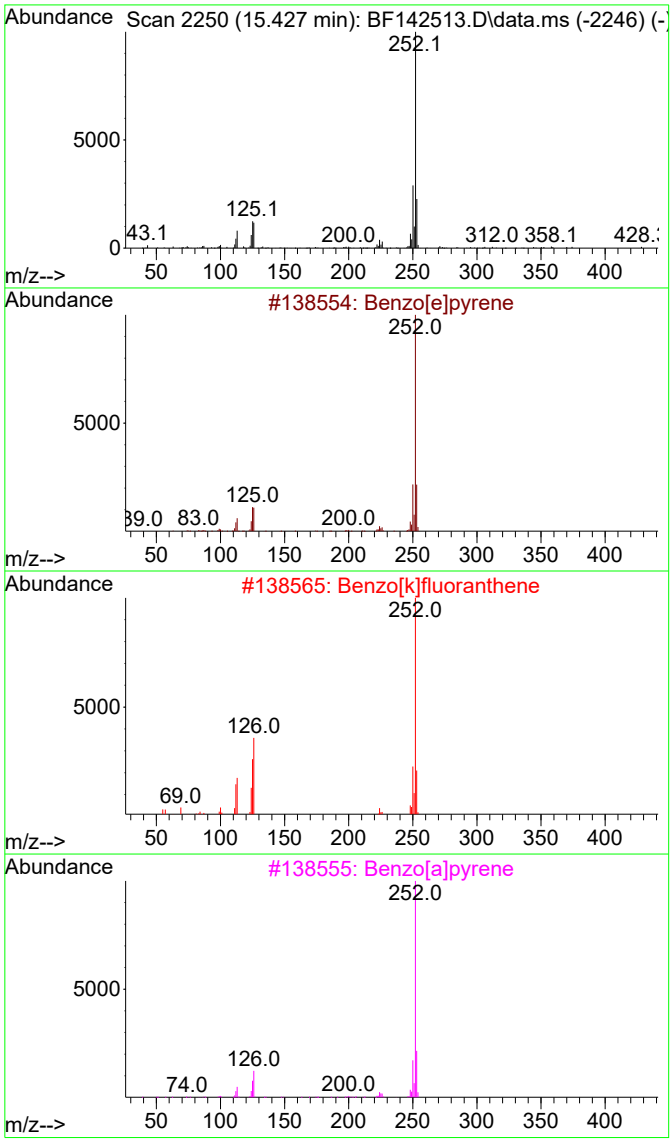
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

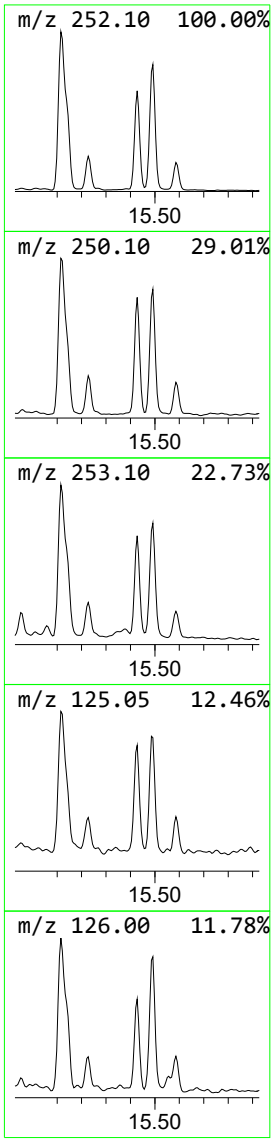
****

Peak Number 15 Benzo[e]pyrene Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.427	5.73 ng	120763	Perylene-d12	15.557

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[e]pyrene	252	C20H12	000192-97-2	97
2	Benzo[k]fluoranthene	252	C20H12	000207-08-9	95
3	Benzo[a]pyrene	252	C20H12	000050-32-8	93
4	Benzo[b]fluoranthene	252	C20H12	000205-99-2	91
5	Perylene	252	C20H12	000198-55-0	81





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052225\
Data File : BF142513.D
Acq On : 22 May 2025 16:34
Operator : RC/JU
Sample : Q2074-01
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-12

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	6.3	ng	186220	1	6.898	590540	20.0
Undecane, 2,6-d...	8.234	2.2	ng	79646	2	8.181	716383	20.0
Oxalic acid, cy...	9.339	2.1	ng	62795	3	9.934	585927	20.0
Decahydro-1,1,4...	9.645	3.3	ng	95284	3	9.934	585927	20.0
Benzophenone	10.645	4.3	ng	126581	3	9.934	585927	20.0
Phenanthrene, 2...	11.945	7.3	ng	245019	4	11.422	671496	20.0
4H-Cyclopenta[d...	12.039	8.5	ng	285039	4	11.422	671496	20.0
Phenanthrene, 2...	12.475	3.4	ng	113076	4	11.422	671496	20.0
unknown12.510	12.510	2.8	ng	93277	4	11.422	671496	20.0
Phenanthrene, 2...	12.563	2.1	ng	71664	4	11.422	671496	20.0
Pyrene, 1-methyl-	13.086	2.3	ng	115416	5	14.063	996343	20.0
Fluoranthene, 2...	13.192	3.9	ng	192793	5	14.063	996343	20.0
Pyrene, 4-methyl-	13.298	2.3	ng	113673	5	14.063	996343	20.0
1-Hexacosene	13.904	2.3	ng	116094	5	14.063	996343	20.0
Benzo[e]pyrene	15.427	5.7	ng	120763	6	15.557	421422	20.0

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052125\
Data File : BF142481.D
Acq On : 21 May 2025 12:14
Operator : RC/JU
Sample : Q2074-02
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-7

Quant Time: May 21 12:42:10 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 20 16:26:47 2025
Response via : Initial Calibration

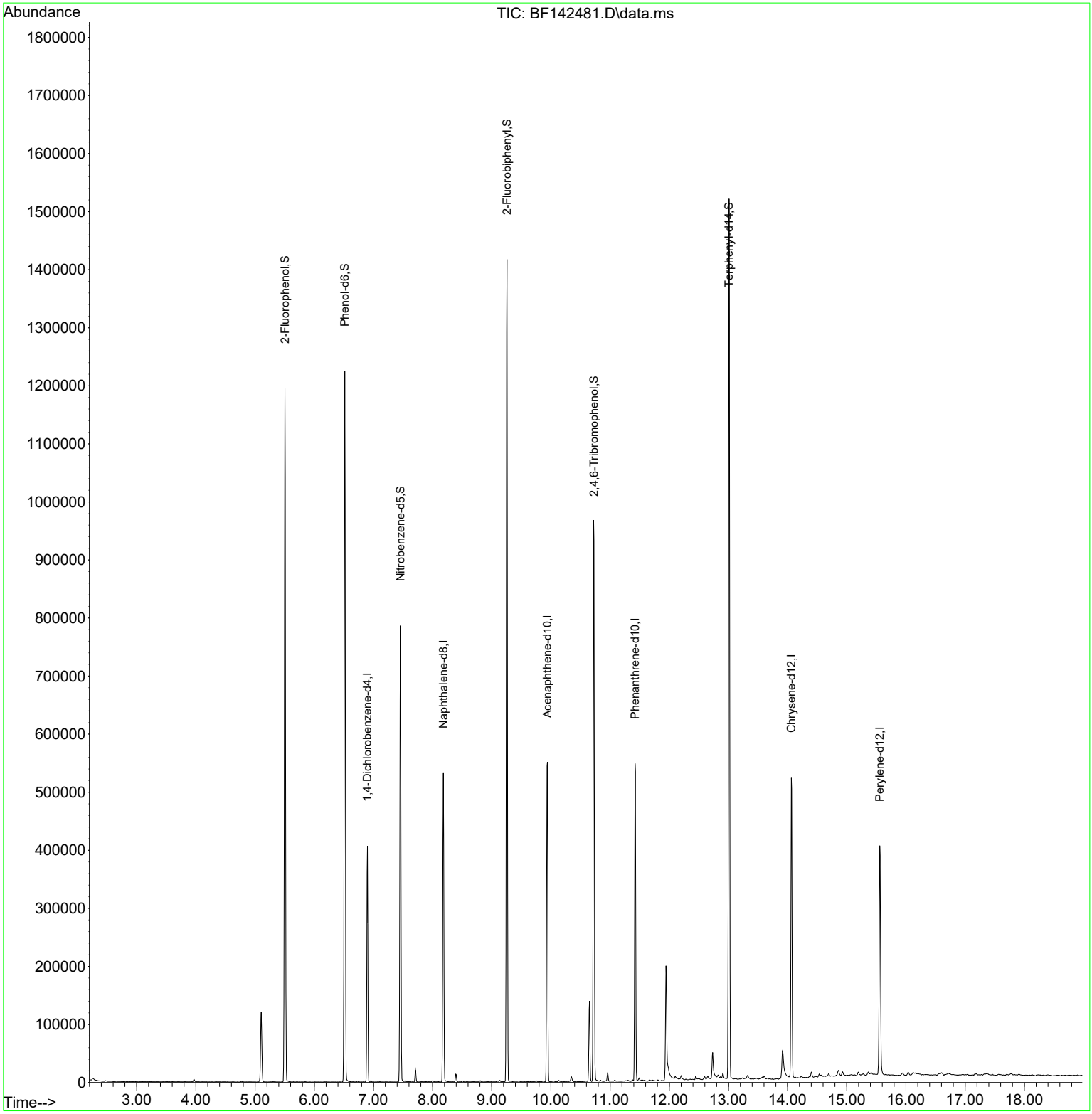
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.898	152	88091	20.000	ng	0.00
21) Naphthalene-d8	8.181	136	330115	20.000	ng	0.00
39) Acenaphthene-d10	9.939	164	169428	20.000	ng	0.00
64) Phenanthrene-d10	11.422	188	293973	20.000	ng	-0.01
76) Chrysene-d12	14.063	240	263519	20.000	ng	-0.01
86) Perylene-d12	15.557	264	238889	20.000	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.504	112	452174	86.479	ng	-0.01
7) Phenol-d6	6.516	99	564083	89.621	ng	-0.02
23) Nitrobenzene-d5	7.457	82	323927	53.507	ng	-0.02
42) 2,4,6-Tribromophenol	10.727	330	173761	92.405	ng	-0.01
45) 2-Fluorobiphenyl	9.257	172	630689	49.950	ng	-0.01
79) Terphenyl-d14	13.010	244	734064	38.067	ng	0.00
Target Compounds						Qvalue

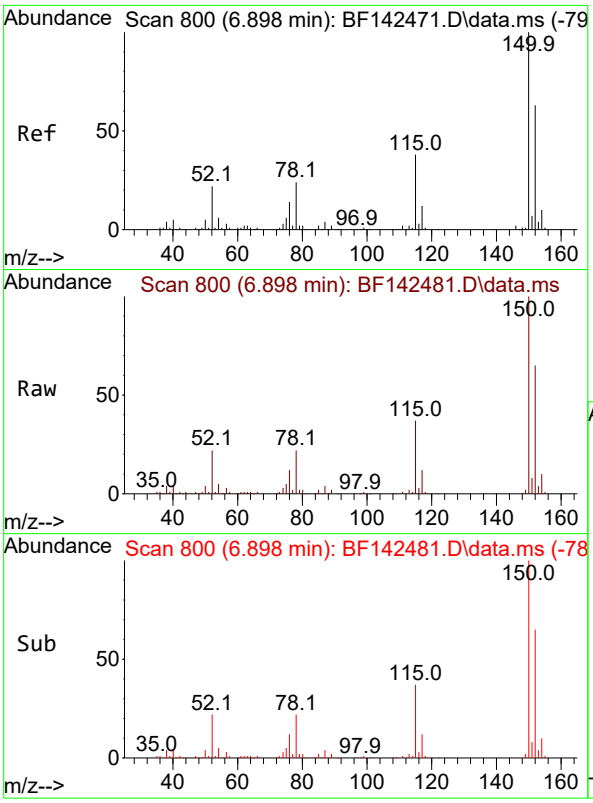
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052125\
Data File : BF142481.D
Acq On : 21 May 2025 12:14
Operator : RC/JU
Sample : Q2074-02
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-7

Quant Time: May 21 12:42:10 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 20 16:26:47 2025
Response via : Initial Calibration



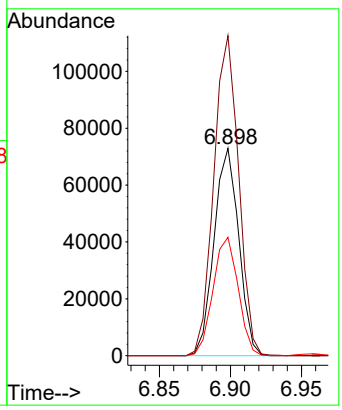


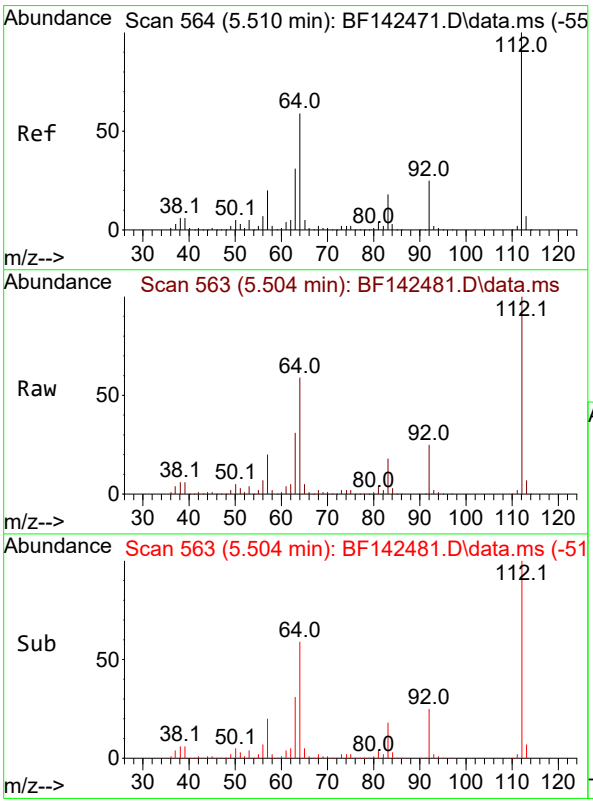
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.898 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF142481.D
Acq: 21 May 2025 12:14

Instrument :
BNA_F
ClientSampleId :
TP-7

Tgt Ion:152 Resp: 88091

Ion	Ratio	Lower	Upper
152	100		
150	154.4	128.2	192.4
115	57.1	48.3	72.5

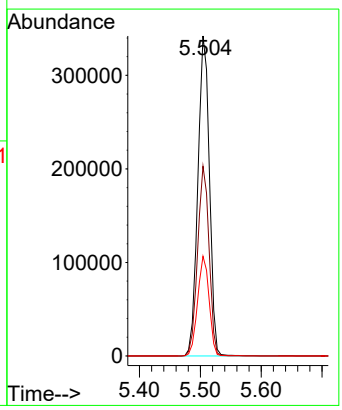


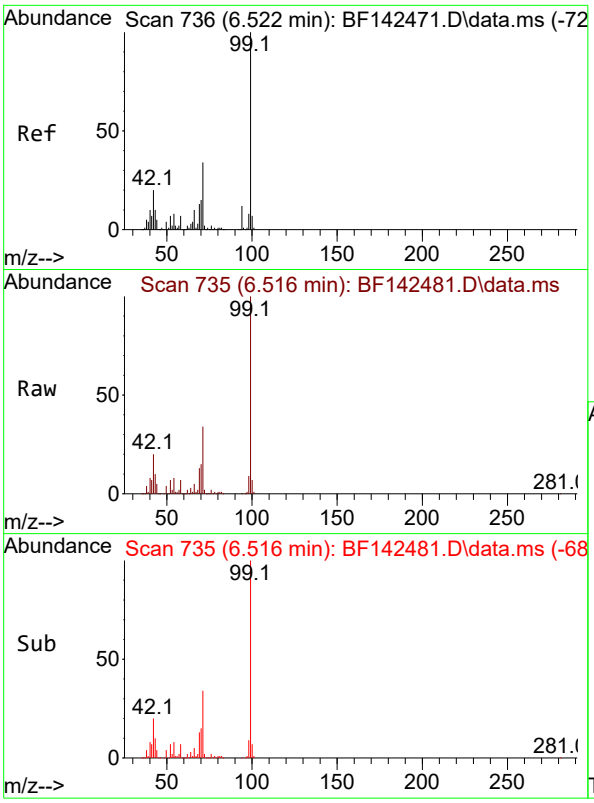


#5
2-Fluorophenol
Concen: 86.479 ng
RT: 5.504 min Scan# 563
Delta R.T. -0.012 min
Lab File: BF142481.D
Acq: 21 May 2025 12:14

Tgt Ion:112 Resp: 452174

Ion	Ratio	Lower	Upper
112	100		
64	59.3	47.5	71.3
63	31.1	24.9	37.3



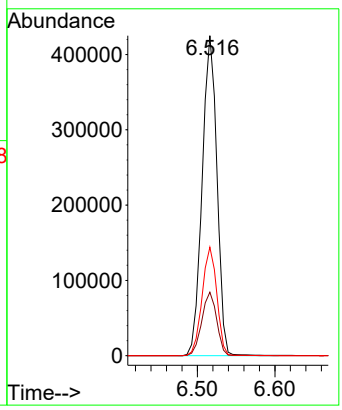


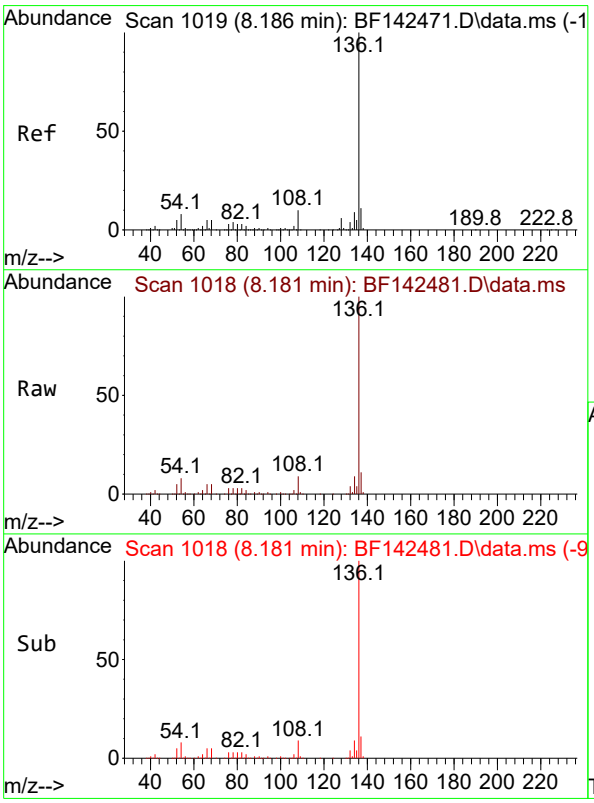
#7
Phenol-d6
Concen: 89.621 ng
RT: 6.516 min Scan# 7
Delta R.T. -0.018 min
Lab File: BF142481.D
Acq: 21 May 2025 12:14

Instrument :
BNA_F
ClientSampleId :
TP-7

Tgt Ion: 99 Resp: 564083

Ion	Ratio	Lower	Upper
99	100		
42	19.9	16.2	24.2
71	33.9	27.3	40.9

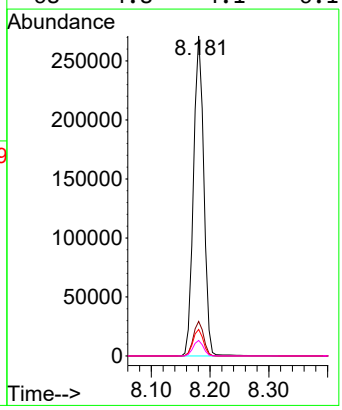


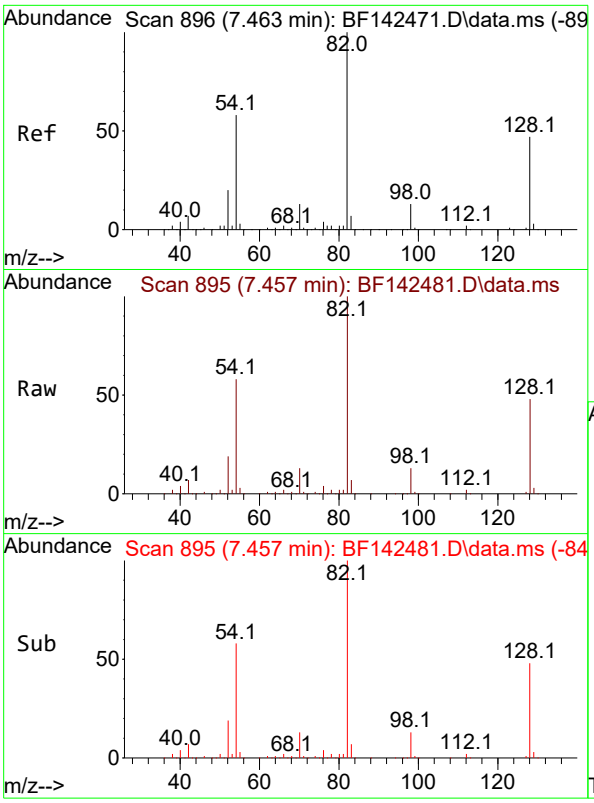


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.181 min Scan# 1018
Delta R.T. -0.006 min
Lab File: BF142481.D
Acq: 21 May 2025 12:14

Tgt Ion:136 Resp: 330115

Ion	Ratio	Lower	Upper
136	100		
137	10.8	8.6	13.0
54	8.3	6.6	10.0
68	4.8	4.1	6.1



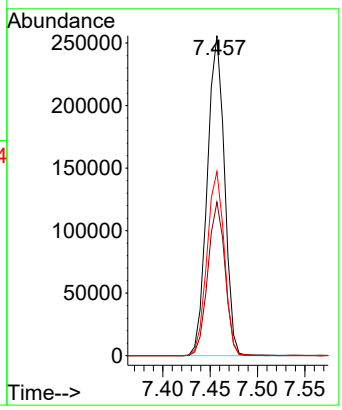


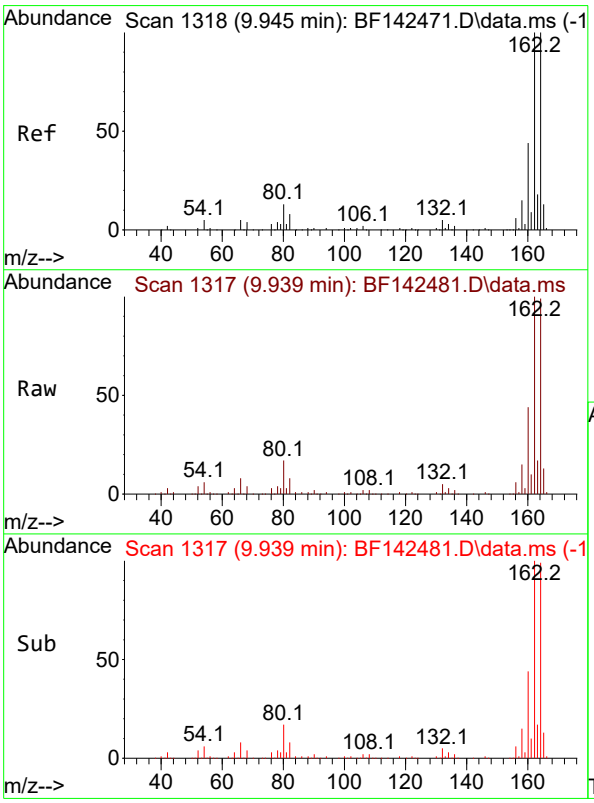
#23
Nitrobenzene-d5
Concen: 53.507 ng
RT: 7.457 min Scan# 8
Delta R.T. -0.018 min
Lab File: BF142481.D
Acq: 21 May 2025 12:14

Instrument :
BNA_F
ClientSampleId :
TP-7

Tgt Ion: 82 Resp: 323927

Ion	Ratio	Lower	Upper
82	100		
128	48.0	37.4	56.2
54	57.5	46.6	70.0

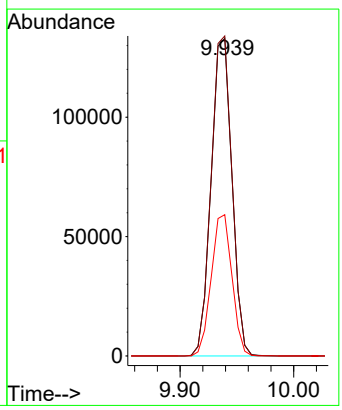


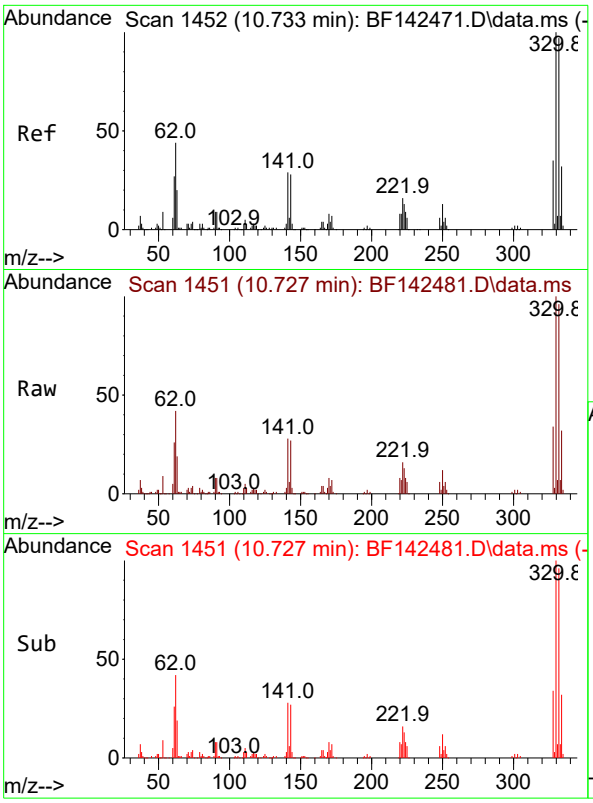


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.939 min Scan# 1317
Delta R.T. -0.006 min
Lab File: BF142481.D
Acq: 21 May 2025 12:14

Tgt Ion:164 Resp: 169428

Ion	Ratio	Lower	Upper
164	100		
162	100.8	80.2	120.4
160	44.5	35.6	53.4



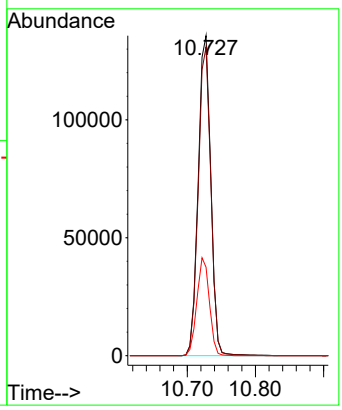


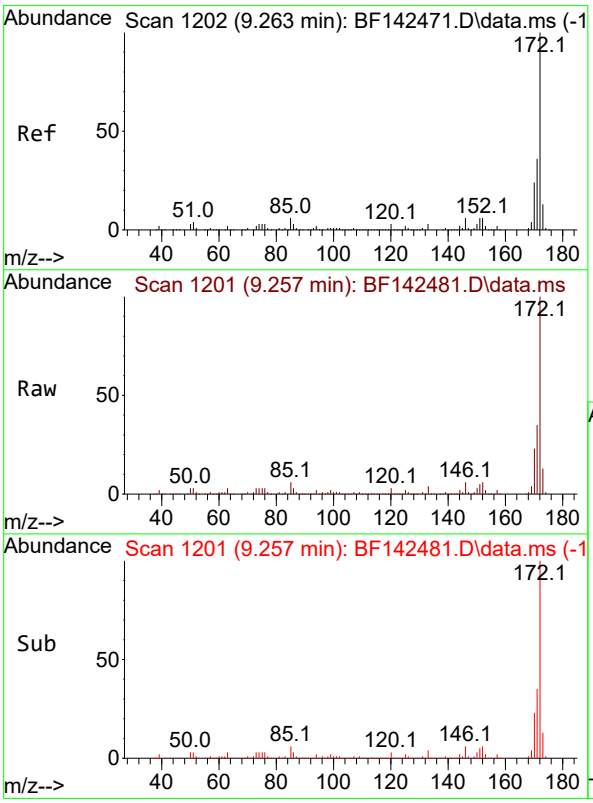
#42
2,4,6-Tribromophenol
Concen: 92.405 ng
RT: 10.727 min Scan# 14
Delta R.T. -0.012 min
Lab File: BF142481.D
Acq: 21 May 2025 12:14

Instrument :
BNA_F
ClientSampleId :
TP-7

Tgt Ion:330 Resp: 173761

Ion	Ratio	Lower	Upper
330	100		
332	96.3	77.6	116.4
141	30.3	24.6	36.8

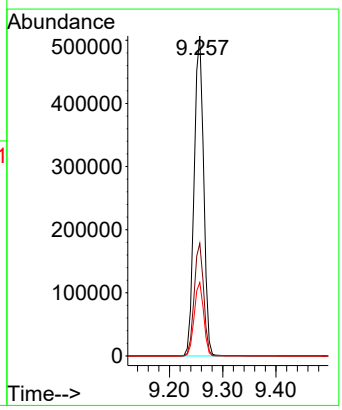


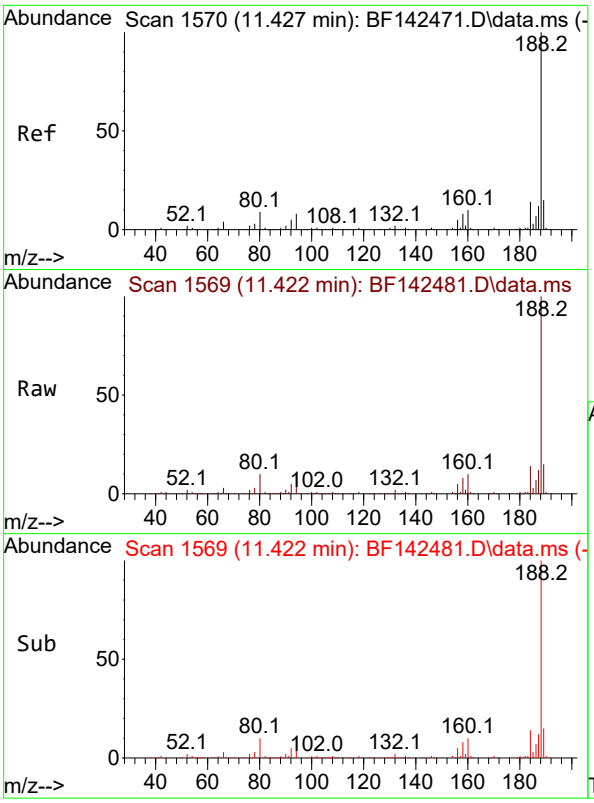


#45
2-Fluorobiphenyl
Concen: 49.950 ng
RT: 9.257 min Scan# 1201
Delta R.T. -0.012 min
Lab File: BF142481.D
Acq: 21 May 2025 12:14

Tgt Ion:172 Resp: 630689

Ion	Ratio	Lower	Upper
172	100		
171	35.2	28.6	42.8
170	22.9	18.9	28.3



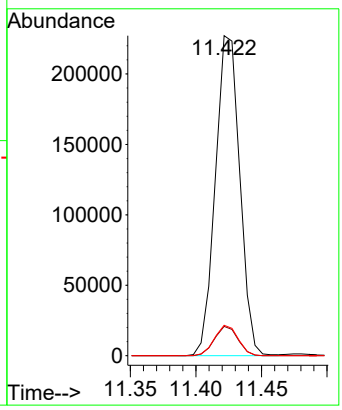


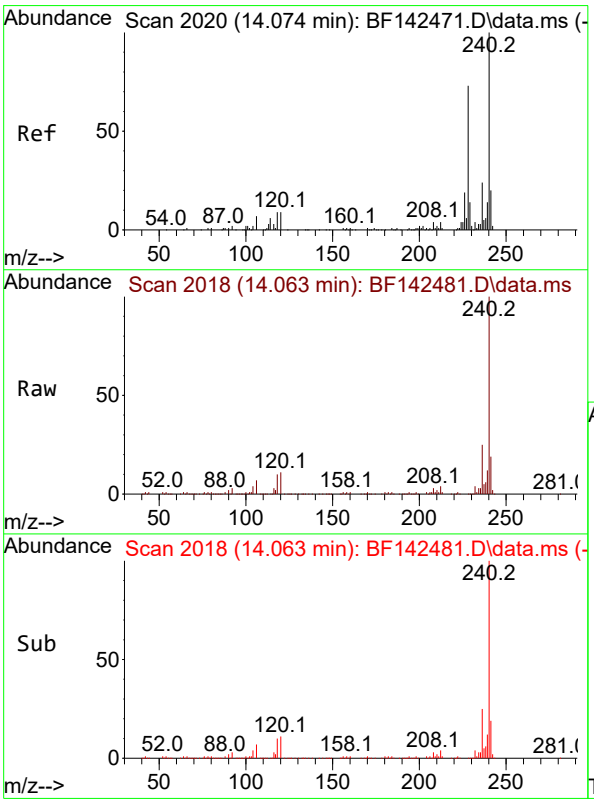
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.422 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF142481.D
Acq: 21 May 2025 12:14

Instrument :
BNA_F
ClientSampleId :
TP-7

Tgt Ion:188 Resp: 293973

Ion	Ratio	Lower	Upper
188	100		
94	9.2	6.6	10.0
80	9.5	7.4	11.0

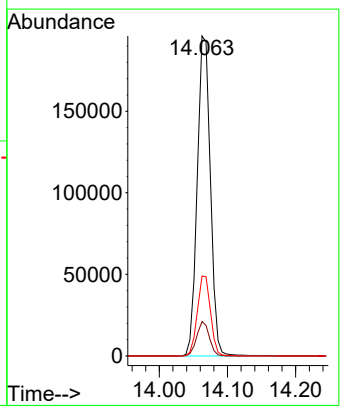


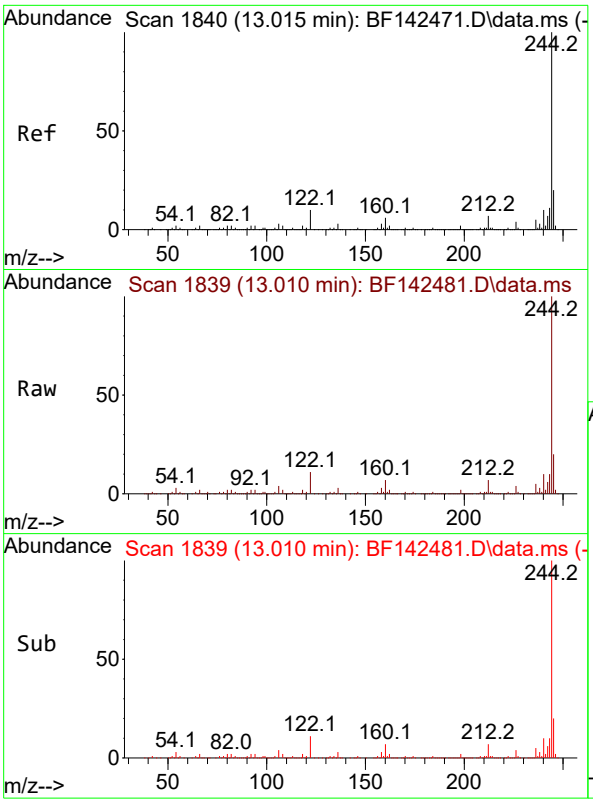


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.063 min Scan# 2018
Delta R.T. -0.012 min
Lab File: BF142481.D
Acq: 21 May 2025 12:14

Tgt Ion:240 Resp: 263519

Ion	Ratio	Lower	Upper
240	100		
120	10.8	7.5	11.3
236	25.0	19.6	29.4



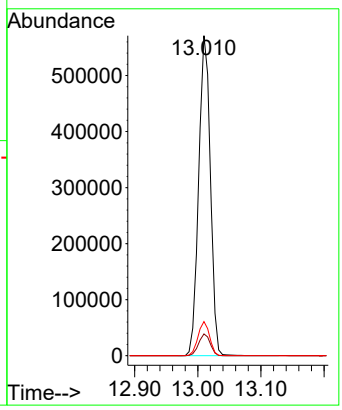


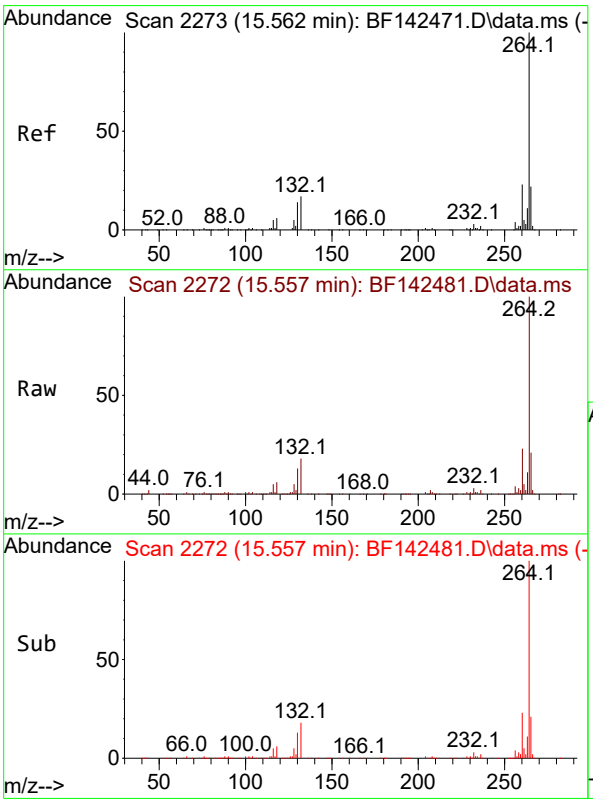
#79
Terphenyl-d14
Concen: 38.067 ng
RT: 13.010 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF142481.D
Acq: 21 May 2025 12:14

Instrument :
BNA_F
ClientSampleId :
TP-7

Tgt Ion:244 Resp: 734064

Ion	Ratio	Lower	Upper
244	100		
212	6.8	5.3	7.9
122	10.7	8.2	12.2

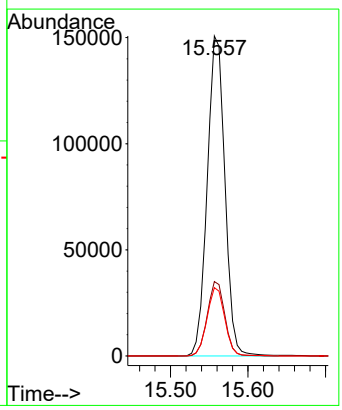




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.557 min Scan# 2272
Delta R.T. -0.012 min
Lab File: BF142481.D
Acq: 21 May 2025 12:14

Tgt Ion:264 Resp: 238889

Ion	Ratio	Lower	Upper
264	100		
260	23.2	18.6	28.0
265	21.4	17.7	26.5



Sample Results: **BF142481.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052125\
Data File : BF142481.D
Acq On : 21 May 2025 12:14
Operator : RC/JU
Sample : Q2074-02
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-7

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: BF142481.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	5.104	486	495	503	rBV	120451	176991	9.14%	1.269%
2	5.504	557	563	568	rBV	1195118	1563966	80.81%	11.211%
3	6.516	729	735	740	rBV	1224037	1633475	84.40%	11.709%
4	6.898	795	800	805	rBV	406273	494665	25.56%	3.546%
5	7.457	889	895	900	rBV	785864	990737	51.19%	7.102%
6	7.710	934	938	943	rBV	20428	24233	1.25%	0.174%
7	8.181	1013	1018	1023	rBV	532892	643550	33.25%	4.613%
8	9.257	1195	1201	1206	rBV	1416383	1763864	91.14%	12.644%
9	9.939	1311	1317	1322	rBV	550338	703973	36.37%	5.046%
10	10.651	1432	1438	1445	rVB	138440	171874	8.88%	1.232%
11	10.722	1445	1450	1466	rBV	966898	1264258	65.32%	9.063%
12	11.422	1564	1569	1575	rBV	546570	701153	36.23%	5.026%
13	11.945	1652	1658	1681	rBV2	197554	352103	18.19%	2.524%
14	12.733	1787	1792	1804	rBV	45077	83476	4.31%	0.598%
15	13.010	1833	1839	1844	rBV	1515178	1935391	100.00%	13.874%
16	13.915	1986	1993	2011	rBV	48952	131856	6.81%	0.945%
17	14.063	2013	2018	2027	rVB	517600	687401	35.52%	4.928%
18	15.557	2266	2272	2285	rVB	394520	627239	32.41%	4.496%

Sum of corrected areas: 13950205

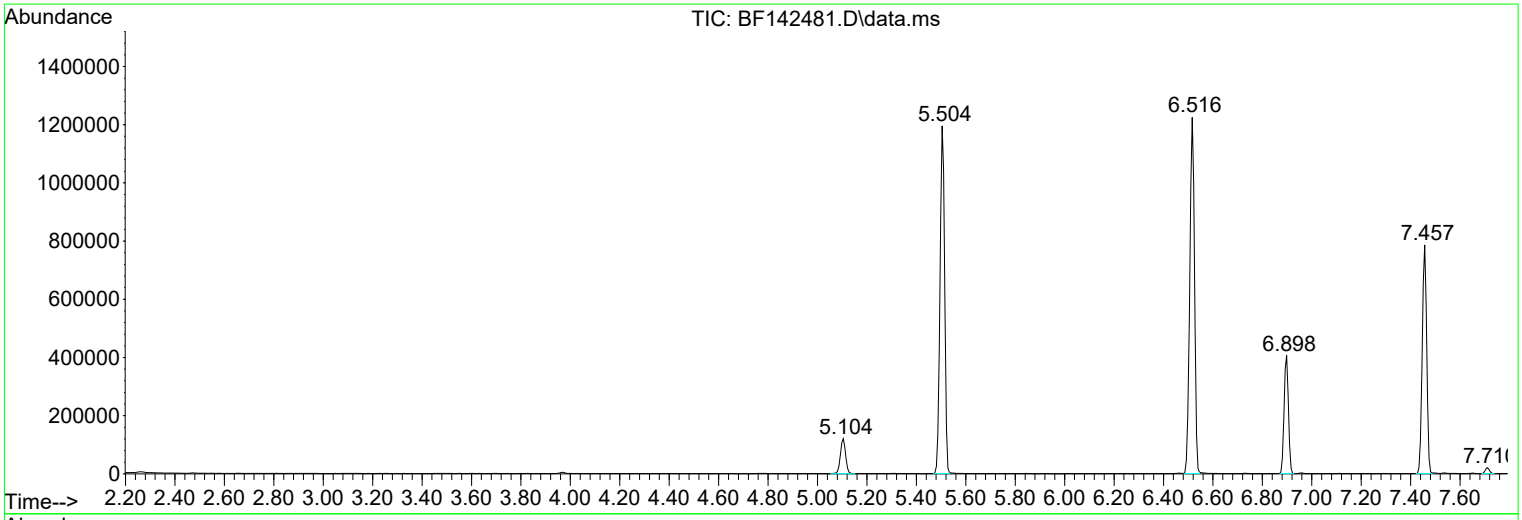
Sample Results: **BF142481.D**

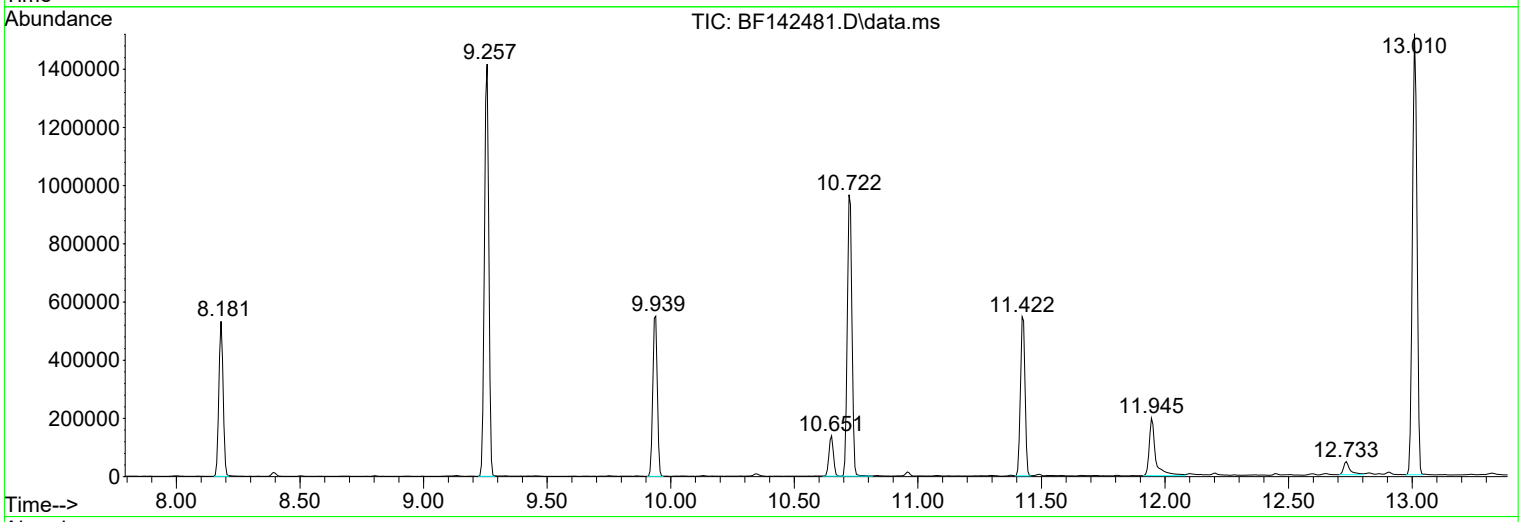
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052125\
Data File : BF142481.D
Acq On : 21 May 2025 12:14
Operator : RC/JU
Sample : Q2074-02
Misc :
ALS Vial : 5 Sample Multiplier: 1

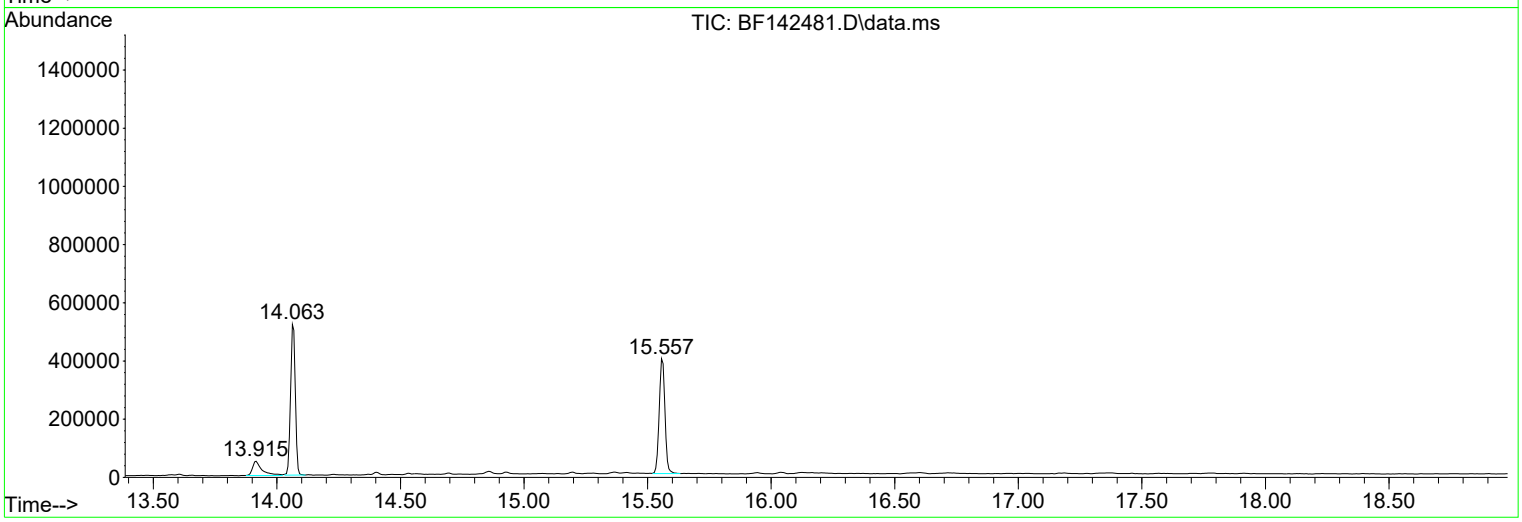
Instrument :
BNA_F
ClientSampleId :
TP-7

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\BF052125\
Data File : BF142481.D
Acq On : 21 May 2025 12:14
Operator : RC/JU
Sample : Q2074-02
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-7

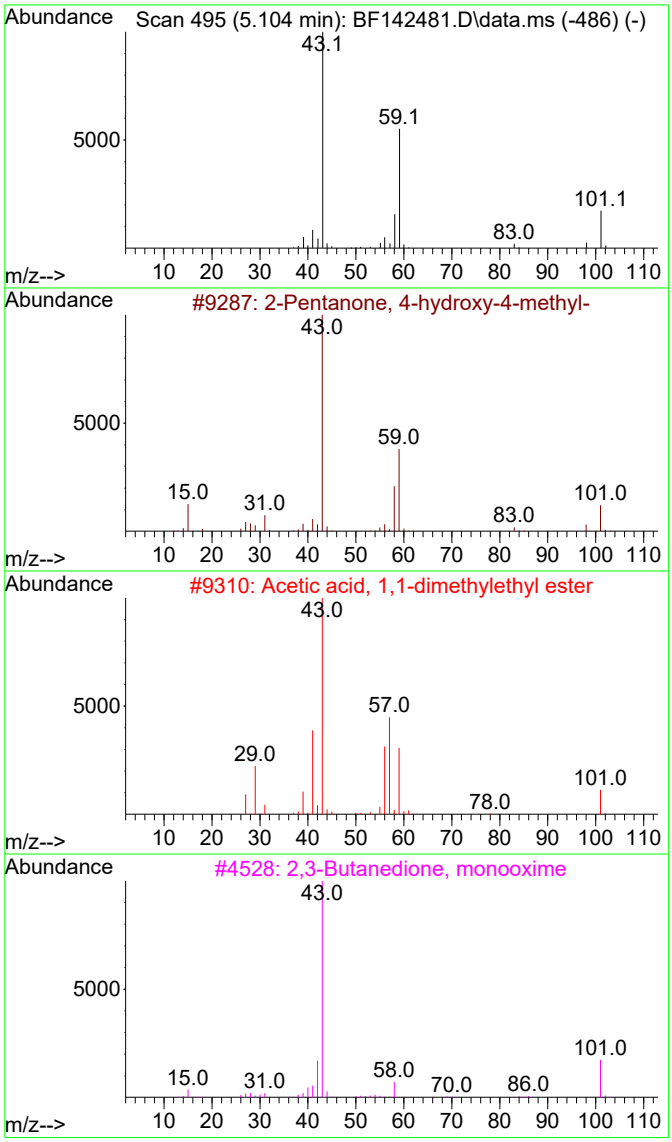
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

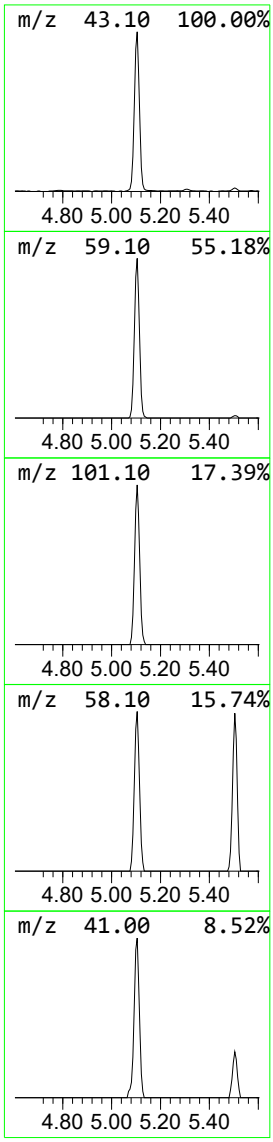
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.104	7.16 ng	176991	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, 1,1-dimethylethyl e...	116	C6H12O2	000540-88-5	23
3	2,3-Butanedione, monooxime	101	C4H7NO2	000057-71-6	16
4	1-Propen-2-ol, acetate	100	C5H8O2	000108-22-5	12
5	Butane, 1-ethoxy-	102	C6H14O	000628-81-9	9





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052125\
Data File : BF142481.D
Acq On : 21 May 2025 12:14
Operator : RC/JU
Sample : Q2074-02
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-7

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

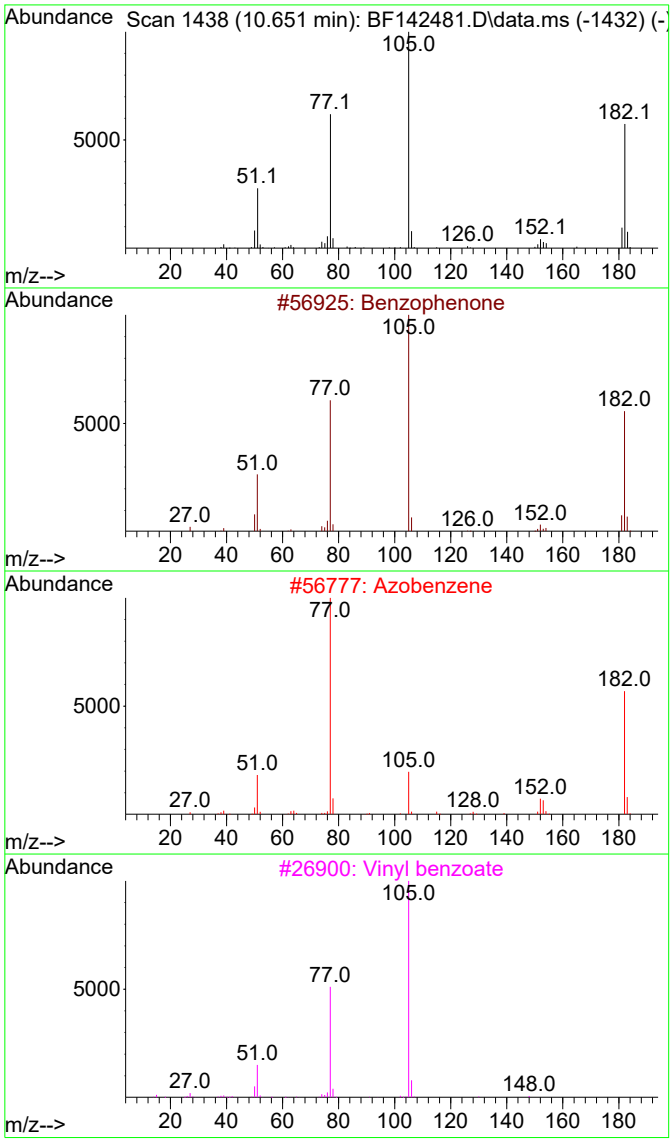
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

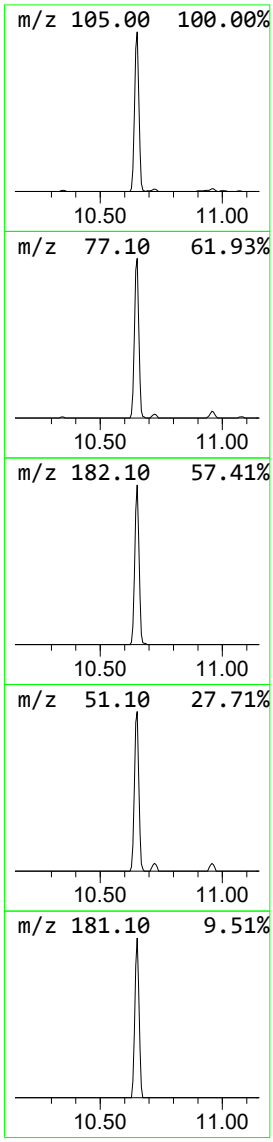
****

Peak Number 2 Benzophenone Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.651	4.88 ng	171874	Acenaphthene-d10	9.939

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzophenone	182	C13H10O	000119-61-9	96
2	Azobenzene	182	C12H10N2	000103-33-3	59
3	Vinyl benzoate	148	C9H8O2	000769-78-8	47
4	Benzoic acid, phenyl ester	198	C13H10O2	000093-99-2	47
5	2-Benzoyl-4-bromo-5-methyl-1,2-o...	281	C11H8BrNO3	1000444-92-3	47





```
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052125\
Data File : BF142481.D
Acq On    : 21 May 2025  12:14
Operator  : RC/JU
Sample    : Q2074-02
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

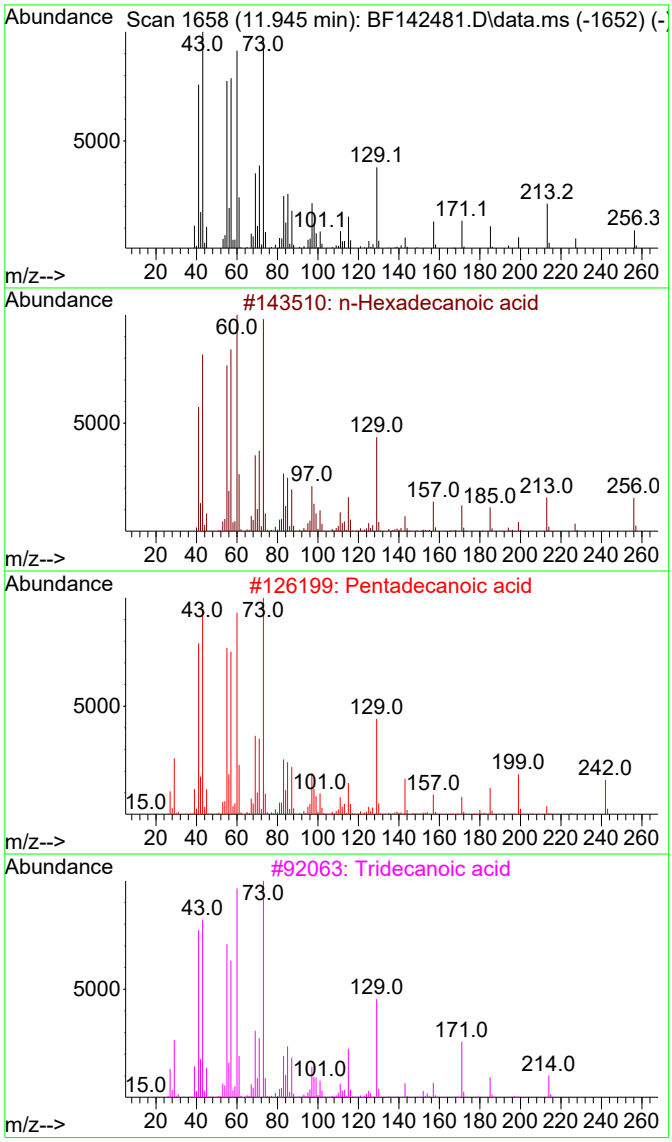
TIC Library   : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P
```

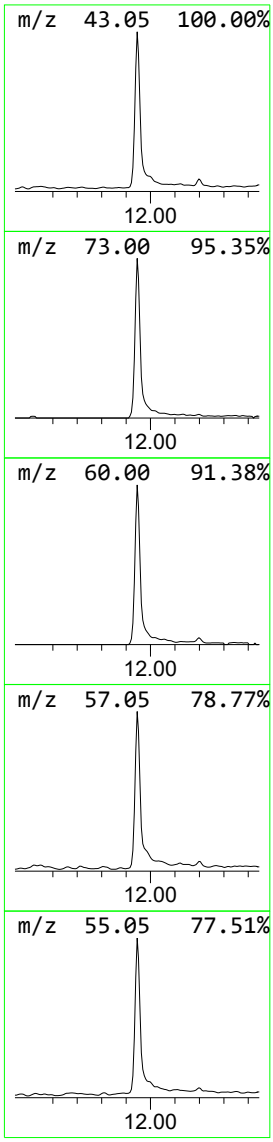
Instrument :
BNA_F
ClientSampleId :
TP-7

Peak Number 3 n-Hexadecanoic acid Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.945	10.04 ng	352103	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	90
4	Tetradecanoic acid	228	C14H28O2	000544-63-8	72
5	Undecanoic acid	186	C11H22O2	000112-37-8	68





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052125\
Data File : BF142481.D
Acq On : 21 May 2025 12:14
Operator : RC/JU
Sample : Q2074-02
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-7

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

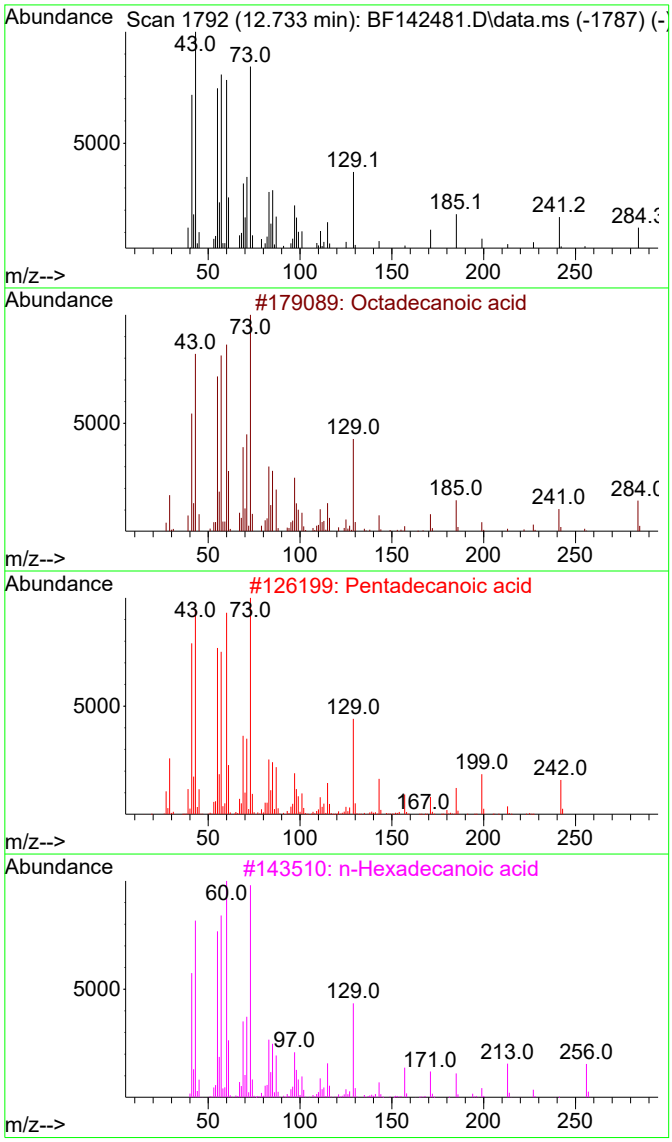
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

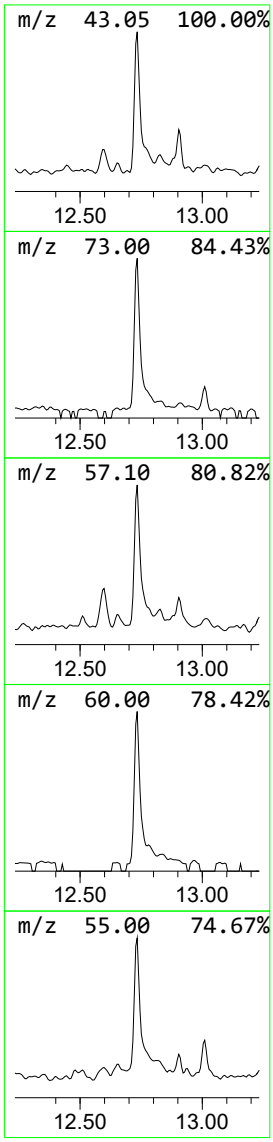
****

Peak Number 4 Octadecanoic acid Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.733	2.38 ng	83476	Phenanthrene-d10	11.422

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octadecanoic acid	284	C18H36O2	000057-11-4	99
2	Pentadecanoic acid	242	C15H30O2	001002-84-2	93
3	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	87
4	Tetradecanoic acid	228	C14H28O2	000544-63-8	72
5	Dodecanoic acid	200	C12H24O2	000143-07-7	64





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052125\
Data File : BF142481.D
Acq On : 21 May 2025 12:14
Operator : RC/JU
Sample : Q2074-02
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-7

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

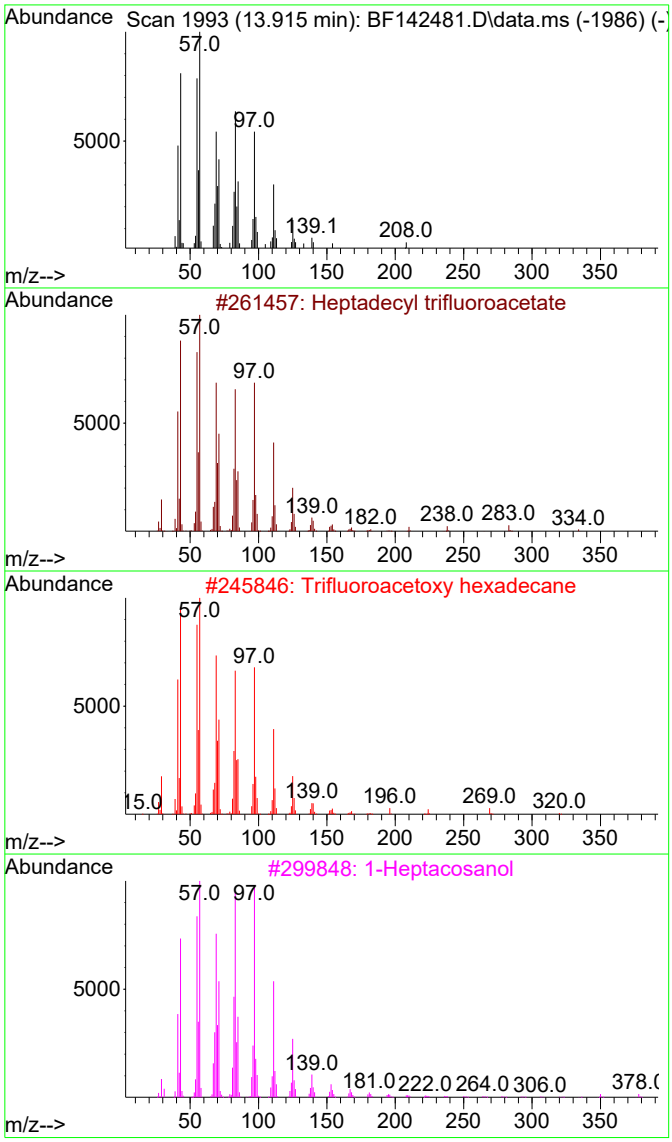
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

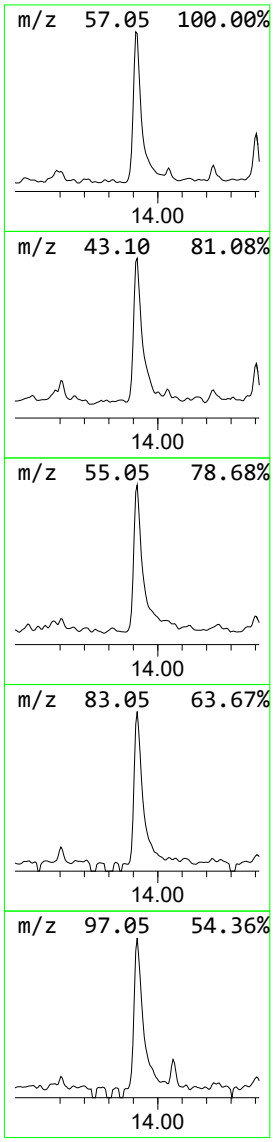
****

Peak Number 5 Heptadecyl trifluoroacetate Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.916	3.84 ng	131856	Chrysene-d12	14.063

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptadecyl trifluoroacetate	352	C19H35F3O2	1010351-87-0	94
2	Trifluoroacetoxy hexadecane	338	C18H33F3O2	006222-03-3	93
3	1-Heptacosanol	396	C27H56O	002004-39-9	91
4	Tricosyl trifluoroacetate	436	C25H47F3O2	1000351-75-1	91
5	Octadecyl trifluoroacetate	366	C20H37F3O2	079392-43-1	91





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052125\
Data File : BF142481.D
Acq On : 21 May 2025 12:14
Operator : RC/JU
Sample : Q2074-02
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-7

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

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

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
2-Pentanone, 4-...	5.104	7.2	ng	176991	1	6.898	494665	20.0
Benzophenone	10.651	4.9	ng	171874	3	9.939	703973	20.0
n-Hexadecanoic ...	11.945	10.0	ng	352103	4	11.422	701153	20.0
Octadecanoic acid	12.733	2.4	ng	83476	4	11.422	701153	20.0
Heptadecyl trif...	13.916	3.8	ng	131856	5	14.063	687401	20.0

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052225\
Data File : BF142514.D
Acq On : 22 May 2025 17:03
Operator : RC/JU
Sample : Q2074-03
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-15

Quant Time: May 23 01:22:23 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

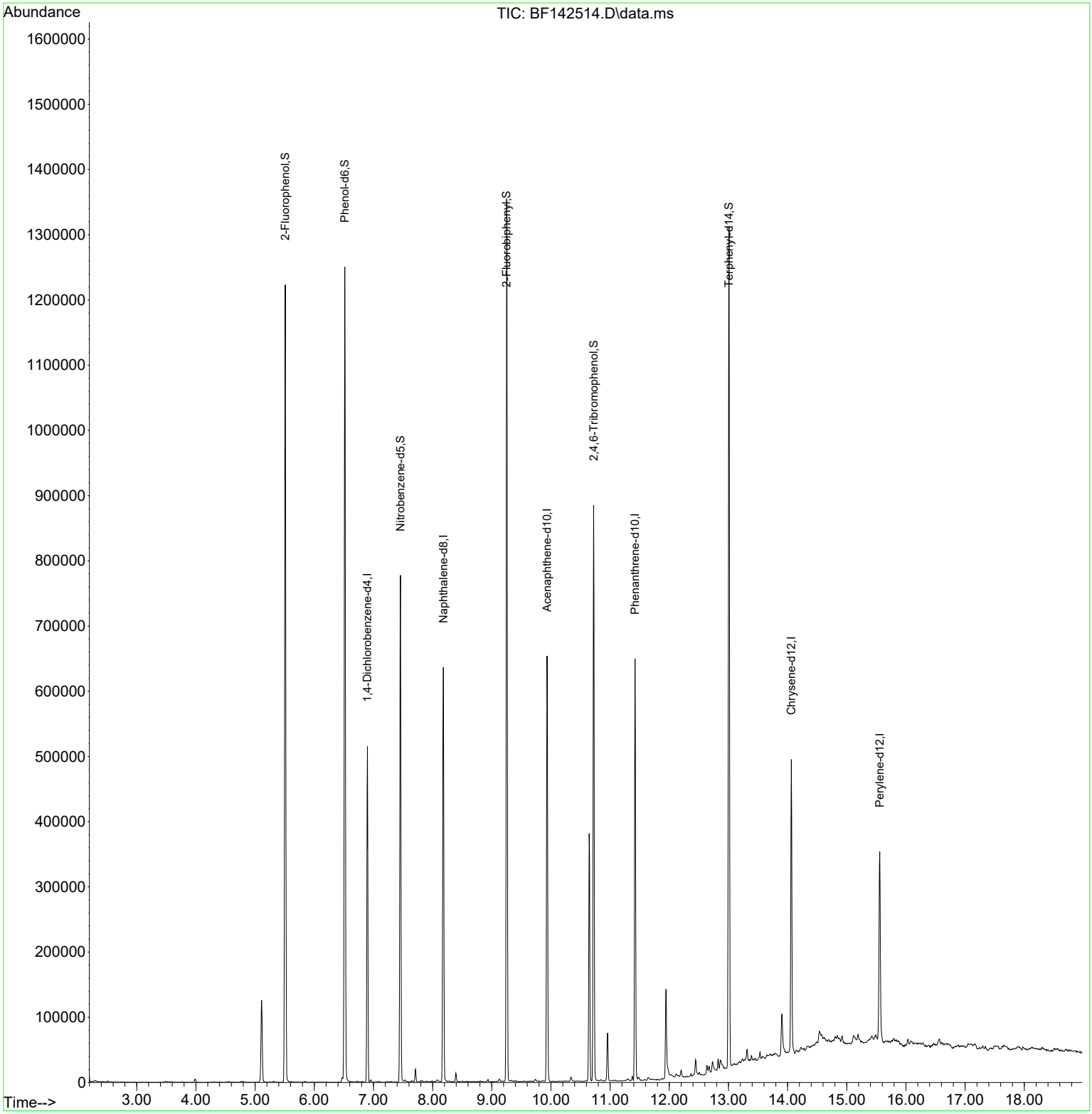
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.898	152	111156	20.000	ng	0.00
21) Naphthalene-d8	8.181	136	403247	20.000	ng	0.00
39) Acenaphthene-d10	9.934	164	196334	20.000	ng	-0.01
64) Phenanthrene-d10	11.422	188	331001	20.000	ng	-0.01
76) Chrysene-d12	14.063	240	212263	20.000	ng	-0.01
86) Perylene-d12	15.557	264	172640	20.000	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.510	112	462988	70.174	ng	0.00
7) Phenol-d6	6.516	99	573497	72.210	ng	-0.02
23) Nitrobenzene-d5	7.457	82	322818	43.653	ng	-0.02
42) 2,4,6-Tribromophenol	10.722	330	150454	69.045	ng	-0.02
45) 2-Fluorobiphenyl	9.251	172	615030	42.035	ng	-0.02
79) Terphenyl-d14	13.010	244	634371	40.841	ng	0.00
Target Compounds						Qvalue

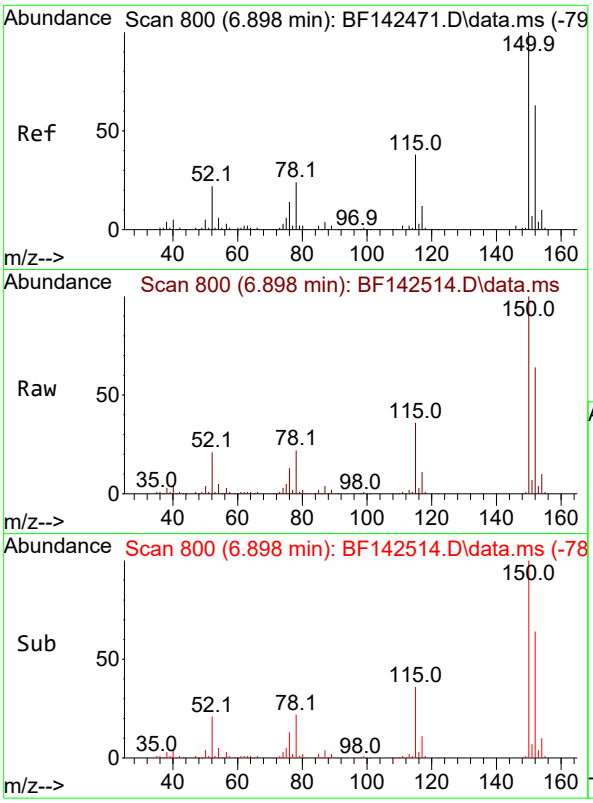
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052225\
Data File : BF142514.D
Acq On : 22 May 2025 17:03
Operator : RC/JU
Sample : Q2074-03
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-15

Quant Time: May 23 01:22:23 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



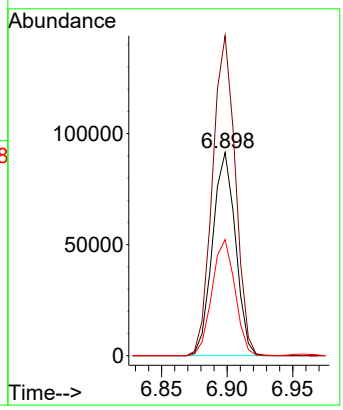


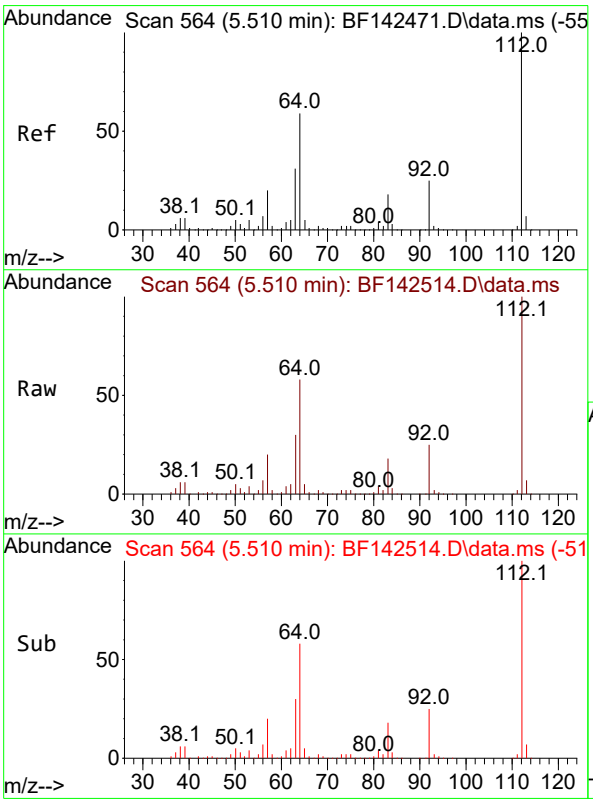
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.898 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF142514.D
Acq: 22 May 2025 17:03

Instrument :
BNA_F
ClientSampleId :
TP-15

Tgt Ion:152 Resp: 111156

Ion	Ratio	Lower	Upper
152	100		
150	157.5	128.2	192.4
115	57.1	48.3	72.5

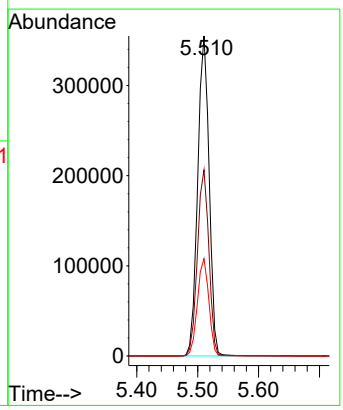


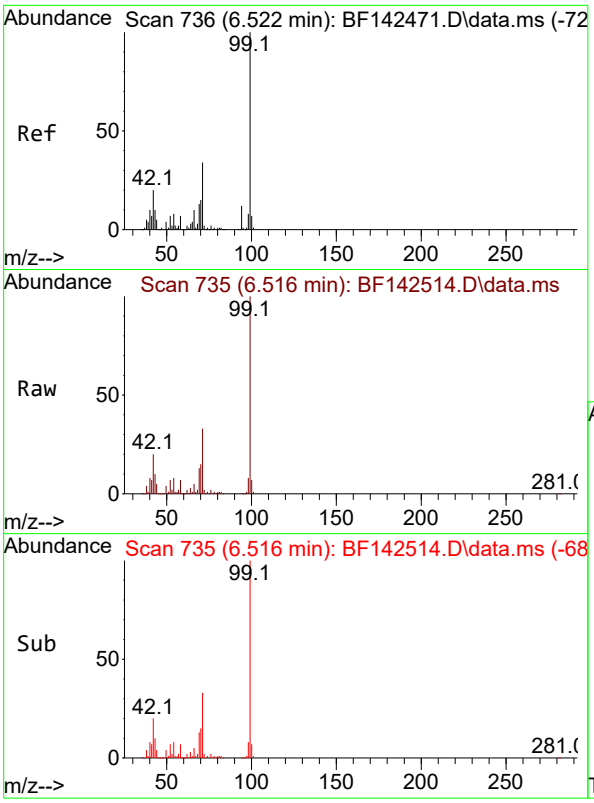


#5
2-Fluorophenol
Concen: 70.174 ng
RT: 5.510 min Scan# 564
Delta R.T. -0.006 min
Lab File: BF142514.D
Acq: 22 May 2025 17:03

Tgt Ion:112 Resp: 462988

Ion	Ratio	Lower	Upper
112	100		
64	58.1	47.5	71.3
63	30.4	24.9	37.3



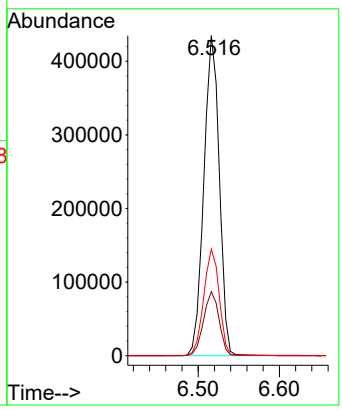


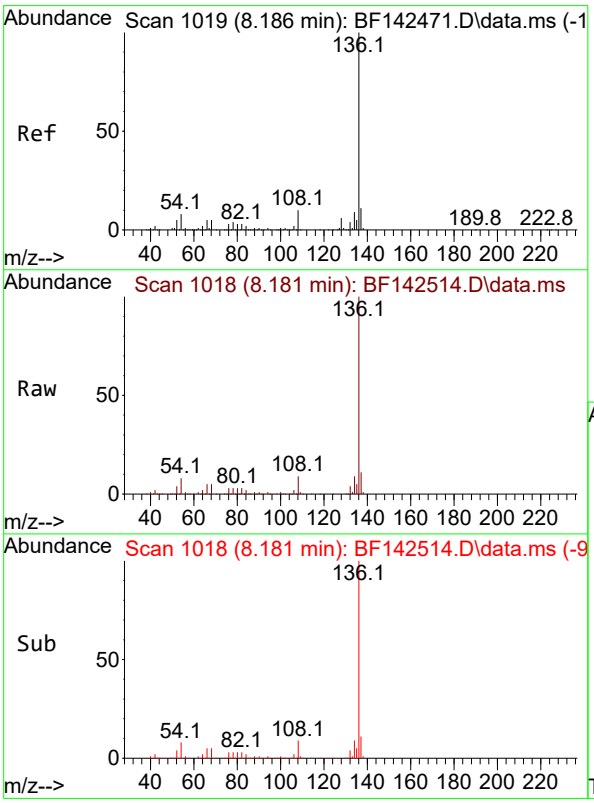
#7
Phenol-d6
Concen: 72.210 ng
RT: 6.516 min Scan# 7
Delta R.T. -0.017 min
Lab File: BF142514.D
Acq: 22 May 2025 17:03

Instrument :
BNA_F
ClientSampleId :
TP-15

Tgt Ion: 99 Resp: 573497

Ion	Ratio	Lower	Upper
99	100		
42	20.0	16.2	24.2
71	33.3	27.3	40.9

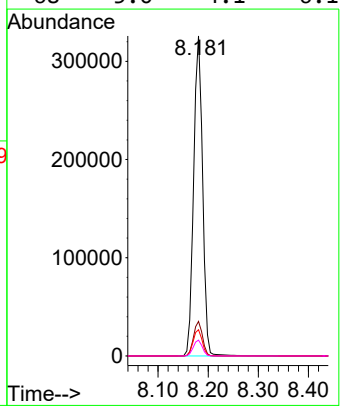


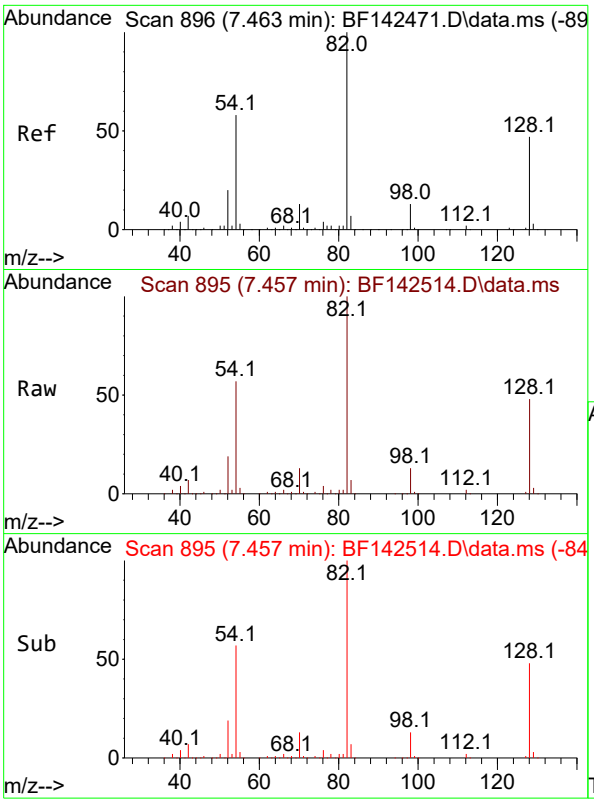


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.181 min Scan# 1018
Delta R.T. -0.006 min
Lab File: BF142514.D
Acq: 22 May 2025 17:03

Tgt Ion:136 Resp: 403247

Ion	Ratio	Lower	Upper
136	100		
137	10.8	8.6	13.0
54	8.2	6.6	10.0
68	5.0	4.1	6.1



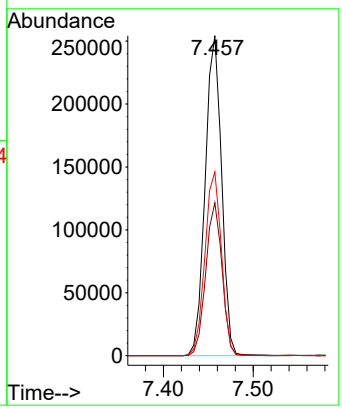


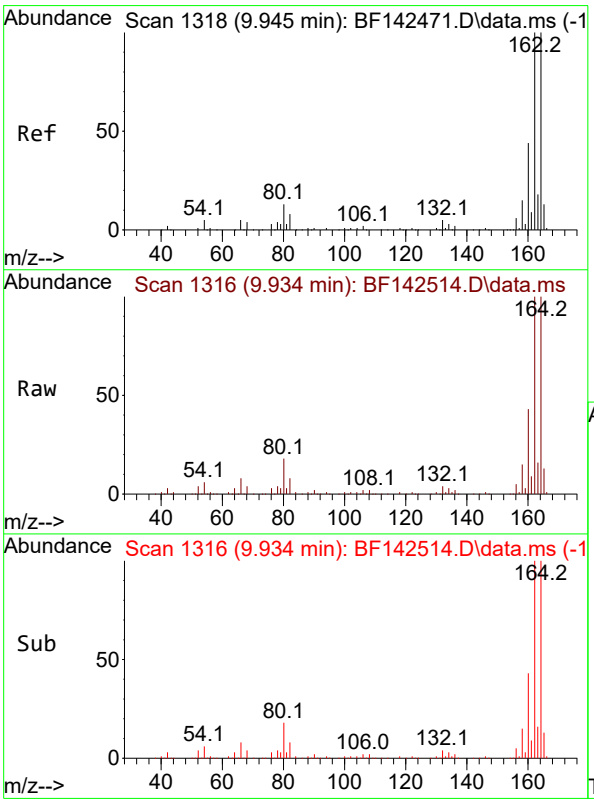
#23
Nitrobenzene-d5
Concen: 43.653 ng
RT: 7.457 min Scan# 8
Delta R.T. -0.017 min
Lab File: BF142514.D
Acq: 22 May 2025 17:03

Instrument :
BNA_F
ClientSampleId :
TP-15

Tgt Ion: 82 Resp: 322818

Ion	Ratio	Lower	Upper
82	100		
128	47.8	37.4	56.2
54	57.5	46.6	70.0

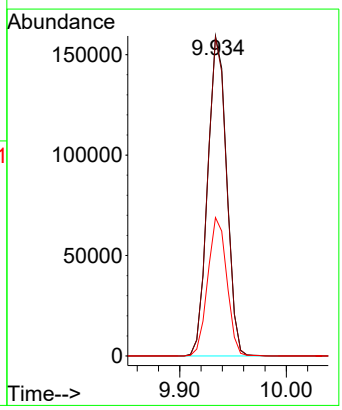


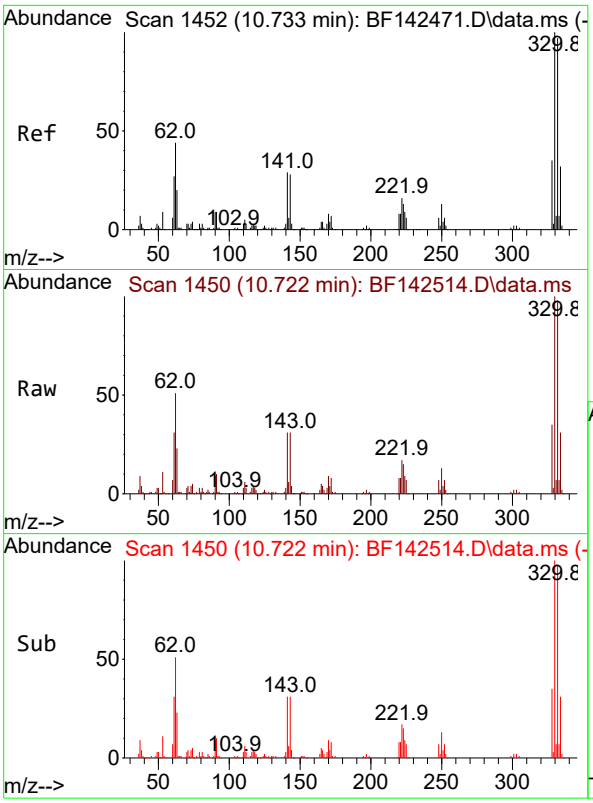


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.934 min Scan# 1316
Delta R.T. -0.012 min
Lab File: BF142514.D
Acq: 22 May 2025 17:03

Tgt Ion:164 Resp: 196334

Ion	Ratio	Lower	Upper
164	100		
162	99.6	80.2	120.4
160	43.3	35.6	53.4



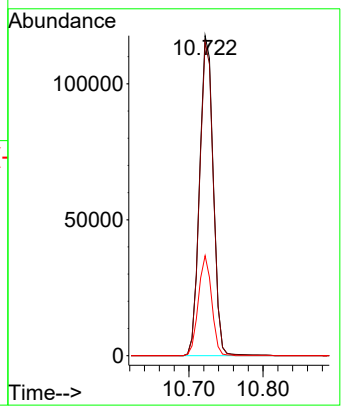


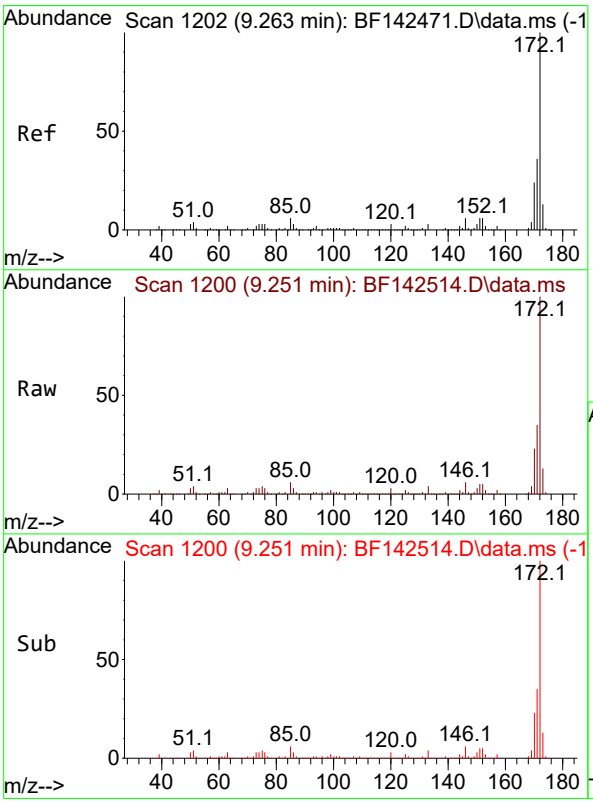
#42
2,4,6-Tribromophenol
Concen: 69.045 ng
RT: 10.722 min Scan# 14
Delta R.T. -0.017 min
Lab File: BF142514.D
Acq: 22 May 2025 17:03

Instrument :
BNA_F
ClientSampleId :
TP-15

Tgt Ion:330 Resp: 150454

Ion	Ratio	Lower	Upper
330	100		
332	98.2	77.6	116.4
141	30.4	24.6	36.8

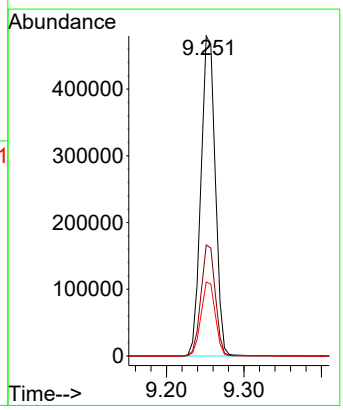


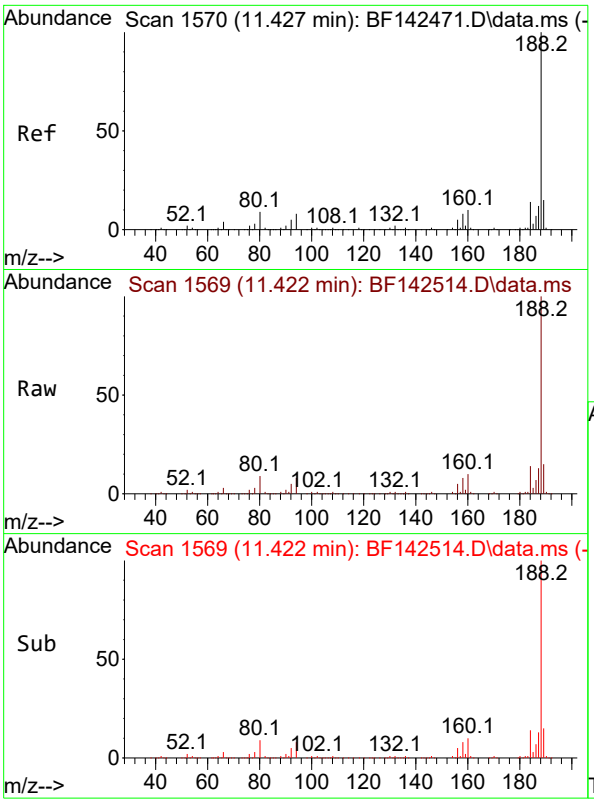


#45
2-Fluorobiphenyl
Concen: 42.035 ng
RT: 9.251 min Scan# 1200
Delta R.T. -0.017 min
Lab File: BF142514.D
Acq: 22 May 2025 17:03

Tgt Ion:172 Resp: 615030

Ion	Ratio	Lower	Upper
172	100		
171	34.7	28.6	42.8
170	23.1	18.9	28.3



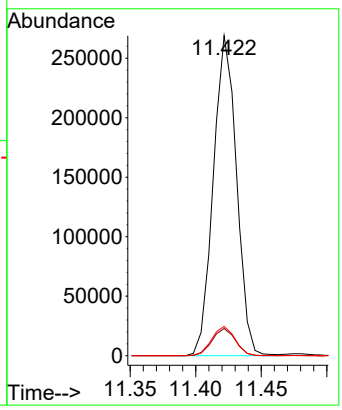


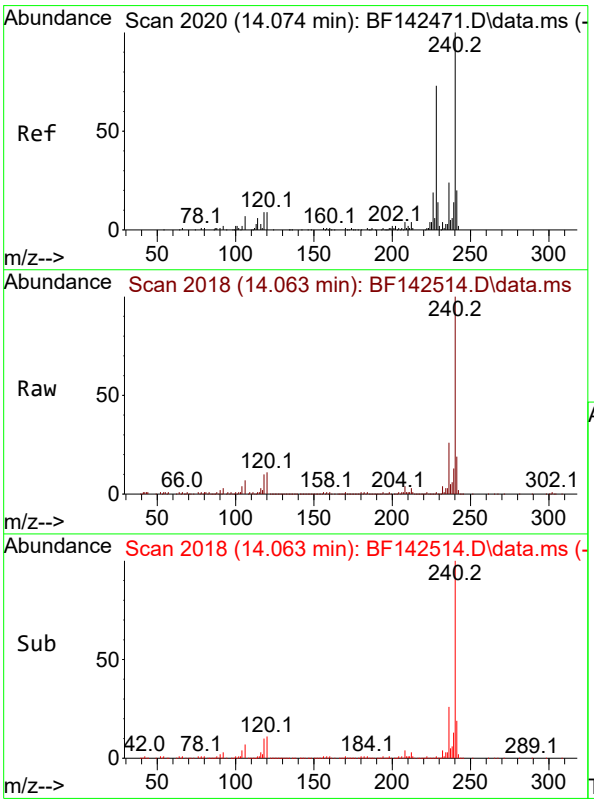
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.422 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF142514.D
Acq: 22 May 2025 17:03

Instrument :
BNA_F
ClientSampleId :
TP-15

Tgt Ion:188 Resp: 331001

Ion	Ratio	Lower	Upper
188	100		
94	8.5	6.6	10.0
80	9.2	7.4	11.0

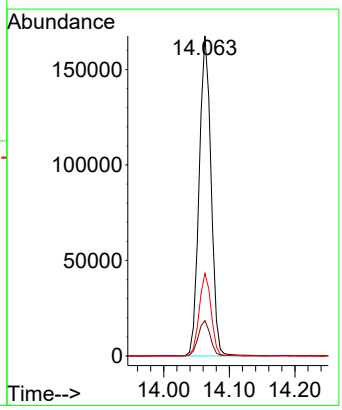


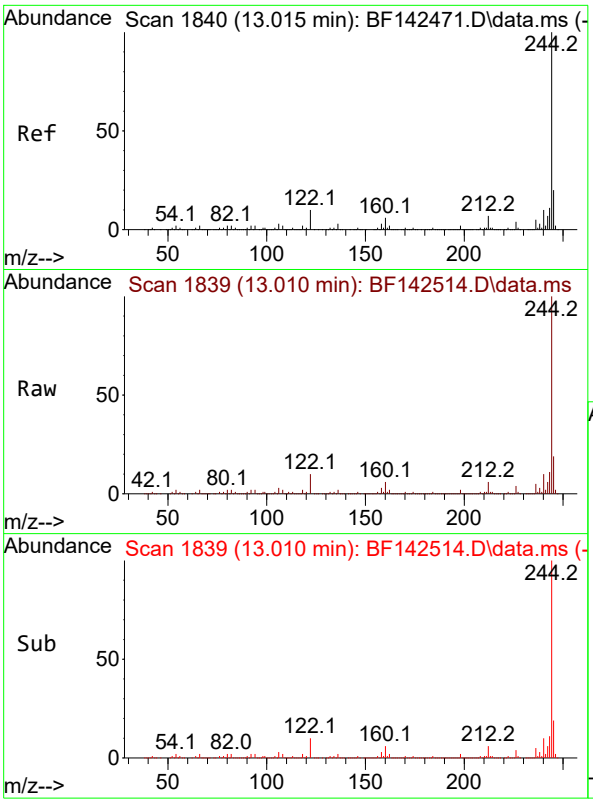


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.063 min Scan# 2018
Delta R.T. -0.012 min
Lab File: BF142514.D
Acq: 22 May 2025 17:03

Tgt Ion:240 Resp: 212263

Ion	Ratio	Lower	Upper
240	100		
120	11.0	7.5	11.3
236	25.8	19.6	29.4



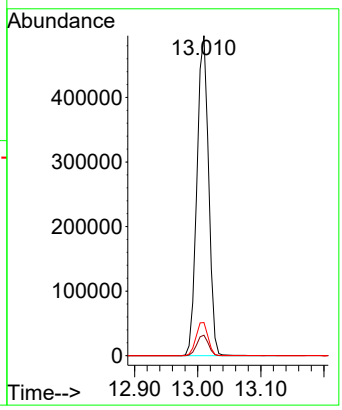


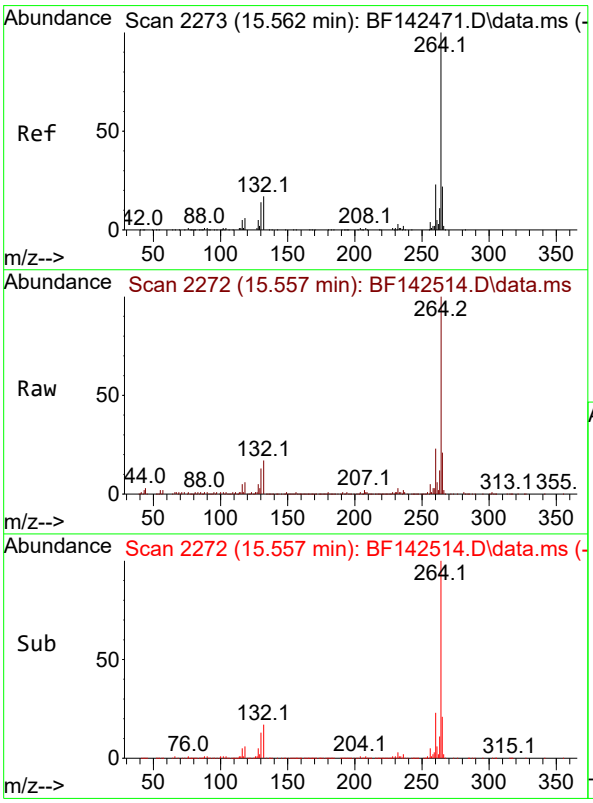
#79
Terphenyl-d14
Concen: 40.841 ng
RT: 13.010 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF142514.D
Acq: 22 May 2025 17:03

Instrument :
BNA_F
ClientSampleId :
TP-15

Tgt Ion:244 Resp: 634371

Ion	Ratio	Lower	Upper
244	100		
212	6.4	5.3	7.9
122	10.4	8.2	12.2

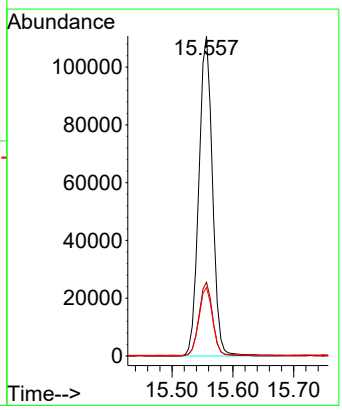




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.557 min Scan# 2272
Delta R.T. -0.012 min
Lab File: BF142514.D
Acq: 22 May 2025 17:03

Tgt Ion:264 Resp: 172640

Ion	Ratio	Lower	Upper
264	100		
260	23.1	18.6	28.0
265	21.4	17.7	26.5



Sample Results: **BF142514.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052225\
Data File : BF142514.D
Acq On : 22 May 2025 17:03
Operator : RC/JU
Sample : Q2074-03
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-15

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: BF142514.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	5.110	487	496	505	rBV	125847	184184	10.76%	1.306%
2	5.510	558	564	569	rBV	1222335	1589884	92.89%	11.271%
3	6.516	729	735	750	rVB	1249786	1676975	97.98%	11.888%
4	6.898	795	800	805	rBV	514627	625296	36.53%	4.433%
5	7.457	889	895	900	rBV	777014	983780	57.48%	6.974%
6	7.710	934	938	945	rVB	19172	23730	1.39%	0.168%
7	8.181	1012	1018	1023	rBV	635810	781917	45.68%	5.543%
8	9.251	1195	1200	1205	rBV	1352761	1711618	100.00%	12.134%
9	9.934	1311	1316	1326	rVB	652758	807665	47.19%	5.725%
10	10.645	1432	1437	1445	rBV	379487	474124	27.70%	3.361%
11	10.722	1445	1450	1460	rVB	882326	1107524	64.71%	7.851%
12	10.957	1485	1490	1497	rVB	73093	88008	5.14%	0.624%
13	11.422	1564	1569	1576	rBV	646400	798504	46.65%	5.661%
14	11.945	1653	1658	1670	rBV2	136904	216257	12.63%	1.533%
15	12.445	1738	1743	1750	rBV	22803	34589	2.02%	0.245%
16	12.639	1772	1776	1779	rBV	12924	19741	1.15%	0.140%
17	12.733	1787	1792	1800	rBV6	15815	34460	2.01%	0.244%
18	12.827	1804	1808	1811	rBV	16752	21754	1.27%	0.154%
19	12.869	1811	1815	1824	rVB2	12945	32519	1.90%	0.231%
20	13.010	1833	1839	1844	rBV	1290327	1673459	97.77%	11.863%
21	13.316	1888	1891	1894	rVB5	16328	19877	1.16%	0.141%
22	13.904	1986	1991	2000	rBV	63745	120598	7.05%	0.855%
23	14.063	2013	2018	2028	rVB	451126	600979	35.11%	4.260%
24	15.557	2266	2272	2283	rVB	292279	479022	27.99%	3.396%

Sum of corrected areas: 14106464

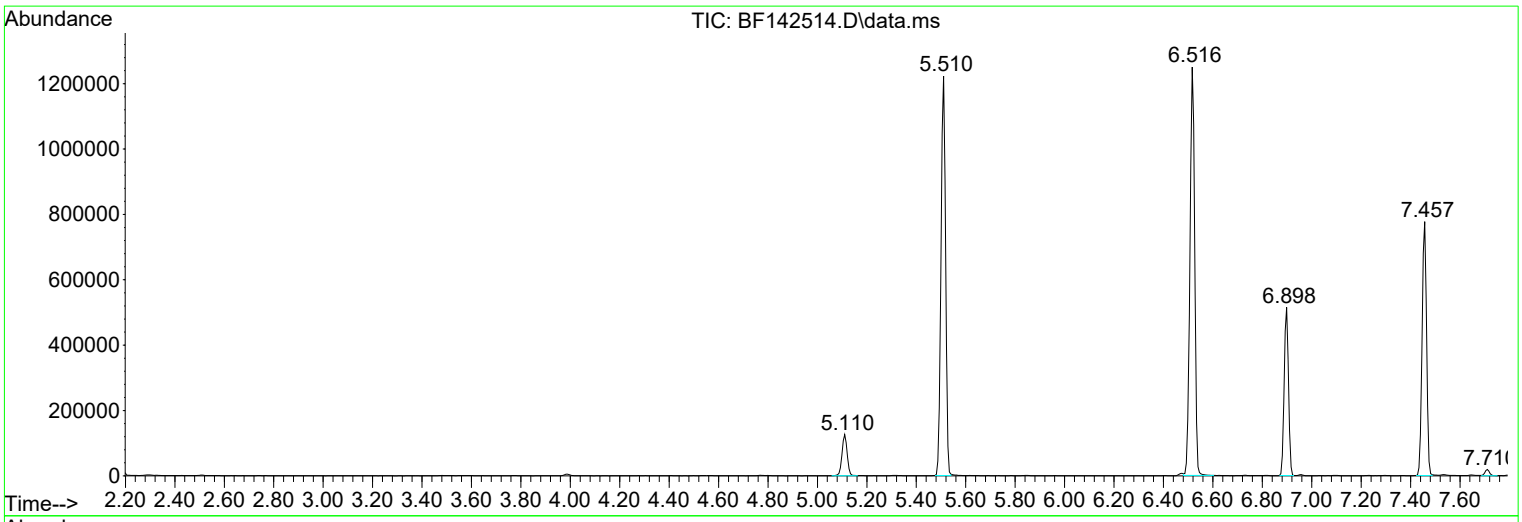
Sample Results: **BF142514.D**

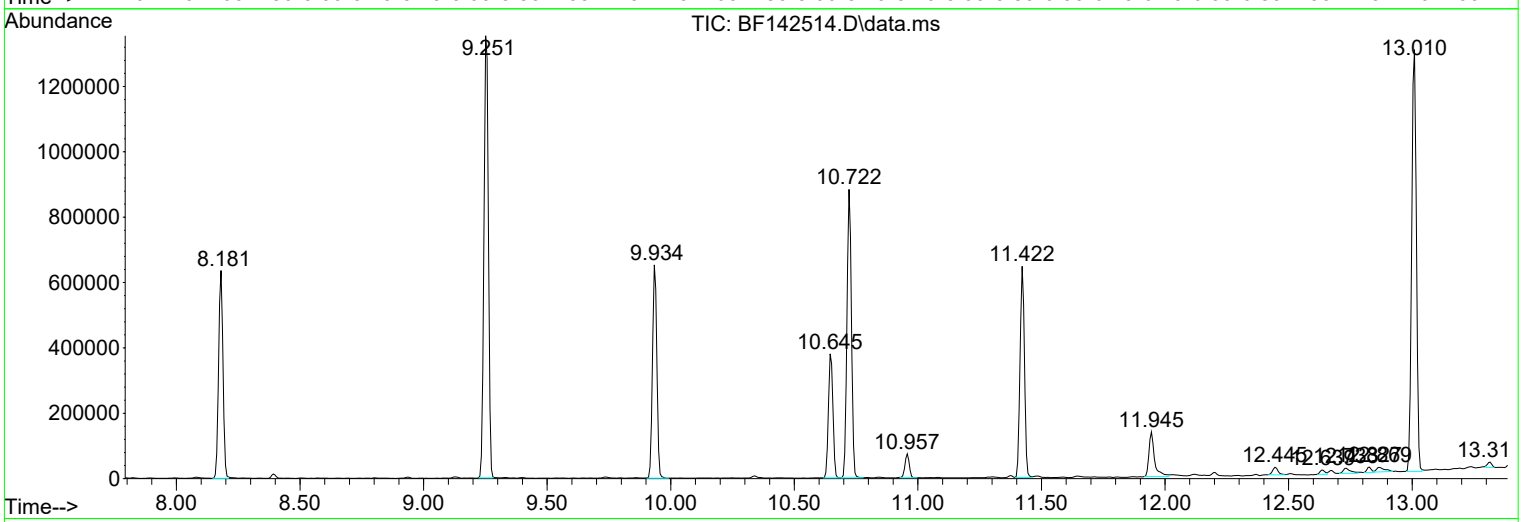
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052225\
Data File : BF142514.D
Acq On : 22 May 2025 17:03
Operator : RC/JU
Sample : Q2074-03
Misc :
ALS Vial : 14 Sample Multiplier: 1

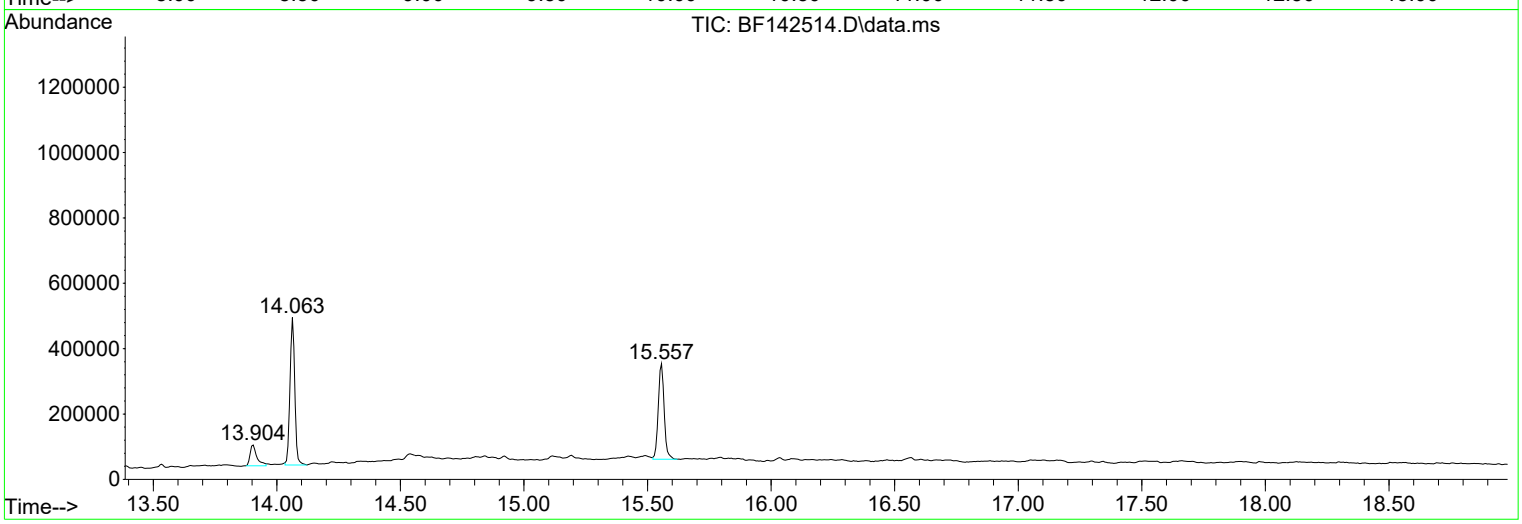
Instrument :
BNA_F
ClientSampleId :
TP-15

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\BF052225\
Data File : BF142514.D
Acq On : 22 May 2025 17:03
Operator : RC/JU
Sample : Q2074-03
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-15

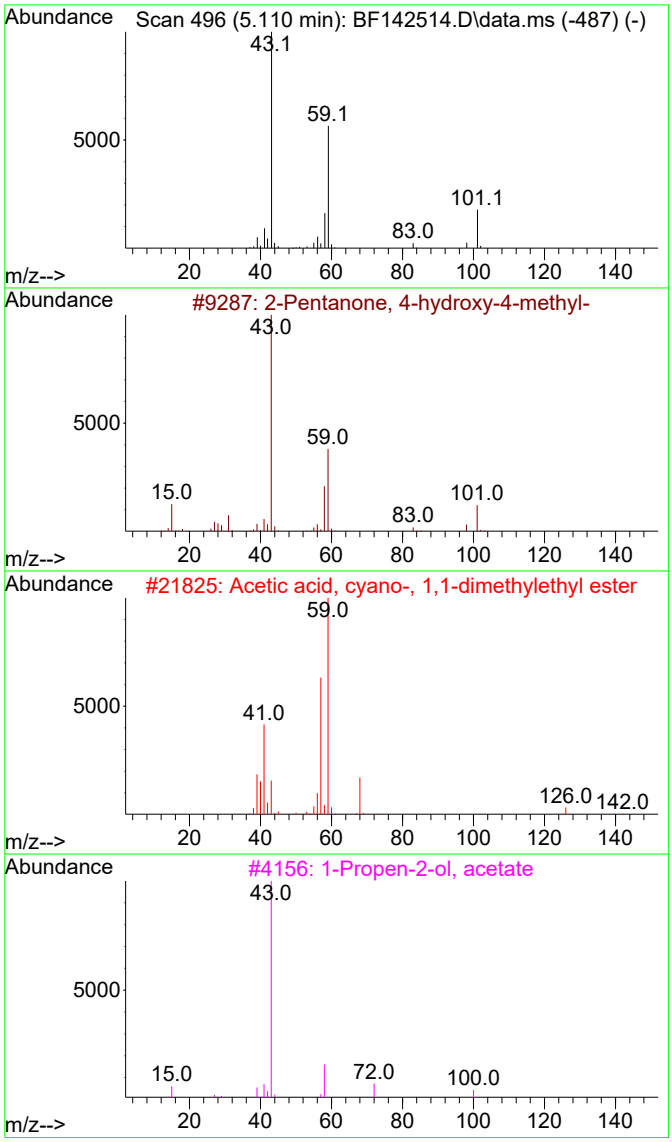
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

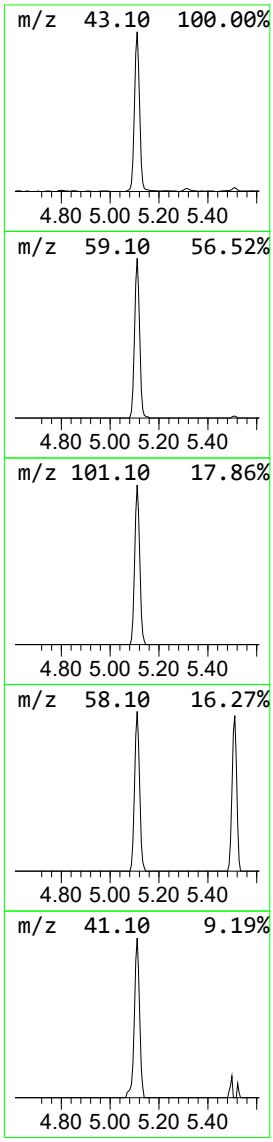
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.110	5.89 ng	184184	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	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\BF052225\
Data File : BF142514.D
Acq On : 22 May 2025 17:03
Operator : RC/JU
Sample : Q2074-03
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-15

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

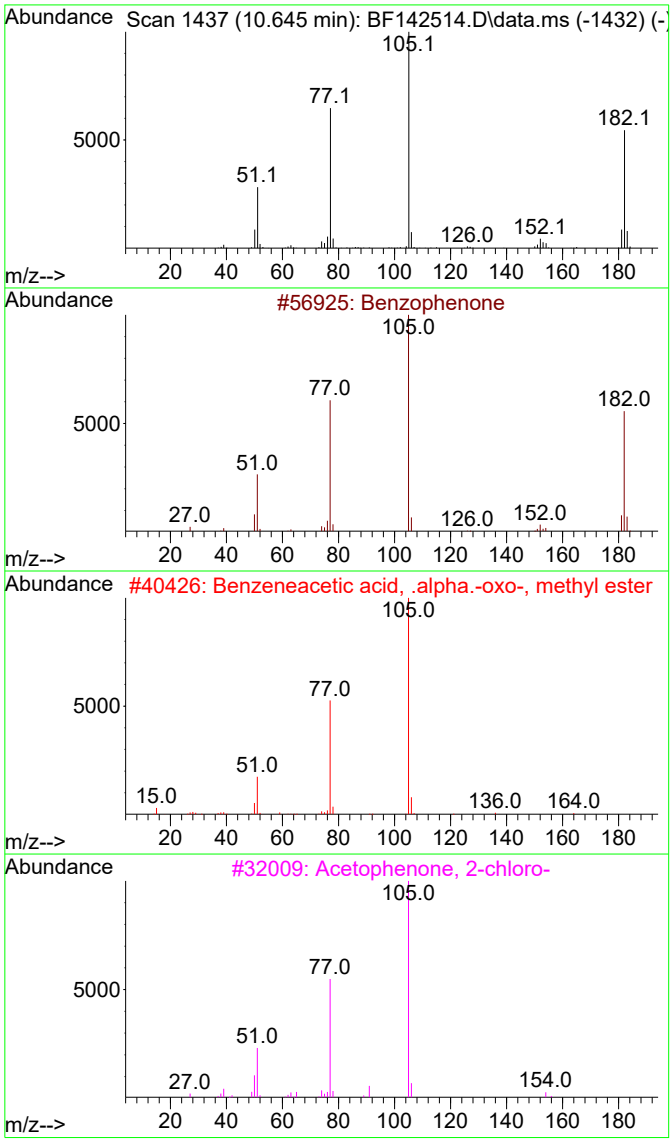
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

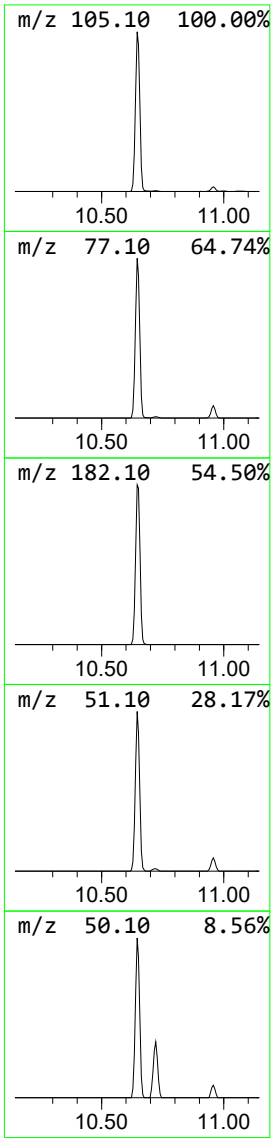
****

Peak Number 2 Benzophenone Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.645	11.74 ng	474124	Acenaphthene-d10	9.934

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzophenone	182	C13H10O	000119-61-9	96
2	Benzeneacetic acid, .alpha.-oxo-...	164	C9H8O3	015206-55-0	49
3	Acetophenone, 2-chloro-	154	C8H7ClO	000532-27-4	47
4	Benzenepropanenitrile, .beta.-oxo-	145	C9H7NO	000614-16-4	47
5	1-Propanone, 2-bromo-1-phenyl-	212	C9H9BrO	002114-00-3	47





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052225\
Data File : BF142514.D
Acq On : 22 May 2025 17:03
Operator : RC/JU
Sample : Q2074-03
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-15

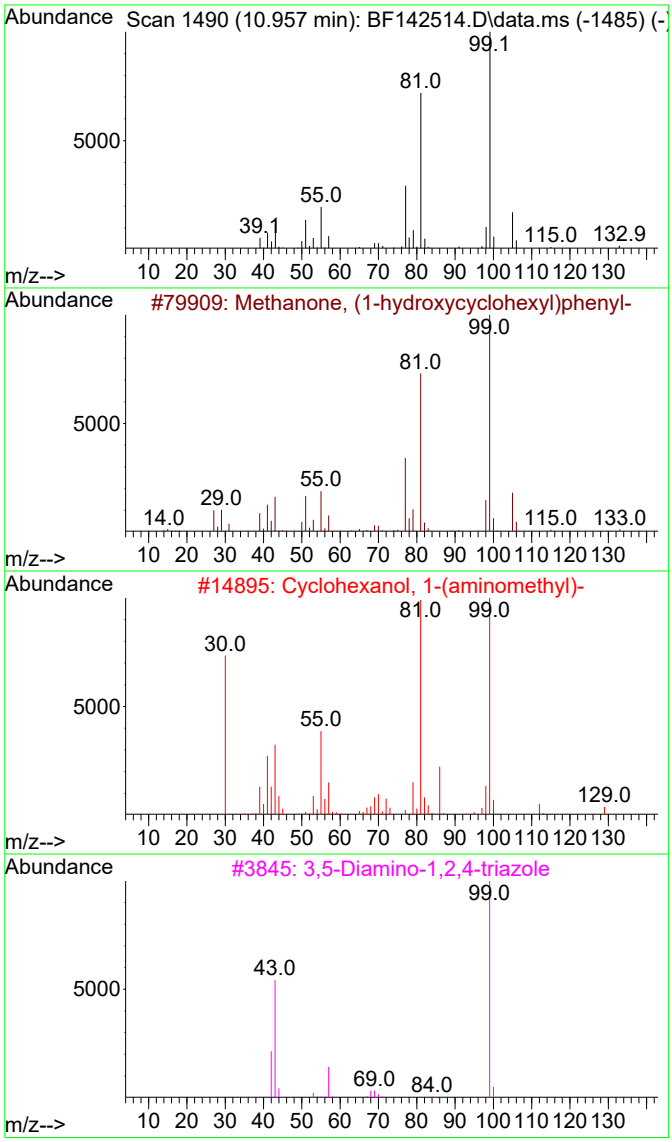
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

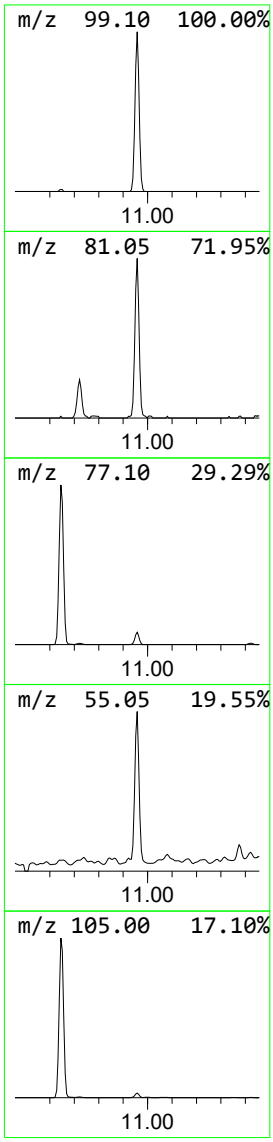
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 3 Methanone, (1-hydroxycycloh... Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.957	2.20 ng	88008	Phenanthrene-d10	11.422

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Methanone, (1-hydroxycyclohexyl)...	204	C13H16O2	000947-19-3	91
2	Cyclohexanol, 1-(aminomethyl)-	129	C7H15NO	004000-72-0	50
3	3,5-Diamino-1,2,4-triazole	99	C2H5N5	001455-77-2	43
4	3-Methylcyclohexyl methylphospho...	194	C8H16FO2P	113548-86-0	38
5	1-Hydroxycyclohexanecarboxylic acid	144	C7H12O3	001123-28-0	38





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052225\
Data File : BF142514.D
Acq On : 22 May 2025 17:03
Operator : RC/JU
Sample : Q2074-03
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-15

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

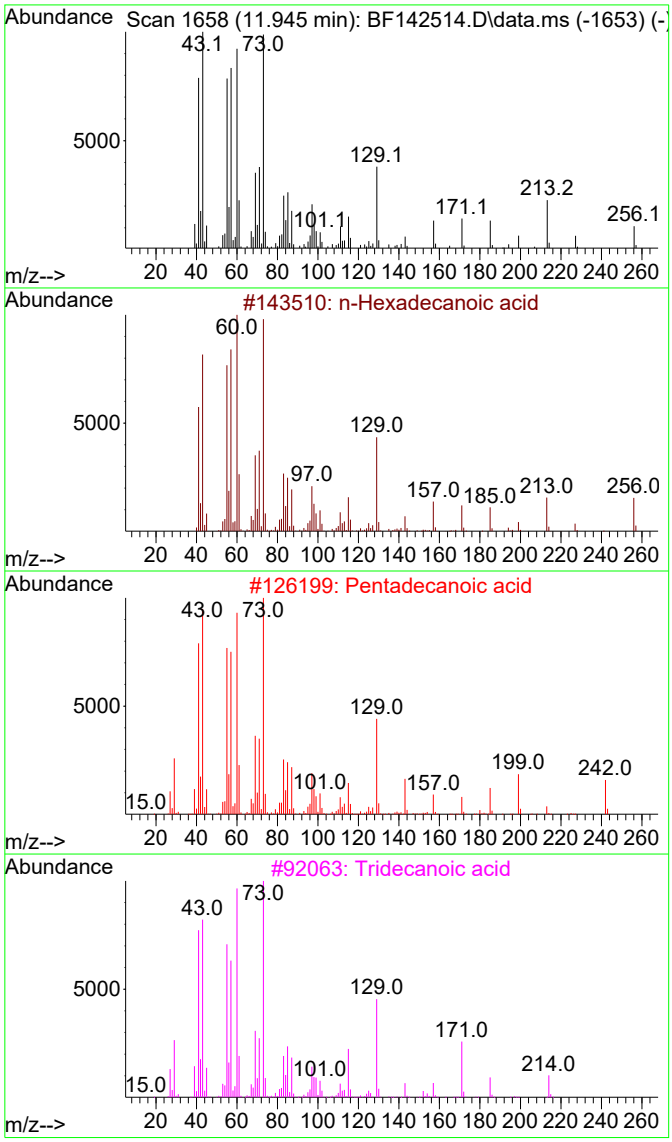
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

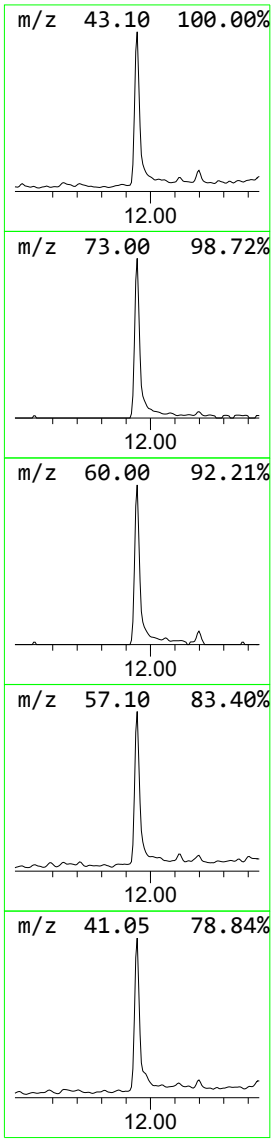
****

Peak Number 4 n-Hexadecanoic acid Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.945	5.42 ng	216257	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	90
3	Tridecanoic acid	214	C13H26O2	000638-53-9	89
4	Tetradecanoic acid	228	C14H28O2	000544-63-8	83
5	Undecanoic acid	186	C11H22O2	000112-37-8	70





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052225\
Data File : BF142514.D
Acq On : 22 May 2025 17:03
Operator : RC/JU
Sample : Q2074-03
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-15

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

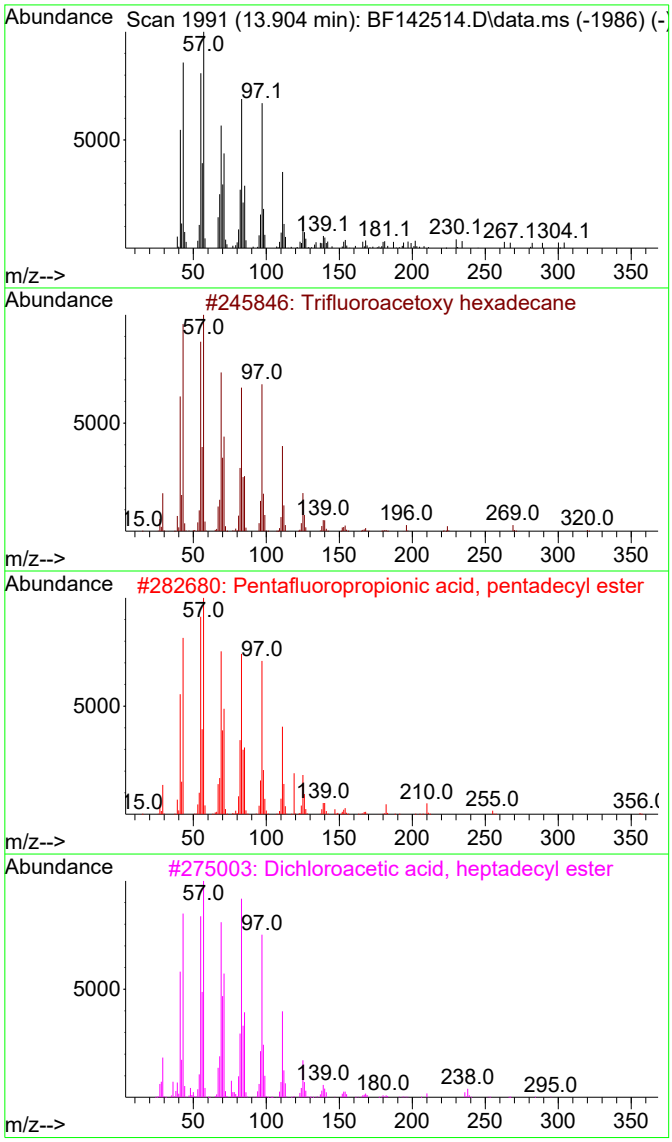
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

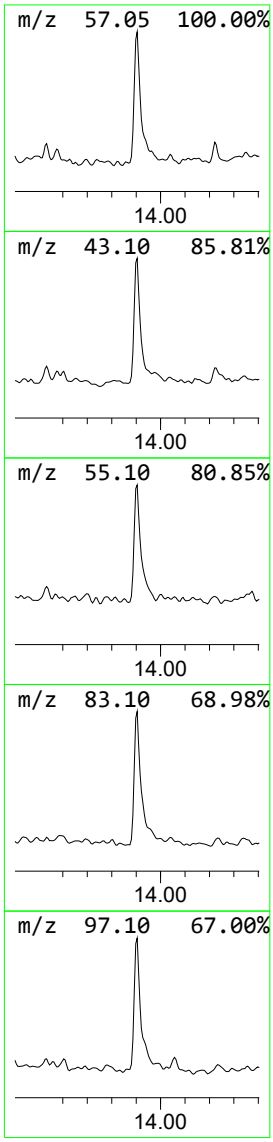
****

Peak Number 5 Trifluoroacetoxy hexadecane Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.904	4.01 ng	120598	Chrysene-d12	14.063

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Trifluoroacetoxy hexadecane	338	C18H33F3O2	006222-03-3	95
2	Pentafluoropropionic acid, penta...	374	C18H31F5O2	959092-08-1	95
3	Dichloroacetic acid, heptadecyl ...	366	C19H36Cl2O2	1000282-98-2	95
4	Pentafluoropropionic acid, hexad...	388	C19H33F5O2	006222-07-7	93
5	Trifluoroacetic acid, pentadecyl...	324	C17H31F3O2	959010-23-2	93





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052225\
Data File : BF142514.D
Acq On : 22 May 2025 17:03
Operator : RC/JU
Sample : Q2074-03
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-15

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	184184	1	6.898	625296	20.0
Benzophenone	10.645	11.7	ng	474124	3	9.934	807665	20.0
Methanone, (1-h...	10.957	2.2	ng	88008	4	11.422	798504	20.0
n-Hexadecanoic ...	11.945	5.4	ng	216257	4	11.422	798504	20.0
Trifluoroacetox...	13.904	4.0	ng	120598	5	14.063	600979	20.0

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052125\
Data File : BF142482.D
Acq On : 21 May 2025 12:43
Operator : RC/JU
Sample : Q2074-04
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-20

Quant Time: May 21 13:16:09 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

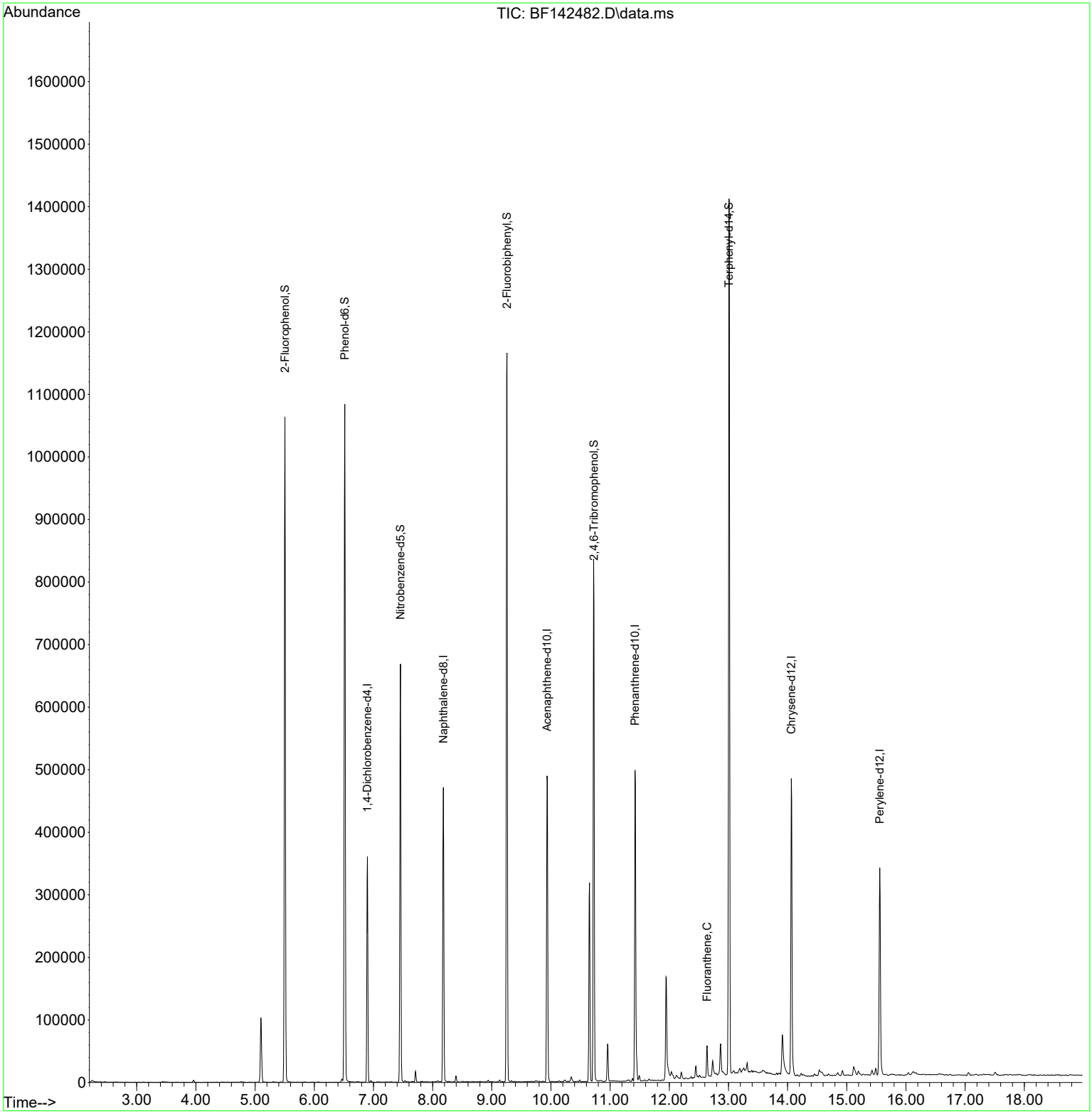
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.898	152	78241	20.000	ng	0.00
21) Naphthalene-d8	8.181	136	292583	20.000	ng	0.00
39) Acenaphthene-d10	9.933	164	152289	20.000	ng	-0.01
64) Phenanthrene-d10	11.422	188	263354	20.000	ng	-0.01
76) Chrysene-d12	14.063	240	229725	20.000	ng	-0.01
86) Perylene-d12	15.557	264	197920	20.000	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.504	112	401727	86.503	ng	-0.01
7) Phenol-d6	6.516	99	490496	87.740	ng	-0.02
23) Nitrobenzene-d5	7.457	82	271981	50.689	ng	-0.02
42) 2,4,6-Tribromophenol	10.728	330	144980	85.776	ng	-0.01
45) 2-Fluorobiphenyl	9.257	172	528742	46.589	ng	-0.01
79) Terphenyl-d14	13.010	244	673227	40.048	ng	0.00
Target Compounds						Qvalue
75) Fluoranthene	12.639	202	29099	2.213	ng	98

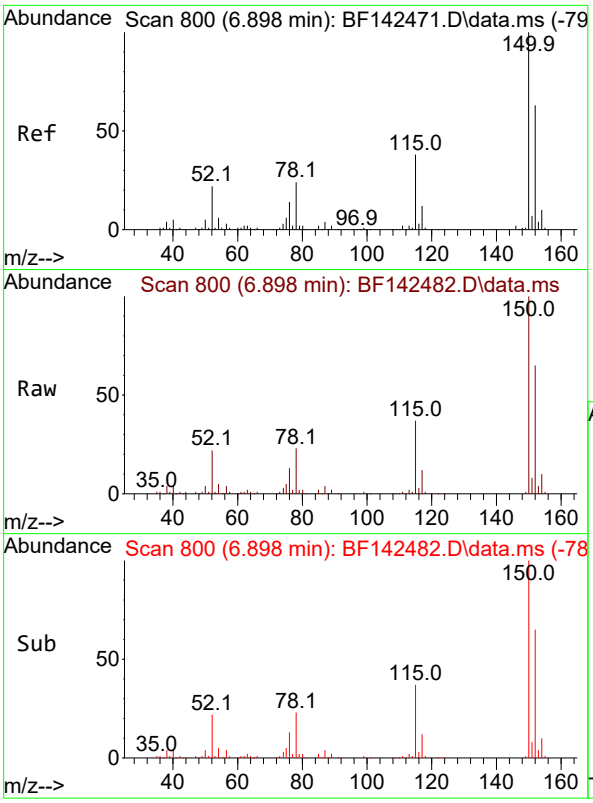
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052125\
Data File : BF142482.D
Acq On : 21 May 2025 12:43
Operator : RC/JU
Sample : Q2074-04
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-20

Quant Time: May 21 13:16:09 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



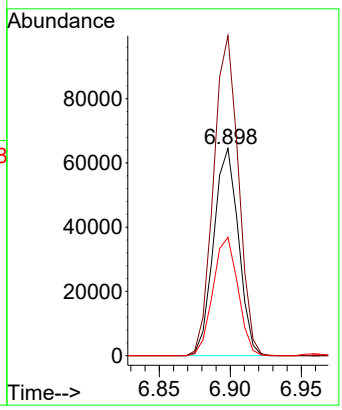


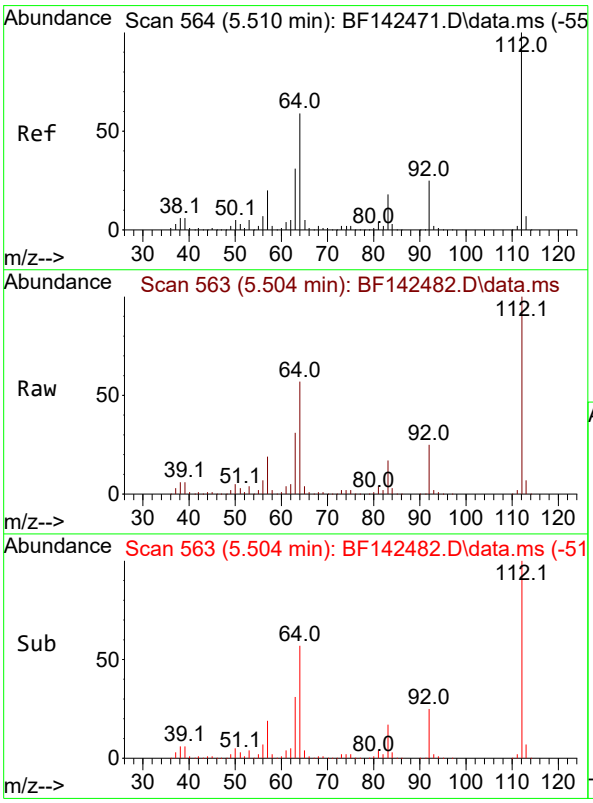
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.898 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF142482.D
Acq: 21 May 2025 12:43

Instrument :
BNA_F
ClientSampleId :
TP-20

Tgt Ion:152 Resp: 78241

Ion	Ratio	Lower	Upper
152	100		
150	154.4	128.2	192.4
115	57.1	48.3	72.5

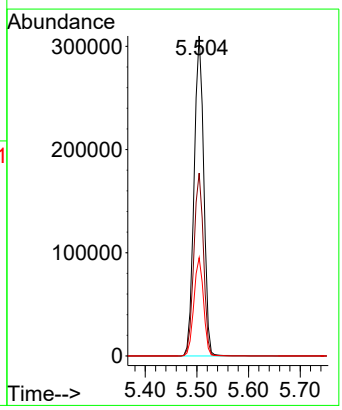


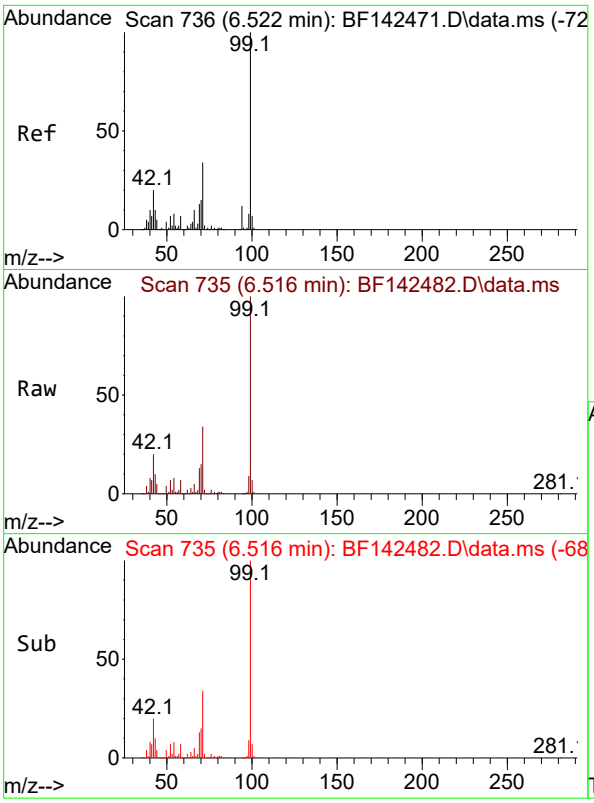


#5
2-Fluorophenol
Concen: 86.503 ng
RT: 5.504 min Scan# 563
Delta R.T. -0.012 min
Lab File: BF142482.D
Acq: 21 May 2025 12:43

Tgt Ion:112 Resp: 401727

Ion	Ratio	Lower	Upper
112	100		
64	57.1	47.5	71.3
63	30.7	24.9	37.3



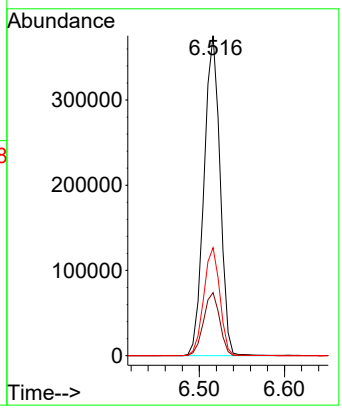


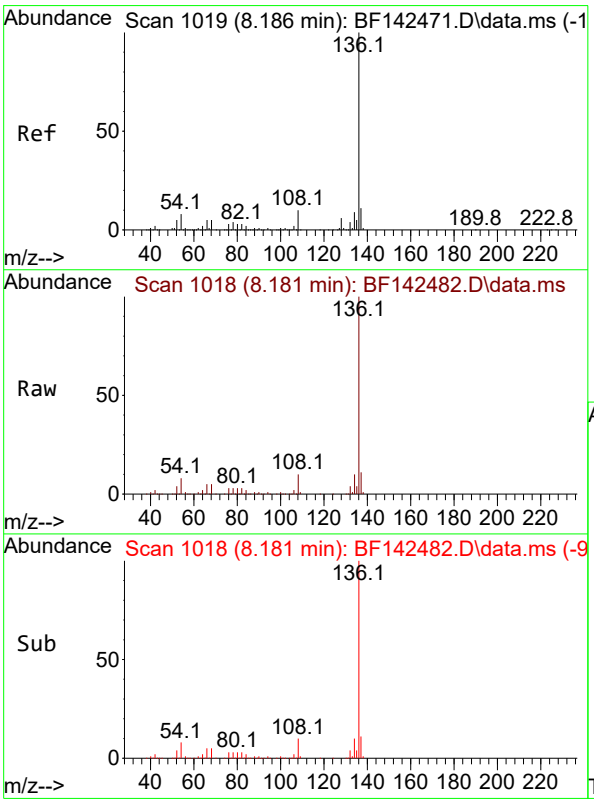
#7
Phenol-d6
Concen: 87.740 ng
RT: 6.516 min Scan# 7
Delta R.T. -0.017 min
Lab File: BF142482.D
Acq: 21 May 2025 12:43

Instrument :
BNA_F
ClientSampleId :
TP-20

Tgt Ion: 99 Resp: 490496

Ion	Ratio	Lower	Upper
99	100		
42	19.7	16.2	24.2
71	33.8	27.3	40.9

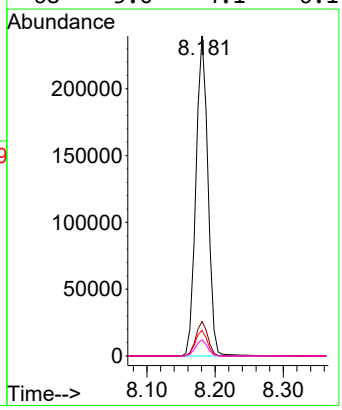


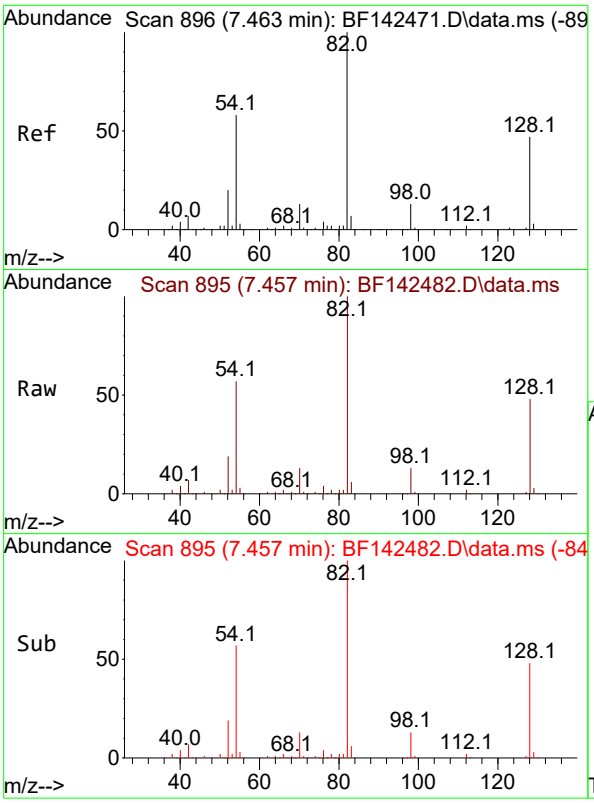


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.181 min Scan# 1018
Delta R.T. -0.006 min
Lab File: BF142482.D
Acq: 21 May 2025 12:43

Tgt Ion:136 Resp: 292583

Ion	Ratio	Lower	Upper
136	100		
137	10.7	8.6	13.0
54	8.0	6.6	10.0
68	5.0	4.1	6.1



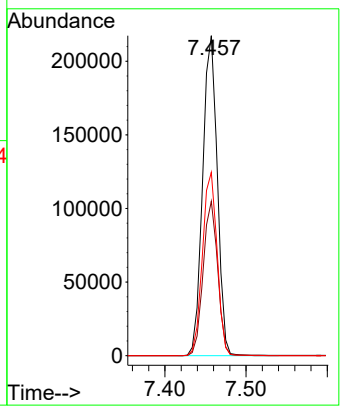


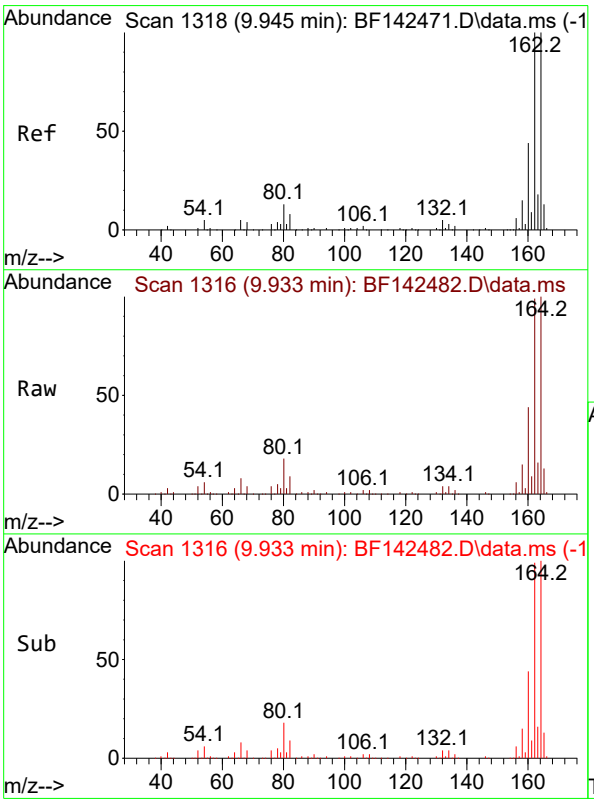
#23
Nitrobenzene-d5
Concen: 50.689 ng
RT: 7.457 min Scan# 8
Delta R.T. -0.017 min
Lab File: BF142482.D
Acq: 21 May 2025 12:43

Instrument :
BNA_F
ClientSampleId :
TP-20

Tgt Ion: 82 Resp: 271981

Ion	Ratio	Lower	Upper
82	100		
128	48.3	37.4	56.2
54	57.3	46.6	70.0

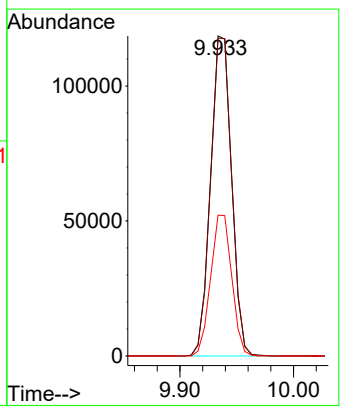


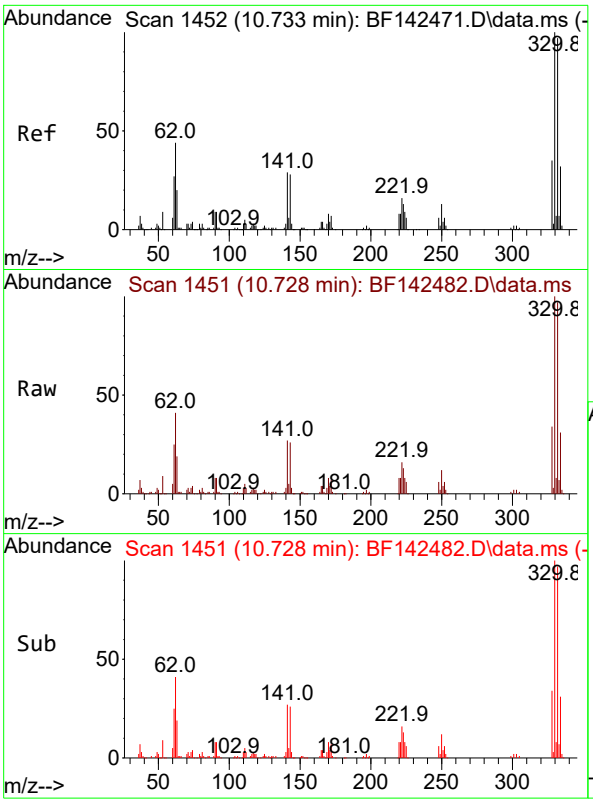


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.933 min Scan# 1316
Delta R.T. -0.012 min
Lab File: BF142482.D
Acq: 21 May 2025 12:43

Tgt Ion:164 Resp: 152289

Ion	Ratio	Lower	Upper
164	100		
162	99.3	80.2	120.4
160	44.0	35.6	53.4



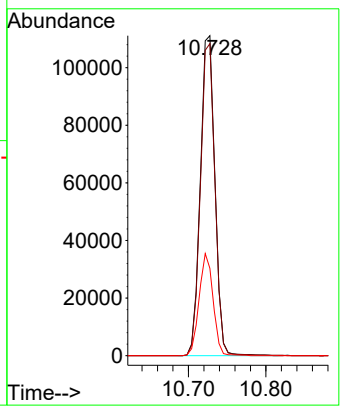


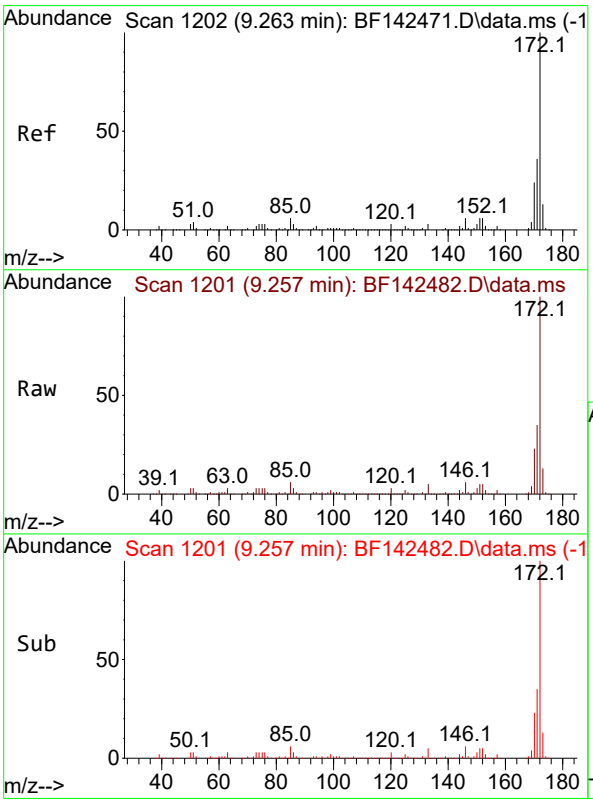
#42
2,4,6-Tribromophenol
Concen: 85.776 ng
RT: 10.728 min Scan# 14
Delta R.T. -0.012 min
Lab File: BF142482.D
Acq: 21 May 2025 12:43

Instrument :
BNA_F
ClientSampleId :
TP-20

Tgt Ion:330 Resp: 144980

Ion	Ratio	Lower	Upper
330	100		
332	97.1	77.6	116.4
141	30.6	24.6	36.8

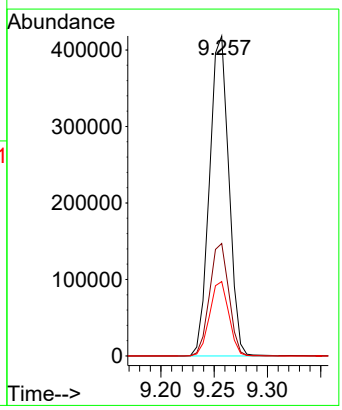


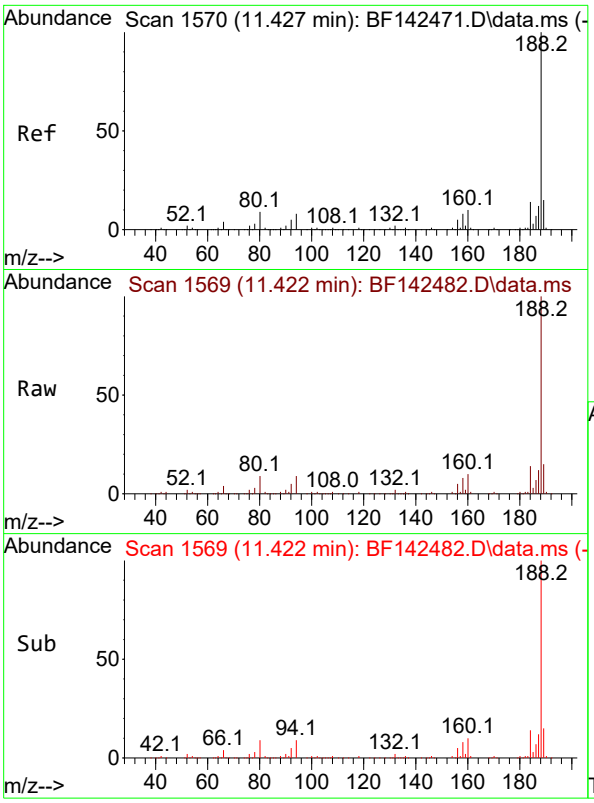


#45
2-Fluorobiphenyl
Concen: 46.589 ng
RT: 9.257 min Scan# 1201
Delta R.T. -0.012 min
Lab File: BF142482.D
Acq: 21 May 2025 12:43

Tgt Ion:172 Resp: 528742

Ion	Ratio	Lower	Upper
172	100		
171	35.1	28.6	42.8
170	23.2	18.9	28.3



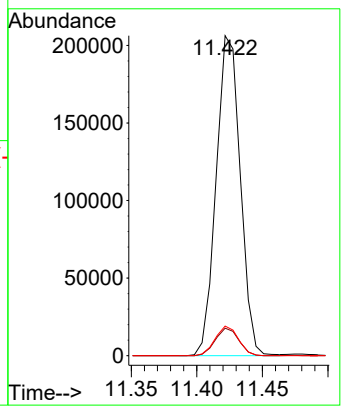


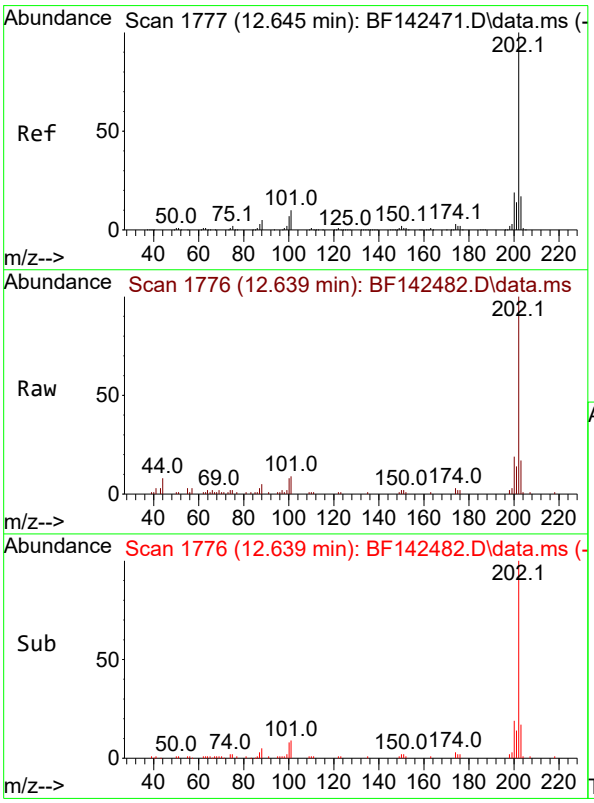
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.422 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF142482.D
Acq: 21 May 2025 12:43

Instrument :
BNA_F
ClientSampleId :
TP-20

Tgt Ion:188 Resp: 263354

Ion	Ratio	Lower	Upper
188	100		
94	8.6	6.6	10.0
80	9.3	7.4	11.0

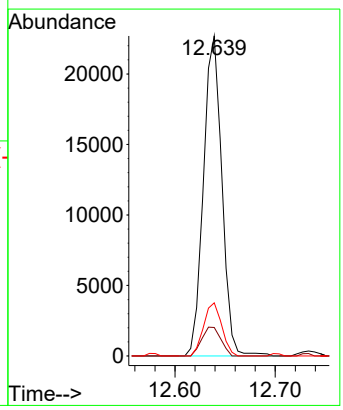


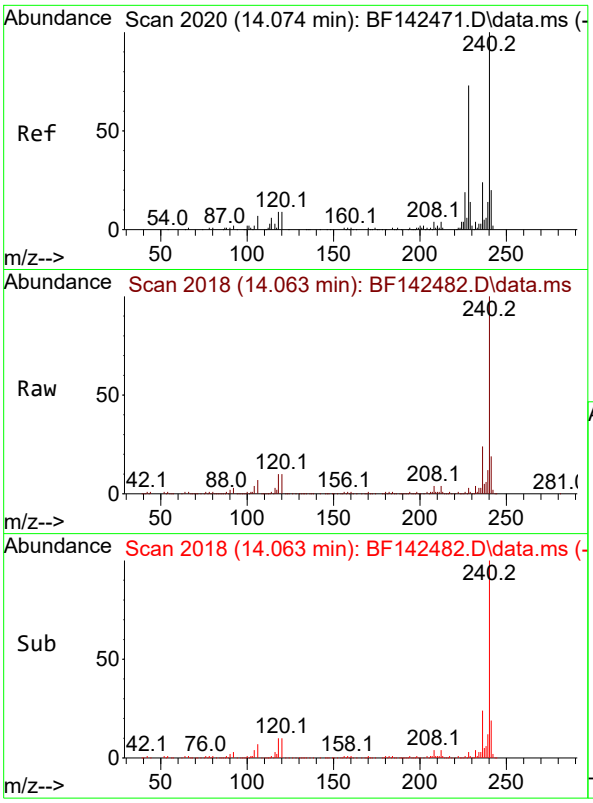


#75
Fluoranthene
Concen: 2.213 ng
RT: 12.639 min Scan# 1776
Delta R.T. -0.006 min
Lab File: BF142482.D
Acq: 21 May 2025 12:43

Tgt Ion:202 Resp: 29099

Ion	Ratio	Lower	Upper
202	100		
101	8.9	0.0	29.6
203	16.6	0.0	37.2



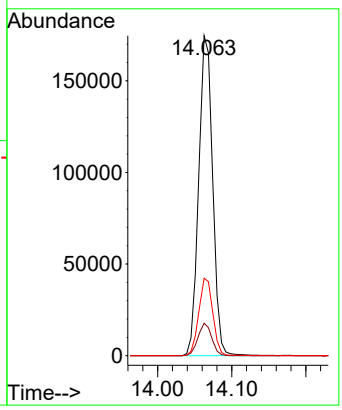


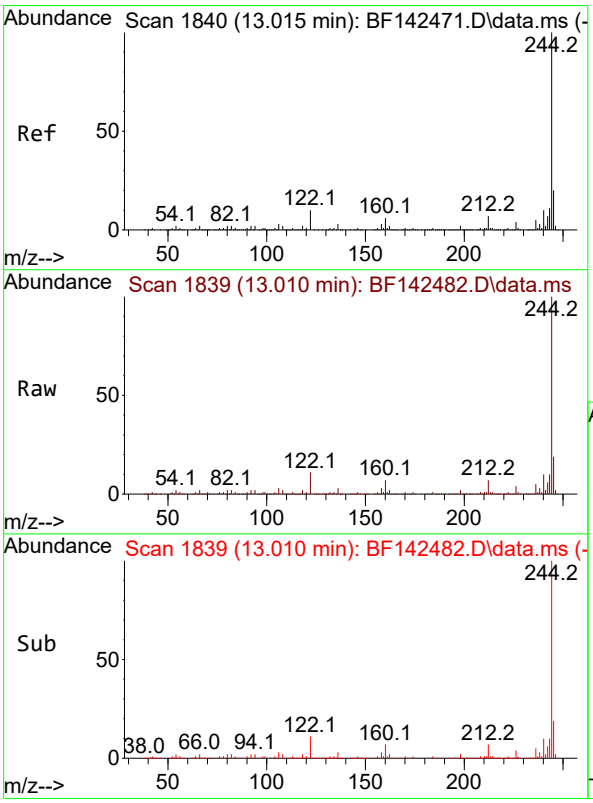
#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.063 min Scan# 2
Delta R.T. -0.012 min
Lab File: BF142482.D
Acq: 21 May 2025 12:43

Instrument :
BNA_F
ClientSampleId :
TP-20

Tgt Ion:240 Resp: 229725

Ion	Ratio	Lower	Upper
240	100		
120	10.1	7.5	11.3
236	24.2	19.6	29.4

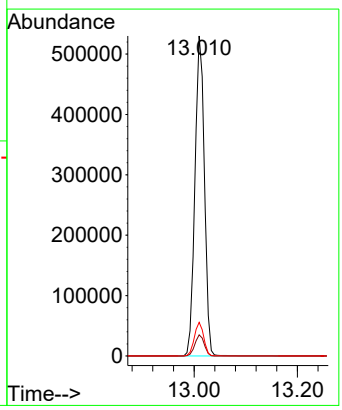


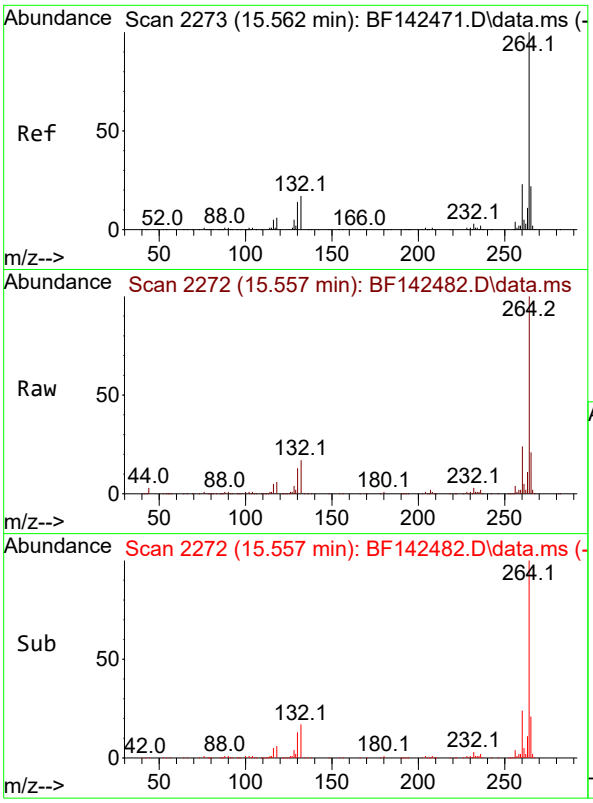


#79
Terphenyl-d14
Concen: 40.048 ng
RT: 13.010 min Scan# 1839
Delta R.T. -0.006 min
Lab File: BF142482.D
Acq: 21 May 2025 12:43

Tgt Ion:244 Resp: 673227

Ion	Ratio	Lower	Upper
244	100		
212	6.6	5.3	7.9
122	10.5	8.2	12.2



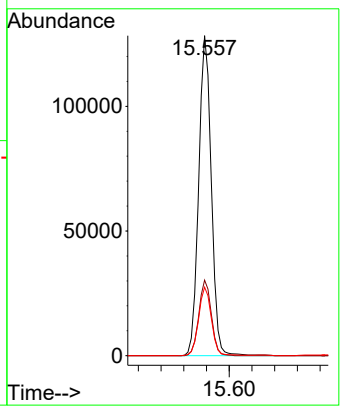


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.557 min Scan# 2
Delta R.T. -0.012 min
Lab File: BF142482.D
Acq: 21 May 2025 12:43

Instrument :
BNA_F
ClientSampleId :
TP-20

Tgt Ion:264 Resp: 197920

Ion	Ratio	Lower	Upper
264	100		
260	23.6	18.6	28.0
265	21.4	17.7	26.5



Sample Results: **BF142482.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052125\
Data File : BF142482.D
Acq On : 21 May 2025 12:43
Operator : RC/JU
Sample : Q2074-04
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-20

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: BF142482.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	5.099	483	494	502	rBV	103162	150758	8.54%	1.180%
2	5.504	557	563	568	rBV	1063806	1374120	77.85%	10.757%
3	6.516	729	735	740	rBV	1081324	1421529	80.53%	11.128%
4	6.898	795	800	805	rBV	360762	439349	24.89%	3.439%
5	7.457	889	895	900	rBV	668365	831482	47.10%	6.509%
6	7.710	934	938	944	rVB	16763	20140	1.14%	0.158%
7	8.181	1013	1018	1023	rBV	470756	568855	32.23%	4.453%
8	9.257	1195	1201	1206	rBV	1164914	1482217	83.97%	11.603%
9	9.933	1311	1316	1324	rBV	488928	628084	35.58%	4.917%
10	10.651	1432	1438	1443	rBV	317894	393861	22.31%	3.083%
11	10.722	1445	1450	1456	rBV	834896	1059814	60.04%	8.296%
12	10.957	1481	1490	1495	rBV	60159	76250	4.32%	0.597%
13	11.422	1564	1569	1577	rBV	496689	670577	37.99%	5.249%
14	11.945	1651	1658	1670	rBV3	165041	279252	15.82%	2.186%
15	12.033	1670	1673	1682	rVB4	11107	25412	1.44%	0.199%
16	12.451	1739	1744	1747	rBV	18815	25683	1.45%	0.201%
17	12.639	1771	1776	1782	rBV	50441	67011	3.80%	0.525%
18	12.733	1787	1792	1799	rBV	24007	42367	2.40%	0.332%
19	12.869	1810	1815	1820	rBV	46640	64032	3.63%	0.501%
20	13.010	1834	1839	1844	rBV	1398903	1765191	100.00%	13.818%
21	13.316	1888	1891	1896	rVB4	14598	17725	1.00%	0.139%
22	13.910	1987	1992	2010	rBV	63396	146951	8.32%	1.150%
23	14.063	2013	2018	2029	rVB	474627	658371	37.30%	5.154%
24	14.533	2094	2098	2104	rBV6	8798	20257	1.15%	0.159%
25	15.116	2193	2197	2207	rBV	13275	29870	1.69%	0.234%
26	15.557	2266	2272	2286	rVB	331033	515210	29.19%	4.033%

Sum of corrected areas: 12774368

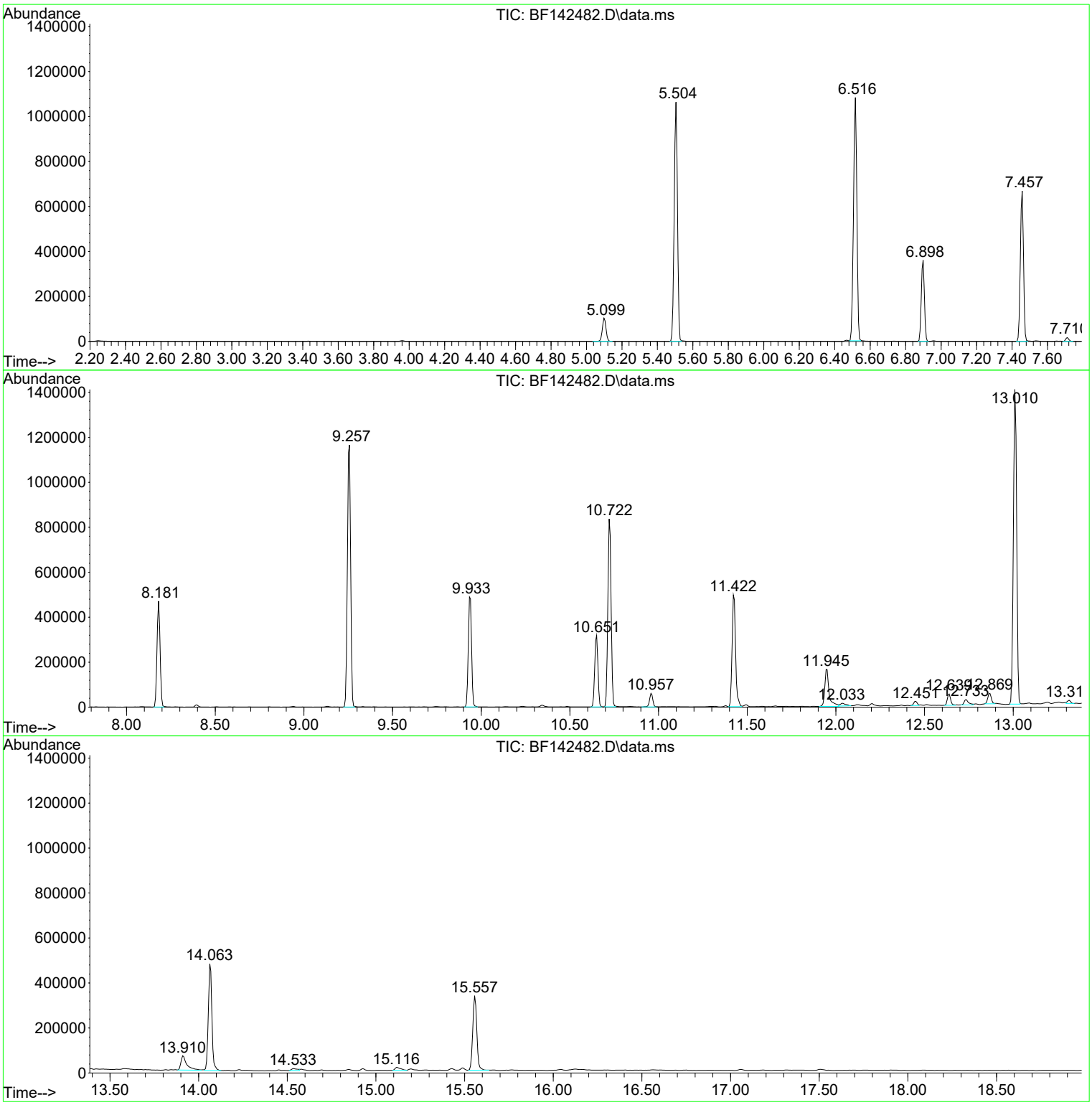
Sample Results: **BF142482.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052125\
Data File : BF142482.D
Acq On : 21 May 2025 12:43
Operator : RC/JU
Sample : Q2074-04
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-20

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\BF052125\
Data File : BF142482.D
Acq On : 21 May 2025 12:43
Operator : RC/JU
Sample : Q2074-04
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-20

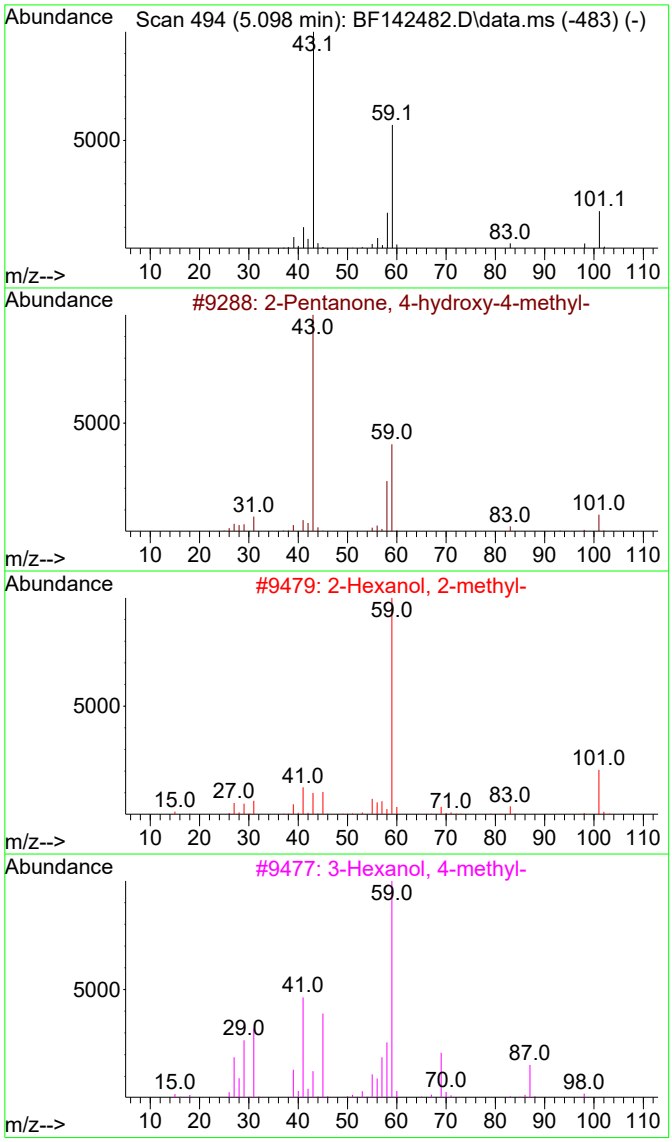
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

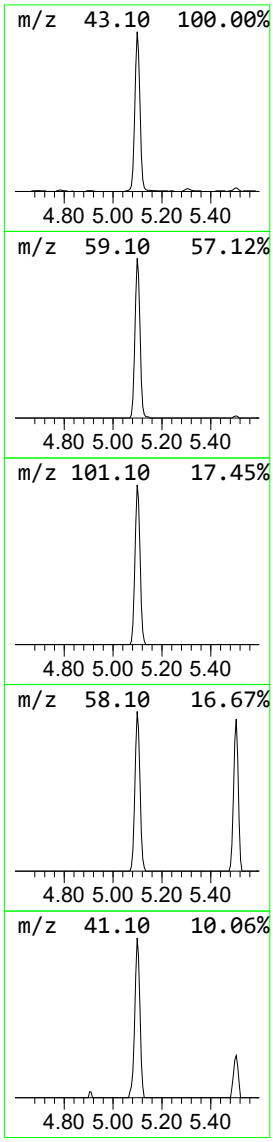
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.098	6.86 ng	150758	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	45
2	2-Hexanol, 2-methyl-	116	C7H16O	000625-23-0	40
3	3-Hexanol, 4-methyl-	116	C7H16O	000615-29-2	33
4	Acetic acid, cyano-, 1,1-dimethy...	141	C7H11NO2	001116-98-9	32
5	1-Propen-2-ol, acetate	100	C5H8O2	000108-22-5	12





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052125\
Data File : BF142482.D
Acq On : 21 May 2025 12:43
Operator : RC/JU
Sample : Q2074-04
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-20

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

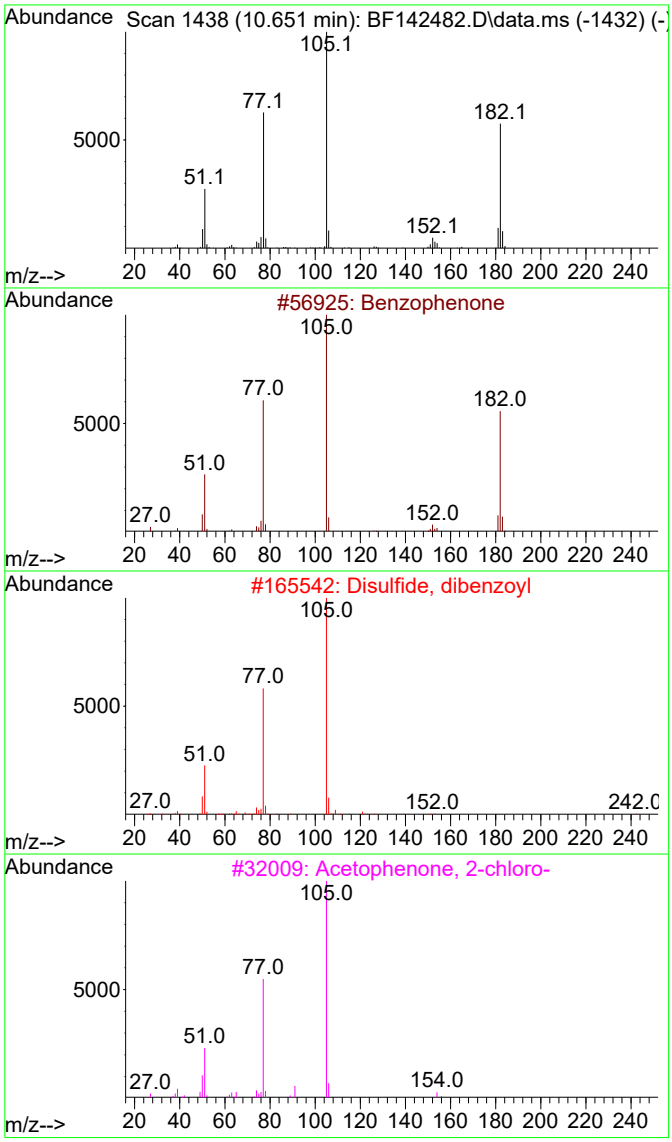
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

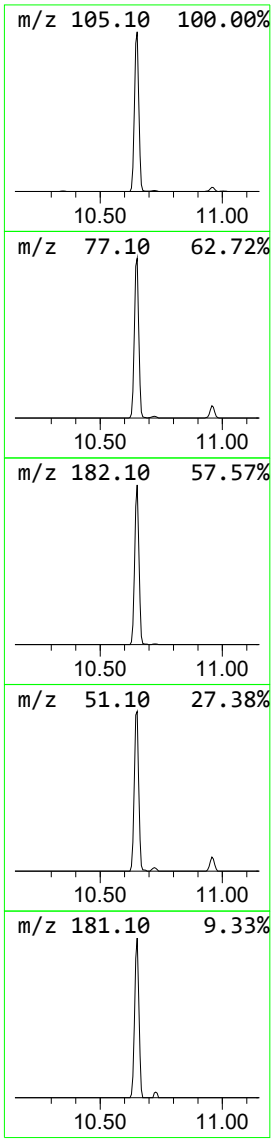
****

Peak Number 2 Benzophenone Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.651	12.54 ng	393861	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	Acetophenone, 2-chloro-	154	C8H7ClO	000532-27-4	49
4	N-Methoxy-N-methylbenzamide	165	C9H11NO2	006919-61-5	47
5	acetic acid, 2-bromo-, 2-oxo-2-p...	256	C10H9BrO3	1000401-50-0	47





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052125\
Data File : BF142482.D
Acq On : 21 May 2025 12:43
Operator : RC/JU
Sample : Q2074-04
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-20

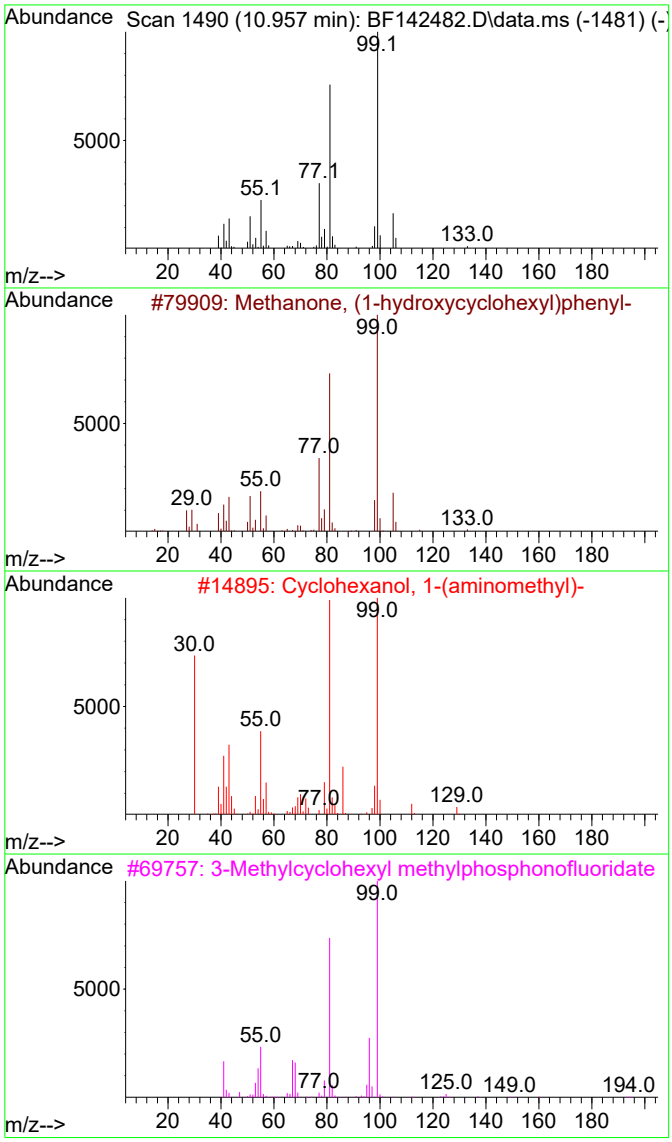
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

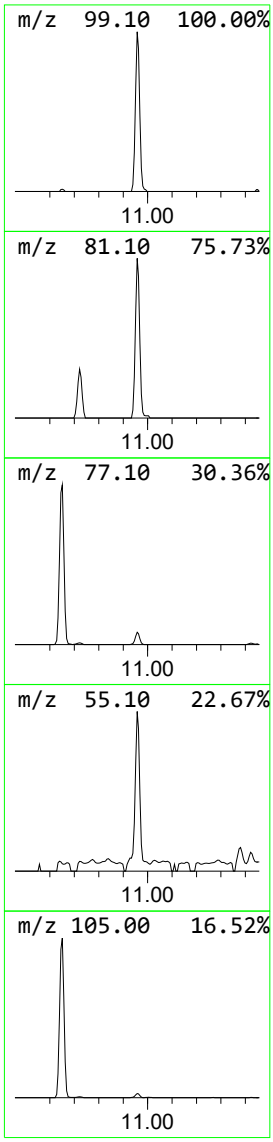
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 3 Methanone, (1-hydroxycycloh... Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.957	2.27 ng	76250	Phenanthrene-d10	11.422

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Methanone, (1-hydroxycyclohexyl)...	204	C13H16O2	000947-19-3	91
2	Cyclohexanol, 1-(aminomethyl)-	129	C7H15NO	004000-72-0	50
3	3-Methylcyclohexyl methylphospho...	194	C8H16FO2P	113548-86-0	45
4	1-Hydroxycyclohexanecarboxylic acid	144	C7H12O3	001123-28-0	45
5	2-Methylcyclosarin	194	C8H16FO2P	085473-32-1	42





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052125\
Data File : BF142482.D
Acq On : 21 May 2025 12:43
Operator : RC/JU
Sample : Q2074-04
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-20

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

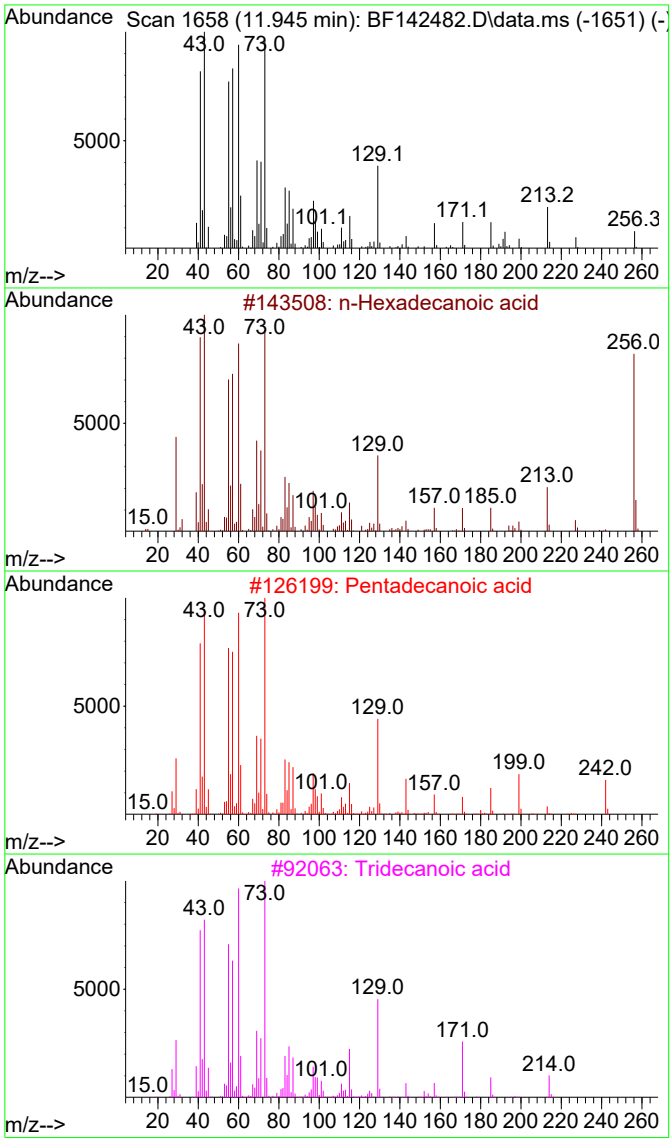
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

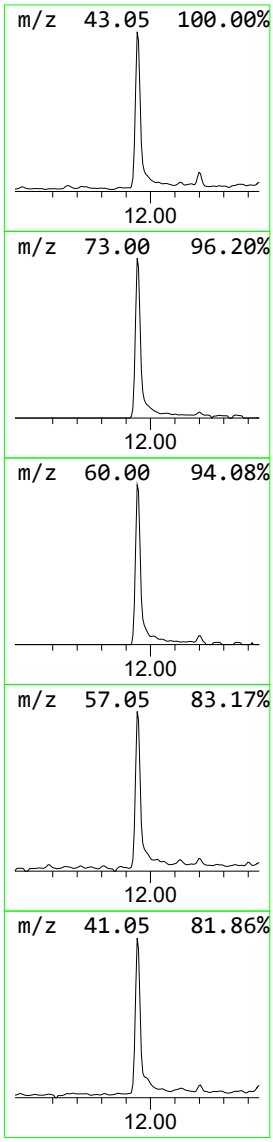
****

Peak Number 4 n-Hexadecanoic acid Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.945	8.33 ng	279252	Phenanthrene-d10	11.422

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	98
2	Pentadecanoic acid	242	C15H30O2	001002-84-2	91
3	Tridecanoic acid	214	C13H26O2	000638-53-9	70
4	n-Decanoic acid	172	C10H20O2	000334-48-5	70
5	Undecanoic acid	186	C11H22O2	000112-37-8	64





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052125\
Data File : BF142482.D
Acq On : 21 May 2025 12:43
Operator : RC/JU
Sample : Q2074-04
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-20

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

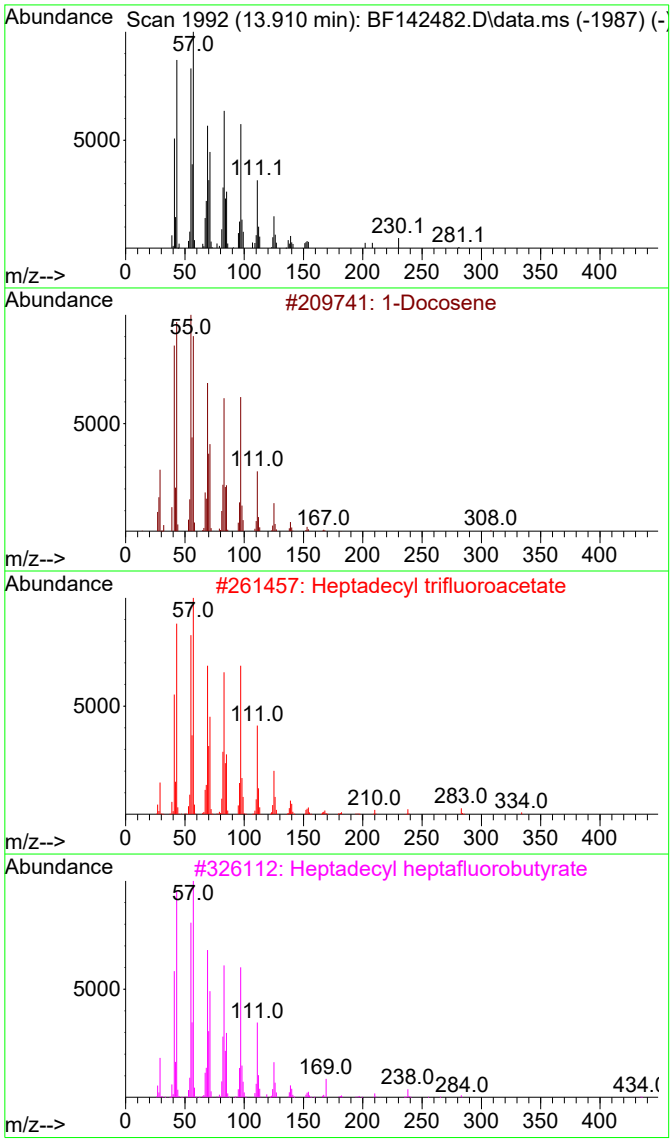
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

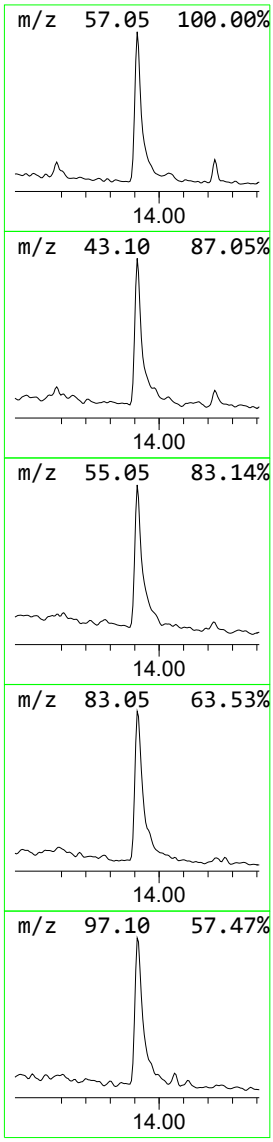
****

Peak Number 5 1-Docosene Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.910	4.46 ng	146951	Chrysene-d12	14.063

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Docosene	308	C22H44	001599-67-3	94
2	Heptadecyl trifluoroacetate	352	C19H35F3O2	1010351-87-0	94
3	Heptadecyl heptafluorobutyrate	452	C21H35F7O2	959085-66-6	93
4	Pentadecafluorooctanoic acid, oc...	666	C26H37F15O2	1000406-04-8	93
5	1-Heneicosanol	312	C21H44O	015594-90-8	93





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052125\
Data File : BF142482.D
Acq On : 21 May 2025 12:43
Operator : RC/JU
Sample : Q2074-04
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-20

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-...	5.098	6.9	ng	150758	1	6.898	439349	20.0
Benzophenone	10.651	12.5	ng	393861	3	9.933	628084	20.0
Methanone, (1-h...	10.957	2.3	ng	76250	4	11.422	670577	20.0
n-Hexadecanoic ...	11.945	8.3	ng	279252	4	11.422	670577	20.0
1-Docosene	13.910	4.5	ng	146951	5	14.063	658371	20.0

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052225\
Data File : BF142505.D
Acq On : 22 May 2025 12:42
Operator : RC/JU
Sample : Q2074-05
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-38

Quant Time: May 22 13:04:55 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 20 16:26:47 2025
Response via : Initial Calibration

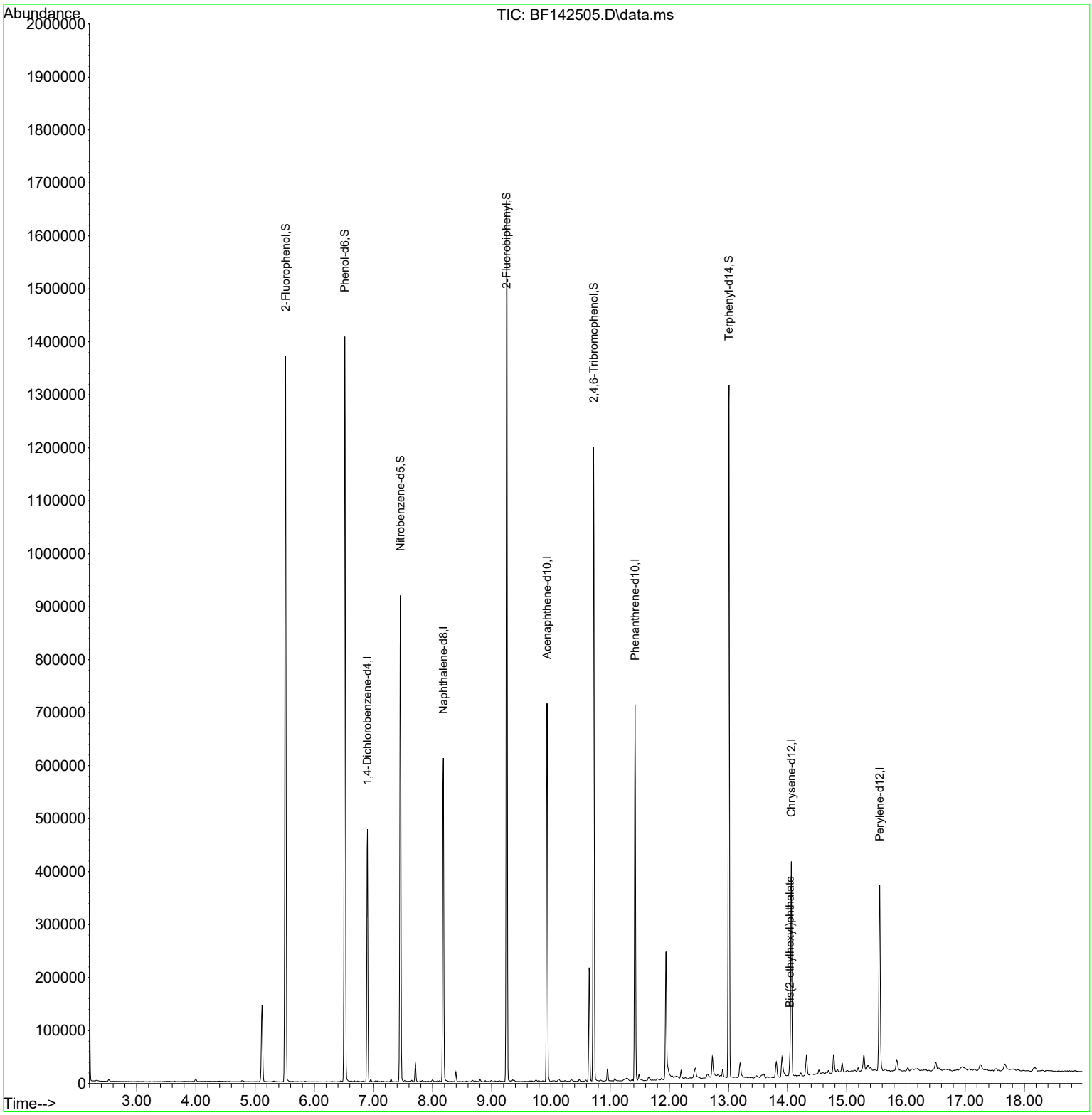
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.898	152	105231	20.000	ng	0.00
21) Naphthalene-d8	8.181	136	393023	20.000	ng	0.00
39) Acenaphthene-d10	9.934	164	211306	20.000	ng	-0.01
64) Phenanthrene-d10	11.422	188	363178	20.000	ng	-0.01
76) Chrysene-d12	14.063	240	195335	20.000	ng	-0.01
86) Perylene-d12	15.557	264	215007	20.000	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.516	112	541642	86.717	ng	0.00
7) Phenol-d6	6.516	99	659959	87.775	ng	-0.02
23) Nitrobenzene-d5	7.457	82	390239	54.143	ng	-0.02
42) 2,4,6-Tribromophenol	10.722	330	211748	90.289	ng	-0.02
45) 2-Fluorobiphenyl	9.251	172	746030	47.375	ng	-0.02
79) Terphenyl-d14	13.010	244	640217	44.789	ng	0.00
Target Compounds						Qvalue
84) Bis(2-ethylhexyl)phtha...	14.039	149	15913	2.469	ng	99

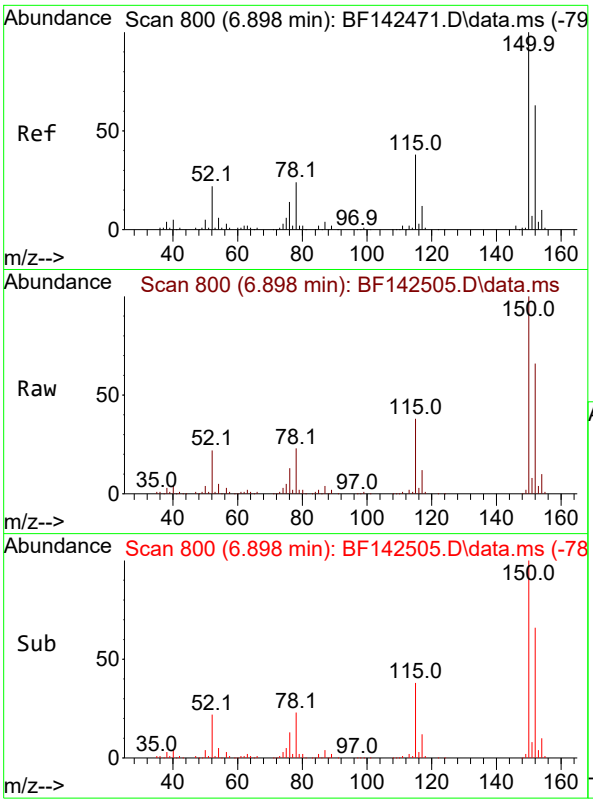
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052225\
Data File : BF142505.D
Acq On : 22 May 2025 12:42
Operator : RC/JU
Sample : Q2074-05
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-38

Quant Time: May 22 13:04:55 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 20 16:26:47 2025
Response via : Initial Calibration



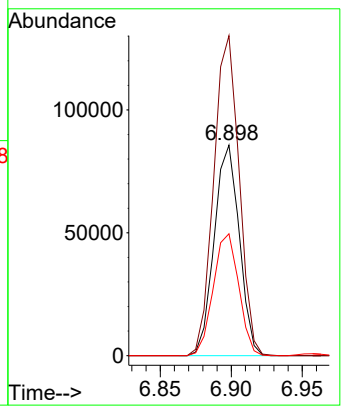


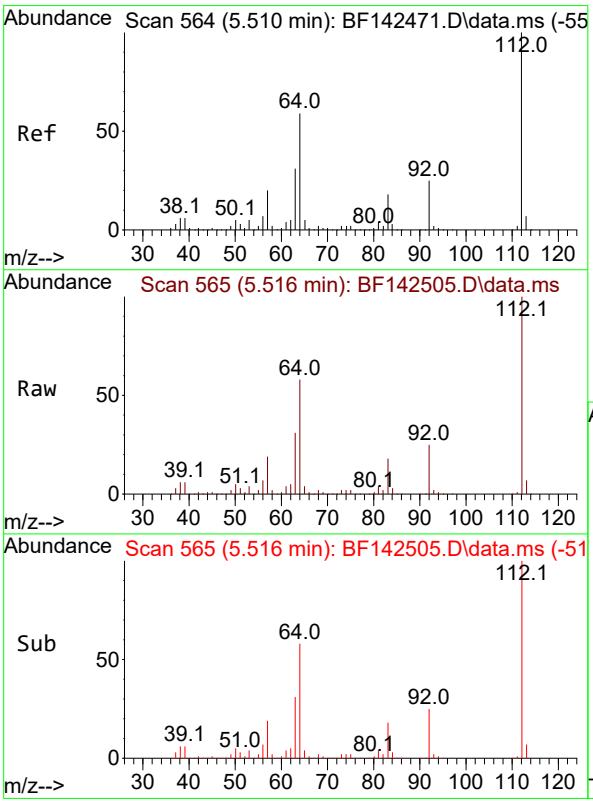
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.898 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF142505.D
Acq: 22 May 2025 12:42

Instrument :
BNA_F
ClientSampleId :
TP-38

Tgt Ion:152 Resp: 105231

Ion	Ratio	Lower	Upper
152	100		
150	152.0	128.2	192.4
115	57.9	48.3	72.5

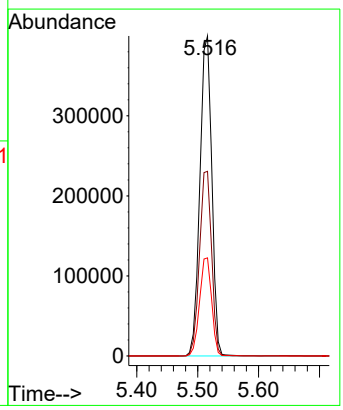


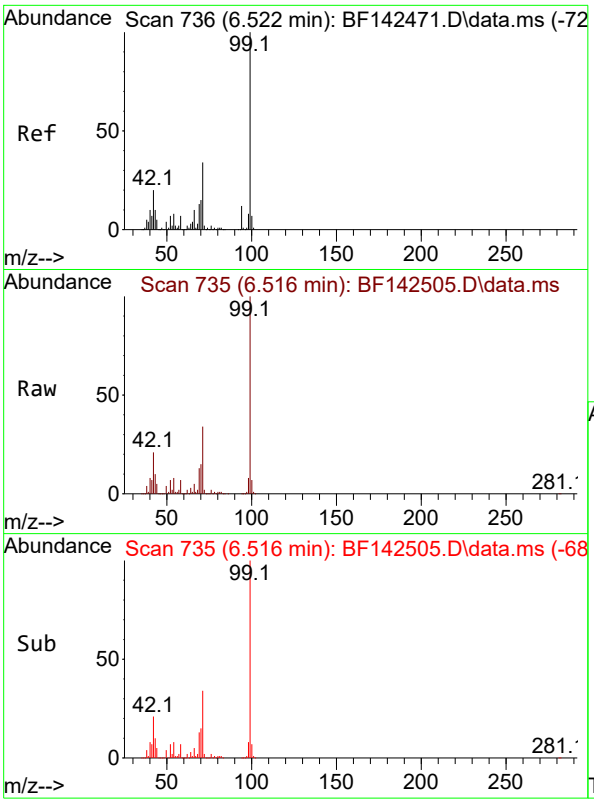


#5
2-Fluorophenol
Concen: 86.717 ng
RT: 5.516 min Scan# 565
Delta R.T. 0.000 min
Lab File: BF142505.D
Acq: 22 May 2025 12:42

Tgt Ion:112 Resp: 541642

Ion	Ratio	Lower	Upper
112	100		
64	57.7	47.5	71.3
63	30.7	24.9	37.3



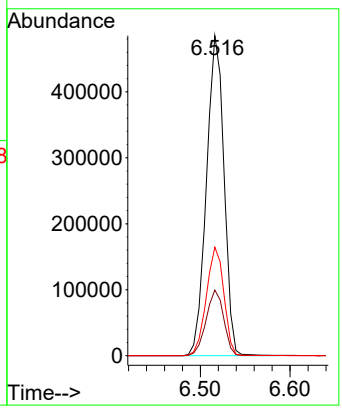


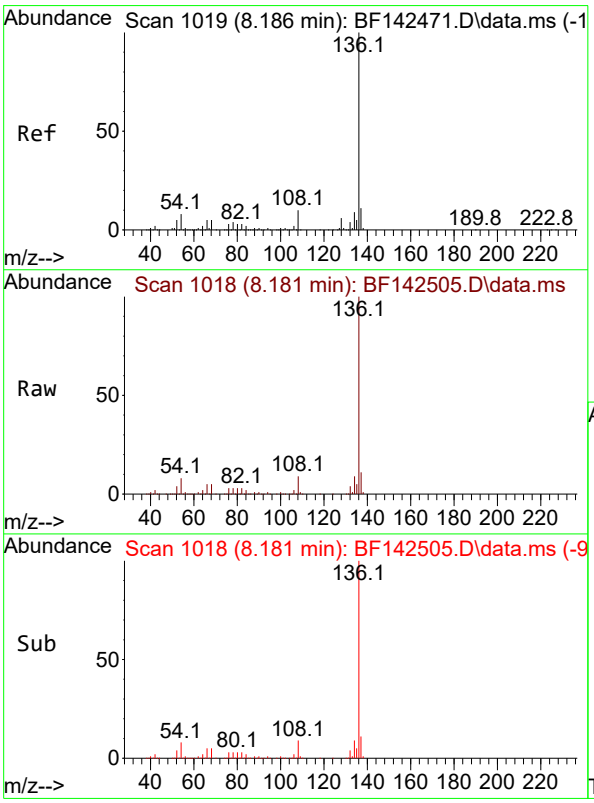
#7
Phenol-d6
Concen: 87.775 ng
RT: 6.516 min Scan# 7
Delta R.T. -0.017 min
Lab File: BF142505.D
Acq: 22 May 2025 12:42

Instrument :
BNA_F
ClientSampleId :
TP-38

Tgt Ion: 99 Resp: 659959

Ion	Ratio	Lower	Upper
99	100		
42	20.5	16.2	24.2
71	33.9	27.3	40.9

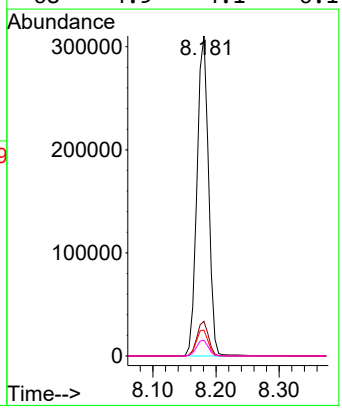


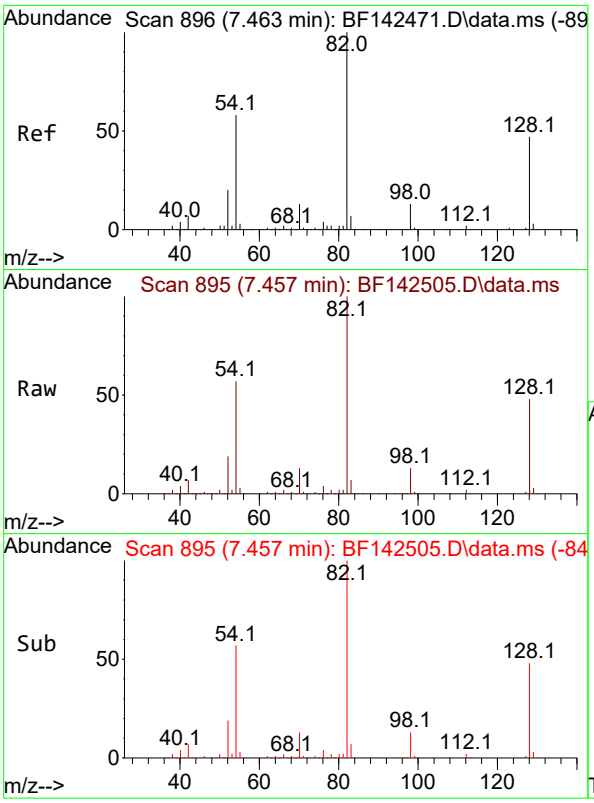


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.181 min Scan# 1018
Delta R.T. -0.006 min
Lab File: BF142505.D
Acq: 22 May 2025 12:42

Tgt Ion:136 Resp: 393023

Ion	Ratio	Lower	Upper
136	100		
137	10.8	8.6	13.0
54	8.1	6.6	10.0
68	4.9	4.1	6.1



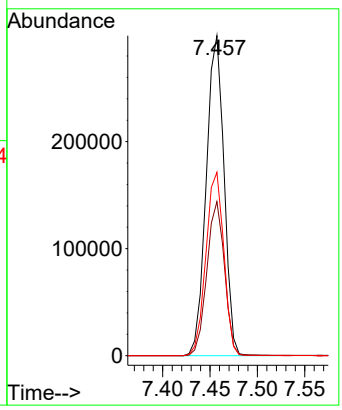


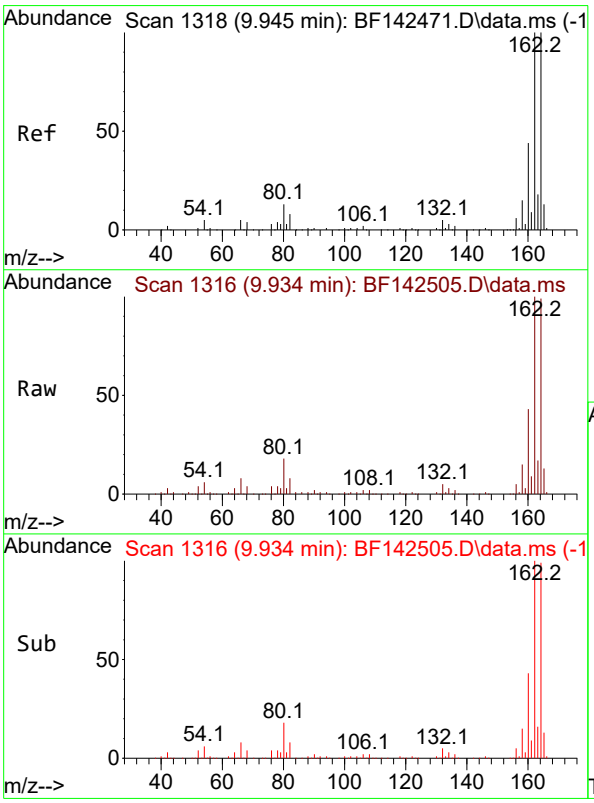
#23
Nitrobenzene-d5
Concen: 54.143 ng
RT: 7.457 min Scan# 8
Delta R.T. -0.017 min
Lab File: BF142505.D
Acq: 22 May 2025 12:42

Instrument :
BNA_F
ClientSampleId :
TP-38

Tgt Ion: 82 Resp: 390239

Ion	Ratio	Lower	Upper
82	100		
128	48.1	37.4	56.2
54	57.3	46.6	70.0

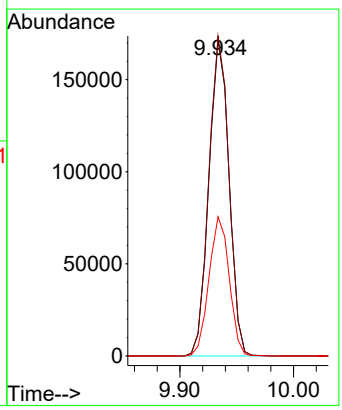


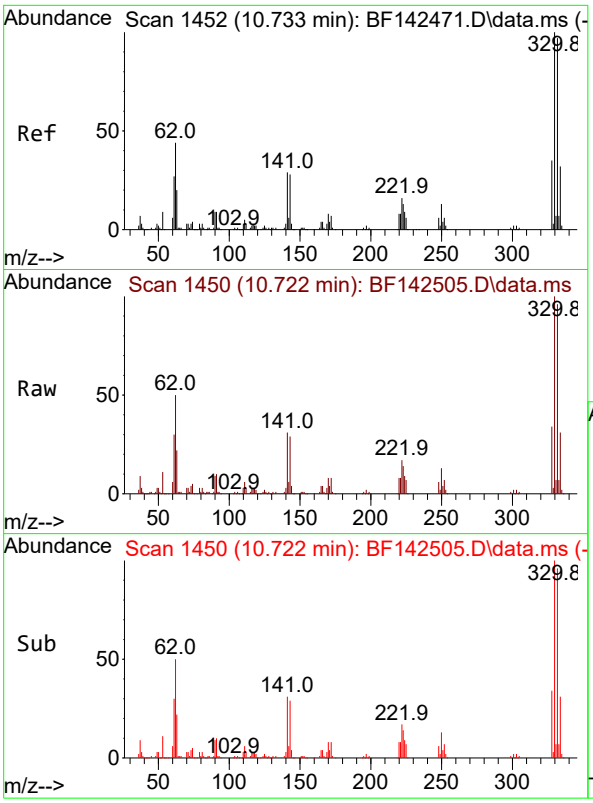


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.934 min Scan# 1316
Delta R.T. -0.012 min
Lab File: BF142505.D
Acq: 22 May 2025 12:42

Tgt Ion:164 Resp: 211306

Ion	Ratio	Lower	Upper
164	100		
162	101.3	80.2	120.4
160	44.0	35.6	53.4



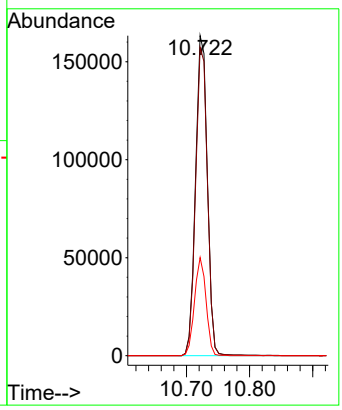


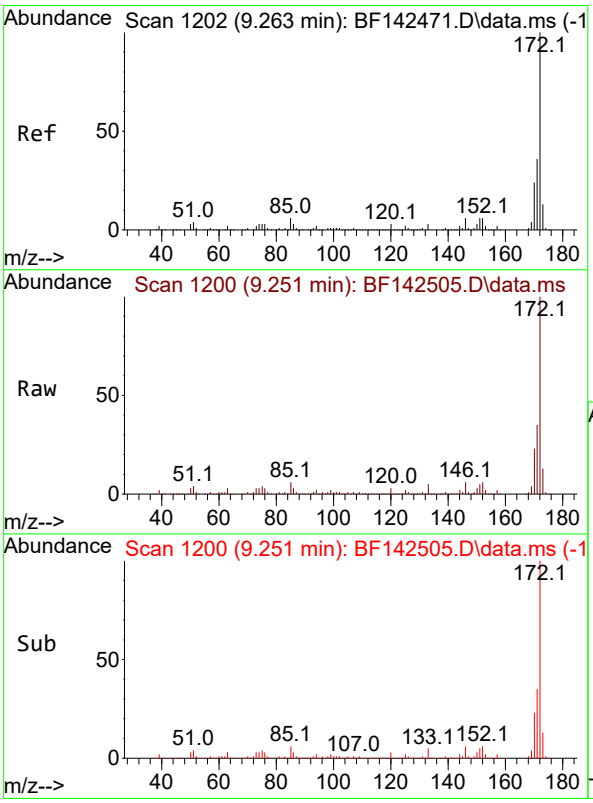
#42
2,4,6-Tribromophenol
Concen: 90.289 ng
RT: 10.722 min Scan# 14
Delta R.T. -0.017 min
Lab File: BF142505.D
Acq: 22 May 2025 12:42

Instrument :
BNA_F
ClientSampleId :
TP-38

Tgt Ion:330 Resp: 211748

Ion	Ratio	Lower	Upper
330	100		
332	96.5	77.6	116.4
141	29.9	24.6	36.8

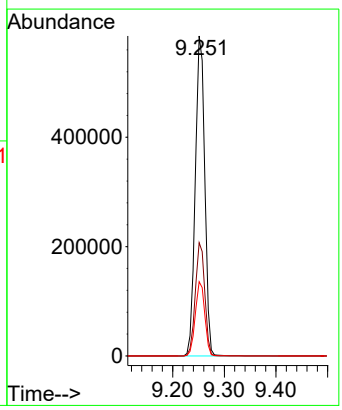


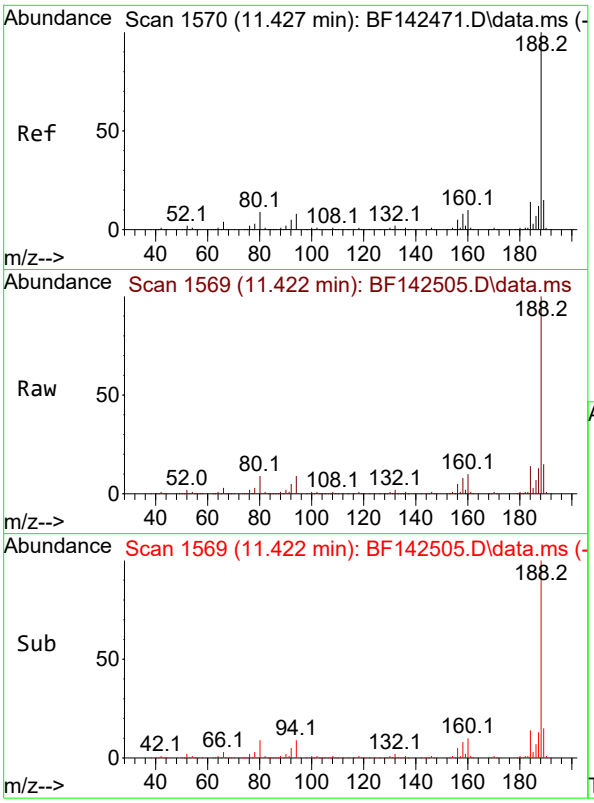


#45
2-Fluorobiphenyl
Concen: 47.375 ng
RT: 9.251 min Scan# 1200
Delta R.T. -0.017 min
Lab File: BF142505.D
Acq: 22 May 2025 12:42

Tgt Ion:172 Resp: 746030

Ion	Ratio	Lower	Upper
172	100		
171	35.4	28.6	42.8
170	23.2	18.9	28.3



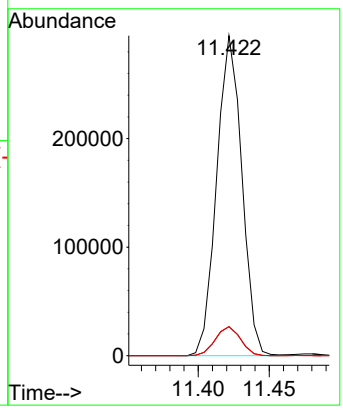


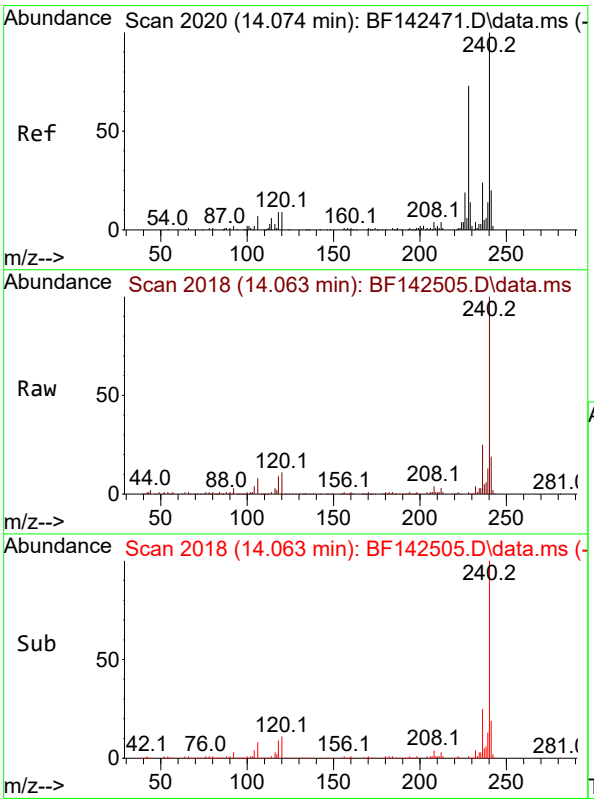
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.422 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF142505.D
Acq: 22 May 2025 12:42

Instrument :
BNA_F
ClientSampleId :
TP-38

Tgt Ion:188 Resp: 363178

Ion	Ratio	Lower	Upper
188	100		
94	9.0	6.6	10.0
80	9.1	7.4	11.0

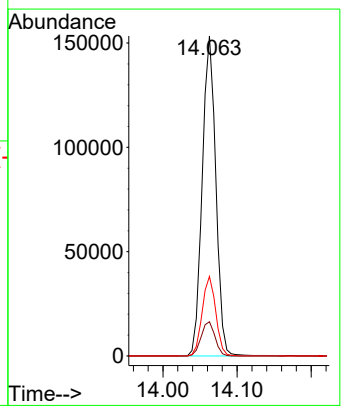


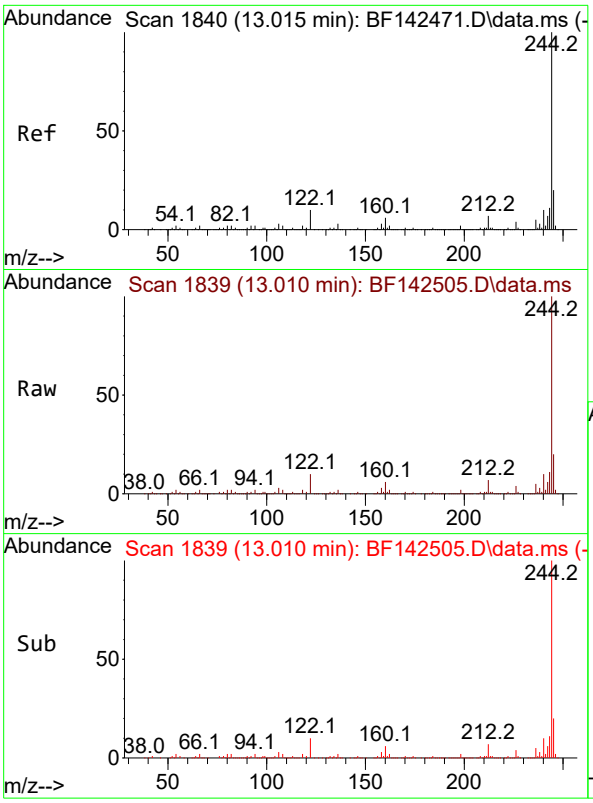


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.063 min Scan# 2018
Delta R.T. -0.012 min
Lab File: BF142505.D
Acq: 22 May 2025 12:42

Tgt Ion:240 Resp: 195335

Ion	Ratio	Lower	Upper
240	100		
120	10.7	7.5	11.3
236	24.9	19.6	29.4



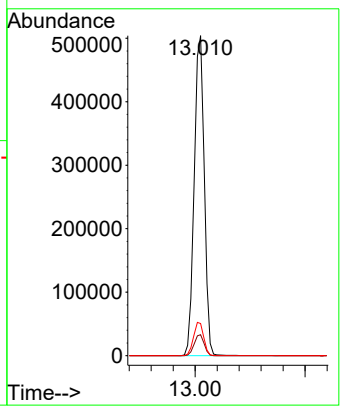


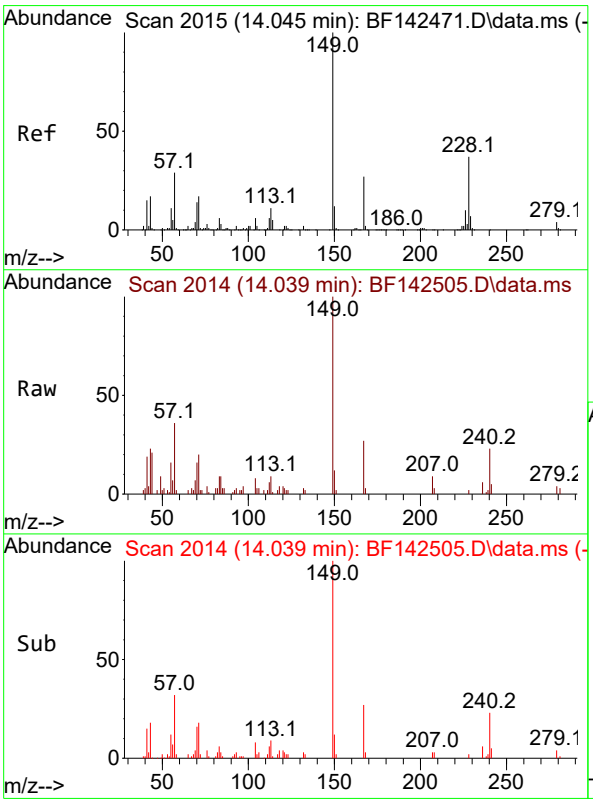
#79
Terphenyl-d14
Concen: 44.789 ng
RT: 13.010 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF142505.D
Acq: 22 May 2025 12:42

Instrument :
BNA_F
ClientSampleId :
TP-38

Tgt Ion:244 Resp: 640217

Ion	Ratio	Lower	Upper
244	100		
212	6.5	5.3	7.9
122	10.0	8.2	12.2

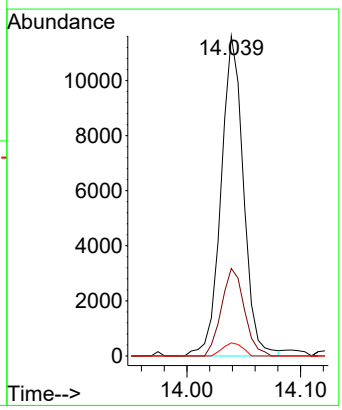


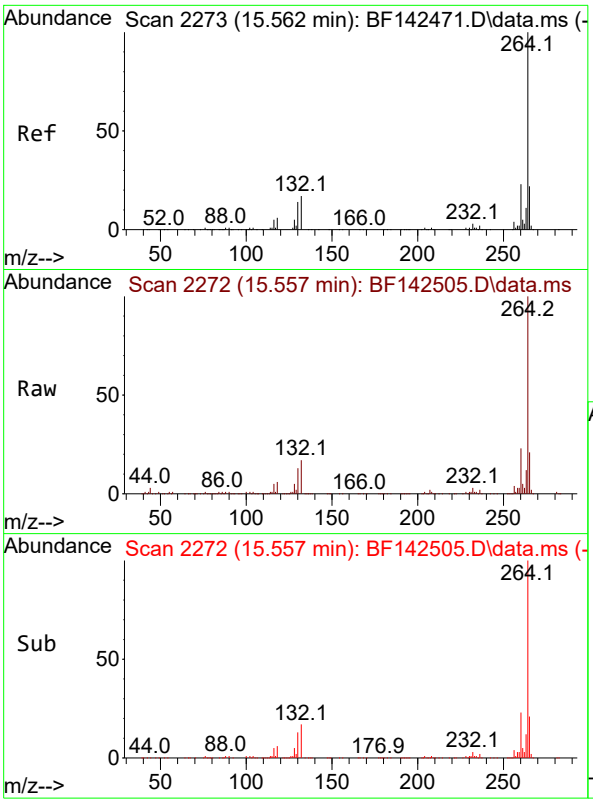


#84
Bis(2-ethylhexyl)phthalate
Concen: 2.469 ng
RT: 14.039 min Scan# 2014
Delta R.T. -0.012 min
Lab File: BF142505.D
Acq: 22 May 2025 12:42

Tgt Ion:149 Resp: 15913

Ion	Ratio	Lower	Upper
149	100		
167	27.3	21.5	32.3
279	4.1	3.2	4.8



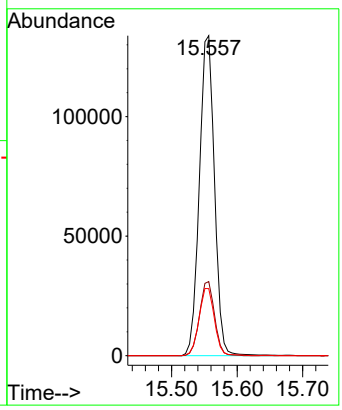


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.557 min Scan# 2
Delta R.T. -0.012 min
Lab File: BF142505.D
Acq: 22 May 2025 12:42

Instrument :
BNA_F
ClientSampleId :
TP-38

Tgt Ion:264 Resp: 215007

Ion	Ratio	Lower	Upper
264	100		
260	23.1	18.6	28.0
265	21.0	17.7	26.5



Sample Results: **BF142505.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052225\
Data File : BF142505.D
Acq On : 22 May 2025 12:42
Operator : RC/JU
Sample : Q2074-05
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-38

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: BF142505.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	487	497	505	rBV	145120	216940	10.38%	1.347%
2	5.516	558	565	570	rBV	1370620	1868576	89.44%	11.604%
3	6.516	729	735	747	rBV	1405806	1933860	92.56%	12.010%
4	6.898	794	800	805	rBV	476691	596304	28.54%	3.703%
5	7.457	888	895	900	rBV	917897	1198158	57.35%	7.441%
6	7.710	933	938	946	rVB	32605	41225	1.97%	0.256%
7	8.181	1012	1018	1033	rBV	610616	780360	37.35%	4.846%
8	8.392	1050	1054	1060	rVB	18149	22463	1.08%	0.140%
9	9.251	1195	1200	1205	rBV	1662941	2089292	100.00%	12.975%
10	9.934	1311	1316	1321	rBV	713571	878893	42.07%	5.458%
11	10.645	1432	1437	1445	rVB	213987	266543	12.76%	1.655%
12	10.722	1445	1450	1455	rBV	1196776	1520826	72.79%	9.445%
13	10.957	1483	1490	1495	rBV2	22016	28037	1.34%	0.174%
14	11.422	1564	1569	1576	rBV	710008	876220	41.94%	5.442%
15	11.945	1651	1658	1674	rBV	241410	392241	18.77%	2.436%
16	12.198	1697	1701	1708	rVB3	15235	21034	1.01%	0.131%
17	12.445	1734	1743	1750	rBV3	18398	44230	2.12%	0.275%
18	12.727	1786	1791	1801	rBV2	38787	70677	3.38%	0.439%
19	13.010	1833	1839	1844	rBV	1308027	1676428	80.24%	10.411%
20	13.198	1865	1871	1882	rBV	27123	52341	2.51%	0.325%
21	13.810	1969	1975	1985	rBV	29356	52415	2.51%	0.326%
22	13.904	1986	1991	2004	rBV	38993	86800	4.15%	0.539%
23	14.063	2009	2018	2028	rVB	404749	565321	27.06%	3.511%
24	14.316	2056	2061	2069	rBV	37229	60545	2.90%	0.376%
25	14.780	2134	2140	2145	rBV	35173	60506	2.90%	0.376%
26	14.921	2160	2164	2171	rVB2	16478	24562	1.18%	0.153%
27	15.286	2221	2226	2232	rVB	26821	47003	2.25%	0.292%
28	15.557	2265	2272	2281	rVB	349024	569631	27.26%	3.538%
29	15.845	2316	2321	2330	rVB	19602	38152	1.83%	0.237%
30	16.504	2429	2433	2438	rVB2	12455	22866	1.09%	0.142%

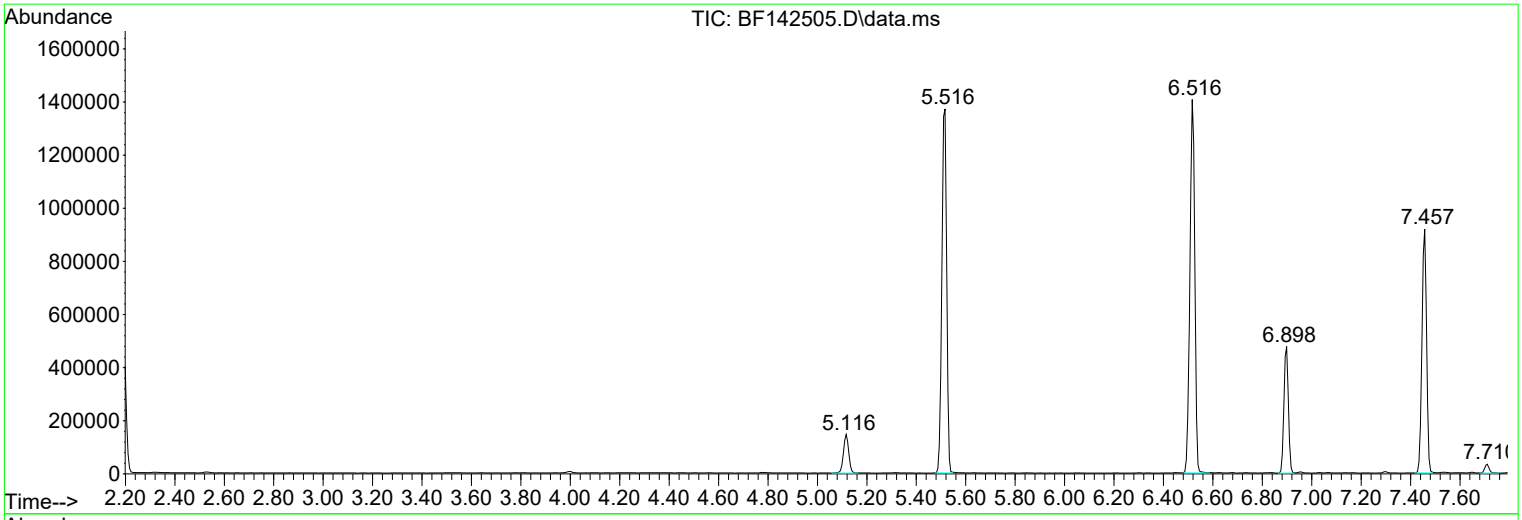
Sum of corrected areas: 16102449

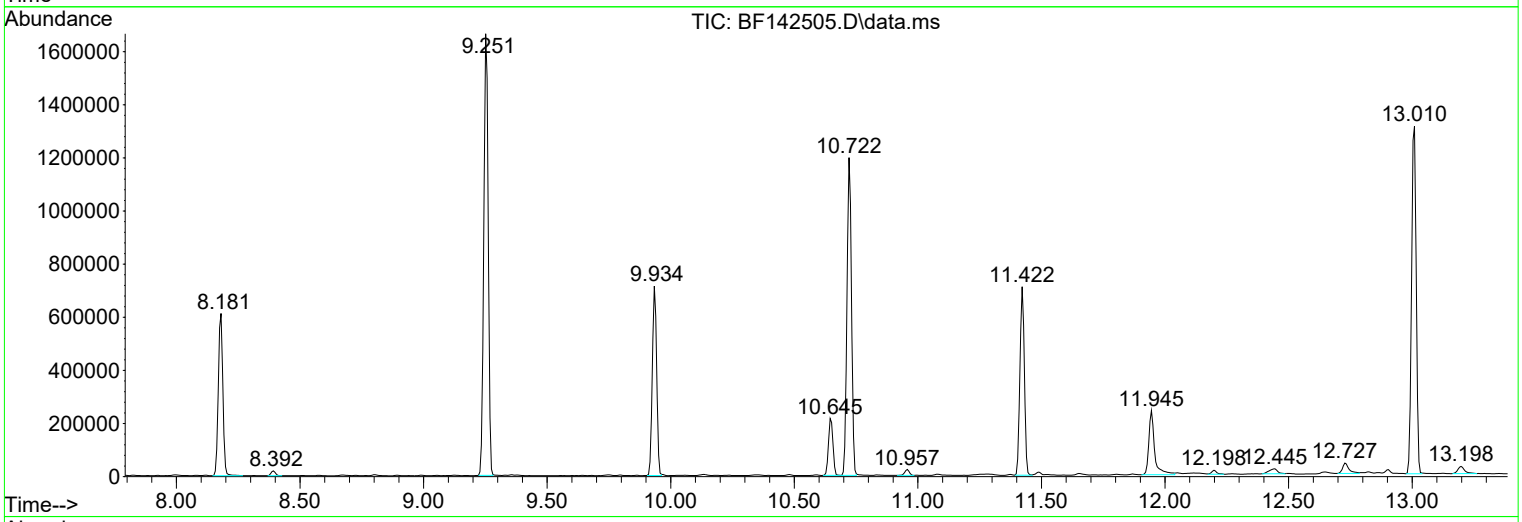
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052225\
Data File : BF142505.D
Acq On : 22 May 2025 12:42
Operator : RC/JU
Sample : Q2074-05
Misc :
ALS Vial : 5 Sample Multiplier: 1

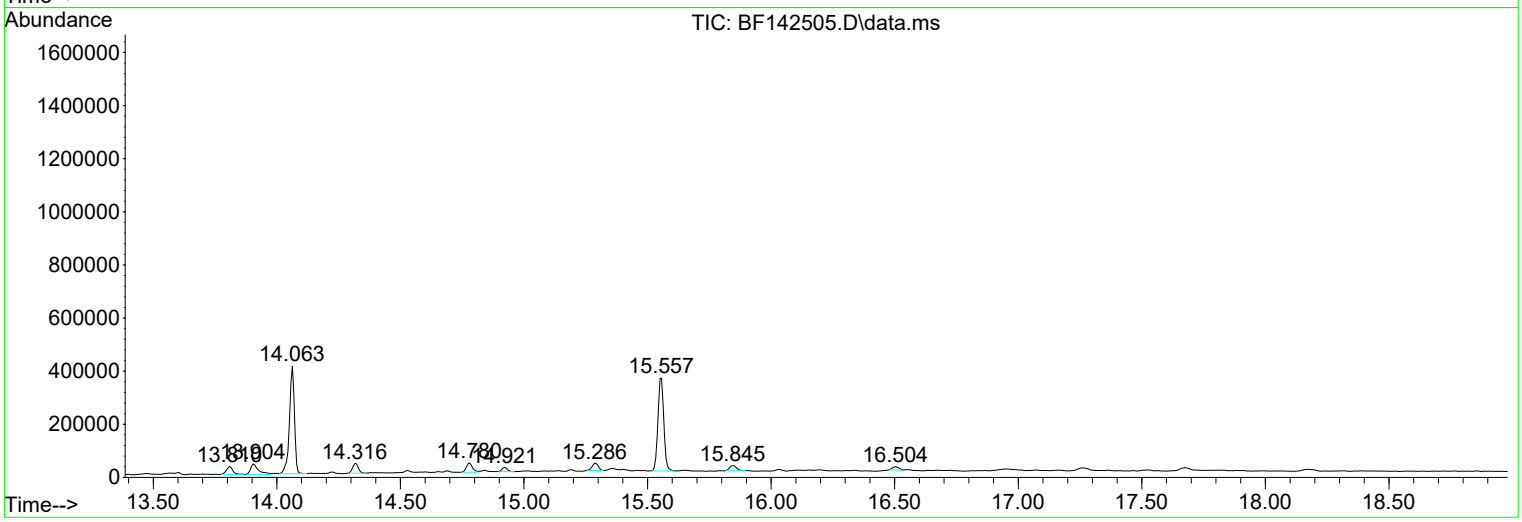
Instrument :
BNA_F
ClientSampleId :
TP-38

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\BF052225\
Data File : BF142505.D
Acq On : 22 May 2025 12:42
Operator : RC/JU
Sample : Q2074-05
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-38

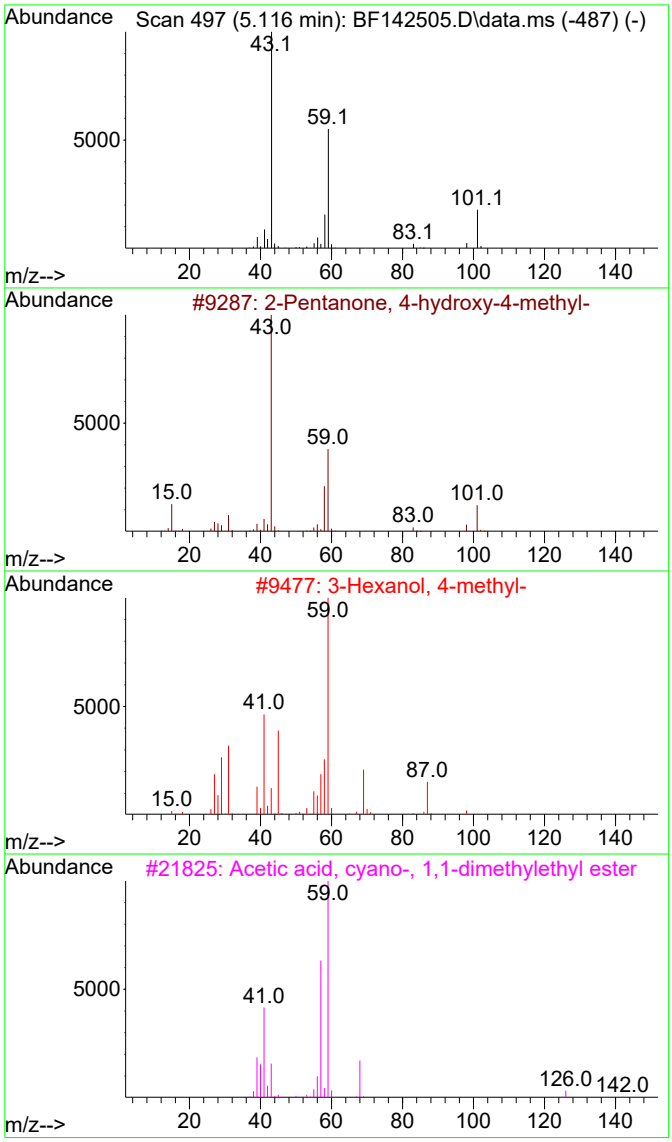
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

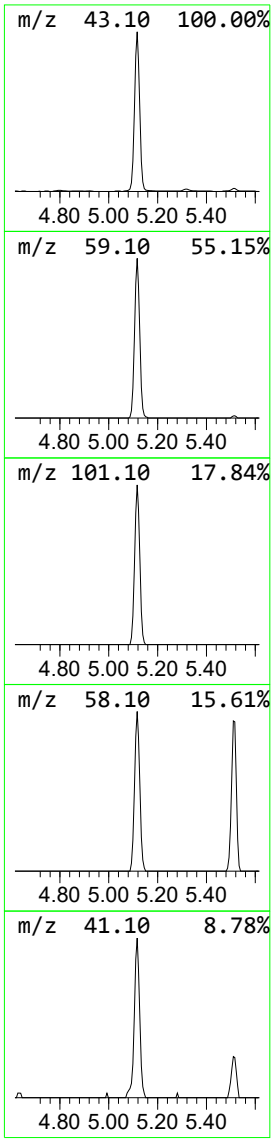
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.116	7.28 ng	216940	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	3-Hexanol, 4-methyl-	116	C7H16O	000615-29-2	33
3	Acetic acid, cyano-, 1,1-dimethy...	141	C7H11NO2	001116-98-9	23
4	1-Propen-2-ol, acetate	100	C5H8O2	000108-22-5	12
5	2,3-Butanedione, monooxime	101	C4H7NO2	000057-71-6	9





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052225\
Data File : BF142505.D
Acq On : 22 May 2025 12:42
Operator : RC/JU
Sample : Q2074-05
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-38

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

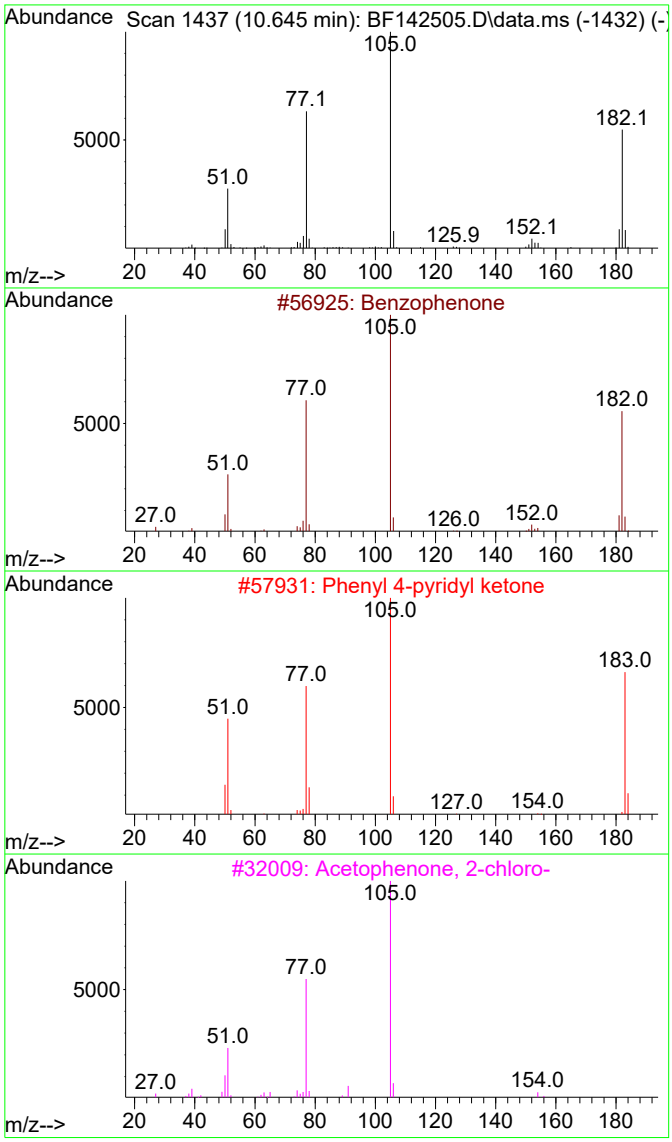
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

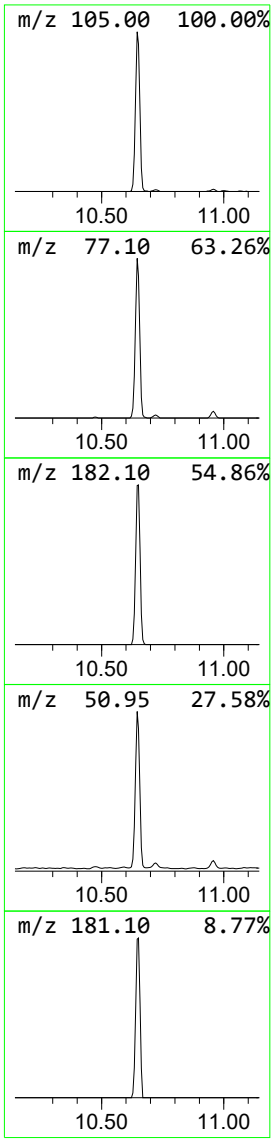
****

Peak Number 2 Benzophenone Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.645	6.07 ng	266543	Acenaphthene-d10	9.934

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzophenone	182	C13H10O	000119-61-9	96
2	Phenyl 4-pyridyl ketone	183	C12H9NO	014548-46-0	50
3	Acetophenone, 2-chloro-	154	C8H7ClO	000532-27-4	49
4	1-Propanone, 3-chloro-1-phenyl-	168	C9H9ClO	000936-59-4	47
5	Vinyl benzoate	148	C9H8O2	000769-78-8	47





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052225\
Data File : BF142505.D
Acq On : 22 May 2025 12:42
Operator : RC/JU
Sample : Q2074-05
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-38

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

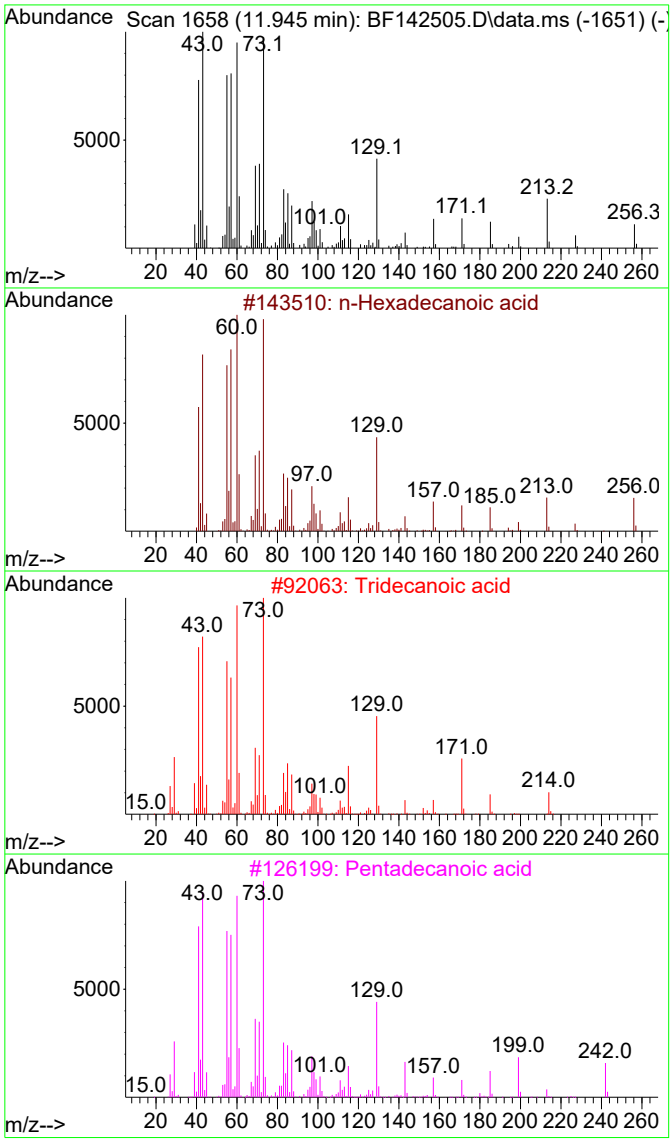
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

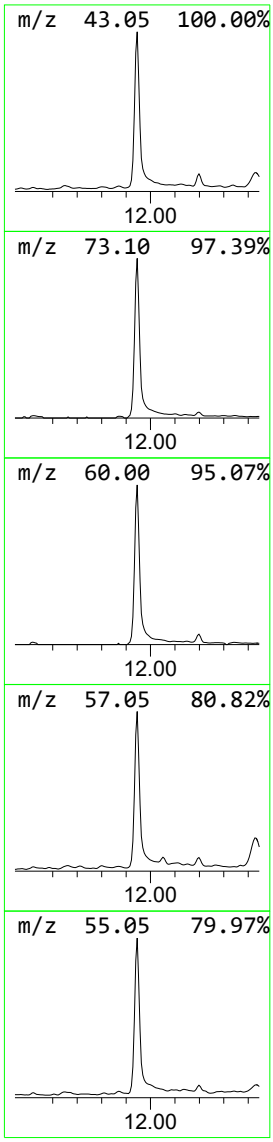
****

Peak Number 3 n-Hexadecanoic acid Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.945	8.95 ng	392241	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	93
4	Tetradecanoic acid	228	C14H28O2	000544-63-8	83
5	n-Decanoic acid	172	C10H20O2	000334-48-5	76





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052225\
Data File : BF142505.D
Acq On : 22 May 2025 12:42
Operator : RC/JU
Sample : Q2074-05
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-38

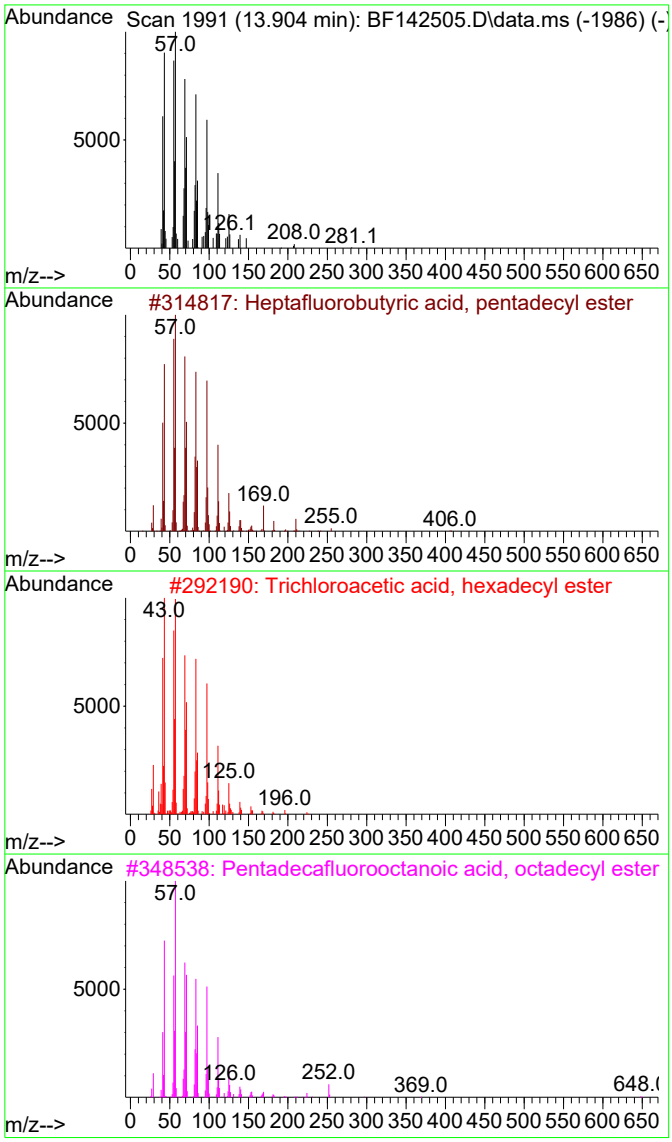
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

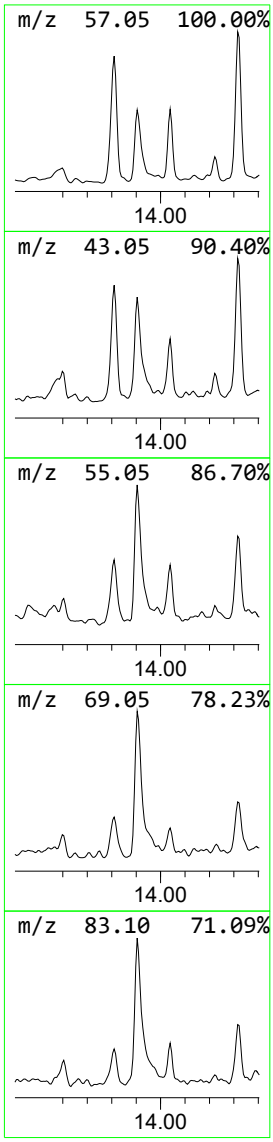
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 4 Heptafluorobutyric acid, pe... Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.904	3.07 ng	86800	Chrysene-d12	14.063

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptafluorobutyric acid, pentade...	424	C19H31F7O2	959261-23-5	95
2	Trichloroacetic acid, hexadecyl ...	386	C18H33Cl3O2	074339-54-1	95
3	Pentadecafluorooctanoic acid, oc...	666	C26H37F15O2	1000406-04-8	95
4	Dichloroacetic acid, heptadecyl ...	366	C19H36Cl2O2	1000282-98-2	94
5	Trichloroacetic acid, pentadecyl...	372	C17H31Cl3O2	074339-53-0	94





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052225\
Data File : BF142505.D
Acq On : 22 May 2025 12:42
Operator : RC/JU
Sample : Q2074-05
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-38

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

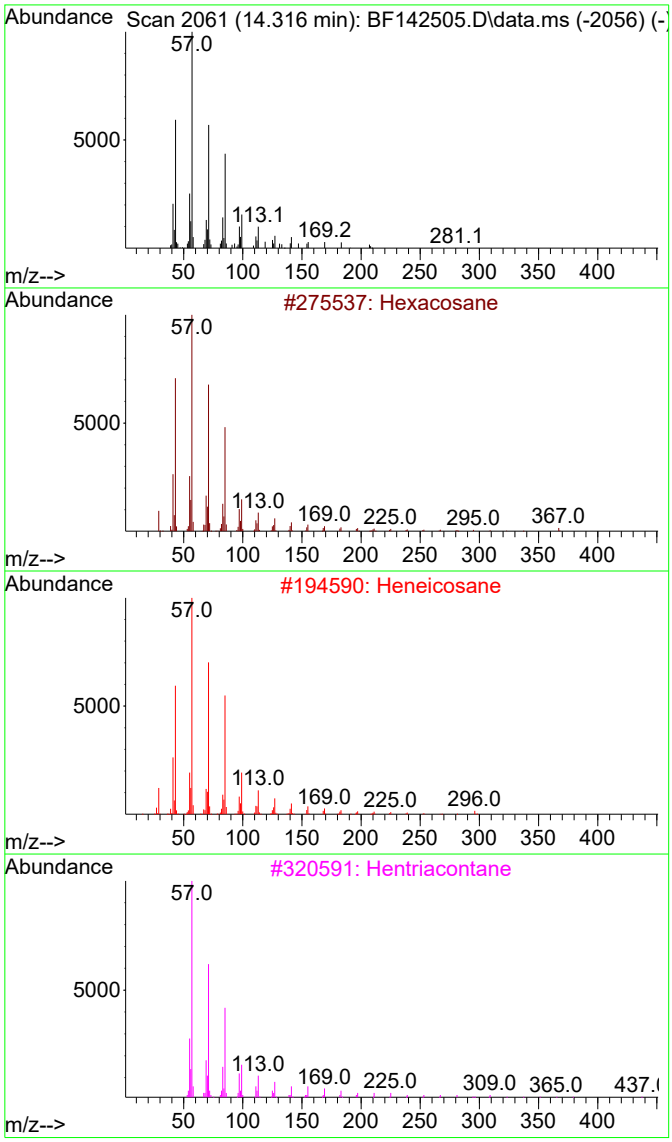
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

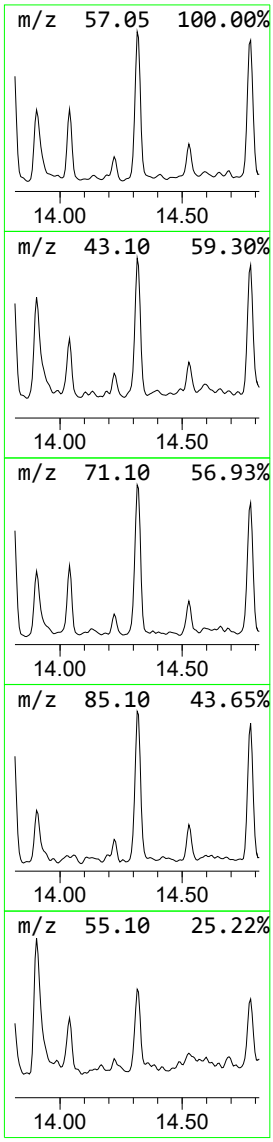
****

Peak Number 5 Hexacosane Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.316	2.14 ng	60545	Chrysene-d12	14.063

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexacosane	366	C26H54	000630-01-3	91
2	Heneicosane	296	C21H44	000629-94-7	91
3	Hentriacontane	437	C31H64	000630-04-6	91
4	Octacosane, 2-methyl-	408	C29H60	001560-98-1	91
5	Octacosane	394	C28H58	000630-02-4	90





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052225\
Data File : BF142505.D
Acq On : 22 May 2025 12:42
Operator : RC/JU
Sample : Q2074-05
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-38

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

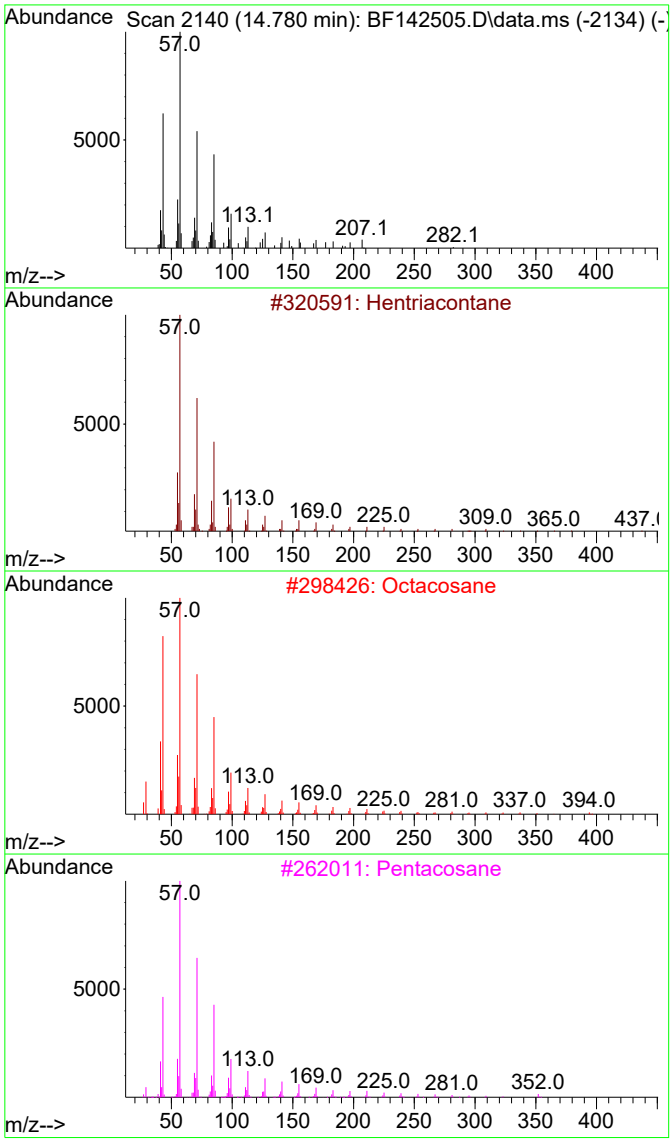
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

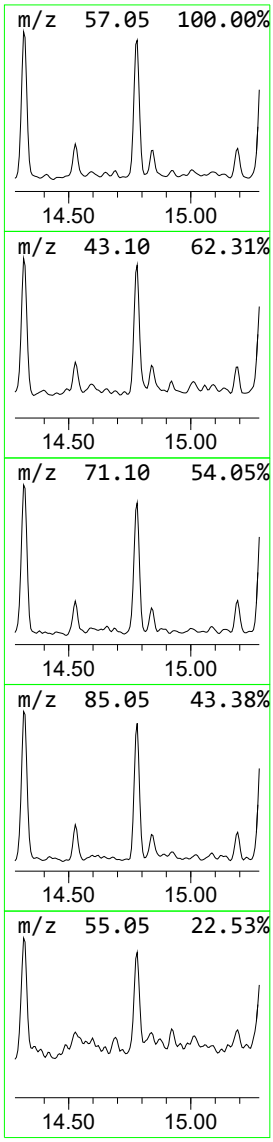
****

Peak Number 6 Hentriacontane Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.780	2.14 ng	60506	Chrysene-d12	14.063

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hentriacontane	437	C31H64	000630-04-6	94
2	Octacosane	394	C28H58	000630-02-4	91
3	Pentacosane	352	C25H52	000629-99-2	91
4	Hexacosane	366	C26H54	000630-01-3	91
5	Tetratetracontane	619	C44H90	007098-22-8	91





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052225\
Data File : BF142505.D
Acq On : 22 May 2025 12:42
Operator : RC/JU
Sample : Q2074-05
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-38

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	7.3	ng	216940	1	6.898	596304	20.0
Benzophenone	10.645	6.1	ng	266543	3	9.934	878893	20.0
n-Hexadecanoic ...	11.945	8.9	ng	392241	4	11.422	876220	20.0
Heptafluorobuty...	13.904	3.1	ng	86800	5	14.063	565321	20.0
Hexacosane	14.316	2.1	ng	60545	5	14.063	565321	20.0
Hentriacontane	14.780	2.1	ng	60506	5	14.063	565321	20.0

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052125\
Data File : BF142484.D
Acq On : 21 May 2025 13:40
Operator : RC/JU
Sample : Q2074-06
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-19

Quant Time: May 21 14:38:50 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

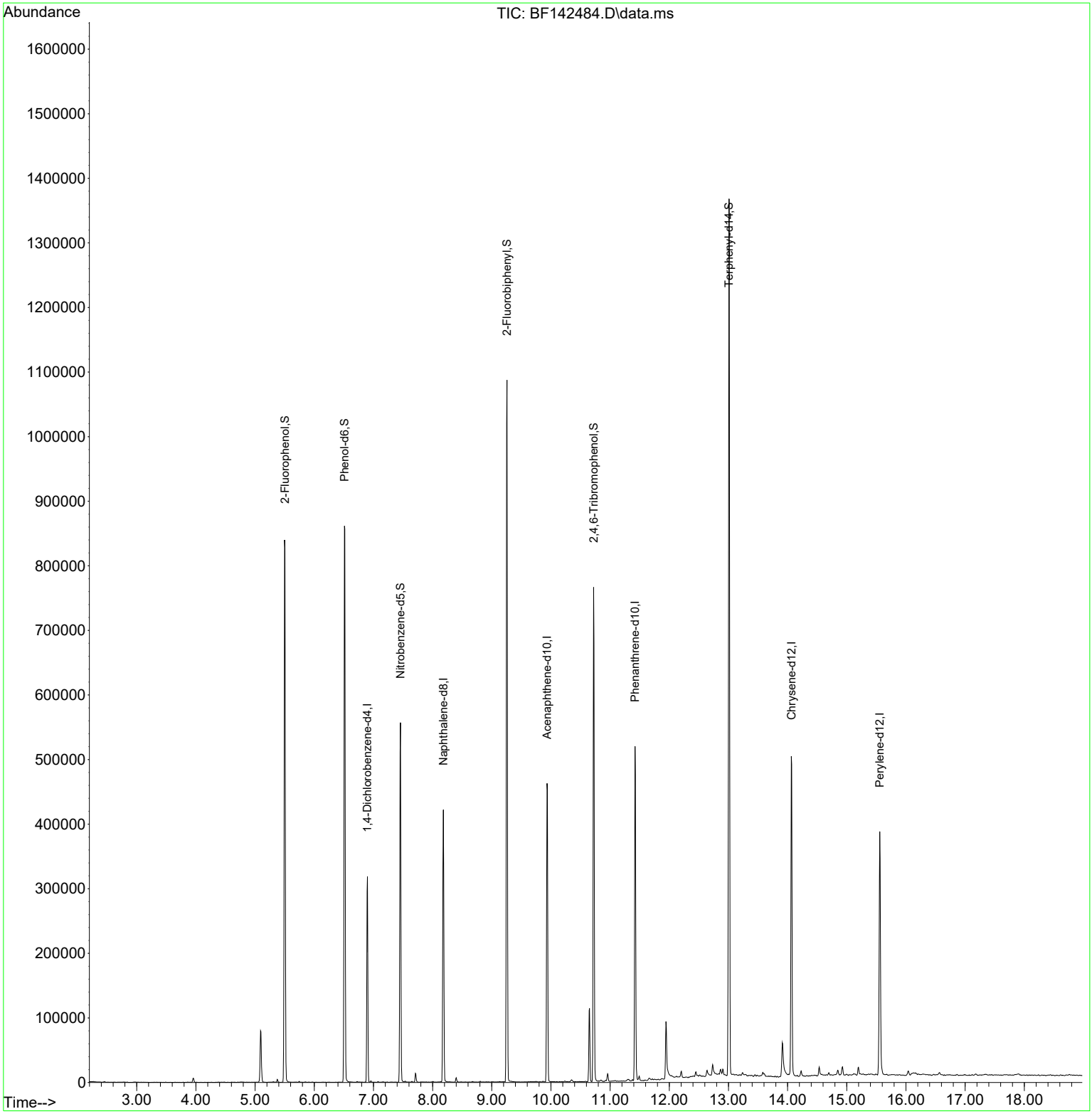
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.898	152	68503	20.000	ng	0.00
21) Naphthalene-d8	8.181	136	265449	20.000	ng	0.00
39) Acenaphthene-d10	9.933	164	143783	20.000	ng	-0.01
64) Phenanthrene-d10	11.421	188	270138	20.000	ng	-0.01
76) Chrysene-d12	14.068	240	248278	20.000	ng	0.00
86) Perylene-d12	15.557	264	222913	20.000	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.504	112	322674	79.358	ng	-0.01
7) Phenol-d6	6.510	99	397670	81.247	ng	-0.02
23) Nitrobenzene-d5	7.457	82	228983	47.038	ng	-0.02
42) 2,4,6-Tribromophenol	10.722	330	132464	83.007	ng	-0.02
45) 2-Fluorobiphenyl	9.257	172	491232	45.844	ng	-0.01
79) Terphenyl-d14	13.010	244	641662	35.318	ng	0.00
Target Compounds						Qvalue

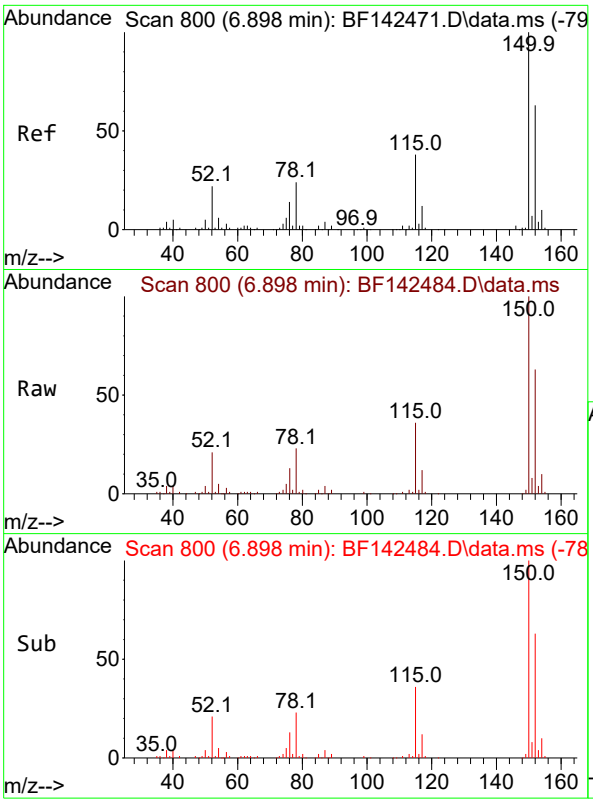
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052125\
Data File : BF142484.D
Acq On : 21 May 2025 13:40
Operator : RC/JU
Sample : Q2074-06
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-19

Quant Time: May 21 14:38:50 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



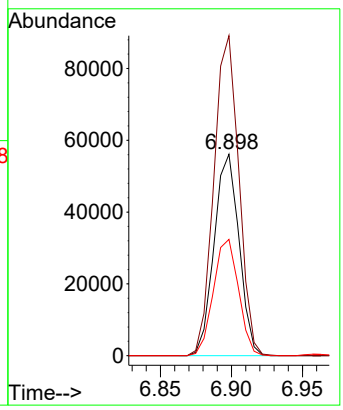


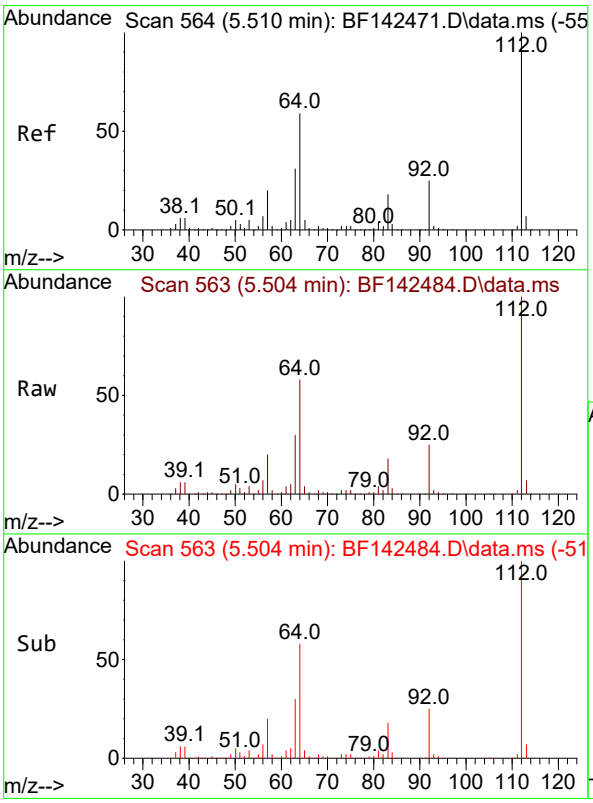
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.898 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF142484.D
Acq: 21 May 2025 13:40

Instrument :
BNA_F
ClientSampleId :
TP-19

Tgt Ion:152 Resp: 68503

Ion	Ratio	Lower	Upper
152	100		
150	158.8	128.2	192.4
115	57.7	48.3	72.5

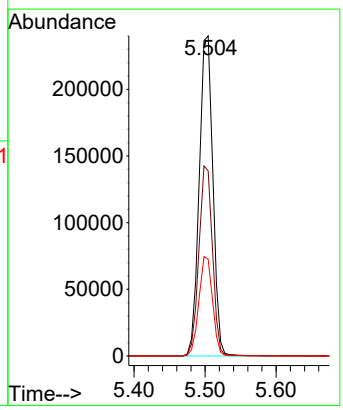


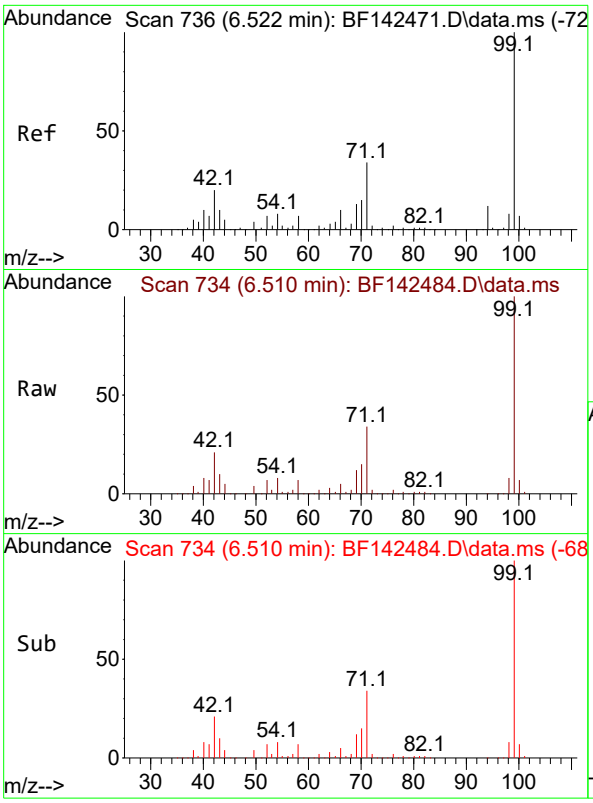


#5
2-Fluorophenol
Concen: 79.358 ng
RT: 5.504 min Scan# 563
Delta R.T. -0.012 min
Lab File: BF142484.D
Acq: 21 May 2025 13:40

Tgt Ion:112 Resp: 322674

Ion	Ratio	Lower	Upper
112	100		
64	57.9	47.5	71.3
63	30.3	24.9	37.3



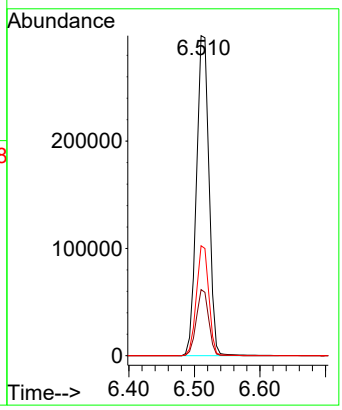


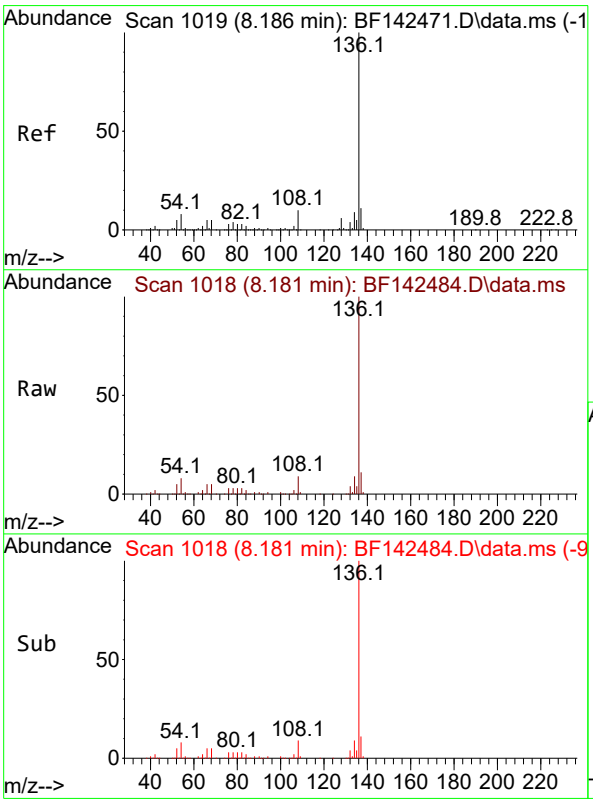
#7
Phenol-d6
Concen: 81.247 ng
RT: 6.510 min Scan# 7
Delta R.T. -0.023 min
Lab File: BF142484.D
Acq: 21 May 2025 13:40

Instrument :
BNA_F
ClientSampleId :
TP-19

Tgt Ion: 99 Resp: 397670

Ion	Ratio	Lower	Upper
99	100		
42	20.6	16.2	24.2
71	34.3	27.3	40.9

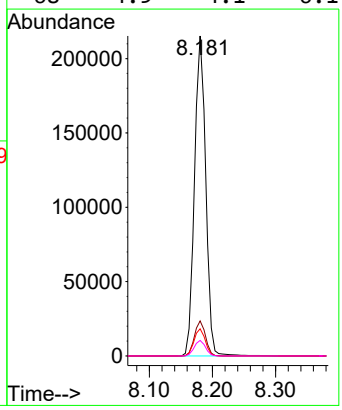


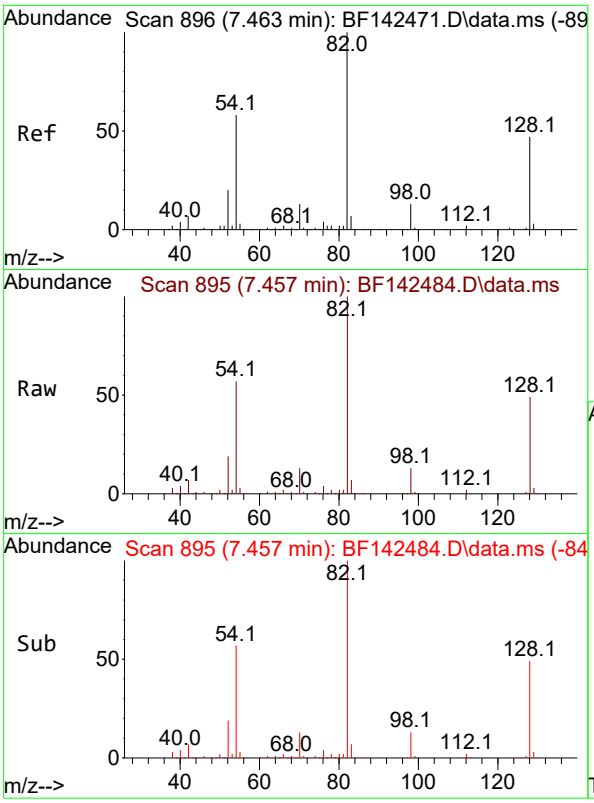


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.181 min Scan# 1018
Delta R.T. -0.006 min
Lab File: BF142484.D
Acq: 21 May 2025 13:40

Tgt Ion:136 Resp: 265449

Ion	Ratio	Lower	Upper
136	100		
137	10.9	8.6	13.0
54	8.5	6.6	10.0
68	4.9	4.1	6.1



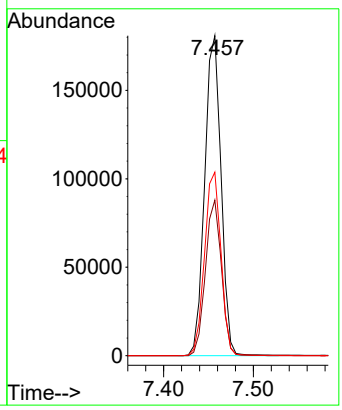


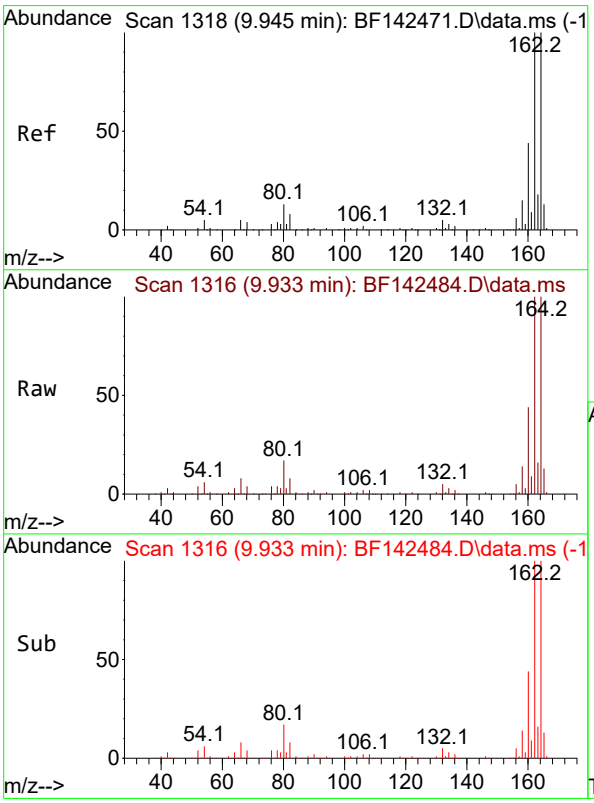
#23
Nitrobenzene-d5
Concen: 47.038 ng
RT: 7.457 min Scan# 8
Delta R.T. -0.018 min
Lab File: BF142484.D
Acq: 21 May 2025 13:40

Instrument :
BNA_F
ClientSampleId :
TP-19

Tgt Ion: 82 Resp: 228983

Ion	Ratio	Lower	Upper
82	100		
128	48.6	37.4	56.2
54	57.4	46.6	70.0

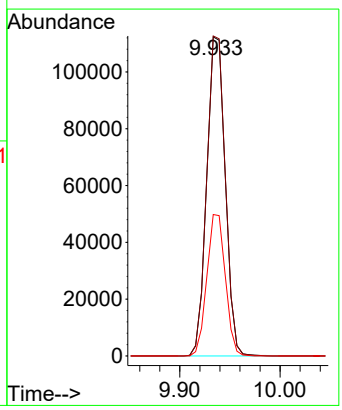


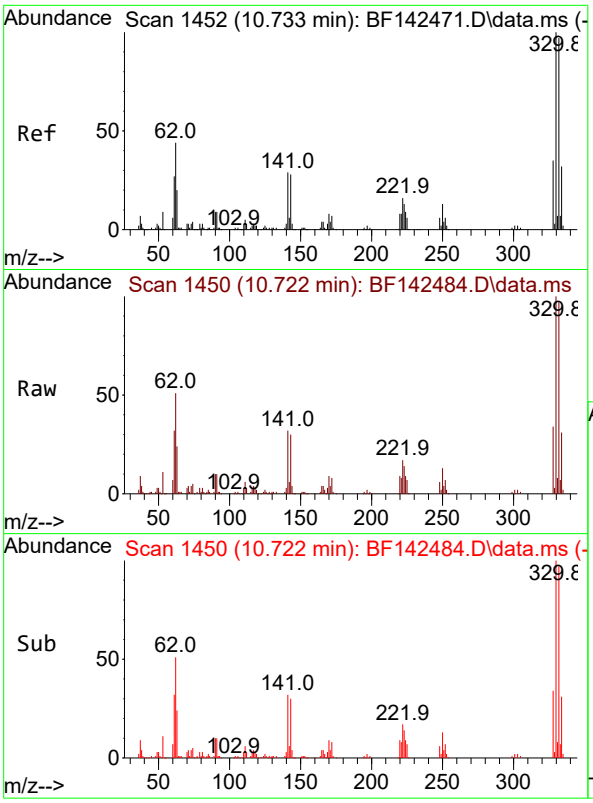


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.933 min Scan# 1316
Delta R.T. -0.012 min
Lab File: BF142484.D
Acq: 21 May 2025 13:40

Tgt Ion:164 Resp: 143783

Ion	Ratio	Lower	Upper
164	100		
162	100.3	80.2	120.4
160	44.3	35.6	53.4



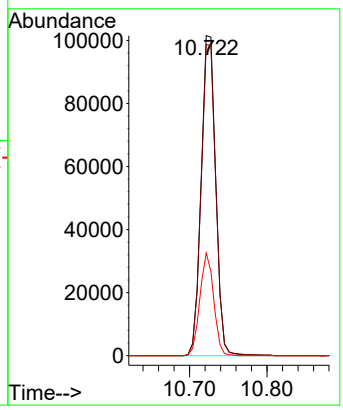


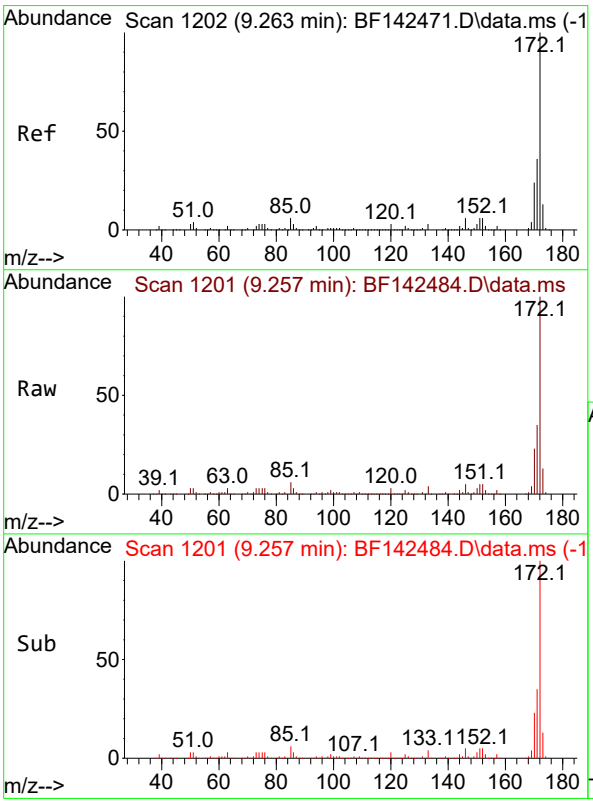
#42
2,4,6-Tribromophenol
Concen: 83.007 ng
RT: 10.722 min Scan# 14
Delta R.T. -0.018 min
Lab File: BF142484.D
Acq: 21 May 2025 13:40

Instrument :
BNA_F
ClientSampleId :
TP-19

Tgt Ion:330 Resp: 132464

Ion	Ratio	Lower	Upper
330	100		
332	97.6	77.6	116.4
141	30.3	24.6	36.8

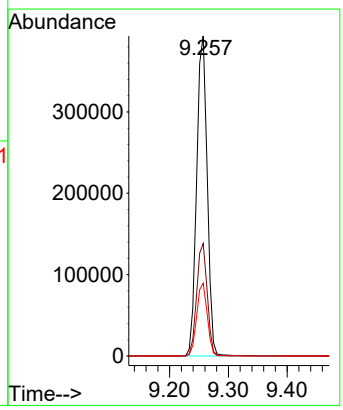


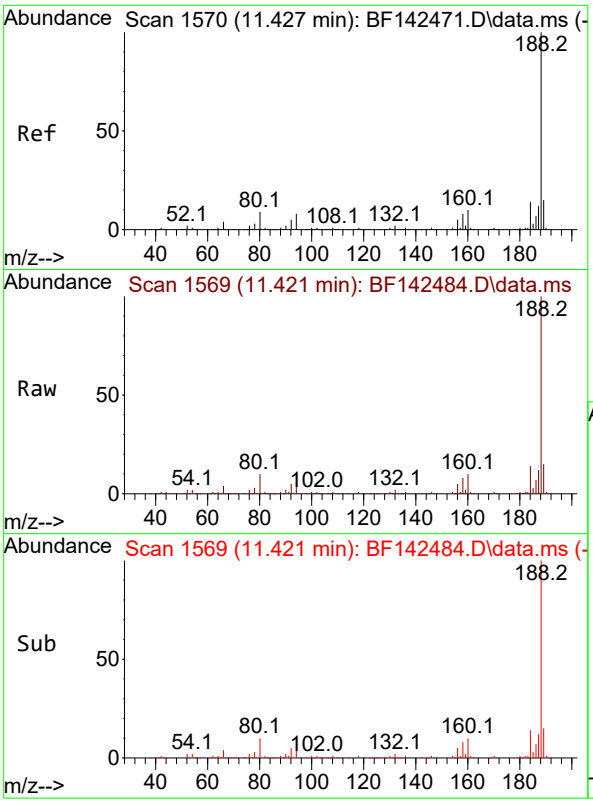


#45
2-Fluorobiphenyl
Concen: 45.844 ng
RT: 9.257 min Scan# 1201
Delta R.T. -0.012 min
Lab File: BF142484.D
Acq: 21 May 2025 13:40

Tgt Ion:172 Resp: 491232

Ion	Ratio	Lower	Upper
172	100		
171	35.2	28.6	42.8
170	22.7	18.9	28.3



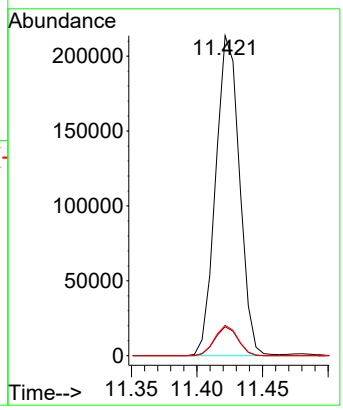


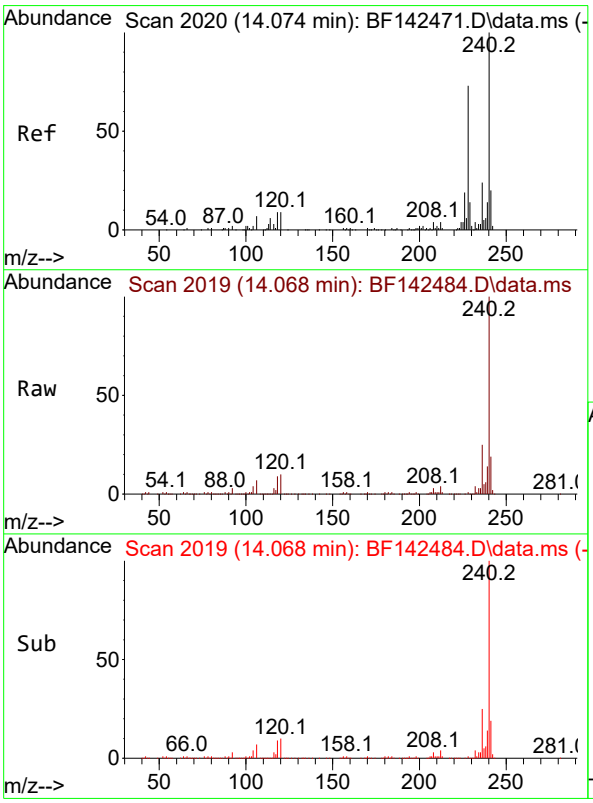
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.421 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF142484.D
Acq: 21 May 2025 13:40

Instrument :
BNA_F
ClientSampleId :
TP-19

Tgt Ion:188 Resp: 270138

Ion	Ratio	Lower	Upper
188	100		
94	9.0	6.6	10.0
80	9.5	7.4	11.0

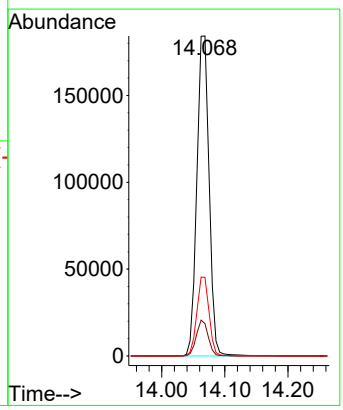


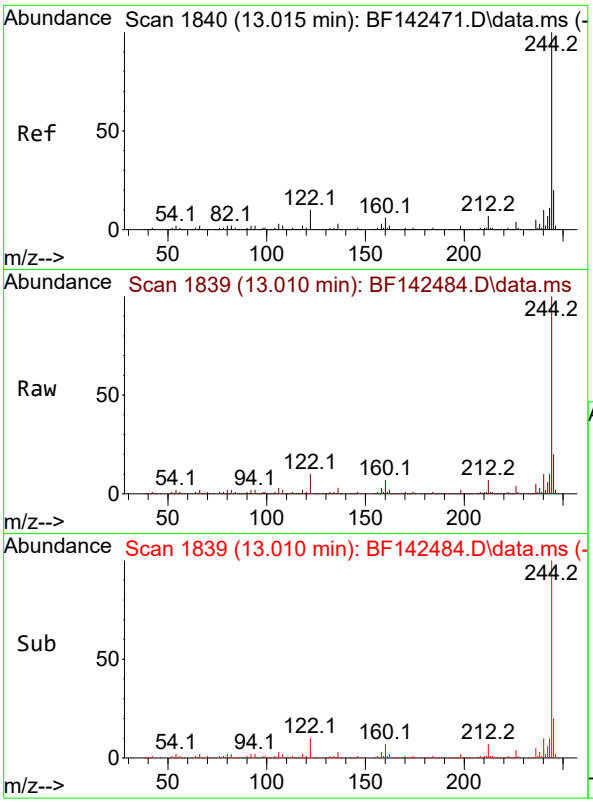


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.068 min Scan# 2019
Delta R.T. -0.006 min
Lab File: BF142484.D
Acq: 21 May 2025 13:40

Tgt Ion:240 Resp: 248278

Ion	Ratio	Lower	Upper
240	100		
120	10.1	7.5	11.3
236	24.6	19.6	29.4



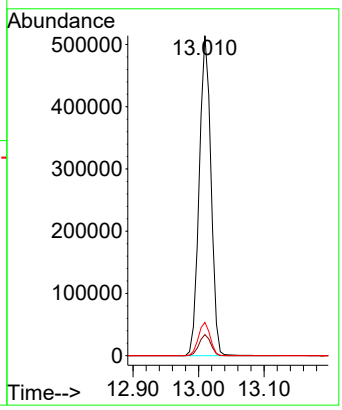


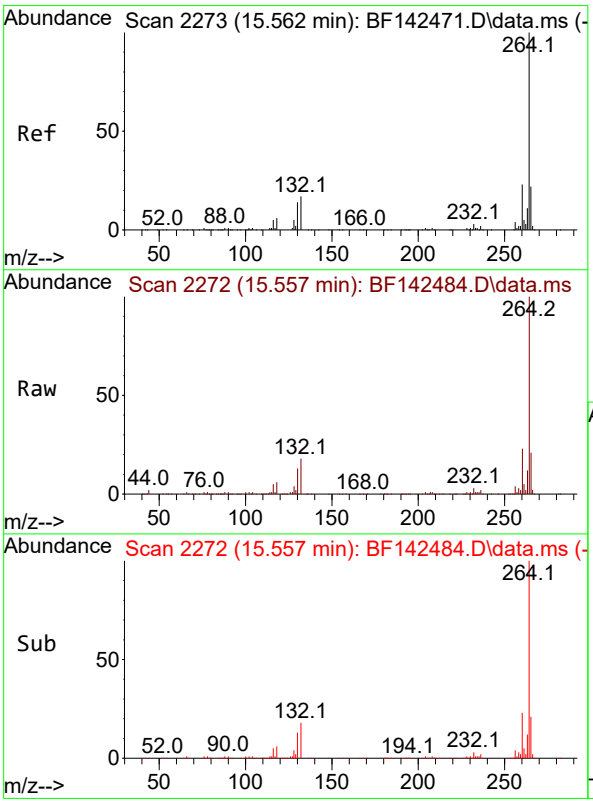
#79
Terphenyl-d14
Concen: 35.318 ng
RT: 13.010 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF142484.D
Acq: 21 May 2025 13:40

Instrument :
BNA_F
ClientSampleId :
TP-19

Tgt Ion:244 Resp: 641662

Ion	Ratio	Lower	Upper
244	100		
212	6.6	5.3	7.9
122	10.4	8.2	12.2

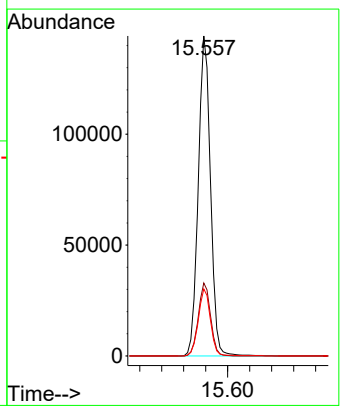




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.557 min Scan# 2272
Delta R.T. -0.012 min
Lab File: BF142484.D
Acq: 21 May 2025 13:40

Tgt Ion:264 Resp: 222913

Ion	Ratio	Lower	Upper
264	100		
260	22.8	18.6	28.0
265	21.0	17.7	26.5



Sample Results: **BF142484.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052125\
Data File : BF142484.D
Acq On : 21 May 2025 13:40
Operator : RC/JU
Sample : Q2074-06
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-19

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: BF142484.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	5.092	486	493	503	rBV	79834	119776	7.10%	1.084%
2	5.498	556	562	568	rBV	839777	1124606	66.66%	10.182%
3	6.510	729	734	745	rBV	860846	1153682	68.38%	10.445%
4	6.898	795	800	805	rBV	318176	390414	23.14%	3.535%
5	7.457	889	895	900	rBV	556772	700173	41.50%	6.339%
6	7.710	935	938	944	rBV	13497	17261	1.02%	0.156%
7	8.181	1013	1018	1031	rBV	421477	514991	30.53%	4.662%
8	9.257	1195	1201	1206	rBV	1086599	1356869	80.43%	12.284%
9	9.933	1311	1316	1322	rBV	462092	587194	34.80%	5.316%
10	10.651	1433	1438	1445	rBV	113414	143288	8.49%	1.297%
11	10.722	1445	1450	1461	rBV	765428	962535	57.05%	8.714%
12	11.421	1564	1569	1576	rBV	517502	656874	38.94%	5.947%
13	11.945	1653	1658	1672	rBV2	88955	152975	9.07%	1.385%
14	12.639	1771	1776	1784	rBV	9350	19522	1.16%	0.177%
15	12.733	1788	1792	1805	rVV6	16135	33130	1.96%	0.300%
16	13.010	1834	1839	1844	rBV	1356715	1687103	100.00%	15.274%
17	13.910	1987	1992	2007	rBV	52213	117217	6.95%	1.061%
18	14.063	2013	2018	2030	rVB	494788	666613	39.51%	6.035%
19	14.533	2094	2098	2104	rBV	13185	19792	1.17%	0.179%
20	14.927	2161	2165	2170	rVB	12768	18236	1.08%	0.165%
21	15.198	2206	2211	2215	rBV	12391	18797	1.11%	0.170%
22	15.557	2266	2272	2287	rBV	377084	584375	34.64%	5.291%

Sum of corrected areas: 11045423

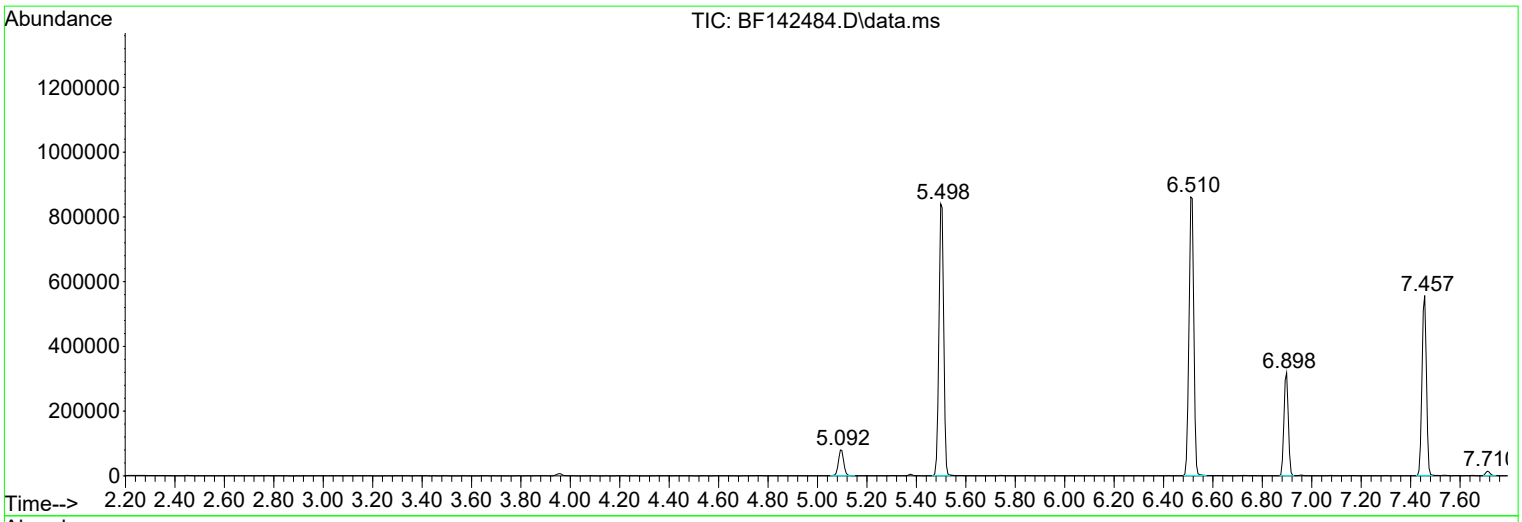
Sample Results: **BF142484.D**

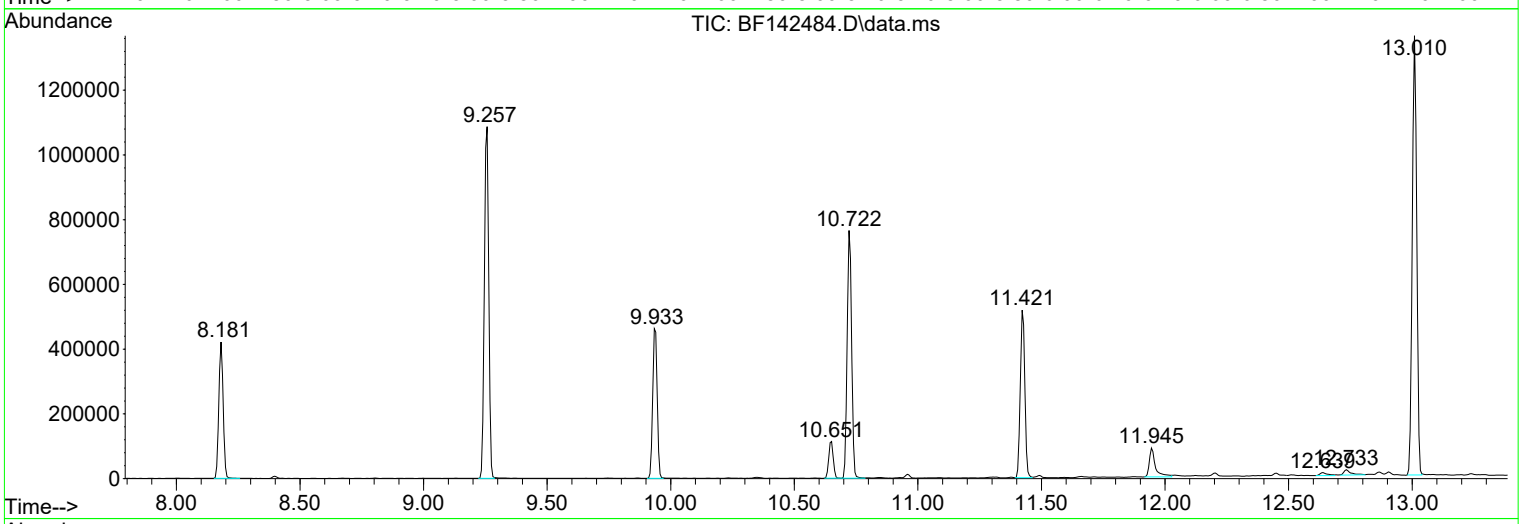
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052125\
Data File : BF142484.D
Acq On : 21 May 2025 13:40
Operator : RC/JU
Sample : Q2074-06
Misc :
ALS Vial : 8 Sample Multiplier: 1

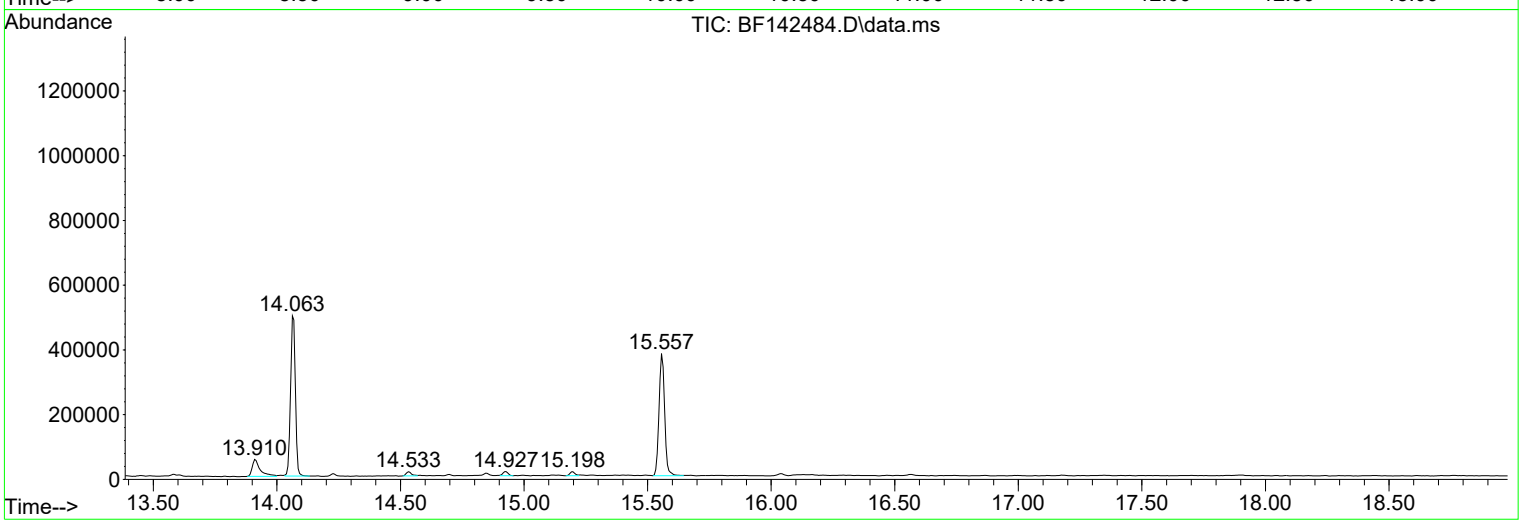
Instrument :
BNA_F
ClientSampleId :
TP-19

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\BF052125\
Data File : BF142484.D
Acq On : 21 May 2025 13:40
Operator : RC/JU
Sample : Q2074-06
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-19

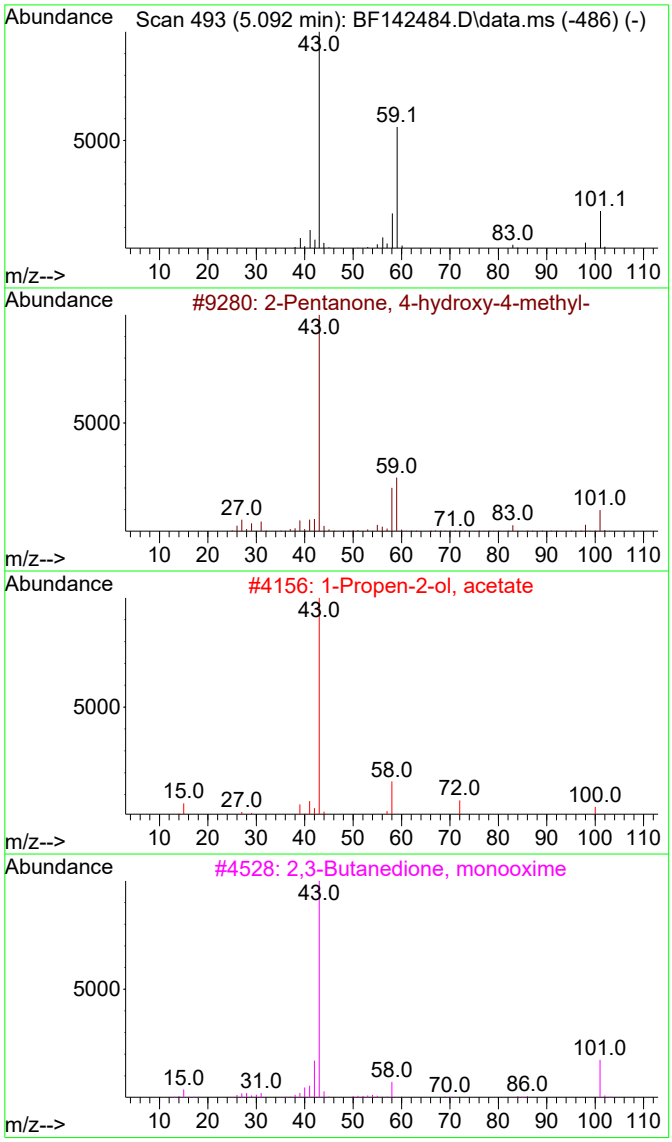
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

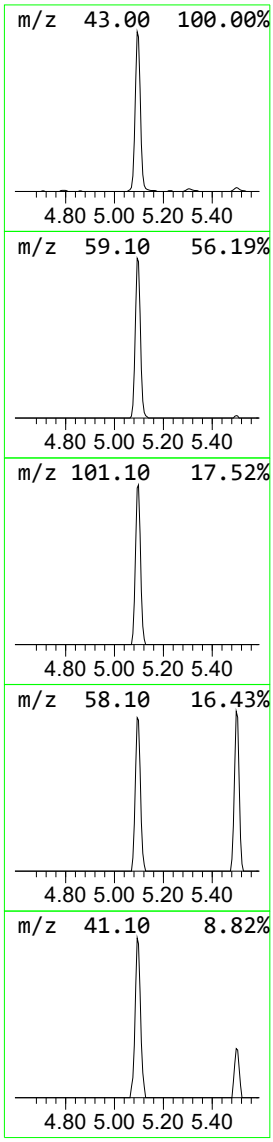
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.092	6.14 ng	119776	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	1-Propen-2-ol, acetate	100	C5H8O2	000108-22-5	12
3	2,3-Butanedione, monooxime	101	C4H7NO2	000057-71-6	10
4	4-Penten-2-one, 4-methyl-	98	C6H10O	003744-02-3	9
5	Morpholine, 4-methyl-	101	C5H11NO	000109-02-4	9





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052125\
Data File : BF142484.D
Acq On : 21 May 2025 13:40
Operator : RC/JU
Sample : Q2074-06
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-19

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

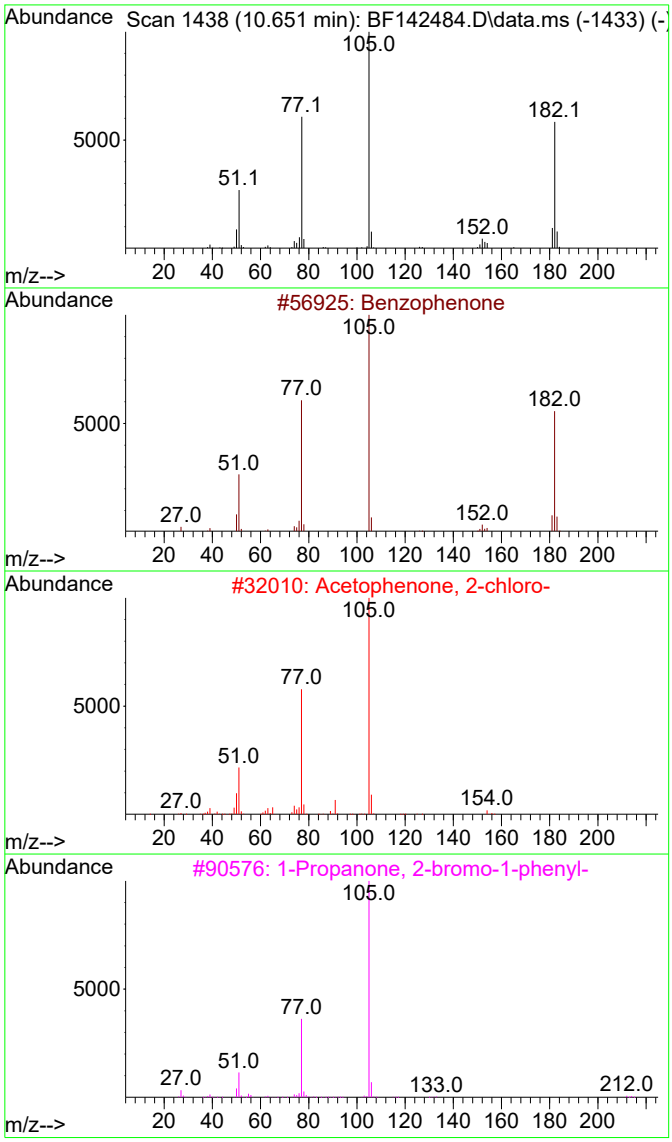
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

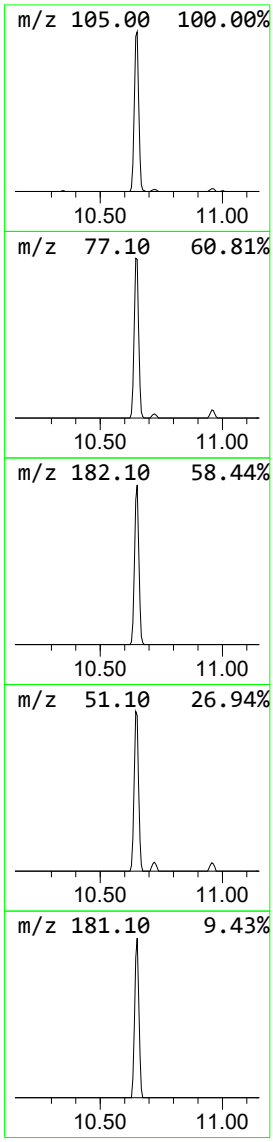
****

Peak Number 2 Benzophenone Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.651	4.88 ng	143288	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	1-Propanone, 2-bromo-1-phenyl-	212	C9H9BrO	002114-00-3	47
4	Pentafluoroethyl phenyl ketone	224	C9H5F5O	000394-52-5	47
5	Benzenebutanoic acid, .gamma.-oxo-	178	C10H10O3	002051-95-8	47





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Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052125\
Data File : BF142484.D
Acq On    : 21 May 2025  13:40
Operator  : RC/JU
Sample    : Q2074-06
Misc      :
ALS Vial  : 8   Sample Multiplier: 1

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

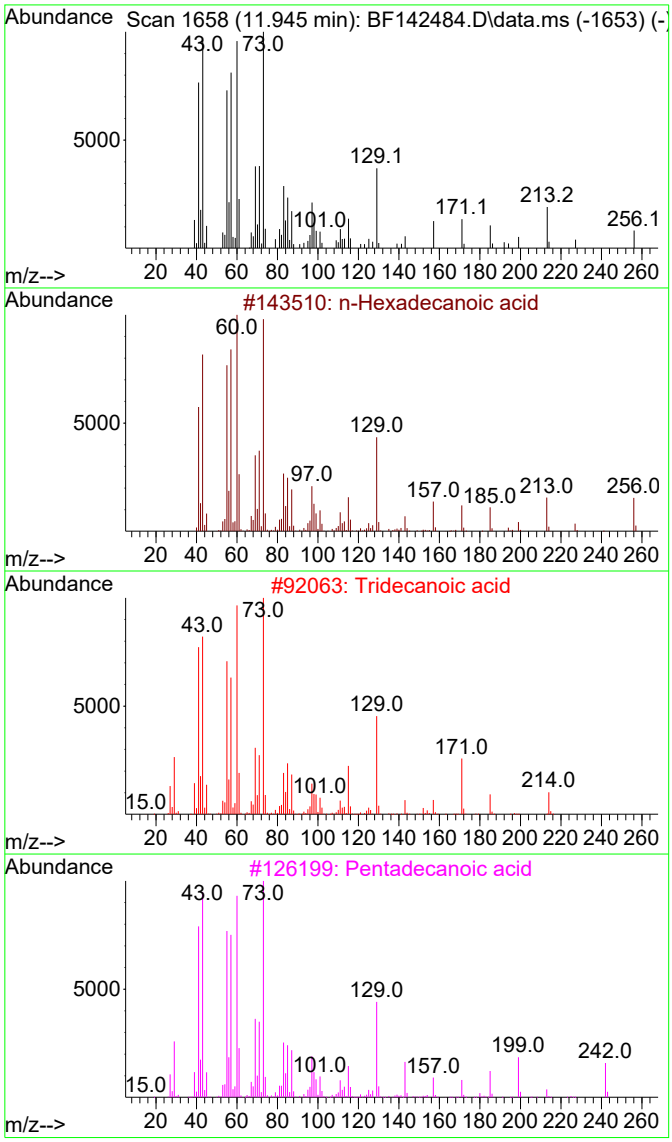
TIC Library   : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P
```

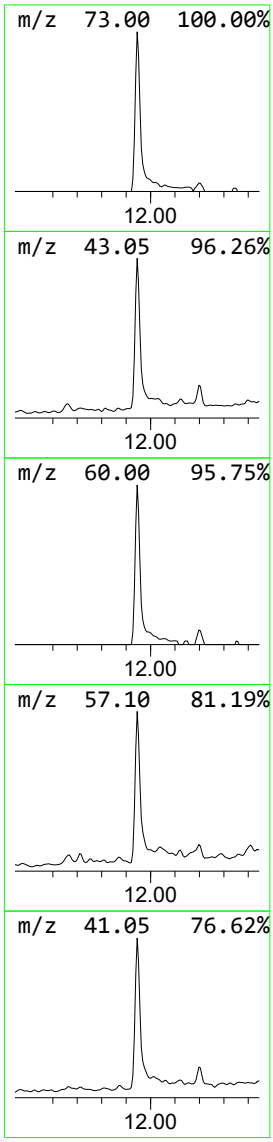
Instrument : BNA_F
ClientSampleId : TP-19

Peak Number 3 n-Hexadecanoic acid Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.945	4.66 ng	152975	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	94
3	Pentadecanoic acid	242	C15H30O2	001002-84-2	87
4	Tetradecanoic acid	228	C14H28O2	000544-63-8	80
5	Undecanoic acid	186	C11H22O2	000112-37-8	68





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052125\
Data File : BF142484.D
Acq On : 21 May 2025 13:40
Operator : RC/JU
Sample : Q2074-06
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-19

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

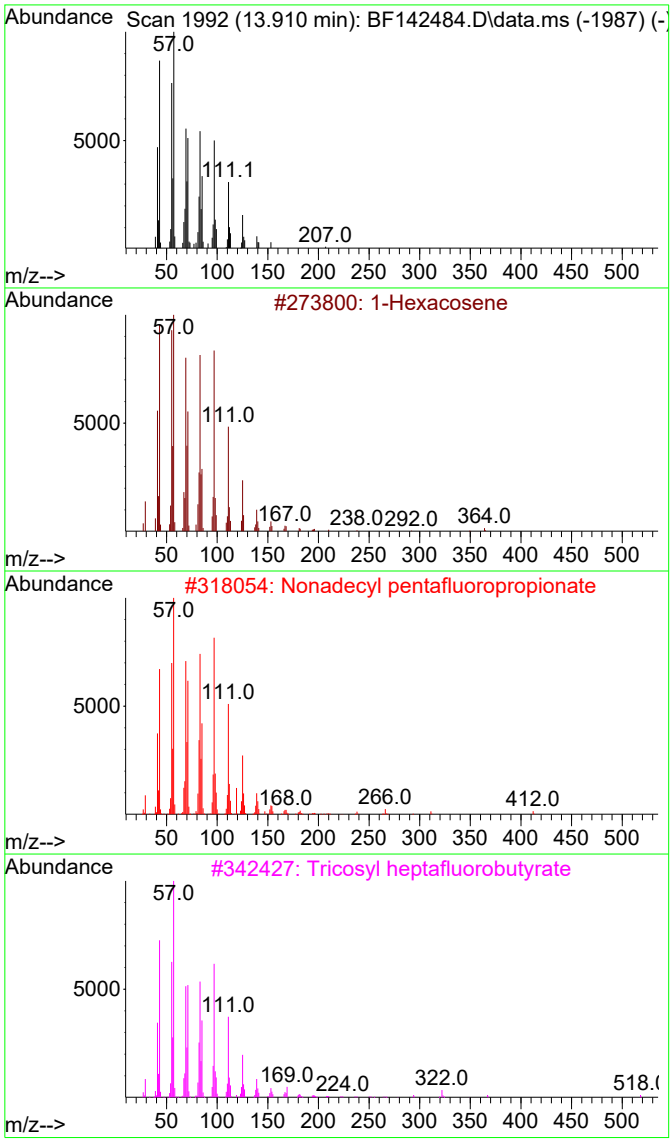
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

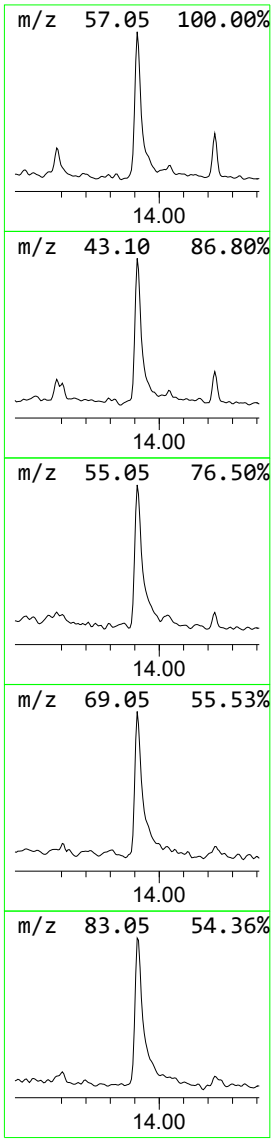
****

Peak Number 4 1-Hexacosene Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.910	3.52 ng	117217	Chrysene-d12	14.068

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Hexacosene	364	C26H52	018835-33-1	93
2	Nonadecyl pentafluoropropionate	430	C22H39F5O2	1000351-88-8	91
3	Tricosyl heptafluorobutyrate	536	C27H47F7O2	1000351-83-4	91
4	Octacosyl trifluoroacetate	506	C30H57F3O2	1000351-74-9	91
5	Octadecyl trifluoroacetate	366	C20H37F3O2	079392-43-1	91





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052125\
Data File : BF142484.D
Acq On : 21 May 2025 13:40
Operator : RC/JU
Sample : Q2074-06
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-19

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-...	5.092	6.1	ng	119776	1	6.898	390414	20.0
Benzophenone	10.651	4.9	ng	143288	3	9.933	587194	20.0
n-Hexadecanoic ...	11.945	4.7	ng	152975	4	11.422	656874	20.0
1-Hexacosene	13.910	3.5	ng	117217	5	14.068	666613	20.0

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052225\
Data File : BF142515.D
Acq On : 22 May 2025 17:32
Operator : RC/JU
Sample : Q2074-07
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-40

Quant Time: May 23 01:22:37 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

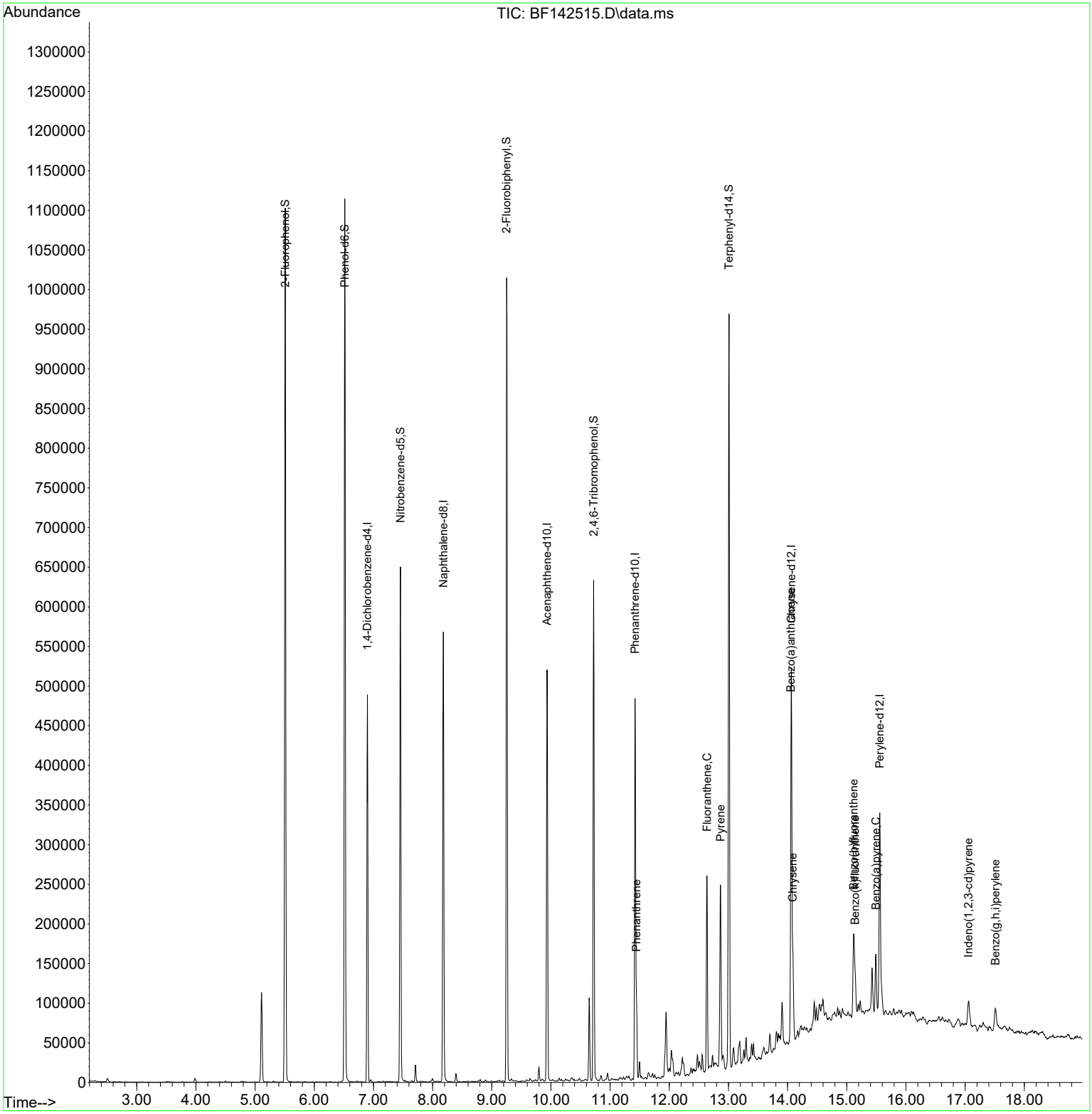
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.898	152	105109	20.000	ng	0.00
21) Naphthalene-d8	8.181	136	356070	20.000	ng	0.00
39) Acenaphthene-d10	9.934	164	155651	20.000	ng	-0.01
64) Phenanthrene-d10	11.422	188	248584	20.000	ng	-0.01
76) Chrysene-d12	14.063	240	190159	20.000	ng	-0.01
86) Perylene-d12	15.557	264	152099	20.000	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.510	112	414930	66.508	ng	0.00
7) Phenol-d6	6.516	99	503390	67.029	ng	-0.02
23) Nitrobenzene-d5	7.457	82	267452	40.958	ng	-0.02
42) 2,4,6-Tribromophenol	10.722	330	105901	61.302	ng	-0.02
45) 2-Fluorobiphenyl	9.251	172	459619	39.624	ng	-0.02
79) Terphenyl-d14	13.010	244	460591	33.100	ng	0.00
Target Compounds						Qvalue
71) Phenanthrene	11.445	178	50563	3.806	ng	99
75) Fluoranthene	12.639	202	145071	11.687	ng	99
78) Pyrene	12.869	202	141308	7.966	ng	99
81) Benzo(a)anthracene	14.057	228	60130m	4.735	ng	
83) Chrysene	14.086	228	60922m	5.339	ng	
87) Indeno(1,2,3-cd)pyrene	17.057	276	26567	2.327	ng	96
88) Benzo(b)fluoranthene	15.116	252	77029m	8.557	ng	
89) Benzo(k)fluoranthene	15.139	252	17854m	2.118	ng	
90) Benzo(a)pyrene	15.492	252	45711	5.387	ng	97
92) Benzo(g,h,i)perylene	17.515	276	26352	2.845	ng	95

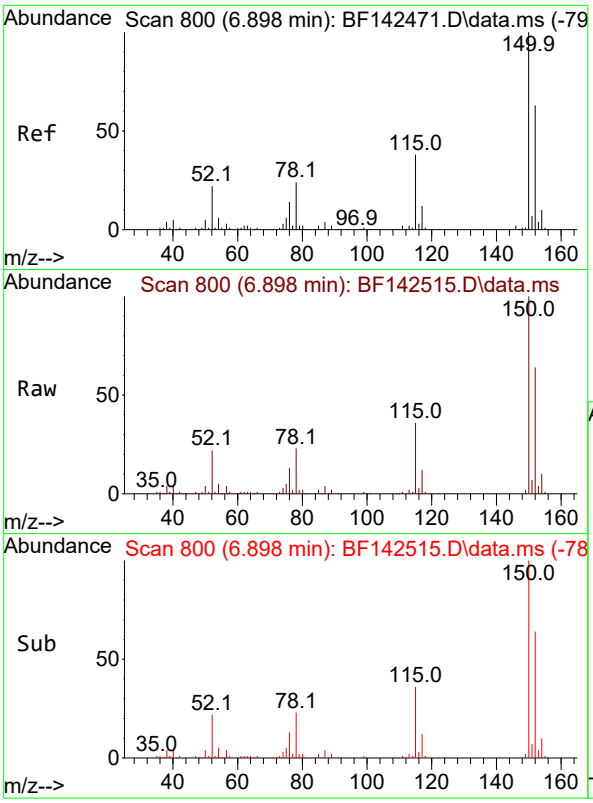
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052225\
Data File : BF142515.D
Acq On : 22 May 2025 17:32
Operator : RC/JU
Sample : Q2074-07
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-40

Quant Time: May 23 01:22:37 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



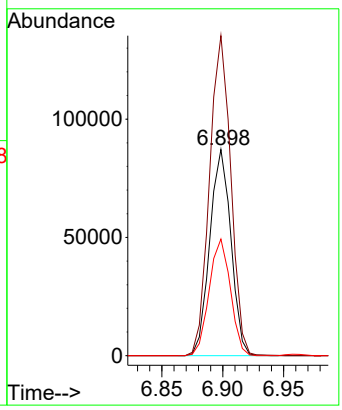


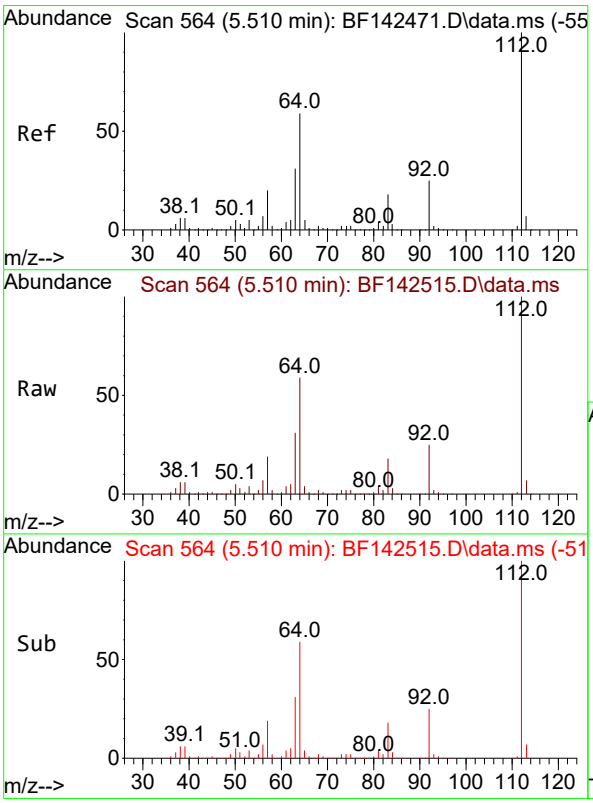
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.898 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF142515.D
Acq: 22 May 2025 17:32

Instrument :
BNA_F
ClientSampleId :
TP-40

Tgt Ion:152 Resp: 105109

Ion	Ratio	Lower	Upper
152	100		
150	155.2	128.2	192.4
115	56.6	48.3	72.5

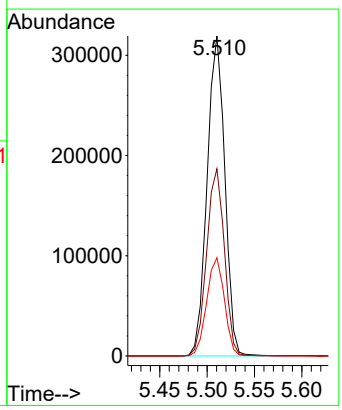


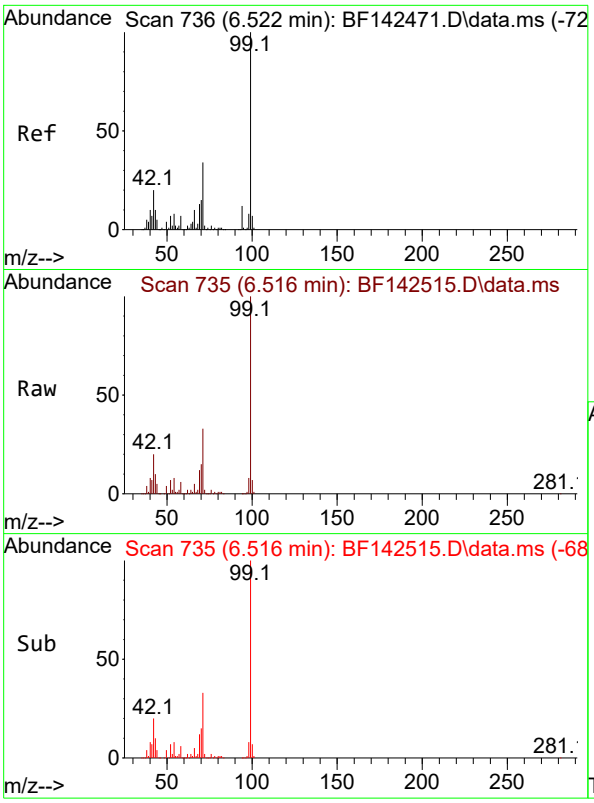


#5
2-Fluorophenol
Concen: 66.508 ng
RT: 5.510 min Scan# 564
Delta R.T. -0.006 min
Lab File: BF142515.D
Acq: 22 May 2025 17:32

Tgt Ion:112 Resp: 414930

Ion	Ratio	Lower	Upper
112	100		
64	58.5	47.5	71.3
63	30.7	24.9	37.3



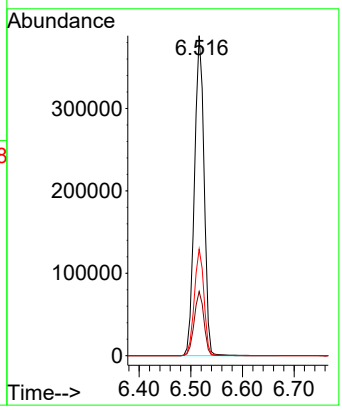


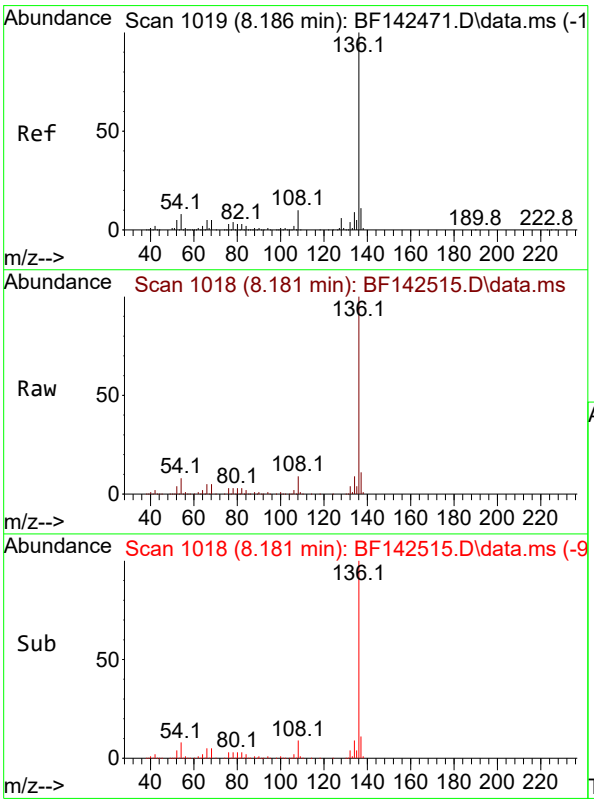
#7
Phenol-d6
Concen: 67.029 ng
RT: 6.516 min Scan# 7
Delta R.T. -0.017 min
Lab File: BF142515.D
Acq: 22 May 2025 17:32

Instrument :
BNA_F
ClientSampleId :
TP-40

Tgt Ion: 99 Resp: 503390

Ion	Ratio	Lower	Upper
99	100		
42	20.0	16.2	24.2
71	33.3	27.3	40.9

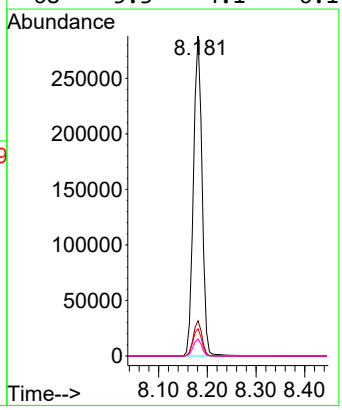


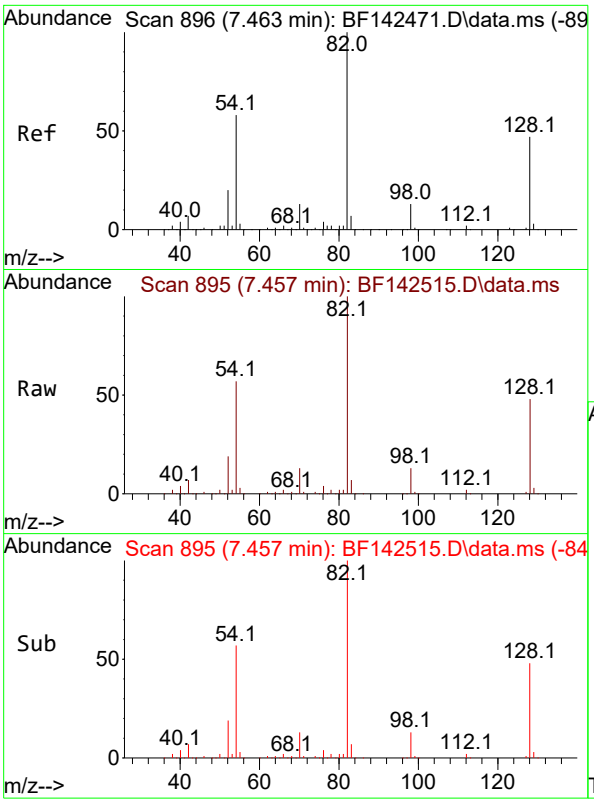


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.181 min Scan# 1018
Delta R.T. -0.006 min
Lab File: BF142515.D
Acq: 22 May 2025 17:32

Tgt Ion:136 Resp: 356070

Ion	Ratio	Lower	Upper
136	100		
137	11.0	8.6	13.0
54	8.5	6.6	10.0
68	5.3	4.1	6.1



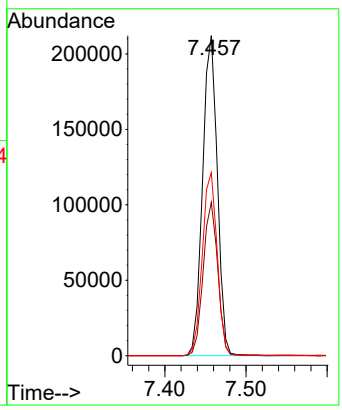


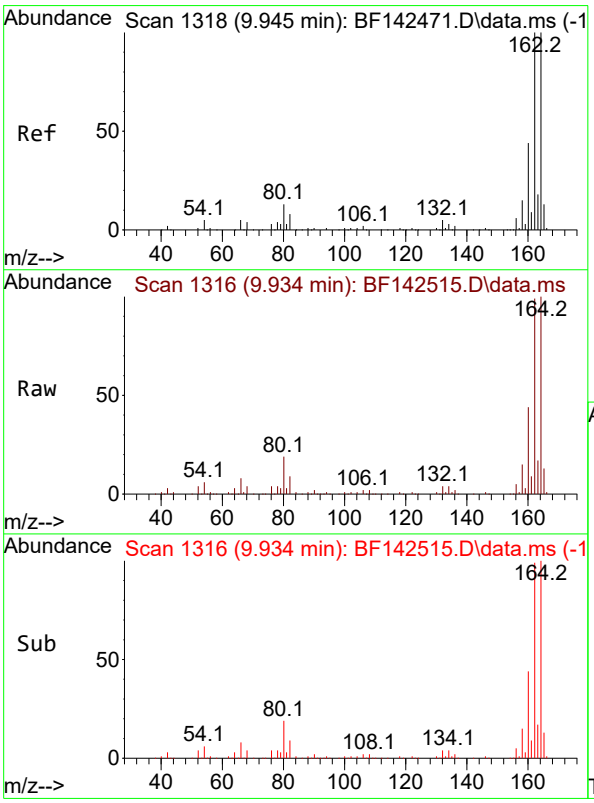
#23
Nitrobenzene-d5
Concen: 40.958 ng
RT: 7.457 min Scan# 8
Delta R.T. -0.017 min
Lab File: BF142515.D
Acq: 22 May 2025 17:32

Instrument :
BNA_F
ClientSampleId :
TP-40

Tgt Ion: 82 Resp: 267452

Ion	Ratio	Lower	Upper
82	100		
128	47.9	37.4	56.2
54	57.2	46.6	70.0

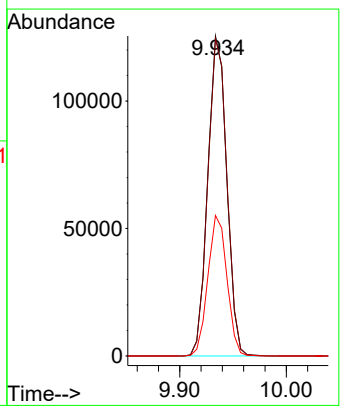


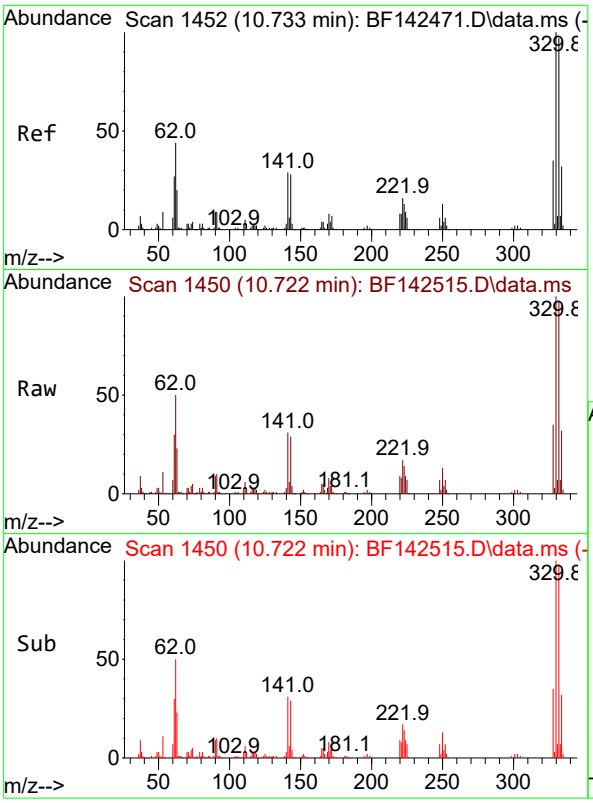


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.934 min Scan# 1316
Delta R.T. -0.012 min
Lab File: BF142515.D
Acq: 22 May 2025 17:32

Tgt Ion:164 Resp: 155651

Ion	Ratio	Lower	Upper
164	100		
162	99.2	80.2	120.4
160	43.9	35.6	53.4



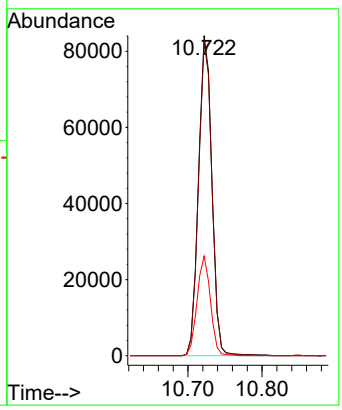


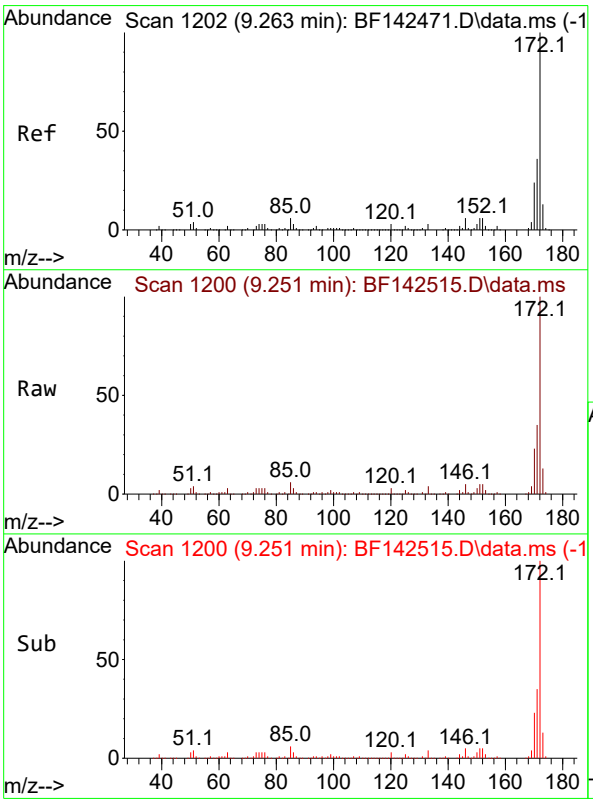
#42
2,4,6-Tribromophenol
Concen: 61.302 ng
RT: 10.722 min Scan# 14
Delta R.T. -0.017 min
Lab File: BF142515.D
Acq: 22 May 2025 17:32

Instrument :
BNA_F
ClientSampleId :
TP-40

Tgt Ion:330 Resp: 105901

Ion	Ratio	Lower	Upper
330	100		
332	98.0	77.6	116.4
141	30.9	24.6	36.8

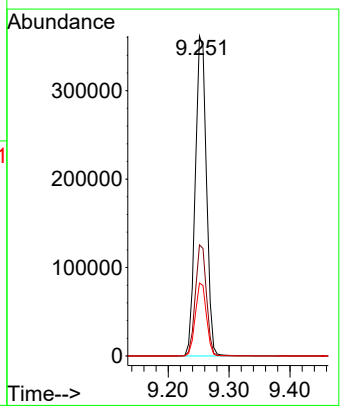


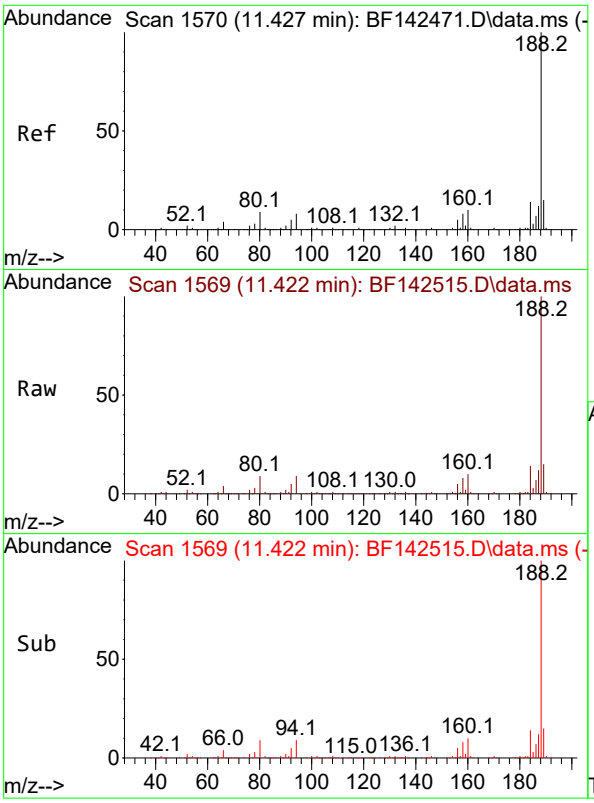


#45
2-Fluorobiphenyl
Concen: 39.624 ng
RT: 9.251 min Scan# 1200
Delta R.T. -0.017 min
Lab File: BF142515.D
Acq: 22 May 2025 17:32

Tgt Ion:172 Resp: 459619

Ion	Ratio	Lower	Upper
172	100		
171	34.7	28.6	42.8
170	22.8	18.9	28.3



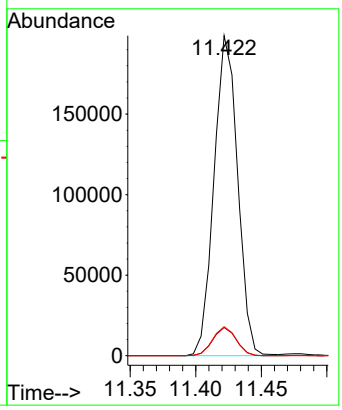


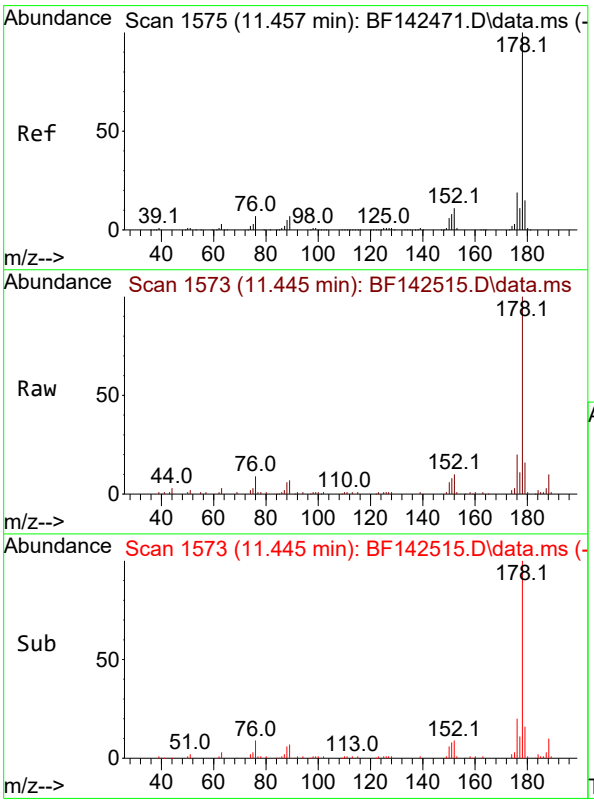
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.422 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF142515.D
Acq: 22 May 2025 17:32

Instrument :
BNA_F
ClientSampleId :
TP-40

Tgt Ion:188 Resp: 248584

Ion	Ratio	Lower	Upper
188	100		
94	8.8	6.6	10.0
80	9.0	7.4	11.0

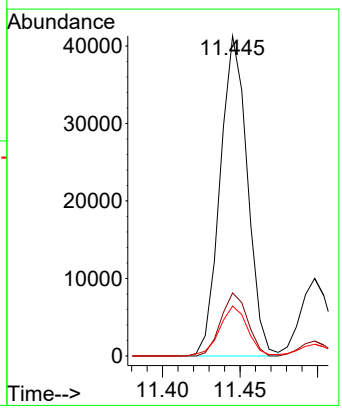


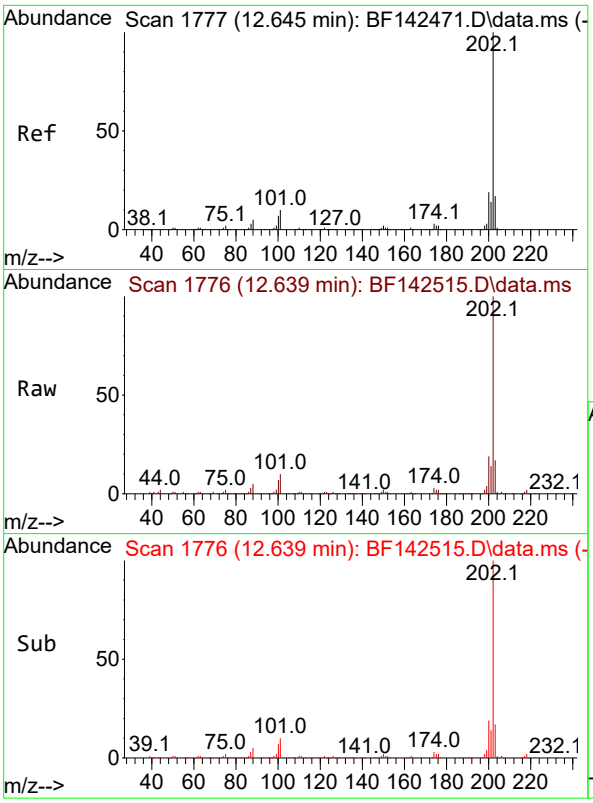


#71
Phenanthrene
Concen: 3.806 ng
RT: 11.445 min Scan# 1573
Delta R.T. -0.012 min
Lab File: BF142515.D
Acq: 22 May 2025 17:32

Tgt Ion:178 Resp: 50563

Ion	Ratio	Lower	Upper
178	100		
176	19.7	15.4	23.0
179	15.6	12.3	18.5



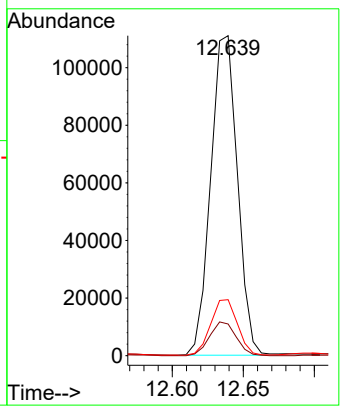


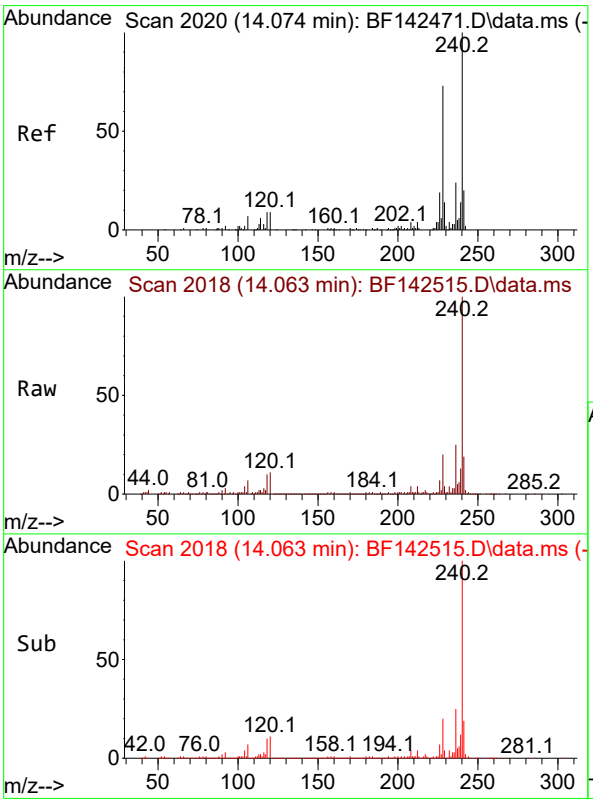
#75
Fluoranthene
Concen: 11.687 ng
RT: 12.639 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF142515.D
Acq: 22 May 2025 17:32

Instrument :
BNA_F
ClientSampleId :
TP-40

Tgt Ion:202 Resp: 145071

Ion	Ratio	Lower	Upper
202	100		
101	9.9	0.0	29.6
203	17.5	0.0	37.2

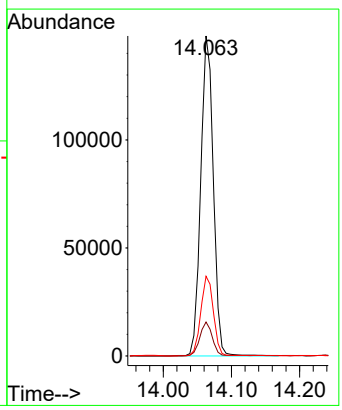


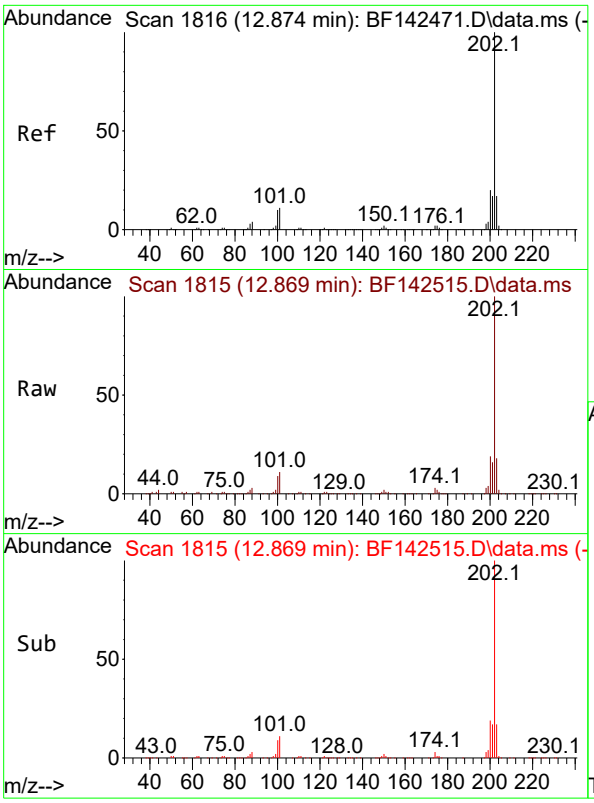


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.063 min Scan# 2018
Delta R.T. -0.012 min
Lab File: BF142515.D
Acq: 22 May 2025 17:32

Tgt Ion:240 Resp: 190159

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



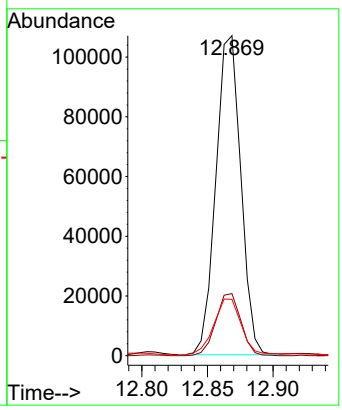


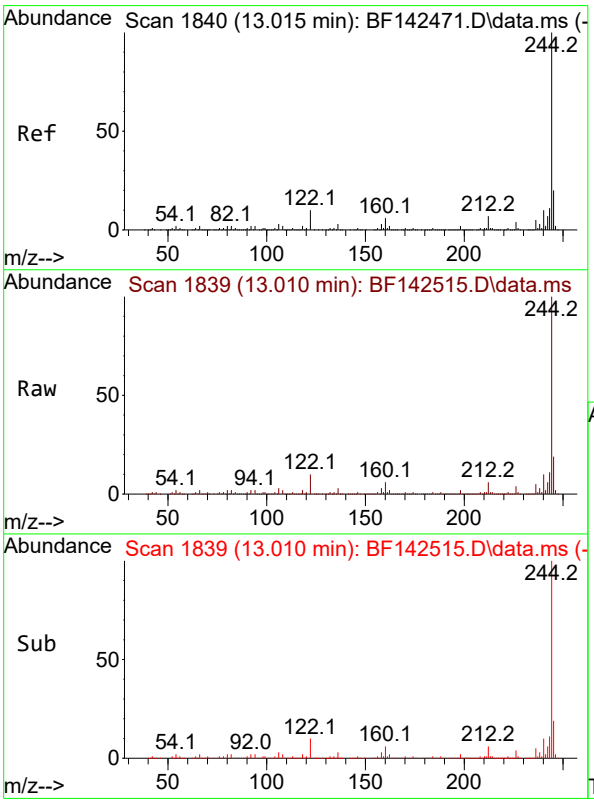
#78
Pyrene
Concen: 7.966 ng
RT: 12.869 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF142515.D
Acq: 22 May 2025 17:32

Instrument :
BNA_F
ClientSampleId :
TP-40

Tgt Ion:202 Resp: 141308

Ion	Ratio	Lower	Upper
202	100		
200	19.4	16.1	24.1
203	17.6	13.9	20.9

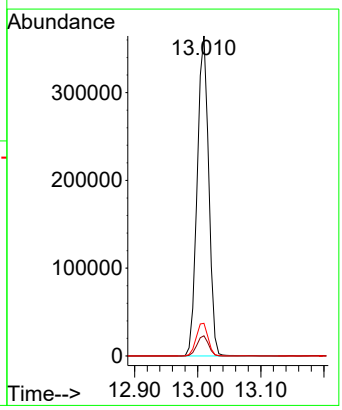


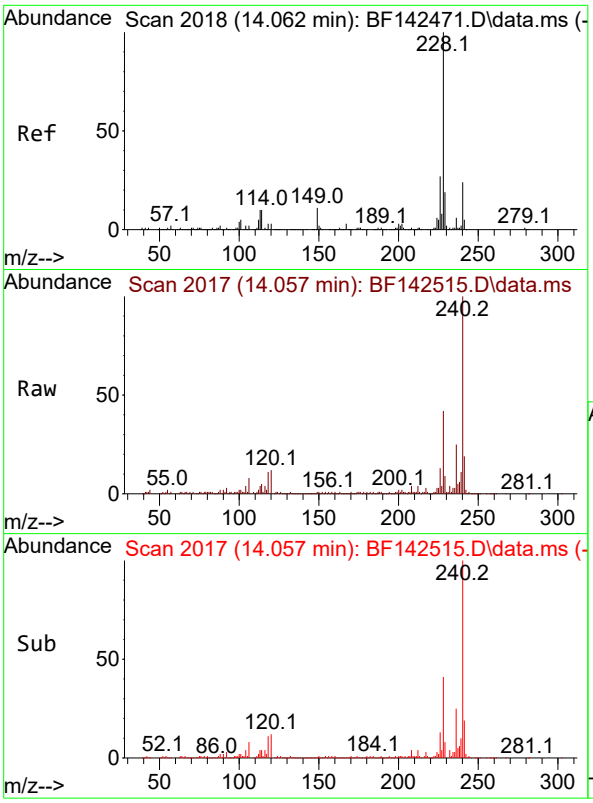


#79
Terphenyl-d14
Concen: 33.100 ng
RT: 13.010 min Scan# 1839
Delta R.T. -0.006 min
Lab File: BF142515.D
Acq: 22 May 2025 17:32

Tgt Ion:244 Resp: 460591

Ion	Ratio	Lower	Upper
244	100		
212	6.3	5.3	7.9
122	10.2	8.2	12.2



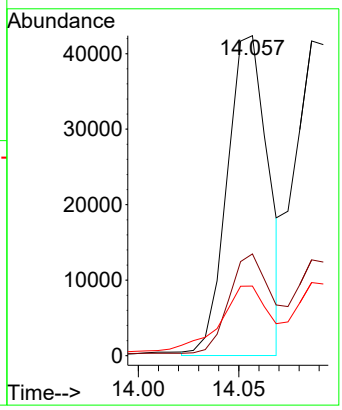


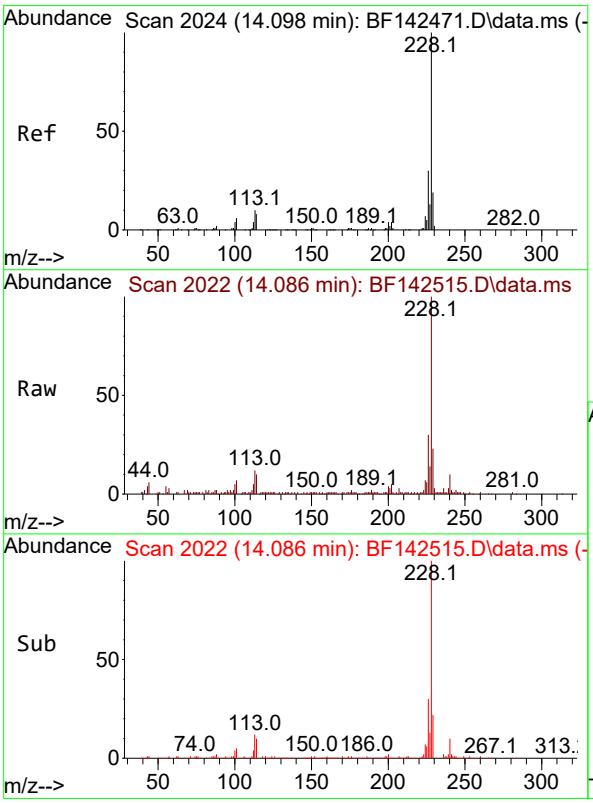
#81
Benzo(a)anthracene
Concen: 4.735 ng m
RT: 14.057 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF142515.D
Acq: 22 May 2025 17:32

Instrument :
BNA_F
ClientSampleId :
TP-40

Tgt Ion:228 Resp: 60130

Ion	Ratio	Lower	Upper
228	100		
226	31.8	21.2	31.8#
229	21.7	15.5	23.3

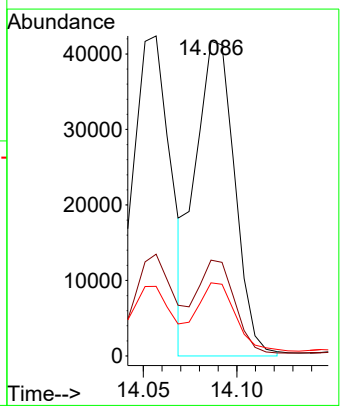


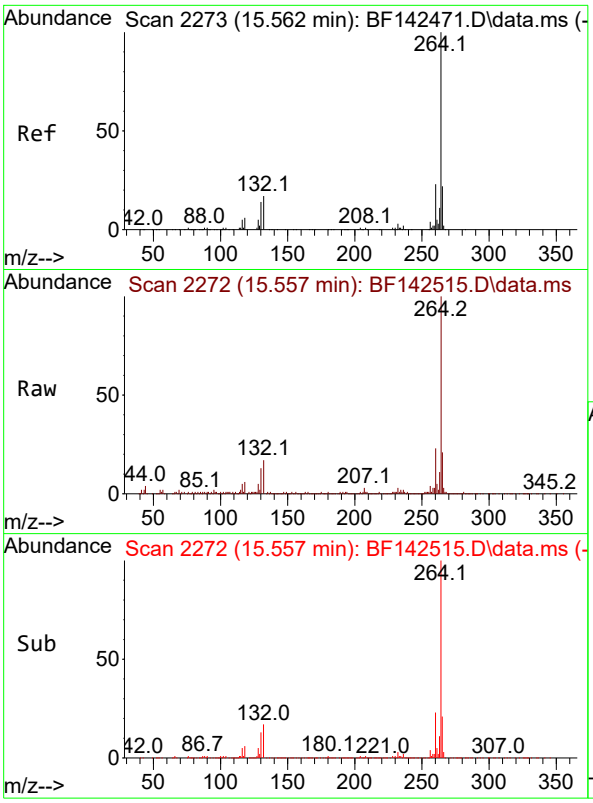


#83
Chrysene
Concen: 5.339 ng m
RT: 14.086 min Scan# 2022
Delta R.T. -0.017 min
Lab File: BF142515.D
Acq: 22 May 2025 17:32

Tgt Ion:228 Resp: 60922

Ion	Ratio	Lower	Upper
228	100		
226	30.5	23.8	35.6
229	23.2	15.4	23.2#



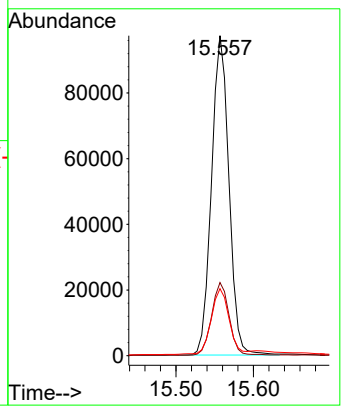


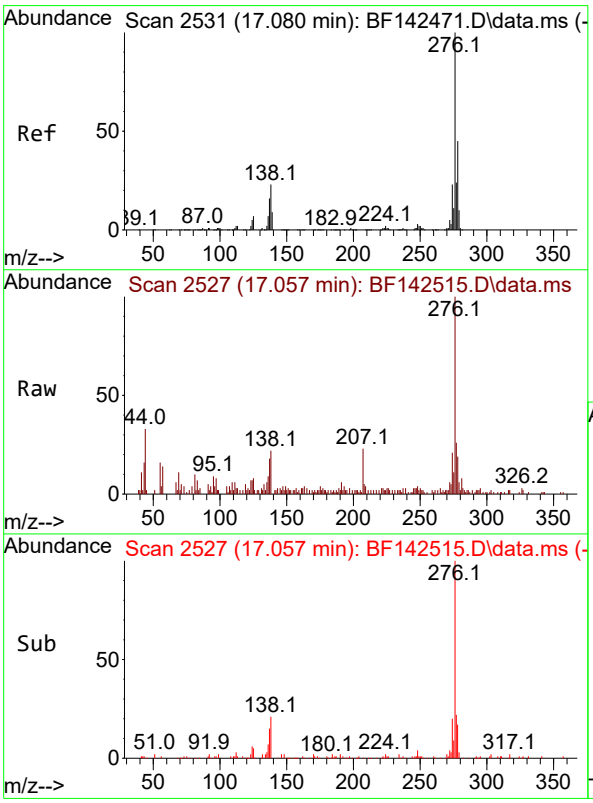
#86
Perylene-d12
Concen: 20.000 ng
RT: 15.557 min Scan# 2
Delta R.T. -0.012 min
Lab File: BF142515.D
Acq: 22 May 2025 17:32

Instrument :
BNA_F
ClientSampleId :
TP-40

Tgt Ion:264 Resp: 152099

Ion	Ratio	Lower	Upper
264	100		
260	22.8	18.6	28.0
265	21.0	17.7	26.5

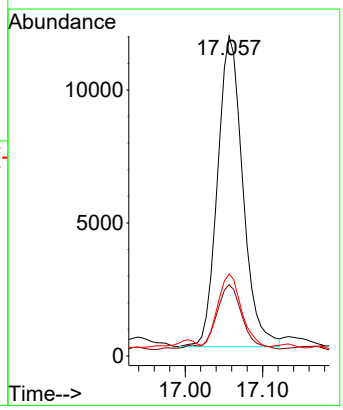


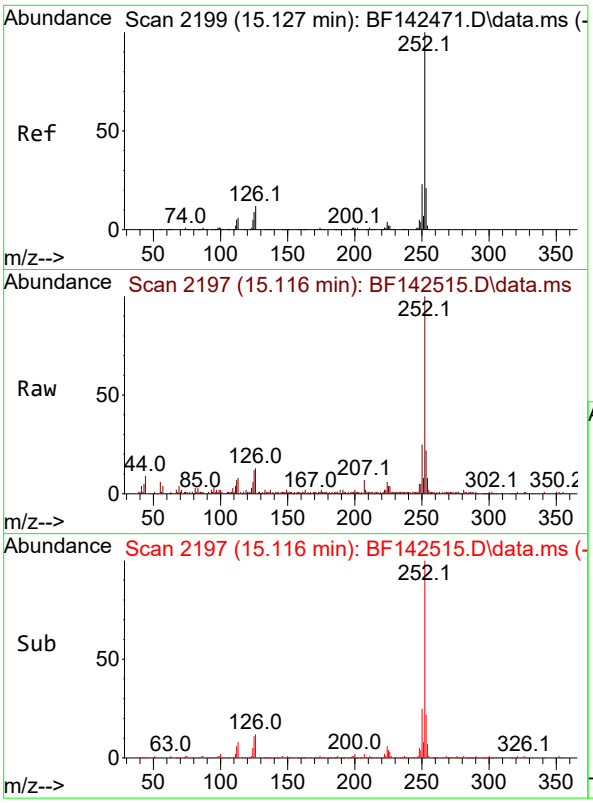


#87
Indeno(1,2,3-cd)pyrene
Concen: 2.327 ng
RT: 17.057 min Scan# 2527
Delta R.T. -0.035 min
Lab File: BF142515.D
Acq: 22 May 2025 17:32

Tgt Ion:276 Resp: 26567

Ion	Ratio	Lower	Upper
276	100		
138	22.9	19.9	29.9
277	23.2	20.2	30.2



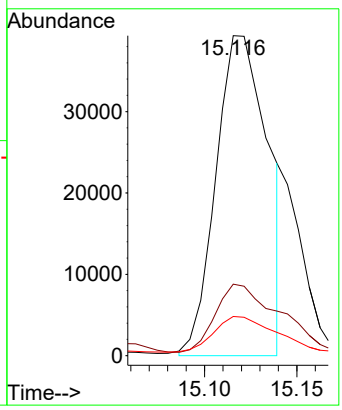


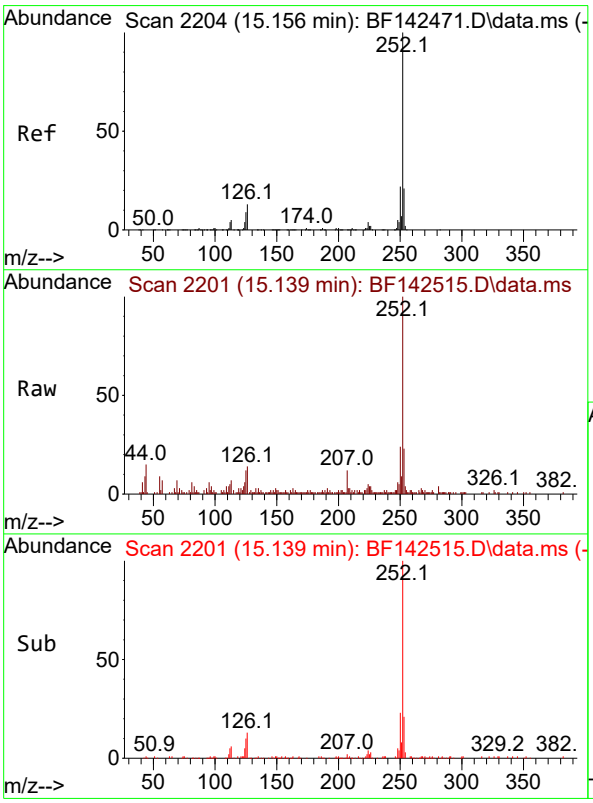
#88
Benzo(b)fluoranthene
Concen: 8.557 ng m
RT: 15.116 min Scan# 21
Delta R.T. -0.012 min
Lab File: BF142515.D
Acq: 22 May 2025 17:32

Instrument :
BNA_F
ClientSampleId :
TP-40

Tgt Ion:252 Resp: 77029

Ion	Ratio	Lower	Upper
252	100		
253	22.3	17.0	25.4
125	12.3	7.4	11.0#

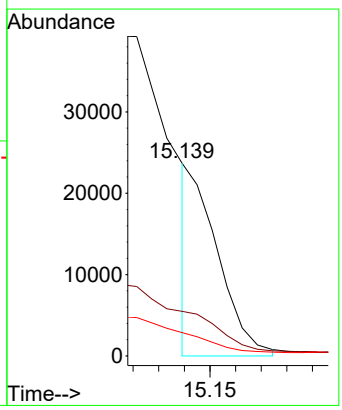


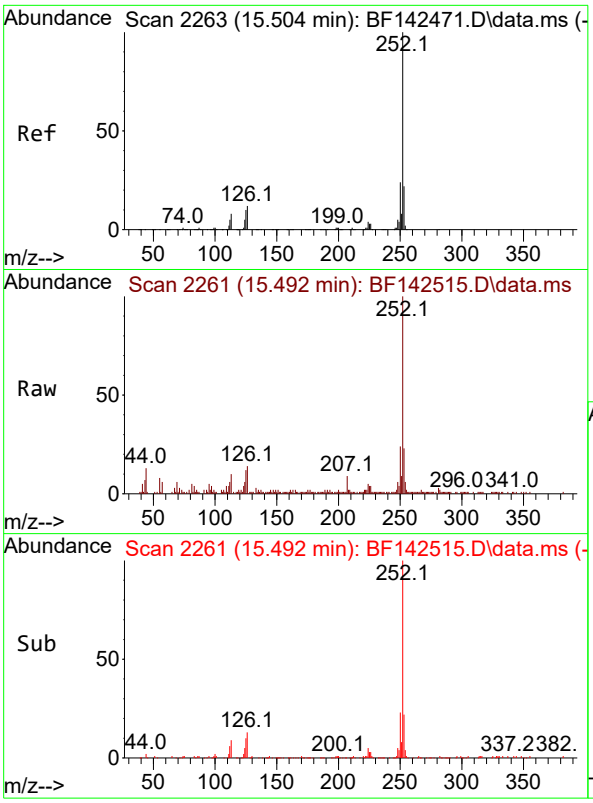


#89
Benzo(k)fluoranthene
Concen: 2.118 ng m
RT: 15.139 min Scan# 2201
Delta R.T. -0.023 min
Lab File: BF142515.D
Acq: 22 May 2025 17:32

Tgt Ion:252 Resp: 17854

Ion	Ratio	Lower	Upper
252	100		
253	23.2	17.0	25.4
125	12.2	7.3	10.9#



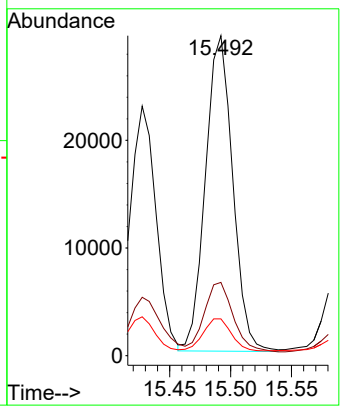


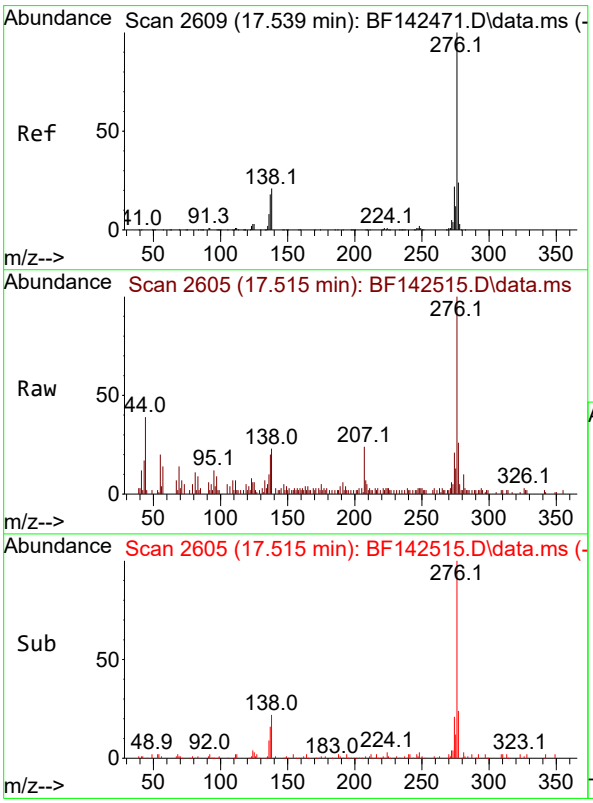
#90
Benzo(a)pyrene
Concen: 5.387 ng
RT: 15.492 min Scan# 2
Delta R.T. -0.017 min
Lab File: BF142515.D
Acq: 22 May 2025 17:32

Instrument :
BNA_F
ClientSampleId :
TP-40

Tgt Ion:252 Resp: 45711

Ion	Ratio	Lower	Upper
252	100		
253	22.9	17.4	26.0
125	11.5	7.9	11.9

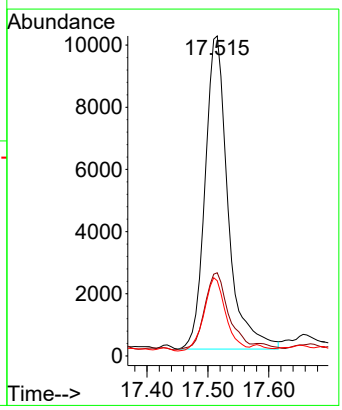




#92
Benzo(g,h,i)perylene
Concen: 2.845 ng
RT: 17.515 min Scan# 2605
Delta R.T. -0.041 min
Lab File: BF142515.D
Acq: 22 May 2025 17:32

Tgt Ion:276 Resp: 26352

Ion	Ratio	Lower	Upper
276	100		
277	26.0	19.2	28.8
138	23.5	16.8	25.2



Sample Results: **BF142515.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052225\
Data File : BF142515.D
Acq On : 22 May 2025 17:32
Operator : RC/JU
Sample : Q2074-07
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-40

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: BF142515.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	488	496	504	rBV	113098	163668	11.23%	1.241%
2	5.510	558	564	569	rBV	1102276	1430726	98.18%	10.847%
3	6.516	729	735	747	rVB	1113114	1457269	100.00%	11.048%
4	6.898	795	800	805	rBV	488666	590881	40.55%	4.480%
5	7.457	889	895	900	rBV	649724	816688	56.04%	6.191%
6	7.710	933	938	947	rVB	21602	27805	1.91%	0.211%
7	8.181	1012	1018	1026	rBV	567463	703045	48.24%	5.330%
8	9.251	1195	1200	1206	rBV	1014168	1269819	87.14%	9.627%
9	9.798	1288	1293	1299	rBV	17050	21585	1.48%	0.164%
10	9.934	1311	1316	1321	rBV	518219	642285	44.07%	4.869%
11	10.645	1432	1437	1445	rBV	104676	130805	8.98%	0.992%
12	10.722	1445	1450	1455	rBV	630967	781827	53.65%	5.927%
13	11.422	1564	1569	1578	rBV2	480896	718276	49.29%	5.445%
14	11.498	1578	1582	1585	rVV	19862	23172	1.59%	0.176%
15	11.645	1602	1607	1615	rBV4	7909	18899	1.30%	0.143%
16	11.945	1650	1658	1664	rBV2	81931	157421	10.80%	1.193%
17	12.033	1670	1673	1683	rVB3	32176	68963	4.73%	0.523%
18	12.222	1697	1705	1707	rBV2	22100	39677	2.72%	0.301%
19	12.475	1744	1748	1751	rBV	20349	25015	1.72%	0.190%
20	12.510	1751	1754	1759	rVV3	10769	16906	1.16%	0.128%
21	12.557	1759	1762	1768	rVB	21917	28320	1.94%	0.215%
22	12.639	1770	1776	1780	rBV	246950	330730	22.70%	2.507%
23	12.733	1788	1792	1795	rBV	14596	17453	1.20%	0.132%
24	12.863	1807	1814	1819	rBV	228921	342671	23.51%	2.598%
25	13.010	1831	1839	1845	rBV	950779	1240414	85.12%	9.404%
26	13.086	1847	1852	1858	rBV2	23892	44649	3.06%	0.338%
27	13.192	1863	1870	1874	rVB	27971	59543	4.09%	0.451%
28	13.263	1878	1882	1884	rVV	15741	21102	1.45%	0.160%
29	13.298	1884	1888	1895	rVB2	30070	45592	3.13%	0.346%
30	13.392	1900	1904	1907	rVV	18974	23425	1.61%	0.178%
31	13.422	1907	1909	1914	rVB	16104	17777	1.22%	0.135%
32	13.698	1953	1956	1962	rVB	22951	31608	2.17%	0.240%
33	13.810	1971	1975	1978	rBV2	21411	34158	2.34%	0.259%
34	13.904	1987	1991	2001	rVB3	53446	89231	6.12%	0.676%
35	14.063	2012	2018	2029	rBV2	470698	826875	56.74%	6.269%
36	14.451	2081	2084	2087	rVB	22066	25535	1.75%	0.194%

Sample Results: **BF142515.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052225\
Data File : BF142515.D
Acq On : 22 May 2025 17:32
Operator : RC/JU
Sample : Q2074-07
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-40

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

37	15.116	2192	2197	2207	rBV	103409	247689	17.00%	1.878%
38	15.427	2246	2250	2256	rVB	55068	84726	5.81%	0.642%
39	15.492	2256	2261	2266	rVV	73873	117942	8.09%	0.894%
40	15.557	2267	2272	2284	rVB	254461	456477	31.32%	3.461%

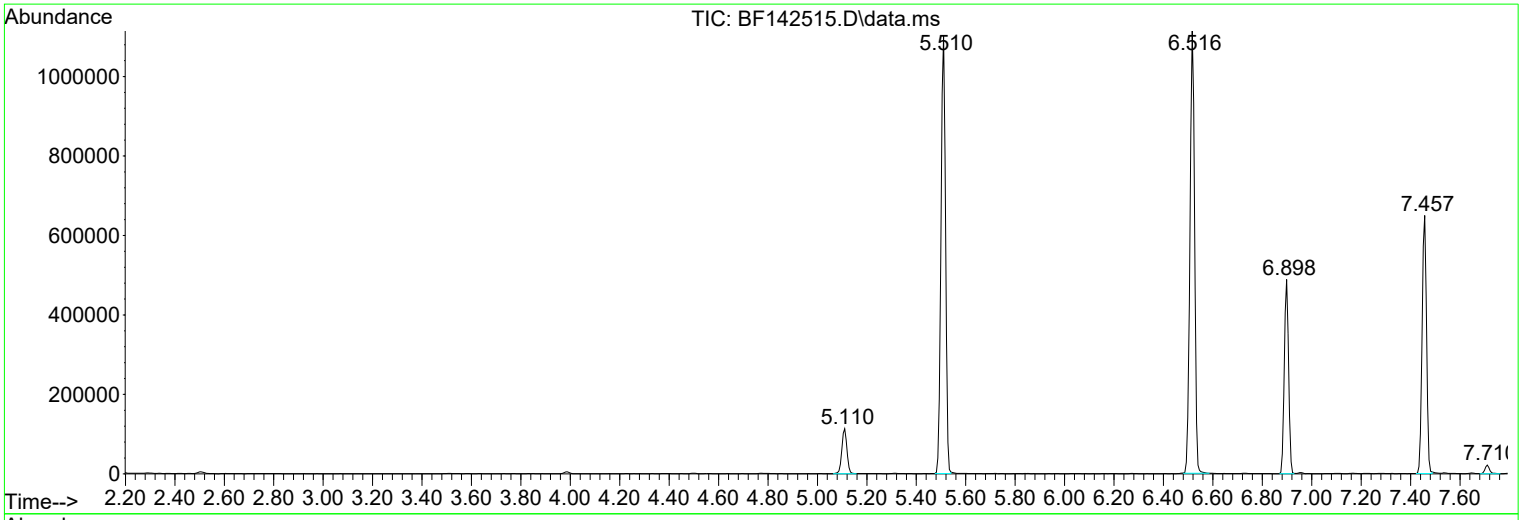
Sum of corrected areas: 13190649

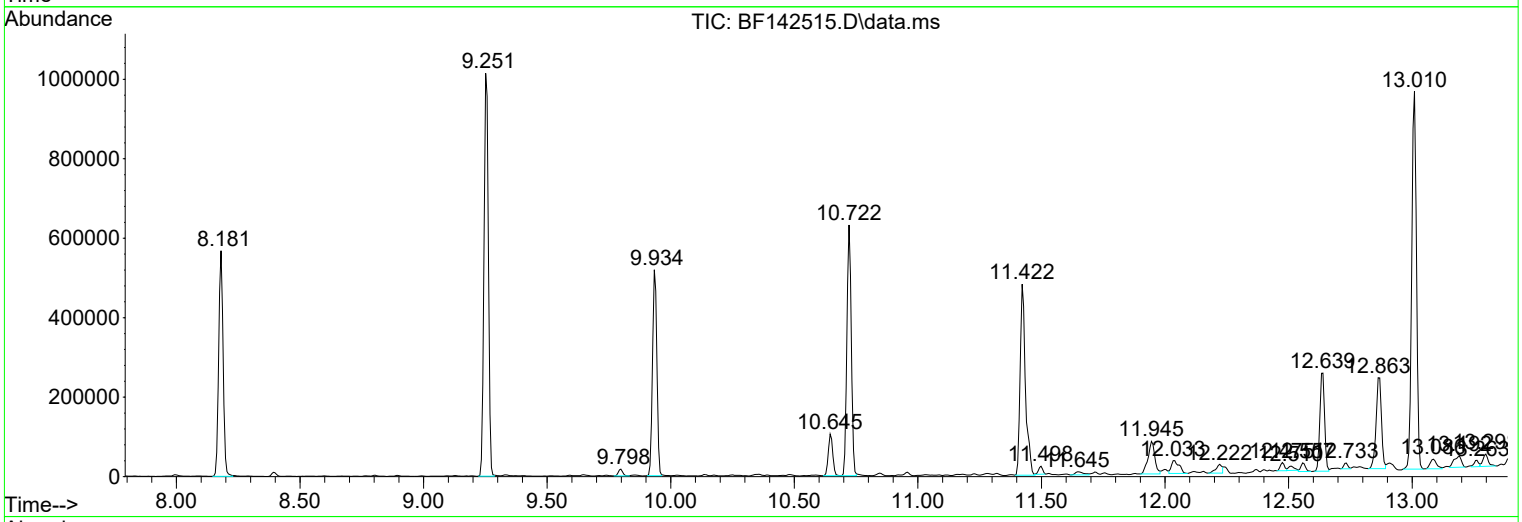
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052225\
Data File : BF142515.D
Acq On : 22 May 2025 17:32
Operator : RC/JU
Sample : Q2074-07
Misc :
ALS Vial : 15 Sample Multiplier: 1

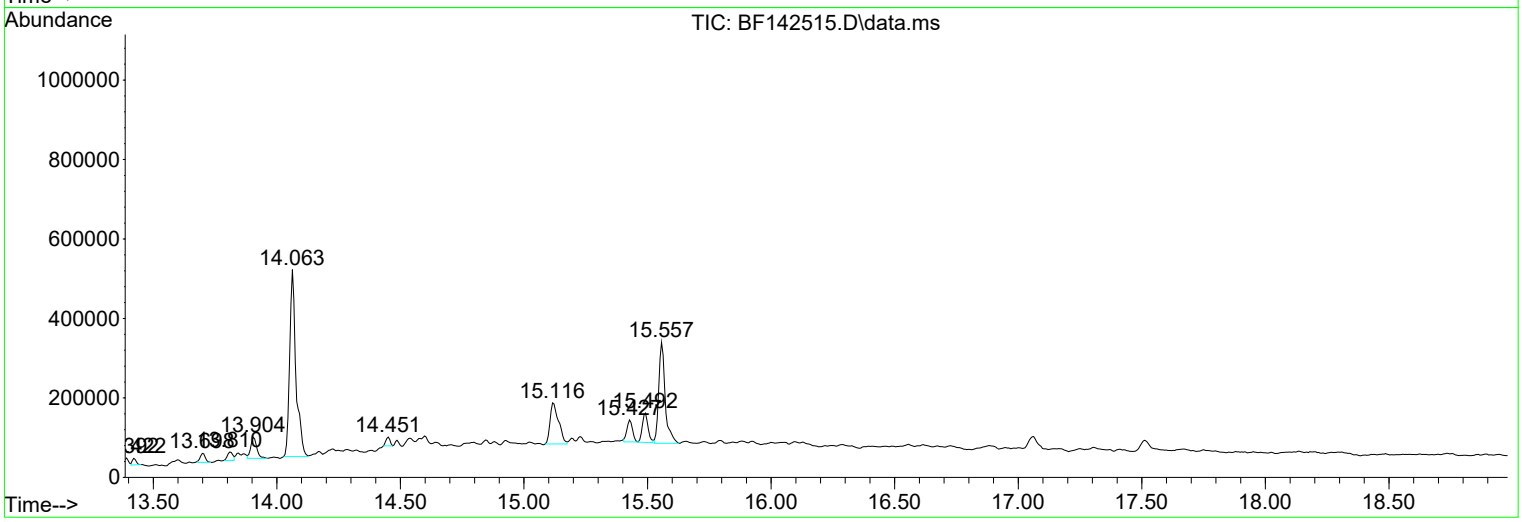
Instrument :
BNA_F
ClientSampleId :
TP-40

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\BF052225\
Data File : BF142515.D
Acq On : 22 May 2025 17:32
Operator : RC/JU
Sample : Q2074-07
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-40

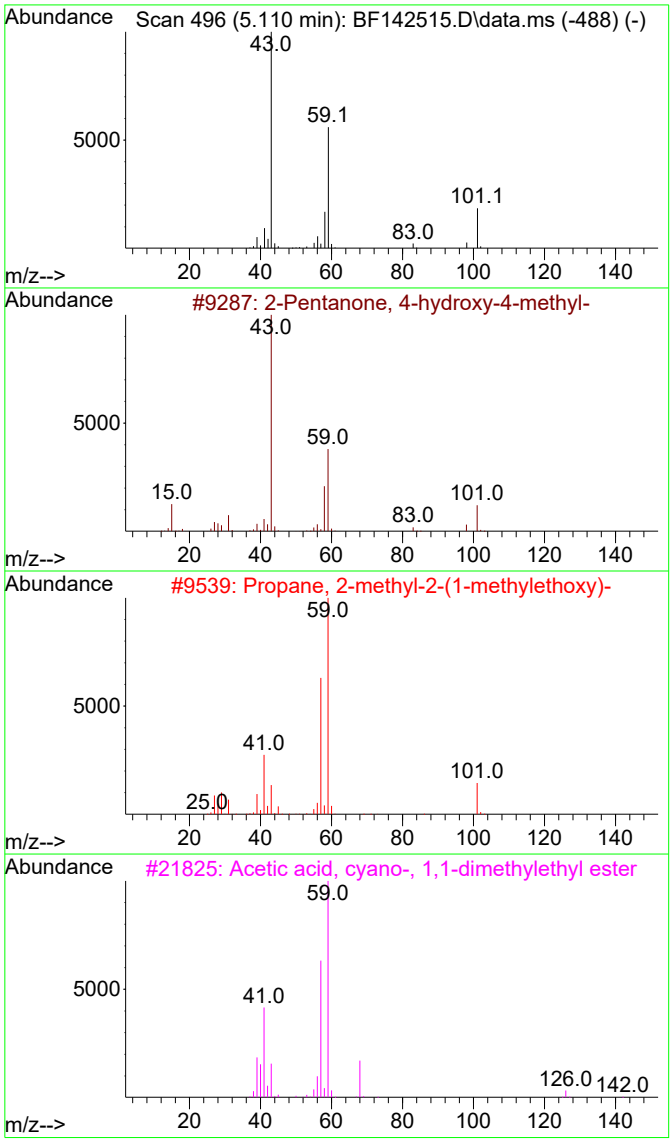
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

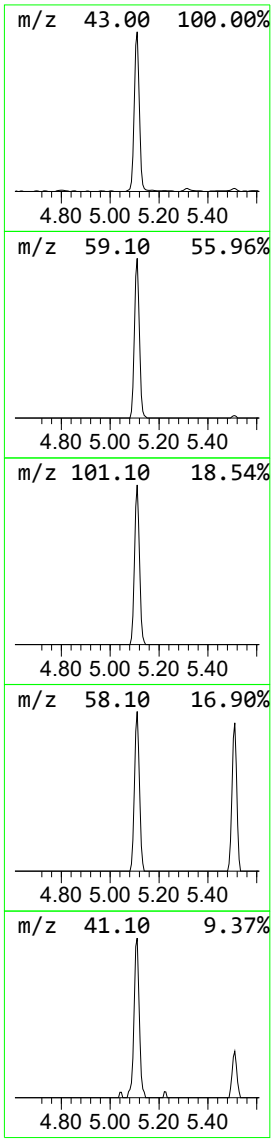
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.110	5.54 ng	163668	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	Propane, 2-methyl-2-(1-methyleth...	116	C7H16O	017348-59-3	33
3	Acetic acid, cyano-, 1,1-dimethy...	141	C7H11NO2	001116-98-9	25
4	2,3-Butanedione, monooxime	101	C4H7NO2	000057-71-6	16
5	1-Propen-2-ol, acetate	100	C5H8O2	000108-22-5	12





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052225\
Data File : BF142515.D
Acq On : 22 May 2025 17:32
Operator : RC/JU
Sample : Q2074-07
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-40

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

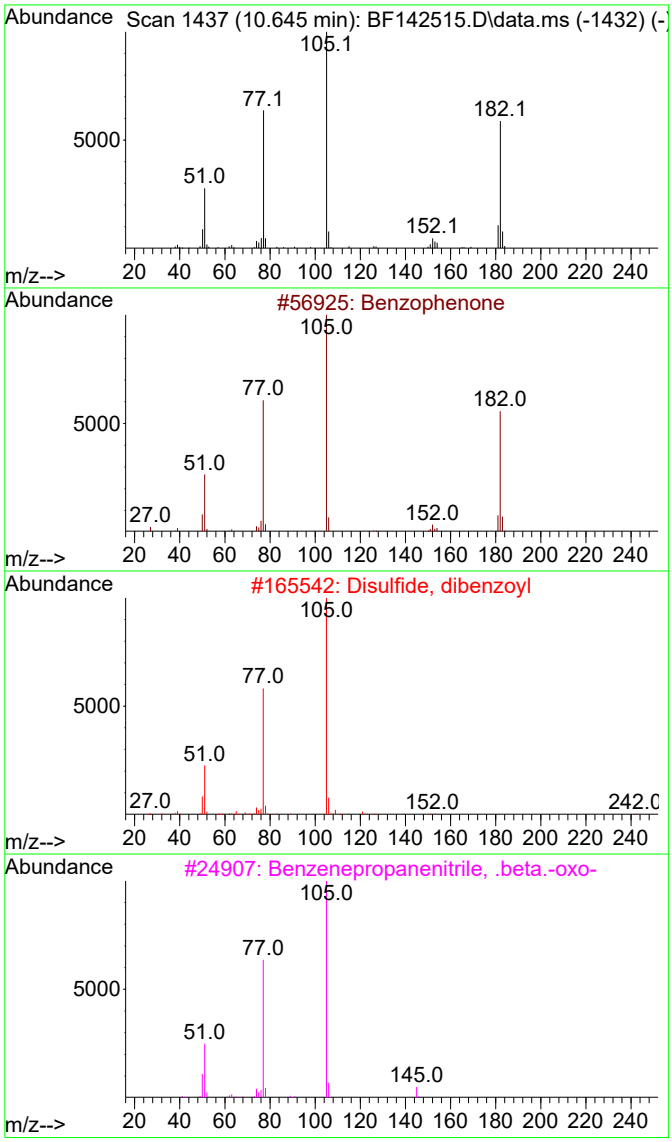
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

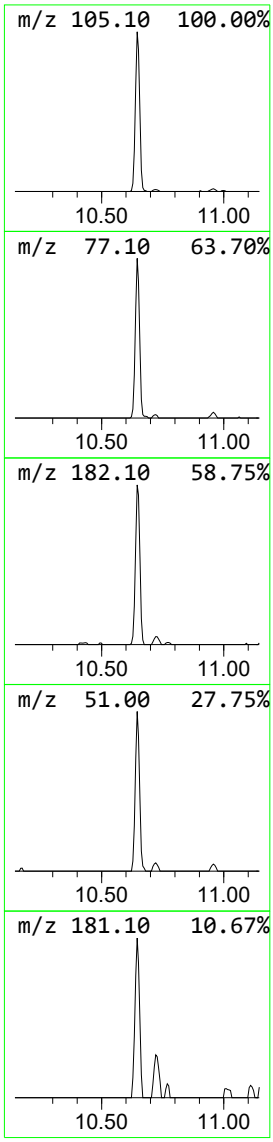
****

Peak Number 2 Benzophenone Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.645	4.07 ng	130805	Acenaphthene-d10	9.934

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzophenone	182	C13H10O	000119-61-9	97
2	Disulfide, dibenzoyl	274	C14H10O2S2	000644-32-6	49
3	Benzenepropanenitrile, .beta.-oxo-	145	C9H7NO	000614-16-4	49
4	N-Methoxy-N-methylbenzamide	165	C9H11NO2	006919-61-5	47
5	Benzenebutanoic acid, .gamma.-oxo-	178	C10H10O3	002051-95-8	47





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052225\
Data File : BF142515.D
Acq On : 22 May 2025 17:32
Operator : RC/JU
Sample : Q2074-07
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-40

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

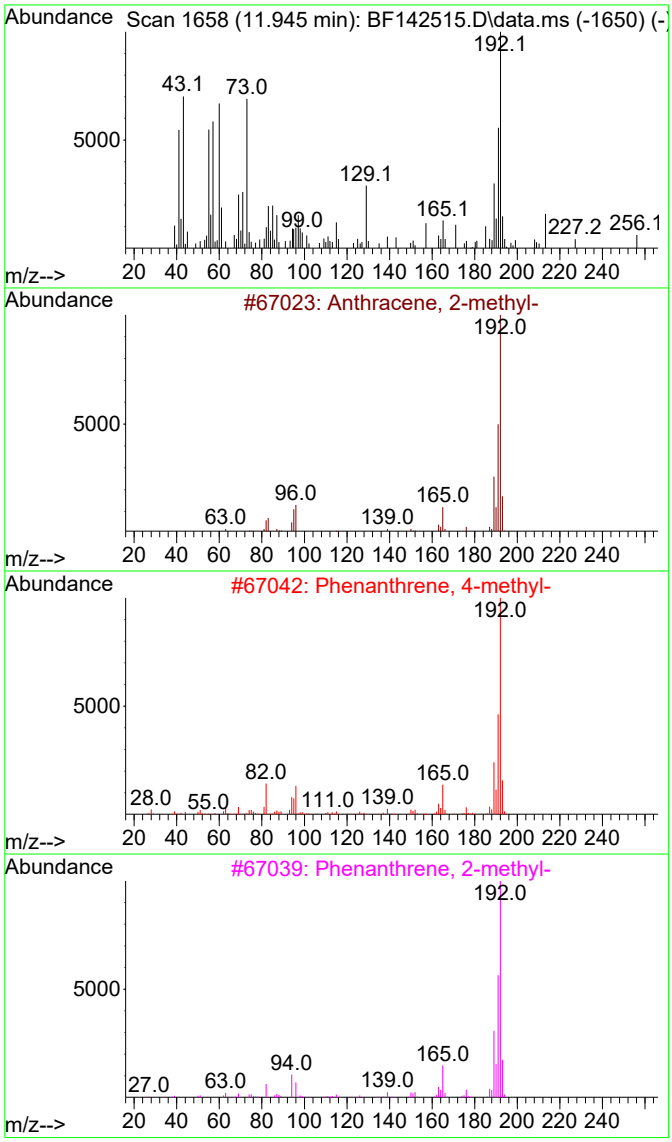
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

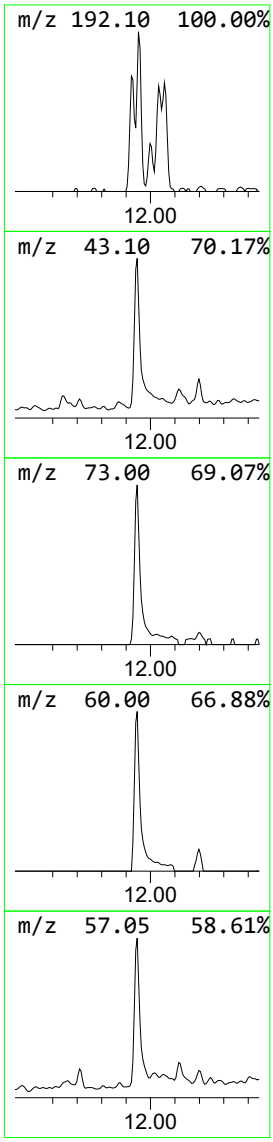
****

Peak Number 3 Anthracene, 2-methyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.945	4.38 ng	157421	Phenanthrene-d10	11.422

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 2-methyl-	192	C15H12	000613-12-7	90
2	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	89
3	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	89
4	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	87
5	Naphtho[2,3-b]norbornadiene	192	C15H12	107426-38-0	86





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052225\
Data File : BF142515.D
Acq On : 22 May 2025 17:32
Operator : RC/JU
Sample : Q2074-07
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-40

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

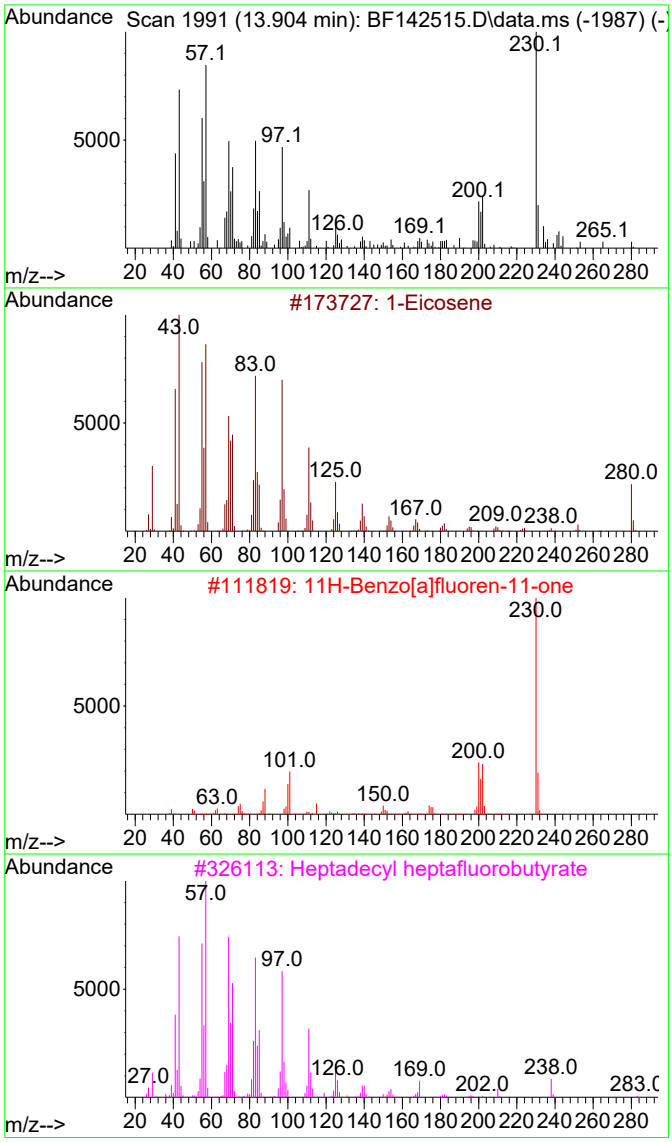
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

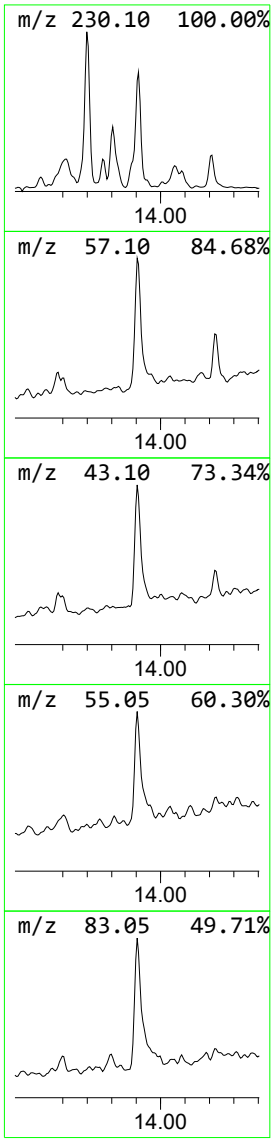
****

Peak Number 4 1-Eicosene Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.904	2.16 ng	89231	Chrysene-d12	14.063

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Eicosene	280	C20H40	003452-07-1	83
2	11H-Benzo[a]fluoren-11-one	230	C17H10O	000479-79-8	64
3	Heptadecyl heptafluorobutyrate	452	C21H35F7O2	959085-66-6	56
4	Trichloroacetic acid, pentadecyl...	372	C17H31Cl3O2	074339-53-0	55
5	Cycloeicosane	280	C20H40	000296-56-0	55





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052225\
Data File : BF142515.D
Acq On : 22 May 2025 17:32
Operator : RC/JU
Sample : Q2074-07
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-40

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

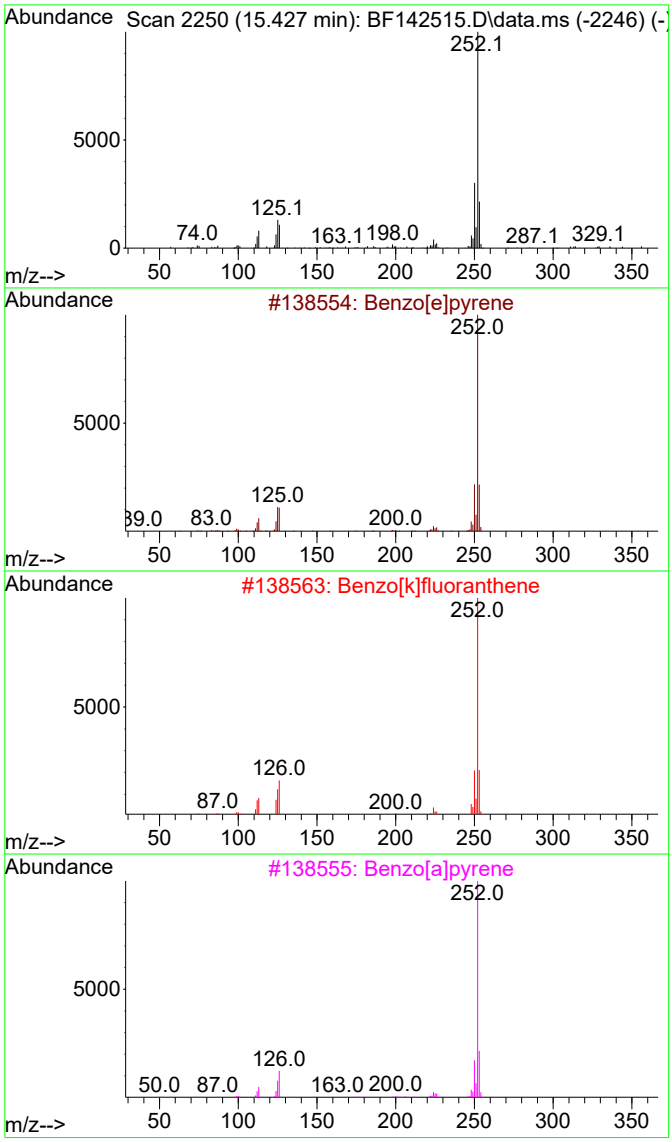
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

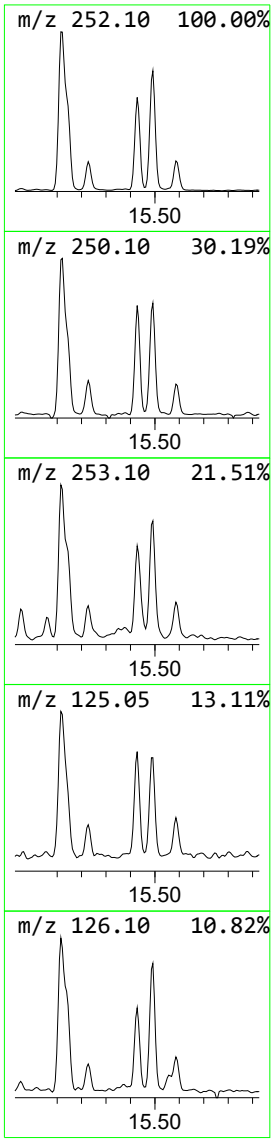
****

Peak Number 5 Benzo[e]pyrene Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.427	3.71 ng	84726	Perylene-d12	15.557

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[e]pyrene	252	C20H12	000192-97-2	98
2	Benzo[k]fluoranthene	252	C20H12	000207-08-9	97
3	Benzo[a]pyrene	252	C20H12	000050-32-8	96
4	Benzo[b]fluoranthene	252	C20H12	000205-99-2	95
5	Perylene	252	C20H12	000198-55-0	93





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052225\
Data File : BF142515.D
Acq On : 22 May 2025 17:32
Operator : RC/JU
Sample : Q2074-07
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-40

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	5.5	ng	163668	1	6.898	590881	20.0
Benzophenone	10.645	4.1	ng	130805	3	9.934	642285	20.0
Anthracene, 2-m...	11.945	4.4	ng	157421	4	11.422	718276	20.0
1-Eicosene	13.904	2.2	ng	89231	5	14.063	826875	20.0
Benzo[e]pyrene	15.427	3.7	ng	84726	6	15.557	456477	20.0

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052225\
Data File : BF142506.D
Acq On : 22 May 2025 13:11
Operator : RC/JU
Sample : Q2074-08
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-18

Quant Time: May 22 13:53:08 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 20 16:26:47 2025
Response via : Initial Calibration

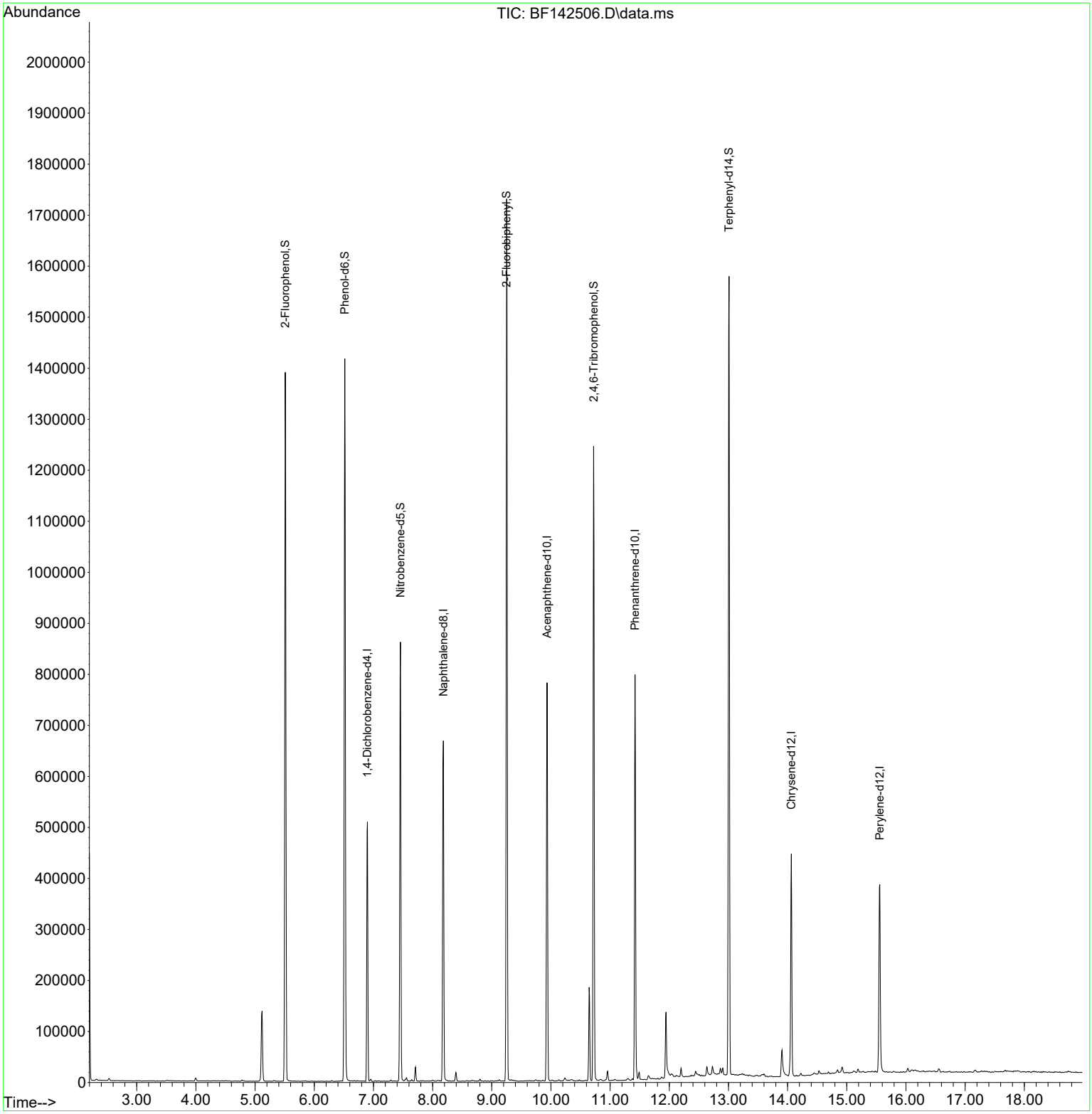
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.898	152	114998	20.000	ng	0.00
21) Naphthalene-d8	8.181	136	438934	20.000	ng	0.00
39) Acenaphthene-d10	9.934	164	234734	20.000	ng	-0.01
64) Phenanthrene-d10	11.422	188	406523	20.000	ng	-0.01
76) Chrysene-d12	14.063	240	207782	20.000	ng	-0.01
86) Perylene-d12	15.557	264	225144	20.000	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.510	112	531675	77.892	ng	0.00
7) Phenol-d6	6.516	99	667202	81.201	ng	-0.02
23) Nitrobenzene-d5	7.457	82	369353	45.885	ng	-0.02
42) 2,4,6-Tribromophenol	10.722	330	218064	83.702	ng	-0.02
45) 2-Fluorobiphenyl	9.251	172	785241	44.888	ng	-0.02
79) Terphenyl-d14	13.010	244	772849	50.829	ng	0.00
Target Compounds						Qvalue

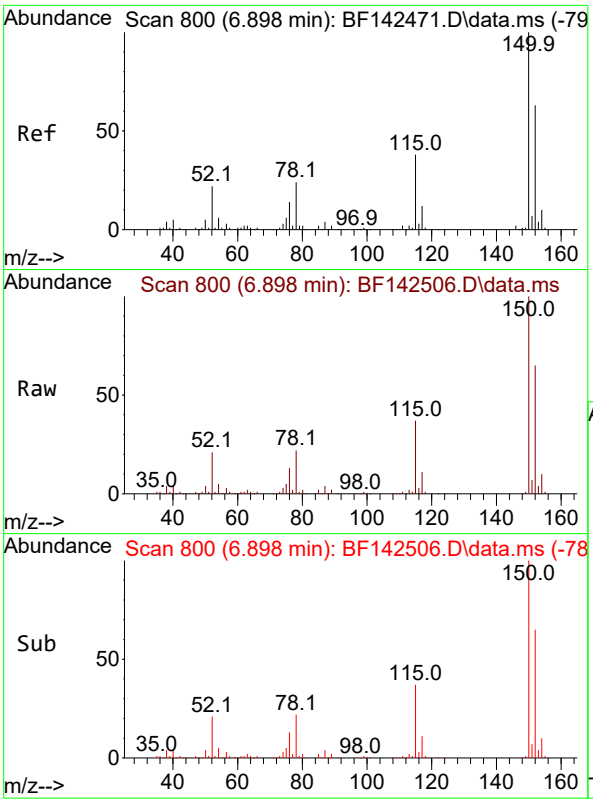
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052225\
Data File : BF142506.D
Acq On : 22 May 2025 13:11
Operator : RC/JU
Sample : Q2074-08
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-18

Quant Time: May 22 13:53:08 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 20 16:26:47 2025
Response via : Initial Calibration



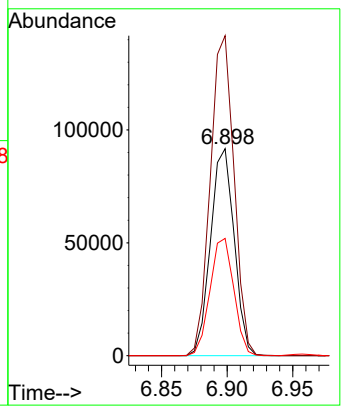


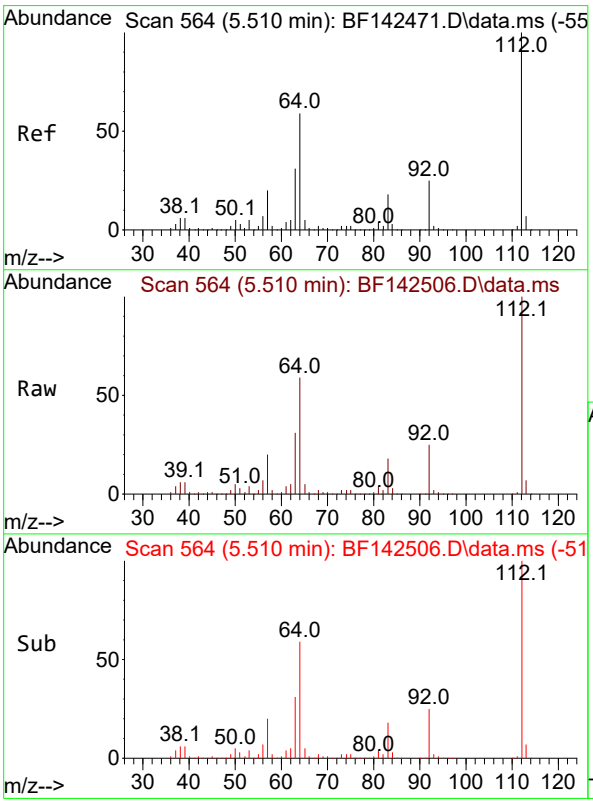
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.898 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF142506.D
Acq: 22 May 2025 13:11

Instrument :
BNA_F
ClientSampleId :
TP-18

Tgt Ion:152 Resp: 114998

Ion	Ratio	Lower	Upper
152	100		
150	154.5	128.2	192.4
115	56.6	48.3	72.5

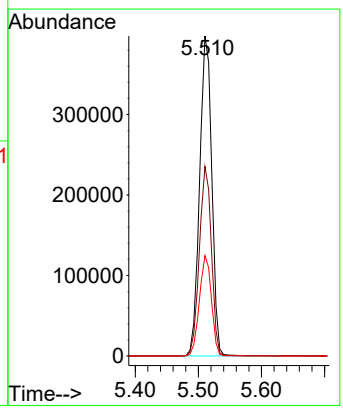


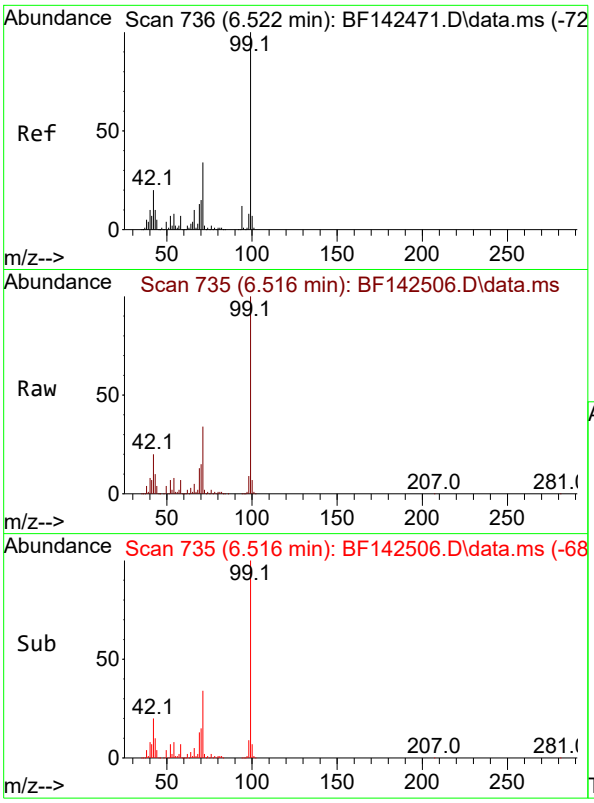


#5
2-Fluorophenol
Concen: 77.892 ng
RT: 5.510 min Scan# 564
Delta R.T. -0.006 min
Lab File: BF142506.D
Acq: 22 May 2025 13:11

Tgt Ion:112 Resp: 531675

Ion	Ratio	Lower	Upper
112	100		
64	59.2	47.5	71.3
63	31.3	24.9	37.3



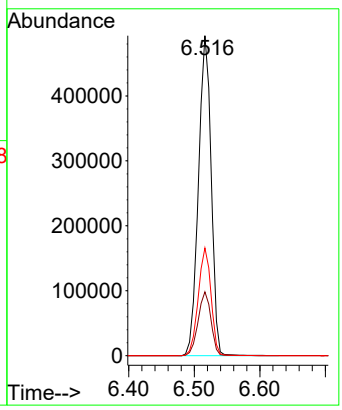


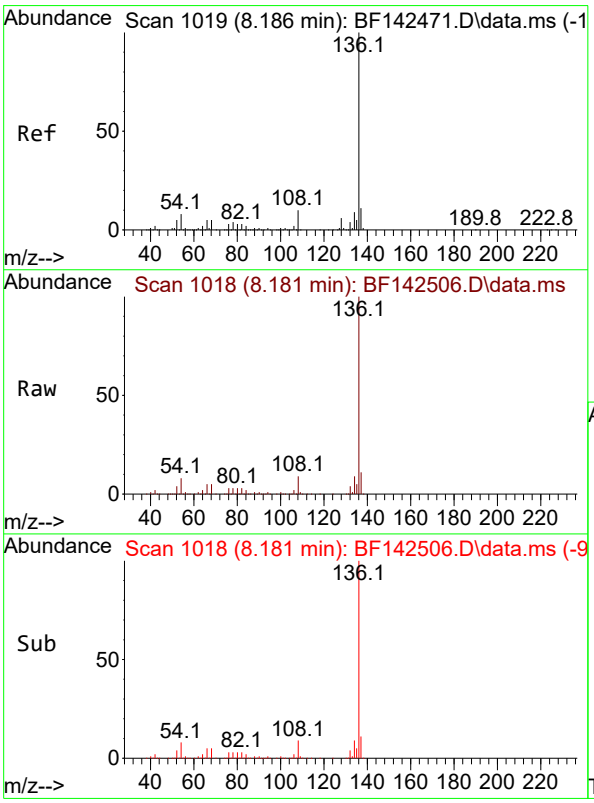
#7
Phenol-d6
Concen: 81.201 ng
RT: 6.516 min Scan# 7
Delta R.T. -0.017 min
Lab File: BF142506.D
Acq: 22 May 2025 13:11

Instrument :
BNA_F
ClientSampleId :
TP-18

Tgt Ion: 99 Resp: 667202

Ion	Ratio	Lower	Upper
99	100		
42	20.0	16.2	24.2
71	33.7	27.3	40.9

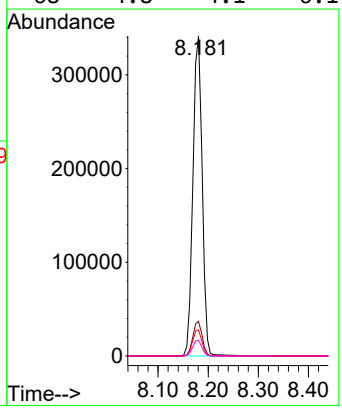


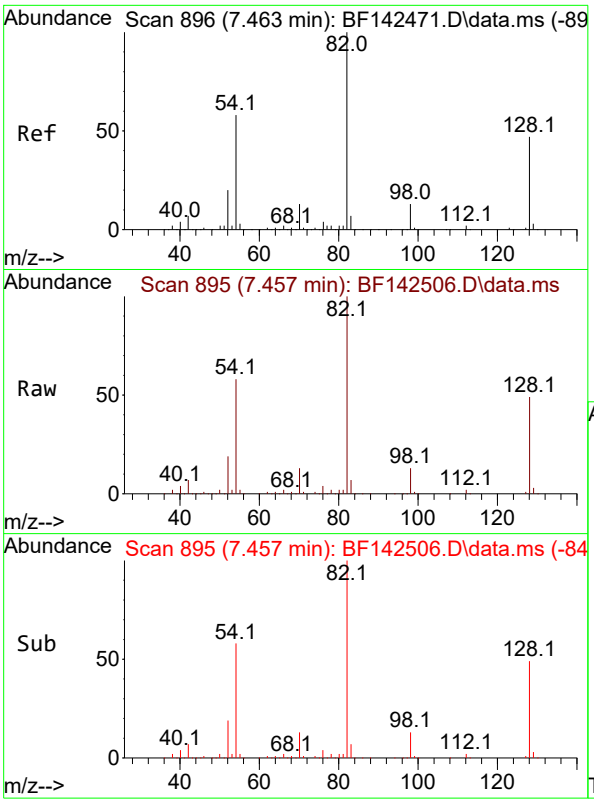


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.181 min Scan# 1018
Delta R.T. -0.006 min
Lab File: BF142506.D
Acq: 22 May 2025 13:11

Tgt Ion:136 Resp: 438934

Ion	Ratio	Lower	Upper
136	100		
137	10.9	8.6	13.0
54	8.1	6.6	10.0
68	4.8	4.1	6.1



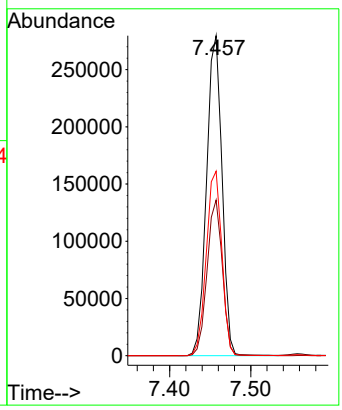


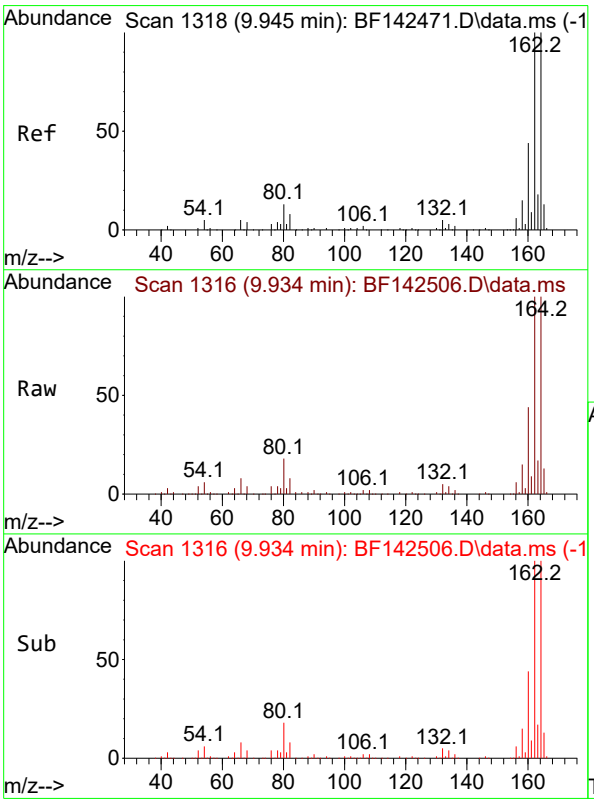
#23
Nitrobenzene-d5
Concen: 45.885 ng
RT: 7.457 min Scan# 8
Delta R.T. -0.017 min
Lab File: BF142506.D
Acq: 22 May 2025 13:11

Instrument :
BNA_F
ClientSampleId :
TP-18

Tgt Ion: 82 Resp: 369353

Ion	Ratio	Lower	Upper
82	100		
128	48.7	37.4	56.2
54	57.7	46.6	70.0

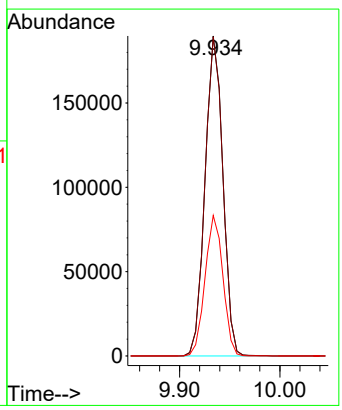


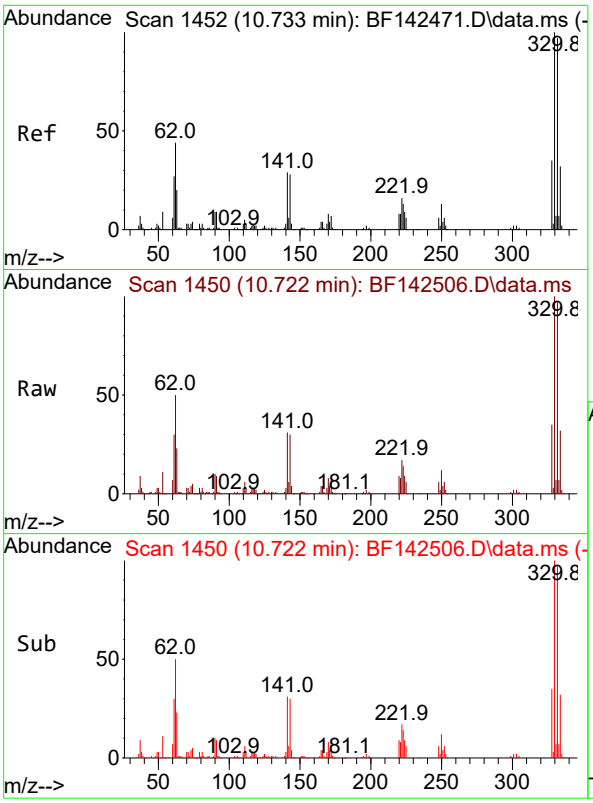


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.934 min Scan# 1316
Delta R.T. -0.012 min
Lab File: BF142506.D
Acq: 22 May 2025 13:11

Tgt Ion:164 Resp: 234734

Ion	Ratio	Lower	Upper
164	100		
162	99.7	80.2	120.4
160	43.9	35.6	53.4



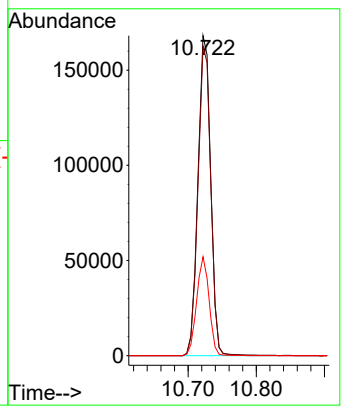


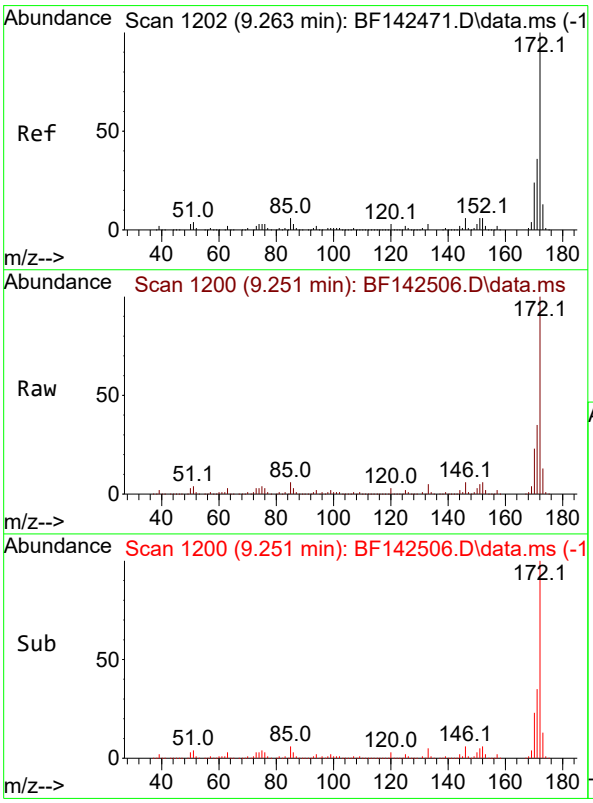
#42
2,4,6-Tribromophenol
Concen: 83.702 ng
RT: 10.722 min Scan# 14
Delta R.T. -0.017 min
Lab File: BF142506.D
Acq: 22 May 2025 13:11

Instrument :
BNA_F
ClientSampleId :
TP-18

Tgt Ion:330 Resp: 218064

Ion	Ratio	Lower	Upper
330	100		
332	96.7	77.6	116.4
141	30.1	24.6	36.8

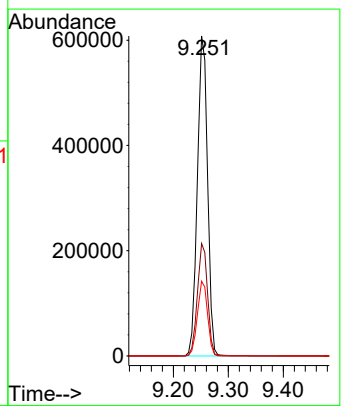


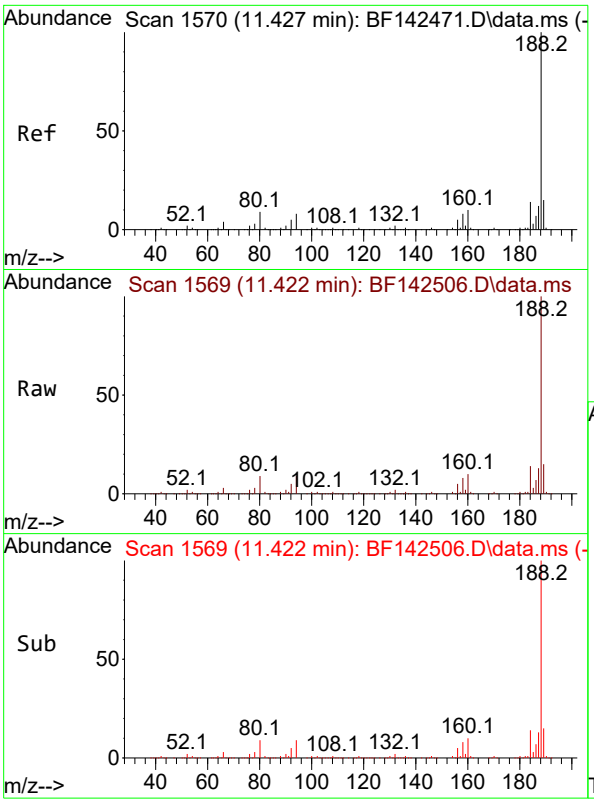


#45
2-Fluorobiphenyl
Concen: 44.888 ng
RT: 9.251 min Scan# 1200
Delta R.T. -0.017 min
Lab File: BF142506.D
Acq: 22 May 2025 13:11

Tgt Ion:172 Resp: 785241

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



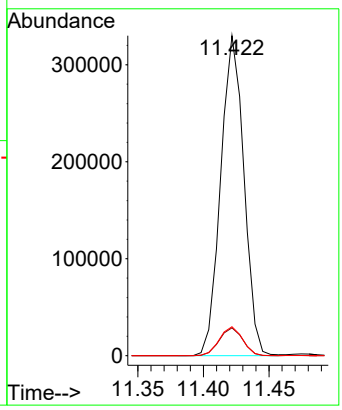


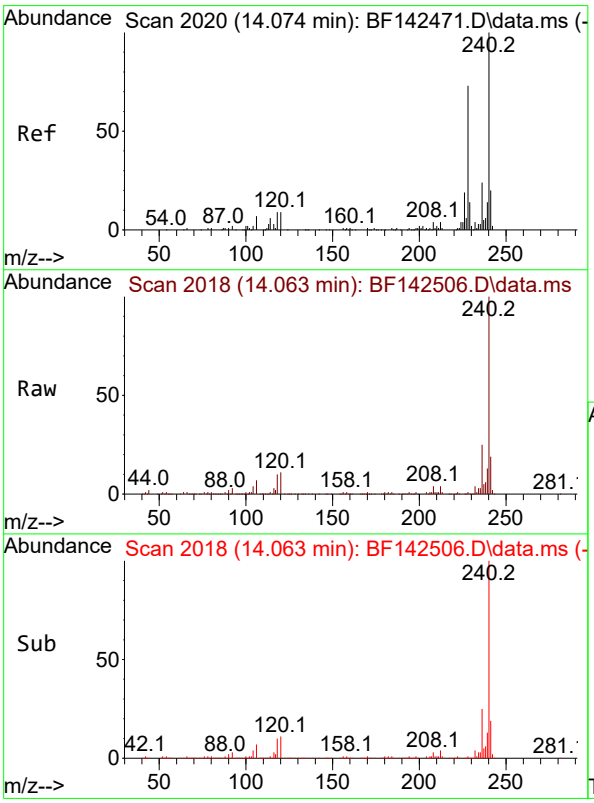
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.422 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF142506.D
Acq: 22 May 2025 13:11

Instrument :
BNA_F
ClientSampleId :
TP-18

Tgt Ion:188 Resp: 406523

Ion	Ratio	Lower	Upper
188	100		
94	8.7	6.6	10.0
80	9.0	7.4	11.0

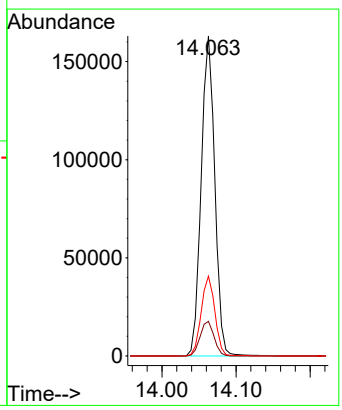


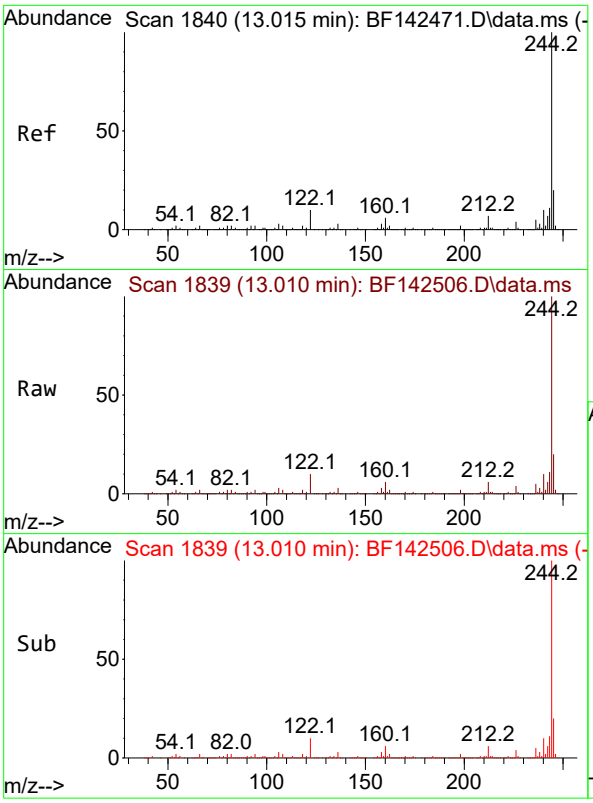


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.063 min Scan# 2018
Delta R.T. -0.012 min
Lab File: BF142506.D
Acq: 22 May 2025 13:11

Tgt Ion:240 Resp: 207782

Ion	Ratio	Lower	Upper
240	100		
120	10.8	7.5	11.3
236	24.9	19.6	29.4



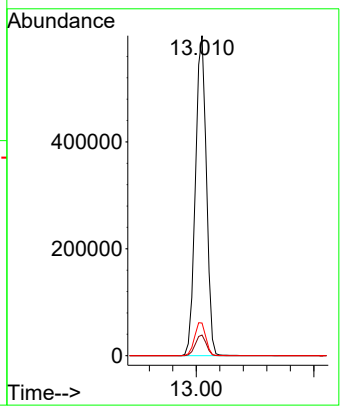


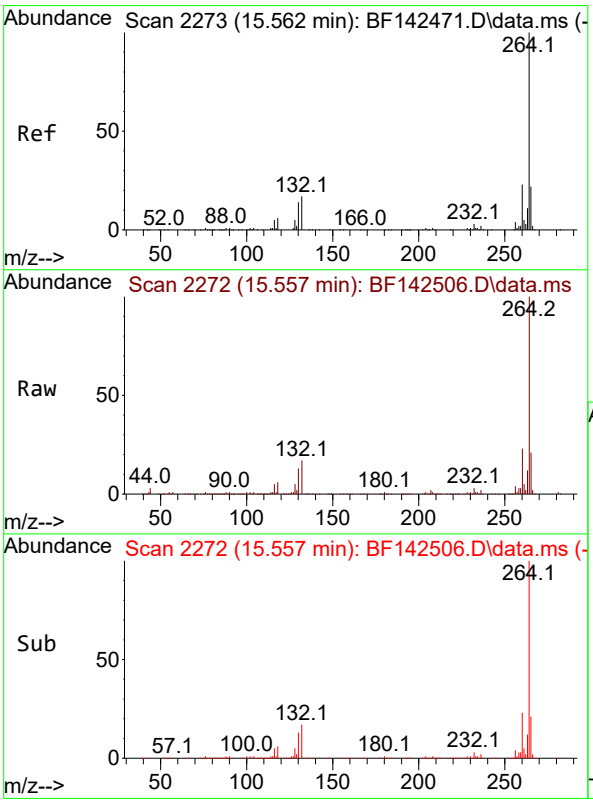
#79
Terphenyl-d14
Concen: 50.829 ng
RT: 13.010 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF142506.D
Acq: 22 May 2025 13:11

Instrument :
BNA_F
ClientSampleId :
TP-18

Tgt Ion:244 Resp: 772849

Ion	Ratio	Lower	Upper
244	100		
212	6.5	5.3	7.9
122	10.2	8.2	12.2

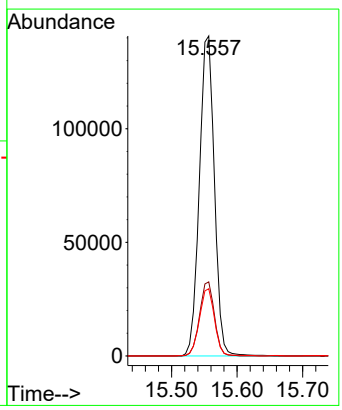




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.557 min Scan# 2272
Delta R.T. -0.012 min
Lab File: BF142506.D
Acq: 22 May 2025 13:11

Tgt Ion:264 Resp: 225144

Ion	Ratio	Lower	Upper
264	100		
260	23.2	18.6	28.0
265	21.0	17.7	26.5



Sample Results: **BF142506.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052225\
Data File : BF142506.D
Acq On : 22 May 2025 13:11
Operator : RC/JU
Sample : Q2074-08
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-18

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: BF142506.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	486	497	505	rBV	137232	207101	9.41%	1.270%
2	5.510	558	564	569	rBV	1389343	1835699	83.45%	11.254%
3	6.516	728	735	749	rBV	1416255	1951034	88.69%	11.962%
4	6.898	794	800	805	rBV	508449	645890	29.36%	3.960%
5	7.457	888	895	900	rBV	860646	1133311	51.52%	6.948%
6	7.710	933	938	943	rBB	27060	33193	1.51%	0.204%
7	8.181	1012	1018	1034	rBV	667002	862162	39.19%	5.286%
8	8.392	1049	1054	1061	rVB2	17080	23042	1.05%	0.141%
9	9.251	1194	1200	1205	rBV	1729083	2199760	100.00%	13.486%
10	9.934	1311	1316	1321	rBV	780223	964739	43.86%	5.915%
11	10.645	1432	1437	1444	rBV	183266	227090	10.32%	1.392%
12	10.722	1444	1450	1455	rBV	1243747	1578941	71.78%	9.680%
13	10.957	1479	1490	1495	rBV2	18470	26902	1.22%	0.165%
14	11.422	1564	1569	1576	rBV	793753	996003	45.28%	6.106%
15	11.945	1651	1658	1670	rBV2	129838	213476	9.70%	1.309%
16	12.198	1697	1701	1710	rVB4	16989	23521	1.07%	0.144%
17	12.633	1771	1775	1784	rBV	17344	30592	1.39%	0.188%
18	12.727	1787	1791	1800	rVV3	15545	26618	1.21%	0.163%
19	13.010	1833	1839	1844	rBV	1564594	2032369	92.39%	12.460%
20	13.904	1986	1991	2002	rBV	51974	104377	4.74%	0.640%
21	14.063	2009	2018	2028	rVB	435606	593491	26.98%	3.639%
22	15.557	2265	2272	2285	rBV	367513	601587	27.35%	3.688%

Sum of corrected areas: 16310898

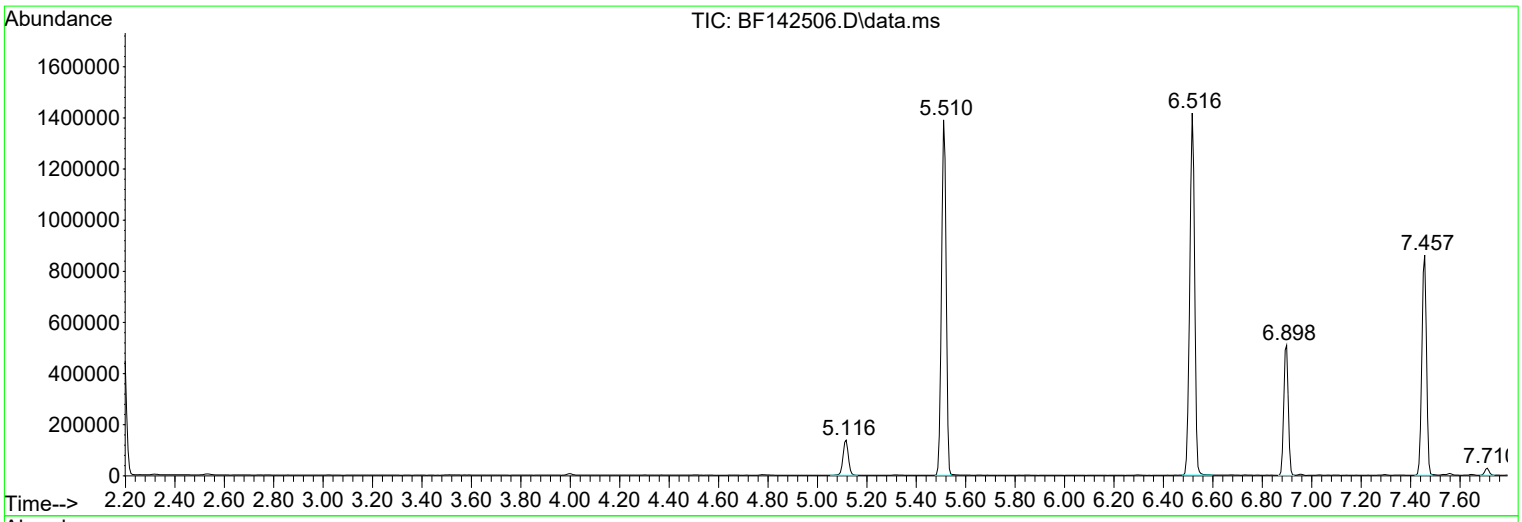
Sample Results: **BF142506.D**

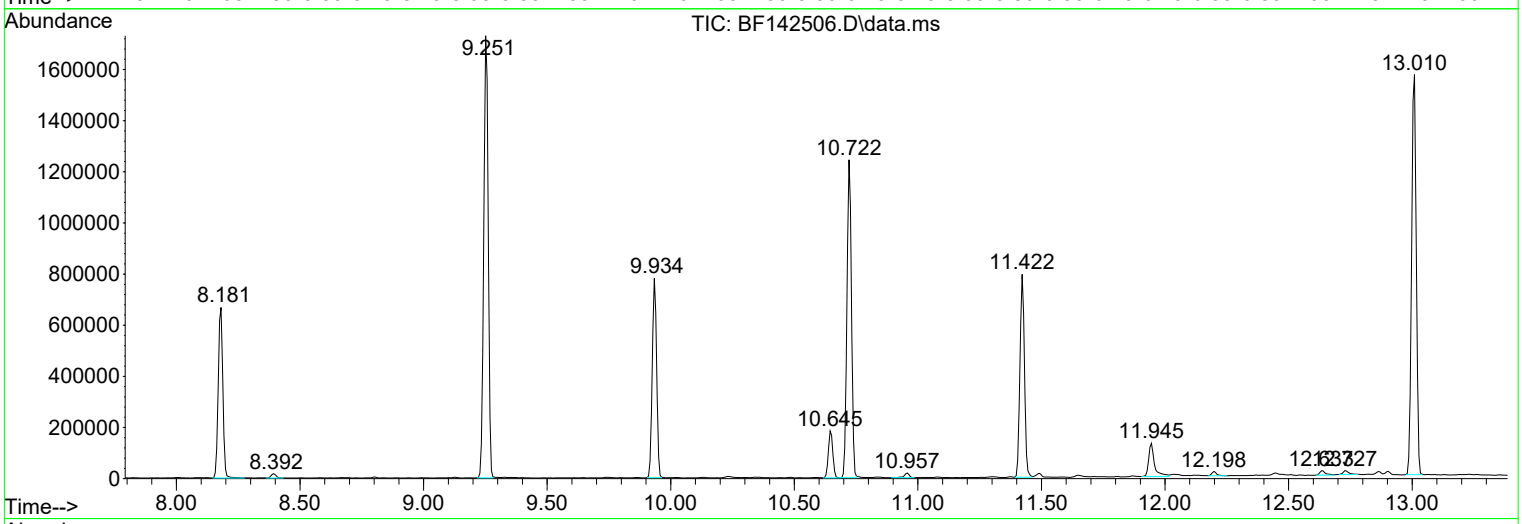
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052225\
Data File : BF142506.D
Acq On : 22 May 2025 13:11
Operator : RC/JU
Sample : Q2074-08
Misc :
ALS Vial : 6 Sample Multiplier: 1

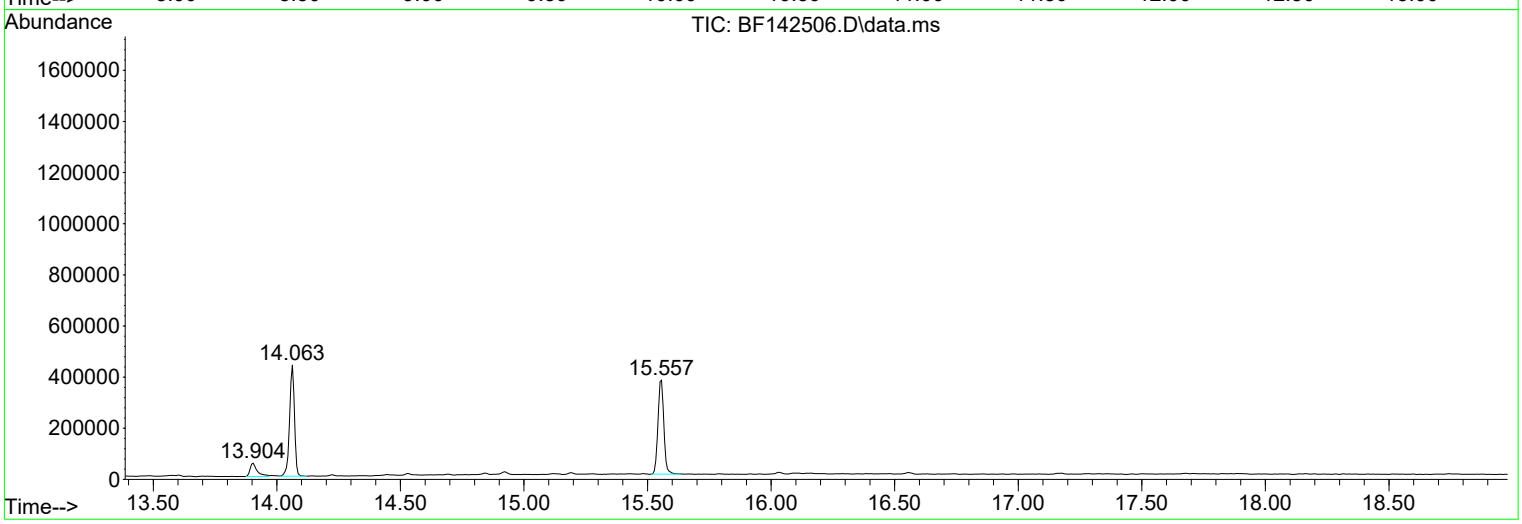
Instrument :
BNA_F
ClientSampleId :
TP-18

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\BF052225\
Data File : BF142506.D
Acq On : 22 May 2025 13:11
Operator : RC/JU
Sample : Q2074-08
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-18

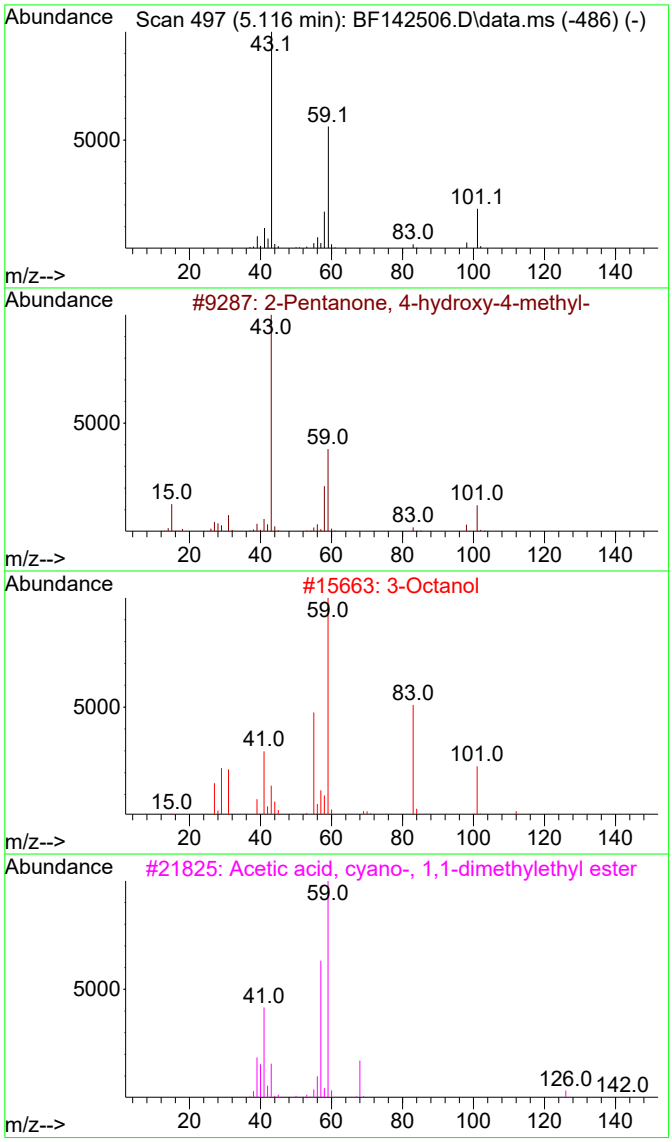
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

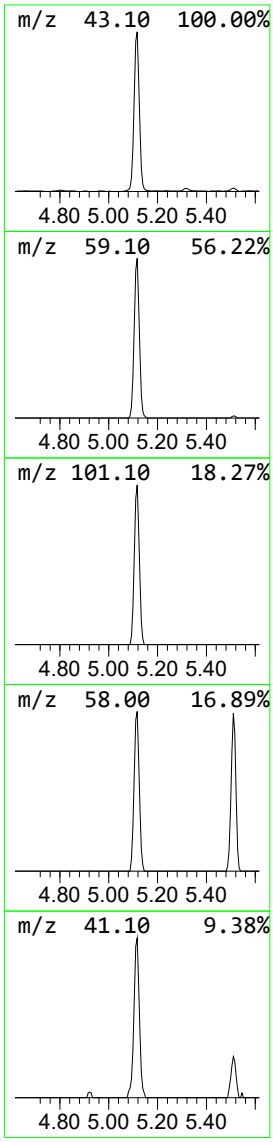
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.116	6.41 ng	207101	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	3-Octanol	130	C8H18O	000589-98-0	36
3	Acetic acid, cyano-, 1,1-dimethy...	141	C7H11NO2	001116-98-9	25
4	1-Propen-2-ol, acetate	100	C5H8O2	000108-22-5	12
5	Butyl aldoxime, 3-methyl-, syn-	101	C5H11NO	005780-40-5	9





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052225\
Data File : BF142506.D
Acq On : 22 May 2025 13:11
Operator : RC/JU
Sample : Q2074-08
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-18

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

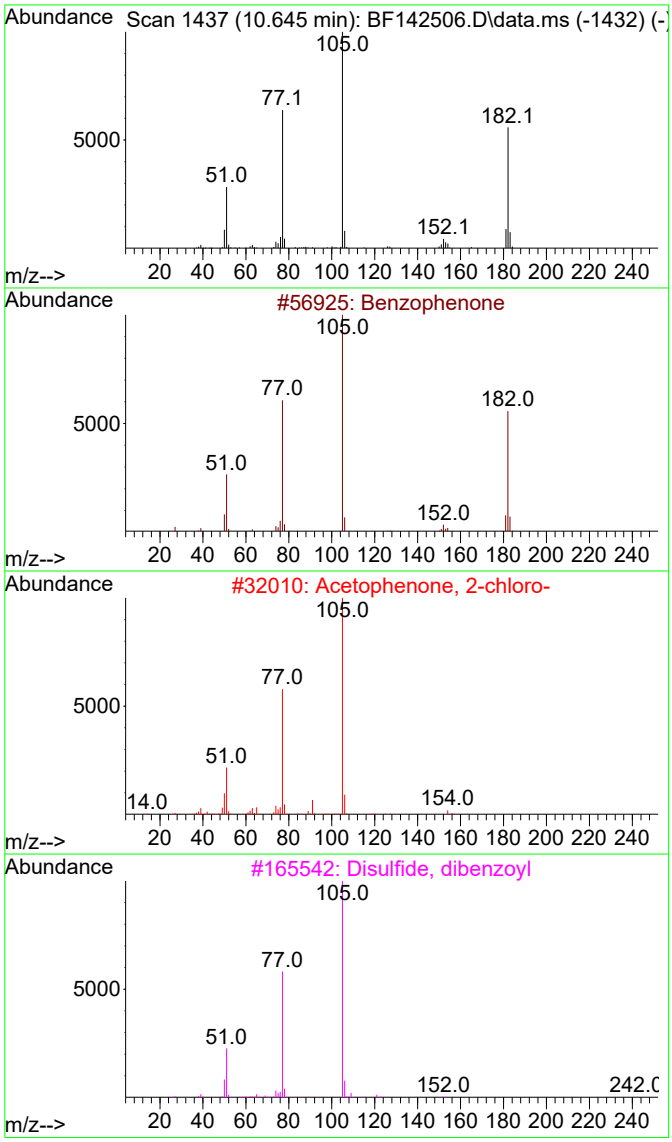
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

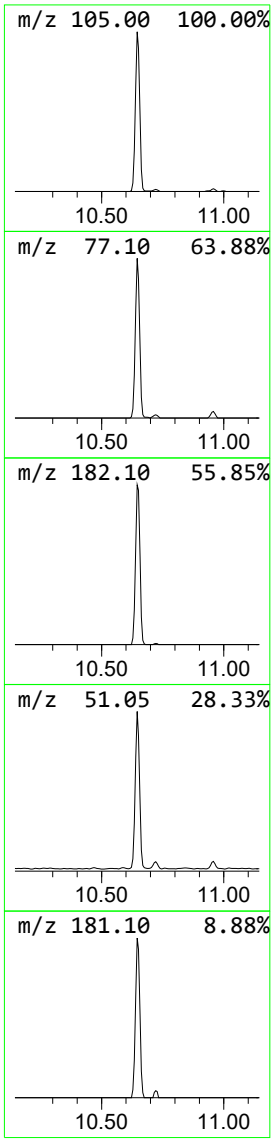
****

Peak Number 2 Benzophenone Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.645	4.71 ng	227090	Acenaphthene-d10	9.934

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	Disulfide, dibenzoyl	274	C14H10O2S2	000644-32-6	49
4	Pentafluoroethyl phenyl ketone	224	C9H5F5O	000394-52-5	47
5	N-(1-Cyanovinyl)benzamide	172	C10H8N2O	1000186-19-1	47





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052225\
Data File : BF142506.D
Acq On : 22 May 2025 13:11
Operator : RC/JU
Sample : Q2074-08
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-18

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

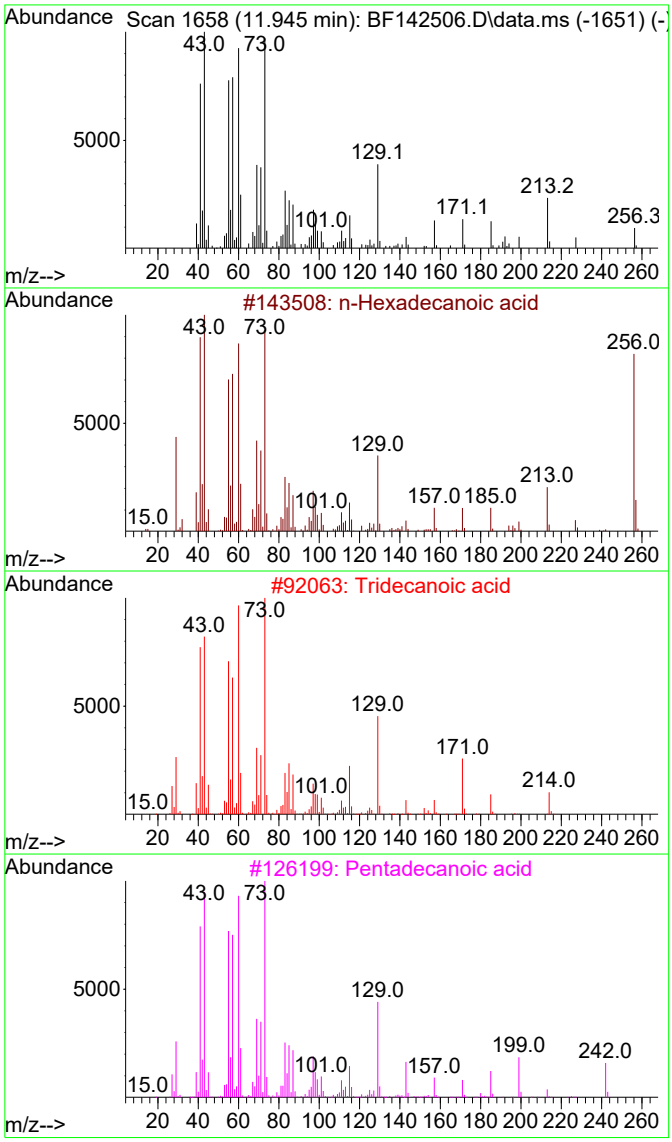
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

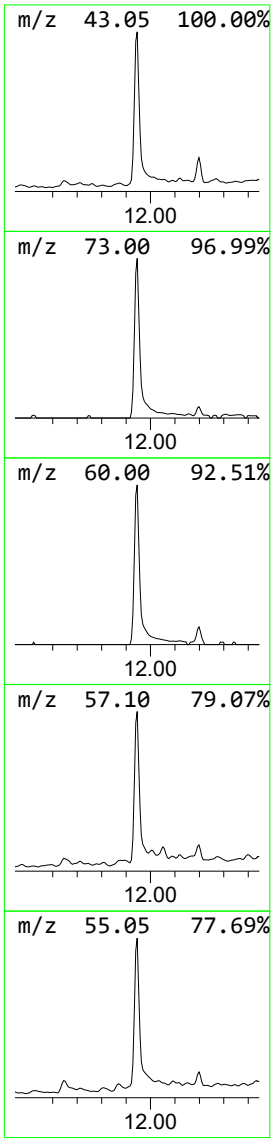
****

Peak Number 3 n-Hexadecanoic acid Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.945	4.29 ng	213476	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	90
4	Tetradecanoic acid	228	C14H28O2	000544-63-8	72
5	n-Decanoic acid	172	C10H20O2	000334-48-5	58





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052225\
Data File : BF142506.D
Acq On : 22 May 2025 13:11
Operator : RC/JU
Sample : Q2074-08
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-18

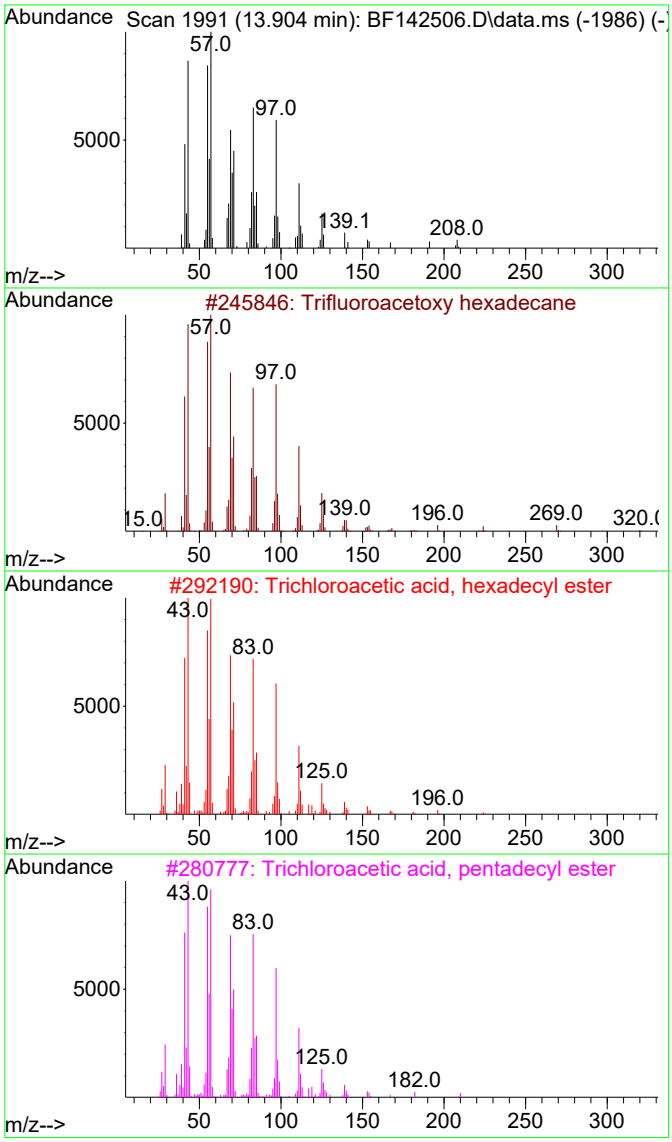
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

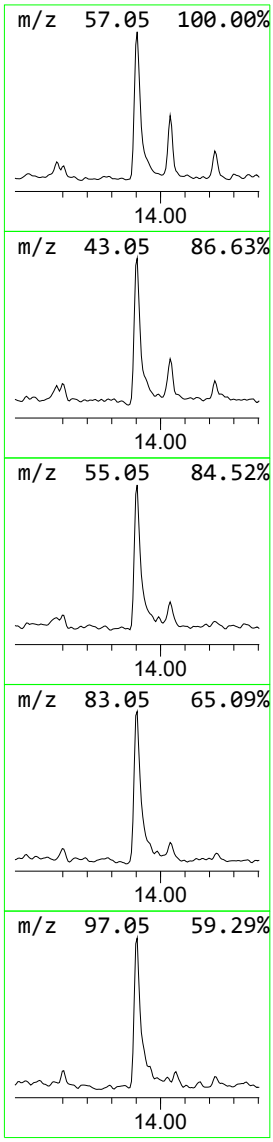
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 4 Trifluoroacetoxy hexadecane Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.904	3.52 ng	104377	Chrysene-d12	14.063

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Trifluoroacetoxy hexadecane	338	C18H33F3O2	006222-03-3	95
2	Trichloroacetic acid, hexadecyl ...	386	C18H33Cl3O2	074339-54-1	95
3	Trichloroacetic acid, pentadecyl...	372	C17H31Cl3O2	074339-53-0	94
4	1-Docosene	308	C22H44	001599-67-3	94
5	17-Pentatriacontene	491	C35H70	006971-40-0	91





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052225\
Data File : BF142506.D
Acq On : 22 May 2025 13:11
Operator : RC/JU
Sample : Q2074-08
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-18

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	6.4	ng	207101	1	6.898	645890	20.0
Benzophenone	10.645	4.7	ng	227090	3	9.934	964739	20.0
n-Hexadecanoic ...	11.945	4.3	ng	213476	4	11.422	996003	20.0
Trifluoroacetox...	13.904	3.5	ng	104377	5	14.063	593491	20.0

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052125\
Data File : BF142479.D
Acq On : 21 May 2025 11:09
Operator : RC/JU
Sample : PB168083BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB168083BL

Quant Time: May 21 12:03:53 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

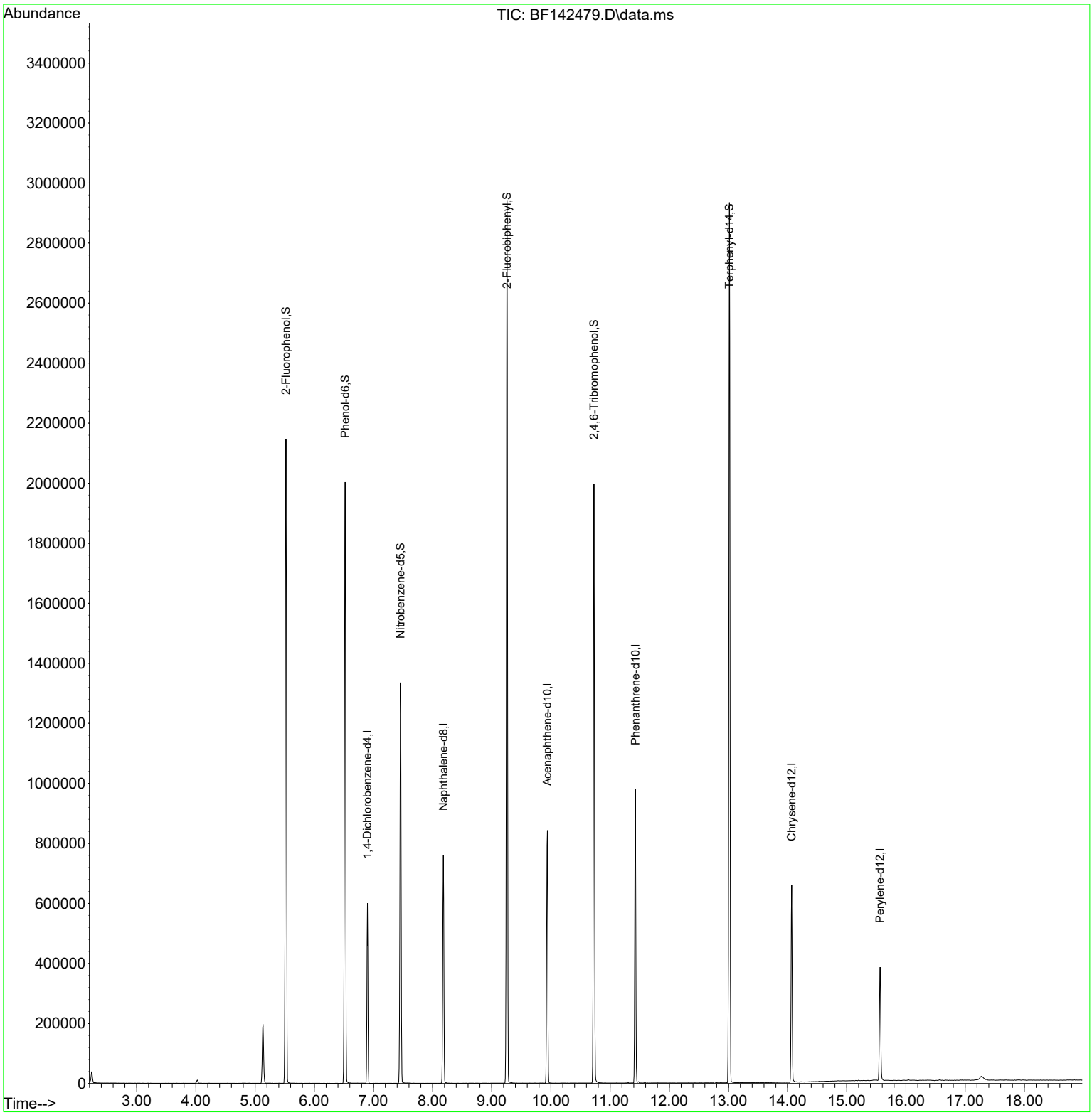
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.898	152	127003	20.000	ng	0.00
21) Naphthalene-d8	8.181	136	492428	20.000	ng	0.00
39) Acenaphthene-d10	9.939	164	264579	20.000	ng	0.00
64) Phenanthrene-d10	11.428	188	511963	20.000	ng	0.00
76) Chrysene-d12	14.069	240	324877	20.000	ng	0.00
86) Perylene-d12	15.563	264	234653	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.522	112	856643	113.638	ng	0.00
7) Phenol-d6	6.522	99	1002883	110.518	ng	-0.01
23) Nitrobenzene-d5	7.457	82	608593	67.392	ng	-0.02
42) 2,4,6-Tribromophenol	10.728	330	374916	127.675	ng	-0.01
45) 2-Fluorobiphenyl	9.257	172	1368581	69.410	ng	-0.01
79) Terphenyl-d14	13.016	244	1483984	62.421	ng	0.00
Target Compounds						Qvalue

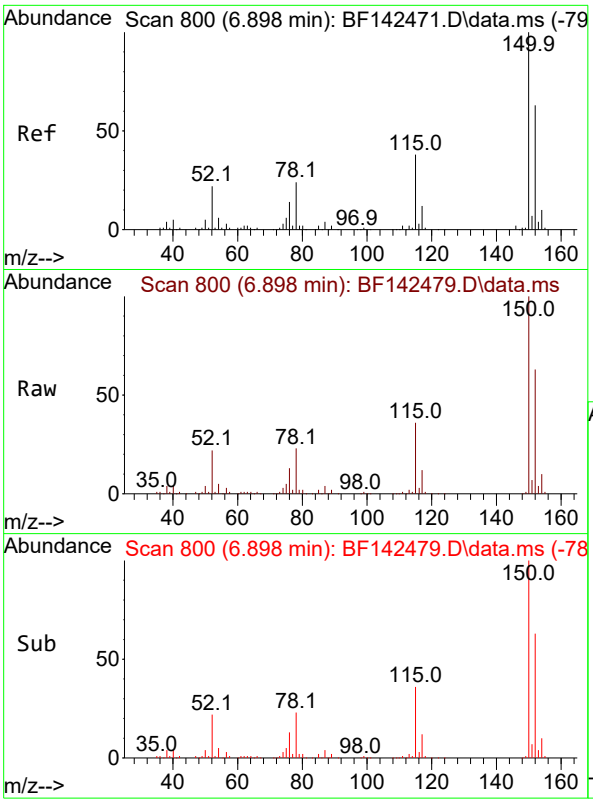
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052125\
Data File : BF142479.D
Acq On : 21 May 2025 11:09
Operator : RC/JU
Sample : PB168083BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB168083BL

Quant Time: May 21 12:03:53 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



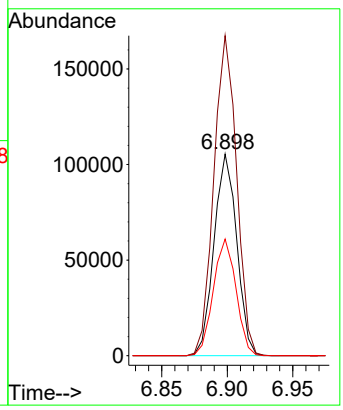


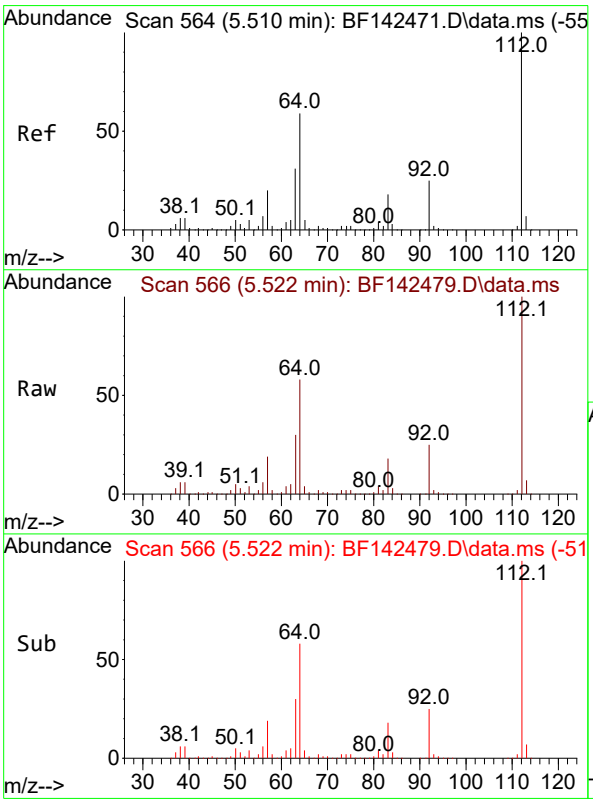
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.898 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF142479.D
Acq: 21 May 2025 11:09

Instrument :
BNA_F
ClientSampleId :
PB168083BL

Tgt Ion:152 Resp: 127003

Ion	Ratio	Lower	Upper
152	100		
150	158.7	128.2	192.4
115	57.8	48.3	72.5

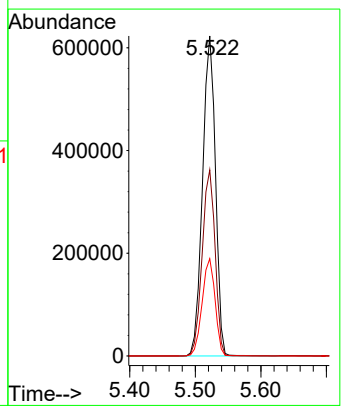


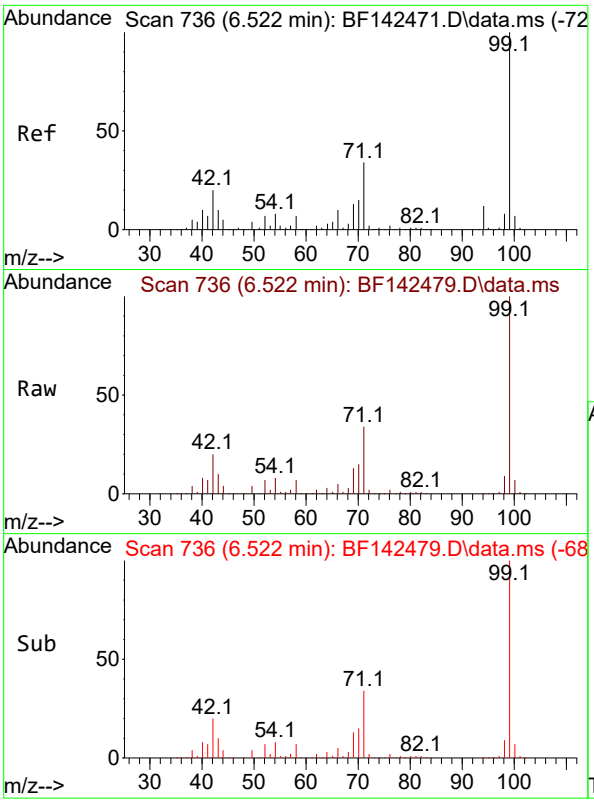


#5
2-Fluorophenol
Concen: 113.638 ng
RT: 5.522 min Scan# 566
Delta R.T. 0.006 min
Lab File: BF142479.D
Acq: 21 May 2025 11:09

Tgt Ion:112 Resp: 856643

Ion	Ratio	Lower	Upper
112	100		
64	58.1	47.5	71.3
63	30.4	24.9	37.3



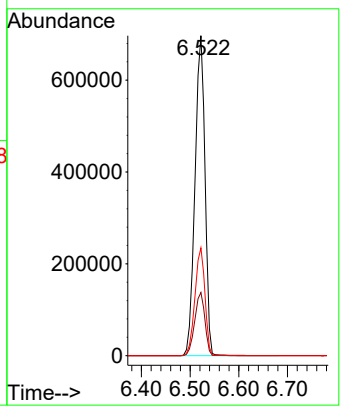


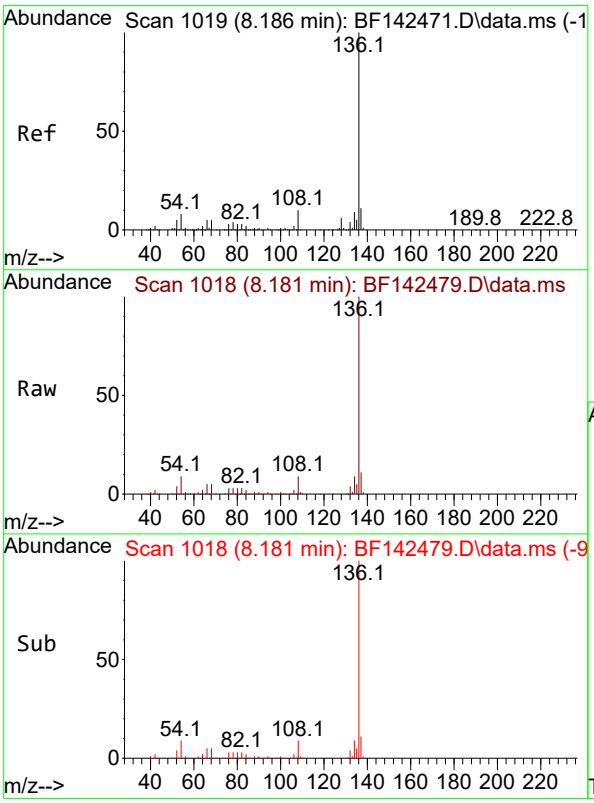
#7
Phenol-d6
Concen: 110.518 ng
RT: 6.522 min Scan# 7
Delta R.T. -0.012 min
Lab File: BF142479.D
Acq: 21 May 2025 11:09

Instrument :
BNA_F
ClientSampleId :
PB168083BL

Tgt Ion: 99 Resp: 1002883

Ion	Ratio	Lower	Upper
99	100		
42	19.8	16.2	24.2
71	33.7	27.3	40.9

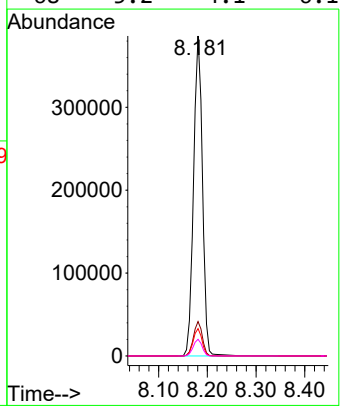


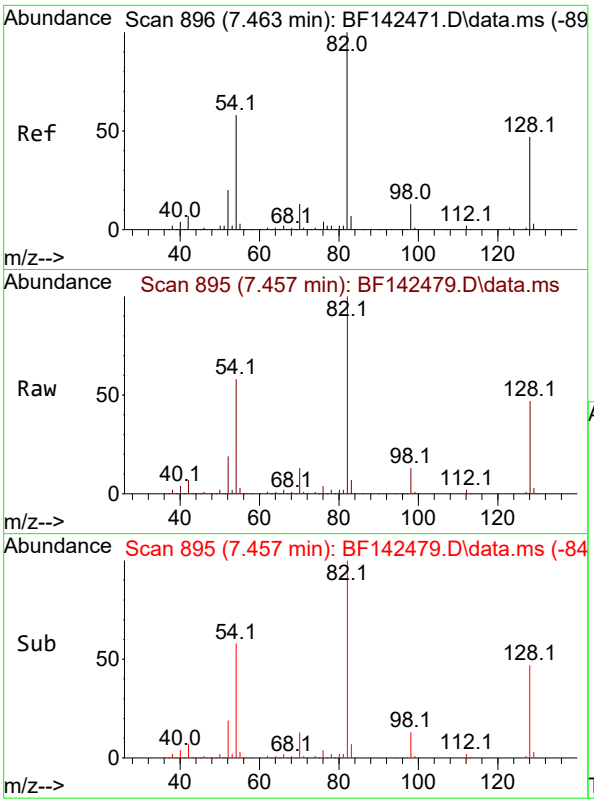


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.181 min Scan# 1018
Delta R.T. -0.006 min
Lab File: BF142479.D
Acq: 21 May 2025 11:09

Tgt Ion:136 Resp: 492428

Ion	Ratio	Lower	Upper
136	100		
137	10.7	8.6	13.0
54	8.5	6.6	10.0
68	5.2	4.1	6.1



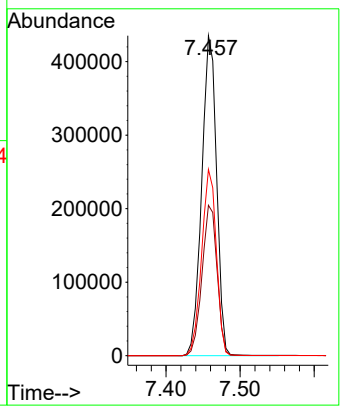


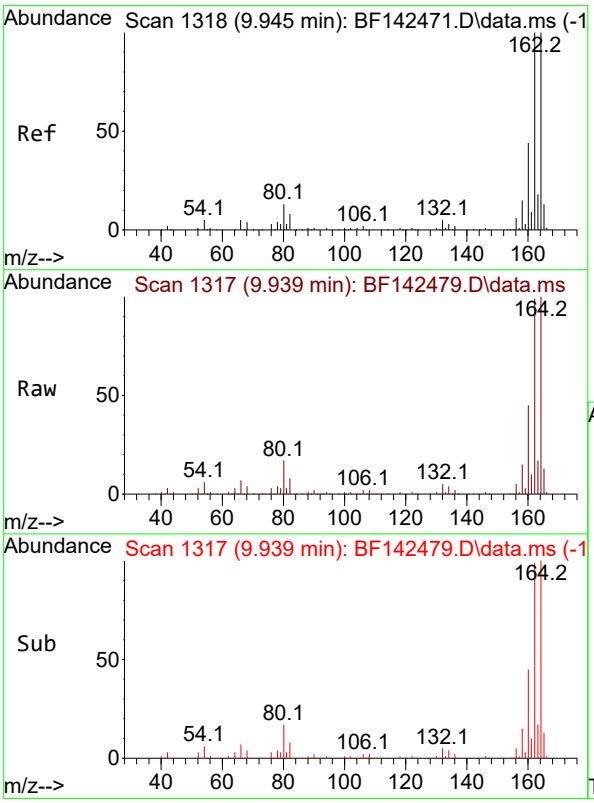
#23
Nitrobenzene-d5
Concen: 67.392 ng
RT: 7.457 min Scan# 8
Delta R.T. -0.017 min
Lab File: BF142479.D
Acq: 21 May 2025 11:09

Instrument :
BNA_F
ClientSampleId :
PB168083BL

Tgt Ion: 82 Resp: 608593

Ion	Ratio	Lower	Upper
82	100		
128	47.0	37.4	56.2
54	58.2	46.6	70.0

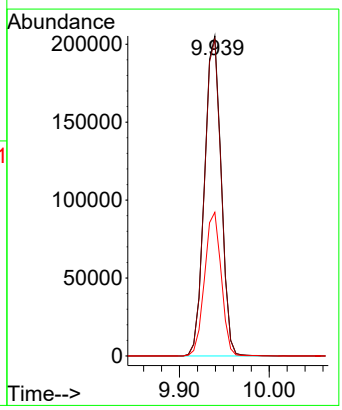


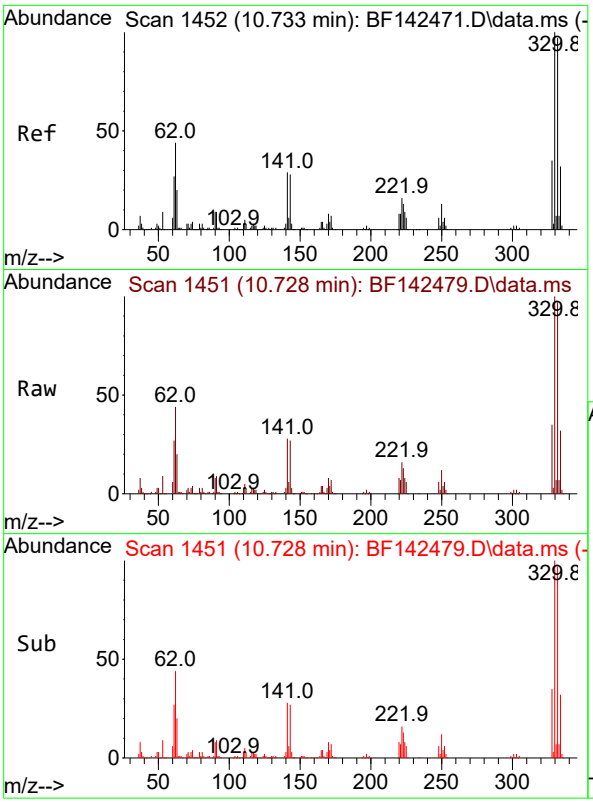


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.939 min Scan# 1317
Delta R.T. -0.006 min
Lab File: BF142479.D
Acq: 21 May 2025 11:09

Tgt Ion:164 Resp: 264579

Ion	Ratio	Lower	Upper
164	100		
162	98.9	80.2	120.4
160	44.9	35.6	53.4



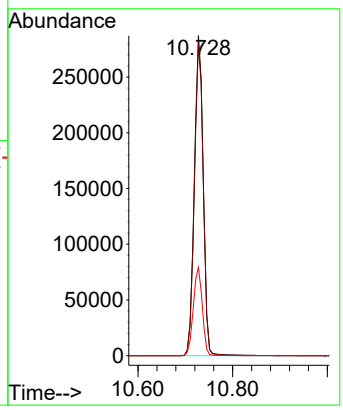


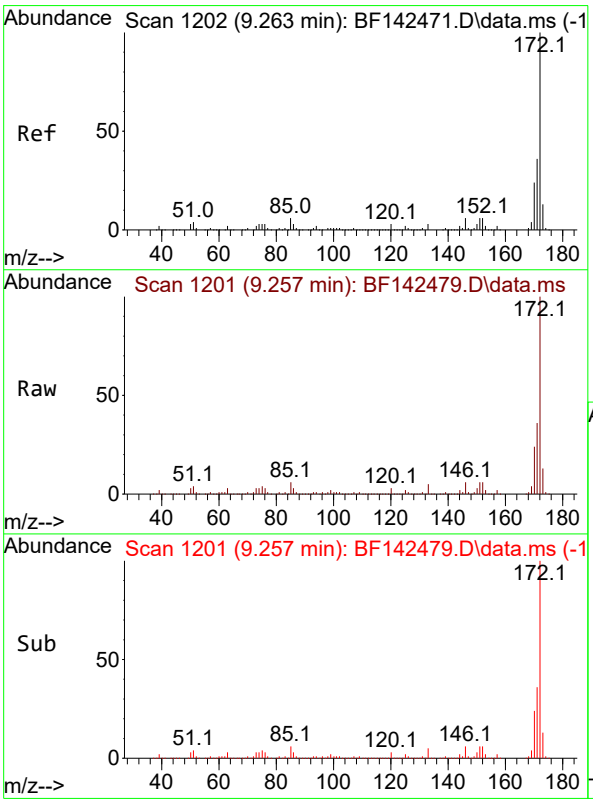
#42
2,4,6-Tribromophenol
Concen: 127.675 ng
RT: 10.728 min Scan# 14
Delta R.T. -0.012 min
Lab File: BF142479.D
Acq: 21 May 2025 11:09

Instrument :
BNA_F
ClientSampleId :
PB168083BL

Tgt Ion:330 Resp: 374916

Ion	Ratio	Lower	Upper
330	100		
332	97.0	77.6	116.4
141	27.9	24.6	36.8

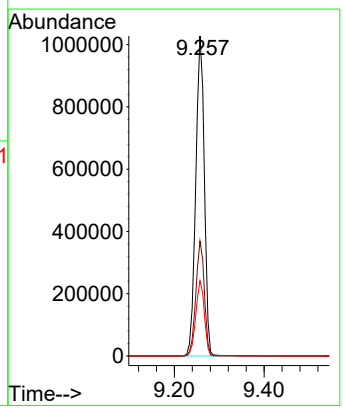


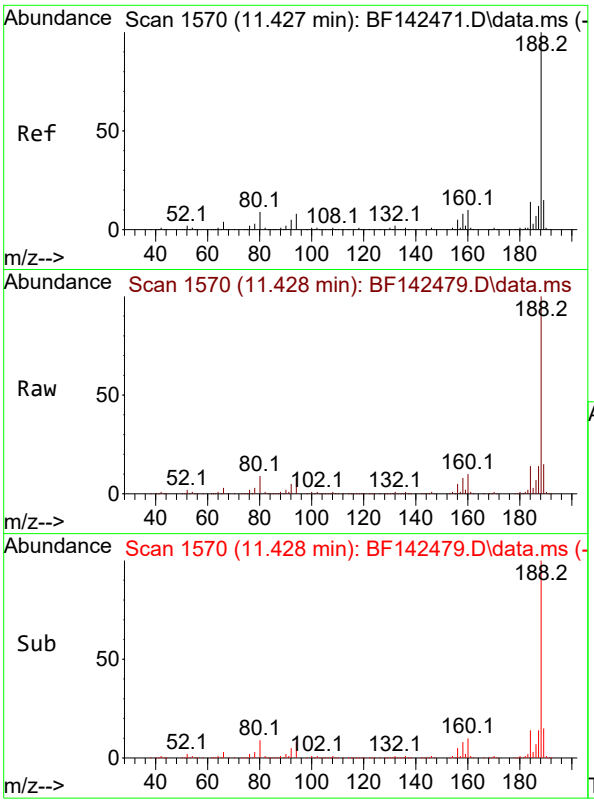


#45
2-Fluorobiphenyl
Concen: 69.410 ng
RT: 9.257 min Scan# 1201
Delta R.T. -0.012 min
Lab File: BF142479.D
Acq: 21 May 2025 11:09

Tgt Ion:172 Resp: 1368581

Ion	Ratio	Lower	Upper
172	100		
171	35.9	28.6	42.8
170	23.5	18.9	28.3



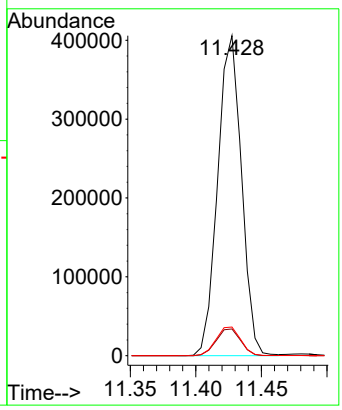


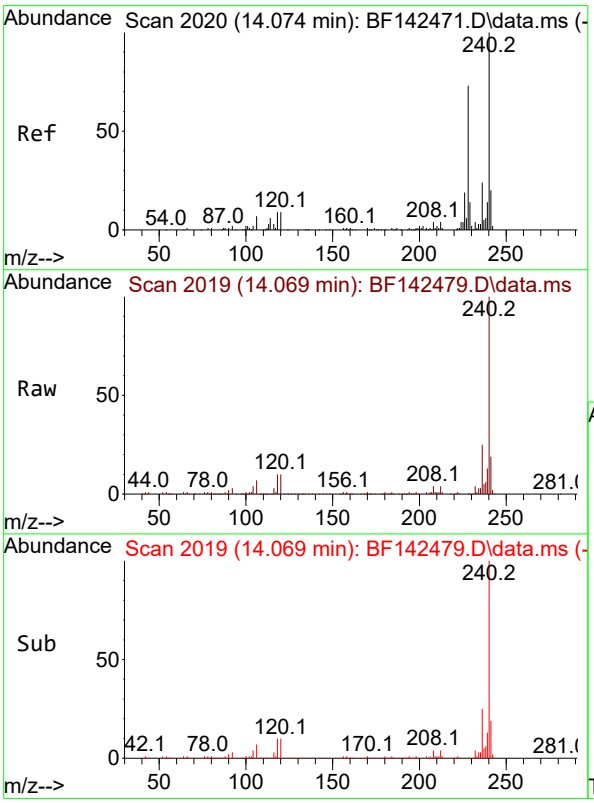
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.428 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF142479.D
Acq: 21 May 2025 11:09

Instrument :
BNA_F
ClientSampleId :
PB168083BL

Tgt Ion:188 Resp: 511963

Ion	Ratio	Lower	Upper
188	100		
94	8.4	6.6	10.0
80	8.9	7.4	11.0

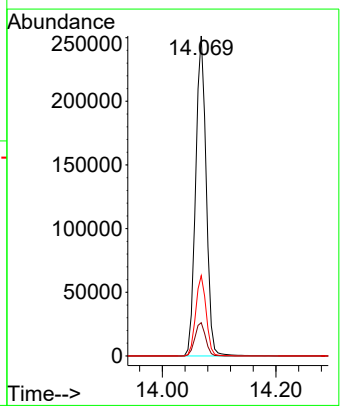


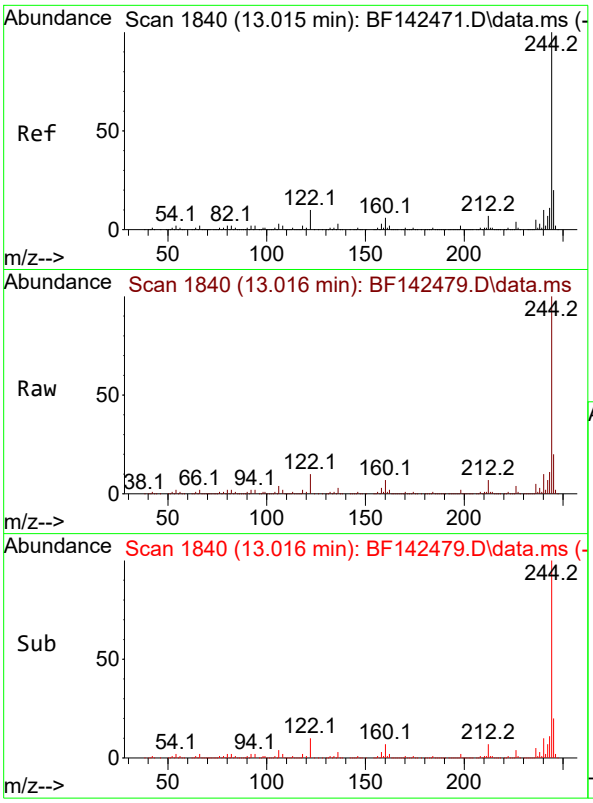


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.069 min Scan# 2019
Delta R.T. -0.006 min
Lab File: BF142479.D
Acq: 21 May 2025 11:09

Tgt Ion:240 Resp: 324877

Ion	Ratio	Lower	Upper
240	100		
120	10.4	7.5	11.3
236	25.1	19.6	29.4



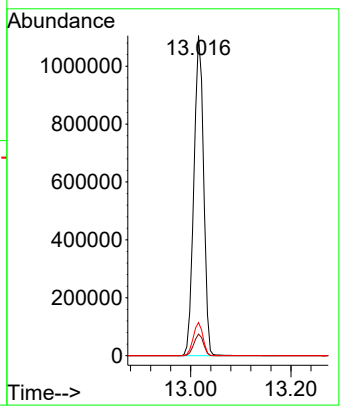


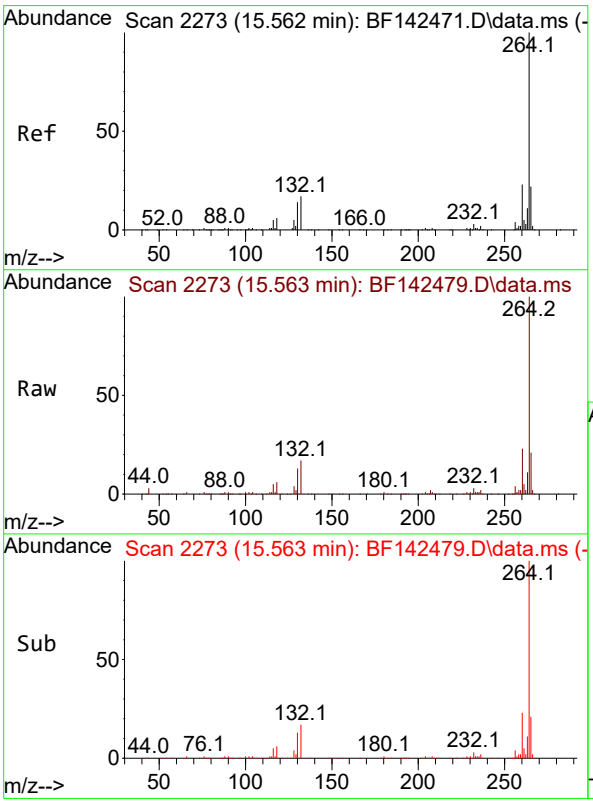
#79
Terphenyl-d14
Concen: 62.421 ng
RT: 13.016 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF142479.D
Acq: 21 May 2025 11:09

Instrument :
BNA_F
ClientSampleId :
PB168083BL

Tgt Ion:244 Resp: 1483984

Ion	Ratio	Lower	Upper
244	100		
212	6.7	5.3	7.9
122	10.3	8.2	12.2

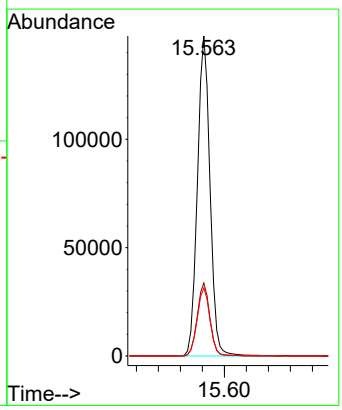




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.563 min Scan# 2273
Delta R.T. -0.006 min
Lab File: BF142479.D
Acq: 21 May 2025 11:09

Tgt Ion:264 Resp: 234653

Ion	Ratio	Lower	Upper
264	100		
260	22.8	18.6	28.0
265	21.2	17.7	26.5



Sample Results: **BF142479.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052125\
Data File : BF142479.D
Acq On : 21 May 2025 11:09
Operator : RC/JU
Sample : PB168083BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB168083BL

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: BF142479.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.240	3	8	14	rVB	34723	57108	1.46%	0.239%
2	5.134	493	500	508	rBV	191407	311221	7.97%	1.304%
3	5.522	559	566	571	rBV	2146959	2947599	75.45%	12.347%
4	6.522	729	736	741	rBV	2003240	2877982	73.66%	12.055%
5	6.898	795	800	805	rBV	599855	720820	18.45%	3.019%
6	7.457	889	895	901	rBV	1335137	1862698	47.68%	7.802%
7	8.181	1012	1018	1023	rBV	760302	956834	24.49%	4.008%
8	9.257	1194	1201	1206	rBV	2941901	3870393	99.07%	16.212%
9	9.939	1311	1317	1322	rBV	842247	1085794	27.79%	4.548%
10	10.728	1445	1451	1456	rBV	1996110	2602105	66.60%	10.900%
11	11.428	1564	1570	1575	rBV	977911	1232020	31.53%	5.161%
12	13.016	1834	1840	1845	rBV	2932859	3906898	100.00%	16.365%
13	14.069	2013	2019	2030	rBV	656550	847706	21.70%	3.551%
14	15.563	2266	2273	2286	rVB	377532	594312	15.21%	2.489%

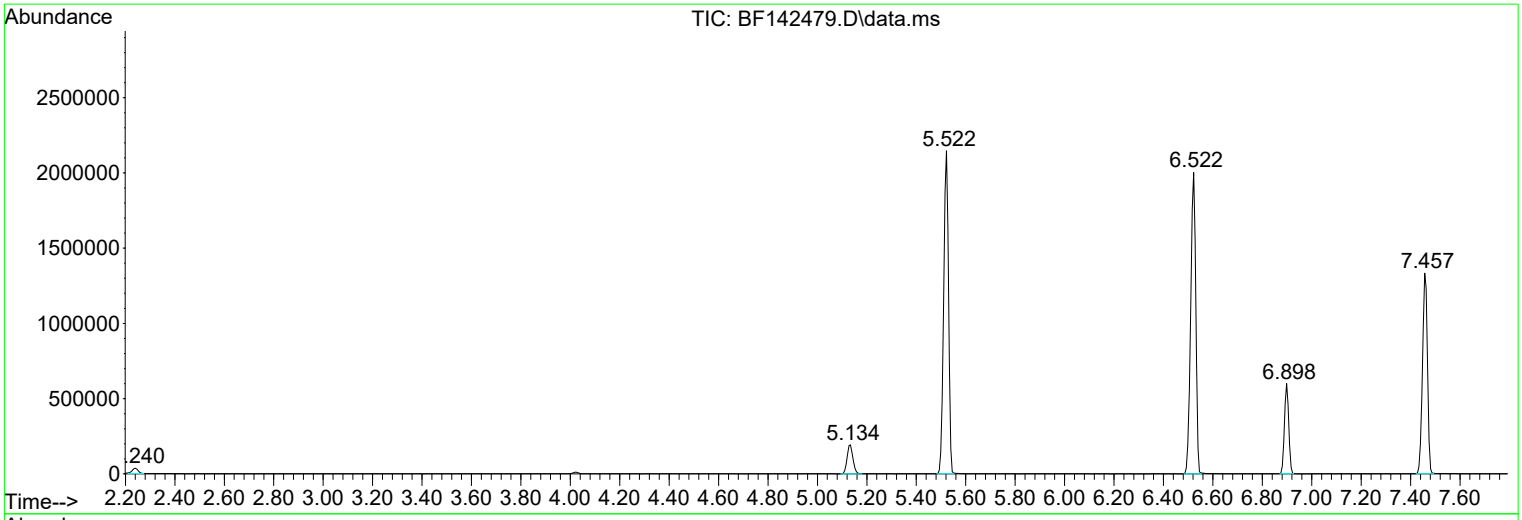
Sum of corrected areas: 23873490

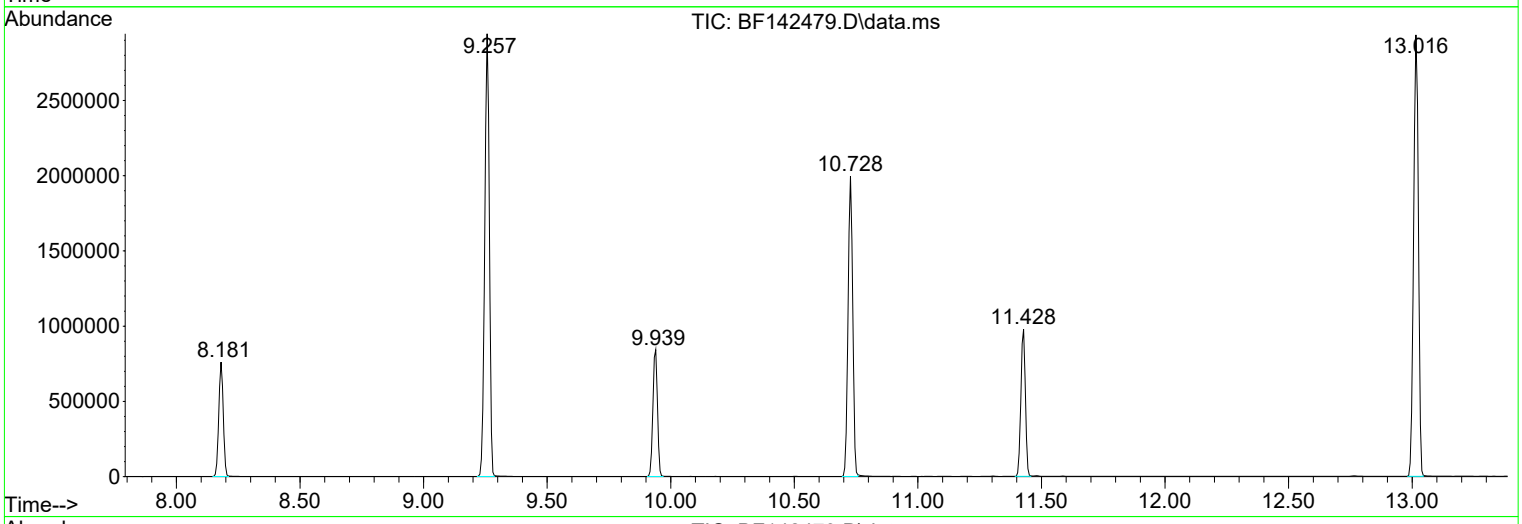
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052125\
Data File : BF142479.D
Acq On : 21 May 2025 11:09
Operator : RC/JU
Sample : PB168083BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

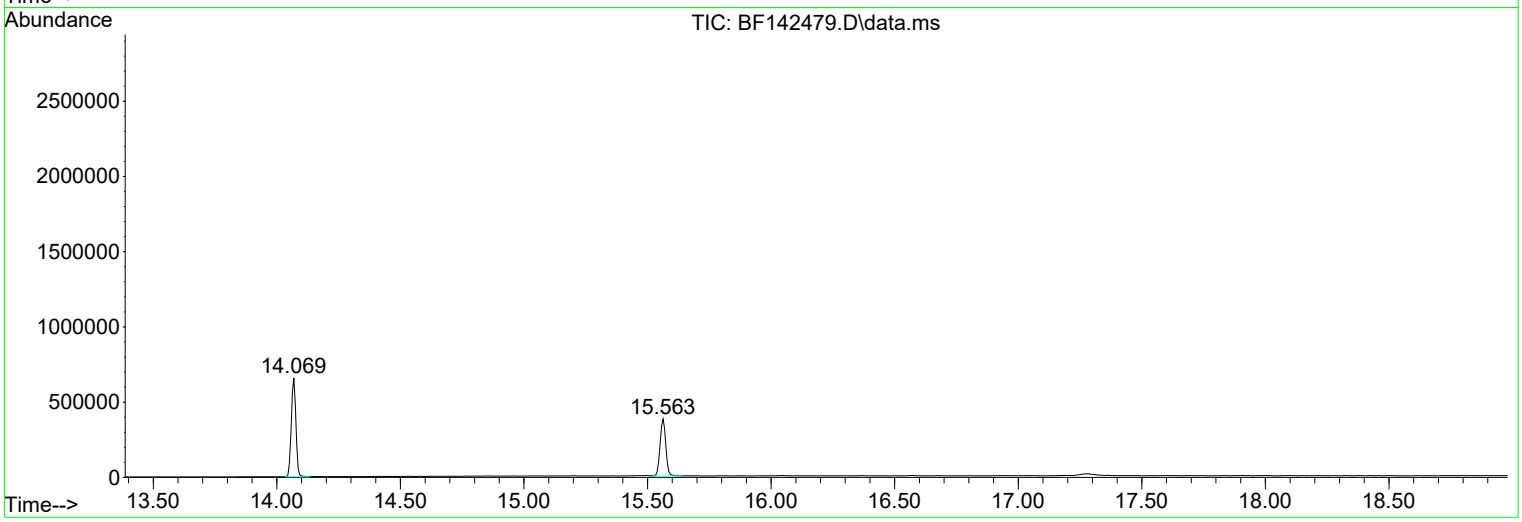
Instrument :
BNA_F
ClientSampleId :
PB168083BL

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\BF052125\
Data File : BF142479.D
Acq On : 21 May 2025 11:09
Operator : RC/JU
Sample : PB168083BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB168083BL

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

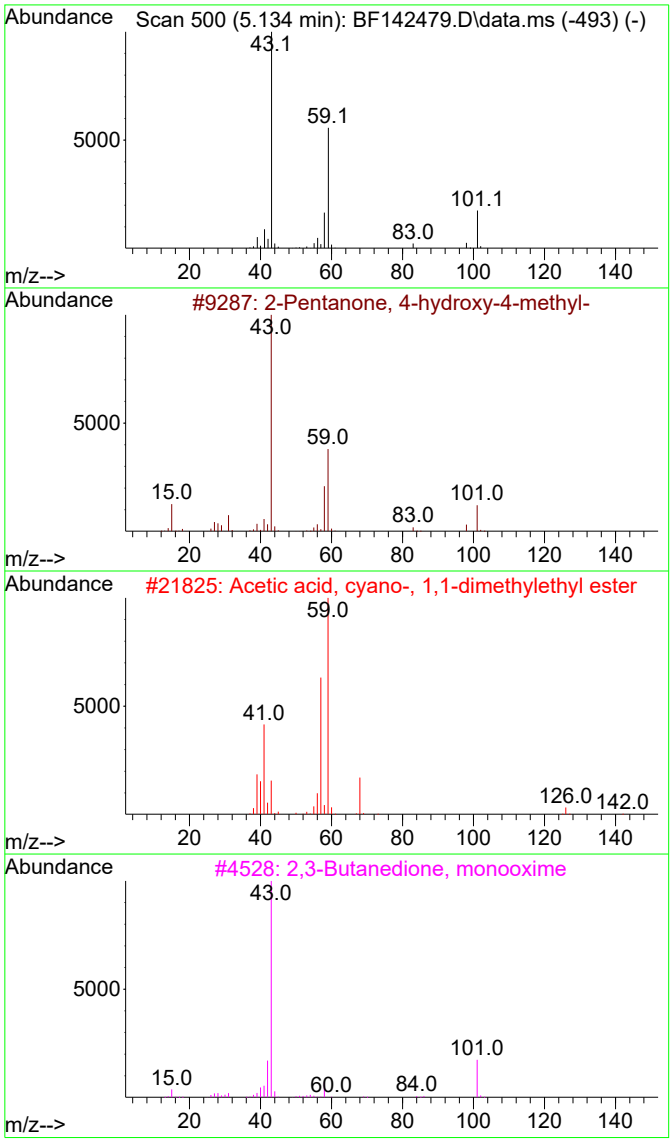
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

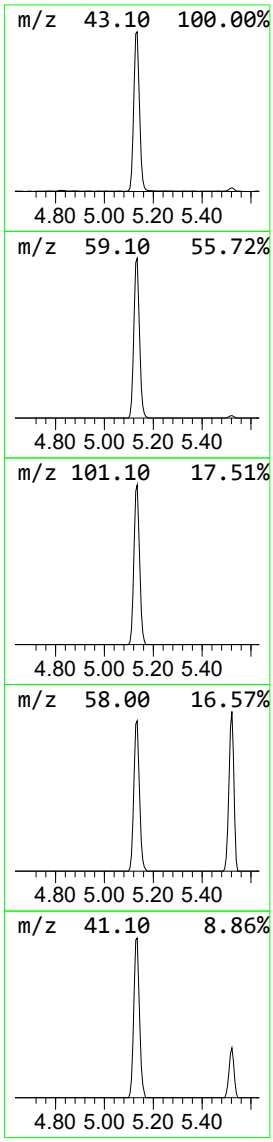
****

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.134	8.64 ng	311221	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	2,3-Butanedione, monooxime	101	C4H7NO2	000057-71-6	16
4	1-Propen-2-ol, acetate	100	C5H8O2	000108-22-5	12
5	Morpholine, 4-methyl-	101	C5H11NO	000109-02-4	9





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052125\
Data File : BF142479.D
Acq On : 21 May 2025 11:09
Operator : RC/JU
Sample : PB168083BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB168083BL

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	8.6	ng	311221	1	6.898	720820	20.0

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052125\
Data File : BF142480.D
Acq On : 21 May 2025 11:37
Operator : RC/JU
Sample : PB168083BS
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB168083BS

Quant Time: May 21 12:24:23 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	124824	20.000	ng	0.00
21) Naphthalene-d8	8.186	136	495438	20.000	ng	0.00
39) Acenaphthene-d10	9.939	164	277044	20.000	ng	0.00
64) Phenanthrene-d10	11.427	188	468851	20.000	ng	0.00
76) Chrysene-d12	14.068	240	214548	20.000	ng	0.00
86) Perylene-d12	15.562	264	229705	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.522	112	789637	106.578	ng	0.00
7) Phenol-d6	6.528	99	1023184	114.723	ng	0.00
23) Nitrobenzene-d5	7.463	82	630226	69.364	ng	-0.01
42) 2,4,6-Tribromophenol	10.733	330	359414	116.889	ng	0.00
45) 2-Fluorobiphenyl	9.263	172	1363534	66.043	ng	0.00
79) Terphenyl-d14	13.015	244	1280646	81.570	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.763	88	96201	32.448	ng	100
3) Pyridine	3.516	79	266558	35.306	ng	99
4) n-Nitrosodimethylamine	3.469	42	148567	37.899	ng	96
6) Aniline	6.563	93	411299	34.298	ng	100
8) 2-Chlorophenol	6.686	128	342541	42.446	ng	100
9) Benzaldehyde	6.451	77	192665	35.916	ng	98
10) Phenol	6.539	94	417865	41.639	ng	98
11) bis(2-Chloroethyl)ether	6.634	93	309767	42.881	ng	100
12) 1,3-Dichlorobenzene	6.839	146	362444	40.249	ng	100
13) 1,4-Dichlorobenzene	6.916	146	370203	40.813	ng	99
14) 1,2-Dichlorobenzene	7.069	146	355431	40.950	ng	99
15) Benzyl Alcohol	7.039	79	279366	42.387	ng	98
16) 2,2'-oxybis(1-Chloropr...	7.175	45	500612	41.266	ng	100
17) 2-Methylphenol	7.151	107	268227	42.571	ng	99
18) Hexachloroethane	7.416	117	127582	40.280	ng	99
19) n-Nitroso-di-n-propyla...	7.310	70	227666	41.189	ng	99
20) 3+4-Methylphenols	7.304	107	334399	41.445	ng	98
22) Acetophenone	7.310	105	439615	40.084	ng	99
24) Nitrobenzene	7.481	77	337199	41.149	ng	99
25) Isophorone	7.722	82	626222	41.224	ng	99
26) 2-Nitrophenol	7.798	139	192665	44.001	ng	97
27) 2,4-Dimethylphenol	7.833	122	329798	42.710	ng	100
28) bis(2-Chloroethoxy)met...	7.928	93	383733	40.438	ng	99
29) 2,4-Dichlorophenol	8.039	162	298440	42.499	ng	99
30) 1,2,4-Trichlorobenzene	8.122	180	310974	40.804	ng	98
31) Naphthalene	8.204	128	1023370	41.950	ng	100
32) Benzoic acid	7.951	122	223837m	47.620	ng	
33) 4-Chloroaniline	8.251	127	189181m	19.138	ng	
34) Hexachlorobutadiene	8.322	225	187885	39.483	ng	100
35) Caprolactam	8.622	113	90734m	46.005	ng	
36) 4-Chloro-3-methylphenol	8.733	107	304323	42.286	ng	98
37) 2-Methylnaphthalene	8.898	142	614650	40.049	ng	100
38) 1-Methylnaphthalene	8.998	142	647702	40.800	ng	99
40) 1,2,4,5-Tetrachloroben...	9.063	216	312557	39.302	ng	99
41) Hexachlorocyclopentadiene	9.051	237	446528	83.232	ng	99
43) 2,4,6-Trichlorophenol	9.175	196	222225	41.439	ng	97

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052125\
Data File : BF142480.D
Acq On : 21 May 2025 11:37
Operator : RC/JU
Sample : PB168083BS
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB168083BS

Quant Time: May 21 12:24:23 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 20 16:26:47 2025
Response via : Initial Calibration

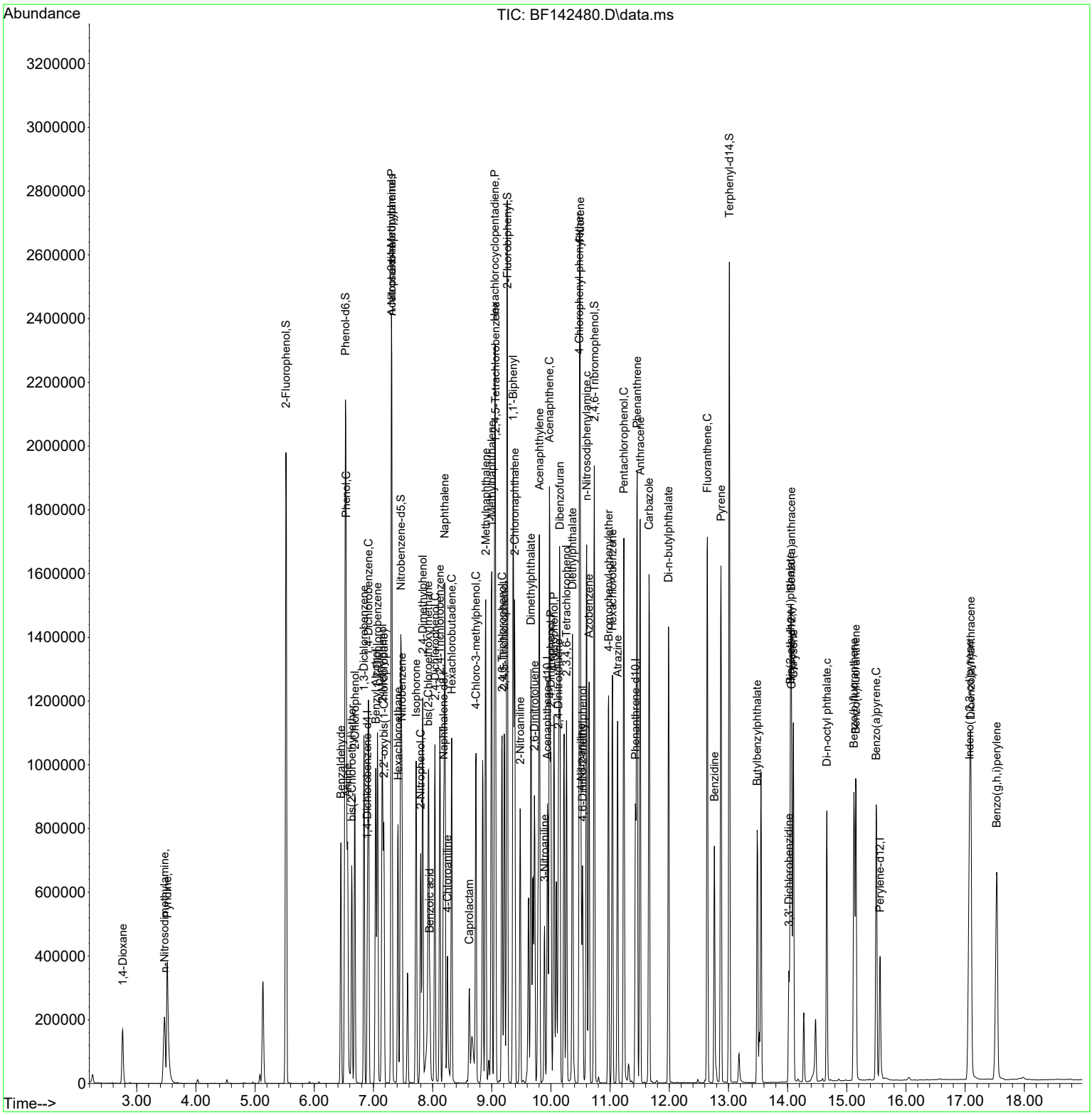
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.210	196	233019	41.201	ng	99
46) 1,1'-Biphenyl	9.363	154	859058	39.968	ng	100
47) 2-Chloronaphthalene	9.386	162	641274	40.382	ng	99
48) 2-Nitroaniline	9.480	65	194148	42.297	ng	97
49) Acenaphthylene	9.804	152	1082413	40.366	ng	100
50) Dimethylphthalate	9.663	163	772268	42.246	ng	100
51) 2,6-Dinitrotoluene	9.722	165	169971	43.080	ng	99
52) Acenaphthene	9.974	154	716666	43.769	ng	100
53) 3-Nitroaniline	9.892	138	115354	26.768	ng	99
54) 2,4-Dinitrophenol	9.998	184	201837	99.019	ng	93
55) Dibenzofuran	10.151	168	978668	41.535	ng	99
56) 4-Nitrophenol	10.051	139	288407	90.703	ng	99
57) 2,4-Dinitrotoluene	10.127	165	236587	45.916	ng	98
58) Fluorene	10.492	166	731497	40.185	ng	99
59) 2,3,4,6-Tetrachlorophenol	10.263	232	199574	42.269	ng	99
60) Diethylphthalate	10.363	149	778235	43.590	ng	100
61) 4-Chlorophenyl-phenyle...	10.480	204	353935	39.581	ng	100
62) 4-Nitroaniline	10.510	138	172618	44.166	ng	99
63) Azobenzene	10.645	77	646640	40.325	ng	99
65) 4,6-Dinitro-2-methylph...	10.533	198	132075	50.477	ng	98
66) n-Nitrosodiphenylamine	10.604	169	625355	38.986	ng	99
67) 4-Bromophenyl-phenylether	10.974	248	227003	40.947	ng	99
68) Hexachlorobenzene	11.039	284	259350	42.297	ng	98
69) Atrazine	11.127	200	199511	46.835	ng	100
70) Pentachlorophenol	11.233	266	293992	84.924	ng	99
71) Phenanthrene	11.457	178	1055879	42.140	ng	99
72) Anthracene	11.510	178	1033289	40.407	ng	99
73) Carbazole	11.657	167	950628	43.485	ng	99
74) Di-n-butylphthalate	11.986	149	1042271	43.556	ng	100
75) Fluoranthene	12.645	202	1035557	44.231	ng	99
77) Benzidine	12.763	184	421887	52.842	ng	99
78) Pyrene	12.874	202	980148	48.973	ng	100
80) Butylbenzylphthalate	13.486	149	268182	48.493	ng	99
81) Benzo(a)anthracene	14.062	228	623164	43.497	ng	99
82) 3,3'-Dichlorobenzidine	14.021	252	106125	24.423	ng	99
83) Chrysene	14.098	228	540084	41.954	ng	99
84) Bis(2-ethylhexyl)phtha...	14.045	149	319188	45.086	ng	100
85) Di-n-octyl phthalate	14.662	149	580953	41.968	ng	100
87) Indeno(1,2,3-cd)pyrene	17.074	276	812696	47.127	ng	100
88) Benzo(b)fluoranthene	15.121	252	609272	44.816	ng	99
89) Benzo(k)fluoranthene	15.151	252	521543	40.959	ng	99
90) Benzo(a)pyrene	15.498	252	561953	43.852	ng	99
91) Dibenzo(a,h)anthracene	17.098	278	657561	47.014	ng	100
92) Benzo(g,h,i)perylene	17.533	276	664539	47.503	ng	98

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052125\
Data File : BF142480.D
Acq On : 21 May 2025 11:37
Operator : RC/JU
Sample : PB168083BS
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB168083BS

Quant Time: May 21 12:24:23 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 20 16:26:47 2025
Response via : Initial Calibration



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052125\
Data File : BF142487.D
Acq On : 21 May 2025 15:06
Operator : RC/JU
Sample : Q2075-04MS
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SS-11MS

Quant Time: May 21 15:50:04 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	54835	20.000	ng		0.00
21) Naphthalene-d8	8.181	136	200654	20.000	ng		0.00
39) Acenaphthene-d10	9.939	164	113830	20.000	ng		0.00
64) Phenanthrene-d10	11.427	188	229012	20.000	ng		0.00
76) Chrysene-d12	14.068	240	210926	20.000	ng		0.00
86) Perylene-d12	15.563	264	176162	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.504	112	317682	97.605	ng		-0.01
7) Phenol-d6	6.516	99	383061	97.770	ng		-0.02
23) Nitrobenzene-d5	7.457	82	222361	60.428	ng		-0.02
42) 2,4,6-Tribromophenol	10.728	330	143338	113.457	ng		-0.01
45) 2-Fluorobiphenyl	9.257	172	437751	51.603	ng		-0.01
79) Terphenyl-d14	13.010	244	640281	41.482	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.634	88	48586	37.304	ng		100
3) Pyridine	3.410	79	130372	39.308	ng		99
4) n-Nitrosodimethylamine	3.346	42	69967	40.629	ng		99
6) Aniline	6.557	93	118384	22.472	ng		98
8) 2-Chlorophenol	6.681	128	145011	40.904	ng		99
9) Benzaldehyde	6.445	77	91556	38.852	ng		98
10) Phenol	6.528	94	180038	40.838	ng		100
11) bis(2-Chloroethyl)ether	6.628	93	125263	39.472	ng		98
12) 1,3-Dichlorobenzene	6.840	146	159388	40.291	ng		98
13) 1,4-Dichlorobenzene	6.916	146	161291	40.477	ng		98
14) 1,2-Dichlorobenzene	7.069	146	153379	40.226	ng		99
15) Benzyl Alcohol	7.034	79	116330	40.178	ng		100
16) 2,2'-oxybis(1-Chloropr...	7.169	45	207807	38.993	ng		100
17) 2-Methylphenol	7.140	107	112125	40.510	ng		99
18) Hexachloroethane	7.410	117	55846	40.136	ng		97
19) n-Nitroso-di-n-propyla...	7.304	70	93232	38.396	ng		100
20) 3+4-Methylphenols	7.292	107	144305	40.713	ng	#	87
22) Acetophenone	7.304	105	193459	43.554	ng		99
24) Nitrobenzene	7.475	77	141023	42.492	ng		98
25) Isophorone	7.716	82	246928	40.136	ng		98
26) 2-Nitrophenol	7.792	139	75333	42.480	ng		99
27) 2,4-Dimethylphenol	7.828	122	132431	42.346	ng		99
28) bis(2-Chloroethoxy)met...	7.928	93	154653	40.240	ng		100
29) 2,4-Dichlorophenol	8.034	162	119698	42.087	ng		99
30) 1,2,4-Trichlorobenzene	8.122	180	128865	41.750	ng		97
31) Naphthalene	8.204	128	419286	42.437	ng		100
32) Benzoic acid	7.916	122	88423m	46.448	ng		
33) 4-Chloroaniline	8.251	127	40768	10.183	ng		99
34) Hexachlorobutadiene	8.322	225	79280	41.136	ng		99
35) Caprolactam	8.598	113	43624m	54.613	ng		
36) 4-Chloro-3-methylphenol	8.728	107	125934	43.206	ng		98
37) 2-Methylnaphthalene	8.892	142	262739	42.270	ng		100
38) 1-Methylnaphthalene	8.992	142	272097	42.320	ng		100
40) 1,2,4,5-Tetrachloroben...	9.063	216	132130	40.437	ng		99
41) Hexachlorocyclopentadiene	9.051	237	162392	73.672	ng		99
43) 2,4,6-Trichlorophenol	9.169	196	89146	40.459	ng		98

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052125\
Data File : BF142487.D
Acq On : 21 May 2025 15:06
Operator : RC/JU
Sample : Q2075-04MS
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SS-11MS

Quant Time: May 21 15:50:04 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 20 16:26:47 2025
Response via : Initial Calibration

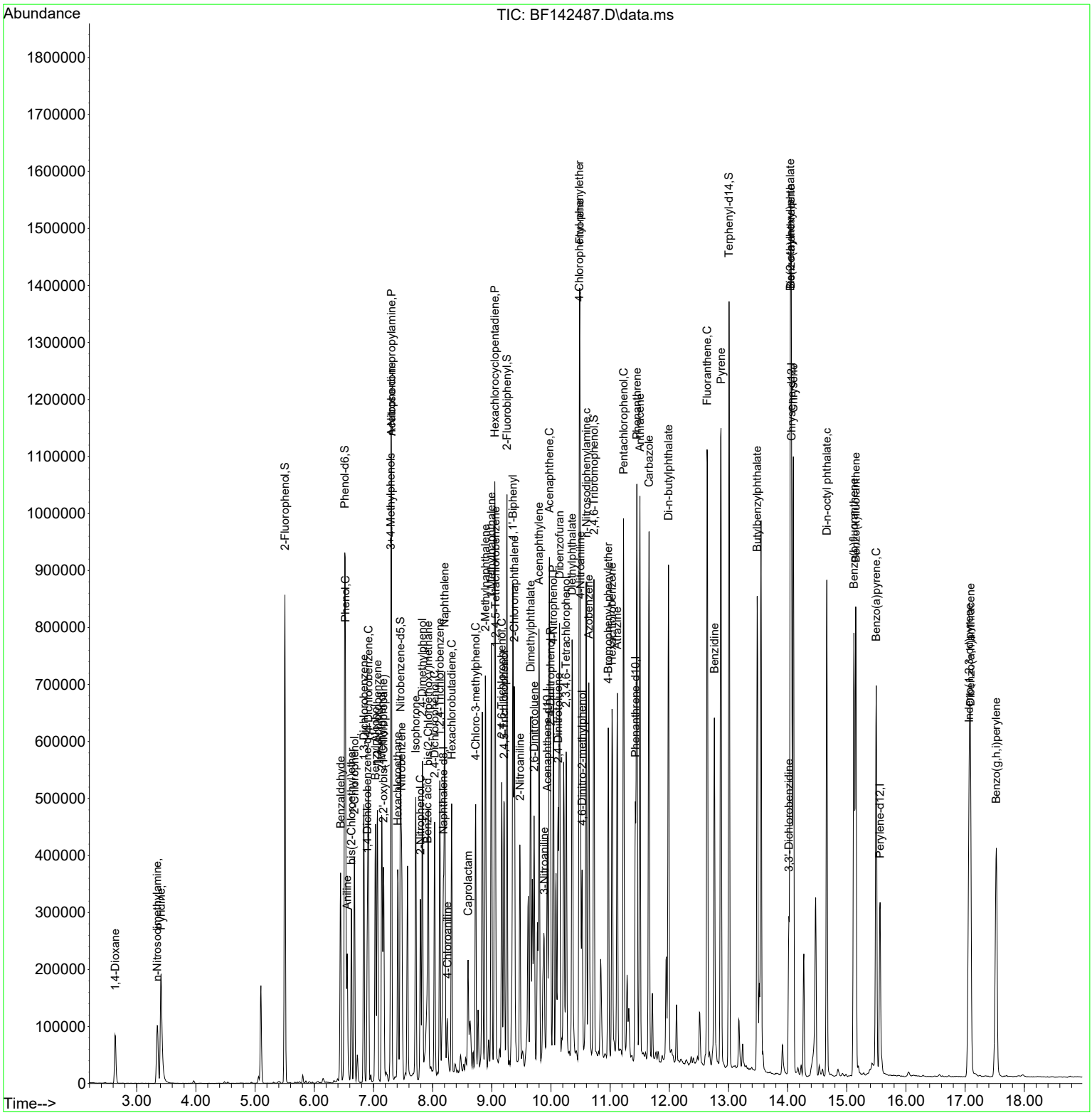
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	9.210	196	97535	41.972	ng		98
46) 1,1'-Biphenyl	9.357	154	366054	41.450	ng		99
47) 2-Chloronaphthalene	9.381	162	261870	40.135	ng		100
48) 2-Nitroaniline	9.475	65	83501	44.275	ng		99
49) Acenaphthylene	9.798	152	461954	41.929	ng		99
50) Dimethylphthalate	9.657	163	321711	42.833	ng		99
51) 2,6-Dinitrotoluene	9.716	165	71155	43.893	ng		98
52) Acenaphthene	9.975	154	316584	47.057	ng		98
53) 3-Nitroaniline	9.886	138	49223	27.800	ng		97
54) 2,4-Dinitrophenol	9.992	184	89427	106.777	ng		97
55) Dibenzofuran	10.145	168	417111	43.085	ng		99
56) 4-Nitrophenol	10.039	139	148325	113.533	ng		94
57) 2,4-Dinitrotoluene	10.122	165	106463	50.288	ng		99
58) Fluorene	10.486	166	334722	44.754	ng		99
59) 2,3,4,6-Tetrachlorophenol	10.257	232	87547	45.129	ng	#	99
60) Diethylphthalate	10.357	149	336727	45.904	ng		99
61) 4-Chlorophenyl-phenyle...	10.480	204	156021	42.465	ng		98
62) 4-Nitroaniline	10.498	138	88055	54.834	ng		99
63) Azobenzene	10.639	77	321047	48.728	ng		97
65) 4,6-Dinitro-2-methylph...	10.528	198	59594	46.629	ng		100
66) n-Nitrosodiphenylamine	10.598	169	302640	38.627	ng		99
67) 4-Bromophenyl-phenylether	10.969	248	100859	37.246	ng		97
68) Hexachlorobenzene	11.033	284	116897	39.031	ng		99
69) Atrazine	11.122	200	107203	51.521	ng		98
70) Pentachlorophenol	11.227	266	154568	91.410	ng		99
71) Phenanthrene	11.451	178	528821	43.208	ng		100
72) Anthracene	11.504	178	544100	43.560	ng		99
73) Carbazole	11.657	167	529990	49.633	ng		100
74) Di-n-butylphthalate	11.986	149	608435	52.055	ng		99
75) Fluoranthene	12.639	202	660582	57.764	ng		100
77) Benzidine	12.763	184	338429	43.116	ng		99
78) Pyrene	12.874	202	669848	34.043	ng		99
80) Butylbenzylphthalate	13.486	149	271799	49.991	ng		99
81) Benzo(a)anthracene	14.057	228	611032	43.383	ng		98
82) 3,3'-Dichlorobenzidine	14.021	252	81284	19.027	ng		97
83) Chrysene	14.098	228	524218	41.421	ng		100
84) Bis(2-ethylhexyl)phtha...	14.045	149	376196	54.051	ng		100
85) Di-n-octyl phthalate	14.663	149	605040	44.459	ng		100
87) Indeno(1,2,3-cd)pyrene	17.068	276	477933	36.138	ng		99
88) Benzo(b)fluoranthene	15.121	252	530624	50.894	ng		98
89) Benzo(k)fluoranthene	15.151	252	416436	42.645	ng		99
90) Benzo(a)pyrene	15.498	252	434657	44.228	ng		99
91) Dibenzo(a,h)anthracene	17.092	278	382303	35.642	ng		99
92) Benzo(g,h,i)perylene	17.527	276	380185	35.437	ng		100

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052125\
Data File : BF142487.D
Acq On : 21 May 2025 15:06
Operator : RC/JU
Sample : Q2075-04MS
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SS-11MS

Quant Time: May 21 15:50:04 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 20 16:26:47 2025
Response via : Initial Calibration



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052125\
Data File : BF142488.D
Acq On : 21 May 2025 15:34
Operator : RC/JU
Sample : Q2075-05MSD
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SS-11MSD

Quant Time: May 21 16:00:05 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	53473	20.000	ng		0.00
21) Naphthalene-d8	8.181	136	192497	20.000	ng		0.00
39) Acenaphthene-d10	9.939	164	95696	20.000	ng		0.00
64) Phenanthrene-d10	11.427	188	179294	20.000	ng		0.00
76) Chrysene-d12	14.068	240	174160	20.000	ng		0.00
86) Perylene-d12	15.557	264	147670	20.000	ng		-0.01
System Monitoring Compounds							
5) 2-Fluorophenol	5.504	112	304079	95.805	ng		-0.01
7) Phenol-d6	6.516	99	365334	95.621	ng		-0.02
23) Nitrobenzene-d5	7.457	82	210235	59.553	ng		-0.02
42) 2,4,6-Tribromophenol	10.728	330	113033	106.424	ng		-0.01
45) 2-Fluorobiphenyl	9.257	172	388254	54.441	ng		-0.01
79) Terphenyl-d14	13.010	244	512173	40.188	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.634	88	46460	36.580	ng		97
3) Pyridine	3.410	79	126162	39.007	ng		99
4) n-Nitrosodimethylamine	3.346	42	67799	40.373	ng		96
6) Aniline	6.557	93	112810	21.959	ng		99
8) 2-Chlorophenol	6.681	128	139131	40.245	ng		98
9) Benzaldehyde	6.445	77	86641	37.703	ng		99
10) Phenol	6.528	94	171228	39.829	ng		100
11) bis(2-Chloroethyl)ether	6.628	93	121333	39.208	ng		100
12) 1,3-Dichlorobenzene	6.840	146	155190	40.230	ng		98
13) 1,4-Dichlorobenzene	6.916	146	155412	39.995	ng		98
14) 1,2-Dichlorobenzene	7.069	146	149202	40.127	ng		98
15) Benzyl Alcohol	7.034	79	108038	38.264	ng		97
16) 2,2'-oxybis(1-Chloropr...	7.169	45	198589	38.213	ng		100
17) 2-Methylphenol	7.145	107	105761	39.184	ng		97
18) Hexachloroethane	7.410	117	53195	39.204	ng		96
19) n-Nitroso-di-n-propyla...	7.304	70	86737	36.631	ng		98
20) 3+4-Methylphenols	7.292	107	134110	38.800	ng	#	87
22) Acetophenone	7.304	105	181145	42.510	ng		99
24) Nitrobenzene	7.475	77	132830	41.719	ng		99
25) Isophorone	7.716	82	230066	38.979	ng		98
26) 2-Nitrophenol	7.792	139	71728	42.161	ng		98
27) 2,4-Dimethylphenol	7.828	122	121560	40.517	ng		99
28) bis(2-Chloroethoxy)met...	7.928	93	142931	38.766	ng		99
29) 2,4-Dichlorophenol	8.034	162	110236	40.402	ng		99
30) 1,2,4-Trichlorobenzene	8.122	180	123234	41.617	ng		98
31) Naphthalene	8.204	128	394689	41.641	ng		99
32) Benzoic acid	7.916	122	75602m	41.396	ng		
33) 4-Chloroaniline	8.251	127	39518	10.289	ng		98
34) Hexachlorobutadiene	8.322	225	75196	40.670	ng		99
35) Caprolactam	8.598	113	35475	46.294	ng		92
36) 4-Chloro-3-methylphenol	8.728	107	109810	39.271	ng		97
37) 2-Methylnaphthalene	8.892	142	240543	40.339	ng		99
38) 1-Methylnaphthalene	8.992	142	248451	40.280	ng		99
40) 1,2,4,5-Tetrachloroben...	9.063	216	118777	43.238	ng		98
41) Hexachlorocyclopentadiene	9.051	237	151109	81.543	ng		98
43) 2,4,6-Trichlorophenol	9.169	196	77212	41.683	ng		96

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052125\
Data File : BF142488.D
Acq On : 21 May 2025 15:34
Operator : RC/JU
Sample : Q2075-05MSD
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SS-11MSD

Quant Time: May 21 16:00:05 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 20 16:26:47 2025
Response via : Initial Calibration

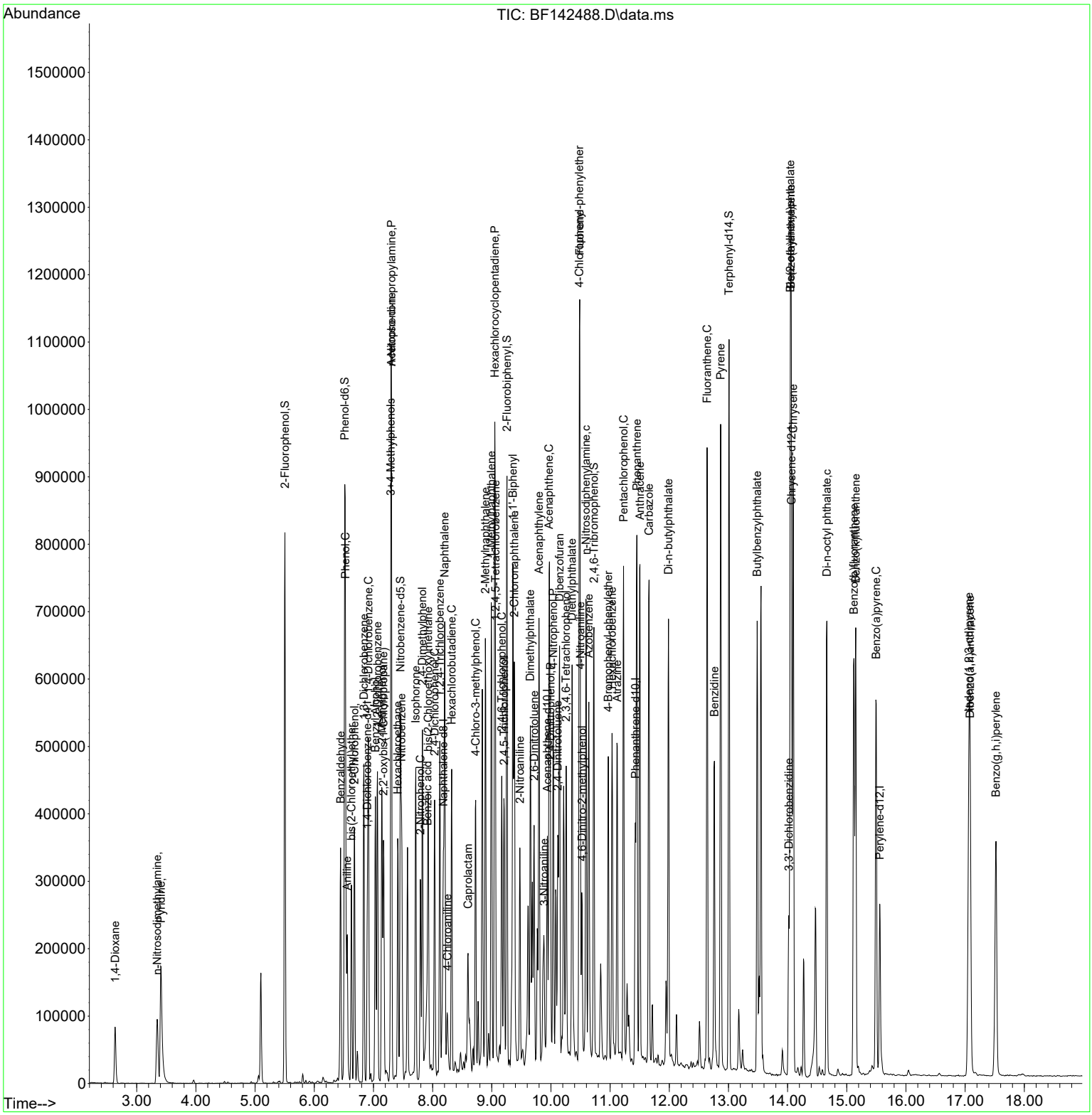
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	9.210	196	80798	41.359	ng		98
46) 1,1'-Biphenyl	9.357	154	318472	42.896	ng		99
47) 2-Chloronaphthalene	9.381	162	232356	42.360	ng		99
48) 2-Nitroaniline	9.475	65	69874	44.071	ng		99
49) Acenaphthylene	9.798	152	396591	42.817	ng		100
50) Dimethylphthalate	9.651	163	265370	42.027	ng		99
51) 2,6-Dinitrotoluene	9.716	165	58315	42.790	ng		100
52) Acenaphthene	9.969	154	265263	46.901	ng		99
53) 3-Nitroaniline	9.886	138	39078	26.253	ng		96
54) 2,4-Dinitrophenol	9.992	184	68143	96.781	ng		96
55) Dibenzofuran	10.145	168	342315	42.059	ng		98
56) 4-Nitrophenol	10.039	139	117563	107.039	ng		100
57) 2,4-Dinitrotoluene	10.116	165	82986	46.626	ng		95
58) Fluorene	10.486	166	270781	43.065	ng		99
59) 2,3,4,6-Tetrachlorophenol	10.257	232	67912	41.641	ng	#	97
60) Diethylphthalate	10.357	149	263021	42.650	ng		100
61) 4-Chlorophenyl-phenyle...	10.480	204	127605	41.312	ng		97
62) 4-Nitroaniline	10.498	138	66970	49.607	ng		99
63) Azobenzene	10.639	77	253765	45.814	ng		96
65) 4,6-Dinitro-2-methylph...	10.528	198	44708	44.681	ng		97
66) n-Nitrosodiphenylamine	10.592	169	239679	39.074	ng		99
67) 4-Bromophenyl-phenylether	10.969	248	77907	36.748	ng		99
68) Hexachlorobenzene	11.033	284	89239	38.058	ng		98
69) Atrazine	11.122	200	80957	49.697	ng		99
70) Pentachlorophenol	11.227	266	118109	89.217	ng		99
71) Phenanthrene	11.451	178	416981	43.518	ng		99
72) Anthracene	11.504	178	425552	43.517	ng		99
73) Carbazole	11.657	167	425725	50.924	ng		99
74) Di-n-butylphthalate	11.986	149	464959	50.811	ng		100
75) Fluoranthene	12.639	202	529880	59.183	ng		99
77) Benzidine	12.763	184	260706	40.226	ng		99
78) Pyrene	12.869	202	555060	34.165	ng		100
80) Butylbenzylphthalate	13.486	149	219971	49.000	ng		98
81) Benzo(a)anthracene	14.057	228	488067	41.968	ng		100
82) 3,3'-Dichlorobenzidine	14.021	252	71192	20.183	ng		99
83) Chrysene	14.092	228	449179	42.984	ng		99
84) Bis(2-ethylhexyl)phtha...	14.045	149	300378	52.268	ng		100
85) Di-n-octyl phthalate	14.663	149	480004	42.717	ng		100
87) Indeno(1,2,3-cd)pyrene	17.062	276	397462	35.852	ng		100
88) Benzo(b)fluoranthene	15.121	252	398076	45.547	ng		98
89) Benzo(k)fluoranthene	15.151	252	375338	45.852	ng		99
90) Benzo(a)pyrene	15.498	252	358666	43.537	ng		99
91) Dibenzo(a,h)anthracene	17.086	278	318429	35.415	ng		100
92) Benzo(g,h,i)perylene	17.521	276	318190	35.381	ng		99

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052125\
Data File : BF142488.D
Acq On : 21 May 2025 15:34
Operator : RC/JU
Sample : Q2075-05MSD
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SS-11MSD

Quant Time: May 21 16:00:05 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 20 16:26:47 2025
Response via : Initial Calibration



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

Manual Integration Report

Sequence:	bf052025	Instrument	BNA_f

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDICC010	BF142469.D	Benzoic acid	Rahul	5/21/2025 2:07:30 PM	Jagrut	5/21/2025 4:43:55 PM	Peak Integrated by Software

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

Manual Integration Report

Sequence:	BF052125	Instrument	BNA_f

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
PB168083BS	BF142480.D	4-Chloroaniline	Rahul	5/22/2025 1:18:41 PM	Jagrut	5/22/2025 2:52:55 PM	Peak Integrated by Software
PB168083BS	BF142480.D	Benzoic acid	Rahul	5/22/2025 1:18:41 PM	Jagrut	5/22/2025 2:52:55 PM	Peak Integrated by Software
PB168083BS	BF142480.D	Caprolactam	Rahul	5/22/2025 1:18:41 PM	Jagrut	5/22/2025 2:52:55 PM	Peak Integrated by Software
Q2075-04MS	BF142487.D	Benzoic acid	Rahul	5/22/2025 1:18:43 PM	Jagrut	5/22/2025 2:52:58 PM	Peak Integrated by Software
Q2075-04MS	BF142487.D	Caprolactam	Rahul	5/22/2025 1:18:43 PM	Jagrut	5/22/2025 2:52:58 PM	Peak Integrated by Software
Q2075-05MSD	BF142488.D	Benzoic acid	Rahul	5/22/2025 1:18:48 PM	Jagrut	5/22/2025 2:53:01 PM	Peak Integrated by Software

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

Manual Integration Report

Sequence:	bf052225	Instrument	BNA_f

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q2074-01	BF142513.D	Benzo(a)anthracene	Rahul	5/23/2025 11:46:30 AM	Jagrut	5/23/2025 5:05:37 PM	Peak Integrated by Software
Q2074-01	BF142513.D	Benzo(b)fluoranthene	Rahul	5/23/2025 11:46:30 AM	Jagrut	5/23/2025 5:05:37 PM	Peak Integrated by Software
Q2074-01	BF142513.D	Benzo(k)fluoranthene	Rahul	5/23/2025 11:46:30 AM	Jagrut	5/23/2025 5:05:37 PM	Peak Integrated by Software
Q2074-07	BF142515.D	Benzo(a)anthracene	Rahul	5/23/2025 11:46:33 AM	Jagrut	5/23/2025 5:05:40 PM	Peak Integrated by Software
Q2074-07	BF142515.D	Benzo(b)fluoranthene	Rahul	5/23/2025 11:46:33 AM	Jagrut	5/23/2025 5:05:40 PM	Peak Integrated by Software
Q2074-07	BF142515.D	Benzo(k)fluoranthene	Rahul	5/23/2025 11:46:33 AM	Jagrut	5/23/2025 5:05:40 PM	Peak Integrated by Software
Q2074-07	BF142515.D	Chrysene	Rahul	5/23/2025 11:46:33 AM	Jagrut	5/23/2025 5:05:40 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 # BF052125

Review By	Rahul	Review On	5/22/2025 1:19:28 PM				
Supervise By	Jagrut	Supervise On	5/22/2025 2:53:36 PM				
SubDirectory	BF052125	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	BF142477.D	21 May 2025 09:41	RC/JU	Ok
2	SSTDCCC040	BF142478.D	21 May 2025 10:40	RC/JU	Ok
3	PB168083BL	BF142479.D	21 May 2025 11:09	RC/JU	Ok
4	PB168083BS	BF142480.D	21 May 2025 11:37	RC/JU	Ok,M
5	Q2074-02	BF142481.D	21 May 2025 12:14	RC/JU	Ok
6	Q2074-04	BF142482.D	21 May 2025 12:43	RC/JU	Ok
7	Q2074-05	BF142483.D	21 May 2025 13:11	RC/JU	ReRun
8	Q2074-06	BF142484.D	21 May 2025 13:40	RC/JU	Ok
9	Q2074-08	BF142485.D	21 May 2025 14:08	RC/JU	ReRun
10	Q2075-03	BF142486.D	21 May 2025 14:37	RC/JU	Ok
11	Q2075-04MS	BF142487.D	21 May 2025 15:06	RC/JU	Ok,M
12	Q2075-05MSD	BF142488.D	21 May 2025 15:34	RC/JU	Ok,M
13	Q2075-06	BF142489.D	21 May 2025 16:03	RC/JU	Ok
14	Q2068-01	BF142490.D	21 May 2025 16:32	RC/JU	Ok
15	Q2080-01	BF142491.D	21 May 2025 17:10	RC/JU	ReRun
16	Q2080-07	BF142492.D	21 May 2025 17:39	RC/JU	ReRun
17	Q2071-08	BF142493.D	21 May 2025 18:07	RC/JU	ReRun
18	Q2071-12	BF142494.D	21 May 2025 18:36	RC/JU	Ok
19	Q2075-01	BF142495.D	21 May 2025 19:05	RC/JU	ReRun
20	Q2075-02	BF142496.D	21 May 2025 19:34	RC/JU	ReRun
21	Q2074-01	BF142497.D	21 May 2025 20:03	RC/JU	ReRun

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Fax : 908 789 8922

Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF052125

Review By	Rahul	Review On	5/22/2025 1:19:28 PM				
Supervise By	Jagrut	Supervise On	5/22/2025 2:53:36 PM				
SubDirectory	BF052125	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	Q2074-03	BF142498.D	21 May 2025 20:32	RC/JU	ReRun
23	Q2074-07	BF142499.D	21 May 2025 21:01	RC/JU	ReRun
24	Q2052-01	BF142500.D	21 May 2025 21:30	RC/JU	ReRun

M : Manual Integration

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF052225

Review By	Rahul	Review On	5/23/2025 11:49:39 AM				
Supervise By	Jagrut	Supervise On	5/23/2025 5:06:44 PM				
SubDirectory	BF052225	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	BF142501.D	22 May 2025 10:43	RC/JU	Ok
2	SSTDCCC040	BF142502.D	22 May 2025 11:11	RC/JU	Ok
3	PB168104BL	BF142503.D	22 May 2025 11:41	RC/JU	Ok
4	PB168104BS	BF142504.D	22 May 2025 12:09	RC/JU	Ok,M
5	Q2074-05	BF142505.D	22 May 2025 12:42	RC/JU	Ok
6	Q2074-08	BF142506.D	22 May 2025 13:11	RC/JU	Ok
7	Q2080-01	BF142507.D	22 May 2025 13:40	RC/JU	Ok
8	Q2080-07	BF142508.D	22 May 2025 14:09	RC/JU	Ok
9	Q2071-08	BF142509.D	22 May 2025 14:38	RC/JU	Ok
10	Q2075-01	BF142510.D	22 May 2025 15:07	RC/JU	Ok,M
11	Q2075-02	BF142511.D	22 May 2025 15:36	RC/JU	Ok,M
12	Q2052-01	BF142512.D	22 May 2025 16:04	RC/JU	Ok,M
13	Q2074-01	BF142513.D	22 May 2025 16:34	RC/JU	Ok,M
14	Q2074-03	BF142514.D	22 May 2025 17:03	RC/JU	Ok
15	Q2074-07	BF142515.D	22 May 2025 17:32	RC/JU	Ok,M
16	Q2092-01	BF142516.D	22 May 2025 18:00	RC/JU	Ok
17	Q2097-06	BF142517.D	22 May 2025 18:29	RC/JU	Ok
18	Q2097-08	BF142518.D	22 May 2025 18:58	RC/JU	Ok
19	Q2097-10	BF142519.D	22 May 2025 19:27	RC/JU	Ok
20	Q2097-14	BF142520.D	22 May 2025 19:56	RC/JU	Ok
21	Q2095-05	BF142521.D	22 May 2025 20:25	RC/JU	Ok

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF052225

Review By	Rahul	Review On	5/23/2025 11:49:39 AM				
Supervise By	Jagrut	Supervise On	5/23/2025 5:06:44 PM				
SubDirectory	BF052225	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	Q2097-17	BF142522.D	22 May 2025 20:53	RC/JU	Ok
23	Q2101-01	BF142523.D	22 May 2025 21:22	RC/JU	Ok,M
24	Q2104-01	BF142524.D	22 May 2025 21:51	RC/JU	Ok,M
25	Q2095-01	BF142525.D	22 May 2025 22:20	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 # BF052125

Review By	Rahul	Review On	5/22/2025 1:19:28 PM		
Supervise By	Jagrut	Supervise On	5/22/2025 2:53:36 PM		
SubDirectory	BF052125	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	BF142477.D	21 May 2025 09:41		RC/JU	Ok
2	SSTDCCC040	SSTDCCC040	BF142478.D	21 May 2025 10:40		RC/JU	Ok
3	PB168083BL	PB168083BL	BF142479.D	21 May 2025 11:09		RC/JU	Ok
4	PB168083BS	PB168083BS	BF142480.D	21 May 2025 11:37		RC/JU	Ok,M
5	Q2074-02	TP-7	BF142481.D	21 May 2025 12:14		RC/JU	Ok
6	Q2074-04	TP-20	BF142482.D	21 May 2025 12:43		RC/JU	Ok
7	Q2074-05	TP-38	BF142483.D	21 May 2025 13:11	Internal Standard Fail	RC/JU	ReRun
8	Q2074-06	TP-19	BF142484.D	21 May 2025 13:40		RC/JU	Ok
9	Q2074-08	TP-18	BF142485.D	21 May 2025 14:08	Internal Standard Fail	RC/JU	ReRun
10	Q2075-03	SS-11	BF142486.D	21 May 2025 14:37		RC/JU	Ok
11	Q2075-04MS	SS-11MS	BF142487.D	21 May 2025 15:06	Internal Standard Fail	RC/JU	Ok,M
12	Q2075-05MSD	SS-11MSD	BF142488.D	21 May 2025 15:34	Internal Standard Fail	RC/JU	Ok,M
13	Q2075-06	SS-MW1-11.5	BF142489.D	21 May 2025 16:03	Internal Standard Fail	RC/JU	Ok
14	Q2068-01	LAW-25-0075	BF142490.D	21 May 2025 16:32	Internal Standard Fail	RC/JU	Ok
15	Q2080-01	PL-HRH-COMP-01	BF142491.D	21 May 2025 17:10	Internal Standard Fail	RC/JU	ReRun
16	Q2080-07	PL-HRH-COMP-02	BF142492.D	21 May 2025 17:39	Internal Standard Fail	RC/JU	ReRun
17	Q2071-08	L1-WC-8	BF142493.D	21 May 2025 18:07	Internal Standard Fail	RC/JU	ReRun
18	Q2071-12	L1-WC-9	BF142494.D	21 May 2025 18:36		RC/JU	Ok

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF052125

Review By	Rahul	Review On	5/22/2025 1:19:28 PM		
Supervise By	Jagrut	Supervise On	5/22/2025 2:53:36 PM		
SubDirectory	BF052125	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	Q2075-01	SS-10	BF142495.D	21 May 2025 19:05	Internal Standard Fail	RC/JU	ReRun
20	Q2075-02	SS-910	BF142496.D	21 May 2025 19:34	Internal Standard Fail	RC/JU	ReRun
21	Q2074-01	TP-12	BF142497.D	21 May 2025 20:03	Internal Standard Fail	RC/JU	ReRun
22	Q2074-03	TP-15	BF142498.D	21 May 2025 20:32	Internal Standard Fail	RC/JU	ReRun
23	Q2074-07	TP-40	BF142499.D	21 May 2025 21:01	Internal Standard Fail	RC/JU	ReRun
24	Q2052-01	TP-B	BF142500.D	21 May 2025 21:30	Internal Standard Fail	RC/JU	ReRun

M : Manual Integration

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF052225

Review By	Rahul	Review On	5/23/2025 11:49:39 AM		
Supervise By	Jagrut	Supervise On	5/23/2025 5:06:44 PM		
SubDirectory	BF052225	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	BF142501.D	22 May 2025 10:43		RC/JU	Ok
2	SSTDCCC040	SSTDCCC040	BF142502.D	22 May 2025 11:11		RC/JU	Ok
3	PB168104BL	PB168104BL	BF142503.D	22 May 2025 11:41		RC/JU	Ok
4	PB168104BS	PB168104BS	BF142504.D	22 May 2025 12:09		RC/JU	Ok,M
5	Q2074-05	TP-38	BF142505.D	22 May 2025 12:42		RC/JU	Ok
6	Q2074-08	TP-18	BF142506.D	22 May 2025 13:11		RC/JU	Ok
7	Q2080-01	PL-HRH-COMP-01	BF142507.D	22 May 2025 13:40		RC/JU	Ok
8	Q2080-07	PL-HRH-COMP-02	BF142508.D	22 May 2025 14:09		RC/JU	Ok
9	Q2071-08	L1-WC-8	BF142509.D	22 May 2025 14:38		RC/JU	Ok
10	Q2075-01	SS-10	BF142510.D	22 May 2025 15:07		RC/JU	Ok,M
11	Q2075-02	SS-910	BF142511.D	22 May 2025 15:36		RC/JU	Ok,M
12	Q2052-01	TP-B	BF142512.D	22 May 2025 16:04		RC/JU	Ok,M
13	Q2074-01	TP-12	BF142513.D	22 May 2025 16:34		RC/JU	Ok,M
14	Q2074-03	TP-15	BF142514.D	22 May 2025 17:03		RC/JU	Ok
15	Q2074-07	TP-40	BF142515.D	22 May 2025 17:32		RC/JU	Ok,M
16	Q2092-01	VNJ-202	BF142516.D	22 May 2025 18:00		RC/JU	Ok
17	Q2097-06	RBR251675	BF142517.D	22 May 2025 18:29		RC/JU	Ok
18	Q2097-08	VNJ-244	BF142518.D	22 May 2025 18:58		RC/JU	Ok

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF052225

Review By	Rahul	Review On	5/23/2025 11:49:39 AM		
Supervise By	Jagrut	Supervise On	5/23/2025 5:06:44 PM		
SubDirectory	BF052225	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	Q2097-10	ETGI-290	BF142519.D	22 May 2025 19:27		RC/JU	Ok
20	Q2097-14	RBR251372	BF142520.D	22 May 2025 19:56		RC/JU	Ok
21	Q2095-05	WCS-TP2	BF142521.D	22 May 2025 20:25		RC/JU	Ok
22	Q2097-17	RT-3888	BF142522.D	22 May 2025 20:53		RC/JU	Ok
23	Q2101-01	TP-1-MHE	BF142523.D	22 May 2025 21:22		RC/JU	Ok,M
24	Q2104-01	TR-06-052125	BF142524.D	22 May 2025 21:51		RC/JU	Ok,M
25	Q2095-01	WCS-TP1	BF142525.D	22 May 2025 22:20		RC/JU	Ok,M

M : Manual Integration

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EXTRACTION LOGPAGE

PB168083

SOP ID:	M3541-ASE Extraction-14				
Clean Up SOP #:	N/A			**Extraction Start Date :**	05/20/2025
Matrix :	Solid			**Extraction Start Time :**	09:45
Weigh By:	EH	**Extraction By:**	RJ	**Extraction End Date :**	05/20/2025
Balance check:	RJ	**Filter By:**	RJ	**Extraction End Time :**	13:00
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

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
5/20/25	RS (Ext lab)	RL/SVOC
13:05	**Preparation Group**	**Analysis Group**

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PrepBatch ID : PB168083

Analytical Method: M3541-ASE Extraction-14 **Concentration Date:** 05/20/2025

Sample ID	Client Sample ID	Test	g mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB168083BL	SBLK083	SVOC-TCL BNA -20	30.01	N/A	ritesh	Evelyn	1			U6-1
PB168083BS	SLCS083	SVOC-TCL BNA -20	30.03	N/A	ritesh	Evelyn	1			2
Q2074-01	TP-12	SVOC-TCL BNA -20	30.07	N/A	ritesh	Evelyn	1	E		3
Q2074-02	TP-7	SVOC-TCL BNA -20	30.06	N/A	ritesh	Evelyn	1	E		4
Q2074-03	TP-15	SVOC-TCL BNA -20	30.02	N/A	ritesh	Evelyn	1	E		5
Q2074-04	TP-20	SVOC-TCL BNA -20	30.05	N/A	ritesh	Evelyn	1	E		6
Q2074-05	TP-38	SVOC-TCL BNA -20	30.08	N/A	ritesh	Evelyn	1	E		U1-1
Q2074-06	TP-19	SVOC-TCL BNA -20	30.06	N/A	ritesh	Evelyn	1	E		2
Q2074-07	TP-40	SVOC-TCL BNA -20	30.03	N/A	ritesh	Evelyn	1	E		3
Q2074-08	TP-18	SVOC-TCL BNA -20	30.05	N/A	ritesh	Evelyn	1	E		4
Q2075-01	SS-10	SVOCMS Group3	30.01	N/A	ritesh	Evelyn	1	E		5
Q2075-02	SS-910	SVOCMS Group3	30.06	N/A	ritesh	Evelyn	1	E		6
Q2075-03	SS-11	SVOCMS Group3	30.04	N/A	ritesh	Evelyn	1	E		U2-1
Q2075-04	Q2075-03MS	SVOCMS Group3	30.07	N/A	ritesh	Evelyn	1	E		2
Q2075-05	Q2075-03MSD	SVOCMS Group3	30.03	N/A	ritesh	Evelyn	1	E		3
Q2075-06	SS-MW1-11.5	SVOCMS Group3	30.06	N/A	ritesh	Evelyn	1	E		4
Q2080-01	PL-HRH-COMP-01	SVOC-TCL BNA -20	50.08	N/A	ritesh	Evelyn	1	E		5
Q2080-07	PL-HRH-COMP-02	SVOC-TCL BNA -20	50.05	N/A	ritesh	Evelyn	1	E		6

RS 5/20

* **Extracts relinquished on the same date as received.**

Q2074 68883 1:45

WORKLIST(Hardcopy Internal Chain)

WorkList Name : Q2080BN **WorkList ID :** 189621 **Department :** Extraction **Date :** 05-20-2025 08:37:41

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2074-01	TP-12	Solid	SVOC-TCL BNA -20	Cool 4 deg C	CAMP02	L31	05/16/2025	8270E
Q2074-02	TP-7	Solid	SVOC-TCL BNA -20	Cool 4 deg C	CAMP02	L31	05/16/2025	8270E
Q2074-03	TP-15	Solid	SVOC-TCL BNA -20	Cool 4 deg C	CAMP02	L31	05/16/2025	8270E
Q2074-04	TP-20	Solid	SVOC-TCL BNA -20	Cool 4 deg C	CAMP02	L31	05/16/2025	8270E
Q2074-05	TP-38	Solid	SVOC-TCL BNA -20	Cool 4 deg C	CAMP02	L31	05/16/2025	8270E
Q2074-06	TP-19	Solid	SVOC-TCL BNA -20	Cool 4 deg C	CAMP02	L31	05/16/2025	8270E
Q2074-07	TP-40	Solid	SVOC-TCL BNA -20	Cool 4 deg C	CAMP02	L31	05/16/2025	8270E
Q2074-08	TP-18	Solid	SVOC-TCL BNA -20	Cool 4 deg C	CAMP02	L31	05/16/2025	8270E
Q2075-01	SS-10	Solid	SVOCMS Group3	Cool 4 deg C	CAMP02	L41	05/15/2025	8270E
Q2075-02	SS-910	Solid	SVOCMS Group3	Cool 4 deg C	CAMP02	L41	05/15/2025	8270E
Q2075-03	SS-11	Solid	SVOCMS Group3	Cool 4 deg C	CAMP02	L41	05/15/2025	8270E
Q2075-04	Q2075-03MS	Solid	SVOCMS Group3	Cool 4 deg C	CAMP02	L41	05/15/2025	8270E
Q2075-05	Q2075-03MSD	Solid	SVOCMS Group3	Cool 4 deg C	CAMP02	L41	05/15/2025	8270E
Q2075-06	SS-MW1-11.5	Solid	SVOCMS Group3	Cool 4 deg C	CAMP02	L41	05/16/2025	8270E
Q2080-01	PL-HRH-COMP-01	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	L31	05/19/2025	8270E
Q2080-07	PL-HRH-COMP-02	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	L31	05/19/2025	8270E

580 of 1178

Date/Time 05/20/25 9:40
Raw Sample Received by: RJ LEFT-(ccm)
Raw Sample Relinquished by:

Date/Time 05/20/25 10:05
Raw Sample Received by:
Raw Sample Relinquished by: RJ LEFT-(ccm)

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LAB CHRONICLE

OrderID:	Q2074	**OrderDate:**	5/16/2025 3:13:00 PM
Client:	CDM Smith	**Project:**	South River WM Replacement
Contact:	Marcie Ann Encinas	**Location:**	L31,VOA Ref. #2 Soil

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2074-01	**TP-12**	**SOIL**			**05/15/25**			**05/16/25**
			SVOC-TCL BNA -20	8270E		05/20/25	05/22/25	
Q2074-02	**TP-7**	**SOIL**			**05/15/25**			**05/16/25**
			SVOC-TCL BNA -20	8270E		05/20/25	05/21/25	
Q2074-03	**TP-15**	**SOIL**			**05/15/25**			**05/16/25**
			SVOC-TCL BNA -20	8270E		05/20/25	05/22/25	
Q2074-04	**TP-20**	**SOIL**			**05/15/25**			**05/16/25**
			SVOC-TCL BNA -20	8270E		05/20/25	05/21/25	
Q2074-05	**TP-38**	**SOIL**			**05/15/25**			**05/16/25**
			SVOC-TCL BNA -20	8270E		05/20/25	05/22/25	
Q2074-06	**TP-19**	**SOIL**			**05/15/25**			**05/16/25**
			SVOC-TCL BNA -20	8270E		05/20/25	05/21/25	
Q2074-07	**TP-40**	**SOIL**			**05/15/25**			**05/16/25**
			SVOC-TCL BNA -20	8270E		05/20/25	05/22/25	
Q2074-08	**TP-18**	**SOIL**			**05/16/25**			**05/16/25**
			SVOC-TCL BNA -20	8270E		05/20/25	05/22/25	

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Hit Summary Sheet
SW-846

SDG No.: Q2074 **Order ID:** Q2074

Client: CDM Smith **Project ID:** South River WM Replacement

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID : TP-12								
Q2074-01	TP-12	SOIL	Endosulfan Sulfate	1.60	JP	0.16	2.00	ug/kg
Q2074-01	TP-12	SOIL	4,4-DDT	0.60	JP	0.17	2.00	ug/kg
			Total Concentration:	**2.200**				
Client ID : TP-15								
Q2074-03	TP-15	SOIL	alpha-Chlordane	0.36	JP	0.14	1.90	ug/kg
			Total Concentration:	**0.360**				

SAMPLE DATA

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Report of Analysis

Client:	CDM Smith	Date Collected:	05/15/25
Project:	South River WM Replacement	Date Received:	05/16/25
Client Sample ID:	TP-12	SDG No.:	Q2074
Lab Sample ID:	Q2074-01	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	83.5 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
PD088661.D	1	05/20/25 08:45	05/20/25 17:38	PB168075

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
319-84-6	alpha-BHC	0.16	U	0.16	2.00	ug/kg
319-85-7	beta-BHC	0.22	U	0.22	2.00	ug/kg
319-86-8	delta-BHC	0.47	U	0.47	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	0.35	U	0.35	2.00	ug/kg
72-54-8	4,4-DDD	0.18	U	0.18	2.00	ug/kg
1031-07-8	Endosulfan Sulfate	1.60	JP	0.16	2.00	ug/kg
50-29-3	4,4-DDT	0.60	JP	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	6.50	U	6.50	39.5	ug/kg
SURROGATES						
2051-24-3	Decachlorobiphenyl	18.1		20 - 144	90%	SPK: 20
877-09-8	Tetrachloro-m-xylene	18.4		19 - 148	92%	SPK: 20

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Report of Analysis

Client:	CDM Smith	Date Collected:	05/15/25
Project:	South River WM Replacement	Date Received:	05/16/25
Client Sample ID:	TP-12	SDG No.:	Q2074
Lab Sample ID:	Q2074-01	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	83.5 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
PD088661.D	1	05/20/25 08:45	05/20/25 17:38	PB168075

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:	05/15/25
Project:	South River WM Replacement	Date Received:	05/16/25
Client Sample ID:	TP-7	SDG No.:	Q2074
Lab Sample ID:	Q2074-02	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	88.7 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
PD088662.D	1	05/20/25 08:45	05/20/25 17:52	PB168075

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	37.2	ug/kg
SURROGATES						
2051-24-3	Decachlorobiphenyl	20.0		20 - 144	100%	SPK: 20
877-09-8	Tetrachloro-m-xylene	21.8		19 - 148	109%	SPK: 20

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Report of Analysis

Client:	CDM Smith	Date Collected:	05/15/25
Project:	South River WM Replacement	Date Received:	05/16/25
Client Sample ID:	TP-7	SDG No.:	Q2074
Lab Sample ID:	Q2074-02	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	88.7 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
PD088662.D	1	05/20/25 08:45	05/20/25 17:52	PB168075

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

Comments:

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S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	CDM Smith	Date Collected:	05/15/25
Project:	South River WM Replacement	Date Received:	05/16/25
Client Sample ID:	TP-15	SDG No.:	Q2074
Lab Sample ID:	Q2074-03	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	87 Decanted:
Sample Wt/Vol:	30.08 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
PD088663.D	1	05/20/25 08:45	05/20/25 18:06	PB168075

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	0.21	U	0.21	1.90	ug/kg
319-86-8	delta-BHC	0.45	U	0.45	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	0.22	U	0.22	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	0.22	U	0.22	1.90	ug/kg
7421-93-4	Endrin aldehyde	0.42	U	0.42	1.90	ug/kg
5103-71-9	alpha-Chlordane	0.36	JP	0.14	1.90	ug/kg
5103-74-2	gamma-Chlordane	0.17	U	0.17	1.90	ug/kg
8001-35-2	Toxaphene	6.20	U	6.20	37.8	ug/kg
SURROGATES						
2051-24-3	Decachlorobiphenyl	13.3		20 - 144	67%	SPK: 20
877-09-8	Tetrachloro-m-xylene	18.6		19 - 148	93%	SPK: 20

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Report of Analysis

Client:	CDM Smith	Date Collected:	05/15/25
Project:	South River WM Replacement	Date Received:	05/16/25
Client Sample ID:	TP-15	SDG No.:	Q2074
Lab Sample ID:	Q2074-03	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	87 Decanted:
Sample Wt/Vol:	30.08 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
PD088663.D	1	05/20/25 08:45	05/20/25 18:06	PB168075

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
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S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	CDM Smith	Date Collected:	05/15/25
Project:	South River WM Replacement	Date Received:	05/16/25
Client Sample ID:	TP-20	SDG No.:	Q2074
Lab Sample ID:	Q2074-04	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	84.3 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
PD088664.D	1	05/20/25 08:45	05/20/25 18:19	PB168075

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	39.1	ug/kg
SURROGATES						
2051-24-3	Decachlorobiphenyl	16.6		20 - 144	83%	SPK: 20
877-09-8	Tetrachloro-m-xylene	19.0		19 - 148	95%	SPK: 20

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Report of Analysis

Client:	CDM Smith	Date Collected:	05/15/25
Project:	South River WM Replacement	Date Received:	05/16/25
Client Sample ID:	TP-20	SDG No.:	Q2074
Lab Sample ID:	Q2074-04	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	84.3 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
PD088664.D	1	05/20/25 08:45	05/20/25 18:19	PB168075

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
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N = Presumptive Evidence of a Compound
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Report of Analysis

Client:	CDM Smith	Date Collected:	05/15/25
Project:	South River WM Replacement	Date Received:	05/16/25
Client Sample ID:	TP-38	SDG No.:	Q2074
Lab Sample ID:	Q2074-05	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	81.9 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
PD088667.D	1	05/20/25 08:45	05/20/25 19:00	PB168075

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
319-84-6	alpha-BHC	0.16	U	0.16	2.10	ug/kg
319-85-7	beta-BHC	0.22	U	0.22	2.10	ug/kg
319-86-8	delta-BHC	0.48	U	0.48	2.10	ug/kg
58-89-9	gamma-BHC (Lindane)	0.17	U	0.17	2.10	ug/kg
76-44-8	Heptachlor	0.15	U	0.15	2.10	ug/kg
309-00-2	Aldrin	0.15	U	0.15	2.10	ug/kg
1024-57-3	Heptachlor epoxide	0.23	U	0.23	2.10	ug/kg
959-98-8	Endosulfan I	0.17	U	0.17	2.10	ug/kg
60-57-1	Dieldrin	0.17	U	0.17	2.10	ug/kg
72-55-9	4,4-DDE	0.17	U	0.17	2.10	ug/kg
72-20-8	Endrin	0.17	U	0.17	2.10	ug/kg
33213-65-9	Endosulfan II	0.35	U	0.35	2.10	ug/kg
72-54-8	4,4-DDD	0.18	U	0.18	2.10	ug/kg
1031-07-8	Endosulfan Sulfate	0.16	U	0.16	2.10	ug/kg
50-29-3	4,4-DDT	0.17	U	0.17	2.10	ug/kg
72-43-5	Methoxychlor	0.45	U	0.45	2.10	ug/kg
53494-70-5	Endrin ketone	0.23	U	0.23	2.10	ug/kg
7421-93-4	Endrin aldehyde	0.45	U	0.45	2.10	ug/kg
5103-71-9	alpha-Chlordane	0.15	U	0.15	2.10	ug/kg
5103-74-2	gamma-Chlordane	0.18	U	0.18	2.10	ug/kg
8001-35-2	Toxaphene	6.60	U	6.60	40.2	ug/kg
SURROGATES						
2051-24-3	Decachlorobiphenyl	14.1		20 - 144	70%	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:	05/15/25
Project:	South River WM Replacement	Date Received:	05/16/25
Client Sample ID:	TP-38	SDG No.:	Q2074
Lab Sample ID:	Q2074-05	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	81.9 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
PD088667.D	1	05/20/25 08:45	05/20/25 19:00	PB168075

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:	05/15/25
Project:	South River WM Replacement	Date Received:	05/16/25
Client Sample ID:	TP-19	SDG No.:	Q2074
Lab Sample ID:	Q2074-06	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	85.9 Decanted:
Sample Wt/Vol:	30.06 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
PD088668.D	1	05/20/25 08:45	05/20/25 19:14	PB168075

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	0.45	U	0.45	2.00	ug/kg
58-89-9	gamma-BHC (Lindane)	0.16	U	0.16	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	0.22	U	0.22	2.00	ug/kg
959-98-8	Endosulfan I	0.16	U	0.16	2.00	ug/kg
60-57-1	Dieldrin	0.16	U	0.16	2.00	ug/kg
72-55-9	4,4-DDE	0.16	U	0.16	2.00	ug/kg
72-20-8	Endrin	0.16	U	0.16	2.00	ug/kg
33213-65-9	Endosulfan II	0.34	U	0.34	2.00	ug/kg
72-54-8	4,4-DDD	0.17	U	0.17	2.00	ug/kg
1031-07-8	Endosulfan Sulfate	0.15	U	0.15	2.00	ug/kg
50-29-3	4,4-DDT	0.16	U	0.16	2.00	ug/kg
72-43-5	Methoxychlor	0.43	U	0.43	2.00	ug/kg
53494-70-5	Endrin ketone	0.22	U	0.22	2.00	ug/kg
7421-93-4	Endrin aldehyde	0.43	U	0.43	2.00	ug/kg
5103-71-9	alpha-Chlordane	0.14	U	0.14	2.00	ug/kg
5103-74-2	gamma-Chlordane	0.17	U	0.17	2.00	ug/kg
8001-35-2	Toxaphene	6.30	U	6.30	38.3	ug/kg
SURROGATES						
2051-24-3	Decachlorobiphenyl	15.7		20 - 144	78%	SPK: 20
877-09-8	Tetrachloro-m-xylene	18.5		19 - 148	92%	SPK: 20

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Report of Analysis

Client:	CDM Smith	Date Collected:	05/15/25
Project:	South River WM Replacement	Date Received:	05/16/25
Client Sample ID:	TP-19	SDG No.:	Q2074
Lab Sample ID:	Q2074-06	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	85.9 Decanted:
Sample Wt/Vol:	30.06 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
PD088668.D	1	05/20/25 08:45	05/20/25 19:14	PB168075

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
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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:	05/15/25
Project:	South River WM Replacement	Date Received:	05/16/25
Client Sample ID:	TP-40	SDG No.:	Q2074
Lab Sample ID:	Q2074-07	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	89.2 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
PD088669.D	1	05/20/25 08:45	05/20/25 19:28	PB168075

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	0.13	U	0.13	1.90	ug/kg
309-00-2	Aldrin	0.13	U	0.13	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	0.32	U	0.32	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	0.41	U	0.41	1.90	ug/kg
53494-70-5	Endrin ketone	0.21	U	0.21	1.90	ug/kg
7421-93-4	Endrin aldehyde	0.41	U	0.41	1.90	ug/kg
5103-71-9	alpha-Chlordane	0.13	U	0.13	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	36.9	ug/kg
SURROGATES						
2051-24-3	Decachlorobiphenyl	15.5		20 - 144	77%	SPK: 20
877-09-8	Tetrachloro-m-xylene	19.2		19 - 148	96%	SPK: 20

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Report of Analysis

Client:	CDM Smith	Date Collected:	05/15/25
Project:	South River WM Replacement	Date Received:	05/16/25
Client Sample ID:	TP-40	SDG No.:	Q2074
Lab Sample ID:	Q2074-07	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	89.2 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
PD088669.D	1	05/20/25 08:45	05/20/25 19:28	PB168075

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

Comments:

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MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
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Report of Analysis

Client:	CDM Smith	Date Collected:	05/16/25
Project:	South River WM Replacement	Date Received:	05/16/25
Client Sample ID:	TP-18	SDG No.:	Q2074
Lab Sample ID:	Q2074-08	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	78 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
PD088670.D	1	05/20/25 08:45	05/20/25 19:41	PB168075

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	0.15	U	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	42.3	ug/kg
SURROGATES						
2051-24-3	Decachlorobiphenyl	14.8		20 - 144	74%	SPK: 20
877-09-8	Tetrachloro-m-xylene	18.3		19 - 148	91%	SPK: 20

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Report of Analysis

Client:	CDM Smith	Date Collected:	05/16/25
Project:	South River WM Replacement	Date Received:	05/16/25
Client Sample ID:	TP-18	SDG No.:	Q2074
Lab Sample ID:	Q2074-08	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	78 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
PD088670.D	1	05/20/25 08:45	05/20/25 19:41	PB168075

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
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() = Laboratory InHouse Limit

QC SUMMARY

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Surrogate Summary

SDG No.: Q2074

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-PD088656.D	PIBLK-PD088656.D	Decachlorobiphenyl	1	20	18.2	91		43	140
		Tetrachloro-m-xylene	1	20	18.5	92		77	126
		Decachlorobiphenyl	2	20	17.1	85		43	140
		Tetrachloro-m-xylene	2	20	18.8	94		77	126
PB168075BL	PB168075BL	Decachlorobiphenyl	1	20	18.7	93		20	144
		Tetrachloro-m-xylene	1	20	17.4	87		19	148
		Decachlorobiphenyl	2	20	17.4	87		20	144
		Tetrachloro-m-xylene	2	20	19.1	95		19	148
PB168075BS	PB168075BS	Decachlorobiphenyl	1	20	24.6	123		20	144
		Tetrachloro-m-xylene	1	20	23.5	117		19	148
		Decachlorobiphenyl	2	20	23.8	119		20	144
		Tetrachloro-m-xylene	2	20	25.2	126		19	148
Q2074-01	TP-12	Decachlorobiphenyl	1	20	18.1	90		20	144
		Tetrachloro-m-xylene	1	20	17.4	87		19	148
		Decachlorobiphenyl	2	20	15.5	78		20	144
		Tetrachloro-m-xylene	2	20	18.4	92		19	148
Q2074-02	TP-7	Decachlorobiphenyl	1	20	20.0	100		20	144
		Tetrachloro-m-xylene	1	20	20.7	104		19	148
		Decachlorobiphenyl	2	20	17.7	88		20	144
		Tetrachloro-m-xylene	2	20	21.8	109		19	148
Q2074-03	TP-15	Decachlorobiphenyl	1	20	13.3	67		20	144
		Tetrachloro-m-xylene	1	20	17.7	88		19	148
		Decachlorobiphenyl	2	20	13.2	66		20	144
		Tetrachloro-m-xylene	2	20	18.6	93		19	148
Q2074-04	TP-20	Decachlorobiphenyl	1	20	16.6	83		20	144
		Tetrachloro-m-xylene	1	20	17.9	89		19	148
		Decachlorobiphenyl	2	20	15.4	77		20	144
		Tetrachloro-m-xylene	2	20	19.0	95		19	148
Q2074-04MS	TP-20MS	Decachlorobiphenyl	1	20	17.3	87		20	144
		Tetrachloro-m-xylene	1	20	17.8	89		19	148
		Decachlorobiphenyl	2	20	16.7	83		20	144
		Tetrachloro-m-xylene	2	20	19.6	98		19	148
Q2074-04MSD	TP-20MSD	Decachlorobiphenyl	1	20	17.6	88		20	144
		Tetrachloro-m-xylene	1	20	17.8	89		19	148
		Decachlorobiphenyl	2	20	16.5	83		20	144
		Tetrachloro-m-xylene	2	20	19.7	98		19	148
Q2074-05	TP-38	Decachlorobiphenyl	1	20	14.1	70		20	144

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Surrogate Summary

SDG No.: Q2074

Client: CDM Smith

Analytical Method: 8081B

Lab Sample ID	Client ID	Parameter	Column	Spike	Result	Rec	Qual	Limits Low	Limits High
Q2074-05	TP-38	Tetrachloro-m-xylene	1	20	16.7	83		19	148
		Decachlorobiphenyl	2	20	13.3	67		20	144
		Tetrachloro-m-xylene	2	20	17.6	88		19	148
Q2074-06	TP-19	Decachlorobiphenyl	1	20	15.7	78		20	144
		Tetrachloro-m-xylene	1	20	17.6	88		19	148
		Decachlorobiphenyl	2	20	14.6	73		20	144
		Tetrachloro-m-xylene	2	20	18.5	92		19	148
Q2074-07	TP-40	Decachlorobiphenyl	1	20	15.5	77		20	144
		Tetrachloro-m-xylene	1	20	18.5	93		19	148
		Decachlorobiphenyl	2	20	15.3	76		20	144
		Tetrachloro-m-xylene	2	20	19.2	96		19	148
Q2074-08	TP-18	Decachlorobiphenyl	1	20	14.8	74		20	144
		Tetrachloro-m-xylene	1	20	17.4	87		19	148
		Decachlorobiphenyl	2	20	14.1	70		20	144
		Tetrachloro-m-xylene	2	20	18.3	91		19	148
I.BLK-PD088673.D	PIBLK-PD088673.D	Decachlorobiphenyl	1	20	18.8	94		43	140
		Tetrachloro-m-xylene	1	20	18.4	92		77	126
		Decachlorobiphenyl	2	20	18.5	93		43	140
		Tetrachloro-m-xylene	2	20	19.1	96		77	126

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q2074 **Analytical Method:** 8081B

Client: CDM Smith **DataFile :** PD088665.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-20MS**											
Q2074-04MS (Column 1)	alpha-BHC	19.73	0	18.0	ug/kg	91				60	144	
	beta-BHC	19.73	0	16.5	ug/kg	84				54	143	
	delta-BHC	19.73	0	19.0	ug/kg	96				29	151	
	gamma-BHC (Lindane)	19.73	0	18.1	ug/kg	92				61	140	
	Heptachlor	19.73	0	17.4	ug/kg	88				63	135	
	Aldrin	19.73	0	18.0	ug/kg	91				49	139	
	Heptachlor epoxide	19.73	0	17.6	ug/kg	89				41	156	
	Endosulfan I	19.73	0	17.8	ug/kg	90				56	142	
	Dieldrin	19.73	0	17.6	ug/kg	89				47	161	
	4,4'-DDE	19.73	0	16.9	ug/kg	86				55	136	
	Endrin	19.73	0	17.2	ug/kg	87				57	139	
	Endosulfan II	19.73	0	17.2	ug/kg	87				40	163	
	4,4'-DDD	19.73	0	19.0	ug/kg	96				47	163	
	Endosulfan sulfate	19.73	0	16.9	ug/kg	86				62	139	
	4,4'-DDT	19.73	0	14.3	ug/kg	72				51	146	
	Methoxychlor	19.73	0	13.6	ug/kg	69				54	136	
	Endrin ketone	19.73	0	16.9	ug/kg	86				60	129	
	Endrin aldehyde	19.73	0	17.2	ug/kg	87				59	132	
	alpha-Chlordane	19.73	0	17.6	ug/kg	89				39	166	
	gamma-Chlordane	19.73	0	17.6	ug/kg	89				44	175	
Client Sample ID:	**TP-20MS**											
Q2074-04MS (Column 2)	alpha-BHC	19.73	0	18.1	ug/kg	92				60	144	
	beta-BHC	19.73	0	18.3	ug/kg	93				54	143	
	delta-BHC	19.73	0	17.8	ug/kg	90				29	151	
	gamma-BHC (Lindane)	19.73	0	17.8	ug/kg	90				61	140	
	Heptachlor	19.73	0	17.3	ug/kg	88				63	135	
	Aldrin	19.73	0	17.8	ug/kg	90				49	139	
	Heptachlor epoxide	19.73	0	17.5	ug/kg	89				41	156	
	Endosulfan I	19.73	0	16.4	ug/kg	83				56	142	
	Dieldrin	19.73	0	17.6	ug/kg	89				47	161	
	4,4'-DDE	19.73	0	17.1	ug/kg	87				55	136	
	Endrin	19.73	0	17.0	ug/kg	86				57	139	
	Endosulfan II	19.73	0	17.0	ug/kg	86				40	163	
	4,4'-DDD	19.73	0	17.4	ug/kg	88				47	163	
	Endosulfan sulfate	19.73	0	16.5	ug/kg	84				62	139	
	4,4'-DDT	19.73	0	14.0	ug/kg	71				51	146	

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q2074 **Analytical Method:** 8081B

Client: CDM Smith **DataFile :** PD088665.D

Lab Sample ID:	Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	Limits RPD
Q2074-04MS (Column 2)	Methoxychlor	19.73	0	14.4	ug/kg	73				54	136	
	Endrin ketone	19.73	0	16.2	ug/kg	82				60	129	
	Endrin aldehyde	19.73	0	16.7	ug/kg	85				59	132	
	alpha-Chlordane	19.73	0	17.4	ug/kg	88				39	166	
	gamma-Chlordane	19.73	0	17.5	ug/kg	89				44	175	

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q2074 **Analytical Method:** 8081B

Client: CDM Smith **DataFile :** PD088666.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-20MSD**											
Q2074-04MSD (Column 1)	alpha-BHC	19.72	0	17.9	ug/kg	91		0		60	144	20
	beta-BHC	19.72	0	16.4	ug/kg	83		1		54	143	20
	delta-BHC	19.72	0	18.8	ug/kg	95		1		29	151	20
	gamma-BHC (Lindane)	19.72	0	18.1	ug/kg	92		0		61	140	20
	Heptachlor	19.72	0	17.2	ug/kg	87		1		63	135	20
	Aldrin	19.72	0	17.9	ug/kg	91		0		49	139	20
	Heptachlor epoxide	19.72	0	17.5	ug/kg	89		0		41	156	20
	Endosulfan I	19.72	0	17.7	ug/kg	90		0		56	142	20
	Dieldrin	19.72	0	17.4	ug/kg	88		1		47	161	20
	4,4'-DDE	19.72	0	16.8	ug/kg	85		1		55	136	20
	Endrin	19.72	0	17.0	ug/kg	86		1		57	139	20
	Endosulfan II	19.72	0	17.0	ug/kg	86		1		40	163	20
	4,4'-DDD	19.72	0	18.9	ug/kg	96		0		47	163	20
	Endosulfan sulfate	19.72	0	16.8	ug/kg	85		1		62	139	20
	4,4'-DDT	19.72	0	14.0	ug/kg	71		1		51	146	20
	Methoxychlor	19.72	0	13.2	ug/kg	67		3		54	136	20
	Endrin ketone	19.72	0	16.9	ug/kg	86		0		60	129	20
	Endrin aldehyde	19.72	0	17.2	ug/kg	87		0		59	132	20
	alpha-Chlordane	19.72	0	17.5	ug/kg	89		0		39	166	20
	gamma-Chlordane	19.72	0	17.5	ug/kg	89		0		44	175	20
Client Sample ID:	**TP-20MSD**											
Q2074-04MSD (Column 2)	alpha-BHC	19.72	0	18.1	ug/kg	92		0		60	144	20
	beta-BHC	19.72	0	18.3	ug/kg	93		0		54	143	20
	delta-BHC	19.72	0	17.8	ug/kg	90		0		29	151	20
	gamma-BHC (Lindane)	19.72	0	17.8	ug/kg	90		0		61	140	20
	Heptachlor	19.72	0	17.2	ug/kg	87		1		63	135	20
	Aldrin	19.72	0	17.8	ug/kg	90		0		49	139	20
	Heptachlor epoxide	19.72	0	17.3	ug/kg	88		1		41	156	20
	Endosulfan I	19.72	0	16.3	ug/kg	83		0		56	142	20
	Dieldrin	19.72	0	17.5	ug/kg	89		0		47	161	20
	4,4'-DDE	19.72	0	16.9	ug/kg	86		1		55	136	20
	Endrin	19.72	0	16.9	ug/kg	86		0		57	139	20
	Endosulfan II	19.72	0	17.0	ug/kg	86		0		40	163	20
	4,4'-DDD	19.72	0	17.3	ug/kg	88		0		47	163	20
	Endosulfan sulfate	19.72	0	16.5	ug/kg	84		0		62	139	20
	4,4'-DDT	19.72	0	14.0	ug/kg	71		0		51	146	20

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q2074 **Analytical Method:** 8081B

Client: CDM Smith **DataFile :** PD088666.D

Lab Sample ID:	Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	Limits RPD
Q2074-04MSD (Column 2)	Methoxychlor	19.72	0	14.4	ug/kg	73		0		54	136	20
	Endrin ketone	19.72	0	16.1	ug/kg	82		0		60	129	20
	Endrin aldehyde	19.72	0	16.7	ug/kg	85		0		59	132	20
	alpha-Chlordane	19.72	0	17.3	ug/kg	88		0		39	166	20
	gamma-Chlordane	19.72	0	17.5	ug/kg	89		0		44	175	20

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2074 **Analytical Method:** 8081B

Client: CDM Smith **Datafile :** PD088660.D

Lab Sample ID	Parameter	Spike	Result	Units	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB168075BS (Column 1)	alpha-BHC	16.65	18.7	ug/kg	112				84	123	
	beta-BHC	16.65	18.1	ug/kg	109				82	123	
	delta-BHC	16.65	18.9	ug/kg	114				83	126	
	gamma-BHC (Lindane)	16.65	18.7	ug/kg	112				83	125	
	Heptachlor	16.65	18.4	ug/kg	111				83	122	
	Aldrin	16.65	18.9	ug/kg	114				82	124	
	Heptachlor epoxide	16.65	18.8	ug/kg	113				83	120	
	Endosulfan I	16.65	18.7	ug/kg	112				81	124	
	Dieldrin	16.65	18.8	ug/kg	113				85	121	
	4,4'-DDE	16.65	18.8	ug/kg	113				81	123	
	Endrin	16.65	18.5	ug/kg	111				76	130	
	Endosulfan II	16.65	18.4	ug/kg	111				80	125	
	4,4'-DDD	16.65	20.1	ug/kg	121				80	131	
	Endosulfan sulfate	16.65	17.9	ug/kg	108				81	122	
	4,4'-DDT	16.65	15.0	ug/kg	90				70	129	
	Methoxychlor	16.65	15.5	ug/kg	93				60	119	
	Endrin ketone	16.65	18.5	ug/kg	111				77	132	
	Endrin aldehyde	16.65	17.5	ug/kg	105				79	124	
	alpha-Chlordane	16.65	18.7	ug/kg	112				84	120	
	gamma-Chlordane	16.65	18.8	ug/kg	113				83	122	
PB168075BS (Column 2)	alpha-BHC	16.65	18.5	ug/kg	111				84	123	
	beta-BHC	16.65	18.3	ug/kg	110				82	123	
	delta-BHC	16.65	17.5	ug/kg	105				83	126	
	gamma-BHC (Lindane)	16.65	18.5	ug/kg	111				83	125	
	Heptachlor	16.65	17.6	ug/kg	106				83	122	
	Aldrin	16.65	18.8	ug/kg	113				82	124	
	Heptachlor epoxide	16.65	18.4	ug/kg	111				83	120	
	Endosulfan I	16.65	17.5	ug/kg	105				81	124	
	Dieldrin	16.65	18.3	ug/kg	110				85	121	
	4,4'-DDE	16.65	18.2	ug/kg	109				81	123	
	Endrin	16.65	18.0	ug/kg	108				76	130	
	Endosulfan II	16.65	18.0	ug/kg	108				80	125	
	4,4'-DDD	16.65	19.2	ug/kg	115				80	131	
	Endosulfan sulfate	16.65	17.3	ug/kg	104				81	122	
	4,4'-DDT	16.65	15.4	ug/kg	92				70	129	
	Methoxychlor	16.65	15.6	ug/kg	94				60	119	
	Endrin ketone	16.65	17.7	ug/kg	106				77	132	
	Endrin aldehyde	16.65	17.2	ug/kg	103				79	124	
	alpha-Chlordane	16.65	18.2	ug/kg	109				84	120	
	gamma-Chlordane	16.65	18.4	ug/kg	111				83	122	

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4C

PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB168075BL

Lab Name: CHEMTECH Contract: CAMP02

Lab Code: CHEM Case No.: Q2074 SAS No.: Q2074 SDG NO.: Q2074

Lab Sample ID: PB168075BL Lab File ID: PD088659.D

Matrix: (soil/water) Solid Extraction: (Type) SOXH

Sulfur Cleanup: (Y/N) N Date Extracted: 05/20/2025

Date Analyzed (1): 05/20/2025 Date Analyzed (2): 05/20/2025

Time Analyzed (1): 17:11 Time Analyzed (2): 17:11

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
PB168075BS	PB168075BS	PD088660.D	05/20/2025	05/20/2025
TP-12	Q2074-01	PD088661.D	05/20/2025	05/20/2025
TP-7	Q2074-02	PD088662.D	05/20/2025	05/20/2025
TP-15	Q2074-03	PD088663.D	05/20/2025	05/20/2025
TP-20	Q2074-04	PD088664.D	05/20/2025	05/20/2025
TP-20MS	Q2074-04MS	PD088665.D	05/20/2025	05/20/2025
TP-20MSD	Q2074-04MSD	PD088666.D	05/20/2025	05/20/2025
TP-38	Q2074-05	PD088667.D	05/20/2025	05/20/2025
TP-19	Q2074-06	PD088668.D	05/20/2025	05/20/2025
TP-40	Q2074-07	PD088669.D	05/20/2025	05/20/2025
TP-18	Q2074-08	PD088670.D	05/20/2025	05/20/2025

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:	PB168075BL	SDG No.:	Q2074
Lab Sample ID:	PB168075BL	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
PD088659.D	1	05/20/25 08:45	05/20/25 17:11	PB168075

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	18.7		20 - 144	93%	SPK: 20
877-09-8	Tetrachloro-m-xylene	19.1		19 - 148	95%	SPK: 20

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Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	PB168075BL	SDG No.:	Q2074
Lab Sample ID:	PB168075BL	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
PD088659.D	1	05/20/25 08:45	05/20/25 17:11	PB168075

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.:	Q2074
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.:	Q2074
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:	05/20/25
Project:	South River WM Replacement	Date Received:	05/20/25
Client Sample ID:	PIBLK-PD088656.D	SDG No.:	Q2074
Lab Sample ID:	I.BLK-PD088656.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
PD088656.D	1		05/20/25	PD052025

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	18.2		43 - 140	91%	SPK: 20
877-09-8	Tetrachloro-m-xylene	18.8		77 - 126	94%	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:	PIBLK-PD088656.D	SDG No.:	Q2074
Lab Sample ID:	I.BLK-PD088656.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
PD088656.D	1		05/20/25	PD052025

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:	PIBLK-PD088673.D	SDG No.:	Q2074
Lab Sample ID:	I.BLK-PD088673.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
PD088673.D	1		05/20/25	PD052025

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	18.8		43 - 140	94%	SPK: 20
877-09-8	Tetrachloro-m-xylene	19.1		77 - 126	96%	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:	PIBLK-PD088673.D	SDG No.:	Q2074
Lab Sample ID:	I.BLK-PD088673.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
PD088673.D	1		05/20/25	PD052025

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:	PB168075BS	SDG No.:	Q2074
Lab Sample ID:	PB168075BS	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
PD088660.D	1	05/20/25 08:45	05/20/25 17:25	PB168075

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
319-84-6	alpha-BHC	18.7		0.13	1.70	ug/kg
319-85-7	beta-BHC	18.3		0.18	1.70	ug/kg
319-86-8	delta-BHC	18.9		0.39	1.70	ug/kg
58-89-9	gamma-BHC (Lindane)	18.7		0.14	1.70	ug/kg
76-44-8	Heptachlor	18.4		0.12	1.70	ug/kg
309-00-2	Aldrin	18.9		0.12	1.70	ug/kg
1024-57-3	Heptachlor epoxide	18.8		0.19	1.70	ug/kg
959-98-8	Endosulfan I	18.7		0.14	1.70	ug/kg
60-57-1	Dieldrin	18.8		0.14	1.70	ug/kg
72-55-9	4,4-DDE	18.8		0.14	1.70	ug/kg
72-20-8	Endrin	18.5		0.14	1.70	ug/kg
33213-65-9	Endosulfan II	18.4		0.29	1.70	ug/kg
72-54-8	4,4-DDD	20.1		0.15	1.70	ug/kg
1031-07-8	Endosulfan Sulfate	17.9		0.13	1.70	ug/kg
50-29-3	4,4-DDT	15.4		0.14	1.70	ug/kg
72-43-5	Methoxychlor	15.6		0.37	1.70	ug/kg
53494-70-5	Endrin ketone	18.5		0.19	1.70	ug/kg
7421-93-4	Endrin aldehyde	17.5		0.37	1.70	ug/kg
5103-71-9	alpha-Chlordane	18.7		0.12	1.70	ug/kg
5103-74-2	gamma-Chlordane	18.8		0.15	1.70	ug/kg
8001-35-2	Toxaphene	5.40	U	5.40	33.0	ug/kg
SURROGATES						
2051-24-3	Decachlorobiphenyl	24.6		20 - 144	123%	SPK: 20
877-09-8	Tetrachloro-m-xylene	25.2		19 - 148	126%	SPK: 20

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Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	PB168075BS	SDG No.:	Q2074
Lab Sample ID:	PB168075BS	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
PD088660.D	1	05/20/25 08:45	05/20/25 17:25	PB168075

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
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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:	05/15/25
Project:	South River WM Replacement	Date Received:	05/16/25
Client Sample ID:	TP-20MS	SDG No.:	Q2074
Lab Sample ID:	Q2074-04MS	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	84.3 Decanted:
Sample Wt/Vol:	30.06 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
PD088665.D	1	05/20/25 08:45	05/20/25 18:33	PB168075

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
319-84-6	alpha-BHC	18.1		0.15	2.00	ug/kg
319-85-7	beta-BHC	18.3		0.21	2.00	ug/kg
319-86-8	delta-BHC	19.0		0.46	2.00	ug/kg
58-89-9	gamma-BHC (Lindane)	18.1		0.17	2.00	ug/kg
76-44-8	Heptachlor	17.4		0.14	2.00	ug/kg
309-00-2	Aldrin	18.0		0.14	2.00	ug/kg
1024-57-3	Heptachlor epoxide	17.6		0.22	2.00	ug/kg
959-98-8	Endosulfan I	17.8		0.17	2.00	ug/kg
60-57-1	Dieldrin	17.6		0.17	2.00	ug/kg
72-55-9	4,4-DDE	17.1		0.17	2.00	ug/kg
72-20-8	Endrin	17.2		0.17	2.00	ug/kg
33213-65-9	Endosulfan II	17.2		0.34	2.00	ug/kg
72-54-8	4,4-DDD	19.0		0.18	2.00	ug/kg
1031-07-8	Endosulfan Sulfate	16.9		0.15	2.00	ug/kg
50-29-3	4,4-DDT	14.3		0.17	2.00	ug/kg
72-43-5	Methoxychlor	14.4		0.44	2.00	ug/kg
53494-70-5	Endrin ketone	16.9		0.22	2.00	ug/kg
7421-93-4	Endrin aldehyde	17.2		0.44	2.00	ug/kg
5103-71-9	alpha-Chlordane	17.6		0.14	2.00	ug/kg
5103-74-2	gamma-Chlordane	17.6		0.18	2.00	ug/kg
8001-35-2	Toxaphene	6.40	U	6.40	39.1	ug/kg
SURROGATES						
2051-24-3	Decachlorobiphenyl	17.3		20 - 144	87%	SPK: 20
877-09-8	Tetrachloro-m-xylene	19.6		19 - 148	98%	SPK: 20

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Report of Analysis

Client:	CDM Smith	Date Collected:	05/15/25
Project:	South River WM Replacement	Date Received:	05/16/25
Client Sample ID:	TP-20MS	SDG No.:	Q2074
Lab Sample ID:	Q2074-04MS	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	84.3 Decanted:
Sample Wt/Vol:	30.06 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
PD088665.D	1	05/20/25 08:45	05/20/25 18:33	PB168075

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
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Report of Analysis

Client:	CDM Smith	Date Collected:	05/15/25
Project:	South River WM Replacement	Date Received:	05/16/25
Client Sample ID:	TP-20MSD	SDG No.:	Q2074
Lab Sample ID:	Q2074-04MSD	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	84.3 Decanted:
Sample Wt/Vol:	30.08 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
PD088666.D	1	05/20/25 08:45	05/20/25 18:47	PB168075

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
319-84-6	alpha-BHC	18.1		0.15	2.00	ug/kg
319-85-7	beta-BHC	18.3		0.21	2.00	ug/kg
319-86-8	delta-BHC	18.8		0.46	2.00	ug/kg
58-89-9	gamma-BHC (Lindane)	18.1		0.17	2.00	ug/kg
76-44-8	Heptachlor	17.2		0.14	2.00	ug/kg
309-00-2	Aldrin	17.9		0.14	2.00	ug/kg
1024-57-3	Heptachlor epoxide	17.5		0.22	2.00	ug/kg
959-98-8	Endosulfan I	17.7		0.17	2.00	ug/kg
60-57-1	Dieldrin	17.5		0.17	2.00	ug/kg
72-55-9	4,4-DDE	16.9		0.17	2.00	ug/kg
72-20-8	Endrin	17.0		0.17	2.00	ug/kg
33213-65-9	Endosulfan II	17.0		0.34	2.00	ug/kg
72-54-8	4,4-DDD	18.9		0.18	2.00	ug/kg
1031-07-8	Endosulfan Sulfate	16.8		0.15	2.00	ug/kg
50-29-3	4,4-DDT	14.0		0.17	2.00	ug/kg
72-43-5	Methoxychlor	14.4		0.44	2.00	ug/kg
53494-70-5	Endrin ketone	16.9		0.22	2.00	ug/kg
7421-93-4	Endrin aldehyde	17.2		0.44	2.00	ug/kg
5103-71-9	alpha-Chlordane	17.5		0.14	2.00	ug/kg
5103-74-2	gamma-Chlordane	17.5		0.18	2.00	ug/kg
8001-35-2	Toxaphene	6.40	U	6.40	39.0	ug/kg
SURROGATES						
2051-24-3	Decachlorobiphenyl	17.6		20 - 144	88%	SPK: 20
877-09-8	Tetrachloro-m-xylene	19.7		19 - 148	98%	SPK: 20

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Report of Analysis

Client:	CDM Smith	Date Collected:	05/15/25
Project:	South River WM Replacement	Date Received:	05/16/25
Client Sample ID:	TP-20MSD	SDG No.:	Q2074
Lab Sample ID:	Q2074-04MSD	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	84.3 Decanted:
Sample Wt/Vol:	30.08 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
PD088666.D	1	05/20/25 08:45	05/20/25 18:47	PB168075

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

Comments:

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CALIBRATION SUMMARY

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RETENTION TIMES OF INITIAL CALIBRATION

Contract: CAMP02

Lab Code: CHEM **Case No.:** Q2074 **SAS No.:** Q2074 **SDG NO.:** Q2074

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.:** Q2074 **SAS No.:** Q2074 **SDG NO.:** Q2074

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.:** Q2074 **SAS No.:** Q2074 **SDG NO.:** Q2074

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.:** Q2074 **SAS No.:** Q2074 **SDG NO.:** Q2074

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.:** Q2074 **SAS No.:** Q2074 **SDG NO.:** Q2074

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.:** Q2074 **SAS No.:** Q2074 **SDG NO.:** Q2074

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.:** Q2074 **SAS No.:** Q2074 **SDG NO.:** Q2074

Continuing Calib Date: 05/20/2025 **Initial Calibration Date(s):** 05/19/2025 05/19/2025

Continuing Calib Time: 16:57 **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	0.00
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.:** Q2074 **SAS No.:** Q2074 **SDG NO.:** Q2074

Continuing Calib Date: 05/20/2025 **Initial Calibration Date(s):** 05/19/2025 05/19/2025

Continuing Calib Time: 16:57 **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	8.08	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	4.09	4.09	3.99	4.19	0.00
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.:** Q2074 **SAS No.:** Q2074 **SDG NO.:** Q2074

GC Column: ZB-MR1 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 05/19/2025 05/19/2025

Client Sample No.: CCAL01 **Date Analyzed:** 05/20/2025

Lab Sample No.: PSTDCCC050 **Data File :** PD088658.D **Time Analyzed:** 16:57

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
4,4'-DDD	6.707	6.608	6.808	53.280	50.000	6.6
4,4'-DDE	6.197	6.098	6.298	50.230	50.000	0.5
4,4'-DDT	7.022	6.923	7.123	41.180	50.000	-17.6
Aldrin	5.273	5.173	5.373	51.710	50.000	3.4
alpha-BHC	4.001	3.900	4.100	52.930	50.000	5.9
alpha-Chlordane	6.029	5.930	6.130	50.580	50.000	1.2
beta-BHC	4.517	4.417	4.617	50.950	50.000	1.9
Decachlorobiphenyl	9.077	8.977	9.177	52.040	50.000	4.1
delta-BHC	4.765	4.666	4.866	54.910	50.000	9.8
Dieldrin	6.349	6.250	6.450	50.690	50.000	1.4
Endosulfan I	6.076	5.977	6.177	50.220	50.000	0.4
Endosulfan II	6.788	6.688	6.888	48.520	50.000	-3.0
Endosulfan sulfate	7.151	7.052	7.252	49.860	50.000	-0.3
Endrin	6.576	6.477	6.677	50.030	50.000	0.1
Endrin aldehyde	6.917	6.817	7.017	46.700	50.000	-6.6
Endrin ketone	7.633	7.533	7.733	49.030	50.000	-1.9
gamma-BHC (Lindane)	4.332	4.232	4.432	52.290	50.000	4.6
gamma-Chlordane	5.948	5.848	6.048	50.900	50.000	1.8
Heptachlor	4.931	4.832	5.032	50.650	50.000	1.3
Heptachlor epoxide	5.693	5.593	5.793	50.950	50.000	1.9
Methoxychlor	7.495	7.395	7.595	41.930	50.000	-16.1
Tetrachloro-m-xylene	3.551	3.451	3.651	56.870	50.000	13.7

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CALIBRATION VERIFICATION SUMMARY

Contract: CAMP02

Lab Code: CHEM **Case No.:** Q2074 **SAS No.:** Q2074 **SDG NO.:** Q2074

GC Column: ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 05/19/2025 05/19/2025

Client Sample No.: CCAL01 **Date Analyzed:** 05/20/2025

Lab Sample No.: PSTDCCC050 **Data File :** PD088658.D **Time Analyzed:** 16:57

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
4,4'-DDD	5.932	5.833	6.033	50.370	50.000	0.7
4,4'-DDE	5.375	5.278	5.478	48.790	50.000	-2.4
4,4'-DDT	6.185	6.087	6.287	43.570	50.000	-12.9
Aldrin	4.370	4.271	4.471	51.230	50.000	2.5
alpha-BHC	3.394	3.294	3.494	51.270	50.000	2.5
alpha-Chlordane	5.192	5.094	5.294	49.000	50.000	-2.0
beta-BHC	4.027	3.927	4.127	50.530	50.000	1.1
Decachlorobiphenyl	8.075	7.977	8.177	48.390	50.000	-3.2
delta-BHC	4.264	4.164	4.364	50.860	50.000	1.7
Dieldrin	5.514	5.416	5.616	48.540	50.000	-2.9
Endosulfan I	5.248	5.150	5.350	46.230	50.000	-7.5
Endosulfan II	6.082	5.984	6.184	48.690	50.000	-2.6
Endosulfan sulfate	6.484	6.386	6.586	47.050	50.000	-5.9
Endrin	5.791	5.692	5.892	48.650	50.000	-2.7
Endrin aldehyde	6.260	6.162	6.362	46.280	50.000	-7.4
Endrin ketone	6.993	6.895	7.095	47.210	50.000	-5.6
gamma-BHC (Lindane)	3.731	3.631	3.831	50.790	50.000	1.6
gamma-Chlordane	5.127	5.029	5.229	49.950	50.000	-0.1
Heptachlor	4.085	3.985	4.185	48.750	50.000	-2.5
Heptachlor epoxide	4.874	4.775	4.975	49.450	50.000	-1.1
Methoxychlor	6.756	6.658	6.858	44.530	50.000	-10.9
Tetrachloro-m-xylene	2.882	2.782	2.982	56.190	50.000	12.4

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CALIBRATION VERIFICATION SUMMARY

Contract: CAMP02

Lab Code: CHEM **Case No.:** Q2074 **SAS No.:** Q2074 **SDG NO.:** Q2074

Continuing Calib Date: 05/20/2025 **Initial Calibration Date(s):** 05/19/2025 05/19/2025

Continuing Calib Time: 20:36 **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	0.01
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	0.00
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	7.49	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.:** Q2074 **SAS No.:** Q2074 **SDG NO.:** Q2074

Continuing Calib Date: 05/20/2025 **Initial Calibration Date(s):** 05/19/2025 05/19/2025

Continuing Calib Time: 20:36 **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.:** Q2074 **SAS No.:** Q2074 **SDG NO.:** Q2074

GC Column: ZB-MR1 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 05/19/2025 05/19/2025

Client Sample No.: CCAL02 **Date Analyzed:** 05/20/2025

Lab Sample No.: PSTDCCC050 **Data File :** PD088674.D **Time Analyzed:** 20:36

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
4,4'-DDD	6.706	6.608	6.808	54.060	50.000	8.1
4,4'-DDE	6.197	6.098	6.298	50.980	50.000	2.0
4,4'-DDT	7.021	6.923	7.123	42.100	50.000	-15.8
Aldrin	5.273	5.173	5.373	52.660	50.000	5.3
alpha-BHC	4.001	3.900	4.100	53.540	50.000	7.1
alpha-Chlordane	6.028	5.930	6.130	51.370	50.000	2.7
beta-BHC	4.516	4.417	4.617	51.570	50.000	3.1
Decachlorobiphenyl	9.075	8.977	9.177	53.190	50.000	6.4
delta-BHC	4.765	4.666	4.866	55.920	50.000	11.8
Dieldrin	6.348	6.250	6.450	51.610	50.000	3.2
Endosulfan I	6.076	5.977	6.177	51.080	50.000	2.2
Endosulfan II	6.787	6.688	6.888	49.400	50.000	-1.2
Endosulfan sulfate	7.151	7.052	7.252	50.980	50.000	2.0
Endrin	6.576	6.477	6.677	50.860	50.000	1.7
Endrin aldehyde	6.916	6.817	7.017	48.290	50.000	-3.4
Endrin ketone	7.631	7.533	7.733	50.150	50.000	0.3
gamma-BHC (Lindane)	4.332	4.232	4.432	52.830	50.000	5.7
gamma-Chlordane	5.947	5.848	6.048	51.770	50.000	3.5
Heptachlor	4.931	4.832	5.032	51.470	50.000	2.9
Heptachlor epoxide	5.692	5.593	5.793	51.690	50.000	3.4
Methoxychlor	7.494	7.395	7.595	43.420	50.000	-13.2
Tetrachloro-m-xylene	3.551	3.451	3.651	57.440	50.000	14.9

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CALIBRATION VERIFICATION SUMMARY

Contract: CAMP02

Lab Code: CHEM **Case No.:** Q2074 **SAS No.:** Q2074 **SDG NO.:** Q2074

GC Column: ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 05/19/2025 05/19/2025

Client Sample No.: CCAL02 **Date Analyzed:** 05/20/2025

Lab Sample No.: PSTDCCC050 **Data File :** PD088674.D **Time Analyzed:** 20:36

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
4,4'-DDD	5.931	5.833	6.033	51.370	50.000	2.7
4,4'-DDE	5.375	5.278	5.478	49.730	50.000	-0.5
4,4'-DDT	6.185	6.087	6.287	44.760	50.000	-10.5
Aldrin	4.370	4.271	4.471	51.920	50.000	3.8
alpha-BHC	3.394	3.294	3.494	51.880	50.000	3.8
alpha-Chlordane	5.192	5.094	5.294	49.900	50.000	-0.2
beta-BHC	4.026	3.927	4.127	51.430	50.000	2.9
Decachlorobiphenyl	8.074	7.977	8.177	50.710	50.000	1.4
delta-BHC	4.263	4.164	4.364	51.610	50.000	3.2
Dieldrin	5.514	5.416	5.616	49.340	50.000	-1.3
Endosulfan I	5.248	5.150	5.350	46.770	50.000	-6.5
Endosulfan II	6.082	5.984	6.184	49.660	50.000	-0.7
Endosulfan sulfate	6.483	6.386	6.586	48.120	50.000	-3.8
Endrin	5.791	5.692	5.892	49.400	50.000	-1.2
Endrin aldehyde	6.260	6.162	6.362	47.470	50.000	-5.1
Endrin ketone	6.993	6.895	7.095	48.220	50.000	-3.6
gamma-BHC (Lindane)	3.731	3.631	3.831	51.590	50.000	3.2
gamma-Chlordane	5.127	5.029	5.229	50.730	50.000	1.5
Heptachlor	4.084	3.985	4.185	49.920	50.000	-0.2
Heptachlor epoxide	4.874	4.775	4.975	50.390	50.000	0.8
Methoxychlor	6.756	6.658	6.858	45.850	50.000	-8.3
Tetrachloro-m-xylene	2.882	2.782	2.982	56.890	50.000	13.8

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PESTICIDE CALIBRATION VERIFICATION SUMMARY

Contract: CAMP02

Lab Code: CHEM **Case No.:** Q2074 **SAS No.:** Q2074 **SDG NO.:** Q2074

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.:** Q2074 **SAS No.:** Q2074 **SDG NO.:** Q2074

GC Column: ZB-MR1 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 05/19/2025 05/19/2025

Client Sample No. (PEM): PEM - PD088657.D **Date Analyzed:** 05/20/2025

Lab Sample No.(PEM): PEM **Time Analyzed:** 16:44

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	9.077	8.980	9.180	21.780	20.000	8.9
Tetrachloro-m-xylene	3.552	3.500	3.600	22.090	20.000	10.5
alpha-BHC	4.001	3.950	4.050	10.000	10.000	0.0
beta-BHC	4.517	4.470	4.570	11.090	10.000	10.9
gamma-BHC (Lindane)	4.332	4.280	4.380	10.270	10.000	2.7
Endrin	6.577	6.510	6.650	53.440	50.000	6.9
4,4'-DDT	7.023	6.950	7.090	88.320	100.000	-11.7
Methoxychlor	7.496	7.430	7.570	209.710	250.000	-16.1

GC Column: ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 05/19/2025 05/19/2025

Client Sample No. (PEM): PEM - PD088657.D **Date Analyzed:** 05/20/2025

Lab Sample No.(PEM): PEM **Time Analyzed:** 16:44

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	8.074	7.970	8.170	19.920	20.000	-0.4
Tetrachloro-m-xylene	2.882	2.830	2.930	22.770	20.000	13.9
alpha-BHC	3.394	3.340	3.440	11.730	10.000	17.3
beta-BHC	4.027	3.980	4.080	11.680	10.000	16.8
gamma-BHC (Lindane)	3.731	3.680	3.780	11.730	10.000	17.3
Endrin	5.792	5.720	5.860	51.130	50.000	2.3
4,4'-DDT	6.185	6.110	6.260	83.500	100.000	-16.5
Methoxychlor	6.756	6.690	6.830	179.890	250.000	-28.0

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Analytical Sequence

Client: CDM Smith **SDG No.:** Q2074

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
I.BLK	I.BLK	05/20/2025	16:30	PD088656.D	9.08	3.55
PEM	PEM	05/20/2025	16:44	PD088657.D	9.08	3.55
PSTDCCC050	PSTDCCC050	05/20/2025	16:57	PD088658.D	9.08	3.55
PB168075BL	PB168075BL	05/20/2025	17:11	PD088659.D	9.08	3.55
PB168075BS	PB168075BS	05/20/2025	17:25	PD088660.D	9.08	3.55
TP-12	Q2074-01	05/20/2025	17:38	PD088661.D	9.08	3.55
TP-7	Q2074-02	05/20/2025	17:52	PD088662.D	9.08	3.55
TP-15	Q2074-03	05/20/2025	18:06	PD088663.D	9.08	3.55
TP-20	Q2074-04	05/20/2025	18:19	PD088664.D	9.08	3.55
TP-20MS	Q2074-04MS	05/20/2025	18:33	PD088665.D	9.08	3.55
TP-20MSD	Q2074-04MSD	05/20/2025	18:47	PD088666.D	9.08	3.55
TP-38	Q2074-05	05/20/2025	19:00	PD088667.D	9.08	3.55
TP-19	Q2074-06	05/20/2025	19:14	PD088668.D	9.08	3.55
TP-40	Q2074-07	05/20/2025	19:28	PD088669.D	9.08	3.55
TP-18	Q2074-08	05/20/2025	19:41	PD088670.D	9.08	3.55
I.BLK	I.BLK	05/20/2025	20:22	PD088673.D	9.08	3.55
PSTDCCC050	PSTDCCC050	05/20/2025	20:36	PD088674.D	9.08	3.55

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Analytical Sequence

Client: CDM Smith **SDG No.:** Q2074

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
I.BLK	I.BLK	05/20/2025	16:30	PD088656.D	8.08	2.88
PEM	PEM	05/20/2025	16:44	PD088657.D	8.07	2.88
PSTDCCC050	PSTDCCC050	05/20/2025	16:57	PD088658.D	8.08	2.88
PB168075BL	PB168075BL	05/20/2025	17:11	PD088659.D	8.07	2.88
PB168075BS	PB168075BS	05/20/2025	17:25	PD088660.D	8.08	2.88
TP-12	Q2074-01	05/20/2025	17:38	PD088661.D	8.07	2.88
TP-7	Q2074-02	05/20/2025	17:52	PD088662.D	8.07	2.88
TP-15	Q2074-03	05/20/2025	18:06	PD088663.D	8.07	2.88
TP-20	Q2074-04	05/20/2025	18:19	PD088664.D	8.07	2.88
TP-20MS	Q2074-04MS	05/20/2025	18:33	PD088665.D	8.08	2.88
TP-20MSD	Q2074-04MSD	05/20/2025	18:47	PD088666.D	8.07	2.88
TP-38	Q2074-05	05/20/2025	19:00	PD088667.D	8.08	2.88
TP-19	Q2074-06	05/20/2025	19:14	PD088668.D	8.07	2.88
TP-40	Q2074-07	05/20/2025	19:28	PD088669.D	8.07	2.88
TP-18	Q2074-08	05/20/2025	19:41	PD088670.D	8.07	2.88
I.BLK	I.BLK	05/20/2025	20:22	PD088673.D	8.08	2.88
PSTDCCC050	PSTDCCC050	05/20/2025	20:36	PD088674.D	8.07	2.88

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COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.
PB168075BS

Contract: CAMP02

Lab Code: CHEM **Case No.:** Q2074 **SAS No.:** Q2074 **SDG NO.:** Q2074

Lab Sample ID: PB168075BS **Date(s) Analyzed:** 05/20/2025 05/20/2025

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	18.4	2.2
	2	6.08	6.03	6.13	18.0	
4,4'-DDD	1	6.71	6.66	6.76	20.1	4.6
	2	5.93	5.88	5.98	19.2	
4,4'-DDT	1	7.02	6.97	7.07	15.0	2.6
	2	6.19	6.14	6.24	15.4	
Endrin aldehyde	1	6.92	6.87	6.97	17.5	1.7
	2	6.26	6.21	6.31	17.2	
Endosulfan sulfate	1	7.15	7.10	7.20	17.9	3.4
	2	6.48	6.43	6.53	17.3	
alpha-BHC	1	4.00	3.95	4.05	18.7	1.1
	2	3.39	3.34	3.44	18.5	
Aldrin	1	5.27	5.22	5.32	18.9	0.5
	2	4.37	4.32	4.42	18.8	
beta-BHC	1	4.52	4.47	4.57	18.1	1.1
	2	4.03	3.98	4.08	18.3	
delta-BHC	1	4.77	4.72	4.82	18.9	7.7
	2	4.26	4.21	4.31	17.5	
Endosulfan I	1	6.08	6.03	6.13	18.7	6.6
	2	5.25	5.20	5.30	17.5	
alpha-Chlordane	1	6.03	5.98	6.08	18.7	2.7
	2	5.19	5.14	5.24	18.2	
4,4'-DDE	1	6.20	6.15	6.25	18.8	3.2
	2	5.38	5.33	5.43	18.2	
Dieldrin	1	6.35	6.30	6.40	18.8	2.7
	2	5.52	5.47	5.57	18.3	
Endrin	1	6.58	6.53	6.63	18.5	2.7
	2	5.79	5.74	5.84	18.0	

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COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.
PB168075BS

Contract: CAMP02

Lab Code: CHEM **Case No.:** Q2074 **SAS No.:** Q2074 **SDG NO.:** Q2074

Lab Sample ID: PB168075BS **Date(s) Analyzed:** 05/20/2025 05/20/2025

Instrument ID (1): ECD_D **Instrument ID (2):** ECD_D

GC Column: (1): ZB-MR1 **ID:** 0.32 (mm) **GC Column:(2):** ZB-MR2 **ID:** 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%RPD
Methoxychlor	1	7.50	7.45	7.55	15.5	0.6
	2	6.76	6.71	6.81	15.6	
Endrin ketone	1	7.63	7.58	7.68	18.5	4.4
	2	6.99	6.94	7.04	17.7	
gamma-BHC (Lindane)	1	4.33	4.28	4.38	18.7	1.1
	2	3.73	3.68	3.78	18.5	
Heptachlor	1	4.93	4.88	4.98	18.4	4.4
	2	4.09	4.04	4.14	17.6	
Heptachlor epoxide	1	5.69	5.64	5.74	18.8	2.2
	2	4.88	4.83	4.93	18.4	
gamma-Chlordane	1	5.95	5.90	6.00	18.8	2.2
	2	5.13	5.08	5.18	18.4	

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Fax : 908 789 8922

COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

TP-12

Contract: CAMP02

Lab Code: CHEM **Case No.:** Q2074 **SAS No.:** Q2074 **SDG NO.:** Q2074

Lab Sample ID: Q2074-01 **Date(s) Analyzed:** 05/20/2025 05/20/2025

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
4,4'-DDT	1	7.03	6.98	7.08	0.18	106.6
	2	6.18	6.13	6.23	0.60	
Endosulfan sulfate	1	7.15	7.10	7.20	0.79	68.3
	2	6.50	6.45	6.55	1.60	

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COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

TP-15

Contract: CAMP02

Lab Code: CHEM **Case No.:** Q2074 **SAS No.:** Q2074 **SDG NO.:** Q2074

Lab Sample ID: Q2074-03 **Date(s) Analyzed:** 05/20/2025 05/20/2025

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	6.04	5.99	6.09	0.36	67.6
	2	5.19	5.14	5.24	0.18	

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COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

TP-20MS

Contract: CAMP02

Lab Code: CHEM **Case No.:** Q2074 **SAS No.:** Q2074 **SDG NO.:** Q2074

Lab Sample ID: Q2074-04MS **Date(s) Analyzed:** 05/20/2025 05/20/2025

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	17.2	1.2
	2	6.08	6.03	6.13	17.0	
4,4'-DDD	1	6.71	6.66	6.76	19.0	8.8
	2	5.93	5.88	5.98	17.4	
4,4'-DDT	1	7.02	6.97	7.07	14.3	2.1
	2	6.19	6.14	6.24	14.0	
Endrin aldehyde	1	6.92	6.87	6.97	17.2	2.9
	2	6.26	6.21	6.31	16.7	
Endosulfan sulfate	1	7.15	7.10	7.20	16.9	2.4
	2	6.48	6.43	6.53	16.5	
Methoxychlor	1	7.50	7.45	7.55	13.6	5.7
	2	6.76	6.71	6.81	14.4	
Endrin ketone	1	7.63	7.58	7.68	16.9	4.2
	2	6.99	6.94	7.04	16.2	
alpha-BHC	1	4.00	3.95	4.05	18.0	0.6
	2	3.39	3.34	3.44	18.1	
gamma-BHC (Lindane)	1	4.33	4.28	4.38	18.1	1.7
	2	3.73	3.68	3.78	17.8	
Heptachlor	1	4.93	4.88	4.98	17.4	0.6
	2	4.08	4.03	4.13	17.3	
Aldrin	1	5.27	5.22	5.32	18.0	1.1
	2	4.37	4.32	4.42	17.8	
beta-BHC	1	4.52	4.47	4.57	16.5	10.3
	2	4.03	3.98	4.08	18.3	
delta-BHC	1	4.77	4.72	4.82	19.0	6.5
	2	4.26	4.21	4.31	17.8	
Heptachlor epoxide	1	5.69	5.64	5.74	17.6	0.6
	2	4.87	4.82	4.92	17.5	

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COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

TP-20MS

Contract: CAMP02

Lab Code: CHEM **Case No.:** Q2074 **SAS No.:** Q2074 **SDG NO.:** Q2074

Lab Sample ID: Q2074-04MS **Date(s) Analyzed:** 05/20/2025 05/20/2025

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	17.8	8.2
	2	5.25	5.20	5.30	16.4	
gamma-Chlordane	1	5.95	5.90	6.00	17.6	0.6
	2	5.13	5.08	5.18	17.5	
alpha-Chlordane	1	6.03	5.98	6.08	17.6	1.1
	2	5.19	5.14	5.24	17.4	
4,4'-DDE	1	6.20	6.15	6.25	16.9	1.2
	2	5.38	5.33	5.43	17.1	
Dieldrin	1	6.35	6.30	6.40	17.6	0
	2	5.52	5.47	5.57	17.6	
Endrin	1	6.58	6.53	6.63	17.2	1.2
	2	5.79	5.74	5.84	17.0	

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COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

TP-20MSD

Contract: CAMP02

Lab Code: CHEM **Case No.:** Q2074 **SAS No.:** Q2074 **SDG NO.:** Q2074

Lab Sample ID: Q2074-04MSD **Date(s) Analyzed:** 05/20/2025 05/20/2025

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	17.0	0
	2	6.08	6.03	6.13	17.0	
4,4'-DDD	1	6.71	6.66	6.76	18.9	8.8
	2	5.93	5.88	5.98	17.3	
4,4'-DDT	1	7.02	6.97	7.07	14.0	0
	2	6.19	6.14	6.24	14.0	
Endrin aldehyde	1	6.92	6.87	6.97	17.2	2.9
	2	6.26	6.21	6.31	16.7	
Endosulfan sulfate	1	7.15	7.10	7.20	16.8	1.8
	2	6.48	6.43	6.53	16.5	
Methoxychlor	1	7.50	7.45	7.55	13.2	8.7
	2	6.75	6.70	6.80	14.4	
Endrin ketone	1	7.63	7.58	7.68	16.9	4.8
	2	6.99	6.94	7.04	16.1	
alpha-BHC	1	4.00	3.95	4.05	17.9	1.1
	2	3.39	3.34	3.44	18.1	
gamma-BHC (Lindane)	1	4.33	4.28	4.38	18.1	1.7
	2	3.73	3.68	3.78	17.8	
Heptachlor	1	4.93	4.88	4.98	17.2	0
	2	4.08	4.03	4.13	17.2	
Aldrin	1	5.27	5.22	5.32	17.9	0.6
	2	4.37	4.32	4.42	17.8	
beta-BHC	1	4.52	4.47	4.57	16.4	11
	2	4.03	3.98	4.08	18.3	
delta-BHC	1	4.77	4.72	4.82	18.8	5.5
	2	4.26	4.21	4.31	17.8	
Heptachlor epoxide	1	5.69	5.64	5.74	17.5	1.1
	2	4.87	4.82	4.92	17.3	

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COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

TP-20MSD

Contract: CAMP02

Lab Code: CHEM **Case No.:** Q2074 **SAS No.:** Q2074 **SDG NO.:** Q2074

Lab Sample ID: Q2074-04MSD **Date(s) Analyzed:** 05/20/2025 05/20/2025

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	17.7	8.2
	2	5.25	5.20	5.30	16.3	
gamma-Chlordane	1	5.95	5.90	6.00	17.5	0
	2	5.13	5.08	5.18	17.5	
alpha-Chlordane	1	6.03	5.98	6.08	17.5	1.1
	2	5.19	5.14	5.24	17.3	
4,4'-DDE	1	6.20	6.15	6.25	16.8	0.6
	2	5.38	5.33	5.43	16.9	
Dieldrin	1	6.35	6.30	6.40	17.4	0.6
	2	5.51	5.46	5.56	17.5	
Endrin	1	6.58	6.53	6.63	17.0	0.6
	2	5.79	5.74	5.84	16.9	

SAMPLE RAW DATA

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD052025\
Data File : PD088661.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 May 2025 17:38
Operator : AR\AJ
Sample : Q2074-01
Misc :
ALS Vial : 30 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
TP-12

Manual Integrations APPROVED
Reviewed By :Abdul Mirza 05/21/2025
Supervised By :mohammad ahmed 05/22/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 21 09:09:45 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	37566196	278.8E6	17.362	18.433
28) SA	Decachlor...	9.080	8.074	61764247	283.5E6	18.047	15.531
	Target Compounds						
17) MA	4,4'-DDT	7.025	6.181	1451557	27313313	0.465	1.506 #
19) B	Endosulfa...	7.149	6.501	6325715	70120775	1.975m	3.949m#

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

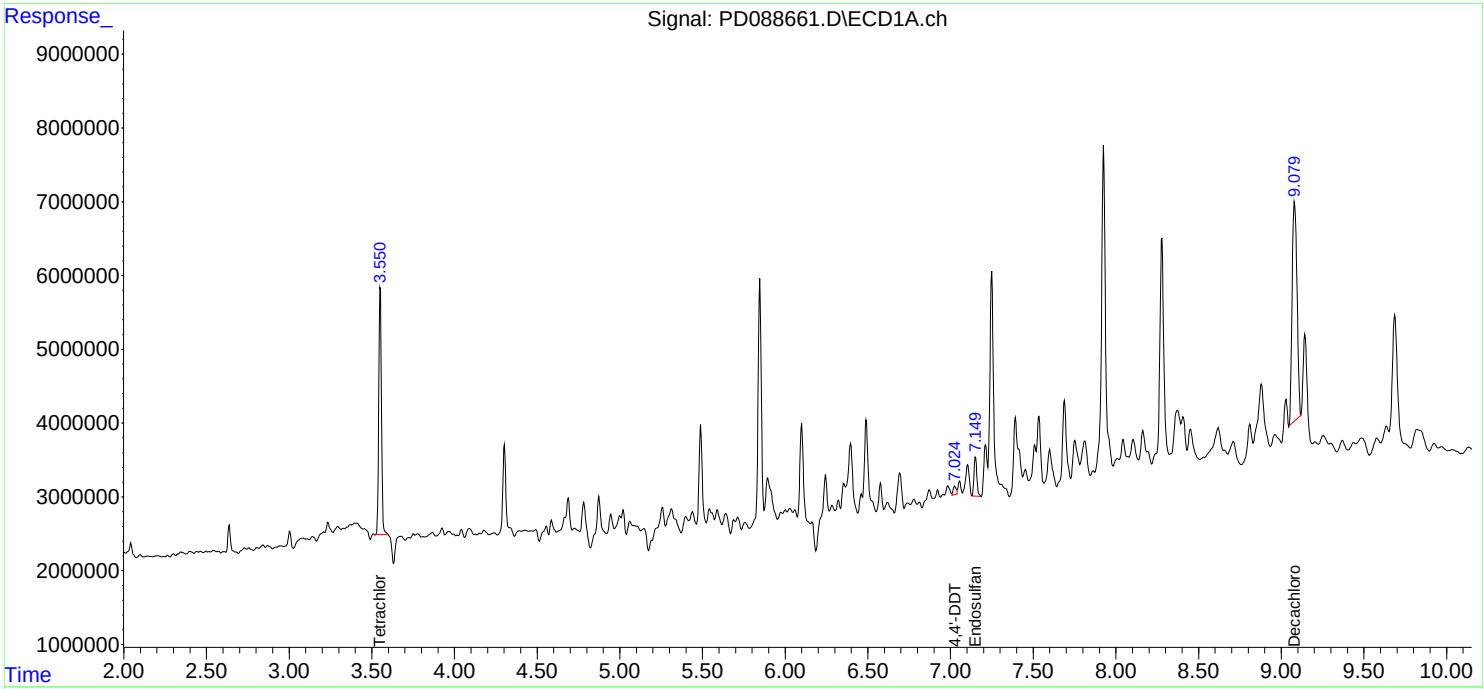
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD052025\
Data File : PD088661.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 May 2025 17:38
Operator : AR\AJ
Sample : Q2074-01
Misc :
ALS Vial : 30 Sample Multiplier: 1

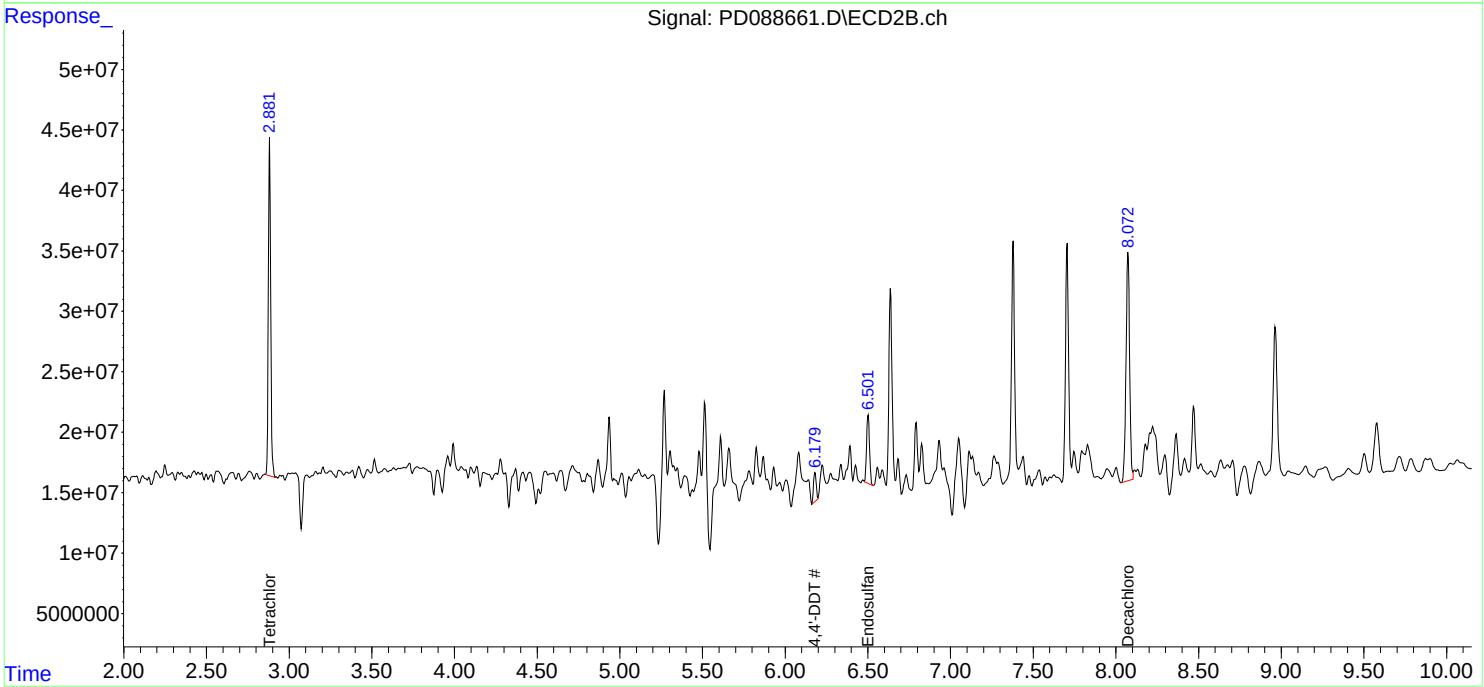
Instrument :
ECD_D
ClientSampleId :
TP-12

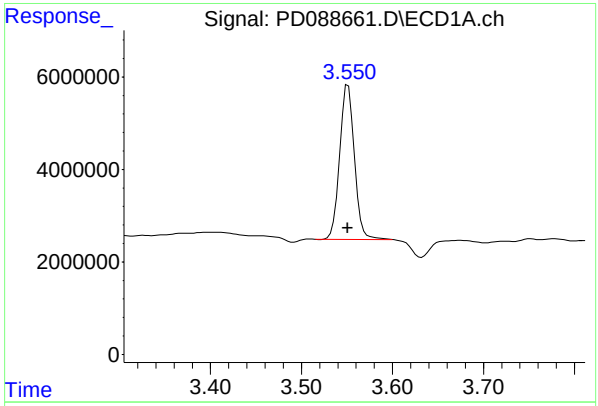
Manual Integrations APPROVED
Reviewed By :Abdul Mirza 05/21/2025
Supervised By :mohammad ahmed 05/22/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 21 09:09:45 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







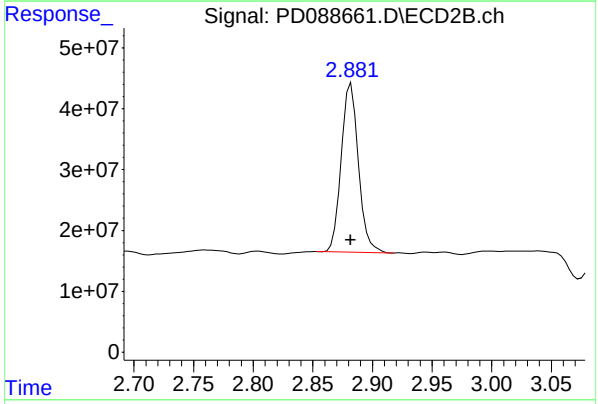
#1 Tetrachloro-m-xylene

R.T.: 3.551 min
Delta R.T.: 0.000 min
Response: 37566196
Conc: 17.36 ng/ml

Instrument :
ECD_D
ClientSampleId :
TP-12

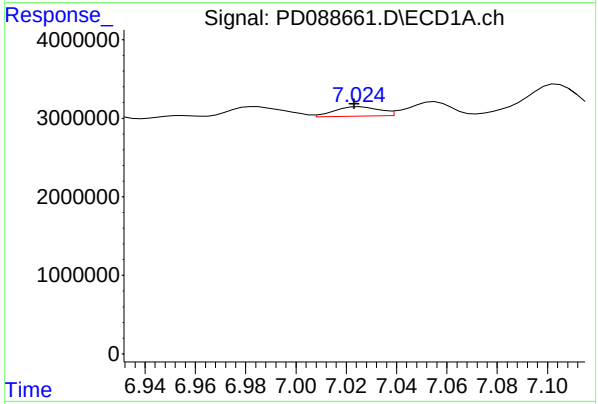
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 05/21/2025
Supervised By :mohammad ahmed 05/22/2025



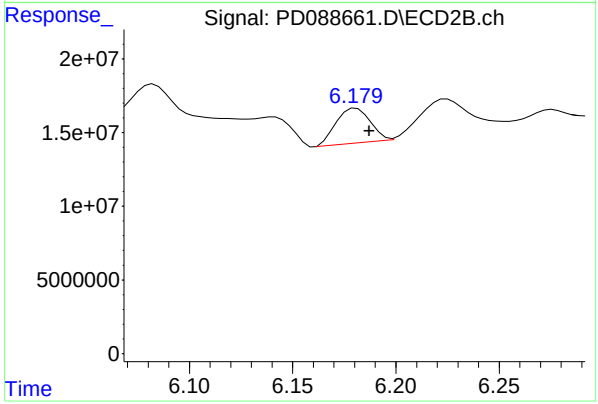
#1 Tetrachloro-m-xylene

R.T.: 2.882 min
Delta R.T.: 0.000 min
Response: 278840763
Conc: 18.43 ng/ml



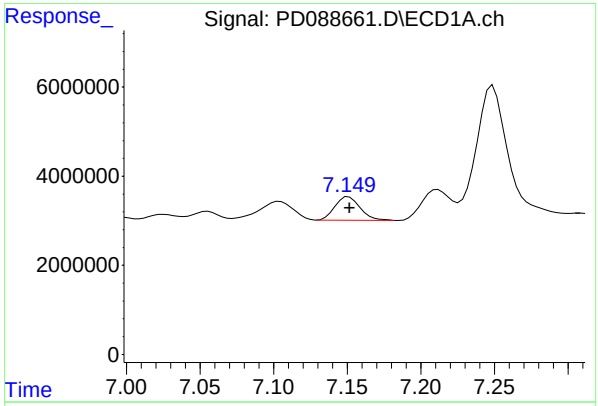
#17 4,4'-DDT

R.T.: 7.025 min
Delta R.T.: 0.002 min
Response: 1451557
Conc: 0.46 ng/ml



#17 4,4'-DDT

R.T.: 6.181 min
Delta R.T.: -0.006 min
Response: 27313313
Conc: 1.51 ng/ml



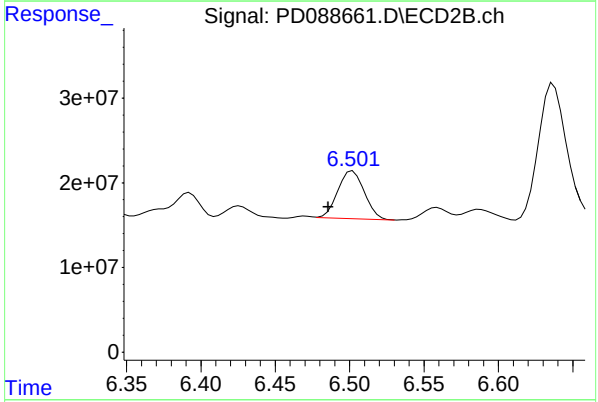
#19 Endosulfan Sulfate

R.T.: 7.149 min
Delta R.T.: -0.002 mi
Response: 6325715
Conc: 1.97 ng/m

Instrument :
ECD_D
ClientSampleId :
TP-12

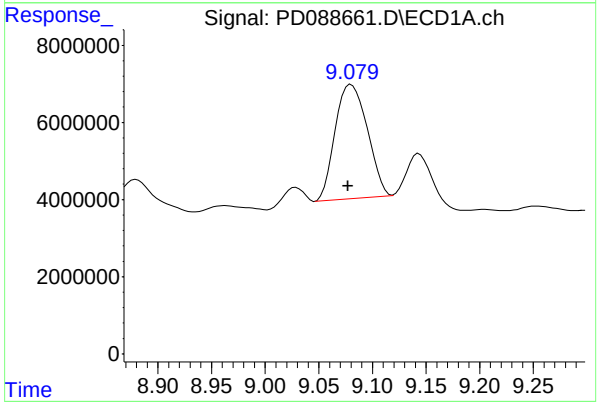
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 05/21/2025
Supervised By :mohammad ahmed 05/22/2025



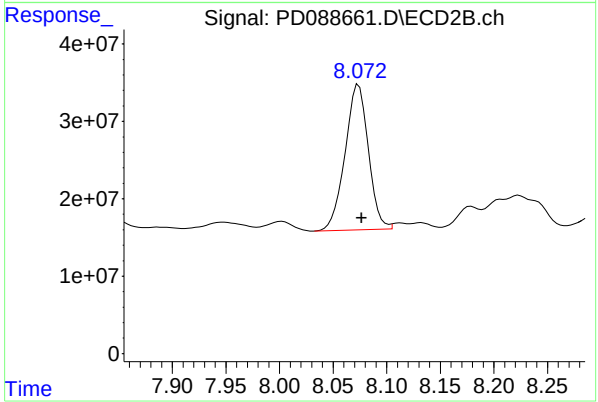
#19 Endosulfan Sulfate

R.T.: 6.501 min
Delta R.T.: 0.015 min
Response: 70120775
Conc: 3.95 ng/ml m



#28 Decachlorobiphenyl

R.T.: 9.080 min
Delta R.T.: 0.003 min
Response: 61764247
Conc: 18.05 ng/ml



#28 Decachlorobiphenyl

R.T.: 8.074 min
Delta R.T.: -0.003 min
Response: 283535031
Conc: 15.53 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD052025\
Data File : PD088662.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 May 2025 17:52
Operator : AR\AJ
Sample : Q2074-02
Misc :
ALS Vial : 31 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
TP-7

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 21 03:35:30 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	44804930	330.4E6	20.707	21.841
28)	SA Decachlor...	9.077	8.074	68336236	322.9E6	19.968	17.689
	Target Compounds						

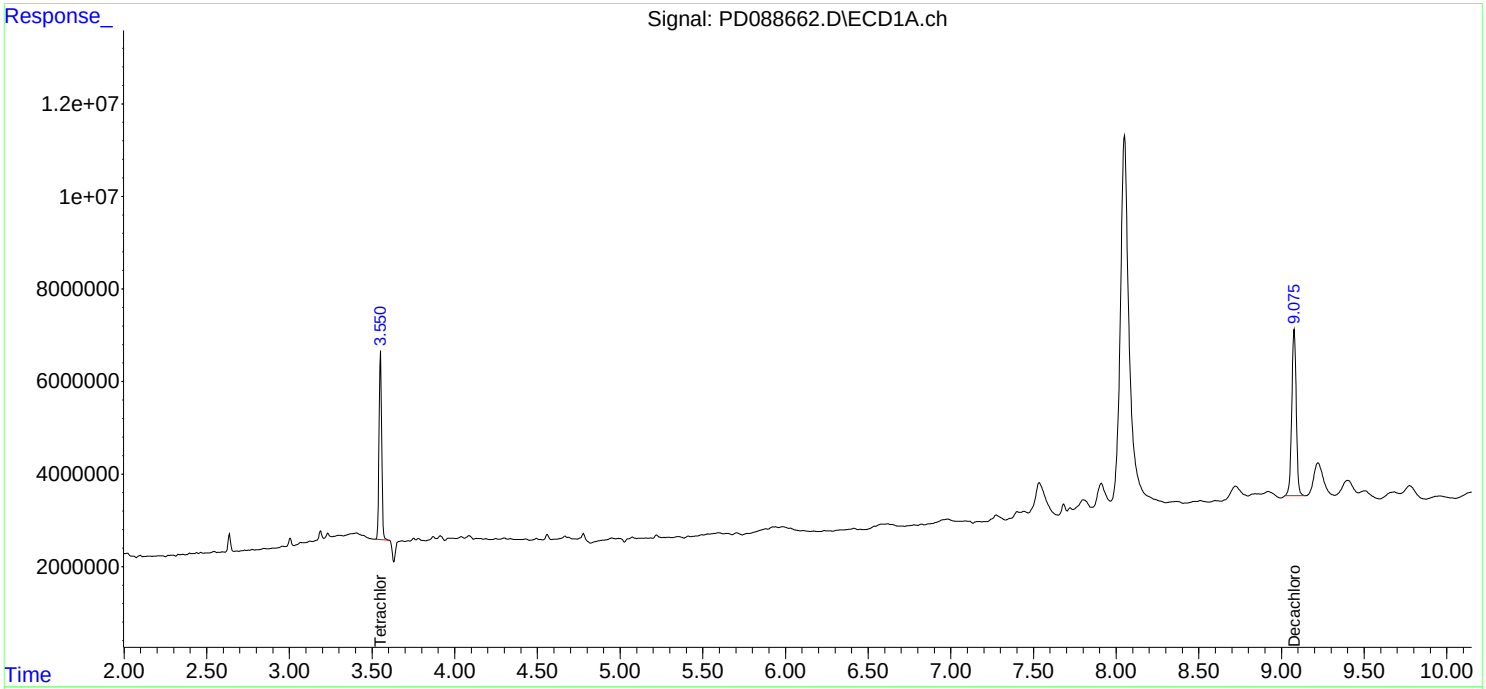
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

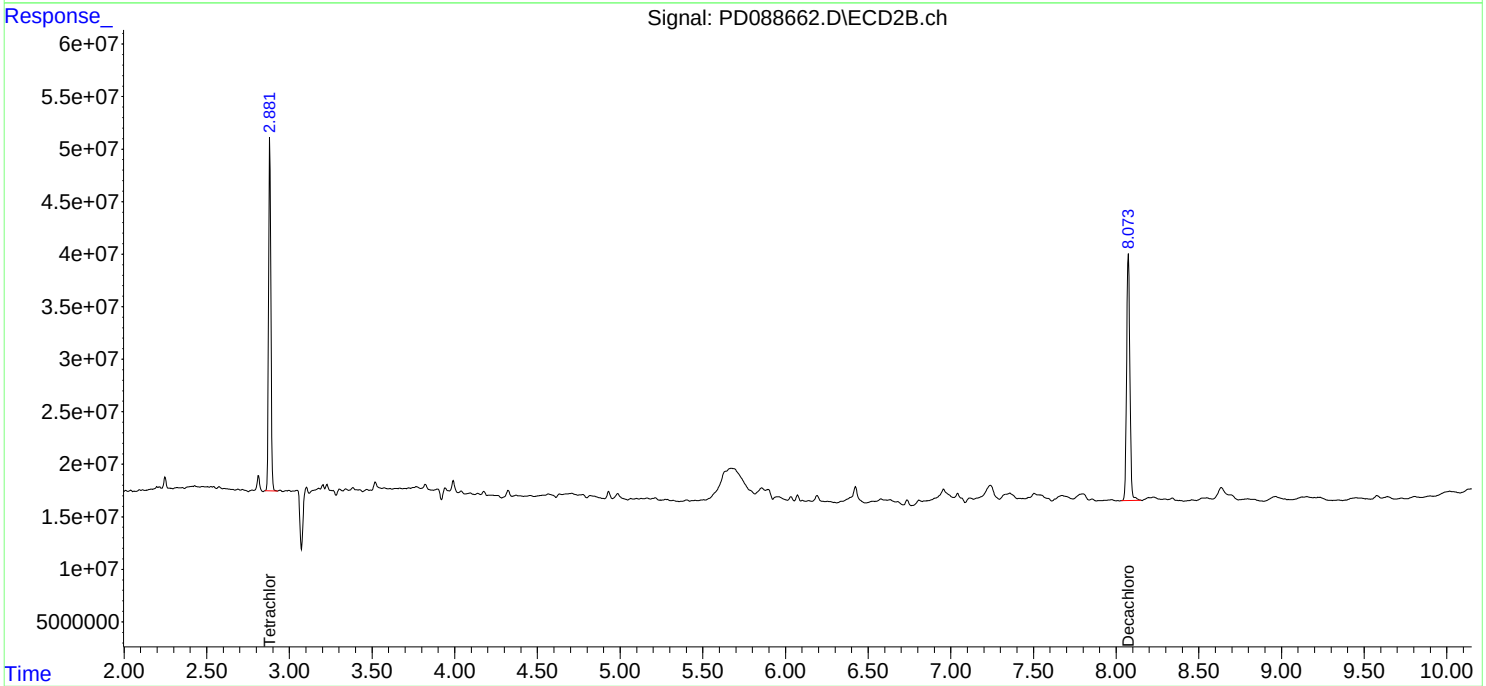
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD052025\
Data File : PD088662.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 May 2025 17:52
Operator : AR\AJ
Sample : Q2074-02
Misc :
ALS Vial : 31 Sample Multiplier: 1

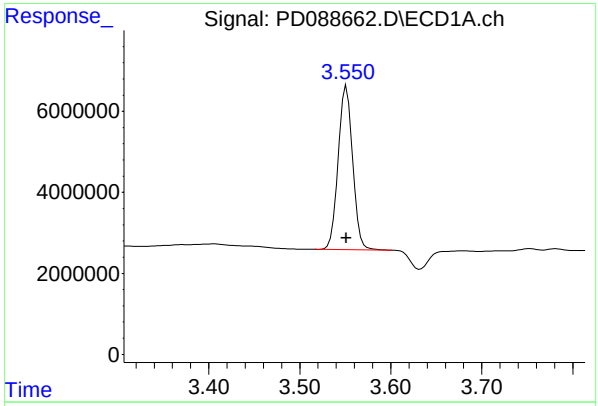
Instrument :
ECD_D
ClientSampleId :
TP-7

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 21 03:35:30 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



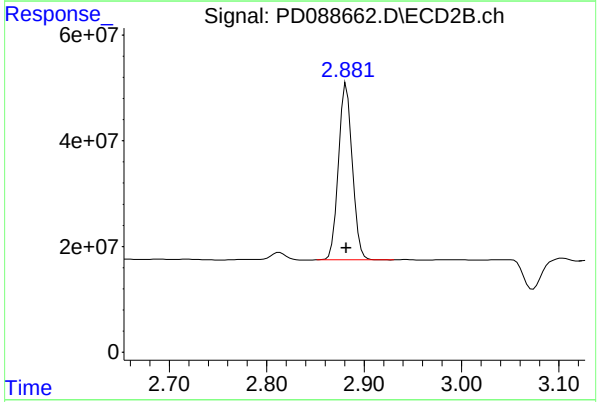




#1 Tetrachloro-m-xylene

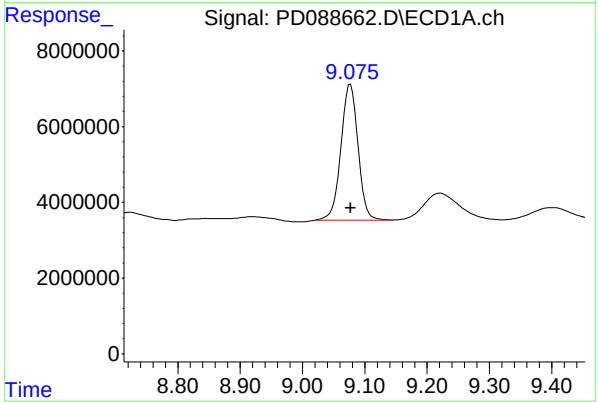
R.T.: 3.551 min
Delta R.T.: 0.000 min
Response: 44804930
Conc: 20.71 ng/ml

Instrument :
ECD_D
ClientSampleId :
TP-7



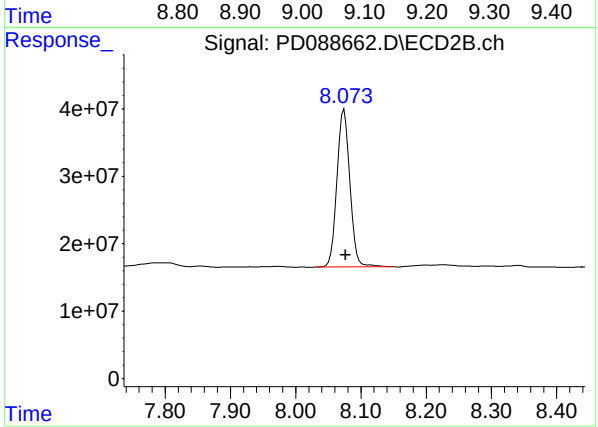
#1 Tetrachloro-m-xylene

R.T.: 2.882 min
Delta R.T.: 0.000 min
Response: 330391596
Conc: 21.84 ng/ml



#28 Decachlorobiphenyl

R.T.: 9.077 min
Delta R.T.: 0.000 min
Response: 68336236
Conc: 19.97 ng/ml



#28 Decachlorobiphenyl

R.T.: 8.074 min
Delta R.T.: -0.002 min
Response: 322929420
Conc: 17.69 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD052025\
Data File : PD088663.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 May 2025 18:06
Operator : AR\AJ
Sample : Q2074-03
Misc :
ALS Vial : 32 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
TP-15

Manual Integrations APPROVED
Reviewed By :Abdul Mirza 05/21/2025
Supervised By :mohammad ahmed 05/22/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 21 03:35:42 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	38244592	280.7E6	17.675	18.558m
28) SA	Decachlor...	9.076	8.073	45627503	241.5E6	13.332	13.228m
	Target Compounds						
10) B	gamma-Chl...	5.947	5.130	1444054	5540560	0.362	0.260 #
11) B	alpha-Chl...	6.036	5.192	3714870	9479437	0.927	0.460m#

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

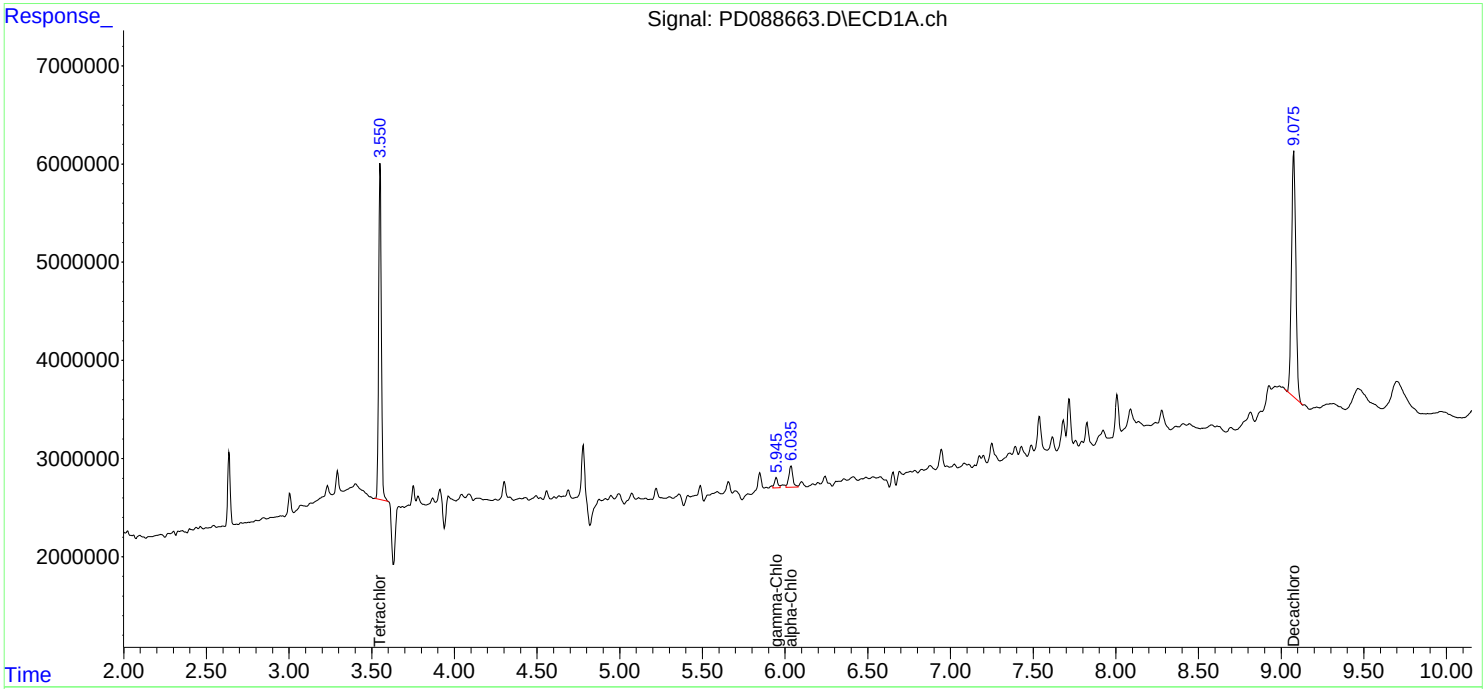
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD052025\
Data File : PD088663.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 May 2025 18:06
Operator : AR\AJ
Sample : Q2074-03
Misc :
ALS Vial : 32 Sample Multiplier: 1

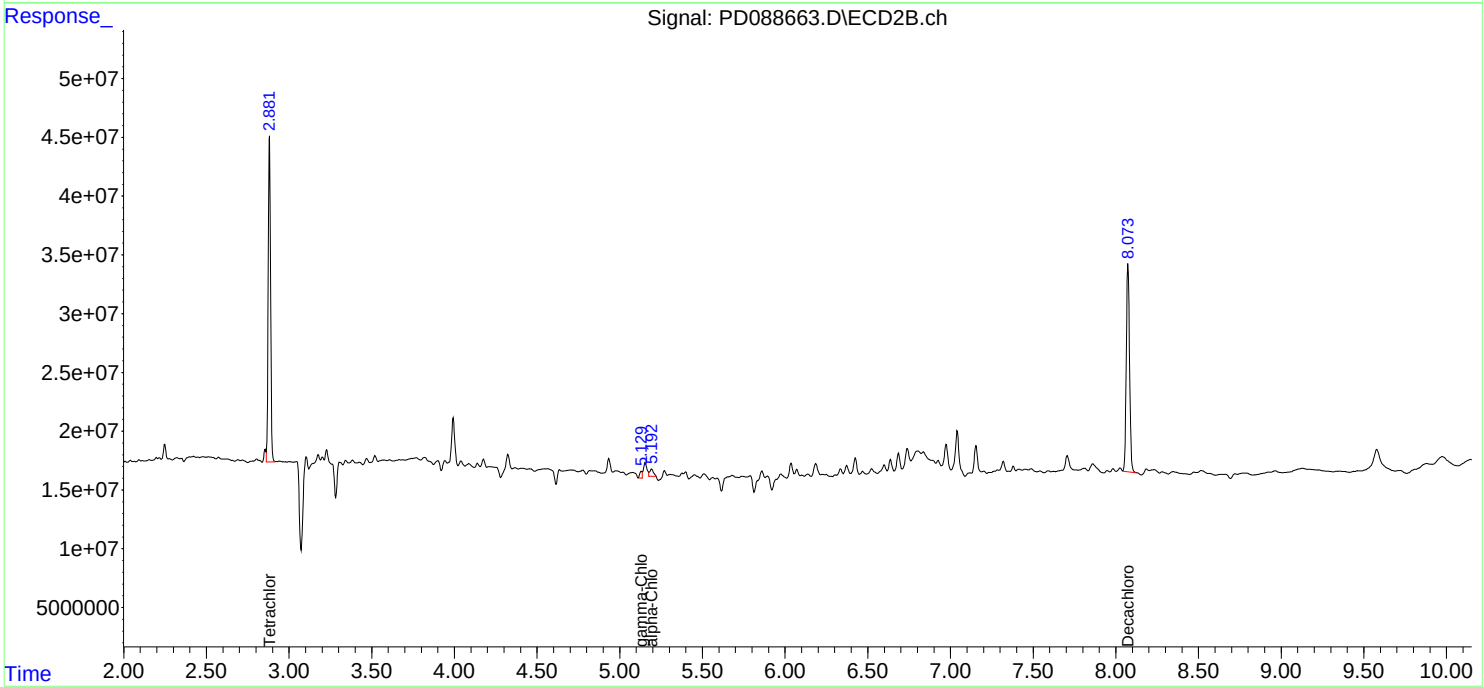
Instrument :
ECD_D
ClientSampleId :
TP-15

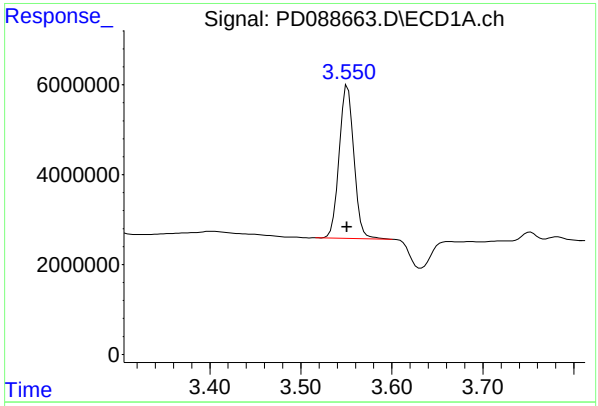
Manual Integrations APPROVED
Reviewed By :Abdul Mirza 05/21/2025
Supervised By :mohammad ahmed 05/22/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 21 03:35:42 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







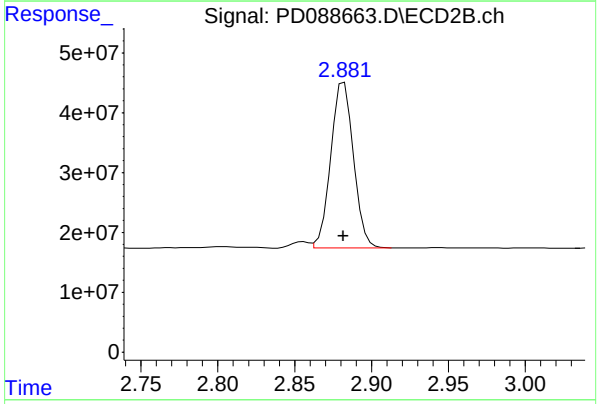
#1 Tetrachloro-m-xylene

R.T.: 3.551 min
Delta R.T.: 0.000 min
Response: 38244592
Conc: 17.68 ng/ml

Instrument :
ECD_D
ClientSampleId :
TP-15

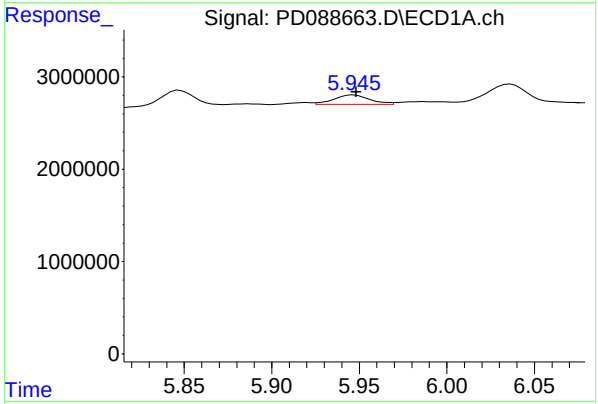
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 05/21/2025
Supervised By :mohammad ahmed 05/22/2025



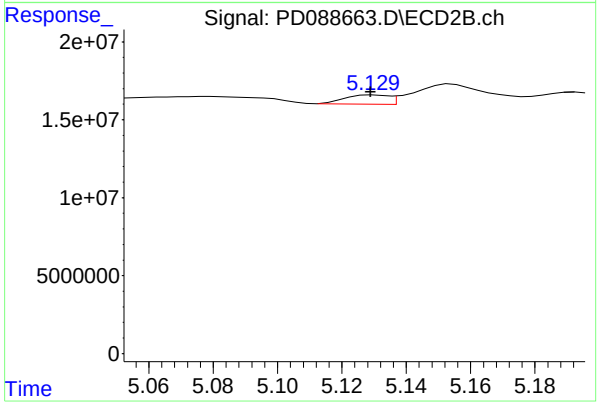
#1 Tetrachloro-m-xylene

R.T.: 2.881 min
Delta R.T.: 0.000 min
Response: 280723613
Conc: 18.56 ng/ml m



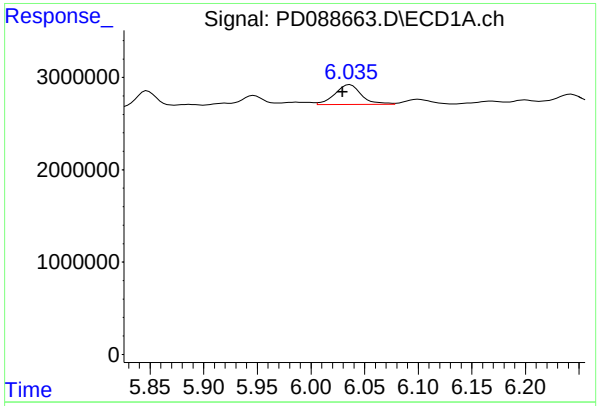
#10 gamma-Chordane

R.T.: 5.947 min
Delta R.T.: -0.002 min
Response: 1444054
Conc: 0.36 ng/ml



#10 gamma-Chordane

R.T.: 5.130 min
Delta R.T.: 0.001 min
Response: 5540560
Conc: 0.26 ng/ml



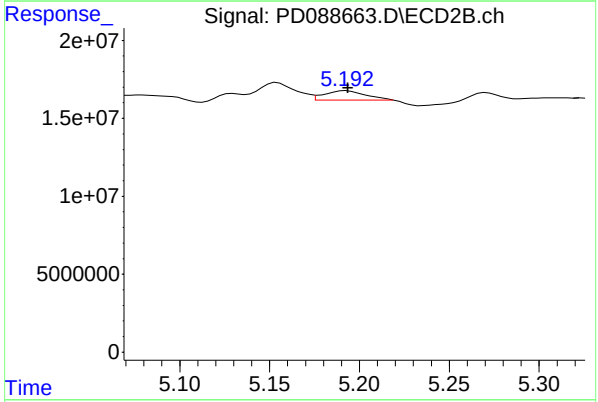
#11 alpha-Chlordane

R.T.: 6.036 min
Delta R.T.: 0.007 min
Response: 3714870
Conc: 0.93 ng/ml

Instrument :
ECD_D
ClientSampleId :
TP-15

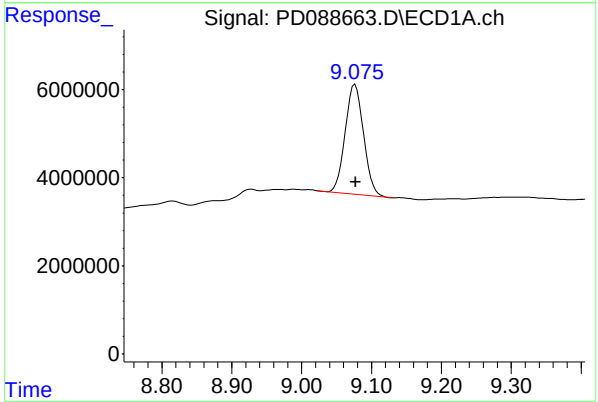
Manual Integrations APPROVED

Reviewed By :Abdul Mirza 05/21/2025
Supervised By :mohammad ahmed 05/22/2025



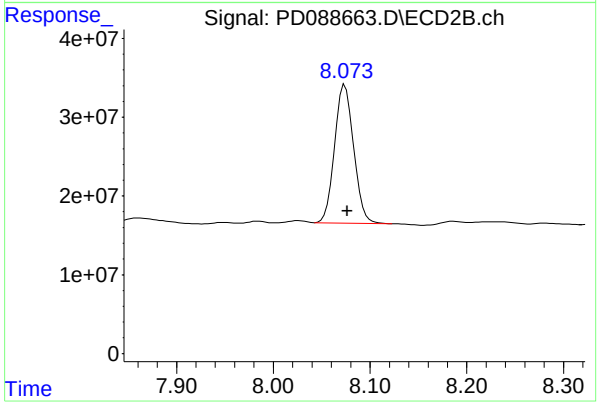
#11 alpha-Chlordane

R.T.: 5.192 min
Delta R.T.: -0.002 min
Response: 9479437
Conc: 0.46 ng/ml m



#28 Decachlorobiphenyl

R.T.: 9.076 min
Delta R.T.: -0.001 min
Response: 45627503
Conc: 13.33 ng/ml



#28 Decachlorobiphenyl

R.T.: 8.073 min
Delta R.T.: -0.004 min
Response: 241493927
Conc: 13.23 ng/ml m

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD052025\
Data File : PD088664.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 May 2025 18:19
Operator : AR\AJ
Sample : Q2074-04
Misc :
ALS Vial : 33 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
TP-20

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 21 03:35:53 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	38689032	286.9E6	17.881	18.967
28)	SA Decachlor...	9.076	8.074	56699183	282.1E6	16.567	15.450
	Target Compounds						

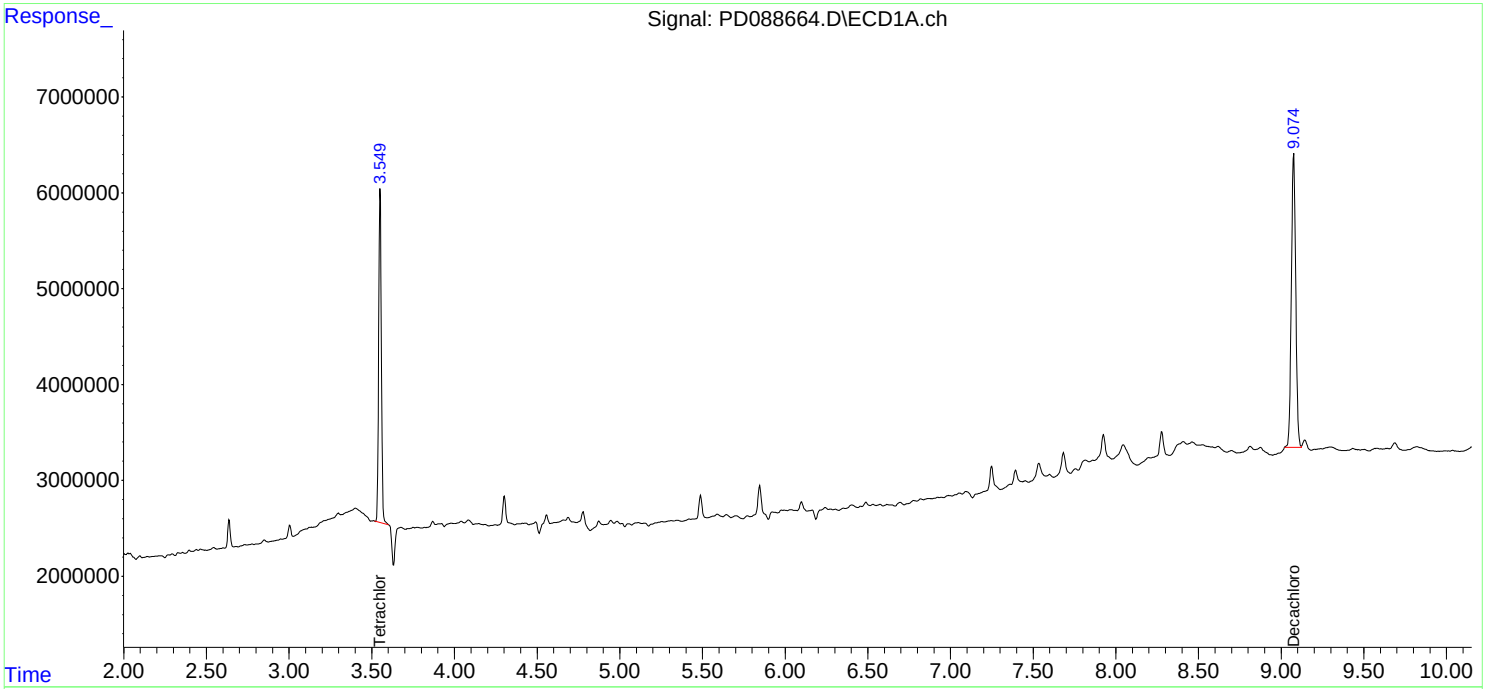
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

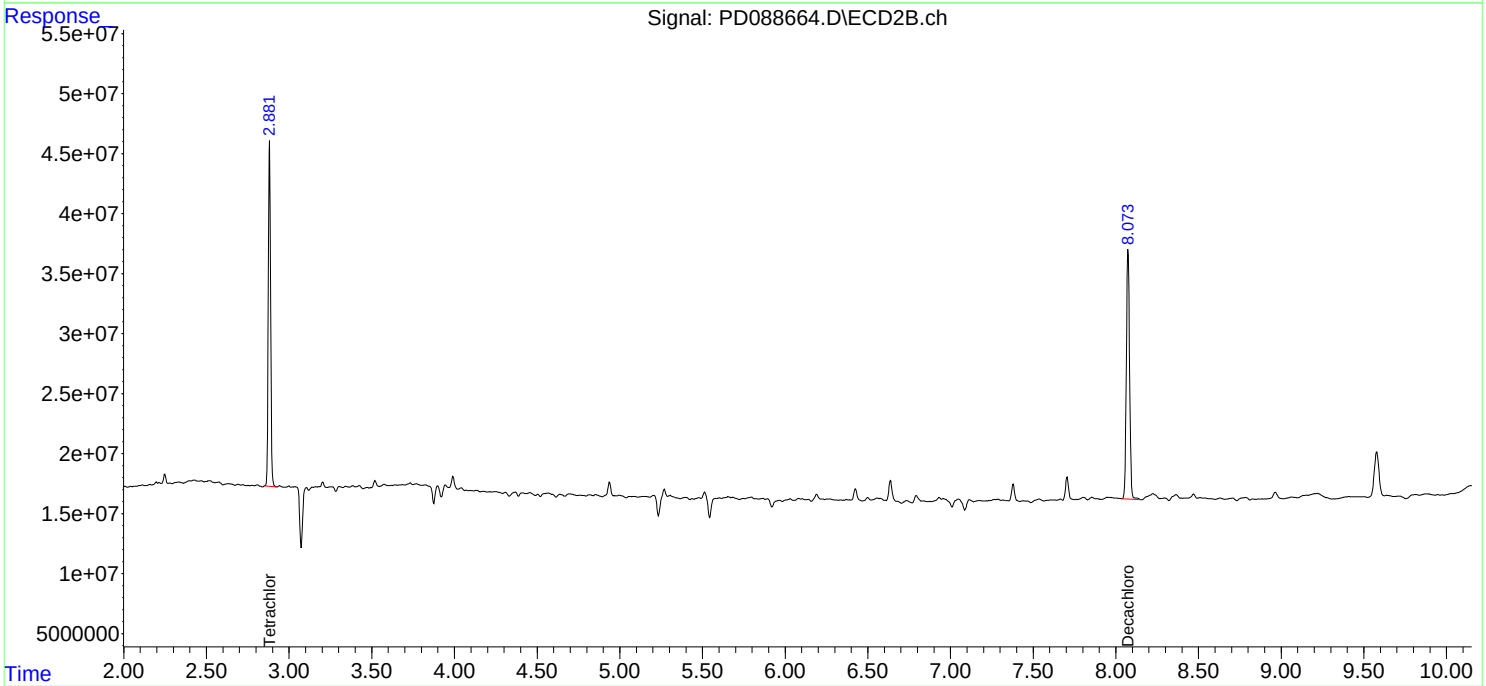
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD052025\
Data File : PD088664.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 May 2025 18:19
Operator : AR\AJ
Sample : Q2074-04
Misc :
ALS Vial : 33 Sample Multiplier: 1

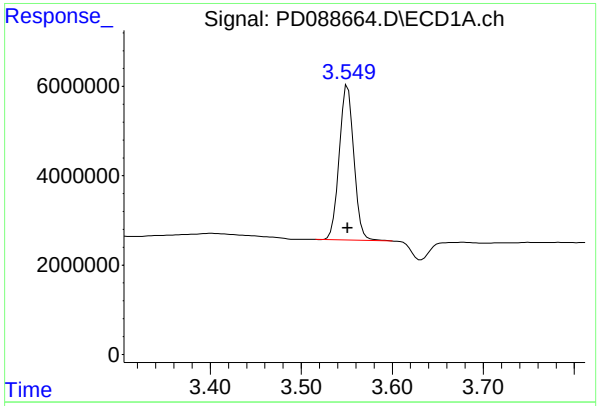
Instrument :
ECD_D
ClientSampleId :
TP-20

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 21 03:35:53 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



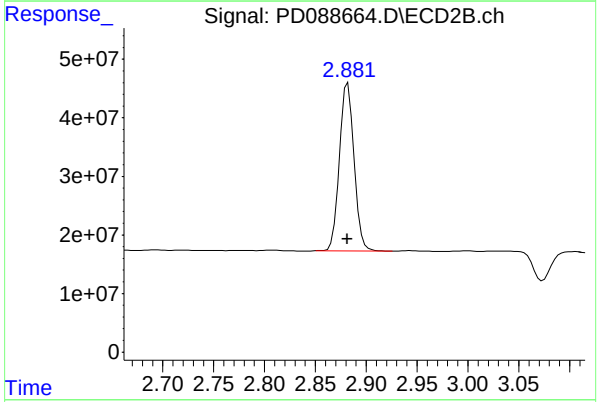




#1 Tetrachloro-m-xylene

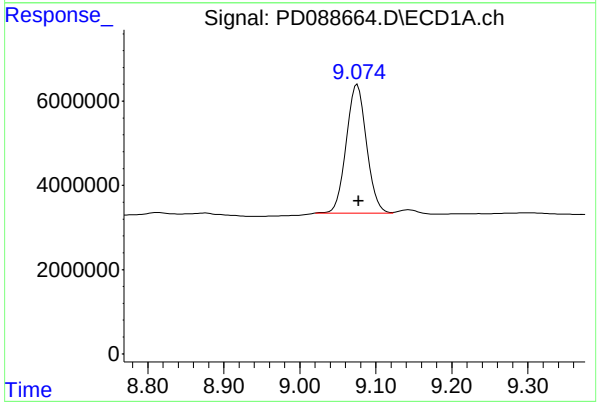
R.T.: 3.551 min
Delta R.T.: 0.000 min
Response: 38689032
Conc: 17.88 ng/ml

Instrument :
ECD_D
ClientSampleId :
TP-20



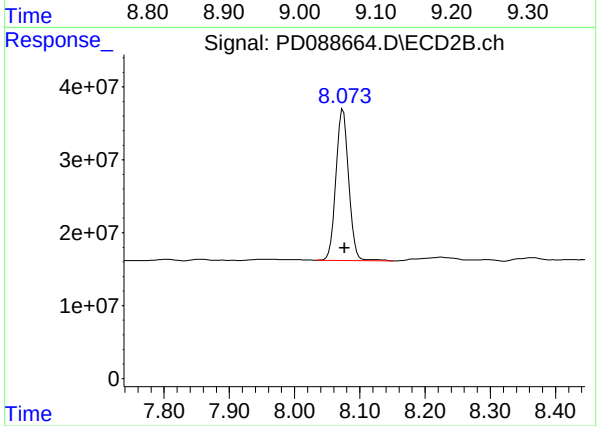
#1 Tetrachloro-m-xylene

R.T.: 2.882 min
Delta R.T.: 0.000 min
Response: 286917431
Conc: 18.97 ng/ml



#28 Decachlorobiphenyl

R.T.: 9.076 min
Delta R.T.: -0.002 min
Response: 56699183
Conc: 16.57 ng/ml



#28 Decachlorobiphenyl

R.T.: 8.074 min
Delta R.T.: -0.002 min
Response: 282061108
Conc: 15.45 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD052025\
Data File : PD088667.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 May 2025 19:00
Operator : AR\AJ
Sample : Q2074-05
Misc :
ALS Vial : 36 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
TP-38

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 21 03:36:26 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD051925.M
Quant Title : GC Extractables
QLast Update : Mon May 19 15:27:28 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
1)	SA Tetrachlo...	3.552	2.882	36083053	265.5E6	16.676	17.550
28)	SA Decachlor...	9.076	8.075	48151897	243.4E6	14.070	13.332
	Target Compounds						

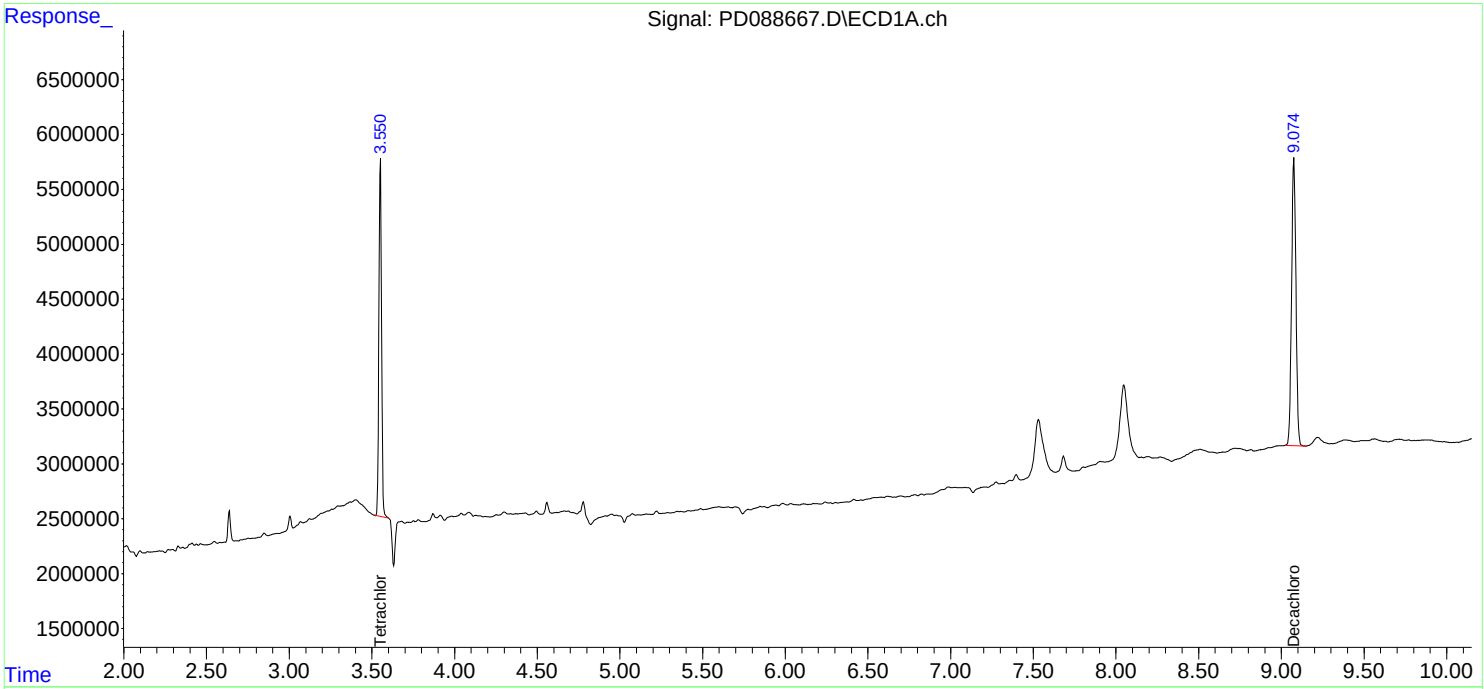
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

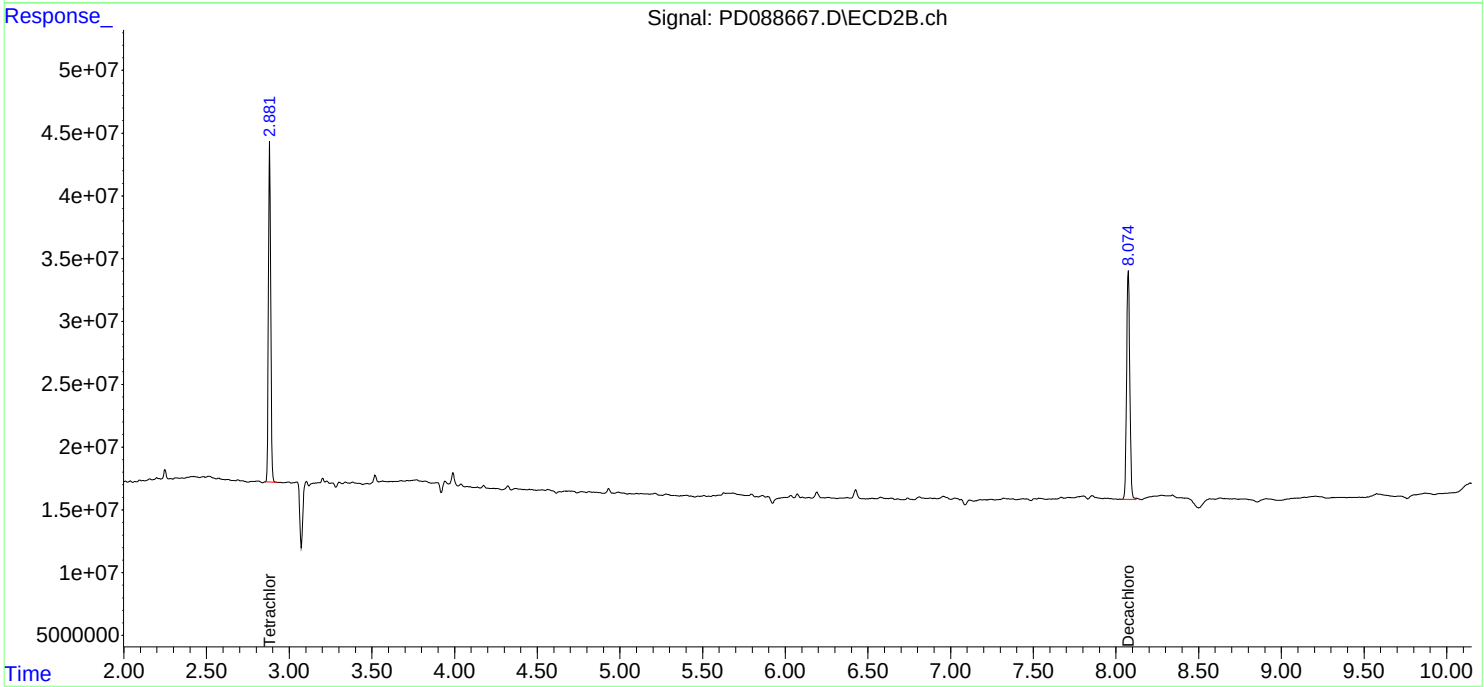
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD052025\
Data File : PD088667.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 May 2025 19:00
Operator : AR\AJ
Sample : Q2074-05
Misc :
ALS Vial : 36 Sample Multiplier: 1

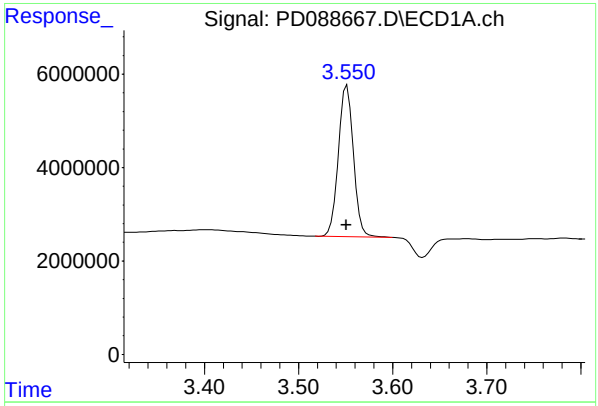
Instrument :
ECD_D
ClientSampleId :
TP-38

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 21 03:36:26 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD051925.M
Quant Title : GC Extractables
QLast Update : Mon May 19 15:27:28 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm



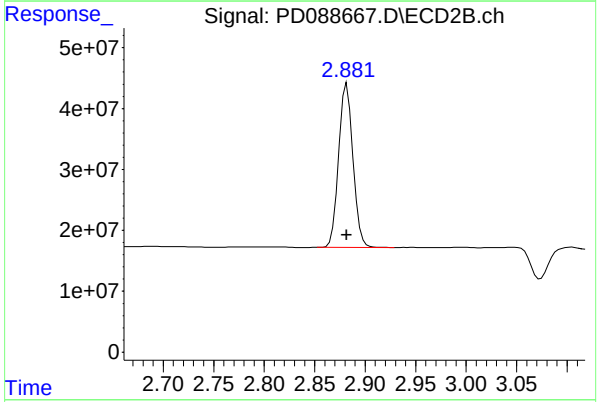




#1 Tetrachloro-m-xylene

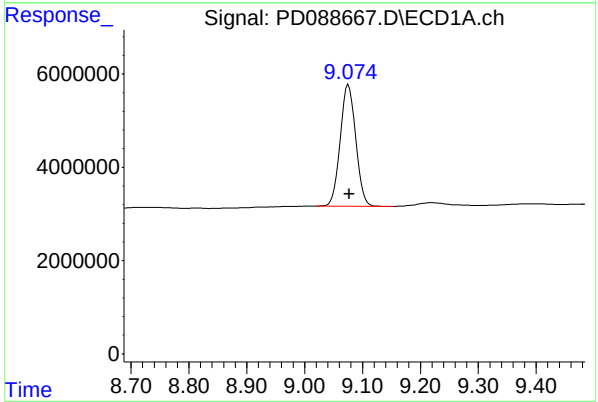
R.T.: 3.552 min
Delta R.T.: 0.000 min
Response: 36083053
Conc: 16.68 ng/ml

Instrument :
ECD_D
ClientSampleId :
TP-38



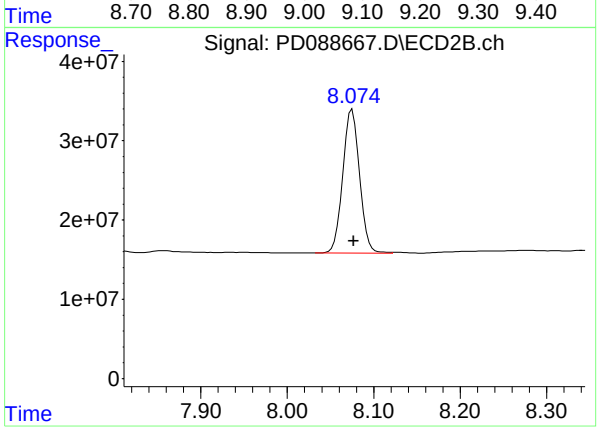
#1 Tetrachloro-m-xylene

R.T.: 2.882 min
Delta R.T.: 0.000 min
Response: 265475169
Conc: 17.55 ng/ml



#28 Decachlorobiphenyl

R.T.: 9.076 min
Delta R.T.: -0.002 min
Response: 48151897
Conc: 14.07 ng/ml



#28 Decachlorobiphenyl

R.T.: 8.075 min
Delta R.T.: -0.002 min
Response: 243401390
Conc: 13.33 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD052025\
Data File : PD088668.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 May 2025 19:14
Operator : AR\AJ
Sample : Q2074-06
Misc :
ALS Vial : 37 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
TP-19

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 21 03:36:37 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...	3.550	2.882	38152107	279.8E6	17.632	18.495
28)	SA Decachlor...	9.076	8.074	53606786	266.1E6	15.664	14.576
	Target Compounds						

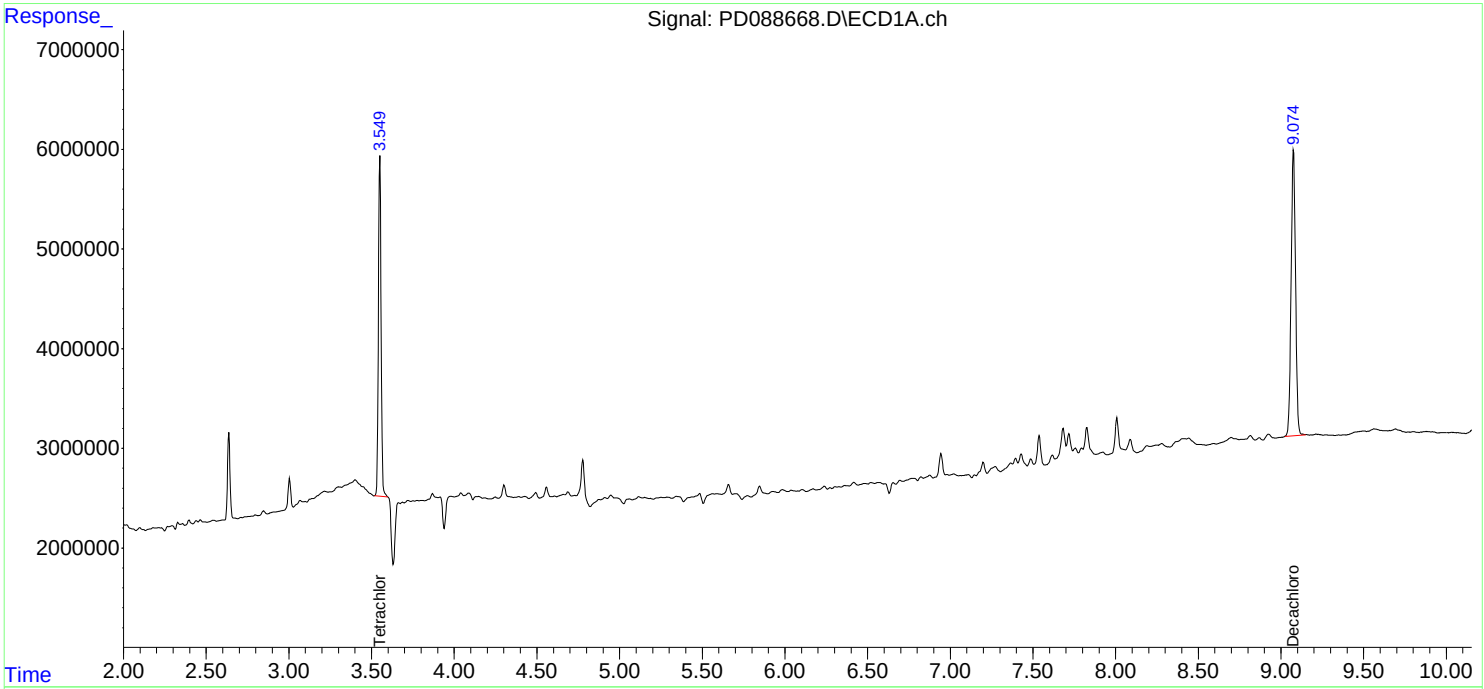
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

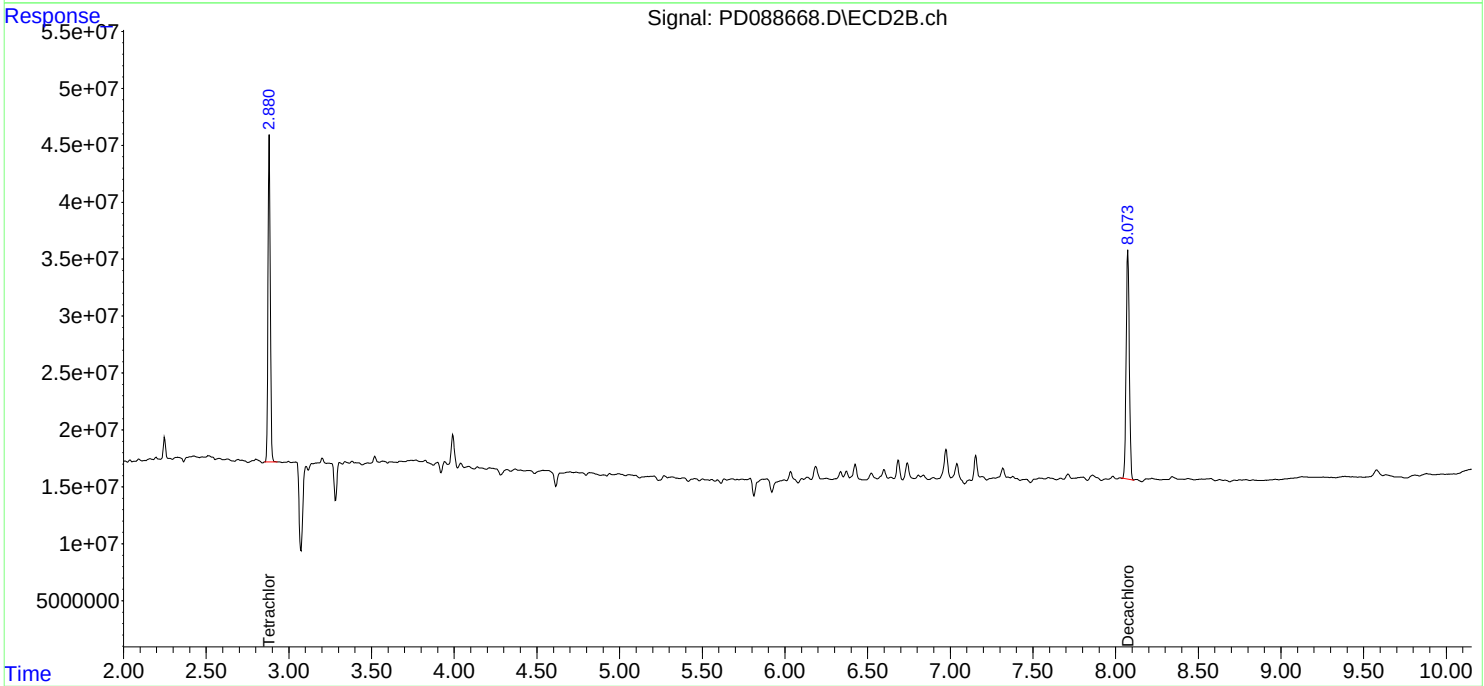
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD052025\
Data File : PD088668.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 May 2025 19:14
Operator : AR\AJ
Sample : Q2074-06
Misc :
ALS Vial : 37 Sample Multiplier: 1

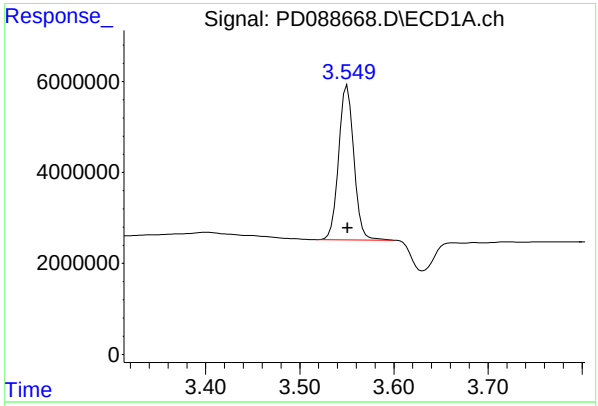
Instrument :
ECD_D
ClientSampleId :
TP-19

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 21 03:36:37 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



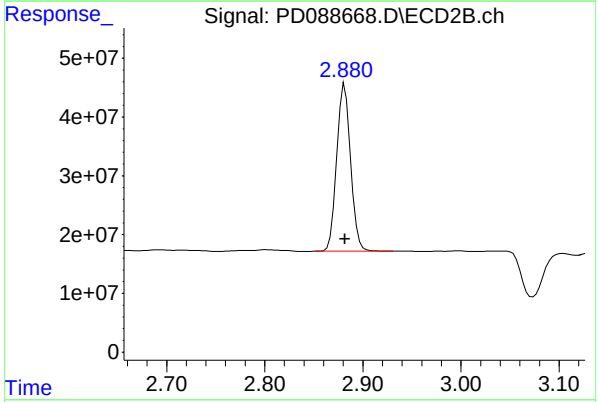




#1 Tetrachloro-m-xylene

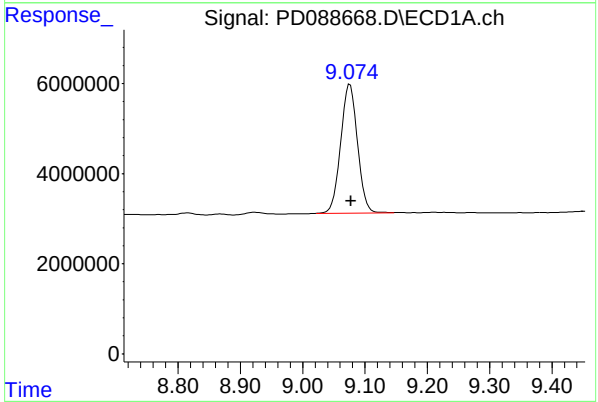
R.T.: 3.550 min
Delta R.T.: 0.000 min
Response: 38152107
Conc: 17.63 ng/ml

Instrument :
ECD_D
ClientSampleId :
TP-19



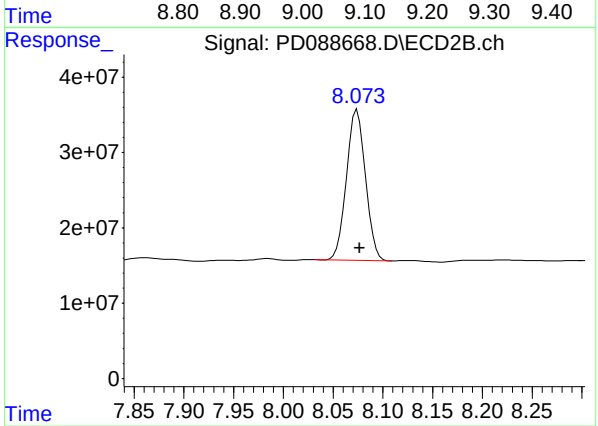
#1 Tetrachloro-m-xylene

R.T.: 2.882 min
Delta R.T.: 0.000 min
Response: 279768738
Conc: 18.49 ng/ml



#28 Decachlorobiphenyl

R.T.: 9.076 min
Delta R.T.: -0.002 min
Response: 53606786
Conc: 15.66 ng/ml



#28 Decachlorobiphenyl

R.T.: 8.074 min
Delta R.T.: -0.002 min
Response: 266099433
Conc: 14.58 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD052025\
Data File : PD088669.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 May 2025 19:28
Operator : AR\AJ
Sample : Q2074-07
Misc :
ALS Vial : 38 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
TP-40

Manual Integrations APPROVED
Reviewed By :Abdul Mirza 05/21/2025
Supervised By :mohammad ahmed 05/22/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 21 03:36:48 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	40033802	291.0E6	18.502	19.237
28)	SA Decachlor...	9.076	8.074	52964760	279.2E6	15.476m	15.293
	Target Compounds						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

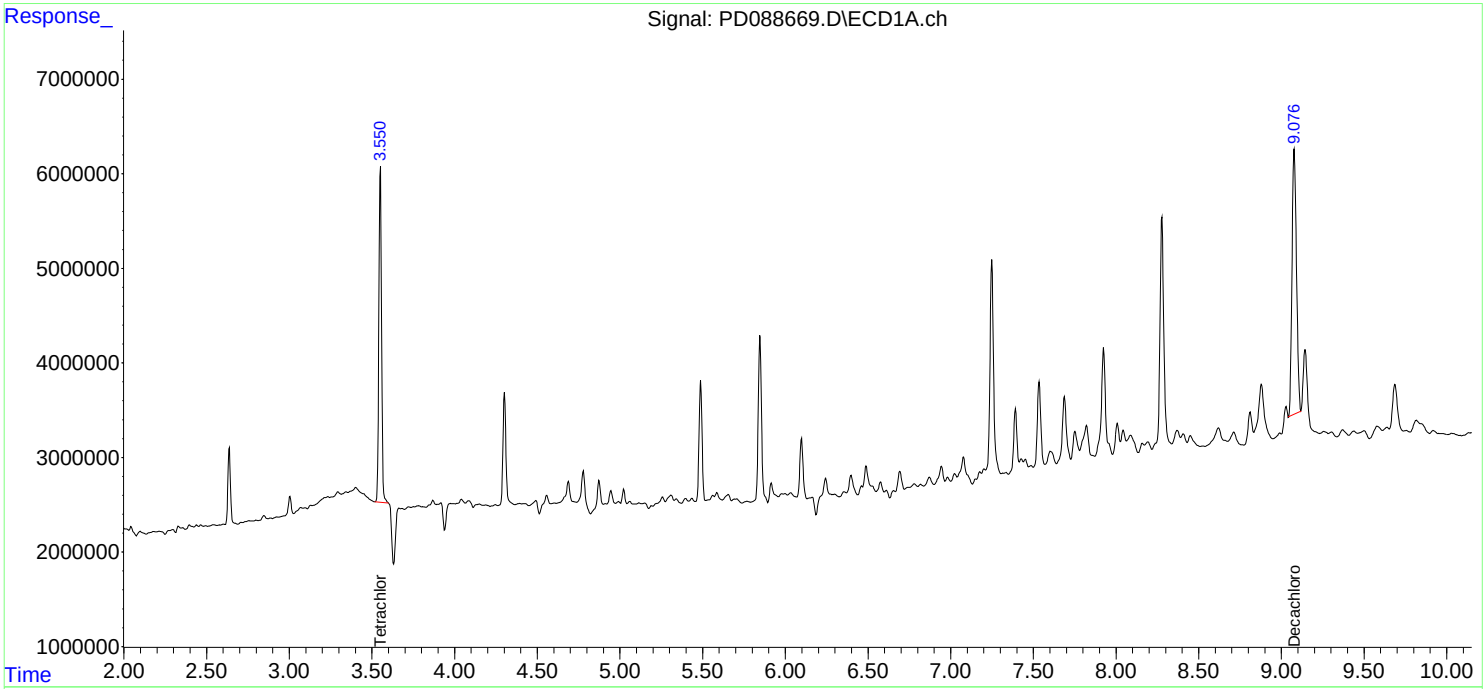
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD052025\
Data File : PD088669.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 May 2025 19:28
Operator : AR\AJ
Sample : Q2074-07
Misc :
ALS Vial : 38 Sample Multiplier: 1

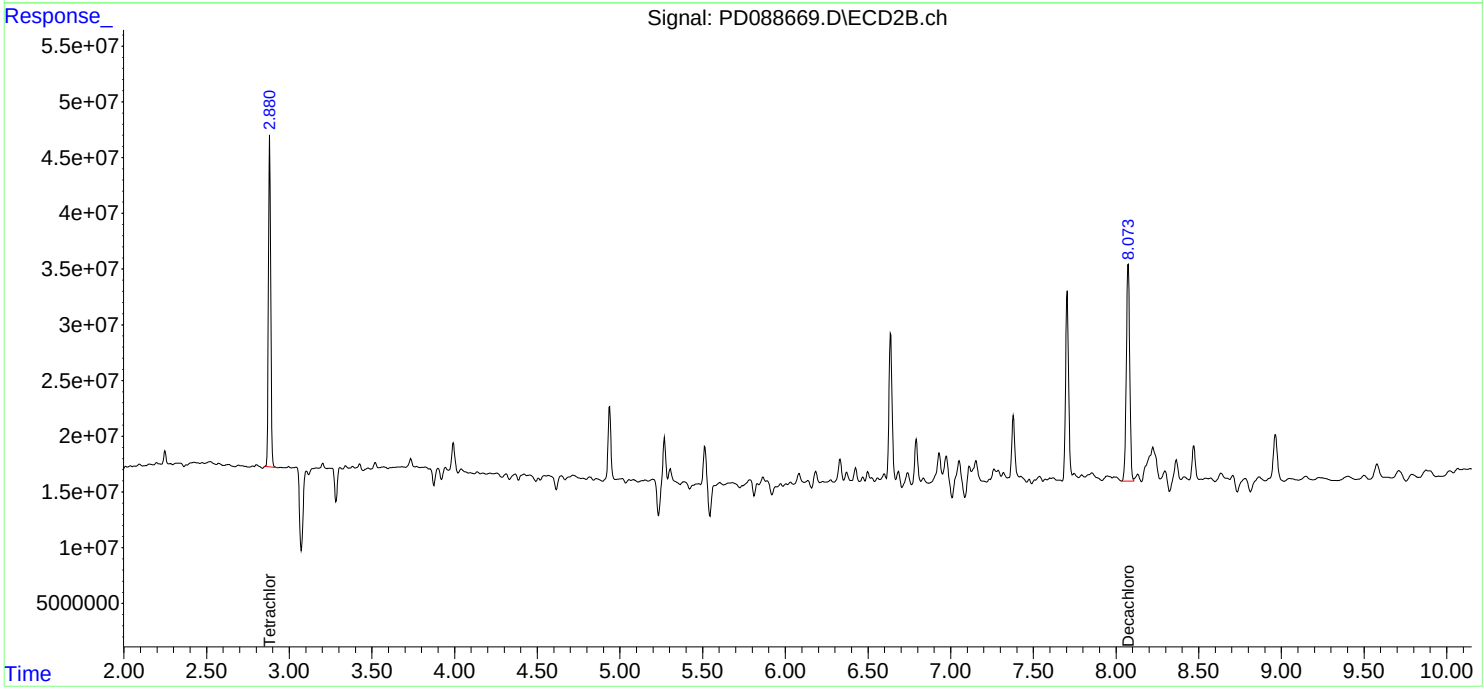
Instrument :
ECD_D
ClientSampleId :
TP-40

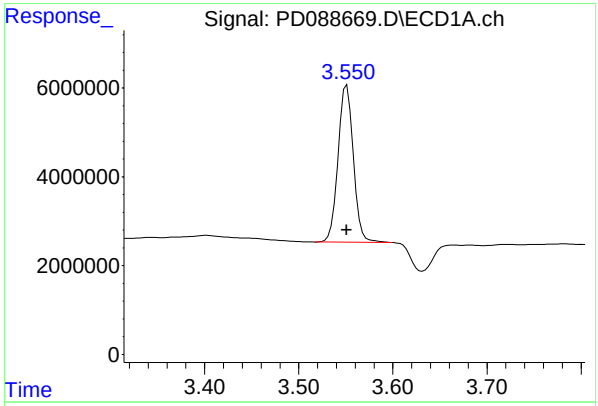
Manual Integrations APPROVED
Reviewed By :Abdul Mirza 05/21/2025
Supervised By :mohammad ahmed 05/22/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 21 03:36:48 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







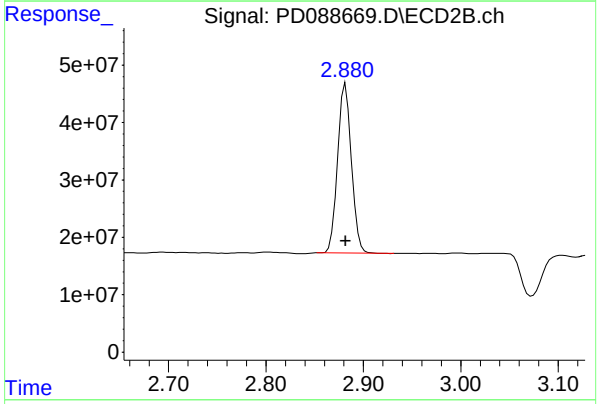
#1 Tetrachloro-m-xylene

R.T.: 3.551 min
Delta R.T.: 0.000 min
Response: 40033802
Conc: 18.50 ng/ml

Instrument :
ECD_D
ClientSampleId :
TP-40

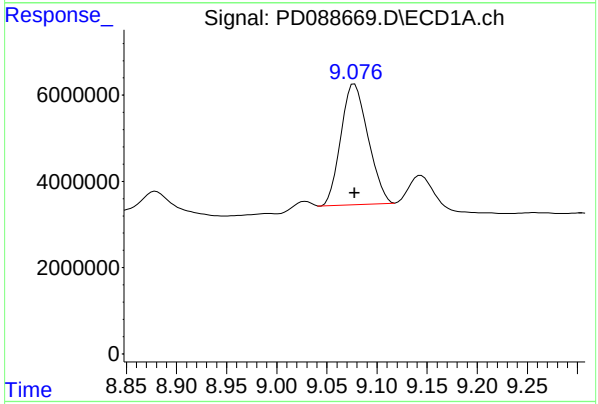
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 05/21/2025
Supervised By :mohammad ahmed 05/22/2025



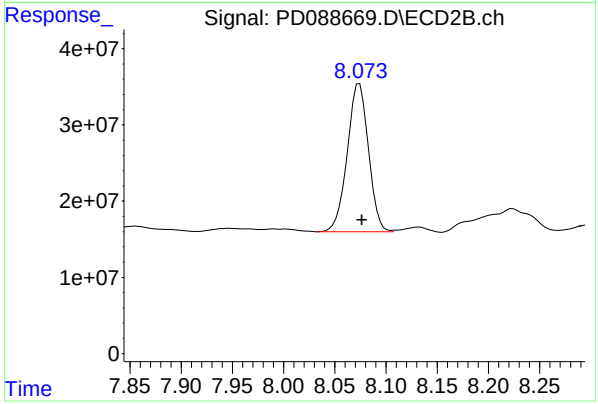
#1 Tetrachloro-m-xylene

R.T.: 2.882 min
Delta R.T.: 0.000 min
Response: 290989344
Conc: 19.24 ng/ml



#28 Decachlorobiphenyl

R.T.: 9.076 min
Delta R.T.: -0.001 min
Response: 52964760
Conc: 15.48 ng/ml m



#28 Decachlorobiphenyl

R.T.: 8.074 min
Delta R.T.: -0.002 min
Response: 279199668
Conc: 15.29 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD052025\
Data File : PD088670.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 May 2025 19:41
Operator : AR\AJ
Sample : Q2074-08
Misc :
ALS Vial : 39 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
TP-18

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 21 03:36:59 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	37619814	276.6E6	17.386	18.287
28)	SA Decachlor...	9.075	8.074	50539575	256.5E6	14.768	14.051
	Target Compounds						

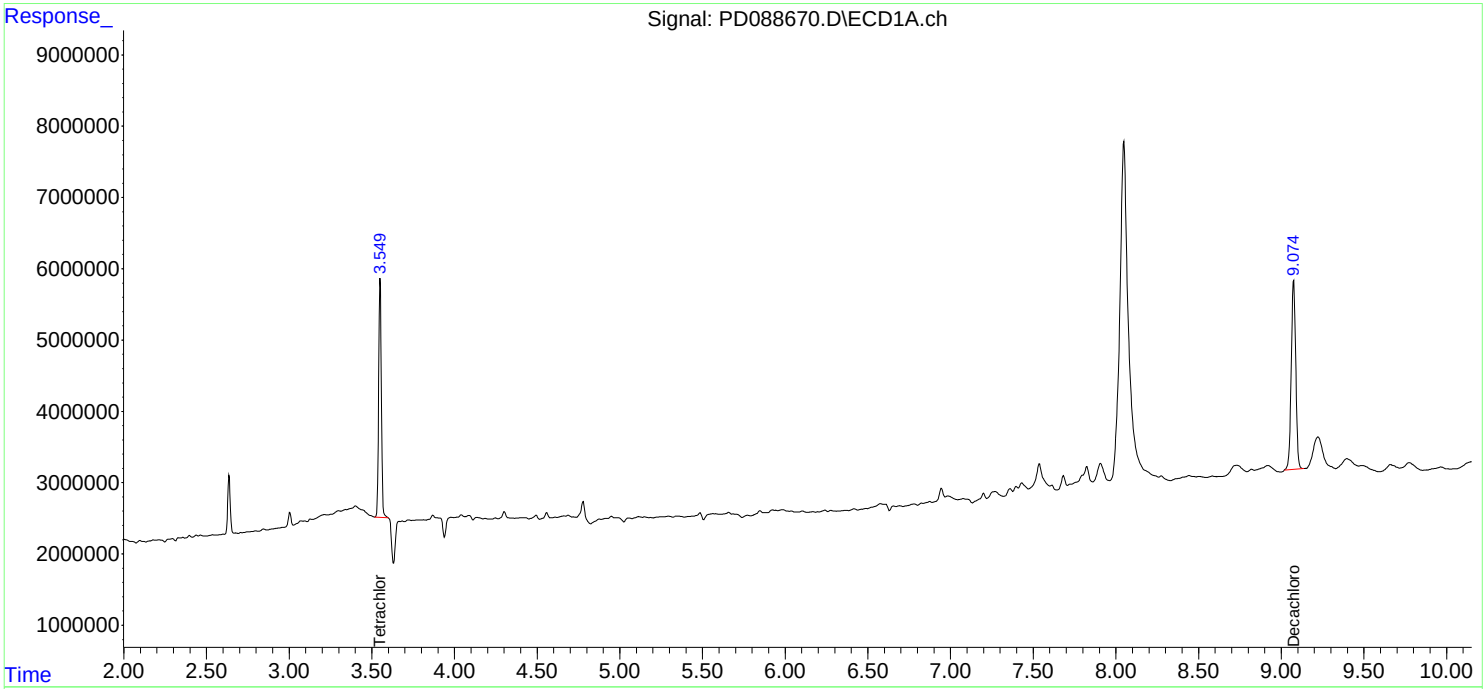
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

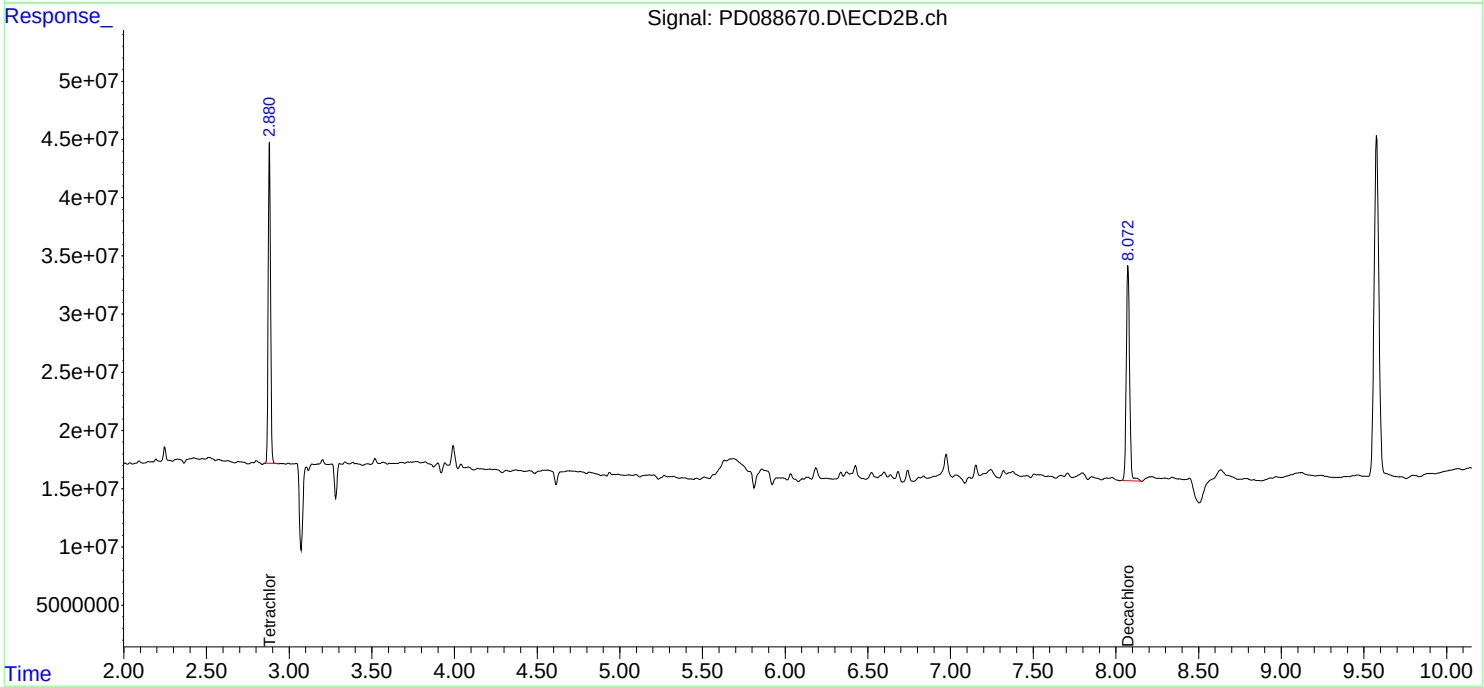
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD052025\
Data File : PD088670.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 May 2025 19:41
Operator : AR\AJ
Sample : Q2074-08
Misc :
ALS Vial : 39 Sample Multiplier: 1

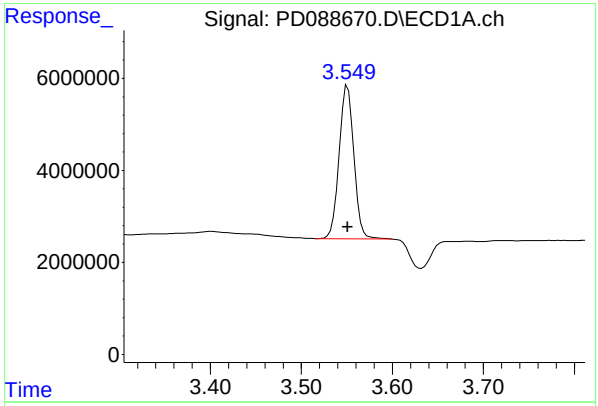
Instrument :
ECD_D
ClientSampleId :
TP-18

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 21 03:36:59 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



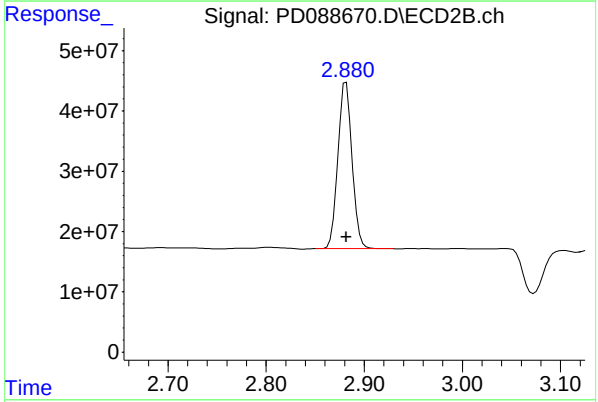




#1 Tetrachloro-m-xylene

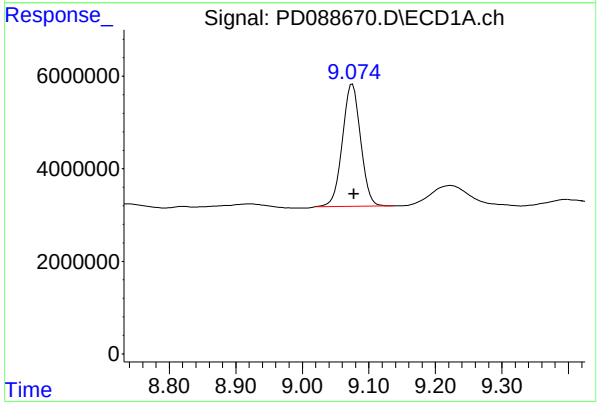
R.T.: 3.551 min
Delta R.T.: 0.000 min
Response: 37619814
Conc: 17.39 ng/ml

Instrument :
ECD_D
ClientSampleId :
TP-18



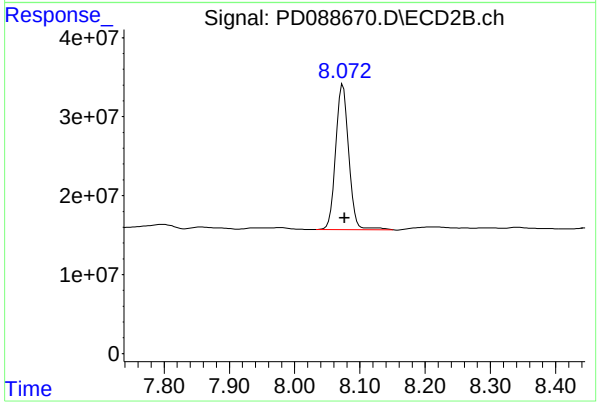
#1 Tetrachloro-m-xylene

R.T.: 2.882 min
Delta R.T.: 0.000 min
Response: 276622219
Conc: 18.29 ng/ml



#28 Decachlorobiphenyl

R.T.: 9.075 min
Delta R.T.: -0.002 min
Response: 50539575
Conc: 14.77 ng/ml



#28 Decachlorobiphenyl

R.T.: 8.074 min
Delta R.T.: -0.003 min
Response: 256524548
Conc: 14.05 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD052025\
Data File : PD088659.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 May 2025 17:11
Operator : AR\AJ
Sample : PB168075BL
Misc :
ALS Vial : 28 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
PB168075BL

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 21 03:34:58 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	37767738	288.2E6	17.455	19.052
28)	SA Decachlor...	9.076	8.074	63905652	316.9E6	18.673	17.357
	Target Compounds						

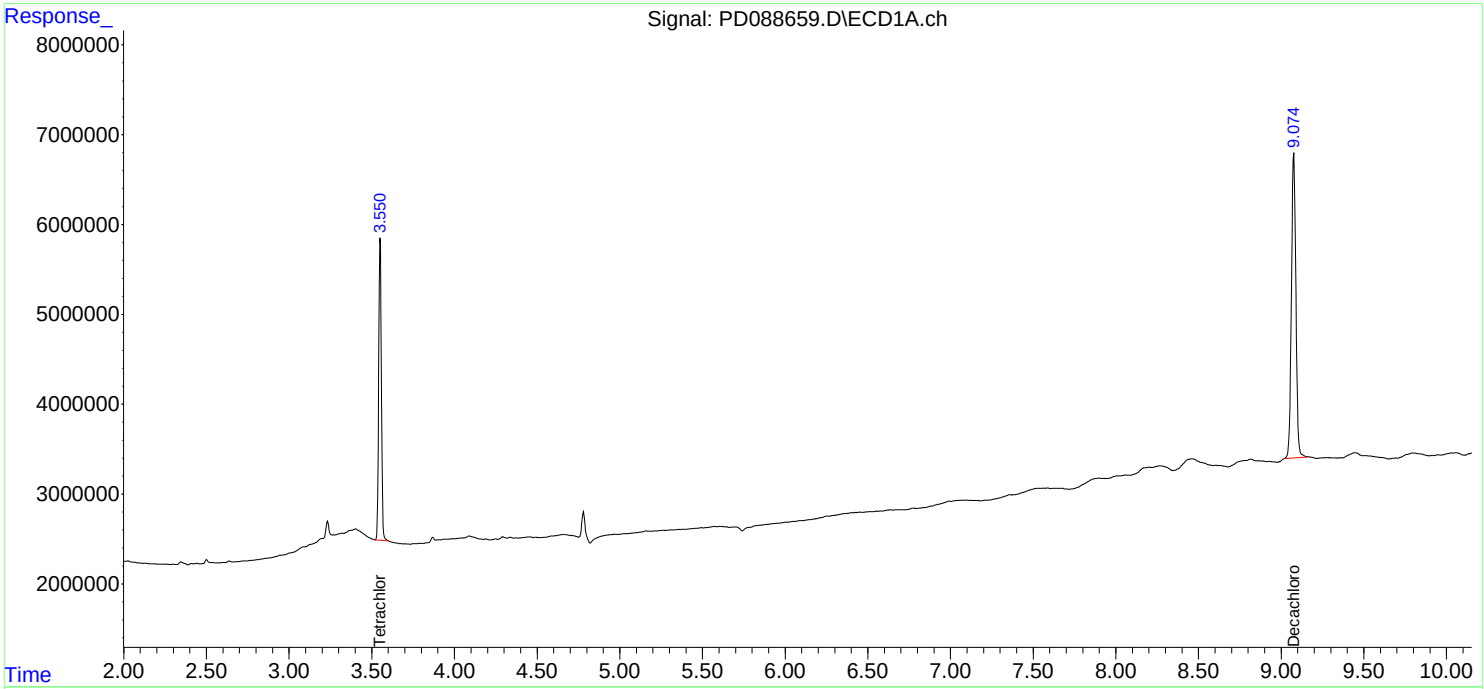
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

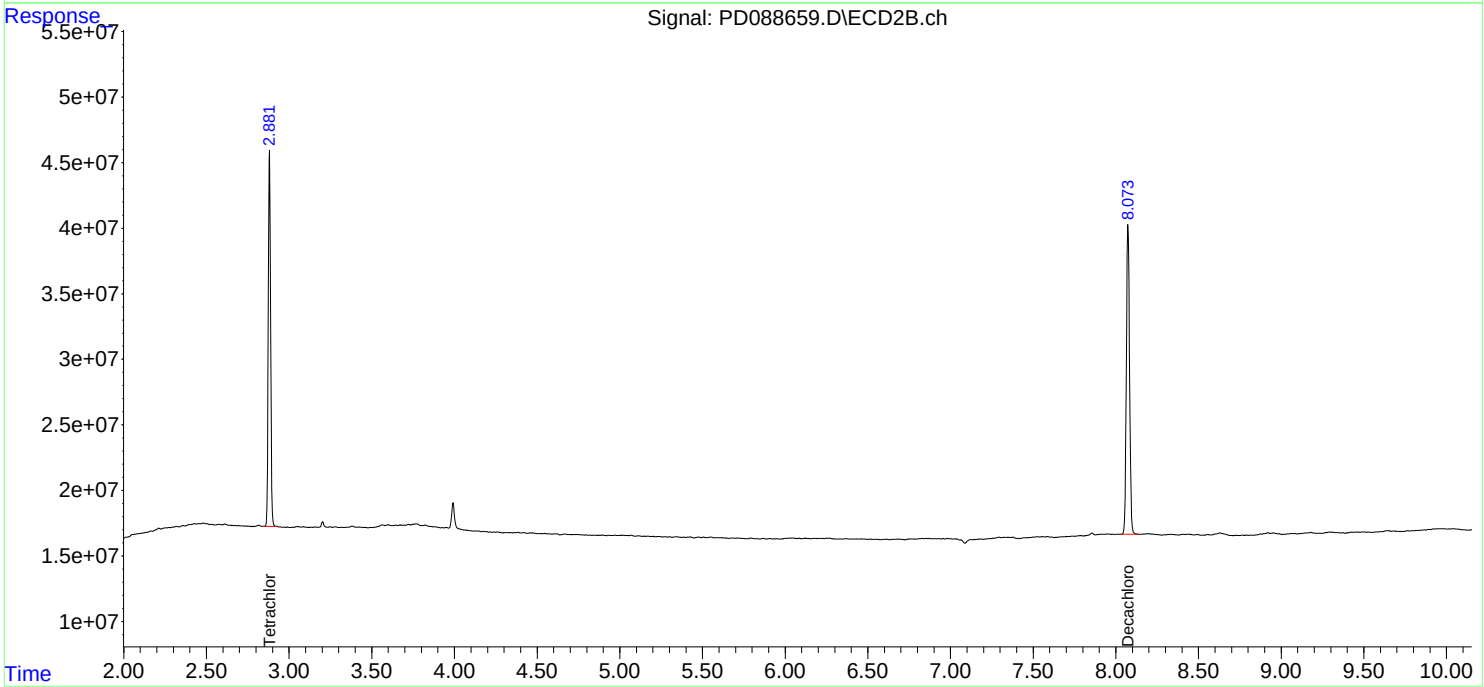
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD052025\
Data File : PD088659.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 May 2025 17:11
Operator : AR\AJ
Sample : PB168075BL
Misc :
ALS Vial : 28 Sample Multiplier: 1

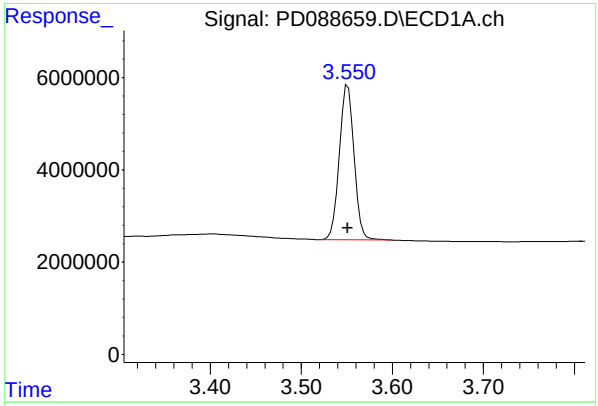
Instrument :
ECD_D
ClientSampleId :
PB168075BL

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 21 03:34:58 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



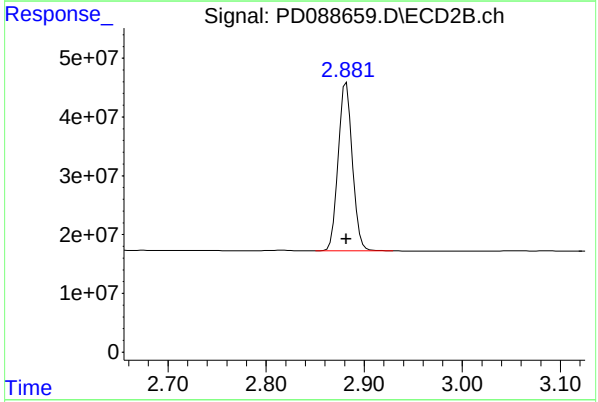




#1 Tetrachloro-m-xylene

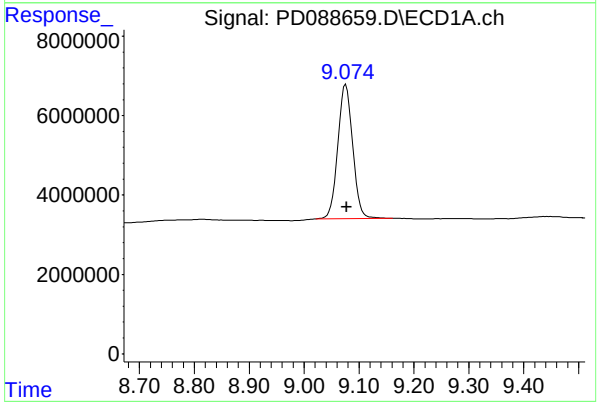
R.T.: 3.551 min
Delta R.T.: 0.000 min
Response: 37767738
Conc: 17.45 ng/ml

Instrument :
ECD_D
ClientSampleId :
PB168075BL



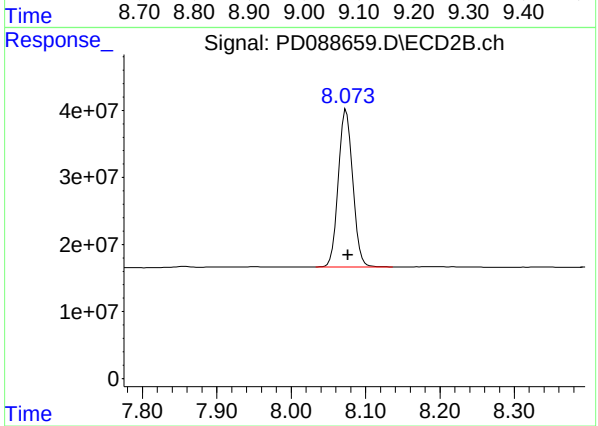
#1 Tetrachloro-m-xylene

R.T.: 2.882 min
Delta R.T.: 0.000 min
Response: 288200838
Conc: 19.05 ng/ml



#28 Decachlorobiphenyl

R.T.: 9.076 min
Delta R.T.: -0.002 min
Response: 63905652
Conc: 18.67 ng/ml



#28 Decachlorobiphenyl

R.T.: 8.074 min
Delta R.T.: -0.002 min
Response: 316877504
Conc: 17.36 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD052025\
Data File : PD088660.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 May 2025 17:25
Operator : AR\AJ
Sample : PB168075BS
Misc :
ALS Vial : 29 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
PB168075BS

Manual Integrations APPROVED
Reviewed By :Abdul Mirza 05/21/2025
Supervised By :mohammad ahmed 05/22/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 21 03:35:08 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	50776425	380.9E6	23.467	25.183
28)	SA Decachlor...	9.076	8.075	84352016	433.6E6	24.648	23.753
	Target Compounds						
2)	A alpha-BHC	4.000	3.394	267.9E6	1330.0E6	56.082	55.639
3)	MA gamma-BHC...	4.331	3.731	258.7E6	1233.5E6	56.212	55.650
4)	MA Heptachlor	4.931	4.085	247.2E6	1187.2E6	55.288	52.872
5)	MB Aldrin	5.273	4.370	249.8E6	1236.1E6	56.838	56.364
6)	B beta-BHC	4.516	4.027	98239932	536.3E6	54.482	55.046
7)	B delta-BHC	4.765	4.264	239.4E6	1174.2E6	56.647	52.671
8)	B Heptachlo...	5.692	4.875	223.8E6	1095.4E6	56.374	55.124
9)	A Endosulfan I	6.076	5.249	211.4E6	1000.0E6	56.171	52.689
10)	B gamma-Chl...	5.947	5.128	225.3E6	1181.7E6	56.487	55.396
11)	B alpha-Chl...	6.029	5.192	224.9E6	1129.5E6	56.131	54.765
12)	B 4,4'-DDE	6.198	5.376	202.2E6	1142.2E6	56.337	54.642m
13)	MA Dieldrin	6.349	5.515	226.5E6	1155.3E6	56.450	54.898
14)	MA Endrin	6.576	5.791	189.2E6	1045.1E6	55.406	54.195
15)	B Endosulfa...	6.788	6.082	189.9E6	988.8E6	55.160	53.967
16)	A 4,4'-DDD	6.707	5.931	168.0E6	1000.5E6	60.316	57.528
17)	MA 4,4'-DDT	7.023	6.185	140.9E6	839.0E6	45.145	46.259
18)	B Endrin al...	6.917	6.260	135.7E6	718.4E6	52.690	51.576
19)	B Endosulfa...	7.151	6.484	172.6E6	923.4E6	53.886	52.004
20)	A Methoxychlor	7.495	6.756	77614338	447.9E6	46.460	46.780
21)	B Endrin ke...	7.632	6.993	190.7E6	1028.4E6	55.701	53.155
22)	Mirex	8.116	7.187	136.2E6	771.4E6	52.438	50.741

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

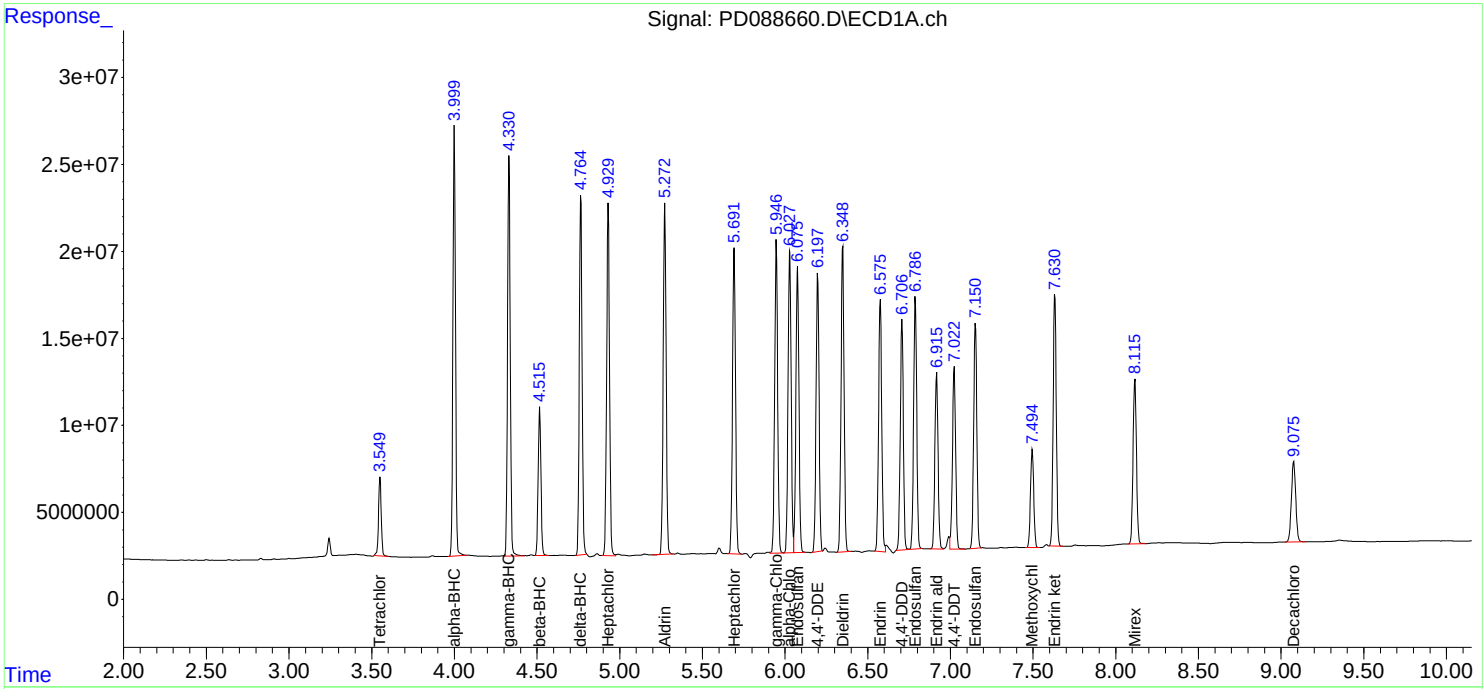
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD052025\
Data File : PD088660.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 May 2025 17:25
Operator : AR\AJ
Sample : PB168075BS
Misc :
ALS Vial : 29 Sample Multiplier: 1

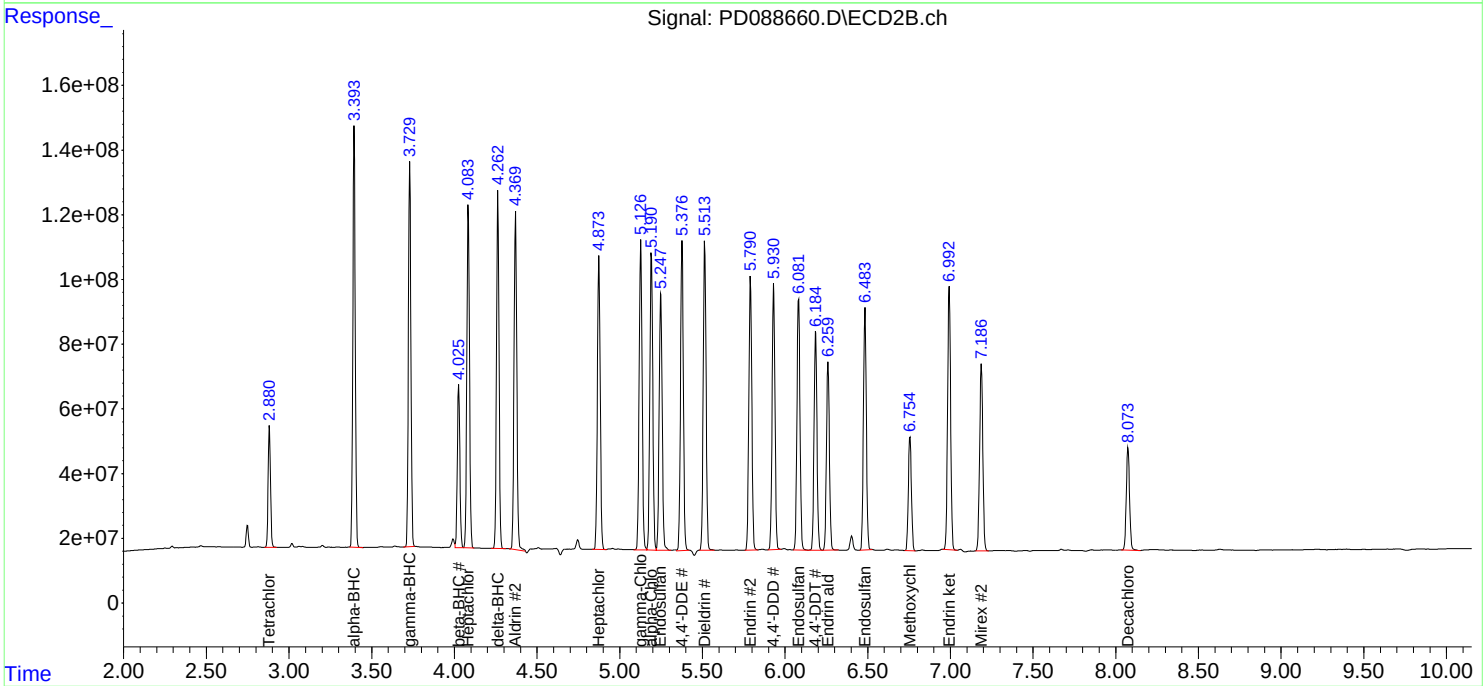
Instrument :
ECD_D
ClientSampleId :
PB168075BS

Manual Integrations APPROVED
Reviewed By :Abdul Mirza 05/21/2025
Supervised By :mohammad ahmed 05/22/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 21 03:35:08 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\PD052025\
Data File : PD088665.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 May 2025 18:33
Operator : AR\AJ
Sample : Q2074-04MS
Misc :
ALS Vial : 34 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
TP-20MS

Manual Integrations APPROVED
Reviewed By :Abdul Mirza 05/21/2025
Supervised By :mohammad ahmed 05/22/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 21 03:36:04 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	38454386	297.3E6	17.772	19.652
28)	SA	Decachlor...	9.076	8.075	59283932	304.4E6	17.323	16.672
		Target Compounds						
2)	A	alpha-BHC	4.000	3.394	217.3E6	1099.4E6	45.496	45.994
3)	MA	gamma-BHC...	4.332	3.731	211.6E6	1000.4E6	45.970	45.131
4)	MA	Heptachlor	4.931	4.084	197.2E6	983.1E6	44.102	43.780
5)	MB	Aldrin	5.273	4.371	200.0E6	990.6E6	45.521	45.173
6)	B	beta-BHC	4.517	4.027	75241909	452.4E6	41.728	46.443
7)	B	delta-BHC	4.765	4.264	203.7E6	1008.3E6	48.197	45.227
8)	B	Heptachlo...	5.693	4.874	176.7E6	881.8E6	44.529	44.376
9)	A	Endosulfan I	6.076	5.249	169.6E6	789.1E6	45.072	41.581
10)	B	gamma-Chl...	5.948	5.127	178.0E6	946.1E6	44.621	44.353
11)	B	alpha-Chl...	6.029	5.192	178.4E6	907.0E6	44.541	43.974
12)	B	4,4'-DDE	6.198	5.377	154.0E6	906.0E6	42.902	43.344
13)	MA	Dieldrin	6.349	5.515	178.7E6	936.5E6	44.545	44.505
14)	MA	Endrin	6.576	5.791	149.1E6	829.3E6	43.663	43.006
15)	B	Endosulfa...	6.788	6.082	149.7E6	789.4E6	43.471	43.087
16)	A	4,4'-DDD	6.707	5.931	134.4E6	764.8E6	48.267	43.972
17)	MA	4,4'-DDT	7.023	6.185	112.9E6	644.2E6	36.176	35.518
18)	B	Endrin al...	6.916	6.260	112.4E6	590.9E6	43.670m	42.421
19)	B	Endosulfa...	7.151	6.484	136.9E6	744.4E6	42.742	41.925
20)	A	Methoxychlor	7.496	6.756	57376907	349.3E6	34.346	36.479
21)	B	Endrin ke...	7.633	6.994	146.7E6	792.8E6	42.848	40.978
22)		Mirex	8.114	7.187	110.2E6	605.1E6	42.431m	39.800

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

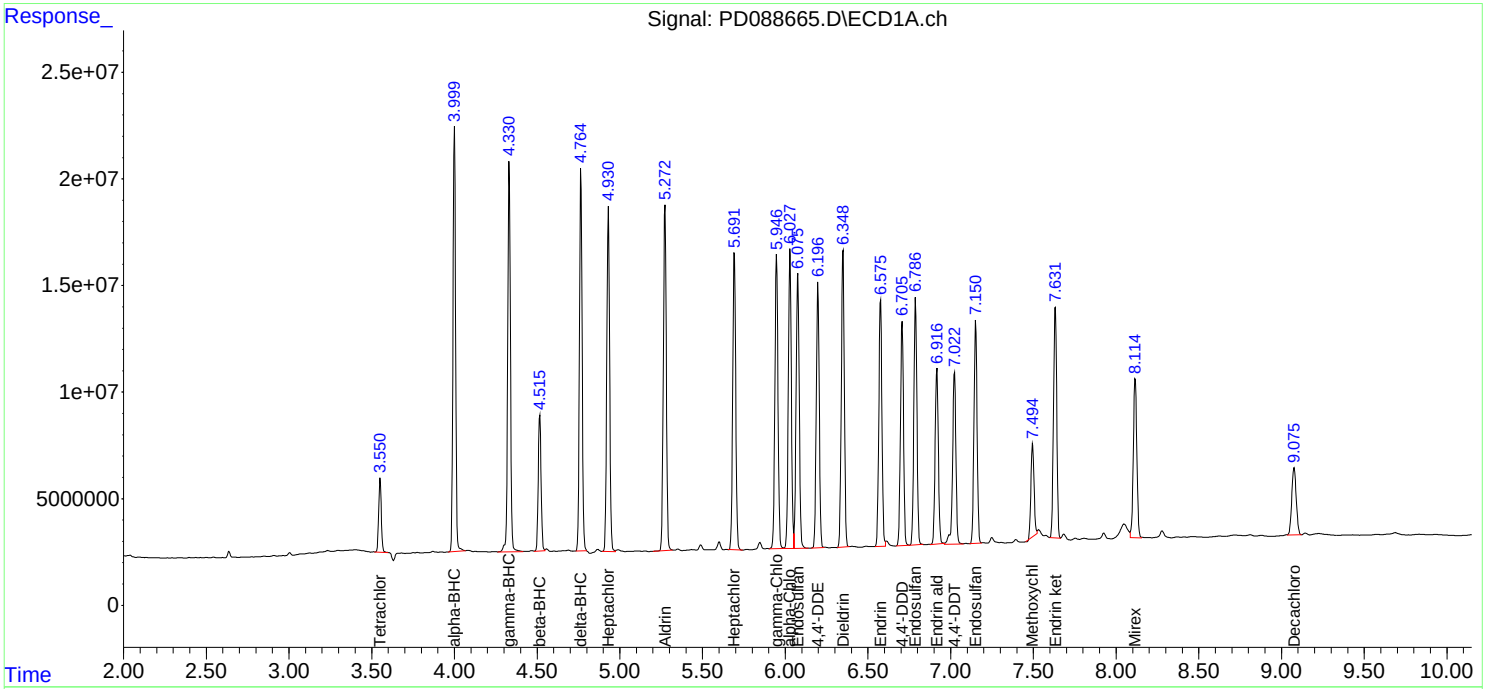
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD052025\
Data File : PD088665.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 May 2025 18:33
Operator : AR\AJ
Sample : Q2074-04MS
Misc :
ALS Vial : 34 Sample Multiplier: 1

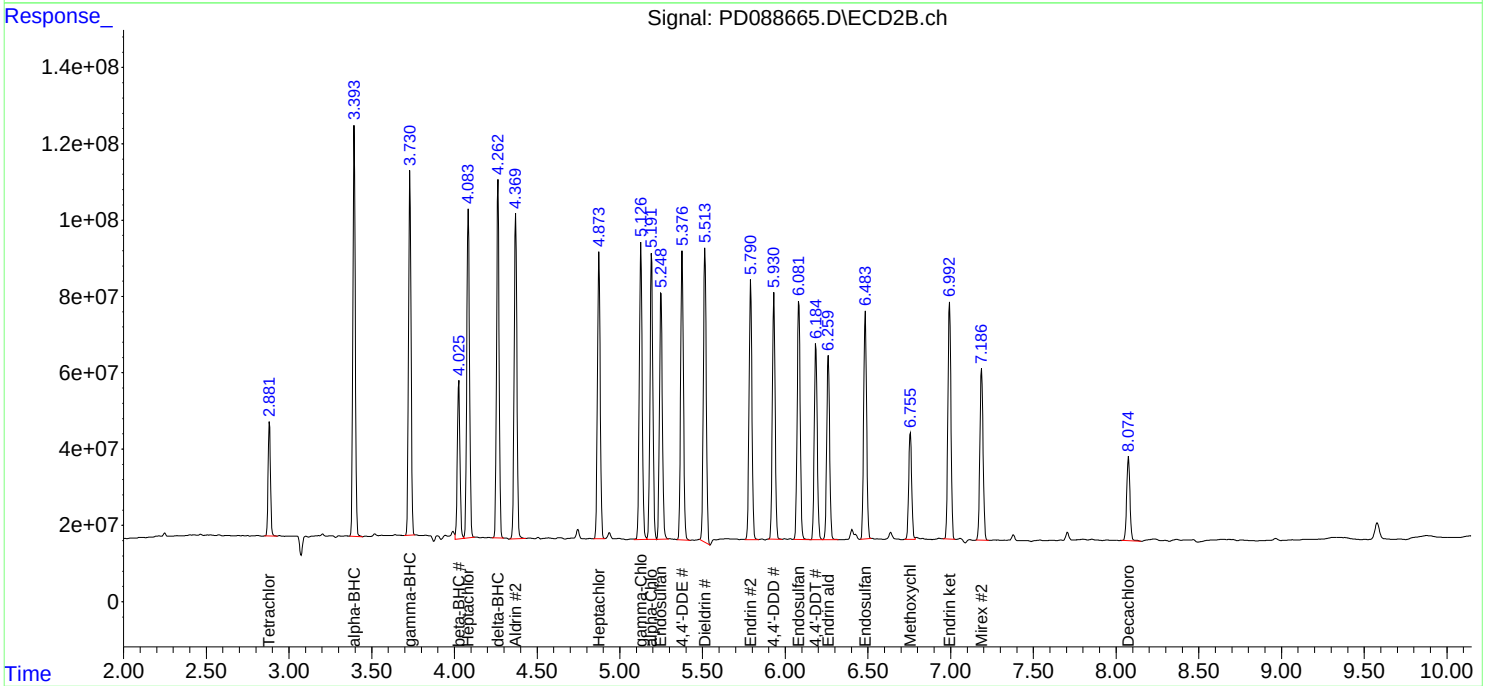
Instrument :
ECD_D
ClientSampleId :
TP-20MS

Manual Integrations APPROVED
Reviewed By :Abdul Mirza 05/21/2025
Supervised By :mohammad ahmed 05/22/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 21 03:36:04 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\PD052025\
Data File : PD088666.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 May 2025 18:47
Operator : AR\AJ
Sample : Q2074-04MSD
Misc :
ALS Vial : 35 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
TP-20MSD

Manual Integrations APPROVED
Reviewed By :Abdul Mirza 05/21/2025
Supervised By :mohammad ahmed 05/22/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 21 03:36:15 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	38531911	297.7E6	17.808	19.680
28)	SA	Decachlor...	9.076	8.074	60216282	301.3E6	17.595	16.503
		Target Compounds						
2)	A	alpha-BHC	4.001	3.394	216.4E6	1099.2E6	45.294	45.984
3)	MA	gamma-BHC...	4.332	3.731	211.1E6	1001.7E6	45.858	45.190
4)	MA	Heptachlor	4.931	4.084	195.1E6	980.6E6	43.624	43.672
5)	MB	Aldrin	5.273	4.370	199.3E6	988.7E6	45.356	45.084
6)	B	beta-BHC	4.517	4.027	74900712	453.1E6	41.539	46.508
7)	B	delta-BHC	4.765	4.263	201.0E6	1005.5E6	47.568	45.101
8)	B	Heptachlo...	5.692	4.874	176.0E6	873.8E6	44.343	43.973
9)	A	Endosulfan I	6.076	5.249	168.6E6	785.6E6	44.800	41.393
10)	B	gamma-Chl...	5.947	5.127	177.5E6	944.6E6	44.492	44.282
11)	B	alpha-Chl...	6.029	5.192	177.8E6	904.8E6	44.373	43.869
12)	B	4,4'-DDE	6.198	5.377	152.8E6	898.0E6	42.576	42.963
13)	MA	Dieldrin	6.349	5.514	177.2E6	933.8E6	44.174	44.375
14)	MA	Endrin	6.576	5.791	147.5E6	828.2E6	43.203	42.945
15)	B	Endosulfa...	6.787	6.082	148.6E6	788.8E6	43.162	43.053
16)	A	4,4'-DDD	6.706	5.931	133.2E6	761.0E6	47.837	43.754
17)	MA	4,4'-DDT	7.023	6.185	111.2E6	644.7E6	35.608	35.545
18)	B	Endrin al...	6.916	6.260	112.2E6	588.5E6	43.585	42.249
19)	B	Endosulfa...	7.151	6.483	136.1E6	742.7E6	42.480	41.829
20)	A	Methoxychlor	7.495	6.754	55705340	348.6E6	33.345	36.410m
21)	B	Endrin ke...	7.632	6.993	146.5E6	790.4E6	42.790	40.850
22)		Mirex	8.115	7.186	102.9E6	602.7E6	39.618m	39.644

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD052025\
Data File : PD088666.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 May 2025 18:47
Operator : AR\AJ
Sample : Q2074-04MSD
Misc :
ALS Vial : 35 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
TP-20MSD

Manual Integrations APPROVED
Reviewed By :Abdul Mirza 05/21/2025
Supervised By :mohammad ahmed 05/22/2025

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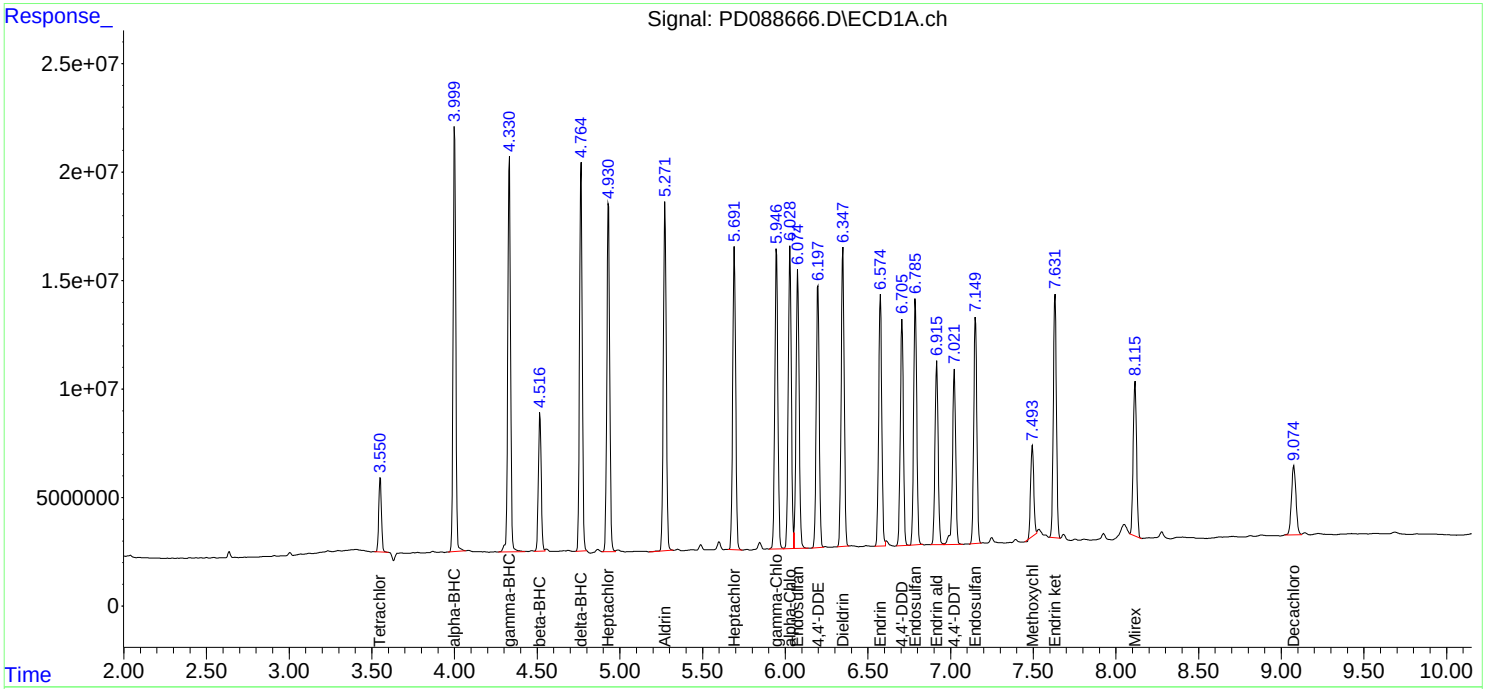
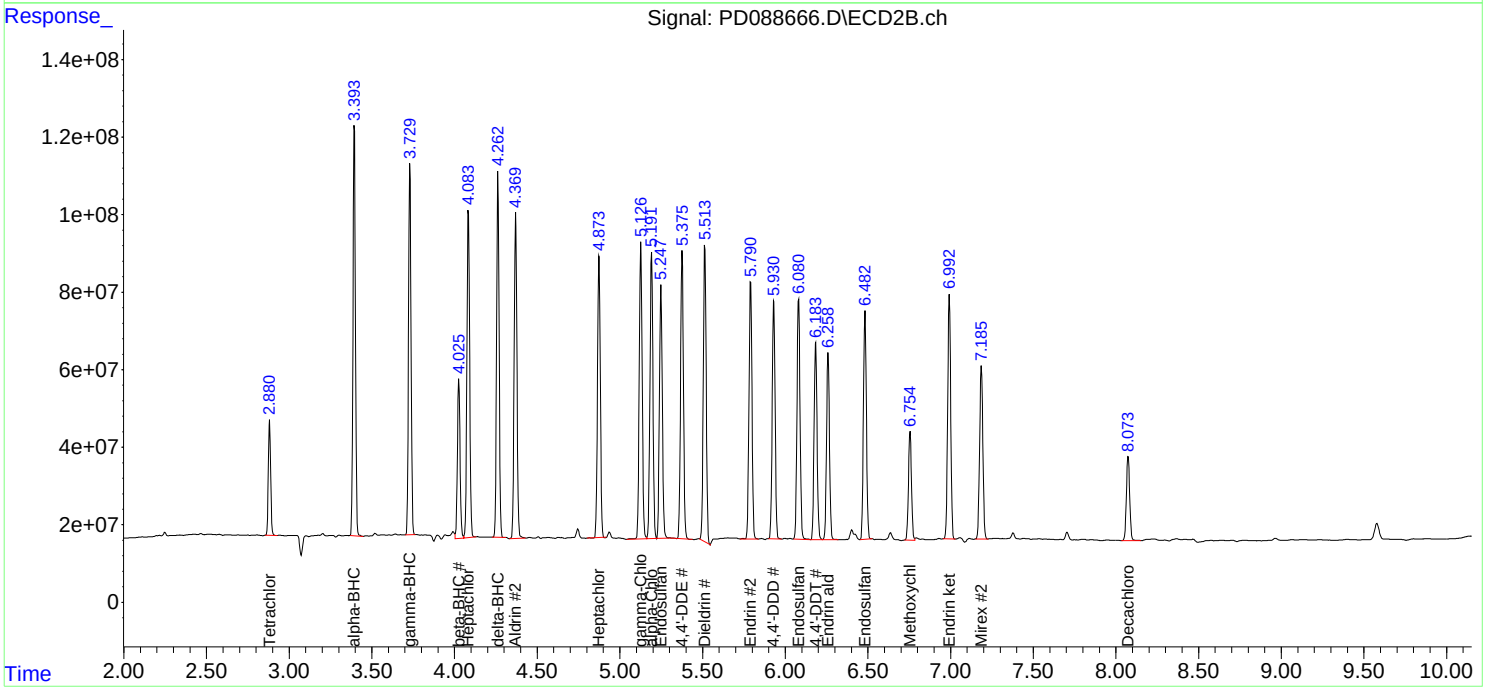
Integration File signal 2: autoint2.e
Quant Time: May 21 03:36:15 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD051925.M
Quant Title : GC Extractables
QLast Update : Mon May 19 15:27:28 2025
Response via : Initial Calibration
Integrator: ChemStation

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:	PD052025	Instrument	ECD_d

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
PSTDCCC050	PD088630.D	4,4"-DDE #2	Abdul	5/21/2025 10:23:42 AM	mohammad	5/22/2025 6:40:41	Peak Integrated by Software
PSTDCCC050	PD088630.D	delta-BHC	Abdul	5/21/2025 10:23:42 AM	mohammad	5/22/2025 6:40:41	Peak Integrated by Software
PSTDCCC050	PD088642.D	4,4"-DDE #2	Abdul	5/21/2025 10:24:15 AM	mohammad	5/22/2025 6:40:41	Peak Integrated by Software
PEM	PD088657.D	Endrin ketone	Abdul	5/21/2025 10:24:51 AM	mohammad	5/22/2025 6:40:41	Peak Integrated by Software
PSTDCCC050	PD088658.D	4,4"-DDE #2	Abdul	5/21/2025 10:28:05 AM	mohammad	5/22/2025 6:40:41	Peak Integrated by Software
PSTDCCC050	PD088658.D	4,4"-DDT	Abdul	5/21/2025 10:28:05 AM	mohammad	5/22/2025 6:40:41	Peak Integrated by Software
PB168075BS	PD088660.D	4,4"-DDE #2	Abdul	5/21/2025 10:24:55 AM	mohammad	5/22/2025 6:40:41	Peak Integrated by Software
Q2074-01	PD088661.D	Endosulfan Sulfate	Abdul	5/21/2025 10:24:58 AM	mohammad	5/22/2025 6:40:41	Peak Integrated by Software
Q2074-01	PD088661.D	Endosulfan Sulfate #2	Abdul	5/21/2025 10:24:58 AM	mohammad	5/22/2025 6:40:41	Peak Integrated by Software
Q2074-03	PD088663.D	alpha-Chlordane #2	Abdul	5/21/2025 10:25:02 AM	mohammad	5/22/2025 6:40:41	Peak Integrated by Software
Q2074-03	PD088663.D	Decachlorobiphenyl #2	Abdul	5/21/2025 10:25:02 AM	mohammad	5/22/2025 6:40:41	Peak Integrated by Software
Q2074-03	PD088663.D	Tetrachloro-m-xylene #2	Abdul	5/21/2025 10:25:02 AM	mohammad	5/22/2025 6:40:41	Peak Integrated by Software
Q2074-04MS	PD088665.D	Endrin aldehyde	Abdul	5/21/2025 10:25:06 AM	mohammad	5/22/2025 6:40:41	Peak Integrated by Software

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

Manual Integration Report

Sequence:	PD052025	Instrument	ECD_d

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q2074-04MS	PD088665.D	Mirex	Abdul	5/21/2025 10:25:06 AM	mohammad	5/22/2025 6:40:41	Peak Integrated by Software
Q2074-04MSD	PD088666.D	Methoxychlor #2	Abdul	5/21/2025 10:25:10 AM	mohammad	5/22/2025 6:40:41	Peak Integrated by Software
Q2074-04MSD	PD088666.D	Mirex	Abdul	5/21/2025 10:25:10 AM	mohammad	5/22/2025 6:40:41	Peak Integrated by Software
Q2074-07	PD088669.D	Decachlorobiphenyl	Abdul	5/21/2025 10:25:14 AM	mohammad	5/22/2025 6:40:41	Peak Integrated by Software
PSTDCCC050	PD088674.D	4,4"-DDE #2	Abdul	5/21/2025 10:25:19 AM	mohammad	5/22/2025 6:40:41	Peak Integrated by Software
PSTDCCC050	PD088674.D	4,4"-DDT	Abdul	5/21/2025 10:25:19 AM	mohammad	5/22/2025 6:40:41	Peak Integrated by Software

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

Instrument ID: ECD_D

Daily Analysis Runlog For Sequence/QCBatch ID # 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 # PD052025

Review By	Abdul	Review On	5/21/2025 10:28:21 AM		
Supervise By	mohammad	Supervise On	5/22/2025 6:40:41 AM		
SubDirectory	PD052025	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	PD088627.D	20 May 2025 07:58	AR\AJ	Ok
2	I.BLK	PD088628.D	20 May 2025 08:11	AR\AJ	Ok
3	PEM	PD088629.D	20 May 2025 08:25	AR\AJ	Ok
4	PSTDCCC050	PD088630.D	20 May 2025 09:23	AR\AJ	Ok,M
5	PB168050BL	PD088631.D	20 May 2025 09:40	AR\AJ	Ok
6	PB168050BS	PD088632.D	20 May 2025 10:47	AR\AJ	Ok
7	PB168066BS	PD088633.D	20 May 2025 11:01	AR\AJ	Ok
8	Q2068-01	PD088634.D	20 May 2025 11:16	AR\AJ	Ok,M
9	Q2062-01	PD088635.D	20 May 2025 11:37	AR\AJ	Ok,M
10	Q2062-01MS	PD088636.D	20 May 2025 11:50	AR\AJ	Ok,M
11	Q2062-01MSD	PD088637.D	20 May 2025 12:04	AR\AJ	Ok,M
12	Q2062-05	PD088638.D	20 May 2025 12:17	AR\AJ	Ok,M
13	Q2062-09	PD088639.D	20 May 2025 12:31	AR\AJ	Ok,M
14	Q2062-13	PD088640.D	20 May 2025 12:44	AR\AJ	Ok,M
15	I.BLK	PD088641.D	20 May 2025 12:58	AR\AJ	Ok
16	PSTDCCC050	PD088642.D	20 May 2025 13:11	AR\AJ	Ok,M
17	Q2062-17	PD088643.D	20 May 2025 13:25	AR\AJ	Ok,M
18	Q2062-21	PD088644.D	20 May 2025 13:39	AR\AJ	Ok,M
19	Q2071-01	PD088645.D	20 May 2025 13:52	AR\AJ	Ok
20	Q2071-05	PD088646.D	20 May 2025 14:06	AR\AJ	Ok,M
21	Q2071-09	PD088647.D	20 May 2025 14:19	AR\AJ	Ok

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Instrument ID: ECD_D

Daily Analysis Runlog For Sequence/QCBatch ID # PD052025

Review By	Abdul	Review On	5/21/2025 10:28:21 AM		
Supervise By	mohammad	Supervise On	5/22/2025 6:40:41 AM		
SubDirectory	PD052025	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	Q2071-13	PD088648.D	20 May 2025 14:33	AR\AJ	Ok
23	Q2071-17	PD088649.D	20 May 2025 14:47	AR\AJ	Ok,M
24	Q2065-01	PD088650.D	20 May 2025 15:00	AR\AJ	ReRun
25	Q2067-01	PD088651.D	20 May 2025 15:14	AR\AJ	ReRun
26	Q2068-03	PD088652.D	20 May 2025 15:28	AR\AJ	Ok,M
27	PB168082BL	PD088653.D	20 May 2025 15:41	AR\AJ	Ok
28	PB168082BS	PD088654.D	20 May 2025 15:55	AR\AJ	Ok
29	PB168082BSD	PD088655.D	20 May 2025 16:16	AR\AJ	Ok,M
30	I.BLK	PD088656.D	20 May 2025 16:30	AR\AJ	Ok
31	PEM	PD088657.D	20 May 2025 16:44	AR\AJ	Ok,M
32	PSTDCCC050	PD088658.D	20 May 2025 16:57	AR\AJ	Ok,M
33	PB168075BL	PD088659.D	20 May 2025 17:11	AR\AJ	Ok
34	PB168075BS	PD088660.D	20 May 2025 17:25	AR\AJ	Ok,M
35	Q2074-01	PD088661.D	20 May 2025 17:38	AR\AJ	Ok,M
36	Q2074-02	PD088662.D	20 May 2025 17:52	AR\AJ	Ok
37	Q2074-03	PD088663.D	20 May 2025 18:06	AR\AJ	Ok,M
38	Q2074-04	PD088664.D	20 May 2025 18:19	AR\AJ	Ok
39	Q2074-04MS	PD088665.D	20 May 2025 18:33	AR\AJ	Ok,M
40	Q2074-04MSD	PD088666.D	20 May 2025 18:47	AR\AJ	Ok,M
41	Q2074-05	PD088667.D	20 May 2025 19:00	AR\AJ	Ok
42	Q2074-06	PD088668.D	20 May 2025 19:14	AR\AJ	Ok
43	Q2074-07	PD088669.D	20 May 2025 19:28	AR\AJ	Ok,M
44	Q2074-08	PD088670.D	20 May 2025 19:41	AR\AJ	Ok

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Instrument ID: ECD_D

Daily Analysis Runlog For Sequence/QCBatch ID # PD052025

Review By	Abdul	Review On	5/21/2025 10:28:21 AM		
Supervise By	mohammad	Supervise On	5/22/2025 6:40:41 AM		
SubDirectory	PD052025	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	Q2080-01	PD088671.D	20 May 2025 19:55	AR\AJ	Ok
46	Q2080-07	PD088672.D	20 May 2025 20:09	AR\AJ	Ok
47	I.BLK	PD088673.D	20 May 2025 20:22	AR\AJ	Ok
48	PSTDCCC050	PD088674.D	20 May 2025 20:36	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 # PD052025

Review By	Abdul	Review On	5/21/2025 10:28:21 AM		
Supervise By	mohammad	Supervise On	5/22/2025 6:40:41 AM		
SubDirectory	PD052025	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	PD088627.D	20 May 2025 07:58		AR\AJ	Ok
2	I.BLK	I.BLK	PD088628.D	20 May 2025 08:11		AR\AJ	Ok
3	PEM	PEM	PD088629.D	20 May 2025 08:25		AR\AJ	Ok
4	PSTDCCC050	PSTDCCC050	PD088630.D	20 May 2025 09:23		AR\AJ	Ok,M
5	PB168050BL	PB168050BL	PD088631.D	20 May 2025 09:40		AR\AJ	Ok
6	PB168050BS	PB168050BS	PD088632.D	20 May 2025 10:47		AR\AJ	Ok
7	PB168066BS	PB168066BS	PD088633.D	20 May 2025 11:01		AR\AJ	Ok
8	Q2068-01	LAW-25-0075	PD088634.D	20 May 2025 11:16		AR\AJ	Ok,M
9	Q2062-01	L1-WC-1	PD088635.D	20 May 2025 11:37		AR\AJ	Ok,M
10	Q2062-01MS	L1-WC-1MS	PD088636.D	20 May 2025 11:50		AR\AJ	Ok,M
11	Q2062-01MSD	L1-WC-1MSD	PD088637.D	20 May 2025 12:04		AR\AJ	Ok,M
12	Q2062-05	L1-WC-2	PD088638.D	20 May 2025 12:17		AR\AJ	Ok,M
13	Q2062-09	L1-WC-3	PD088639.D	20 May 2025 12:31		AR\AJ	Ok,M
14	Q2062-13	L1-WC-4	PD088640.D	20 May 2025 12:44		AR\AJ	Ok,M
15	I.BLK	I.BLK	PD088641.D	20 May 2025 12:58		AR\AJ	Ok
16	PSTDCCC050	PSTDCCC050	PD088642.D	20 May 2025 13:11		AR\AJ	Ok,M
17	Q2062-17	L1-WC-5	PD088643.D	20 May 2025 13:25		AR\AJ	Ok,M
18	Q2062-21	L1-WC-6	PD088644.D	20 May 2025 13:39		AR\AJ	Ok,M

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Instrument ID: ECD_D

Daily Analysis Runlog For Sequence/QCBatch ID # PD052025

Review By	Abdul	Review On	5/21/2025 10:28:21 AM		
Supervise By	mohammad	Supervise On	5/22/2025 6:40:41 AM		
SubDirectory	PD052025	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	Q2071-01	L1-WC-7	PD088645.D	20 May 2025 13:52		AR\AJ	Ok
20	Q2071-05	L1-WC-8	PD088646.D	20 May 2025 14:06		AR\AJ	Ok,M
21	Q2071-09	L1-WC-9	PD088647.D	20 May 2025 14:19		AR\AJ	Ok
22	Q2071-13	L2-WC-5	PD088648.D	20 May 2025 14:33		AR\AJ	Ok
23	Q2071-17	L2-WC-6	PD088649.D	20 May 2025 14:47		AR\AJ	Ok,M
24	Q2065-01	VACTRUCK-728068	PD088650.D	20 May 2025 15:00	TCMX low in both column	AR\AJ	ReRun
25	Q2067-01	303-PPR-FRAC	PD088651.D	20 May 2025 15:14	TCMX low in both column	AR\AJ	ReRun
26	Q2068-03	LAW-25-0074	PD088652.D	20 May 2025 15:28	DCB low in 2nd column & TCMX high in 2nd column	AR\AJ	Ok,M
27	PB168082BL	PB168082BL	PD088653.D	20 May 2025 15:41		AR\AJ	Ok
28	PB168082BS	PB168082BS	PD088654.D	20 May 2025 15:55		AR\AJ	Ok
29	PB168082BSD	PB168082BSD	PD088655.D	20 May 2025 16:16		AR\AJ	Ok,M
30	I.BLK	I.BLK	PD088656.D	20 May 2025 16:30		AR\AJ	Ok
31	PEM	PEM	PD088657.D	20 May 2025 16:44		AR\AJ	Ok,M
32	PSTDCCC050	PSTDCCC050	PD088658.D	20 May 2025 16:57		AR\AJ	Ok,M
33	PB168075BL	PB168075BL	PD088659.D	20 May 2025 17:11		AR\AJ	Ok
34	PB168075BS	PB168075BS	PD088660.D	20 May 2025 17:25		AR\AJ	Ok,M
35	Q2074-01	TP-12	PD088661.D	20 May 2025 17:38		AR\AJ	Ok,M
36	Q2074-02	TP-7	PD088662.D	20 May 2025 17:52		AR\AJ	Ok
37	Q2074-03	TP-15	PD088663.D	20 May 2025 18:06		AR\AJ	Ok,M

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Instrument ID: ECD_D

Daily Analysis Runlog For Sequence/QCBatch ID # PD052025

Review By	Abdul	Review On	5/21/2025 10:28:21 AM		
Supervise By	mohammad	Supervise On	5/22/2025 6:40:41 AM		
SubDirectory	PD052025	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	Q2074-04	TP-20	PD088664.D	20 May 2025 18:19		AR\AJ	Ok
39	Q2074-04MS	TP-20MS	PD088665.D	20 May 2025 18:33		AR\AJ	Ok,M
40	Q2074-04MSD	TP-20MSD	PD088666.D	20 May 2025 18:47		AR\AJ	Ok,M
41	Q2074-05	TP-38	PD088667.D	20 May 2025 19:00		AR\AJ	Ok
42	Q2074-06	TP-19	PD088668.D	20 May 2025 19:14		AR\AJ	Ok
43	Q2074-07	TP-40	PD088669.D	20 May 2025 19:28		AR\AJ	Ok,M
44	Q2074-08	TP-18	PD088670.D	20 May 2025 19:41		AR\AJ	Ok
45	Q2080-01	PL-HRH-COMP-01	PD088671.D	20 May 2025 19:55		AR\AJ	Ok
46	Q2080-07	PL-HRH-COMP-02	PD088672.D	20 May 2025 20:09		AR\AJ	Ok
47	I.BLK	I.BLK	PD088673.D	20 May 2025 20:22		AR\AJ	Ok
48	PSTDCCC050	PSTDCCC050	PD088674.D	20 May 2025 20:36		AR\AJ	Ok,M

M : Manual Integration

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PB168075

SOP ID: M3541-ASE Extraction-14

Clean Up SOP #: Florisil

Matrix : Solid

Weigh By: EH

Balance check: RJ

Balance ID: EX-SC-2

pH Strip Lot#: N/A

Extraction By: RJ

Filter By: RJ

pH Meter ID: N/A

Hood ID: 3,7

Extraction Start Date : 05/20/2025

Extraction Start Time : 08:45

Extraction End Date : 05/20/2025

Extraction End Time : 12:00

Concentration By: EH

Supervisor By : RUPESH

Extraction Method: ☐ Seperatory Funnel ☐ Continious Liquid/Liquid ☐ Sonication ☐ Waste Dilution ☑ Soxhlet

Standared Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Spike Sol 1	1.0ML	500 PPB	PP24285
Surrogate	1.0ML	200 PPB	PP24460
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

KD Bath Temperature: N/A

Envap ID: NEVAP-02

Envap Temperature: 40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
5/20/25	RS (Eckert Lab)	Y.P. Pest/PCB.
12:05	**Preparation Group**	**Analysis Group**

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PrepBatch ID : PB168075

Analytical Method: M3541-ASE Extraction-14

Concentration Date: 05/20/2025

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB168075BL	PBLK075	Pesticide-TCL	30.01	N/A	ritesh	Evelyn	10			U2-1
PB168075BS	PLCS075	Pesticide-TCL	30.03	N/A	ritesh	Evelyn	10			2
Q2074-01	TP-12	Pesticide-TCL	30.04	N/A	ritesh	Evelyn	10	E		3
Q2074-02	TP-7	Pesticide-TCL	30.03	N/A	ritesh	Evelyn	10	E		4
Q2074-03	TP-15	Pesticide-TCL	30.08	N/A	ritesh	Evelyn	10	E		5
Q2074-04	TP-20	Pesticide-TCL	30.05	N/A	ritesh	Evelyn	10	E		6
Q2074-04MS	TP-20MS	Pesticide-TCL	30.06	N/A	ritesh	Evelyn	10	E		U1-1
Q2074-04MS D	TP-20MSD	Pesticide-TCL	30.08	N/A	ritesh	Evelyn	10	E		2
Q2074-05	TP-38	Pesticide-TCL	30.07	N/A	ritesh	Evelyn	10	E		3
Q2074-06	TP-19	Pesticide-TCL	30.06	N/A	ritesh	Evelyn	10	E		4
Q2074-07	TP-40	Pesticide-TCL	30.04	N/A	ritesh	Evelyn	10	E		5
Q2074-08	TP-18	Pesticide-TCL	30.02	N/A	ritesh	Evelyn	10	E		6
Q2080-01	PL-HRH-COMP-01	Pesticide-TCL	30.01	N/A	ritesh	Evelyn	10	E		U3-1
Q2080-07	PL-HRH-COMP-02	Pesticide-TCL	30.08	N/A	ritesh	Evelyn	10	E		2

RS 5/20

* **Extracts relinquished on the same date as received.**

Q2074 05/20/25 8:45

WORKLIST(Hardcopy Internal Chain)

WorkList Name : Q2074P **WorkList ID :** 189619 **Department :** Extraction **Date :** 05-20-2025 08:25:33

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2074-01	TP-12	Solid	Pesticide-TCL	Cool 4 deg C	CAMP02	L31	05/16/2025	8081B
Q2074-02	TP-7	Solid	Pesticide-TCL	Cool 4 deg C	CAMP02	L31	05/16/2025	8081B
Q2074-03	TP-15	Solid	Pesticide-TCL	Cool 4 deg C	CAMP02	L31	05/16/2025	8081B
Q2074-04	TP-20	Solid	Pesticide-TCL	Cool 4 deg C	CAMP02	L31	05/16/2025	8081B
Q2074-05	TP-38	Solid	Pesticide-TCL	Cool 4 deg C	CAMP02	L31	05/16/2025	8081B
Q2074-06	TP-19	Solid	Pesticide-TCL	Cool 4 deg C	CAMP02	L31	05/16/2025	8081B
Q2074-07	TP-40	Solid	Pesticide-TCL	Cool 4 deg C	CAMP02	L31	05/16/2025	8081B
Q2074-08	TP-18	Solid	Pesticide-TCL	Cool 4 deg C	CAMP02	L31	05/16/2025	8081B
Q2080-01	PL-HRH-COMP-01	Solid	Pesticide-TCL	Cool 4 deg C	PSEG03	L31	05/19/2025	8081B
Q2080-07	PL-HRH-COMP-02	Solid	Pesticide-TCL	Cool 4 deg C	PSEG03	L31	05/19/2025	8081B

705 of 1178

Date/Time 05/20/25 8:40
Raw Sample Received by: RJ CEN.Lab
Raw Sample Relinquished by:

Date/Time 05/20/25 9:00
Raw Sample Received by:
Raw Sample Relinquished by: RJ (CEN.Lab)

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LAB CHRONICLE

OrderID:	Q2074	**OrderDate:**	5/16/2025 3:13:00 PM
Client:	CDM Smith	**Project:**	South River WM Replacement
Contact:	Marcie Ann Encinas	**Location:**	L31,VOA Ref. #2 Soil

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2074-01	**TP-12**	**SOIL**			**05/15/25**			**05/16/25**
			Pesticide-TCL	8081B		05/20/25	05/20/25	
			Gasoline Range Organics	8015D			05/20/25	
Q2074-02	**TP-7**	**SOIL**			**05/15/25**			**05/16/25**
			Pesticide-TCL	8081B		05/20/25	05/20/25	
			Gasoline Range Organics	8015D			05/20/25	
Q2074-03	**TP-15**	**SOIL**			**05/15/25**			**05/16/25**
			Pesticide-TCL	8081B		05/20/25	05/20/25	
			Gasoline Range Organics	8015D			05/20/25	
Q2074-04	**TP-20**	**SOIL**			**05/15/25**			**05/16/25**
			Pesticide-TCL	8081B		05/20/25	05/20/25	
			Gasoline Range Organics	8015D			05/20/25	
Q2074-05	**TP-38**	**SOIL**			**05/15/25**			**05/16/25**
			Pesticide-TCL	8081B		05/20/25	05/20/25	
Q2074-06	**TP-19**	**SOIL**			**05/15/25**			**05/16/25**
			Pesticide-TCL	8081B		05/20/25	05/20/25	
			Gasoline Range Organics	8015D			05/20/25	
Q2074-07	**TP-40**	**SOIL**			**05/15/25**			**05/16/25**
			Pesticide-TCL	8081B		05/20/25	05/20/25	
Q2074-08	**TP-18**	**SOIL**			**05/16/25**			**05/16/25**
			Pesticide-TCL	8081B		05/20/25	05/20/25	

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Hit Summary Sheet
SW-846

SDG No.: Q2074 **Order ID:** Q2074

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:	05/15/25
Project:	South River WM Replacement	Date Received:	05/16/25
Client Sample ID:	TP-12	SDG No.:	Q2074
Lab Sample ID:	Q2074-01	Matrix:	SOIL
Analytical Method:	8082A	% Solid:	83.5 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
PP072210.D	1	05/20/25 08:45	05/20/25 14:22	PB168074

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	4.70	U	4.70	20.3	ug/kg
11104-28-2	Aroclor-1221	4.80	U	4.80	20.3	ug/kg
11141-16-5	Aroclor-1232	4.40	U	4.40	20.3	ug/kg
53469-21-9	Aroclor-1242	4.80	U	4.80	20.3	ug/kg
12672-29-6	Aroclor-1248	7.10	U	7.10	20.3	ug/kg
11097-69-1	Aroclor-1254	3.80	U	3.80	20.3	ug/kg
37324-23-5	Aroclor-1262	6.00	U	6.00	20.3	ug/kg
11100-14-4	Aroclor-1268	4.30	U	4.30	20.3	ug/kg
11096-82-5	Aroclor-1260	3.90	U	3.90	20.3	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	19.3		32 - 144	96%	SPK: 20
2051-24-3	Decachlorobiphenyl	17.4		32 - 175	87%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

Alliance TECHNICAL GROUP
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Fax : 908 789 8922

Report of Analysis

Client:	CDM Smith	Date Collected:	05/15/25
Project:	South River WM Replacement	Date Received:	05/16/25
Client Sample ID:	TP-7	SDG No.:	Q2074
Lab Sample ID:	Q2074-02	Matrix:	SOIL
Analytical Method:	8082A	% Solid:	88.7 Decanted:
Sample Wt/Vol:	30.03 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
PP072211.D	1	05/20/25 08:45	05/20/25 14:38	PB168074

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	4.40	U	4.40	19.1	ug/kg
11104-28-2	Aroclor-1221	4.50	U	4.50	19.1	ug/kg
11141-16-5	Aroclor-1232	4.20	U	4.20	19.1	ug/kg
53469-21-9	Aroclor-1242	4.50	U	4.50	19.1	ug/kg
12672-29-6	Aroclor-1248	6.70	U	6.70	19.1	ug/kg
11097-69-1	Aroclor-1254	3.60	U	3.60	19.1	ug/kg
37324-23-5	Aroclor-1262	5.70	U	5.70	19.1	ug/kg
11100-14-4	Aroclor-1268	4.10	U	4.10	19.1	ug/kg
11096-82-5	Aroclor-1260	3.60	U	3.60	19.1	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	21.6		32 - 144	108%	SPK: 20
2051-24-3	Decachlorobiphenyl	21.0		32 - 175	105%	SPK: 20

Comments:

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Alliance TECHNICAL GROUP
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Report of Analysis

Client:	CDM Smith	Date Collected:	05/15/25
Project:	South River WM Replacement	Date Received:	05/16/25
Client Sample ID:	TP-15	SDG No.:	Q2074
Lab Sample ID:	Q2074-03	Matrix:	SOIL
Analytical Method:	8082A	% Solid:	87 Decanted:
Sample Wt/Vol:	30.08 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP072212.D	1	05/20/25 08:45	05/20/25 14:55	PB168074

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	4.50	U	4.50	19.5	ug/kg
11104-28-2	Aroclor-1221	4.60	U	4.60	19.5	ug/kg
11141-16-5	Aroclor-1232	4.30	U	4.30	19.5	ug/kg
53469-21-9	Aroclor-1242	4.60	U	4.60	19.5	ug/kg
12672-29-6	Aroclor-1248	6.80	U	6.80	19.5	ug/kg
11097-69-1	Aroclor-1254	3.70	U	3.70	19.5	ug/kg
37324-23-5	Aroclor-1262	5.80	U	5.80	19.5	ug/kg
11100-14-4	Aroclor-1268	4.10	U	4.10	19.5	ug/kg
11096-82-5	Aroclor-1260	3.70	U	3.70	19.5	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	18.8		32 - 144	94%	SPK: 20
2051-24-3	Decachlorobiphenyl	15.9		32 - 175	80%	SPK: 20

Comments:

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Alliance TECHNICAL GROUP
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Report of Analysis

Client:	CDM Smith	Date Collected:	05/15/25
Project:	South River WM Replacement	Date Received:	05/16/25
Client Sample ID:	TP-20	SDG No.:	Q2074
Lab Sample ID:	Q2074-04	Matrix:	SOIL
Analytical Method:	8082A	% Solid:	84.3 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
PP072213.D	1	05/20/25 08:45	05/20/25 15:11	PB168074

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	4.70	U	4.70	20.1	ug/kg
11104-28-2	Aroclor-1221	4.80	U	4.80	20.1	ug/kg
11141-16-5	Aroclor-1232	4.40	U	4.40	20.1	ug/kg
53469-21-9	Aroclor-1242	4.70	U	4.70	20.1	ug/kg
12672-29-6	Aroclor-1248	7.00	U	7.00	20.1	ug/kg
11097-69-1	Aroclor-1254	3.80	U	3.80	20.1	ug/kg
37324-23-5	Aroclor-1262	5.90	U	5.90	20.1	ug/kg
11100-14-4	Aroclor-1268	4.30	U	4.30	20.1	ug/kg
11096-82-5	Aroclor-1260	3.80	U	3.80	20.1	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	18.4		32 - 144	92%	SPK: 20
2051-24-3	Decachlorobiphenyl	18.1		32 - 175	91%	SPK: 20

Comments:

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Alliance TECHNICAL GROUP
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Report of Analysis

Client:	CDM Smith	Date Collected:	05/15/25
Project:	South River WM Replacement	Date Received:	05/16/25
Client Sample ID:	TP-38	SDG No.:	Q2074
Lab Sample ID:	Q2074-05	Matrix:	SOIL
Analytical Method:	8082A	% Solid:	81.9 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
PP072214.D	1	05/20/25 08:45	05/20/25 15:27	PB168074

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	4.80	U	4.80	20.7	ug/kg
11104-28-2	Aroclor-1221	4.90	U	4.90	20.7	ug/kg
11141-16-5	Aroclor-1232	4.50	U	4.50	20.7	ug/kg
53469-21-9	Aroclor-1242	4.90	U	4.90	20.7	ug/kg
12672-29-6	Aroclor-1248	7.20	U	7.20	20.7	ug/kg
11097-69-1	Aroclor-1254	3.90	U	3.90	20.7	ug/kg
37324-23-5	Aroclor-1262	6.10	U	6.10	20.7	ug/kg
11100-14-4	Aroclor-1268	4.40	U	4.40	20.7	ug/kg
11096-82-5	Aroclor-1260	3.90	U	3.90	20.7	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	18.6		32 - 144	93%	SPK: 20
2051-24-3	Decachlorobiphenyl	16.1		32 - 175	80%	SPK: 20

Comments:

U = Not Detected
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() = 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:	05/15/25
Project:	South River WM Replacement	Date Received:	05/16/25
Client Sample ID:	TP-19	SDG No.:	Q2074
Lab Sample ID:	Q2074-06	Matrix:	SOIL
Analytical Method:	8082A	% Solid:	85.9 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
PP072215.D	1	05/20/25 08:45	05/20/25 15:44	PB168074

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	4.60	U	4.60	19.8	ug/kg
11104-28-2	Aroclor-1221	4.70	U	4.70	19.8	ug/kg
11141-16-5	Aroclor-1232	4.30	U	4.30	19.8	ug/kg
53469-21-9	Aroclor-1242	4.70	U	4.70	19.8	ug/kg
12672-29-6	Aroclor-1248	6.90	U	6.90	19.8	ug/kg
11097-69-1	Aroclor-1254	3.70	U	3.70	19.8	ug/kg
37324-23-5	Aroclor-1262	5.80	U	5.80	19.8	ug/kg
11100-14-4	Aroclor-1268	4.20	U	4.20	19.8	ug/kg
11096-82-5	Aroclor-1260	3.80	U	3.80	19.8	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	18.8		32 - 144	94%	SPK: 20
2051-24-3	Decachlorobiphenyl	17.2		32 - 175	86%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

Alliance TECHNICAL GROUP
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Report of Analysis

Client:	CDM Smith	Date Collected:	05/15/25
Project:	South River WM Replacement	Date Received:	05/16/25
Client Sample ID:	TP-40	SDG No.:	Q2074
Lab Sample ID:	Q2074-07	Matrix:	SOIL
Analytical Method:	8082A	% Solid:	89.2 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
PP072216.D	1	05/20/25 08:45	05/20/25 16:00	PB168074

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	4.40	U	4.40	19.0	ug/kg
11104-28-2	Aroclor-1221	4.50	U	4.50	19.0	ug/kg
11141-16-5	Aroclor-1232	4.20	U	4.20	19.0	ug/kg
53469-21-9	Aroclor-1242	4.50	U	4.50	19.0	ug/kg
12672-29-6	Aroclor-1248	6.60	U	6.60	19.0	ug/kg
11097-69-1	Aroclor-1254	3.60	U	3.60	19.0	ug/kg
37324-23-5	Aroclor-1262	5.60	U	5.60	19.0	ug/kg
11100-14-4	Aroclor-1268	4.00	U	4.00	19.0	ug/kg
11096-82-5	Aroclor-1260	3.60	U	3.60	19.0	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	20.2		32 - 144	101%	SPK: 20
2051-24-3	Decachlorobiphenyl	16.5		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

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Report of Analysis

Client:	CDM Smith	Date Collected:	05/16/25
Project:	South River WM Replacement	Date Received:	05/16/25
Client Sample ID:	TP-18	SDG No.:	Q2074
Lab Sample ID:	Q2074-08	Matrix:	SOIL
Analytical Method:	8082A	% Solid:	78 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
PP072217.D	1	05/20/25 08:45	05/20/25 16:16	PB168074

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	5.10	U	5.10	21.8	ug/kg
11104-28-2	Aroclor-1221	5.20	U	5.20	21.8	ug/kg
11141-16-5	Aroclor-1232	4.80	U	4.80	21.8	ug/kg
53469-21-9	Aroclor-1242	5.10	U	5.10	21.8	ug/kg
12672-29-6	Aroclor-1248	7.60	U	7.60	21.8	ug/kg
11097-69-1	Aroclor-1254	4.10	U	4.10	21.8	ug/kg
37324-23-5	Aroclor-1262	6.40	U	6.40	21.8	ug/kg
11100-14-4	Aroclor-1268	4.60	U	4.60	21.8	ug/kg
11096-82-5	Aroclor-1260	4.10	U	4.10	21.8	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	18.6		32 - 144	93%	SPK: 20
2051-24-3	Decachlorobiphenyl	16.4		32 - 175	82%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

QC SUMMARY

Alliance TECHNICAL GROUP
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Surrogate Summary

SDG No.: Q2074

Client: CDM Smith

Analytical Method: 8082A

Lab Sample ID	Client ID	Parameter	Column	Spike	Result	Rec	Qual	Limits Low	Limits High
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-PP072207.D	PIBLK-PP072207.D	Tetrachloro-m-xylene	1	20	16.3	82		60	140
		Decachlorobiphenyl	1	20	17.3	87		60	140
		Tetrachloro-m-xylene	2	20	17.5	88		60	140
		Decachlorobiphenyl	2	20	19.2	96		60	140
PB168074BL	PB168074BL	Tetrachloro-m-xylene	1	20	18.7	94		32	144
		Decachlorobiphenyl	1	20	19.3	96		32	175
		Tetrachloro-m-xylene	2	20	19.7	98		32	144
		Decachlorobiphenyl	2	20	19.9	100		32	175
PB168074BS	PB168074BS	Tetrachloro-m-xylene	1	20	20.2	101		32	144
		Decachlorobiphenyl	1	20	20.3	102		32	175
		Tetrachloro-m-xylene	2	20	19.0	95		32	144
		Decachlorobiphenyl	2	20	21.0	105		32	175
Q2074-01	TP-12	Tetrachloro-m-xylene	1	20	17.1	86		32	144
		Decachlorobiphenyl	1	20	16.5	82		32	175
		Tetrachloro-m-xylene	2	20	19.3	96		32	144
		Decachlorobiphenyl	2	20	17.4	87		32	175
Q2074-02	TP-7	Tetrachloro-m-xylene	1	20	21.2	106		32	144
		Decachlorobiphenyl	1	20	20.4	102		32	175
		Tetrachloro-m-xylene	2	20	21.6	108		32	144
		Decachlorobiphenyl	2	20	21.0	105		32	175
Q2074-03	TP-15	Tetrachloro-m-xylene	1	20	18.3	92		32	144
		Decachlorobiphenyl	1	20	14.5	72		32	175
		Tetrachloro-m-xylene	2	20	18.8	94		32	144
		Decachlorobiphenyl	2	20	15.9	80		32	175
Q2074-04	TP-20	Tetrachloro-m-xylene	1	20	18.1	91		32	144
		Decachlorobiphenyl	1	20	17.2	86		32	175
		Tetrachloro-m-xylene	2	20	18.4	92		32	144
		Decachlorobiphenyl	2	20	18.1	91		32	175
Q2074-05	TP-38	Tetrachloro-m-xylene	1	20	17.1	85		32	144
		Decachlorobiphenyl	1	20	14.3	72		32	175
		Tetrachloro-m-xylene	2	20	18.6	93		32	144
		Decachlorobiphenyl	2	20	16.1	80		32	175
Q2074-06	TP-19	Tetrachloro-m-xylene	1	20	18.1	90		32	144
		Decachlorobiphenyl	1	20	16.1	80		32	175
		Tetrachloro-m-xylene	2	20	18.8	94		32	144
		Decachlorobiphenyl	2	20	17.2	86		32	175
Q2074-07	TP-40	Tetrachloro-m-xylene	1	20	19.1	95		32	144

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Surrogate Summary

SDG No.: Q2074

Client: CDM Smith

Analytical Method: 8082A

Lab Sample ID	Client ID	Parameter	Column	Spike	Result	Rec	Qual	Limits Low	Limits High
Q2074-07	TP-40	Decachlorobiphenyl	1	20	16.2	81		32	175
		Tetrachloro-m-xylene	2	20	20.2	101		32	144
		Decachlorobiphenyl	2	20	16.5	83		32	175
Q2074-08	TP-18	Tetrachloro-m-xylene	1	20	18.0	90		32	144
		Decachlorobiphenyl	1	20	15.7	79		32	175
		Tetrachloro-m-xylene	2	20	18.6	93		32	144
		Decachlorobiphenyl	2	20	16.4	82		32	175
I.BLK-PP072222.D	PIBLK-PP072222.D	Tetrachloro-m-xylene	1	20	16.6	83		60	140
		Decachlorobiphenyl	1	20	17.4	87		60	140
		Tetrachloro-m-xylene	2	20	17.3	86		60	140
		Decachlorobiphenyl	2	20	18.8	94		60	140
Q2080-01MS	PL-HRH-COMP-01MS	Tetrachloro-m-xylene	1	20	18.9	94		32	144
		Decachlorobiphenyl	1	20	15.2	76		32	175
		Tetrachloro-m-xylene	2	20	18.1	91		32	144
		Decachlorobiphenyl	2	20	17.3	86		32	175
Q2080-01MSD	PL-HRH-COMP-01MSD	Tetrachloro-m-xylene	1	20	20.0	100		32	144
		Decachlorobiphenyl	1	20	16.3	81		32	175
		Tetrachloro-m-xylene	2	20	19.8	99		32	144
		Decachlorobiphenyl	2	20	17.8	89		32	175
I.BLK-PP072237.D	PIBLK-PP072237.D	Tetrachloro-m-xylene	1	20	17.0	85		60	140
		Decachlorobiphenyl	1	20	17.9	89		60	140
		Tetrachloro-m-xylene	2	20	18.3	91		60	140
		Decachlorobiphenyl	2	20	19.4	97		60	140

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q2074 **Analytical Method:** 8082A

Client: CDM Smith **DataFile :** PP072224.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:	**PL-HRH-COMP-01MS**											
Q2080-01MS (Column 1)	AR1016	192.5	0	168	ug/kg	87				55	146	
	AR1260	192.5	0	153	ug/kg	79				31	146	
Client Sample ID:	**PL-HRH-COMP-01MS**											
Q2080-01MS (Column 2)	AR1016	192.5	0	168	ug/kg	87				55	146	
	AR1260	192.5	0	160	ug/kg	83				31	146	

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q2074 **Analytical Method:** 8082A

Client: CDM Smith **DataFile :** PP072225.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:	**PL-HRH-COMP-01MSD**											
Q2080-01MSD (Column 1)	AR1016	192.4	0	177	ug/kg	92		6		55	146	20
	AR1260	192.4	0	162	ug/kg	84		6		31	146	20
Client Sample ID:	**PL-HRH-COMP-01MSD**											
Q2080-01MSD (Column 2)	AR1016	192.4	0	179	ug/kg	93		7		55	146	20
	AR1260	192.4	0	169	ug/kg	88		6		31	146	20

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2074 **Analytical Method:** 8082A

Client: CDM Smith **Datafile :** PP072209.D

Lab Sample ID	Parameter	Spike	Result	Units	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB168074BS (Column 1)	AR1016	166.6	138	ug/kg	83				71	120	
	AR1260	166.6	140	ug/kg	84				65	130	
PB168074BS (Column 2)	AR1016	166.6	141	ug/kg	85				71	120	
	AR1260	166.6	139	ug/kg	83				65	130	

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4C

PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB168074BL

Lab Name: CHEMTECH Contract: CAMP02

Lab Code: CHEM Case No.: Q2074 SAS No.: Q2074 SDG NO.: Q2074

Lab Sample ID: PB168074BL Lab File ID: PP072208.D

Matrix: (soil/water) Solid Extraction: (Type) SOXH

Sulfur Cleanup: (Y/N) N Date Extracted: 05/20/2025

Date Analyzed (1): 05/20/2025 Date Analyzed (2): 05/20/2025

Time Analyzed (1): 13:49 Time Analyzed (2): 13:49

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
PB168074BS	PB168074BS	PP072209.D	05/20/2025	05/20/2025
TP-12	Q2074-01	PP072210.D	05/20/2025	05/20/2025
TP-7	Q2074-02	PP072211.D	05/20/2025	05/20/2025
TP-15	Q2074-03	PP072212.D	05/20/2025	05/20/2025
TP-20	Q2074-04	PP072213.D	05/20/2025	05/20/2025
TP-38	Q2074-05	PP072214.D	05/20/2025	05/20/2025
TP-19	Q2074-06	PP072215.D	05/20/2025	05/20/2025
TP-40	Q2074-07	PP072216.D	05/20/2025	05/20/2025
TP-18	Q2074-08	PP072217.D	05/20/2025	05/20/2025
PL-HRH-COMP-01MS	Q2080-01MS	PP072224.D	05/20/2025	05/20/2025
PL-HRH-COMP-01MSD	Q2080-01MSD	PP072225.D	05/20/2025	05/20/2025

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:	PB168074BL	SDG No.:	Q2074
Lab Sample ID:	PB168074BL	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
PP072208.D	1	05/20/25 08:45	05/20/25 13:49	PB168074

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	19.7		32 - 144	98%	SPK: 20
2051-24-3	Decachlorobiphenyl	19.9		32 - 175	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:	05/19/25
Project:	South River WM Replacement	Date Received:	05/19/25
Client Sample ID:	PIBLK-PP072163.D	SDG No.:	Q2074
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
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:	PIBLK-PP072207.D	SDG No.:	Q2074
Lab Sample ID:	I.BLK-PP072207.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
PP072207.D	1		05/20/25	PP052025

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	17.3		60 - 140	87%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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:	PIBLK-PP072222.D	SDG No.:	Q2074
Lab Sample ID:	I.BLK-PP072222.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
PP072222.D	1		05/20/25	PP052025

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	16.6		60 - 140	83%	SPK: 20
2051-24-3	Decachlorobiphenyl	17.4		60 - 140	87%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	CDM Smith	Date Collected:	05/21/25
Project:	South River WM Replacement	Date Received:	05/21/25
Client Sample ID:	PIBLK-PP072237.D	SDG No.:	Q2074
Lab Sample ID:	I.BLK-PP072237.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
PP072237.D	1		05/21/25	PP052025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	0.097	U	0.097	0.50	ug/L
11104-28-2	Aroclor-1221	0.13	U	0.13	0.50	ug/L
11141-16-5	Aroclor-1232	0.096	U	0.096	0.50	ug/L
53469-21-9	Aroclor-1242	0.12	U	0.12	0.50	ug/L
12672-29-6	Aroclor-1248	0.071	U	0.071	0.50	ug/L
11097-69-1	Aroclor-1254	0.094	U	0.094	0.50	ug/L
11096-82-5	Aroclor-1260	0.081	U	0.081	0.50	ug/L
37324-23-5	Aroclor-1262	0.14	U	0.14	0.50	ug/L
11100-14-4	Aroclor-1268	0.11	U	0.11	0.50	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	17.0		60 - 140	85%	SPK: 20
2051-24-3	Decachlorobiphenyl	17.9		60 - 140	89%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements
J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	PB168074BS	SDG No.:	Q2074
Lab Sample ID:	PB168074BS	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
PP072209.D	1	05/20/25 08:45	05/20/25 14:06	PB168074

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	141		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	140		3.20	17.0	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	20.2		32 - 144	101%	SPK: 20
2051-24-3	Decachlorobiphenyl	21.0		32 - 175	105%	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:	05/19/25
Client Sample ID:	PL-HRH-COMP-01MS	SDG No.:	Q2074
Lab Sample ID:	Q2080-01MS	Matrix:	SOIL
Analytical Method:	8082A	% Solid:	86.5 Decanted:
Sample Wt/Vol:	30.03 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
PP072224.D	1	05/20/25 08:45	05/20/25 19:16	PB168074

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	168		4.60	19.6	ug/kg
11104-28-2	Aroclor-1221	4.70	U	4.70	19.6	ug/kg
11141-16-5	Aroclor-1232	4.30	U	4.30	19.6	ug/kg
53469-21-9	Aroclor-1242	4.60	U	4.60	19.6	ug/kg
12672-29-6	Aroclor-1248	6.80	U	6.80	19.6	ug/kg
11097-69-1	Aroclor-1254	3.70	U	3.70	19.6	ug/kg
37324-23-5	Aroclor-1262	5.80	U	5.80	19.6	ug/kg
11100-14-4	Aroclor-1268	4.20	U	4.20	19.6	ug/kg
11096-82-5	Aroclor-1260	160		3.70	19.6	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	18.9		32 - 144	94%	SPK: 20
2051-24-3	Decachlorobiphenyl	17.3		32 - 175	86%	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:	05/19/25
Client Sample ID:	PL-HRH-COMP-01MSD	SDG No.:	Q2074
Lab Sample ID:	Q2080-01MSD	Matrix:	SOIL
Analytical Method:	8082A	% Solid:	86.5 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
PP072225.D	1	05/20/25 08:45	05/20/25 19:32	PB168074

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	179		4.60	19.6	ug/kg
11104-28-2	Aroclor-1221	4.70	U	4.70	19.6	ug/kg
11141-16-5	Aroclor-1232	4.30	U	4.30	19.6	ug/kg
53469-21-9	Aroclor-1242	4.60	U	4.60	19.6	ug/kg
12672-29-6	Aroclor-1248	6.80	U	6.80	19.6	ug/kg
11097-69-1	Aroclor-1254	3.70	U	3.70	19.6	ug/kg
37324-23-5	Aroclor-1262	5.80	U	5.80	19.6	ug/kg
11100-14-4	Aroclor-1268	4.20	U	4.20	19.6	ug/kg
11096-82-5	Aroclor-1260	169		3.70	19.6	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	20.0		32 - 144	100%	SPK: 20
2051-24-3	Decachlorobiphenyl	17.8		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
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() = Laboratory InHouse Limit

CALIBRATION SUMMARY

Alliance TECHNICAL GROUP
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RETENTION TIMES OF INITIAL CALIBRATION

Contract: CAMP02

Lab Code: CHEM **Case No.:** Q2074 **SAS No.:** Q2074 **SDG NO.:** Q2074

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.:** Q2074 **SAS No.:** Q2074 **SDG NO.:** Q2074

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.:** Q2074 **SAS No.:** Q2074 **SDG NO.:** Q2074

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.:** Q2074 **SAS No.:** Q2074 **SDG NO.:** Q2074

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.:** Q2074 **SAS No.:** Q2074 **SDG NO.:** Q2074

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.:** Q2074 **SAS No.:** Q2074 **SDG NO.:** Q2074

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.:** Q2074 **SAS No.:** Q2074 **SDG NO.:** Q2074

Continuing Calib Date: 05/20/2025 **Initial Calibration Date(s):** 05/19/2025 05/19/2025

Continuing Calib Time: 09:51 **Initial Calibration Time(s):** 09:42 18:25

GC Column: ZB-MR1 **ID:** 0.32 **(mm)**

COMPOUND		CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Aroclor-1016-1	(1)	5.65	5.65	5.55	5.75	0.00
Aroclor-1016-2	(2)	5.68	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.:** Q2074 **SAS No.:** Q2074 **SDG NO.:** Q2074

Continuing Calib Date: 05/20/2025 **Initial Calibration Date(s):** 05/19/2025 05/19/2025

Continuing Calib Time: 09:51 **Initial Calibration Time(s):** 09:42 18:25

GC Column: ZB-MR2 **ID:** 0.32 **(mm)**

COMPOUND		CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Aroclor-1016-1	(1)	4.88	4.88	4.78	4.98	0.00
Aroclor-1016-2	(2)	4.90	4.90	4.80	5.00	0.00
Aroclor-1016-3	(3)	5.08	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	0.00
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.:** Q2074 **SAS No.:** Q2074 **SDG NO.:** Q2074

GC Column: ZB-MR1 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 05/19/2025 05/19/2025

Client Sample No.: CCAL01 **Date Analyzed:** 05/20/2025

Lab Sample No.: AR1660CCC500 **Data File :** PP072203.D **Time Analyzed:** 09:51

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	5.654	5.552	5.752	507.610	500.000	1.5
Aroclor-1016-2	5.676	5.574	5.774	481.910	500.000	-3.6
Aroclor-1016-3	5.738	5.636	5.836	466.920	500.000	-6.6
Aroclor-1016-4	5.835	5.734	5.934	484.600	500.000	-3.1
Aroclor-1016-5	6.128	6.027	6.227	488.260	500.000	-2.3
Aroclor-1260-1	7.247	7.147	7.347	486.230	500.000	-2.8
Aroclor-1260-2	7.501	7.401	7.601	484.730	500.000	-3.1
Aroclor-1260-3	7.860	7.760	7.960	496.750	500.000	-0.7
Aroclor-1260-4	8.084	7.985	8.185	497.860	500.000	-0.4
Aroclor-1260-5	8.403	8.303	8.503	493.650	500.000	-1.3
Decachlorobiphenyl	10.212	10.113	10.313	49.190	50.000	-1.6
Tetrachloro-m-xylene	4.500	4.396	4.596	49.670	50.000	-0.7

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CALIBRATION VERIFICATION SUMMARY

Contract: CAMP02

Lab Code: CHEM **Case No.:** Q2074 **SAS No.:** Q2074 **SDG NO.:** Q2074

GC Column: ZB-MR2 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 05/19/2025 05/19/2025

Client Sample No.: CCAL01 **Date Analyzed:** 05/20/2025

Lab Sample No.: AR1660CCC500 **Data File :** PP072203.D **Time Analyzed:** 09:51

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	4.880	4.777	4.977	478.800	500.000	-4.2
Aroclor-1016-2	4.897	4.795	4.995	485.950	500.000	-2.8
Aroclor-1016-3	5.075	4.973	5.173	496.170	500.000	-0.8
Aroclor-1016-4	5.116	5.015	5.215	500.020	500.000	0.0
Aroclor-1016-5	5.331	5.229	5.429	499.920	500.000	0.0
Aroclor-1260-1	6.364	6.264	6.464	498.530	500.000	-0.3
Aroclor-1260-2	6.553	6.453	6.653	476.460	500.000	-4.7
Aroclor-1260-3	6.706	6.606	6.806	514.160	500.000	2.8
Aroclor-1260-4	7.176	7.077	7.277	508.110	500.000	1.6
Aroclor-1260-5	7.418	7.319	7.519	499.410	500.000	-0.1
Decachlorobiphenyl	8.822	8.723	8.923	49.120	50.000	-1.8
Tetrachloro-m-xylene	3.796	3.691	3.891	48.100	50.000	-3.8

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CALIBRATION VERIFICATION SUMMARY

Contract: CAMP02

Lab Code: CHEM **Case No.:** Q2074 **SAS No.:** Q2074 **SDG NO.:** Q2074

Continuing Calib Date: 05/20/2025 **Initial Calibration Date(s):** 05/19/2025 05/19/2025

Continuing Calib Time: 17:22 **Initial Calibration Time(s):** 09:42 18:25

GC Column: ZB-MR1 **ID:** 0.32 **(mm)**

COMPOUND		CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Aroclor-1016-1	(1)	5.66	5.65	5.55	5.75	-0.01
Aroclor-1016-2	(2)	5.68	5.67	5.57	5.77	-0.01
Aroclor-1016-3	(3)	5.74	5.74	5.64	5.84	0.00
Aroclor-1016-4	(4)	5.84	5.83	5.73	5.93	-0.01
Aroclor-1016-5	(5)	6.13	6.13	6.03	6.23	0.00
Aroclor-1260-1	(1)	7.25	7.25	7.15	7.35	0.00
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.:** Q2074 **SAS No.:** Q2074 **SDG NO.:** Q2074

Continuing Calib Date: 05/20/2025 **Initial Calibration Date(s):** 05/19/2025 05/19/2025

Continuing Calib Time: 17:22 **Initial Calibration Time(s):** 09:42 18:25

GC Column: ZB-MR2 **ID:** 0.32 **(mm)**

COMPOUND		CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Aroclor-1016-1	(1)	4.88	4.88	4.78	4.98	0.00
Aroclor-1016-2	(2)	4.90	4.90	4.80	5.00	0.00
Aroclor-1016-3	(3)	5.08	5.07	4.97	5.17	-0.01
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)	6.37	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	0.00
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.:** Q2074 **SAS No.:** Q2074 **SDG NO.:** Q2074

GC Column: ZB-MR1 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 05/19/2025 05/19/2025

Client Sample No.: CCAL02 **Date Analyzed:** 05/20/2025

Lab Sample No.: AR1660CCC500 **Data File :** PP072218.D **Time Analyzed:** 17:22

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	5.655	5.552	5.752	459.820	500.000	-8.0
Aroclor-1016-2	5.676	5.574	5.774	496.290	500.000	-0.7
Aroclor-1016-3	5.739	5.636	5.836	491.340	500.000	-1.7
Aroclor-1016-4	5.836	5.734	5.934	502.260	500.000	0.5
Aroclor-1016-5	6.129	6.027	6.227	507.950	500.000	1.6
Aroclor-1260-1	7.248	7.147	7.347	508.540	500.000	1.7
Aroclor-1260-2	7.502	7.401	7.601	495.550	500.000	-0.9
Aroclor-1260-3	7.860	7.760	7.960	511.200	500.000	2.2
Aroclor-1260-4	8.084	7.985	8.185	514.370	500.000	2.9
Aroclor-1260-5	8.403	8.303	8.503	512.480	500.000	2.5
Decachlorobiphenyl	10.212	10.113	10.313	50.530	50.000	1.1
Tetrachloro-m-xylene	4.502	4.396	4.596	50.020	50.000	0.0

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CALIBRATION VERIFICATION SUMMARY

Contract: CAMP02

Lab Code: CHEM **Case No.:** Q2074 **SAS No.:** Q2074 **SDG NO.:** Q2074

GC Column: ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 05/19/2025 05/19/2025

Client Sample No.: CCAL02 **Date Analyzed:** 05/20/2025

Lab Sample No.: AR1660CCC500 **Data File :** PP072218.D **Time Analyzed:** 17:22

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	4.881	4.777	4.977	491.790	500.000	-1.6
Aroclor-1016-2	4.899	4.795	4.995	499.780	500.000	0.0
Aroclor-1016-3	5.076	4.973	5.173	505.010	500.000	1.0
Aroclor-1016-4	5.118	5.015	5.215	506.270	500.000	1.3
Aroclor-1016-5	5.332	5.229	5.429	519.600	500.000	3.9
Aroclor-1260-1	6.365	6.264	6.464	502.580	500.000	0.5
Aroclor-1260-2	6.554	6.453	6.653	473.990	500.000	-5.2
Aroclor-1260-3	6.707	6.606	6.806	508.080	500.000	1.6
Aroclor-1260-4	7.178	7.077	7.277	505.110	500.000	1.0
Aroclor-1260-5	7.419	7.319	7.519	497.310	500.000	-0.5
Decachlorobiphenyl	8.823	8.723	8.923	49.180	50.000	-1.6
Tetrachloro-m-xylene	3.798	3.691	3.891	50.050	50.000	0.1

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CALIBRATION VERIFICATION SUMMARY

Contract: CAMP02

Lab Code: CHEM **Case No.:** Q2074 **SAS No.:** Q2074 **SDG NO.:** Q2074

Continuing Calib Date: 05/20/2025 **Initial Calibration Date(s):** 05/19/2025 05/19/2025

Continuing Calib Time: 22:48 **Initial Calibration Time(s):** 09:42 18:25

GC Column: ZB-MR1 **ID:** 0.32 **(mm)**

COMPOUND		CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Aroclor-1016-1	(1)	5.66	5.65	5.55	5.75	-0.01
Aroclor-1016-2	(2)	5.68	5.67	5.57	5.77	-0.01
Aroclor-1016-3	(3)	5.74	5.74	5.64	5.84	0.00
Aroclor-1016-4	(4)	5.84	5.83	5.73	5.93	-0.01
Aroclor-1016-5	(5)	6.13	6.13	6.03	6.23	0.00
Aroclor-1260-1	(1)	7.25	7.25	7.15	7.35	0.00
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.:** Q2074 **SAS No.:** Q2074 **SDG NO.:** Q2074

Continuing Calib Date: 05/20/2025 **Initial Calibration Date(s):** 05/19/2025 05/19/2025

Continuing Calib Time: 22:48 **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.:** Q2074 **SAS No.:** Q2074 **SDG NO.:** Q2074

GC Column: ZB-MR1 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 05/19/2025 05/19/2025

Client Sample No.: CCAL03 **Date Analyzed:** 05/20/2025

Lab Sample No.: AR1660CCC500 **Data File :** PP072233.D **Time Analyzed:** 22:48

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	5.655	5.552	5.752	456.700	500.000	-8.7
Aroclor-1016-2	5.676	5.574	5.774	491.930	500.000	-1.6
Aroclor-1016-3	5.739	5.636	5.836	480.640	500.000	-3.9
Aroclor-1016-4	5.836	5.734	5.934	496.140	500.000	-0.8
Aroclor-1016-5	6.129	6.027	6.227	500.200	500.000	0.0
Aroclor-1260-1	7.247	7.147	7.347	500.850	500.000	0.2
Aroclor-1260-2	7.501	7.401	7.601	487.730	500.000	-2.5
Aroclor-1260-3	7.859	7.760	7.960	505.400	500.000	1.1
Aroclor-1260-4	8.084	7.985	8.185	510.290	500.000	2.1
Aroclor-1260-5	8.403	8.303	8.503	496.080	500.000	-0.8
Decachlorobiphenyl	10.209	10.113	10.313	49.820	50.000	-0.4
Tetrachloro-m-xylene	4.501	4.396	4.596	49.740	50.000	-0.5

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CALIBRATION VERIFICATION SUMMARY

Contract: CAMP02

Lab Code: CHEM **Case No.:** Q2074 **SAS No.:** Q2074 **SDG NO.:** Q2074

GC Column: ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 05/19/2025 05/19/2025

Client Sample No.: CCAL03 **Date Analyzed:** 05/20/2025

Lab Sample No.: AR1660CCC500 **Data File :** PP072233.D **Time Analyzed:** 22:48

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	4.880	4.777	4.977	494.880	500.000	-1.0
Aroclor-1016-2	4.898	4.795	4.995	502.110	500.000	0.4
Aroclor-1016-3	5.075	4.973	5.173	512.910	500.000	2.6
Aroclor-1016-4	5.116	5.015	5.215	513.720	500.000	2.7
Aroclor-1016-5	5.331	5.229	5.429	539.830	500.000	8.0
Aroclor-1260-1	6.364	6.264	6.464	518.550	500.000	3.7
Aroclor-1260-2	6.553	6.453	6.653	487.150	500.000	-2.6
Aroclor-1260-3	6.705	6.606	6.806	519.560	500.000	3.9
Aroclor-1260-4	7.176	7.077	7.277	514.650	500.000	2.9
Aroclor-1260-5	7.417	7.319	7.519	507.790	500.000	1.6
Decachlorobiphenyl	8.820	8.723	8.923	51.090	50.000	2.2
Tetrachloro-m-xylene	3.796	3.691	3.891	49.960	50.000	-0.1

Alliance TECHNICAL GROUP
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Analytical Sequence

Client: CDM Smith **SDG No.:** Q2074

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

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	09:26	PP072163.D	10.21	4.50
AR1660ICC1000	AR1660ICC1000	05/19/2025	09:42	PP072164.D	10.21	4.50
AR1660ICC750	AR1660ICC750	05/19/2025	09:59	PP072165.D	10.21	4.50
AR1660ICC500	AR1660ICC500	05/19/2025	10:15	PP072166.D	10.21	4.50
AR1660ICC250	AR1660ICC250	05/19/2025	10:32	PP072167.D	10.21	4.50
AR1660ICC050	AR1660ICC050	05/19/2025	10:48	PP072168.D	10.21	4.50
AR1221ICC500	AR1221ICC500	05/19/2025	11:05	PP072169.D	10.21	4.50
AR1232ICC1000	AR1232ICC1000	05/19/2025	11:21	PP072170.D	10.21	4.50
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	05/20/2025	09:51	PP072203.D	10.21	4.50
I.BLK	I.BLK	05/20/2025	10:56	PP072207.D	10.21	4.50
PB168074BL	PB168074BL	05/20/2025	13:49	PP072208.D	10.21	4.50
PB168074BS	PB168074BS	05/20/2025	14:06	PP072209.D	10.21	4.50
TP-12	Q2074-01	05/20/2025	14:22	PP072210.D	10.21	4.50
TP-7	Q2074-02	05/20/2025	14:38	PP072211.D	10.21	4.50
TP-15	Q2074-03	05/20/2025	14:55	PP072212.D	10.21	4.50
TP-20	Q2074-04	05/20/2025	15:11	PP072213.D	10.21	4.50
TP-38	Q2074-05	05/20/2025	15:27	PP072214.D	10.21	4.50

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Analytical Sequence

TP-19	Q2074-06	05/20/2025	15:44	PP072215.D	10.21	4.50
TP-40	Q2074-07	05/20/2025	16:00	PP072216.D	10.21	4.50
TP-18	Q2074-08	05/20/2025	16:16	PP072217.D	10.22	4.51
AR1660CCC500	AR1660CCC500	05/20/2025	17:22	PP072218.D	10.21	4.50
I.BLK	I.BLK	05/20/2025	18:44	PP072222.D	10.22	4.51
PL-HRH-COMP-01MS	Q2080-01MS	05/20/2025	19:16	PP072224.D	10.21	4.50
PL-HRH-COMP-01MSD	Q2080-01MSD	05/20/2025	19:32	PP072225.D	10.21	4.50
AR1660CCC500	AR1660CCC500	05/20/2025	22:48	PP072233.D	10.21	4.50
I.BLK	I.BLK	05/21/2025	00:26	PP072237.D	10.21	4.50

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Fax : 908 789 8922

Analytical Sequence

Client: CDM Smith **SDG No.:** Q2074

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

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	09:26	PP072163.D	8.82	3.79
AR1660ICC1000	AR1660ICC1000	05/19/2025	09:42	PP072164.D	8.82	3.79
AR1660ICC750	AR1660ICC750	05/19/2025	09:59	PP072165.D	8.82	3.79
AR1660ICC500	AR1660ICC500	05/19/2025	10:15	PP072166.D	8.82	3.79
AR1660ICC250	AR1660ICC250	05/19/2025	10:32	PP072167.D	8.82	3.79
AR1660ICC050	AR1660ICC050	05/19/2025	10:48	PP072168.D	8.82	3.79
AR1221ICC500	AR1221ICC500	05/19/2025	11:05	PP072169.D	8.82	3.79
AR1232ICC1000	AR1232ICC1000	05/19/2025	11:21	PP072170.D	8.82	3.80
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	05/20/2025	09:51	PP072203.D	8.82	3.80
I.BLK	I.BLK	05/20/2025	10:56	PP072207.D	8.82	3.80
PB168074BL	PB168074BL	05/20/2025	13:49	PP072208.D	8.82	3.80
PB168074BS	PB168074BS	05/20/2025	14:06	PP072209.D	8.82	3.80
TP-12	Q2074-01	05/20/2025	14:22	PP072210.D	8.82	3.80
TP-7	Q2074-02	05/20/2025	14:38	PP072211.D	8.82	3.80
TP-15	Q2074-03	05/20/2025	14:55	PP072212.D	8.82	3.80
TP-20	Q2074-04	05/20/2025	15:11	PP072213.D	8.82	3.80
TP-38	Q2074-05	05/20/2025	15:27	PP072214.D	8.82	3.80

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Analytical Sequence

TP-19	Q2074-06	05/20/2025	15:44	PP072215.D	8.82	3.80
TP-40	Q2074-07	05/20/2025	16:00	PP072216.D	8.82	3.80
TP-18	Q2074-08	05/20/2025	16:16	PP072217.D	8.82	3.80
AR1660CCC500	AR1660CCC500	05/20/2025	17:22	PP072218.D	8.82	3.80
I.BLK	I.BLK	05/20/2025	18:44	PP072222.D	8.82	3.80
PL-HRH-COMP-01MS	Q2080-01MS	05/20/2025	19:16	PP072224.D	8.82	3.80
PL-HRH-COMP-01MSD	Q2080-01MSD	05/20/2025	19:32	PP072225.D	8.82	3.80
AR1660CCC500	AR1660CCC500	05/20/2025	22:48	PP072233.D	8.82	3.80
I.BLK	I.BLK	05/21/2025	00:26	PP072237.D	8.82	3.80

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IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

SAMPLE NO.
PB168074BS

Contract: CAMP02

Lab Code: CHEM Case No.: Q2074 SAS No.: Q2074 SDG NO.: Q2074

Lab Sample ID: PB168074BS Date(s) Analyzed: 05/20/2025 05/20/2025

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 PP072209.D

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%RPD
Aroclor-1016	1	5.654	5.604	5.704	130		
	2	5.675	5.625	5.725	145		
	3	5.738	5.688	5.788	138		
COLUMN 1	4	5.835	5.785	5.885	142		
	5	6.128	6.078	6.178	137	138	
	1	4.88	4.83	4.93	140		
	2	4.898	4.848	4.948	141		
	3	5.075	5.025	5.125	144		
	4	5.117	5.067	5.167	143		
COLUMN 2	5	5.331	5.281	5.381	139	141	2.15
Aroclor-1260	1	7.247	7.197	7.297	150		
	2	7.5	7.45	7.55	149		
	3	7.859	7.809	7.909	129		
COLUMN 1	4	8.083	8.033	8.133	140		
	5	8.402	8.352	8.452	132	140	
	1	6.364	6.314	6.414	146		
	2	6.553	6.503	6.603	137		
	3	6.705	6.655	6.755	153		
	4	7.176	7.126	7.226	132		
COLUMN 2	5	7.417	7.367	7.467	128	139	0.72

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IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

SAMPLE NO.
PL-HRH-COMP-01MS

Contract: CAMP02
Lab Code: CHEM Case No.: Q2074 SAS No.: Q2074 SDG NO.: Q2074
Lab Sample ID: Q2080-01MS Date(s) Analyzed: 05/20/2025 05/20/2025
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 PP072224.D

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%RPD
Aroclor-1016	1	5.655	5.605	5.705	158		
	2	5.677	5.627	5.727	173		
	3	5.739	5.689	5.789	165		
COLUMN 1	4	5.836	5.786	5.886	174		
	5	6.128	6.078	6.178	169	168	
	1	4.88	4.83	4.93	168		
	2	4.898	4.848	4.948	167		
	3	5.075	5.025	5.125	172		
	4	5.117	5.067	5.167	169		
COLUMN 2	5	5.331	5.281	5.381	167	168	0
Aroclor-1260	1	7.247	7.197	7.297	169		
	2	7.501	7.451	7.551	162		
	3	7.859	7.809	7.909	140		
COLUMN 1	4	8.083	8.033	8.133	155		
	5	8.404	8.354	8.454	142	153	
	1	6.365	6.315	6.415	173		
	2	6.553	6.503	6.603	158		
	3	6.705	6.655	6.755	172		
	4	7.176	7.126	7.226	151		
COLUMN 2	5	7.418	7.368	7.468	146	160	4.47

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Fax : 908 789 8922

IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

SAMPLE NO.

PL-HRH-COMP-01MSD

Contract: CAMP02

Lab Code: CHEM Case No.: Q2074 SAS No.: Q2074 SDG NO.: Q2074

Lab Sample ID: Q2080-01MSD Date(s) Analyzed: 05/20/2025 05/20/2025

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 PP072225.D

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%RPD
Aroclor-1016	1	5.655	5.605	5.705	172		
	2	5.676	5.626	5.726	180		
	3	5.739	5.689	5.789	176		
COLUMN 1	4	5.836	5.786	5.886	181		
	5	6.129	6.079	6.179	179	177	
	1	4.88	4.83	4.93	178		
	2	4.899	4.849	4.949	178		
	3	5.076	5.026	5.126	182		
	4	5.117	5.067	5.167	179		
COLUMN 2	5	5.332	5.282	5.382	177	179	1.12
Aroclor-1260	1	7.247	7.197	7.297	179		
	2	7.501	7.451	7.551	171		
	3	7.86	7.81	7.91	149		
COLUMN 1	4	8.082	8.032	8.132	162		
	5	8.403	8.353	8.453	151	162	
	1	6.365	6.315	6.415	182		
	2	6.553	6.503	6.603	167		
	3	6.706	6.656	6.756	184		
	4	7.177	7.127	7.227	157		
COLUMN 2	5	7.419	7.369	7.469	153	169	4.23

SAMPLE RAW DATA

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP052025\
Data File : PP072210.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 May 2025 14:22
Operator : YP\AJ
Sample : Q2074-01
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
ECD_P
ClientSampleId :
TP-12

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 05/21/2025
Supervised By :mohammad ahmed 05/22/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 21 03:15:40 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...	4.500	3.797	34406384	30773328	17.111m	19.253
2)	SA Decachlor...	10.211	8.821	26871914	18441644	16.495	17.421
	Target Compounds						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

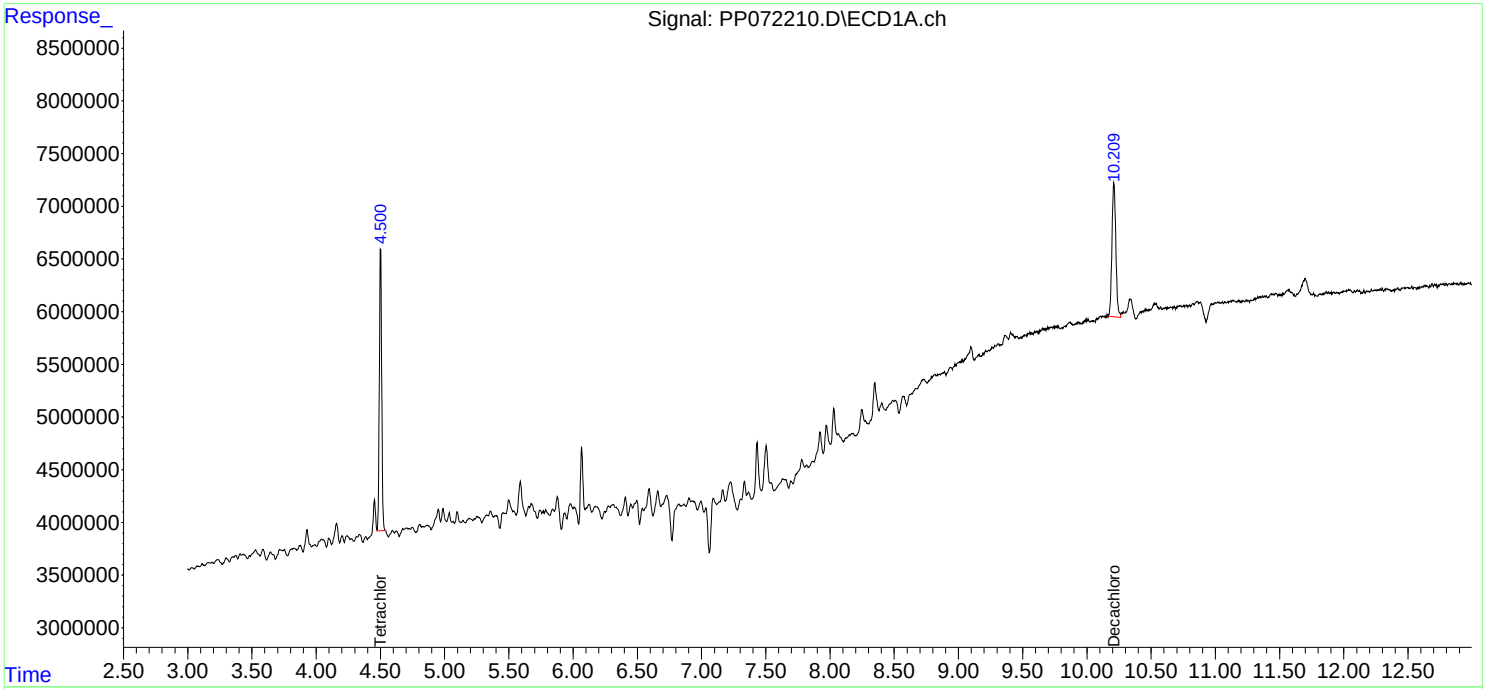
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP052025\
Data File : PP072210.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 May 2025 14:22
Operator : YP\AJ
Sample : Q2074-01
Misc :
ALS Vial : 9 Sample Multiplier: 1

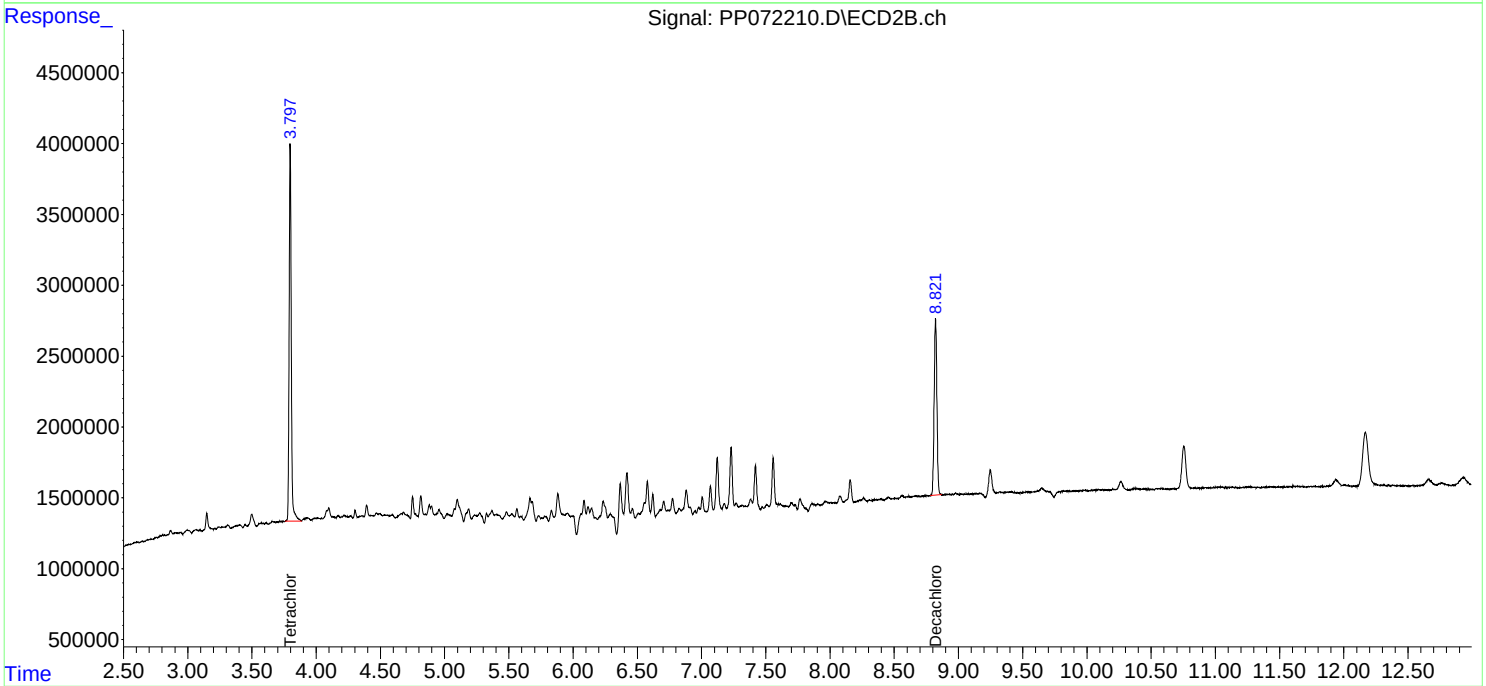
Instrument :
ECD_P
ClientSampleId :
TP-12

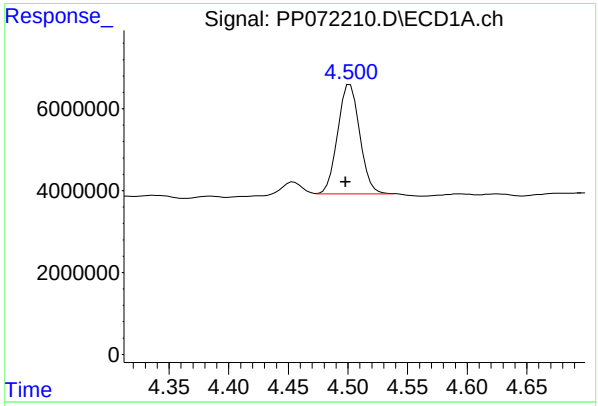
Manual Integrations APPROVED
Reviewed By :Yogesh Patel 05/21/2025
Supervised By :mohammad ahmed 05/22/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 21 03:15:40 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







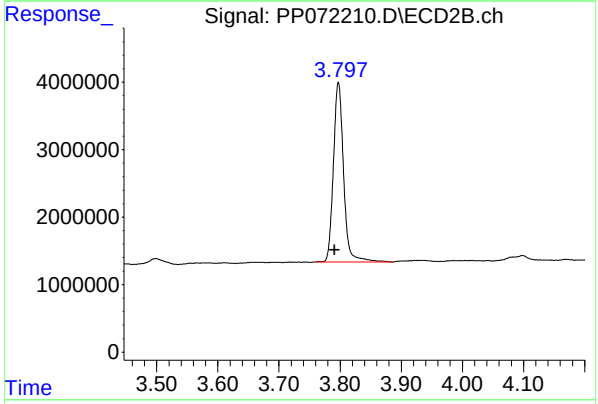
#1 Tetrachloro-m-xylene

R.T.: 4.500 min
Delta R.T.: 0.002 min
Response: 34406384
Conc: 17.11 ng/ml

Instrument :
ECD_P
ClientSampleId :
TP-12

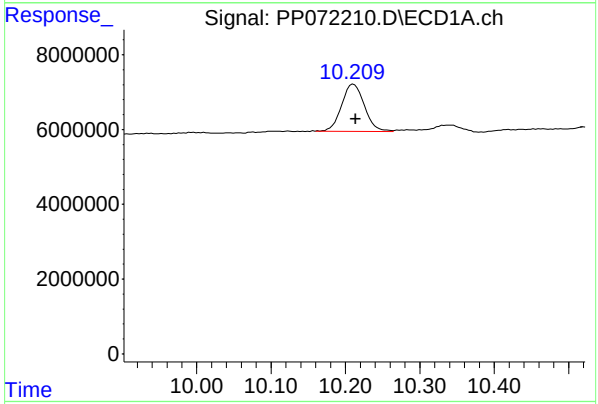
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 05/21/2025
Supervised By :mohammad ahmed 05/22/2025



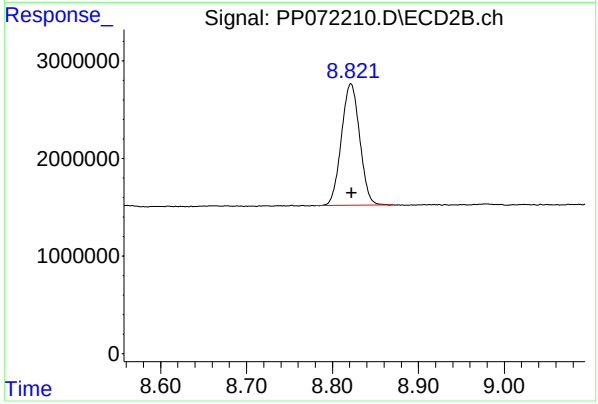
#1 Tetrachloro-m-xylene

R.T.: 3.797 min
Delta R.T.: 0.006 min
Response: 30773328
Conc: 19.25 ng/ml



#2 Decachlorobiphenyl

R.T.: 10.211 min
Delta R.T.: -0.003 min
Response: 26871914
Conc: 16.49 ng/ml



#2 Decachlorobiphenyl

R.T.: 8.821 min
Delta R.T.: 0.000 min
Response: 18441644
Conc: 17.42 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP052025\
Data File : PP072211.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 May 2025 14:38
Operator : YP\AJ
Sample : Q2074-02
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
ECD_P
ClientSampleId :
TP-7

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 21 03:15:57 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...	4.504	3.797	42641147	34568823	21.206	21.628
2)	SA Decachlor...	10.214	8.821	33280172	22261521	20.428	21.029
	Target Compounds						

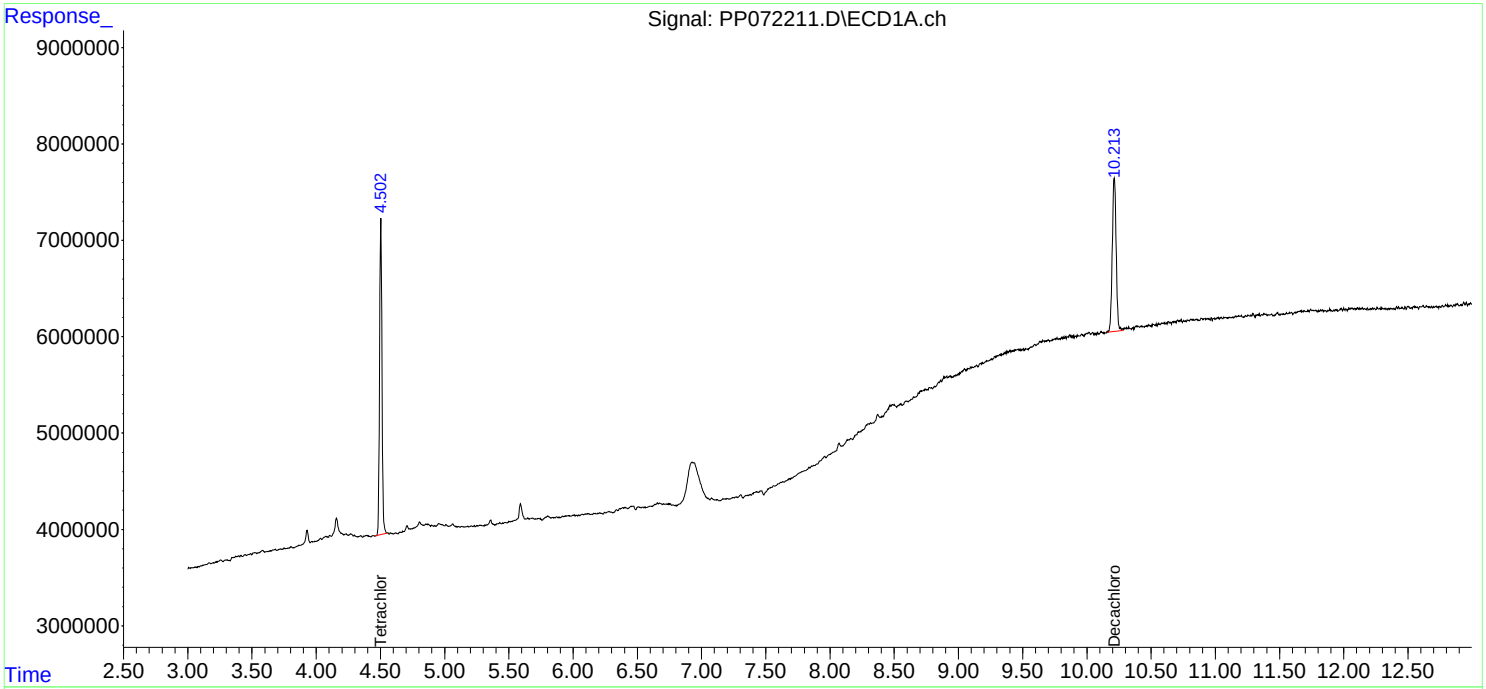
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

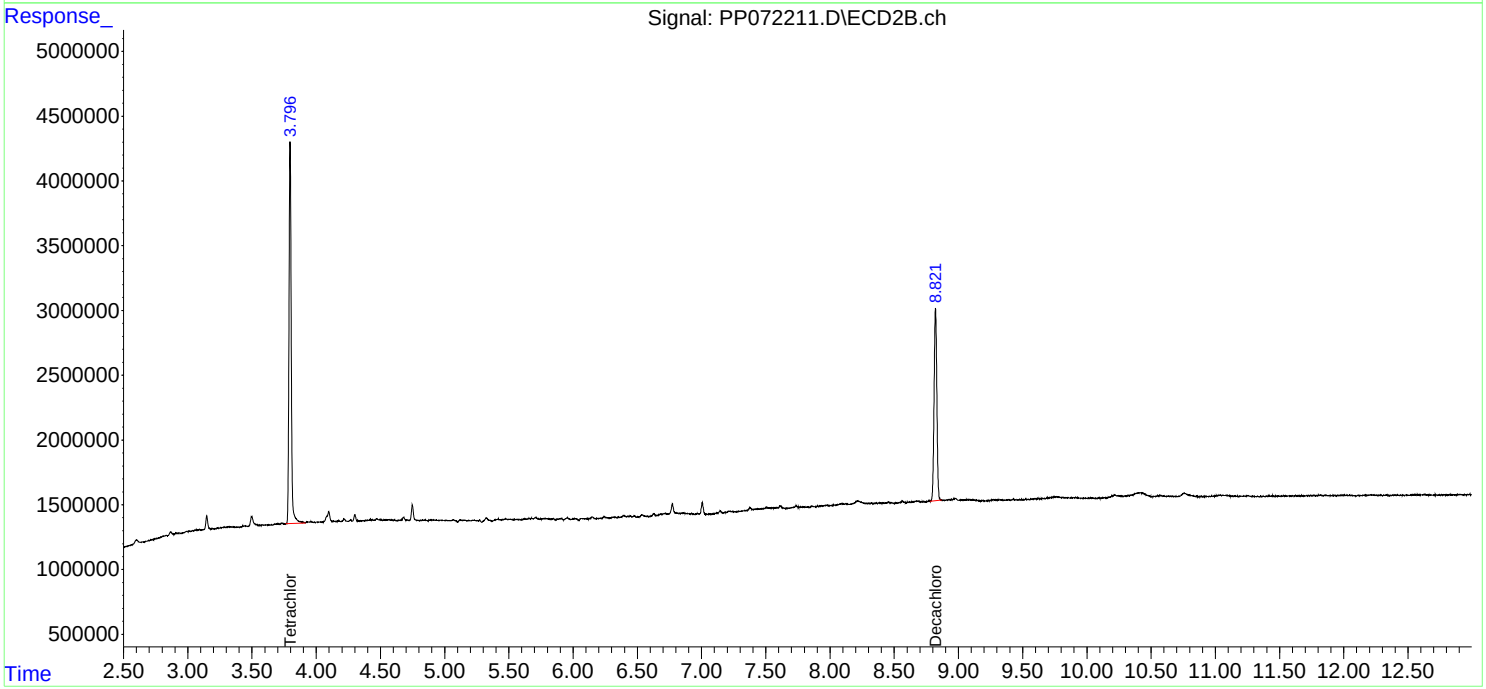
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP052025\
Data File : PP072211.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 May 2025 14:38
Operator : YP\AJ
Sample : Q2074-02
Misc :
ALS Vial : 10 Sample Multiplier: 1

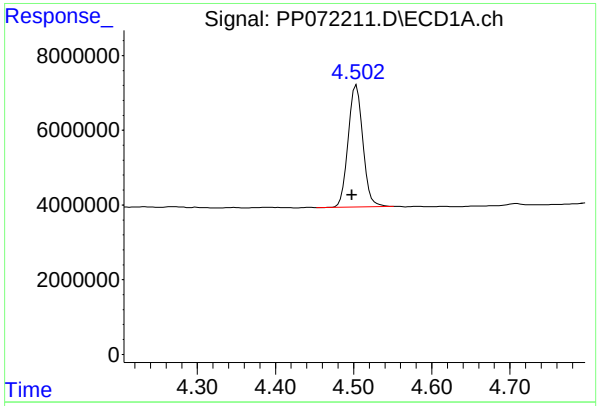
Instrument :
ECD_P
ClientSampleId :
TP-7

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 21 03:15:57 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



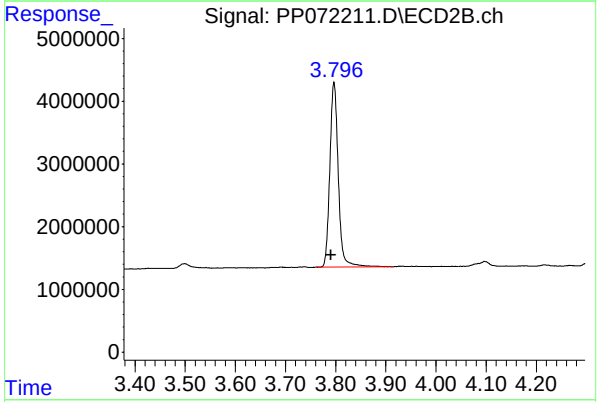




#1 Tetrachloro-m-xylene

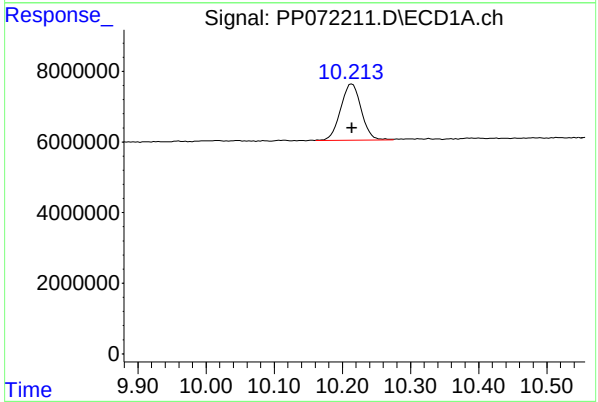
R.T.: 4.504 min
Delta R.T.: 0.006 min
Response: 42641147
Conc: 21.21 ng/ml

Instrument :
ECD_P
ClientSampleId :
TP-7



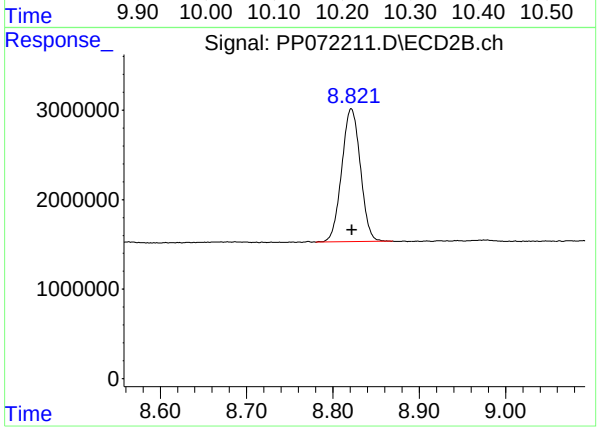
#1 Tetrachloro-m-xylene

R.T.: 3.797 min
Delta R.T.: 0.006 min
Response: 34568823
Conc: 21.63 ng/ml



#2 Decachlorobiphenyl

R.T.: 10.214 min
Delta R.T.: 0.000 min
Response: 33280172
Conc: 20.43 ng/ml



#2 Decachlorobiphenyl

R.T.: 8.821 min
Delta R.T.: 0.000 min
Response: 22261521
Conc: 21.03 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP052025\
Data File : PP072212.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 May 2025 14:55
Operator : YP\AJ
Sample : Q2074-03
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
ECD_P
ClientSampleId :
TP-15

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 21 03:16:13 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...	4.500	3.798	36791094	29988607	18.297	18.762
2)	SA Decachlor...	10.209	8.821	23581726	16864080	14.475	15.931
	Target Compounds						

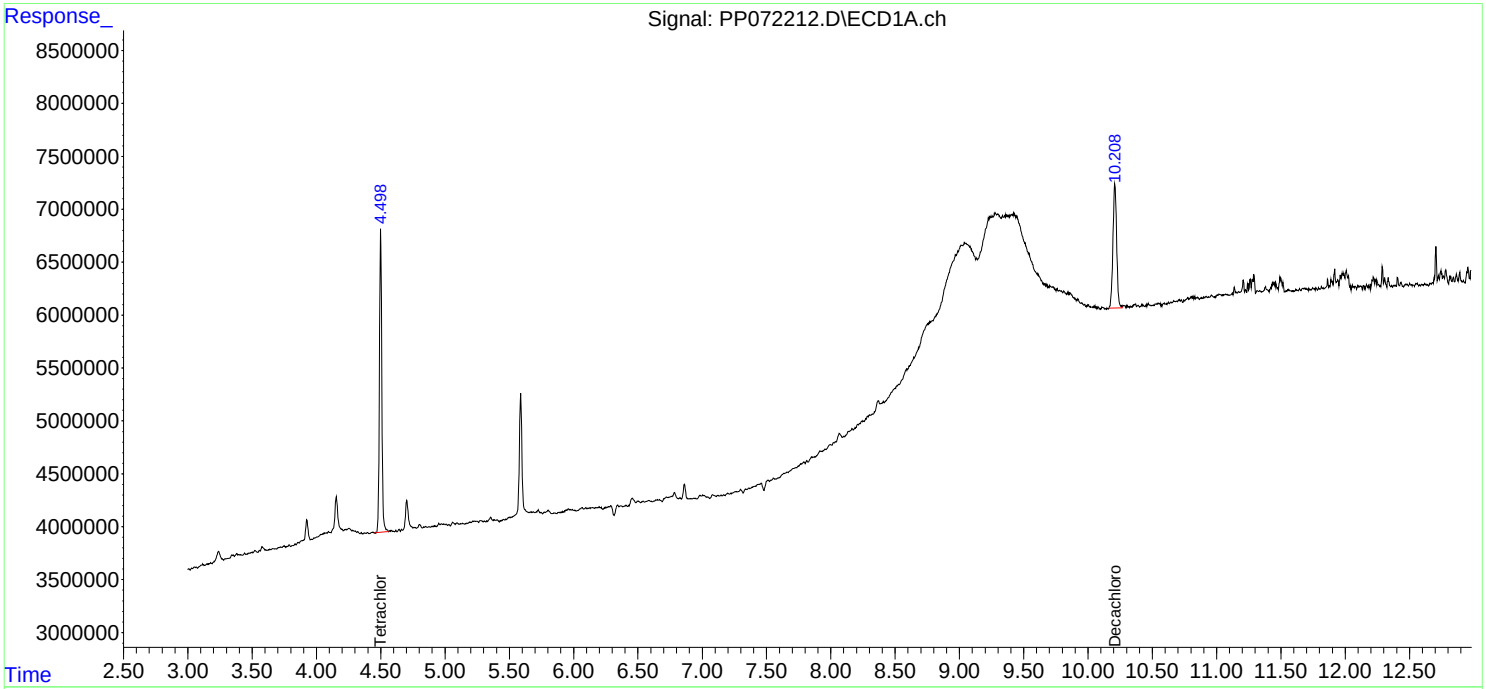
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

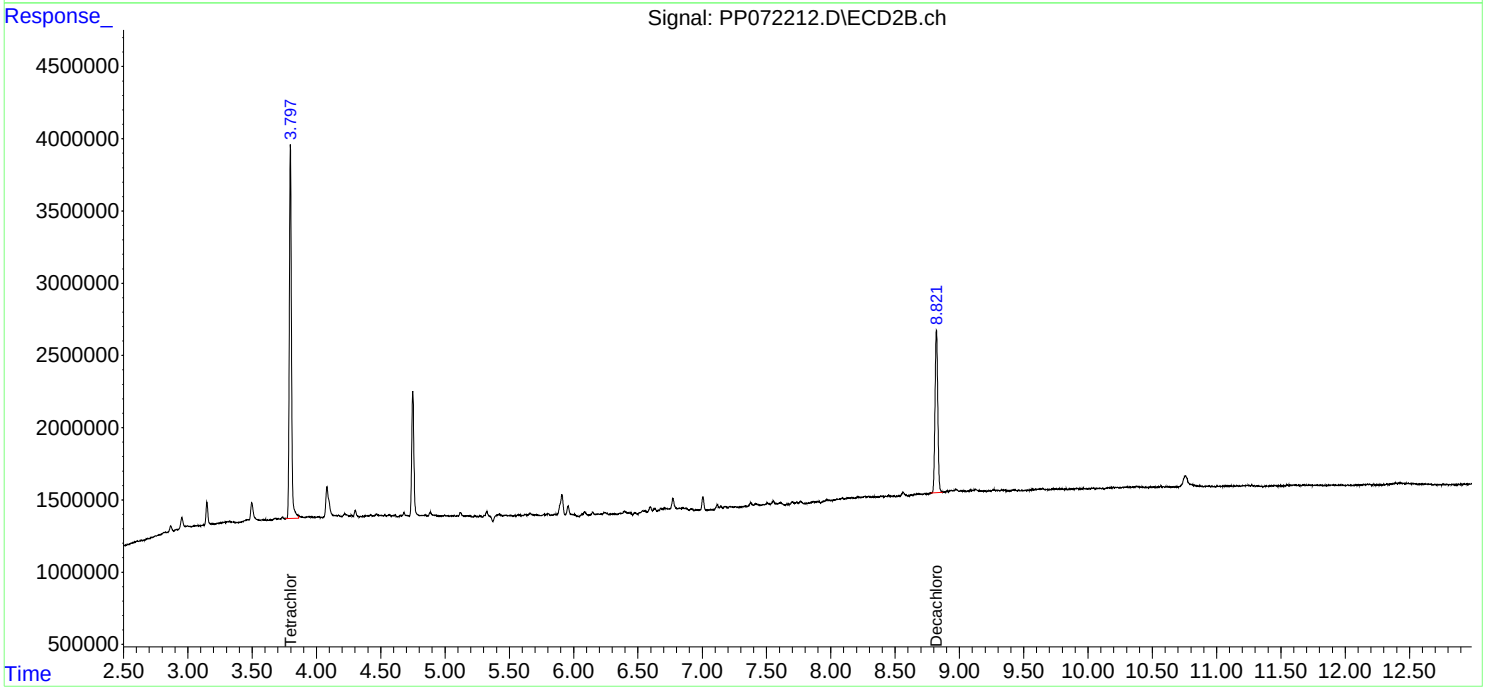
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP052025\
Data File : PP072212.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 May 2025 14:55
Operator : YP\AJ
Sample : Q2074-03
Misc :
ALS Vial : 11 Sample Multiplier: 1

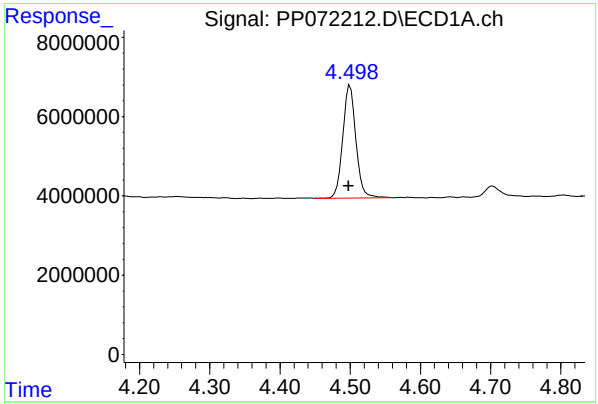
Instrument :
ECD_P
ClientSampleId :
TP-15

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 21 03:16:13 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



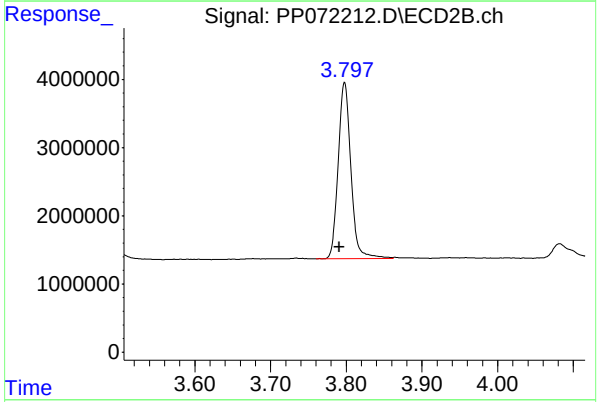




#1 Tetrachloro-m-xylene

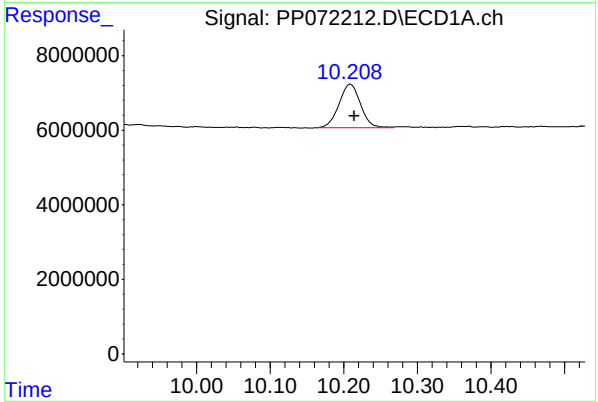
R.T.: 4.500 min
Delta R.T.: 0.002 min
Response: 36791094
Conc: 18.30 ng/ml

Instrument :
ECD_P
ClientSampleId :
TP-15



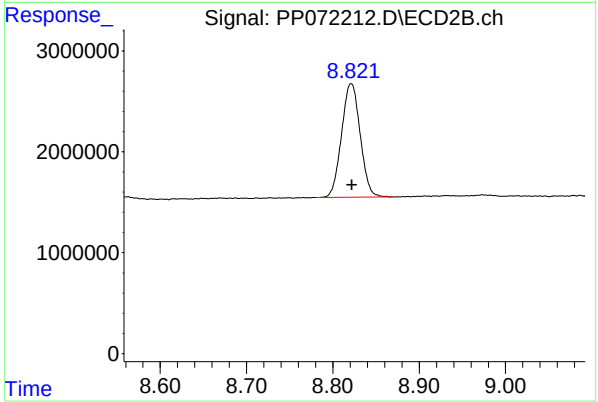
#1 Tetrachloro-m-xylene

R.T.: 3.798 min
Delta R.T.: 0.007 min
Response: 29988607
Conc: 18.76 ng/ml



#2 Decachlorobiphenyl

R.T.: 10.209 min
Delta R.T.: -0.005 min
Response: 23581726
Conc: 14.48 ng/ml



#2 Decachlorobiphenyl

R.T.: 8.821 min
Delta R.T.: 0.000 min
Response: 16864080
Conc: 15.93 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP052025\
Data File : PP072213.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 May 2025 15:11
Operator : YP\AJ
Sample : Q2074-04
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
ECD_P
ClientSampleId :
TP-20

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 05/21/2025
Supervised By :mohammad ahmed 05/22/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 21 03:16:29 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...	4.503	3.797	36410297	29423800	18.107m	18.409
2)	SA Decachlor...	10.214	8.821	28053947	19190228	17.220	18.128
	Target Compounds						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

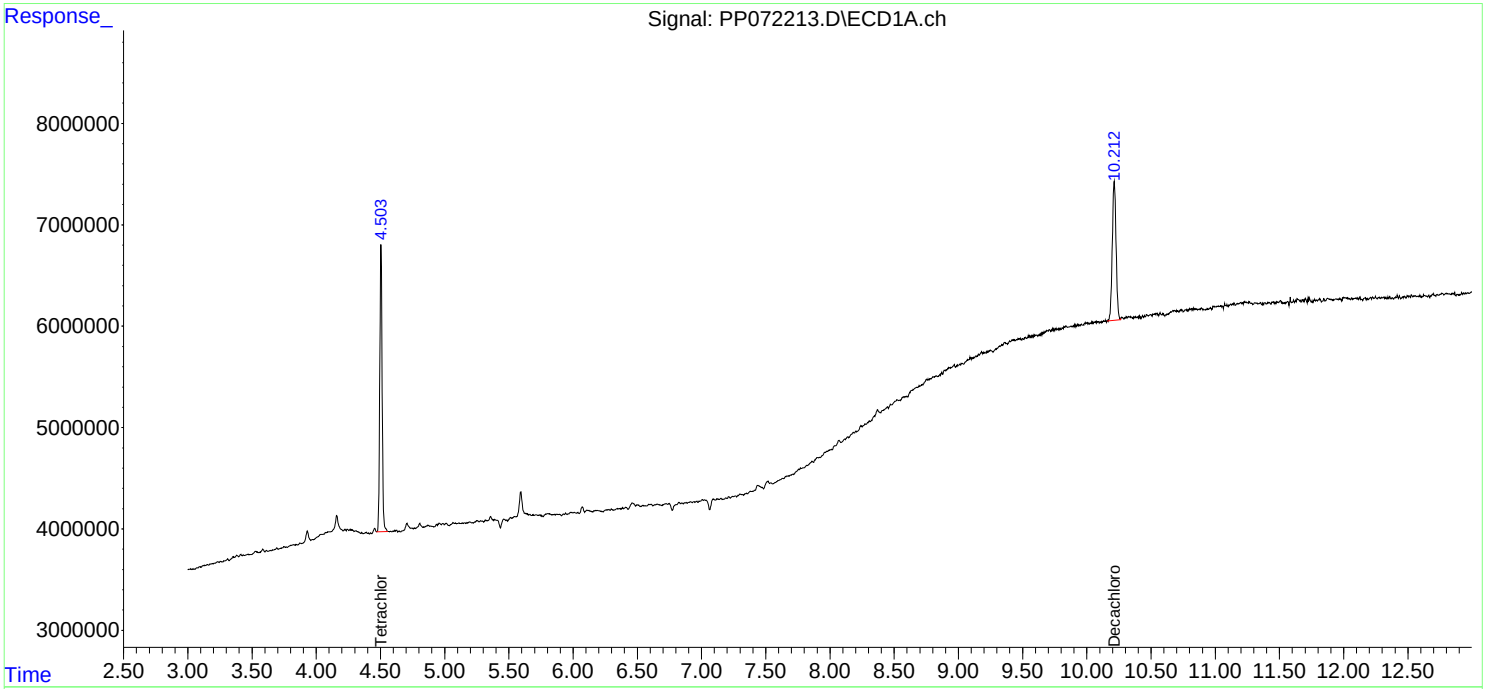
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP052025\
Data File : PP072213.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 May 2025 15:11
Operator : YP\AJ
Sample : Q2074-04
Misc :
ALS Vial : 12 Sample Multiplier: 1

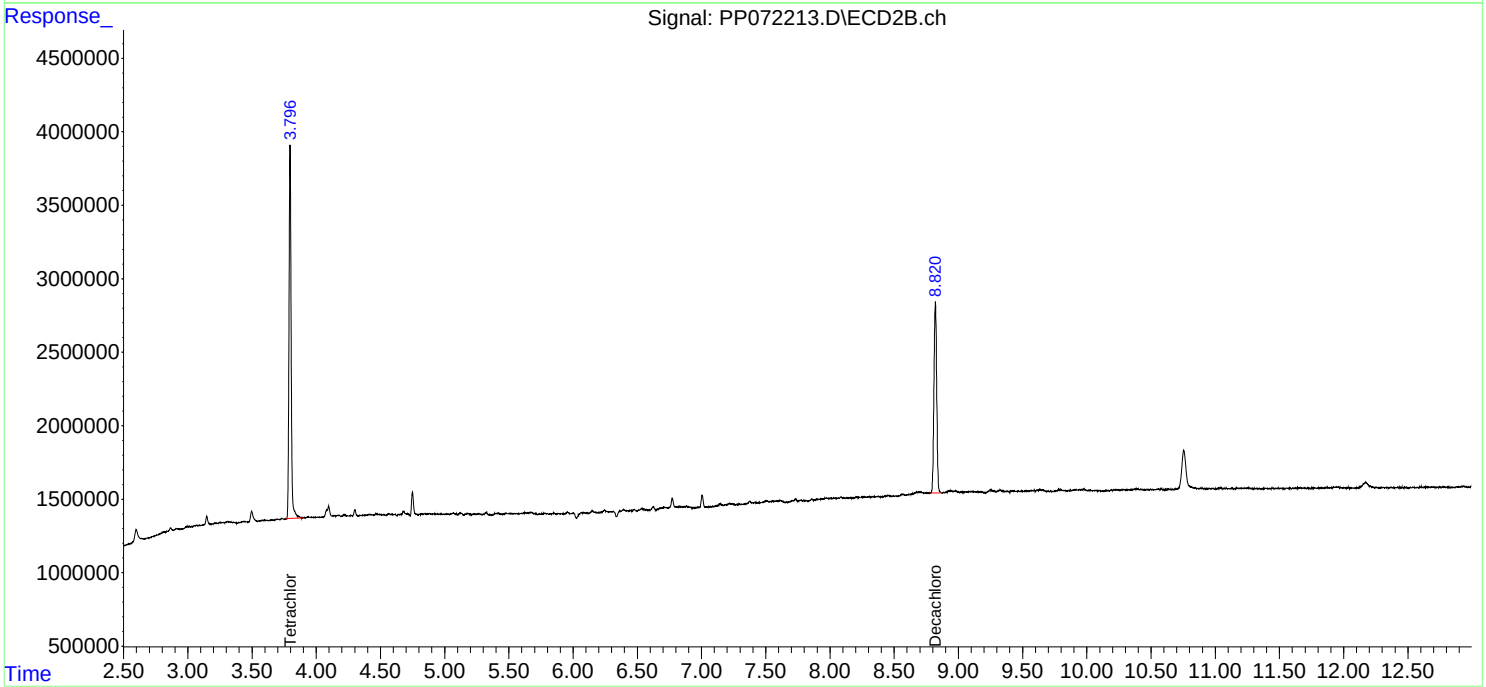
Instrument :
ECD_P
ClientSampleId :
TP-20

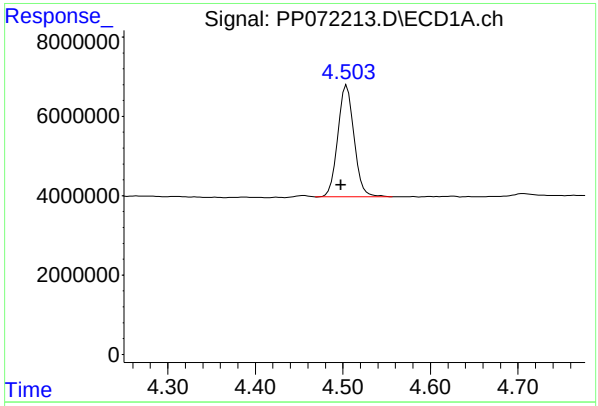
Manual Integrations APPROVED
Reviewed By :Yogesh Patel 05/21/2025
Supervised By :mohammad ahmed 05/22/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 21 03:16:29 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







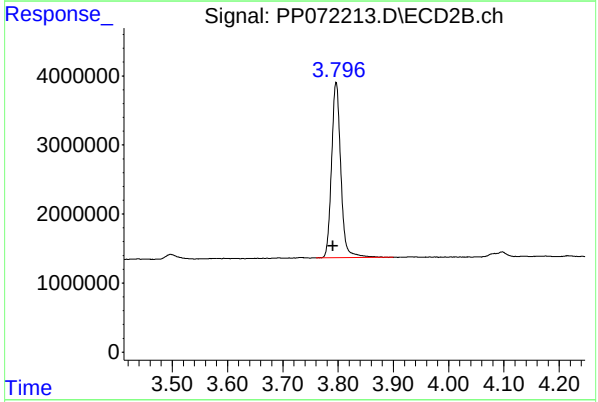
#1 Tetrachloro-m-xylene

R.T.: 4.503 min
Delta R.T.: 0.005 min
Response: 36410297
Conc: 18.11 ng/ml

Instrument :
ECD_P
ClientSampleId :
TP-20

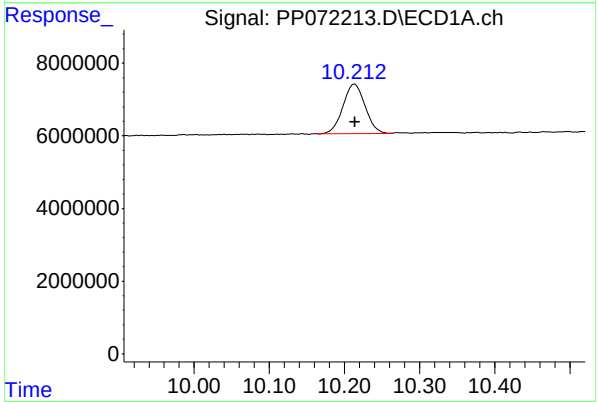
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 05/21/2025
Supervised By :mohammad ahmed 05/22/2025



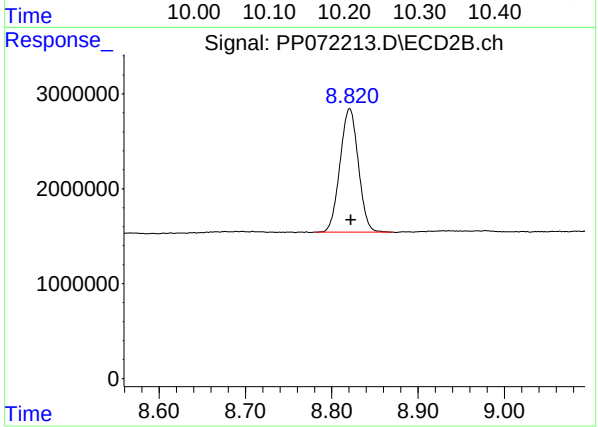
#1 Tetrachloro-m-xylene

R.T.: 3.797 min
Delta R.T.: 0.005 min
Response: 29423800
Conc: 18.41 ng/ml



#2 Decachlorobiphenyl

R.T.: 10.214 min
Delta R.T.: 0.000 min
Response: 28053947
Conc: 17.22 ng/ml



#2 Decachlorobiphenyl

R.T.: 8.821 min
Delta R.T.: -0.001 min
Response: 19190228
Conc: 18.13 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP052025\
Data File : PP072214.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 May 2025 15:27
Operator : YP\AJ
Sample : Q2074-05
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
ECD_P
ClientSampleId :
TP-38

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 21 03:16:43 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	3.798	34355044	29679006	17.085	18.568
2)	SA Decachlor...	10.212	8.822	23345886	17003595	14.330	16.062
	Target Compounds						

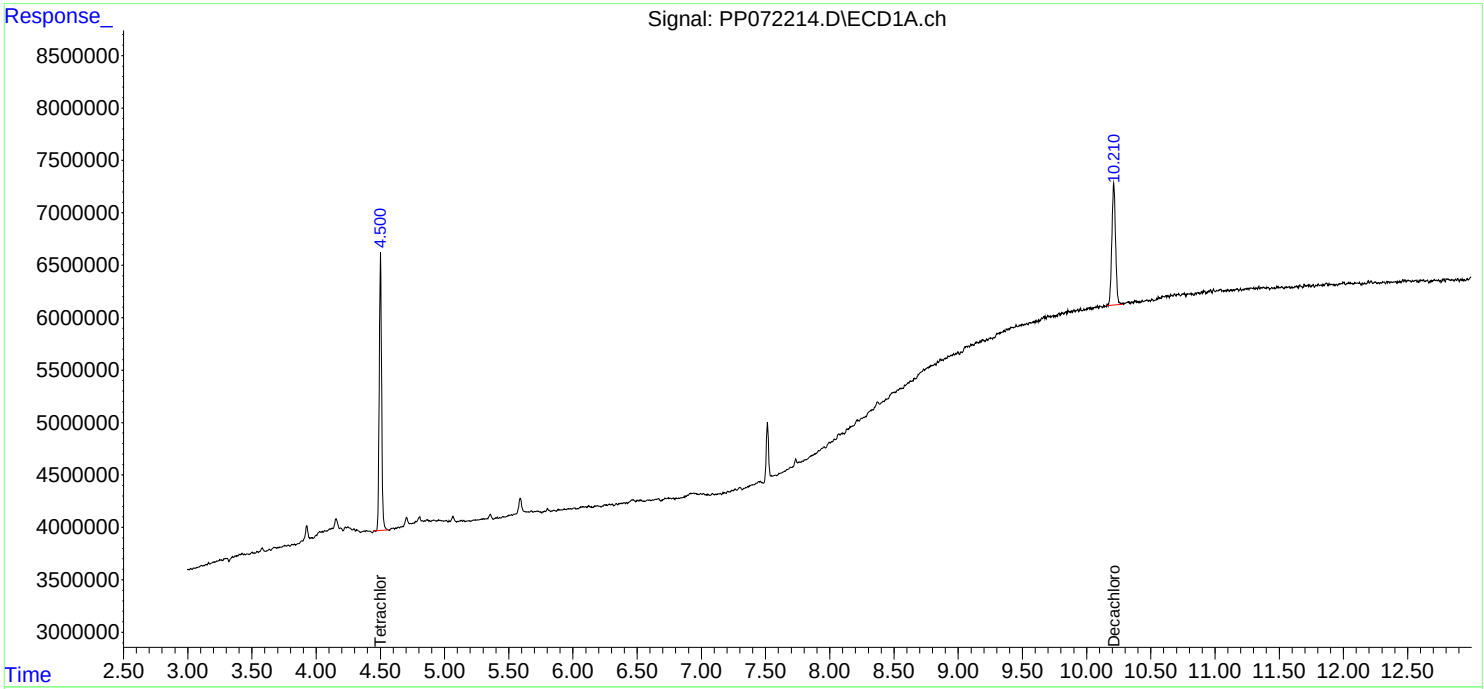
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

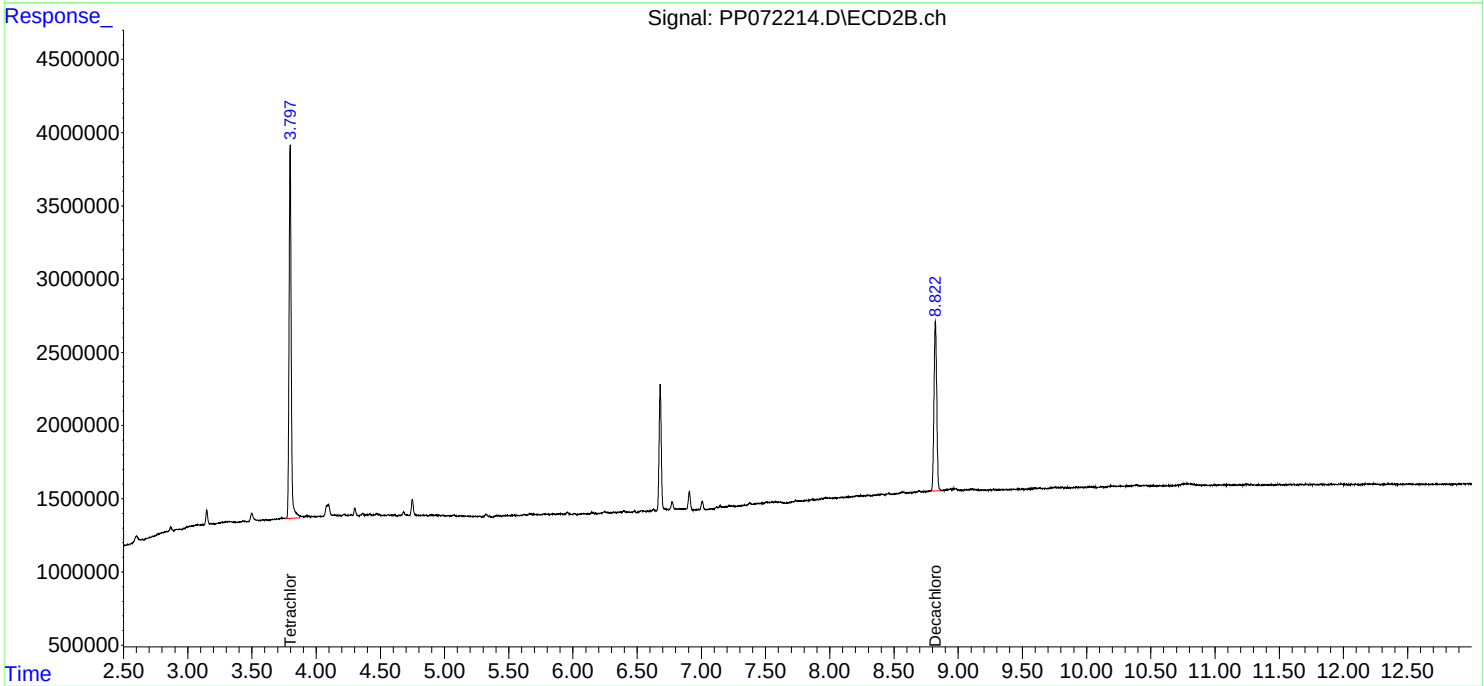
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP052025\
Data File : PP072214.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 May 2025 15:27
Operator : YP\AJ
Sample : Q2074-05
Misc :
ALS Vial : 13 Sample Multiplier: 1

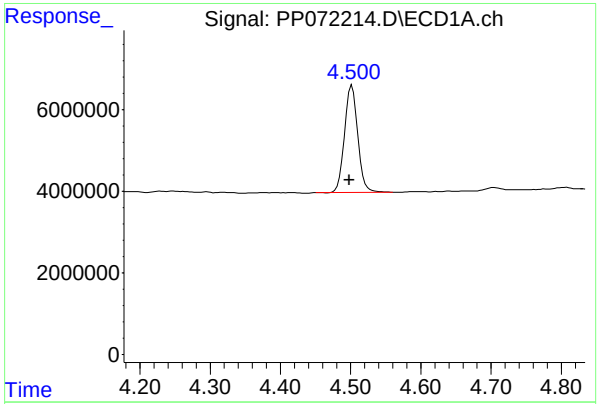
Instrument :
ECD_P
ClientSampleId :
TP-38

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 21 03:16:43 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



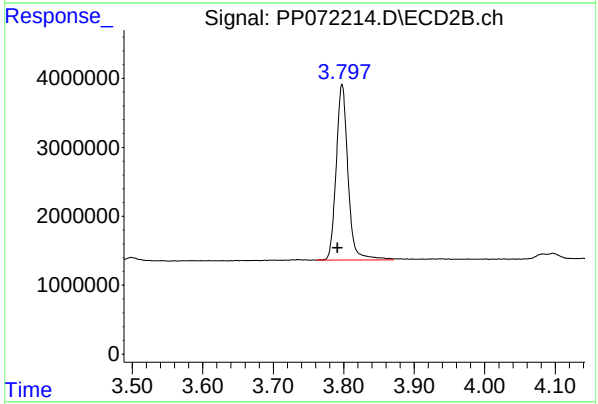




#1 Tetrachloro-m-xylene

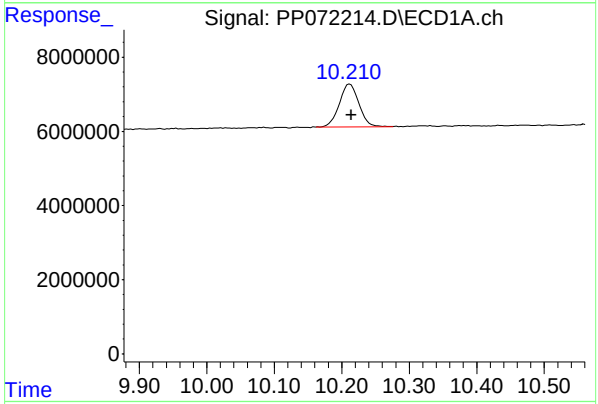
R.T.: 4.502 min
Delta R.T.: 0.004 min
Response: 34355044
Conc: 17.09 ng/ml

Instrument :
ECD_P
ClientSampleId :
TP-38



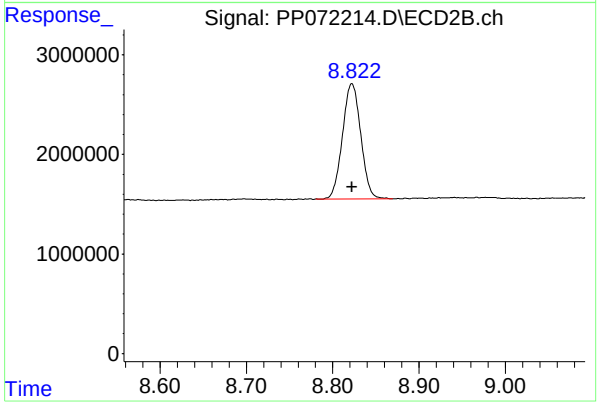
#1 Tetrachloro-m-xylene

R.T.: 3.798 min
Delta R.T.: 0.007 min
Response: 29679006
Conc: 18.57 ng/ml



#2 Decachlorobiphenyl

R.T.: 10.212 min
Delta R.T.: -0.002 min
Response: 23345886
Conc: 14.33 ng/ml



#2 Decachlorobiphenyl

R.T.: 8.822 min
Delta R.T.: 0.000 min
Response: 17003595
Conc: 16.06 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP052025\
Data File : PP072215.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 May 2025 15:44
Operator : YP\AJ
Sample : Q2074-06
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
ECD_P
ClientSampleId :
TP-19

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 21 03:16:58 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	36328466	30006623	18.067	18.773
2)	SA Decachlor...	10.212	8.822	26175128	18242182	16.067	17.232
	Target Compounds						

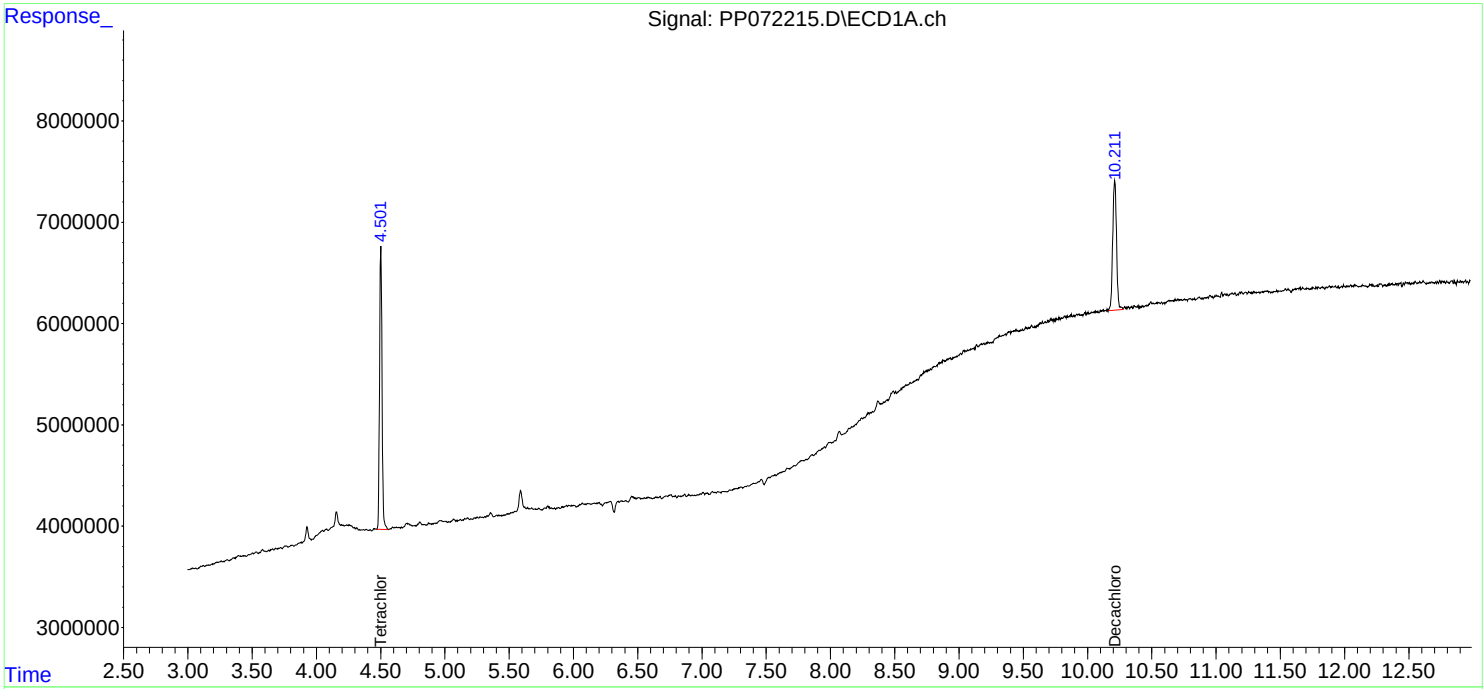
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

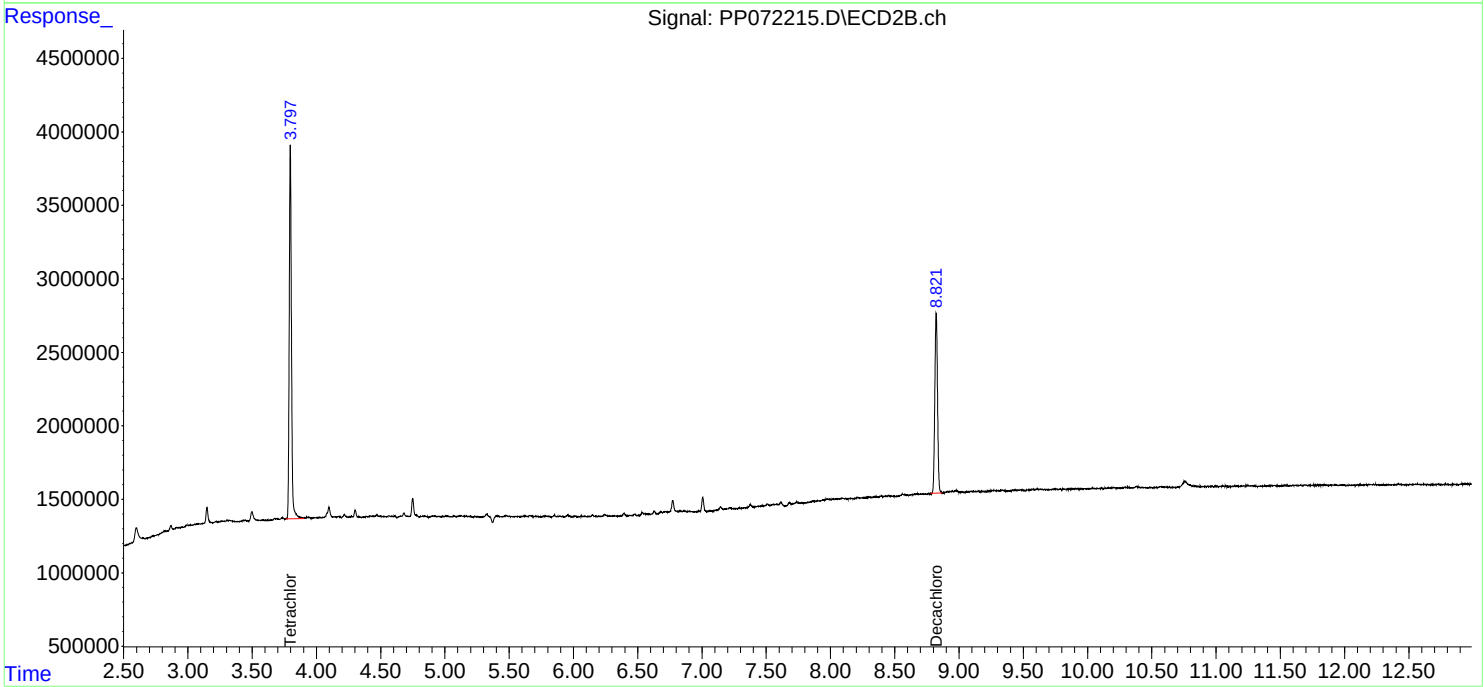
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP052025\
Data File : PP072215.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 May 2025 15:44
Operator : YP\AJ
Sample : Q2074-06
Misc :
ALS Vial : 14 Sample Multiplier: 1

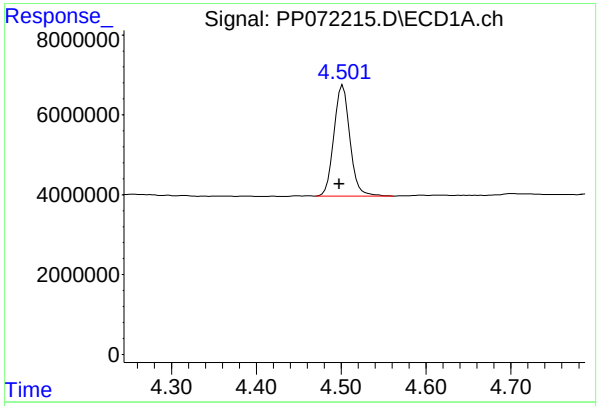
Instrument :
ECD_P
ClientSampleId :
TP-19

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 21 03:16:58 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



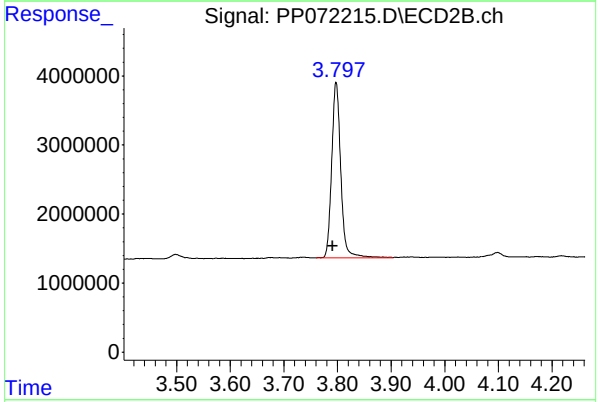




#1 Tetrachloro-m-xylene

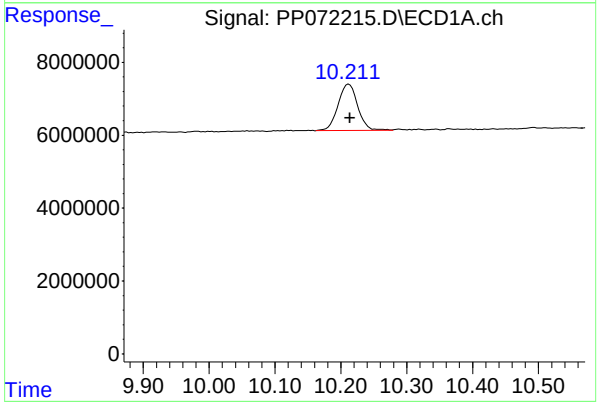
R.T.: 4.502 min
Delta R.T.: 0.004 min
Response: 36328466
Conc: 18.07 ng/ml

Instrument :
ECD_P
ClientSampleId :
TP-19



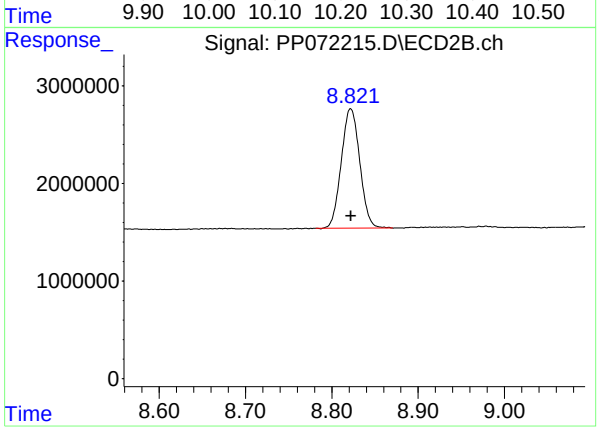
#1 Tetrachloro-m-xylene

R.T.: 3.797 min
Delta R.T.: 0.006 min
Response: 30006623
Conc: 18.77 ng/ml



#2 Decachlorobiphenyl

R.T.: 10.212 min
Delta R.T.: -0.002 min
Response: 26175128
Conc: 16.07 ng/ml



#2 Decachlorobiphenyl

R.T.: 8.822 min
Delta R.T.: 0.000 min
Response: 18242182
Conc: 17.23 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP052025\
Data File : PP072216.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 May 2025 16:00
Operator : YP\AJ
Sample : Q2074-07
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
ECD_P
ClientSampleId :
TP-40

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 21 03:17:13 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...	4.502	3.798	38362656	32277093	19.078	20.194
2)	SA Decachlor...	10.210	8.821	26350959	17493194	16.175	16.525
	Target Compounds						

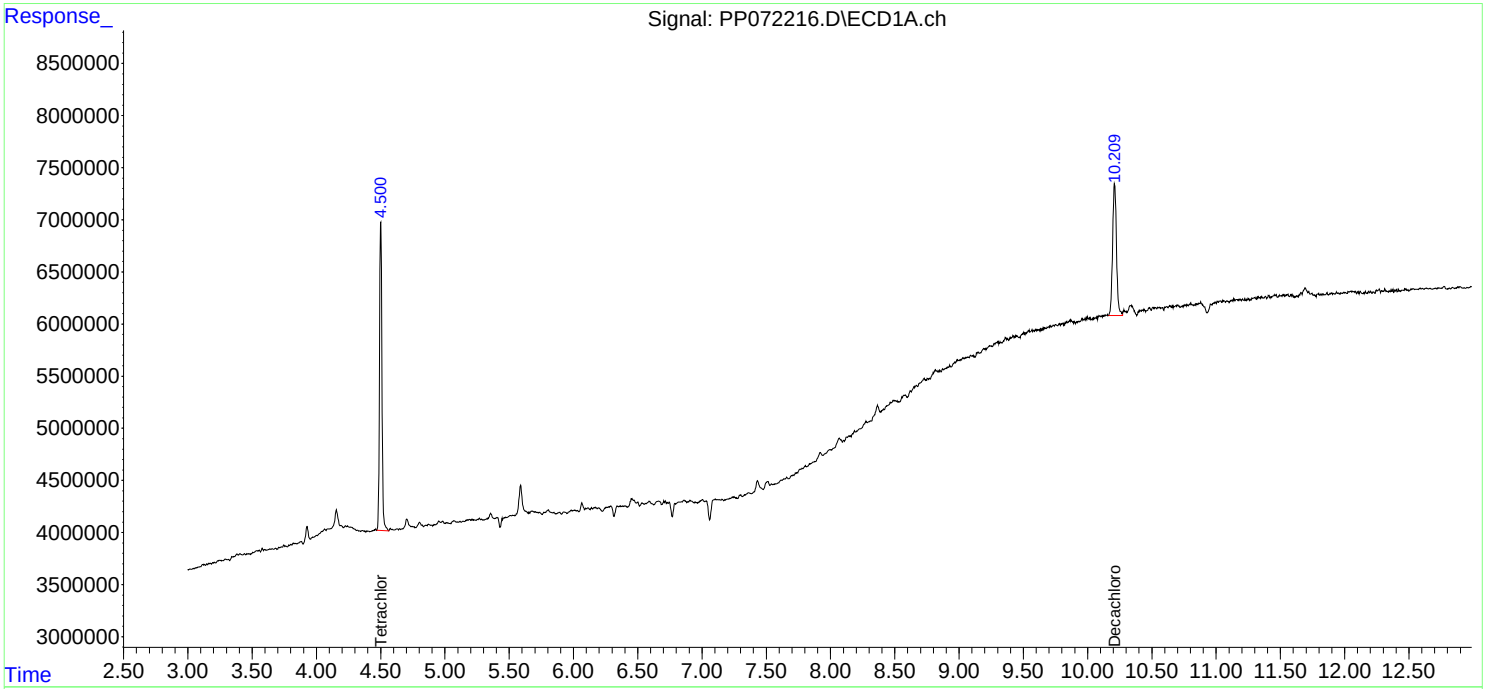
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

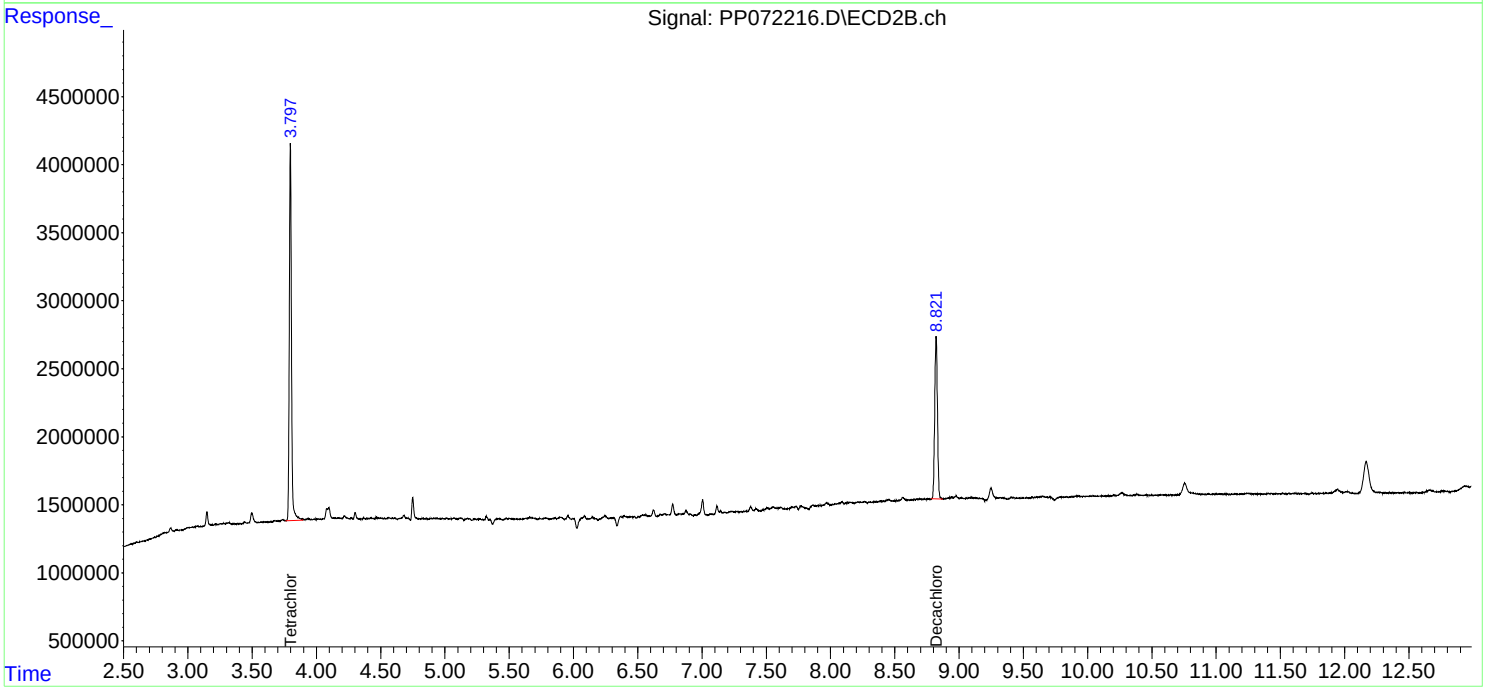
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP052025\
Data File : PP072216.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 May 2025 16:00
Operator : YP\AJ
Sample : Q2074-07
Misc :
ALS Vial : 15 Sample Multiplier: 1

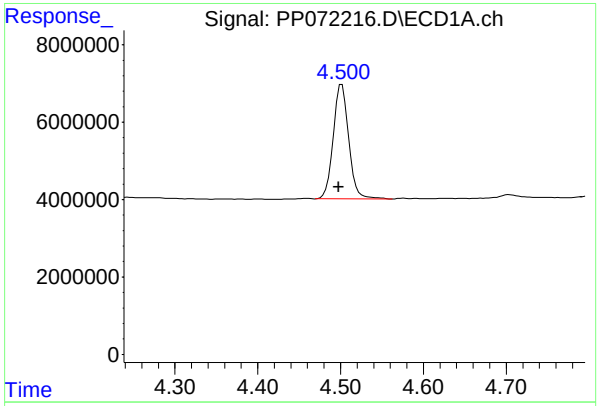
Instrument :
ECD_P
ClientSampleId :
TP-40

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 21 03:17:13 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



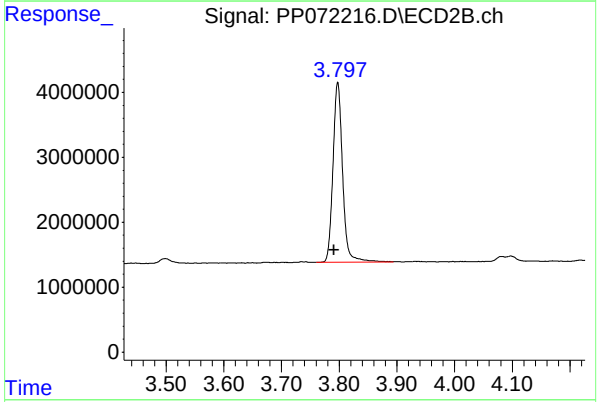




#1 Tetrachloro-m-xylene

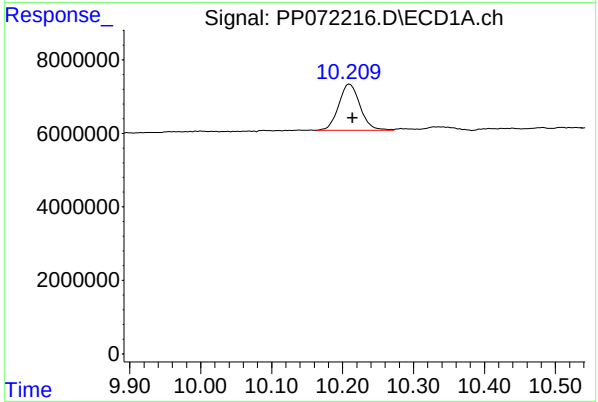
R.T.: 4.502 min
Delta R.T.: 0.004 min
Response: 38362656
Conc: 19.08 ng/ml

Instrument :
ECD_P
ClientSampleId :
TP-40



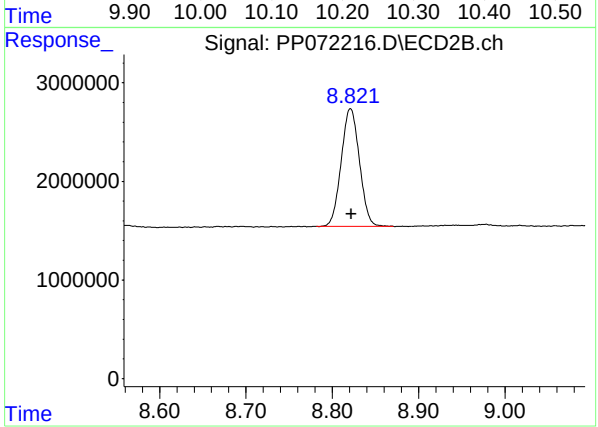
#1 Tetrachloro-m-xylene

R.T.: 3.798 min
Delta R.T.: 0.006 min
Response: 32277093
Conc: 20.19 ng/ml



#2 Decachlorobiphenyl

R.T.: 10.210 min
Delta R.T.: -0.004 min
Response: 26350959
Conc: 16.17 ng/ml



#2 Decachlorobiphenyl

R.T.: 8.821 min
Delta R.T.: 0.000 min
Response: 17493194
Conc: 16.52 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP052025\
Data File : PP072217.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 May 2025 16:16
Operator : YP\AJ
Sample : Q2074-08
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
ECD_P
ClientSampleId :
TP-18

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 21 03:17:28 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...	4.505	3.798	36121686	29815431	17.964	18.654
2)	SA Decachlor...	10.216	8.823	25603222	17337055	15.716	16.377
	Target Compounds						

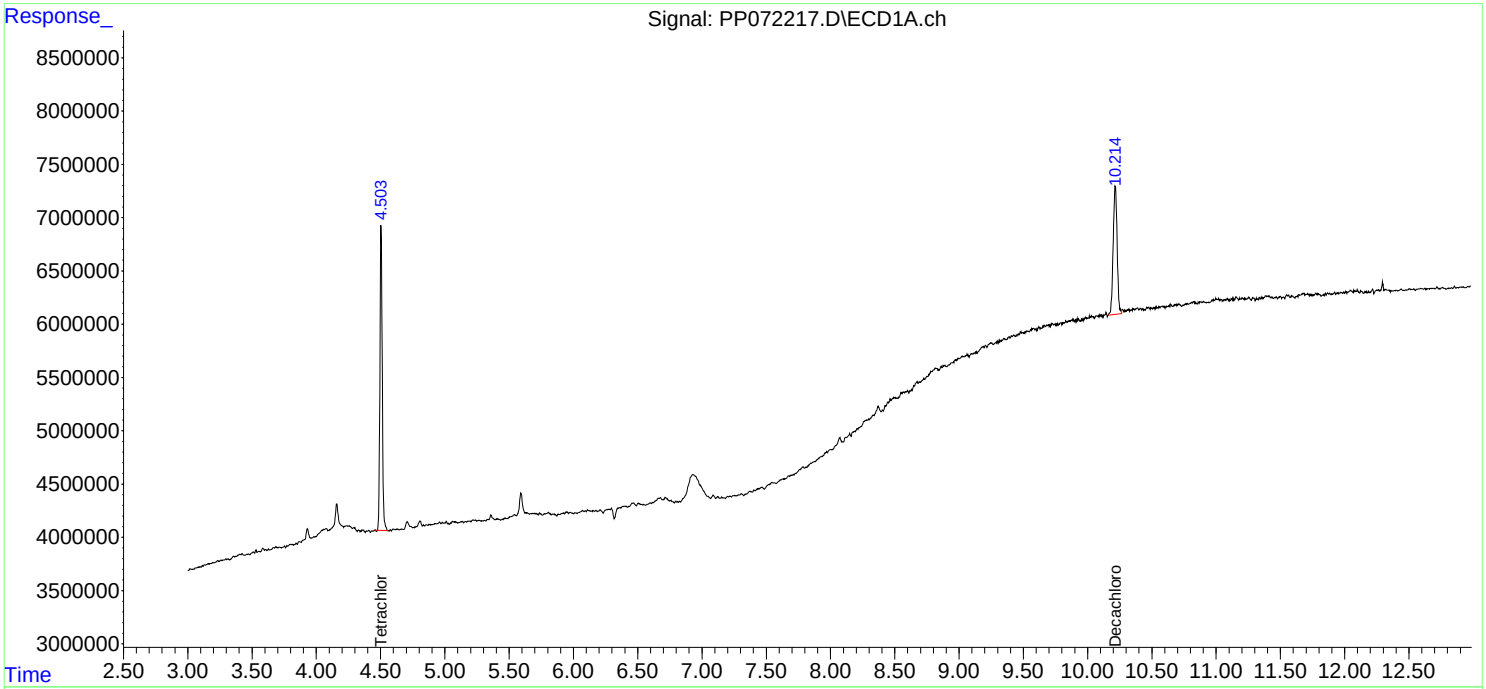
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

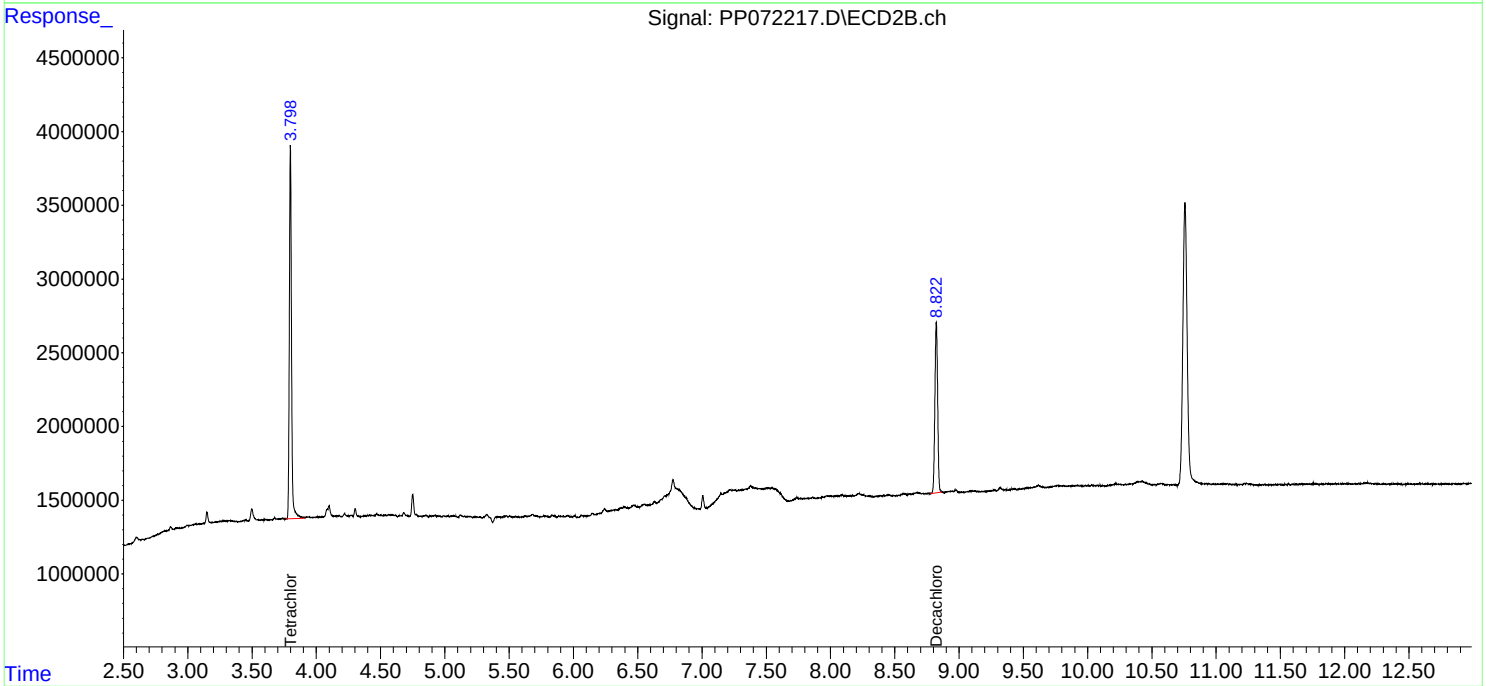
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP052025\
Data File : PP072217.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 May 2025 16:16
Operator : YP\AJ
Sample : Q2074-08
Misc :
ALS Vial : 16 Sample Multiplier: 1

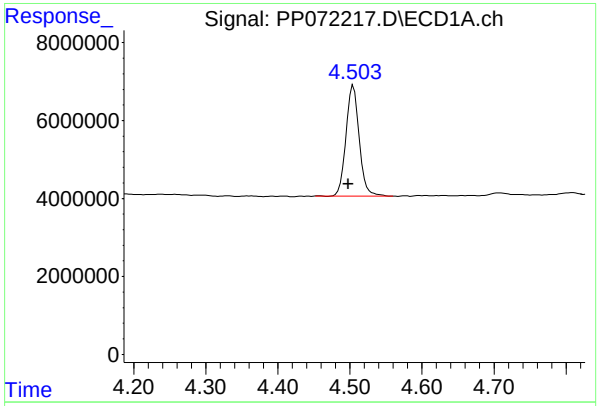
Instrument :
ECD_P
ClientSampleId :
TP-18

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 21 03:17:28 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



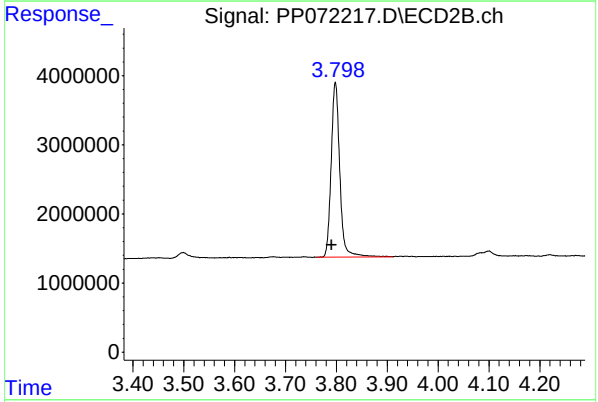




#1 Tetrachloro-m-xylene

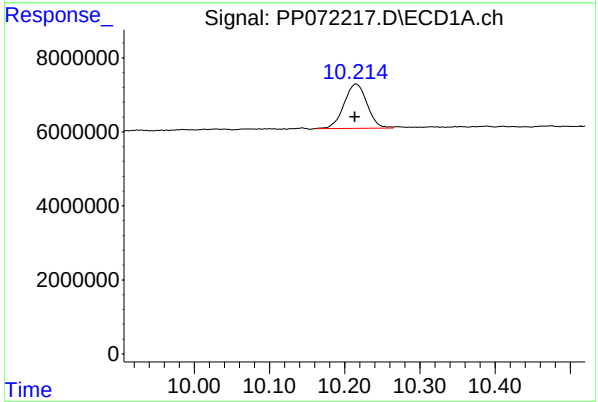
R.T.: 4.505 min
Delta R.T.: 0.007 min
Response: 36121686
Conc: 17.96 ng/ml

Instrument :
ECD_P
ClientSampleId :
TP-18



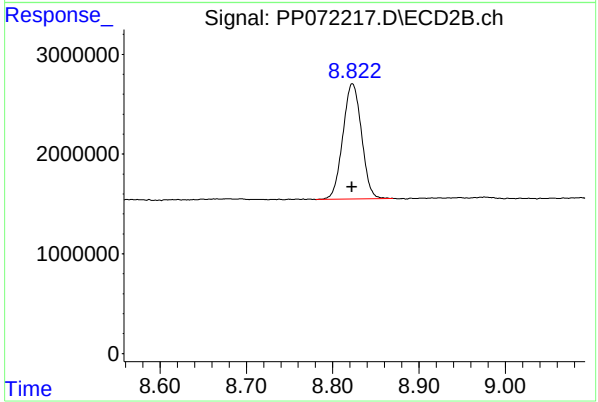
#1 Tetrachloro-m-xylene

R.T.: 3.798 min
Delta R.T.: 0.007 min
Response: 29815431
Conc: 18.65 ng/ml



#2 Decachlorobiphenyl

R.T.: 10.216 min
Delta R.T.: 0.002 min
Response: 25603222
Conc: 15.72 ng/ml



#2 Decachlorobiphenyl

R.T.: 8.823 min
Delta R.T.: 0.000 min
Response: 17337055
Conc: 16.38 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP052025\
Data File : PP072208.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 May 2025 13:49
Operator : YP\AJ
Sample : PB168074BL
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
ECD_P
ClientSampleId :
PB168074BL

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 21 03:15:10 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	3.797	37629628	31425776	18.714	19.661
2)	SA Decachlor...	10.212	8.821	31357143	21123924	19.248	19.955
	Target Compounds						

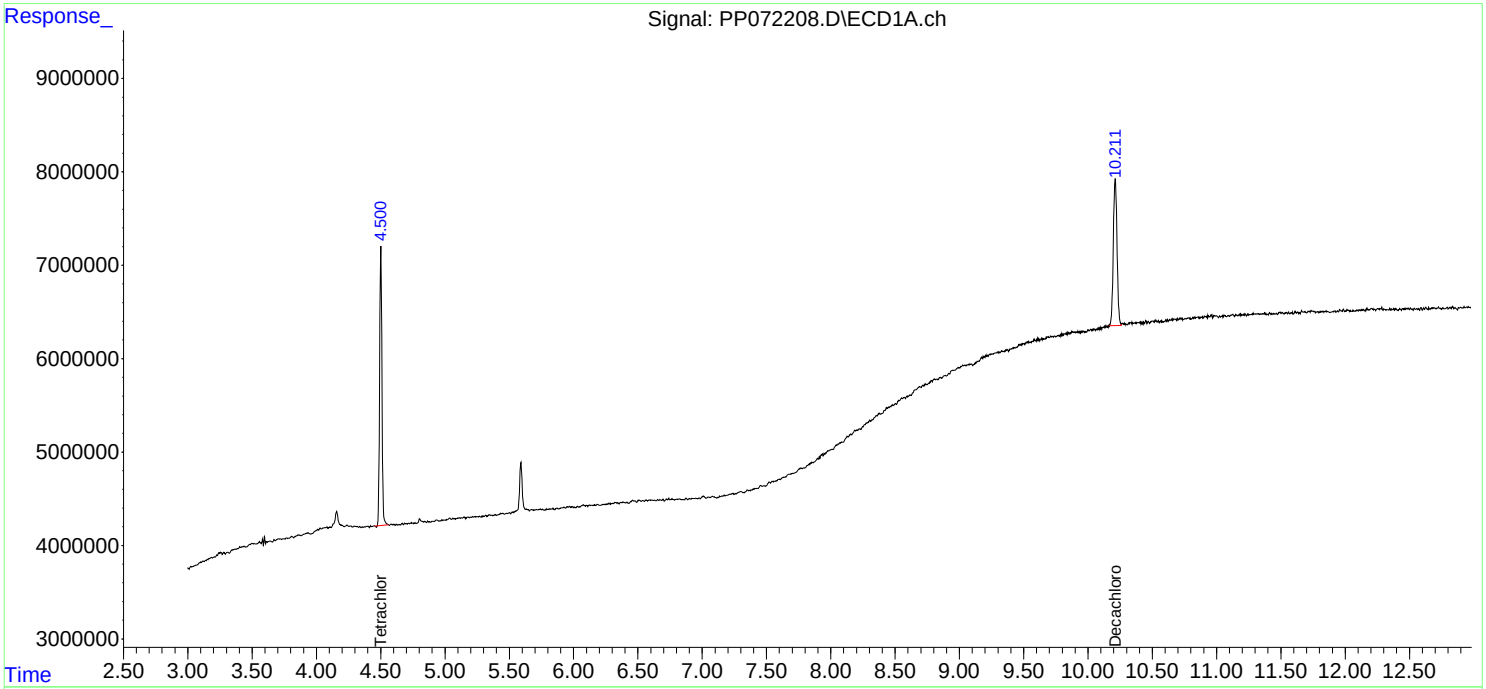
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

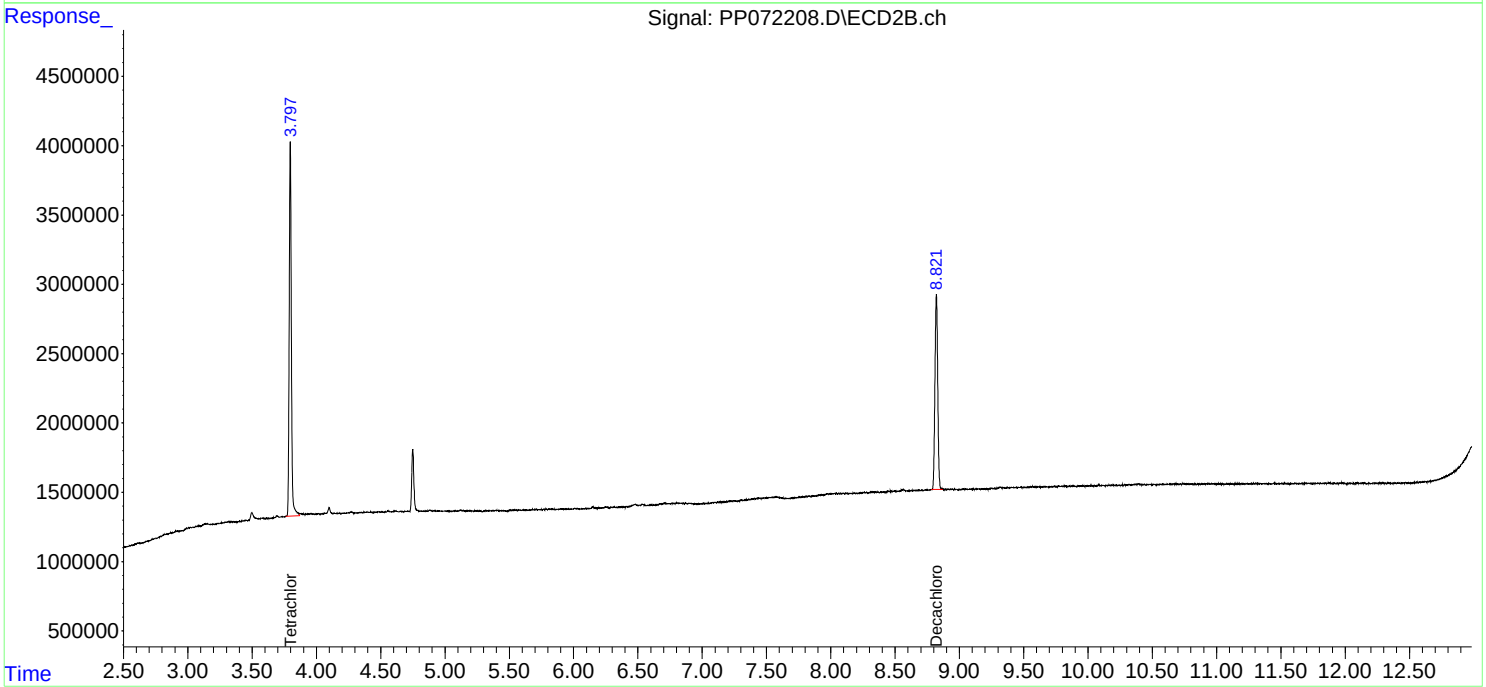
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP052025\
Data File : PP072208.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 May 2025 13:49
Operator : YP\AJ
Sample : PB168074BL
Misc :
ALS Vial : 7 Sample Multiplier: 1

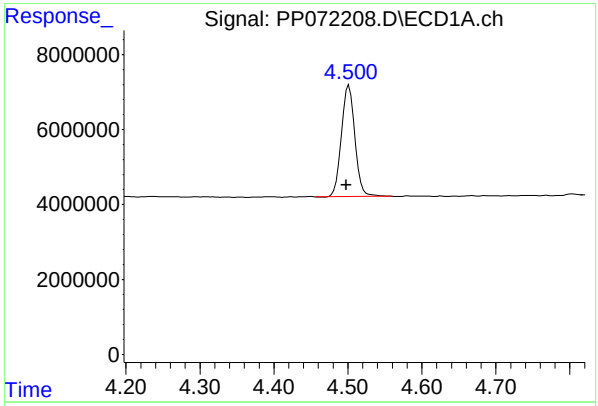
Instrument :
ECD_P
ClientSampleId :
PB168074BL

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 21 03:15:10 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



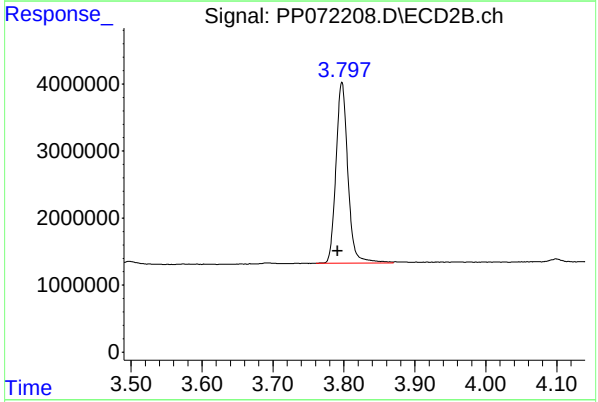




#1 Tetrachloro-m-xylene

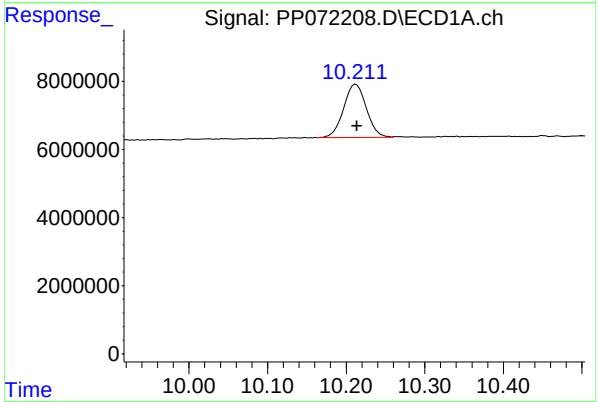
R.T.: 4.501 min
Delta R.T.: 0.003 min
Response: 37629628
Conc: 18.71 ng/ml

Instrument :
ECD_P
ClientSampleId :
PB168074BL



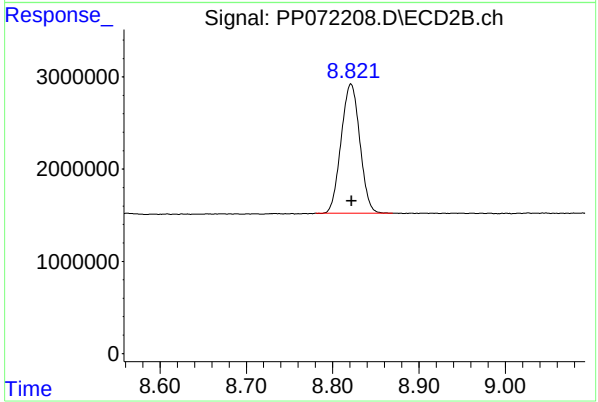
#1 Tetrachloro-m-xylene

R.T.: 3.797 min
Delta R.T.: 0.006 min
Response: 31425776
Conc: 19.66 ng/ml



#2 Decachlorobiphenyl

R.T.: 10.212 min
Delta R.T.: -0.002 min
Response: 31357143
Conc: 19.25 ng/ml



#2 Decachlorobiphenyl

R.T.: 8.821 min
Delta R.T.: 0.000 min
Response: 21123924
Conc: 19.95 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP052025\
Data File : PP072209.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 May 2025 14:06
Operator : YP\AJ
Sample : PB168074BS
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
ECD_P
ClientSampleId :
PB168074BS

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 05/21/2025
Supervised By :mohammad ahmed 05/22/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 21 03:15:25 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	3.796	40615976	30428200	20.199	19.037
2)	SA Decachlor...	10.210	8.820	33128303	22206227	20.335	20.977
	Target Compounds						
3)	L1 AR-1016-1	5.654	4.880	29265074	25864520	389.766	421.044
4)	L1 AR-1016-2	5.675	4.898	46721951	37054325	436.688	422.082
5)	L1 AR-1016-3	5.738	5.075	27121215	20610388	413.654	432.496
6)	L1 AR-1016-4	5.835	5.117	22637029	16349505	424.949	429.738
7)	L1 AR-1016-5	6.128	5.331	20163569	20755351	412.265	416.570
31)	L7 AR-1260-1	7.247	6.364	42228208	35044741	451.181	439.412m
32)	L7 AR-1260-2	7.500	6.553	64104090	41671042	446.750	410.867
33)	L7 AR-1260-3	7.859	6.705	44039649	39996106	386.751	460.242m
34)	L7 AR-1260-4	8.083	7.176	44951229	28525488	418.920	395.688m
35)	L7 AR-1260-5	8.402	7.417	93529273	66643079	395.202	383.836m

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

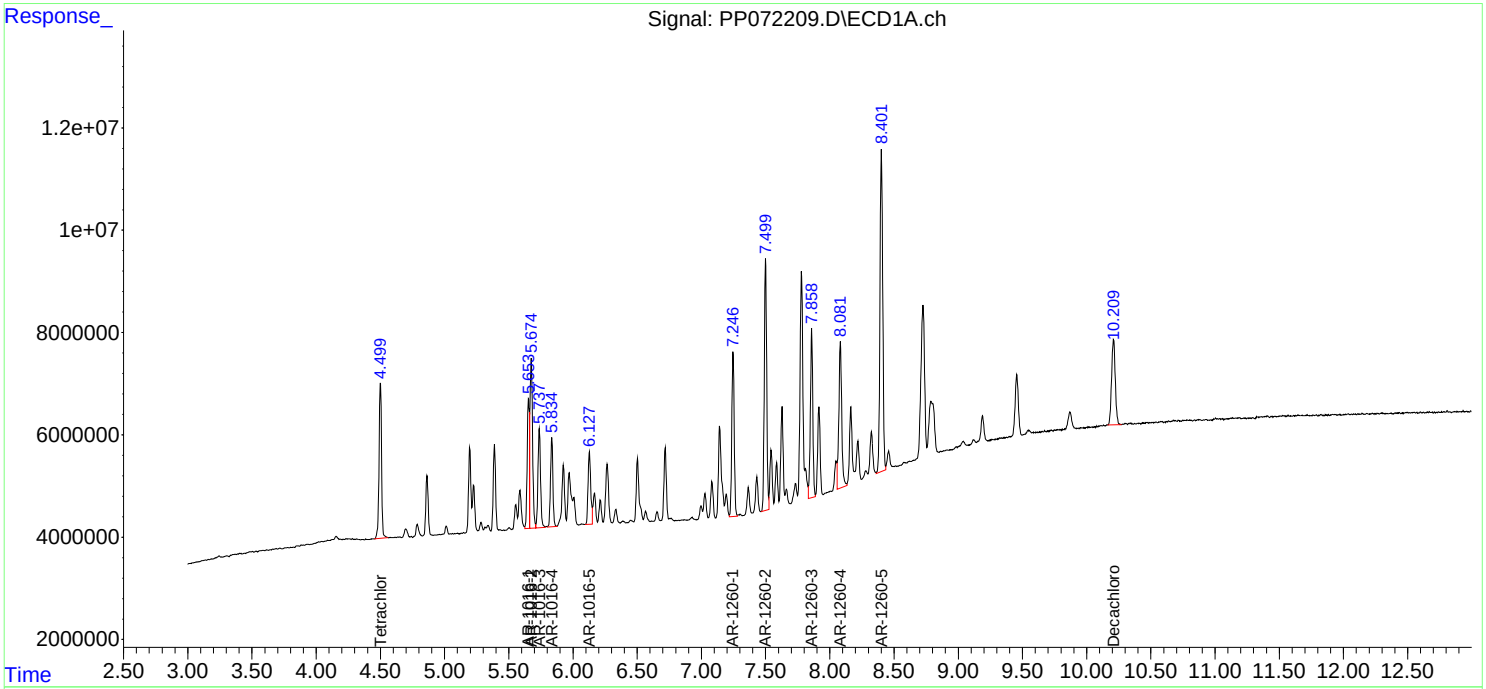
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP052025\
Data File : PP072209.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 May 2025 14:06
Operator : YP\AJ
Sample : PB168074BS
Misc :
ALS Vial : 8 Sample Multiplier: 1

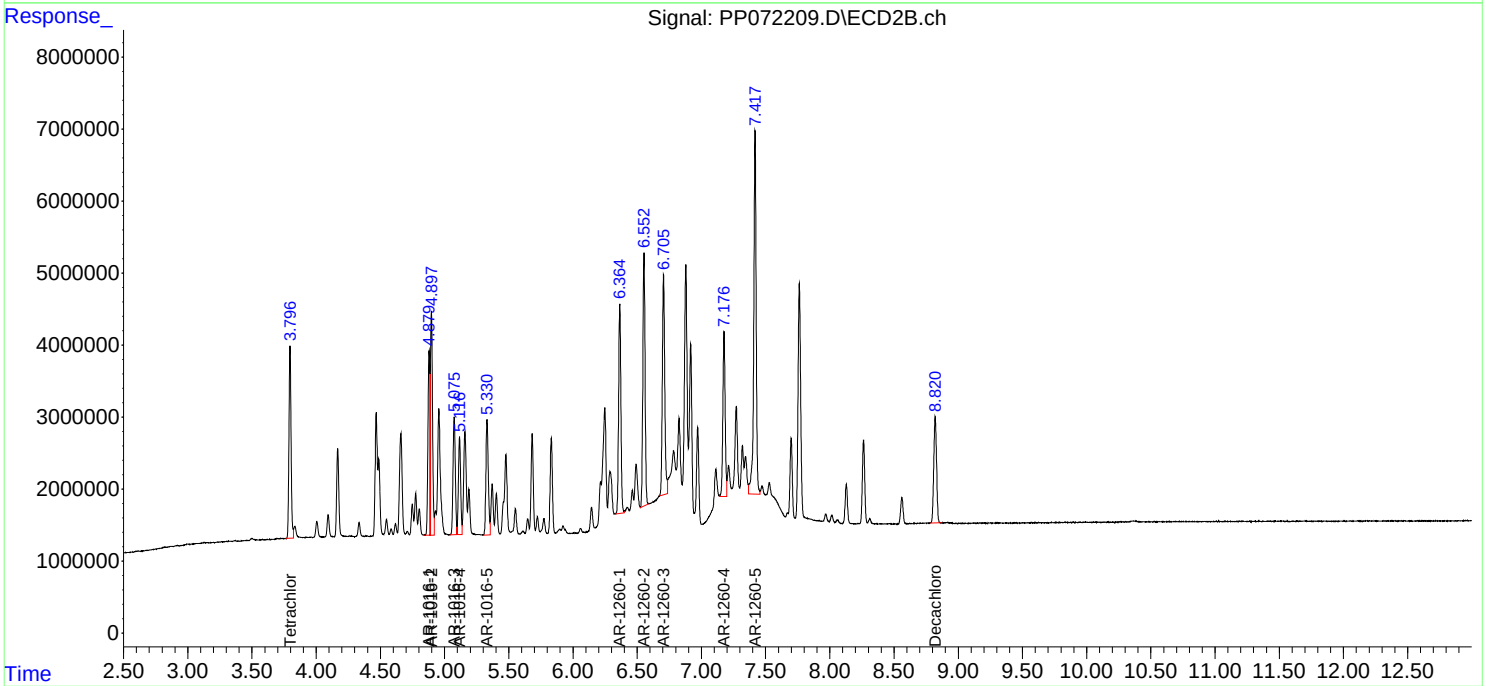
Instrument :
ECD_P
ClientSampleId :
PB168074BS

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 05/21/2025
Supervised By :mohammad ahmed 05/22/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 21 03:15:25 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_P\Data\PP052025\
Data File : PP072224.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 May 2025 19:16
Operator : YP\AJ
Sample : Q2080-01MS
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
ECD_P
ClientSampleId :
PL-HRH-COMP-01MS

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 21 03:19:14 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	37967524	28996006	18.882	18.141
2)	SA Decachlor...	10.210	8.821	24799285	18280088	15.222	17.268
	Target Compounds						
3)	L1 AR-1016-1	5.655	4.880	30787285	26820959	410.040	436.613
4)	L1 AR-1016-2	5.677	4.898	47994815	38041635	448.585	433.329
5)	L1 AR-1016-3	5.739	5.075	28102763	21243854	428.625	445.789
6)	L1 AR-1016-4	5.836	5.117	24038759	16661861	451.263	437.948
7)	L1 AR-1016-5	6.128	5.331	21462115	21635034	438.816	434.225
31)	L7 AR-1260-1	7.247	6.365	40974094	35838638	437.782	449.366
32)	L7 AR-1260-2	7.501	6.553	60223285	41630635	419.705	410.469
33)	L7 AR-1260-3	7.859	6.705	41375552	38805197	363.355	446.538
34)	L7 AR-1260-4	8.083	7.176	43289993	28359733	403.438	393.388
35)	L7 AR-1260-5	8.404	7.418	87400817	65776754	369.306	378.846

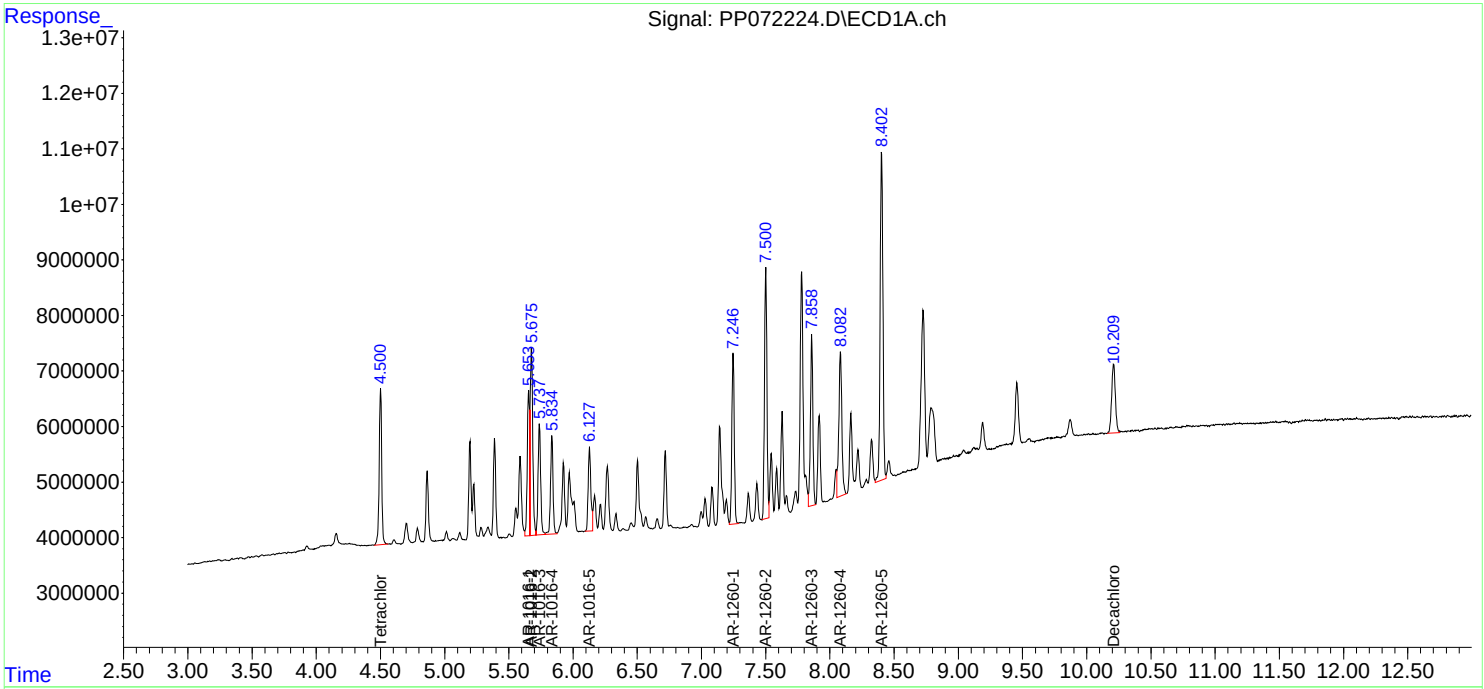
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

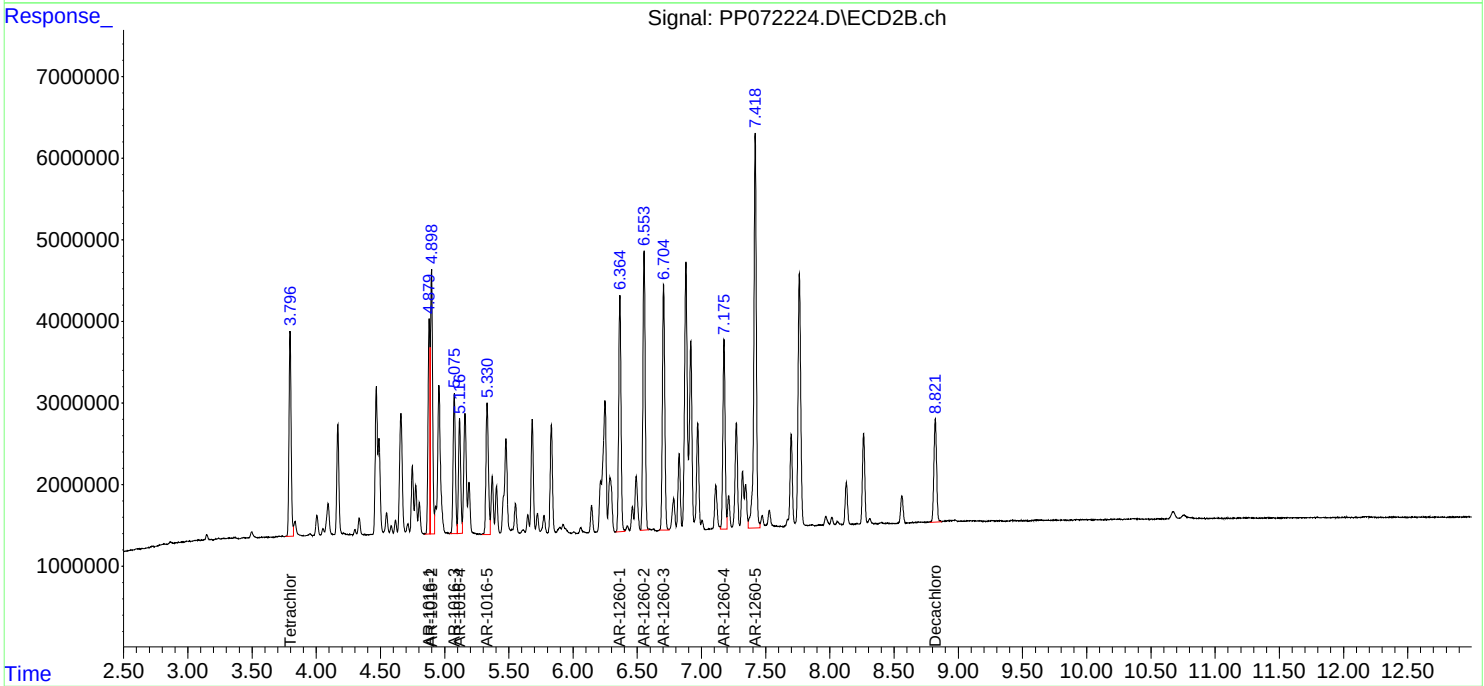
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP052025\
Data File : PP072224.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 May 2025 19:16
Operator : YP\AJ
Sample : Q2080-01MS
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
ECD_P
ClientSampleId :
PL-HRH-COMP-01MS

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 21 03:19:14 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_P\Data\PP052025\
Data File : PP072225.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 May 2025 19:32
Operator : YP\AJ
Sample : Q2080-01MSD
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
ECD_P
ClientSampleId :
PL-HRH-COMP-01MSD

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 05/21/2025
Supervised By :mohammad ahmed 05/22/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 21 03:19:29 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	3.798	40139471	31658502	19.962	19.807
2)	SA Decachlor...	10.210	8.822	26475887	18847885	16.252	17.805
	Target Compounds						
3)	L1 AR-1016-1	5.655	4.880	33519714	28470981	446.432	463.474
4)	L1 AR-1016-2	5.676	4.899	50168116	40650074	468.897	463.041
5)	L1 AR-1016-3	5.739	5.076	29916638	22487204	456.290	471.880
6)	L1 AR-1016-4	5.836	5.117	25005643	17698769	469.413	465.202
7)	L1 AR-1016-5	6.129	5.332	22739318	22882697	464.929	459.267
31)	L7 AR-1260-1	7.247	6.365	43472256	37667010	464.473	472.292
32)	L7 AR-1260-2	7.501	6.553	63671636	44014488	443.737	433.973
33)	L7 AR-1260-3	7.860	6.706	44182798	41541245	388.008	478.022
34)	L7 AR-1260-4	8.082	7.177	45269226	29494998	421.884m	409.136
35)	L7 AR-1260-5	8.403	7.419	92995767	69074034	392.947	397.837

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

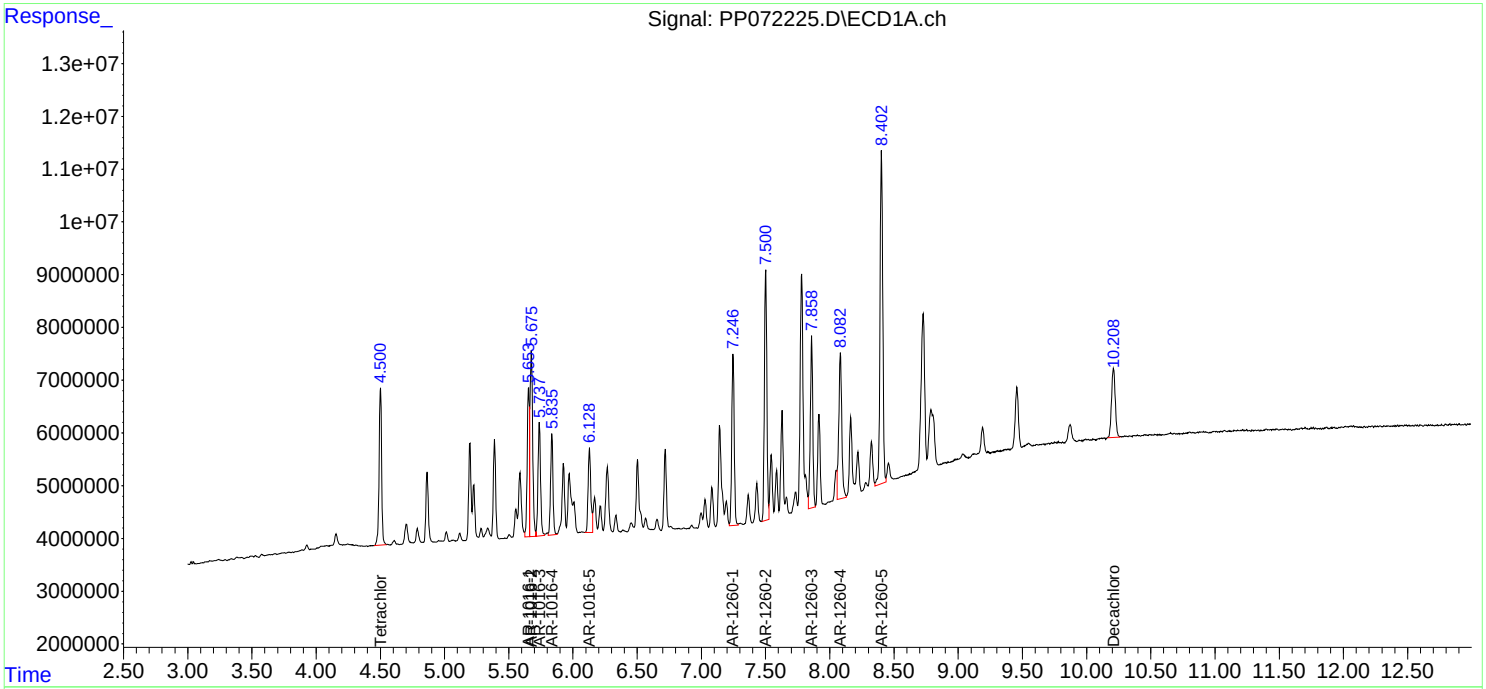
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP052025\
Data File : PP072225.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 May 2025 19:32
Operator : YP\AJ
Sample : Q2080-01MSD
Misc :
ALS Vial : 19 Sample Multiplier: 1

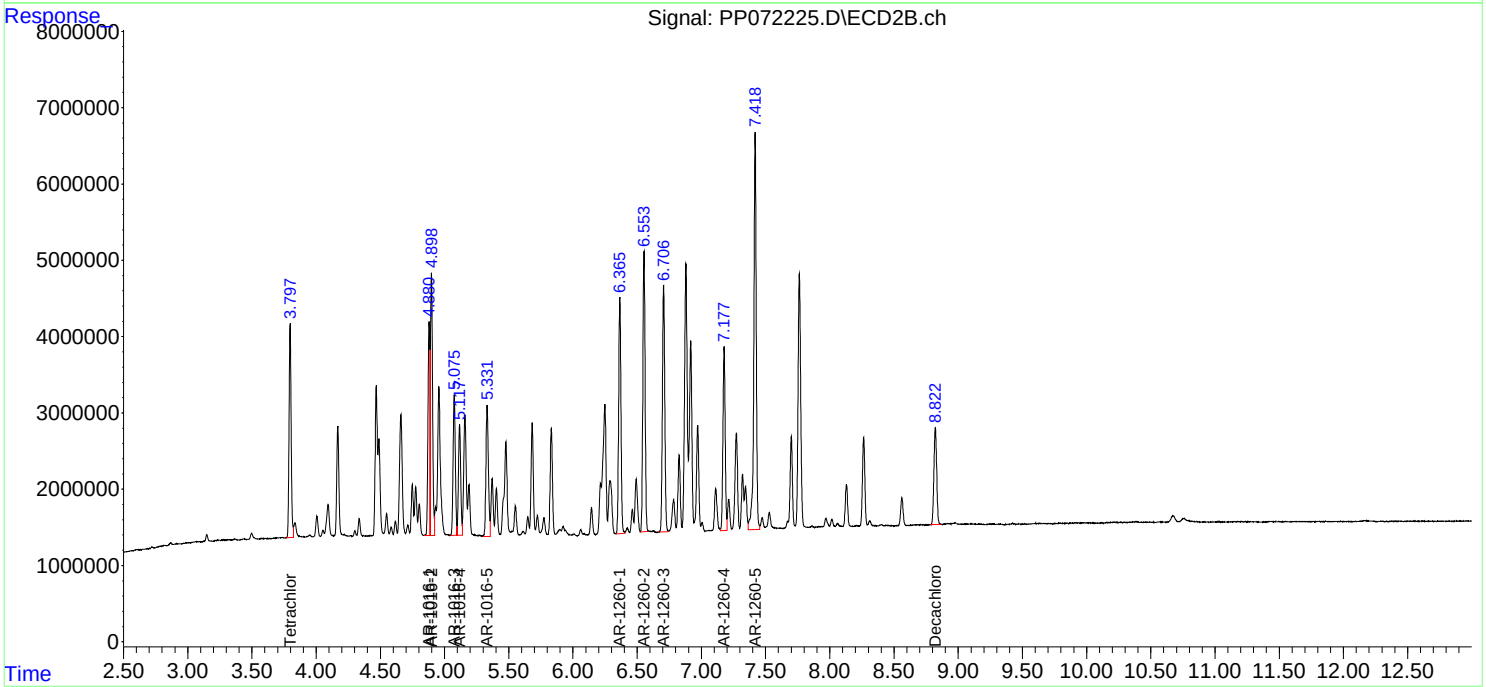
Instrument :
ECD_P
ClientSampleId :
PL-HRH-COMP-01MSD

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 05/21/2025
Supervised By :mohammad ahmed 05/22/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 21 03:19:29 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





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

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:	PP052025	Instrument	ECD_p

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
PB168074BS	PP072209.D	AR-1260-1 #2	yogesh	5/21/2025 8:49:49 AM	mohammad	5/22/2025 6:38:39	Peak Integrated by Software
PB168074BS	PP072209.D	AR-1260-3 #2	yogesh	5/21/2025 8:49:49 AM	mohammad	5/22/2025 6:38:39	Peak Integrated by Software
PB168074BS	PP072209.D	AR-1260-4 #2	yogesh	5/21/2025 8:49:49 AM	mohammad	5/22/2025 6:38:39	Peak Integrated by Software
PB168074BS	PP072209.D	AR-1260-5 #2	yogesh	5/21/2025 8:49:49 AM	mohammad	5/22/2025 6:38:39	Peak Integrated by Software
Q2074-01	PP072210.D	Tetrachloro-m-xylene	yogesh	5/21/2025 8:49:51 AM	mohammad	5/22/2025 6:38:39	Peak Integrated by Software
Q2074-04	PP072213.D	Tetrachloro-m-xylene	yogesh	5/21/2025 8:49:52 AM	mohammad	5/22/2025 6:38:39	Peak Integrated by Software
Q2080-01MSD	PP072225.D	AR-1260-4	yogesh	5/21/2025 8:49:53 AM	mohammad	5/22/2025 6:38:39	Peak Integrated by Software

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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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Instrument ID: ECD_P

Daily Analysis Runlog For Sequence/QCBatch ID # PP052025

Review By	yogesh	Review On	5/20/2025 10:27:54 AM		
Supervise By	mohammad	Supervise On	5/22/2025 6:38:39 AM		
SubDirectory	PP052025	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	PP072202.D	20 May 2025 09:35	YP\AJ	Ok
2	AR1660CCC500	PP072203.D	20 May 2025 09:51	YP\AJ	Ok
3	AR1242CCC500	PP072204.D	20 May 2025 10:08	YP\AJ	Ok
4	AR1248CCC500	PP072205.D	20 May 2025 10:24	YP\AJ	Ok
5	AR1254CCC500	PP072206.D	20 May 2025 10:40	YP\AJ	Ok
6	I.BLK	PP072207.D	20 May 2025 10:56	YP\AJ	Ok
7	PB168074BL	PP072208.D	20 May 2025 13:49	YP\AJ	Ok
8	PB168074BS	PP072209.D	20 May 2025 14:06	YP\AJ	Ok,M
9	Q2074-01	PP072210.D	20 May 2025 14:22	YP\AJ	Ok,M
10	Q2074-02	PP072211.D	20 May 2025 14:38	YP\AJ	Ok
11	Q2074-03	PP072212.D	20 May 2025 14:55	YP\AJ	Ok
12	Q2074-04	PP072213.D	20 May 2025 15:11	YP\AJ	Ok,M
13	Q2074-05	PP072214.D	20 May 2025 15:27	YP\AJ	Ok
14	Q2074-06	PP072215.D	20 May 2025 15:44	YP\AJ	Ok
15	Q2074-07	PP072216.D	20 May 2025 16:00	YP\AJ	Ok
16	Q2074-08	PP072217.D	20 May 2025 16:16	YP\AJ	Ok
17	AR1660CCC500	PP072218.D	20 May 2025 17:22	YP\AJ	Ok
18	AR1242CCC500	PP072219.D	20 May 2025 17:54	YP\AJ	Ok
19	AR1248CCC500	PP072220.D	20 May 2025 18:11	YP\AJ	Ok
20	AR1254CCC500	PP072221.D	20 May 2025 18:27	YP\AJ	Ok
21	I.BLK	PP072222.D	20 May 2025 18:44	YP\AJ	Ok

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Instrument ID: ECD_P

Daily Analysis Runlog For Sequence/QCBatch ID # PP052025

Review By	yogesh	Review On	5/20/2025 10:27:54 AM		
Supervise By	mohammad	Supervise On	5/22/2025 6:38:39 AM		
SubDirectory	PP052025	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,PP2
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	Q2080-01	PP072223.D	20 May 2025 19:00	YP\AJ	Ok
23	Q2080-01MS	PP072224.D	20 May 2025 19:16	YP\AJ	Ok
24	Q2080-01MSD	PP072225.D	20 May 2025 19:32	YP\AJ	Ok,M
25	Q2080-07	PP072226.D	20 May 2025 19:49	YP\AJ	Ok
26	PB168081BL	PP072227.D	20 May 2025 20:05	YP\AJ	Ok
27	PB168081BS	PP072228.D	20 May 2025 20:21	YP\AJ	Ok
28	PB168081BSD	PP072229.D	20 May 2025 20:37	YP\AJ	Ok
29	Q2065-01	PP072230.D	20 May 2025 20:54	YP\AJ	Ok
30	Q2067-01	PP072231.D	20 May 2025 21:10	YP\AJ	Not Ok
31	Q2068-03	PP072232.D	20 May 2025 21:26	YP\AJ	Ok,M
32	AR1660CCC500	PP072233.D	20 May 2025 22:48	YP\AJ	Ok
33	AR1242CCC500	PP072234.D	20 May 2025 23:37	YP\AJ	Ok
34	AR1248CCC500	PP072235.D	20 May 2025 23:53	YP\AJ	Ok
35	AR1254CCC500	PP072236.D	21 May 2025 00:09	YP\AJ	Ok
36	I.BLK	PP072237.D	21 May 2025 00:26	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 # 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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284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Instrument ID: ECD_P

Daily Analysis Runlog For Sequence/QCBatch ID # PP051925

Review By	yogesh	Review On	5/19/2025 12:22:08 PM		
Supervise By	mohammad	Supervise On	5/22/2025 6:37:35 AM		
SubDirectory	PP051925	HP Acquire Method		HP Processing Method	PP051925

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24330,PP24331,PP24332,PP24333,PP24334,PP24335,PP24336,PP24337,PP24338,PP24339,PP24340,PP24341,PP24342,PP24343,PP24344,PP24345,PP24346,PP24347,PP24348,PP24349,PP24350,PP24351,PP24352,PP24353,PP24354,PP24355,PP24356,PP24357,PP24358,PP24359,PP24360,PP24361,PP24362,PP24363,PP24364,PP24365,PP24366,PP24367,PP24368,PP24369
CCC	
Internal Standard/PEM	
ICV/I.BLK	PP24370,PP24371,PP24372,PP24373,PP24374,PP24375,PP24376,PP24377,PP24378,PP24379,PP24380,PP24381,PP24382,PP24384,PP24385,PP24386,PP24387
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

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

M : Manual Integration

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Instrument ID: ECD_P

Daily Analysis Runlog For Sequence/QCBatch ID # PP052025

Review By	yogesh	Review On	5/20/2025 10:27:54 AM		
Supervise By	mohammad	Supervise On	5/22/2025 6:38:39 AM		
SubDirectory	PP052025	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	PP072202.D	20 May 2025 09:35		YP\AJ	Ok
2	AR1660CCC500	AR1660CCC500	PP072203.D	20 May 2025 09:51		YP\AJ	Ok
3	AR1242CCC500	AR1242CCC500	PP072204.D	20 May 2025 10:08		YP\AJ	Ok
4	AR1248CCC500	AR1248CCC500	PP072205.D	20 May 2025 10:24		YP\AJ	Ok
5	AR1254CCC500	AR1254CCC500	PP072206.D	20 May 2025 10:40		YP\AJ	Ok
6	I.BLK	I.BLK	PP072207.D	20 May 2025 10:56		YP\AJ	Ok
7	PB168074BL	PB168074BL	PP072208.D	20 May 2025 13:49		YP\AJ	Ok
8	PB168074BS	PB168074BS	PP072209.D	20 May 2025 14:06		YP\AJ	Ok,M
9	Q2074-01	TP-12	PP072210.D	20 May 2025 14:22		YP\AJ	Ok,M
10	Q2074-02	TP-7	PP072211.D	20 May 2025 14:38		YP\AJ	Ok
11	Q2074-03	TP-15	PP072212.D	20 May 2025 14:55		YP\AJ	Ok
12	Q2074-04	TP-20	PP072213.D	20 May 2025 15:11		YP\AJ	Ok,M
13	Q2074-05	TP-38	PP072214.D	20 May 2025 15:27		YP\AJ	Ok
14	Q2074-06	TP-19	PP072215.D	20 May 2025 15:44		YP\AJ	Ok
15	Q2074-07	TP-40	PP072216.D	20 May 2025 16:00		YP\AJ	Ok
16	Q2074-08	TP-18	PP072217.D	20 May 2025 16:16		YP\AJ	Ok
17	AR1660CCC500	AR1660CCC500	PP072218.D	20 May 2025 17:22		YP\AJ	Ok
18	AR1242CCC500	AR1242CCC500	PP072219.D	20 May 2025 17:54		YP\AJ	Ok

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Instrument ID: ECD_P

Daily Analysis Runlog For Sequence/QCBatch ID # PP052025

Review By	yogesh	Review On	5/20/2025 10:27:54 AM		
Supervise By	mohammad	Supervise On	5/22/2025 6:38:39 AM		
SubDirectory	PP052025	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	PP072220.D	20 May 2025 18:11		YP\AJ	Ok
20	AR1254CCC500	AR1254CCC500	PP072221.D	20 May 2025 18:27		YP\AJ	Ok
21	I.BLK	I.BLK	PP072222.D	20 May 2025 18:44		YP\AJ	Ok
22	Q2080-01	PL-HRH-COMP-01	PP072223.D	20 May 2025 19:00		YP\AJ	Ok
23	Q2080-01MS	PL-HRH-COMP-01MS	PP072224.D	20 May 2025 19:16		YP\AJ	Ok
24	Q2080-01MSD	PL-HRH-COMP-01MSD	PP072225.D	20 May 2025 19:32		YP\AJ	Ok,M
25	Q2080-07	PL-HRH-COMP-02	PP072226.D	20 May 2025 19:49		YP\AJ	Ok
26	PB168081BL	PB168081BL	PP072227.D	20 May 2025 20:05		YP\AJ	Ok
27	PB168081BS	PB168081BS	PP072228.D	20 May 2025 20:21		YP\AJ	Ok
28	PB168081BSD	PB168081BSD	PP072229.D	20 May 2025 20:37		YP\AJ	Ok
29	Q2065-01	VACTRUCK-728068	PP072230.D	20 May 2025 20:54		YP\AJ	Ok
30	Q2067-01	303-PPR-FRAC	PP072231.D	20 May 2025 21:10	need clean up	YP\AJ	Not Ok
31	Q2068-03	LAW-25-0074	PP072232.D	20 May 2025 21:26	DCB low in 1st column, AR1254 hits	YP\AJ	Ok,M
32	AR1660CCC500	AR1660CCC500	PP072233.D	20 May 2025 22:48		YP\AJ	Ok
33	AR1242CCC500	AR1242CCC500	PP072234.D	20 May 2025 23:37		YP\AJ	Ok
34	AR1248CCC500	AR1248CCC500	PP072235.D	20 May 2025 23:53		YP\AJ	Ok
35	AR1254CCC500	AR1254CCC500	PP072236.D	21 May 2025 00:09		YP\AJ	Ok
36	I.BLK	I.BLK	PP072237.D	21 May 2025 00:26		YP\AJ	Ok

M : Manual Integration

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EXTRACTION LOGPAGE

PB168074

SOP ID:	M3541-ASE Extraction-14				
Clean Up SOP #:	Acid Cleanup			**Extraction Start Date :**	05/20/2025
Matrix :	Solid			**Extraction Start Time :**	08:45
Weigh By:	EH	**Extraction By:**	RJ	**Extraction End Date :**	05/20/2025
Balance check:	RJ	**Filter By:**	RJ	**Extraction End Time :**	12:00
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	PP24460
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
5/20/25	RS (Lab)	Y-P-Pest/PCB
12:05	**Preparation Group**	**Analysis Group**

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PrepBatch ID : PB168074

Analytical Method: M3541-ASE Extraction-14 **Concentration Date:** 05/20/2025

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB168074BL	ABLK074	PCB	30.01	N/A	ritesh	Evelyn	10			U2-1
PB168074BS	ALCS074	PCB	30.02	N/A	ritesh	Evelyn	10			2
Q2074-01	TP-12	PCB	30.04	N/A	ritesh	Evelyn	10	E		3
Q2074-02	TP-7	PCB	30.03	N/A	ritesh	Evelyn	10	E		4
Q2074-03	TP-15	PCB	30.08	N/A	ritesh	Evelyn	10	E		5
Q2074-04	TP-20	PCB	30.05	N/A	ritesh	Evelyn	10	E		6
Q2074-05	TP-38	PCB	30.07	N/A	ritesh	Evelyn	10	E		U1-1
Q2074-06	TP-19	PCB	30.06	N/A	ritesh	Evelyn	10	E		2
Q2074-07	TP-40	PCB	30.04	N/A	ritesh	Evelyn	10	E		3
Q2074-08	TP-18	PCB	30.02	N/A	ritesh	Evelyn	10	E		4
Q2080-01	PL-HRH-COMP-01	PCB	30.01	N/A	ritesh	Evelyn	10	E		5
Q2080-01MS	PL-HRH-COMP-01MS	PCB	30.03	N/A	ritesh	Evelyn	10	E		6
Q2080-01MSD	PL-HRH-COMP-01MSD	PCB	30.04	N/A	ritesh	Evelyn	10	E		U3-1
Q2080-07	PL-HRH-COMP-02	PCB	30.08	N/A	ritesh	Evelyn	10	E		2

RS 5/20

* **Extracts relinquished on the same date as received.**

1680 8:45

WORKLIST(Hardcopy Internal Chain)

WorkList Name : Q2074 **WorkList ID :** 189618 **Department :** Extraction **Date :** 05-20-2025 08:25:42

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2074-01	TP-12	Solid	PCB	Cool 4 deg C	CAMP02	L31	05/16/2025	8082A
Q2074-02	TP-7	Solid	PCB	Cool 4 deg C	CAMP02	L31	05/16/2025	8082A
Q2074-03	TP-15	Solid	PCB	Cool 4 deg C	CAMP02	L31	05/16/2025	8082A
Q2074-04	TP-20	Solid	PCB	Cool 4 deg C	CAMP02	L31	05/16/2025	8082A
Q2074-05	TP-38	Solid	PCB	Cool 4 deg C	CAMP02	L31	05/16/2025	8082A
Q2074-06	TP-19	Solid	PCB	Cool 4 deg C	CAMP02	L31	05/16/2025	8082A
Q2074-07	TP-40	Solid	PCB	Cool 4 deg C	CAMP02	L31	05/16/2025	8082A
Q2074-08	TP-18	Solid	PCB	Cool 4 deg C	CAMP02	L31	05/16/2025	8082A
Q2080-01	PL-HRH-COMP-01	Solid	PCB	Cool 4 deg C	PSEG03	L31	05/19/2025	8082A
Q2080-07	PL-HRH-COMP-02	Solid	PCB	Cool 4 deg C	PSEG03	L31	05/19/2025	8082A

Date/Time 05/20/25 8:40
Raw Sample Received by: RJ (EZ-Lab)
Raw Sample Relinquished by: CF

Date/Time 05/20/25 9:00
Raw Sample Received by: CF
Raw Sample Relinquished by: RJ (EZ-Lab)

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LAB CHRONICLE

OrderID:	Q2074	**OrderDate:**	5/16/2025 3:13:00 PM
Client:	CDM Smith	**Project:**	South River WM Replacement
Contact:	Marcie Ann Encinas	**Location:**	L31,VOA Ref. #2 Soil

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2074-01	**TP-12**	**SOIL**			**05/15/25**			**05/16/25**
			PCB	8082A		05/20/25	05/20/25	
			Pesticide-TCL	8081B		05/20/25	05/20/25	
			Gasoline Range Organics	8015D			05/20/25	
Q2074-02	**TP-7**	**SOIL**			**05/15/25**			**05/16/25**
			PCB	8082A		05/20/25	05/20/25	
			Pesticide-TCL	8081B		05/20/25	05/20/25	
			Gasoline Range Organics	8015D			05/20/25	
Q2074-03	**TP-15**	**SOIL**			**05/15/25**			**05/16/25**
			PCB	8082A		05/20/25	05/20/25	
			Pesticide-TCL	8081B		05/20/25	05/20/25	
			Gasoline Range Organics	8015D			05/20/25	
Q2074-04	**TP-20**	**SOIL**			**05/15/25**			**05/16/25**
			PCB	8082A		05/20/25	05/20/25	
			Pesticide-TCL	8081B		05/20/25	05/20/25	
			Gasoline Range Organics	8015D			05/20/25	
Q2074-05	**TP-38**	**SOIL**			**05/15/25**			**05/16/25**
			PCB	8082A		05/20/25	05/20/25	
			Pesticide-TCL	8081B		05/20/25	05/20/25	
Q2074-06	**TP-19**	**SOIL**			**05/15/25**			**05/16/25**
			PCB	8082A		05/20/25	05/20/25	
			Pesticide-TCL	8081B		05/20/25	05/20/25	
			Gasoline Range Organics	8015D			05/20/25	
Q2074-07	**TP-40**	**SOIL**			**05/15/25**			**05/16/25**
			PCB	8082A		05/20/25	05/20/25	
			Pesticide-TCL	8081B		05/20/25	05/20/25	

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LAB CHRONICLE

Q2074-08	**TP-18**	**SOIL**		**05/16/25**		**05/16/25**
			PCB	8082A	05/20/25	05/20/25
			Pesticide-TCL	8081B	05/20/25	05/20/25

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Hit Summary Sheet
SW-846

SDG No.: Q2074 **Order ID:** Q2074

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:	05/15/25
Project:	South River WM Replacement	Date Received:	05/16/25
Client Sample ID:	TP-12	SDG No.:	Q2074
Lab Sample ID:	Q2074-01	Matrix:	SOIL
Analytical Method:	8151A	% Solid:	83.5 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
PS030360.D	1	05/21/25 08:30	05/22/25 21:17	PB168097

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
1918-00-9	DICAMBA	9.30	U	9.30	80.1	ug/Kg
120-36-5	DICHLORPROP	15.3	U	15.3	80.1	ug/Kg
94-75-7	2,4-D	10.8	U	10.8	80.1	ug/Kg
93-72-1	2,4,5-TP (Silvex)	10.8	U	10.8	80.1	ug/Kg
93-76-5	2,4,5-T	10.4	U	10.4	80.1	ug/Kg
94-82-6	2,4-DB	28.9	U	28.9	80.1	ug/Kg
88-85-7	DINOSEB	12.9	U	12.9	80.1	ug/Kg
SURROGATES						
19719-28-9	2,4-DCAA	317		10 - 141	63%	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:	05/15/25
Project:	South River WM Replacement	Date Received:	05/16/25
Client Sample ID:	TP-7	SDG No.:	Q2074
Lab Sample ID:	Q2074-02	Matrix:	SOIL
Analytical Method:	8151A	% Solid:	88.7 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
PS030361.D	1	05/21/25 08:30	05/22/25 21:41	PB168097

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
1918-00-9	DICAMBA	8.70	U	8.70	75.5	ug/Kg
120-36-5	DICHLORPROP	14.4	U	14.4	75.5	ug/Kg
94-75-7	2,4-D	10.2	U	10.2	75.5	ug/Kg
93-72-1	2,4,5-TP (Silvex)	10.2	U	10.2	75.5	ug/Kg
93-76-5	2,4,5-T	9.80	U	9.80	75.5	ug/Kg
94-82-6	2,4-DB	27.3	U	27.3	75.5	ug/Kg
88-85-7	DINOSEB	12.2	U	12.2	75.5	ug/Kg
SURROGATES						
19719-28-9	2,4-DCAA	323		10 - 141	65%	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:	05/15/25
Project:	South River WM Replacement	Date Received:	05/16/25
Client Sample ID:	TP-15	SDG No.:	Q2074
Lab Sample ID:	Q2074-03	Matrix:	SOIL
Analytical Method:	8151A	% Solid:	87 Decanted:
Sample Wt/Vol:	30.05 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
PS030362.D	1	05/21/25 08:30	05/22/25 22:05	PB168097

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
1918-00-9	DICAMBA	8.90	U	8.90	76.9	ug/Kg
120-36-5	DICHLORPROP	14.7	U	14.7	76.9	ug/Kg
94-75-7	2,4-D	10.4	U	10.4	76.9	ug/Kg
93-72-1	2,4,5-TP (Silvex)	10.4	U	10.4	76.9	ug/Kg
93-76-5	2,4,5-T	10.0	U	10.0	76.9	ug/Kg
94-82-6	2,4-DB	27.8	U	27.8	76.9	ug/Kg
88-85-7	DINOSEB	12.4	U	12.4	76.9	ug/Kg
SURROGATES						
19719-28-9	2,4-DCAA	335		10 - 141	67%	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:	05/15/25
Project:	South River WM Replacement	Date Received:	05/16/25
Client Sample ID:	TP-20	SDG No.:	Q2074
Lab Sample ID:	Q2074-04	Matrix:	SOIL
Analytical Method:	8151A	% Solid:	84.3 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
PS030363.D	1	05/21/25 08:30	05/22/25 22:29	PB168097

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
1918-00-9	DICAMBA	9.20	U	9.20	79.3	ug/Kg
120-36-5	DICHLORPROP	15.1	U	15.1	79.3	ug/Kg
94-75-7	2,4-D	10.7	U	10.7	79.3	ug/Kg
93-72-1	2,4,5-TP (Silvex)	10.7	U	10.7	79.3	ug/Kg
93-76-5	2,4,5-T	10.3	U	10.3	79.3	ug/Kg
94-82-6	2,4-DB	28.6	U	28.6	79.3	ug/Kg
88-85-7	DINOSEB	12.8	U	12.8	79.3	ug/Kg
SURROGATES						
19719-28-9	2,4-DCAA	345		10 - 141	69%	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:	05/15/25
Project:	South River WM Replacement	Date Received:	05/16/25
Client Sample ID:	TP-38	SDG No.:	Q2074
Lab Sample ID:	Q2074-05	Matrix:	SOIL
Analytical Method:	8151A	% Solid:	81.9 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
PS030364.D	1	05/21/25 08:30	05/22/25 22:53	PB168097

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
1918-00-9	DICAMBA	9.40	U	9.40	81.6	ug/Kg
120-36-5	DICHLORPROP	15.6	U	15.6	81.6	ug/Kg
94-75-7	2,4-D	11.0	U	11.0	81.6	ug/Kg
93-72-1	2,4,5-TP (Silvex)	11.0	U	11.0	81.6	ug/Kg
93-76-5	2,4,5-T	10.6	U	10.6	81.6	ug/Kg
94-82-6	2,4-DB	29.5	U	29.5	81.6	ug/Kg
88-85-7	DINOSEB	13.2	U	13.2	81.6	ug/Kg
SURROGATES						
19719-28-9	2,4-DCAA	374		10 - 141	75%	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:	05/15/25
Project:	South River WM Replacement	Date Received:	05/16/25
Client Sample ID:	TP-19	SDG No.:	Q2074
Lab Sample ID:	Q2074-06	Matrix:	SOIL
Analytical Method:	8151A	% Solid:	85.9 Decanted:
Sample Wt/Vol:	30.04 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
PS030365.D	1	05/21/25 08:30	05/22/25 23:17	PB168097

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
1918-00-9	DICAMBA	9.00	U	9.00	77.9	ug/Kg
120-36-5	DICHLORPROP	14.9	U	14.9	77.9	ug/Kg
94-75-7	2,4-D	10.5	U	10.5	77.9	ug/Kg
93-72-1	2,4,5-TP (Silvex)	10.5	U	10.5	77.9	ug/Kg
93-76-5	2,4,5-T	10.1	U	10.1	77.9	ug/Kg
94-82-6	2,4-DB	28.1	U	28.1	77.9	ug/Kg
88-85-7	DINOSEB	12.6	U	12.6	77.9	ug/Kg
SURROGATES						
19719-28-9	2,4-DCAA	352		10 - 141	70%	SPK: 500

Comments:

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MDL = Method Detection Limit
LOD = Limit of Detection
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Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

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:	05/15/25
Project:	South River WM Replacement	Date Received:	05/16/25
Client Sample ID:	TP-40	SDG No.:	Q2074
Lab Sample ID:	Q2074-07	Matrix:	SOIL
Analytical Method:	8151A	% Solid:	89.2 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
PS030366.D	1	05/21/25 08:30	05/22/25 23:41	PB168097

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
1918-00-9	DICAMBA	8.70	U	8.70	75.1	ug/Kg
120-36-5	DICHLORPROP	14.3	U	14.3	75.1	ug/Kg
94-75-7	2,4-D	10.1	U	10.1	75.1	ug/Kg
93-72-1	2,4,5-TP (Silvex)	10.2	U	10.2	75.1	ug/Kg
93-76-5	2,4,5-T	9.70	U	9.70	75.1	ug/Kg
94-82-6	2,4-DB	27.1	U	27.1	75.1	ug/Kg
88-85-7	DINOSEB	12.1	U	12.1	75.1	ug/Kg
SURROGATES						
19719-28-9	2,4-DCAA	280		10 - 141	56%	SPK: 500

Comments:

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LOD = Limit of Detection
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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
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Report of Analysis

Client:	CDM Smith	Date Collected:	05/16/25
Project:	South River WM Replacement	Date Received:	05/16/25
Client Sample ID:	TP-18	SDG No.:	Q2074
Lab Sample ID:	Q2074-08	Matrix:	SOIL
Analytical Method:	8151A	% Solid:	78 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
PS030367.D	1	05/21/25 08:30	05/23/25 00:05	PB168097

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
1918-00-9	DICAMBA	9.90	U	9.90	85.7	ug/Kg
120-36-5	DICHLORPROP	16.4	U	16.4	85.7	ug/Kg
94-75-7	2,4-D	11.6	U	11.6	85.7	ug/Kg
93-72-1	2,4,5-TP (Silvex)	11.6	U	11.6	85.7	ug/Kg
93-76-5	2,4,5-T	11.1	U	11.1	85.7	ug/Kg
94-82-6	2,4-DB	31.0	U	31.0	85.7	ug/Kg
88-85-7	DINOSEB	13.8	U	13.8	85.7	ug/Kg
SURROGATES						
19719-28-9	2,4-DCAA	324		10 - 141	65%	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
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() = Laboratory InHouse Limit

QC SUMMARY

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Surrogate Summary

SDG No.: Q2074

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-PS030313.D	PIBLK-PS030313.D	2,4-DCAA	1	500	492	98		39	175
		2,4-DCAA	2	500	474	95		39	175
PB168097BL	PB168097BL	2,4-DCAA	1	500	417	83		10	141
		2,4-DCAA	2	500	357	71		10	141
PB168097BS	PB168097BS	2,4-DCAA	1	500	535	107		10	141
		2,4-DCAA	2	500	506	101		10	141
I.BLK-PS030323.D	PIBLK-PS030323.D	2,4-DCAA	1	500	497	99		39	175
		2,4-DCAA	2	500	492	98		39	175
Q2071-01MS	L1-WC-7MS	2,4-DCAA	1	500	517	103		10	141
		2,4-DCAA	2	500	400	80		10	141
Q2071-01MSD	L1-WC-7MSD	2,4-DCAA	1	500	518	104		10	141
		2,4-DCAA	2	500	403	81		10	141
I.BLK-PS030333.D	PIBLK-PS030333.D	2,4-DCAA	1	500	501	100		39	175
		2,4-DCAA	2	500	496	99		39	175
I.BLK-PS030358.D	PIBLK-PS030358.D	2,4-DCAA	1	500	513	103		39	175
		2,4-DCAA	2	500	501	100		39	175
Q2074-01	TP-12	2,4-DCAA	1	500	317	63		10	141
		2,4-DCAA	2	500	290	58		10	141
Q2074-02	TP-7	2,4-DCAA	1	500	323	65		10	141
		2,4-DCAA	2	500	271	54		10	141
Q2074-03	TP-15	2,4-DCAA	1	500	335	67		10	141
		2,4-DCAA	2	500	317	63		10	141
Q2074-04	TP-20	2,4-DCAA	1	500	345	69		10	141
		2,4-DCAA	2	500	305	61		10	141
Q2074-05	TP-38	2,4-DCAA	1	500	374	75		10	141
		2,4-DCAA	2	500	343	69		10	141
Q2074-06	TP-19	2,4-DCAA	1	500	352	70		10	141
		2,4-DCAA	2	500	310	62		10	141
Q2074-07	TP-40	2,4-DCAA	1	500	280	56		10	141
		2,4-DCAA	2	500	239	48		10	141
Q2074-08	TP-18	2,4-DCAA	1	500	324	65		10	141
		2,4-DCAA	2	500	297	59		10	141
I.BLK-PS030368.D	PIBLK-PS030368.D	2,4-DCAA	1	500	514	103		39	175
		2,4-DCAA	2	500	513	103		39	175

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q2074 **Analytical Method:** 8151A

Client: CDM Smith **DataFile :** PS030326.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:	**L1-WC-7MS**											
Q2071-01MS (Column 1)	DICAMBA	192.4	0	150	ug/Kg	78				10	112	
	DICHLORPROP	192.4	0	164	ug/Kg	85				10	113	
	2,4-D	192.4	0	188	ug/Kg	98				10	144	
	2,4,5-TP(Silvex)	192.4	0	159	ug/Kg	83				10	114	
	2,4,5-T	192.4	0	158	ug/Kg	82				10	115	
	2,4-DB	192.4	0	198	ug/Kg	103				10	140	
	Dinoseb	192.4	0	16.4	ug/Kg	9	*			10	118	
Client Sample ID:	**L1-WC-7MS**											
Q2071-01MS (Column 2)	DICAMBA	192.4	0	149	ug/Kg	77				10	112	
	DICHLORPROP	192.4	0	157	ug/Kg	82				10	113	
	2,4-D	192.4	0	175	ug/Kg	91				10	144	
	2,4,5-TP(Silvex)	192.4	0	165	ug/Kg	86				10	114	
	2,4,5-T	192.4	0	157	ug/Kg	82				10	115	
	2,4-DB	192.4	0	134	ug/Kg	70				10	140	
	Dinoseb	192.4	0	12.6	ug/Kg	7	*			10	118	

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q2074 **Analytical Method:** 8151A

Client: CDM Smith **DataFile :** PS030327.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:	**L1-WC-7MSD**											
Q2071-01MSD (Column 1)	DICAMBA	192.3	0	151	ug/Kg	79		1		10	112	20
	DICHLORPROP	192.3	0	165	ug/Kg	86		1		10	113	20
	2,4-D	192.3	0	189	ug/Kg	98		0		10	144	20
	2,4,5-TP(Silvex)	192.3	0	161	ug/Kg	84		1		10	114	20
	2,4,5-T	192.3	0	160	ug/Kg	83		1		10	115	20
	2,4-DB	192.3	0	198	ug/Kg	103		0		10	140	20
	Dinoseb	192.3	0	15.8	ug/Kg	8	*	12		10	118	20
Client Sample ID:	**L1-WC-7MSD**											
Q2071-01MSD (Column 2)	DICAMBA	192.3	0	150	ug/Kg	78		1		10	112	20
	DICHLORPROP	192.3	0	157	ug/Kg	82		0		10	113	20
	2,4-D	192.3	0	176	ug/Kg	92		1		10	144	20
	2,4,5-TP(Silvex)	192.3	0	167	ug/Kg	87		1		10	114	20
	2,4,5-T	192.3	0	158	ug/Kg	82		0		10	115	20
	2,4-DB	192.3	0	165	ug/Kg	86		21		10	140	20
	Dinoseb	192.3	0	0	ug/Kg	0	*	200		10	118	20

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2074 **Analytical Method:** 8151A

Client: CDM Smith **Datafile :** PS030316.D

Lab Sample ID	Parameter	Spike	Result	Units	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB168097BS (Column 1)	DICAMBA	166.6	169	ug/Kg	101				72	129	
	DICHLORPROP	166.6	167	ug/Kg	100				77	135	
	2,4-D	166.6	168	ug/Kg	101				65	144	
	2,4,5-TP(Silvex)	166.6	171	ug/Kg	103				74	146	
	2,4,5-T	166.6	172	ug/Kg	103				77	134	
	2,4-DB	166.6	178	ug/Kg	107				72	122	
	Dinoseb	166.6	169	ug/Kg	101				74	132	
PB168097BS (Column 2)	DICAMBA	166.6	159	ug/Kg	95				72	129	
	DICHLORPROP	166.6	157	ug/Kg	94				77	135	
	2,4-D	166.6	161	ug/Kg	97				65	144	
	2,4,5-TP(Silvex)	166.6	164	ug/Kg	98				74	146	
	2,4,5-T	166.6	163	ug/Kg	98				77	134	
	2,4-DB	166.6	140	ug/Kg	84				72	122	
	Dinoseb	166.6	160	ug/Kg	96				74	132	

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4C

PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB168097BL

Lab Name: CHEMTECH Contract: CAMP02

Lab Code: CHEM Case No.: Q2074 SAS No.: Q2074 SDG NO.: Q2074

Lab Sample ID: PB168097BL Lab File ID: PS030315.D

Matrix: (soil/water) Solid Extraction: (Type) SOXH

Sulfur Cleanup: (Y/N) N Date Extracted: 05/21/2025

Date Analyzed (1): 05/21/2025 Date Analyzed (2): 05/21/2025

Time Analyzed (1): 16:32 Time Analyzed (2): 16:32

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
PB168097BS	PB168097BS	PS030316.D	05/21/2025	05/21/2025
L1-WC-7MS	Q2071-01MS	PS030326.D	05/21/2025	05/21/2025
L1-WC-7MSD	Q2071-01MSD	PS030327.D	05/21/2025	05/21/2025
TP-12	Q2074-01	PS030360.D	05/22/2025	05/22/2025
TP-7	Q2074-02	PS030361.D	05/22/2025	05/22/2025
TP-15	Q2074-03	PS030362.D	05/22/2025	05/22/2025
TP-20	Q2074-04	PS030363.D	05/22/2025	05/22/2025
TP-38	Q2074-05	PS030364.D	05/22/2025	05/22/2025
TP-19	Q2074-06	PS030365.D	05/22/2025	05/22/2025
TP-40	Q2074-07	PS030366.D	05/22/2025	05/22/2025
TP-18	Q2074-08	PS030367.D	05/23/2025	05/23/2025

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:	PB168097BL	SDG No.:	Q2074
Lab Sample ID:	PB168097BL	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
PS030315.D	1	05/21/25 08:30	05/21/25 16:32	PB168097

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	417		10 - 141	83%	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.:	Q2074
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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LOD = Limit of Detection
E = Value Exceeds Calibration Range
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Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	CDM Smith	Date Collected:	05/21/25
Project:	South River WM Replacement	Date Received:	05/21/25
Client Sample ID:	PIBLK-PS030313.D	SDG No.:	Q2074
Lab Sample ID:	I.BLK-PS030313.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
PS030313.D	1		05/21/25	ps052125

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	492		39 - 175	98%	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:	05/21/25
Project:	South River WM Replacement	Date Received:	05/21/25
Client Sample ID:	PIBLK-PS030323.D	SDG No.:	Q2074
Lab Sample ID:	I.BLK-PS030323.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
PS030323.D	1		05/21/25	ps052125

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	497		39 - 175	99%	SPK: 500

Comments:

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LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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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-PS030333.D	SDG No.:	Q2074
Lab Sample ID:	I.BLK-PS030333.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
PS030333.D	1		05/22/25	ps052125

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	501		39 - 175	100%	SPK: 500

Comments:

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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:	05/22/25
Project:	South River WM Replacement	Date Received:	05/22/25
Client Sample ID:	PIBLK-PS030358.D	SDG No.:	Q2074
Lab Sample ID:	I.BLK-PS030358.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
PS030358.D	1		05/22/25	PS052225

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	513		39 - 175	103%	SPK: 500

Comments:

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M = MS/MSD acceptance criteria did not meet requirements

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B = Analyte Found in Associated Method Blank
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() = 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-PS030368.D	SDG No.:	Q2074
Lab Sample ID:	I.BLK-PS030368.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
PS030368.D	1		05/23/25	PS052225

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	514		39 - 175	103%	SPK: 500

Comments:

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Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	PB168097BS	SDG No.:	Q2074
Lab Sample ID:	PB168097BS	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
PS030316.D	1	05/21/25 08:30	05/21/25 16:56	PB168097

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
1918-00-9	DICAMBA	169		7.70	67.0	ug/Kg
120-36-5	DICHLORPROP	167		12.8	67.0	ug/Kg
94-75-7	2,4-D	168		9.00	67.0	ug/Kg
93-72-1	2,4,5-TP (Silvex)	171		9.10	67.0	ug/Kg
93-76-5	2,4,5-T	172		8.70	67.0	ug/Kg
94-82-6	2,4-DB	178		24.2	67.0	ug/Kg
88-85-7	DINOSEB	169		10.8	67.0	ug/Kg
SURROGATES						
19719-28-9	2,4-DCAA	535		10 - 141	107%	SPK: 500

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() = Laboratory InHouse Limit

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Report of Analysis

Client:	CDM Smith	Date Collected:	05/16/25
Project:	South River WM Replacement	Date Received:	05/16/25
Client Sample ID:	L1-WC-7MS	SDG No.:	Q2074
Lab Sample ID:	Q2071-01MS	Matrix:	SOIL
Analytical Method:	8151A	% Solid:	86.6 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
PS030326.D	1	05/21/25 08:30	05/21/25 22:09	PB168097

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
1918-00-9	DICAMBA	150		8.90	77.3	ug/Kg
120-36-5	DICHLORPROP	164		14.8	77.3	ug/Kg
94-75-7	2,4-D	188		10.4	77.3	ug/Kg
93-72-1	2,4,5-TP (Silvex)	165		10.5	77.3	ug/Kg
93-76-5	2,4,5-T	158		10.0	77.3	ug/Kg
94-82-6	2,4-DB	198	P	27.9	77.3	ug/Kg
88-85-7	DINOSEB	16.4	JP	12.5	77.3	ug/Kg
SURROGATES						
19719-28-9	2,4-DCAA	517		10 - 141	103%	SPK: 500

Comments:

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LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Fax : 908 789 8922

Report of Analysis

Client:	CDM Smith	Date Collected:	05/16/25
Project:	South River WM Replacement	Date Received:	05/16/25
Client Sample ID:	L1-WC-7MSD	SDG No.:	Q2074
Lab Sample ID:	Q2071-01MSD	Matrix:	SOIL
Analytical Method:	8151A	% Solid:	86.6 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
PS030327.D	1	05/21/25 08:30	05/21/25 22:33	PB168097

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
1918-00-9	DICAMBA	151		8.90	77.3	ug/Kg
120-36-5	DICHLORPROP	165		14.8	77.3	ug/Kg
94-75-7	2,4-D	189		10.4	77.3	ug/Kg
93-72-1	2,4,5-TP (Silvex)	167		10.5	77.3	ug/Kg
93-76-5	2,4,5-T	160		10.0	77.3	ug/Kg
94-82-6	2,4-DB	198		27.9	77.3	ug/Kg
88-85-7	DINOSEB	15.8	J	12.5	77.3	ug/Kg
SURROGATES						
19719-28-9	2,4-DCAA	518		10 - 141	104%	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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Fax : 908 789 8922

RETENTION TIMES OF INITIAL CALIBRATION

Contract: CAMP02

Lab Code: CHEM **Case No.:** Q2074 **SAS No.:** Q2074 **SDG NO.:** Q2074

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.:** Q2074 **SAS No.:** Q2074 **SDG NO.:** Q2074

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.:** Q2074 **SAS No.:** Q2074 **SDG NO.:** Q2074

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.:** Q2074 **SAS No.:** Q2074 **SDG NO.:** Q2074

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.:** Q2074 **SAS No.:** Q2074 **SDG NO.:** Q2074

Continuing Calib Date: 05/21/2025 **Initial Calibration Date(s):** 05/12/2025 05/12/2025

Continuing Calib Time: 15:25 **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	7.11	7.11	7.01	7.21	0.00
2,4-DCAA	6.93	6.93	6.83	7.03	0.00
DICHLORPROP	7.79	7.79	7.69	7.89	0.00
2,4-D	8.01	8.01	7.91	8.11	0.00
2,4,5-TP(Silvex)	8.85	8.85	8.75	8.95	0.00
2,4,5-T	9.13	9.13	9.03	9.23	0.00
2,4-DB	9.69	9.69	9.59	9.79	0.00
Dinoseb	10.85	10.85	10.75	10.95	0.00

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CALIBRATION VERIFICATION SUMMARY

Contract: CAMP02

Lab Code: CHEM **Case No.:** Q2074 **SAS No.:** Q2074 **SDG NO.:** Q2074

Continuing Calib Date: 05/21/2025 **Initial Calibration Date(s):** 05/12/2025 05/12/2025

Continuing Calib Time: 15:25 **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.:** Q2074 **SAS No.:** Q2074 **SDG NO.:** Q2074

GC Column: RTX-CLP **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 05/12/2025 05/12/2025

Client Sample No.: CCAL01 **Date Analyzed:** 05/21/2025

Lab Sample No.: HSTDCCC750 **Data File :** PS030314.D **Time Analyzed:** 15:25

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-T	9.129	9.033	9.233	712.280	712.500	0.0
2,4,5-TP(Silvex)	8.847	8.750	8.950	712.570	712.500	0.0
2,4-D	8.006	7.910	8.110	697.640	705.000	-1.0
2,4-DB	9.687	9.589	9.789	755.280	712.500	6.0
2,4-DCAA	6.929	6.834	7.034	726.170	750.000	-3.2
DICAMBA	7.106	7.010	7.210	703.230	705.000	-0.3
DICHLORPROP	7.786	7.689	7.889	684.540	705.000	-2.9
Dinoseb	10.848	10.751	10.951	695.150	705.000	-1.4

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CALIBRATION VERIFICATION SUMMARY

Contract: CAMP02

Lab Code: CHEM **Case No.:** Q2074 **SAS No.:** Q2074 **SDG NO.:** Q2074

GC Column: RTX-CLP2 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 05/12/2025 05/12/2025

Client Sample No.: CCAL01 **Date Analyzed:** 05/21/2025

Lab Sample No.: HSTDCCC750 **Data File :** PS030314.D **Time Analyzed:** 15:25

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-T	9.913	9.826	10.026	684.310	712.500	-4.0
2,4,5-TP(Silvex)	9.509	9.423	9.623	690.980	712.500	-3.0
2,4-D	8.632	8.544	8.744	672.740	705.000	-4.6
2,4-DB	10.471	10.385	10.585	624.030	712.500	-12.4
2,4-DCAA	7.442	7.354	7.554	692.280	750.000	-7.7
DICAMBA	7.627	7.539	7.739	678.490	705.000	-3.8
DICHLORPROP	8.319	8.232	8.432	652.460	705.000	-7.5
Dinoseb	10.844	10.758	10.958	672.210	705.000	-4.7

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CALIBRATION VERIFICATION SUMMARY

Contract: CAMP02

Lab Code: CHEM **Case No.:** Q2074 **SAS No.:** Q2074 **SDG NO.:** Q2074

Continuing Calib Date: 05/21/2025 **Initial Calibration Date(s):** 05/12/2025 05/12/2025

Continuing Calib Time: 20:32 **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	7.11	7.11	7.01	7.21	0.00
2,4-DCAA	6.93	6.93	6.83	7.03	0.00
DICHLORPROP	7.79	7.79	7.69	7.89	0.01
2,4-D	8.01	8.01	7.91	8.11	0.00
2,4,5-TP(Silvex)	8.85	8.85	8.75	8.95	0.00
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.:** Q2074 **SAS No.:** Q2074 **SDG NO.:** Q2074

Continuing Calib Date: 05/21/2025 **Initial Calibration Date(s):** 05/12/2025 05/12/2025

Continuing Calib Time: 20:32 **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	7.45	7.45	7.35	7.55	0.00
DICHLORPROP	8.32	8.33	8.23	8.43	0.01
2,4-D	8.64	8.64	8.54	8.74	0.00
2,4,5-TP(Silvex)	9.51	9.52	9.42	9.62	0.01
2,4,5-T	9.92	9.93	9.83	10.03	0.01
2,4-DB	10.47	10.49	10.39	10.59	0.02
Dinoseb	10.85	10.86	10.76	10.96	0.01

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CALIBRATION VERIFICATION SUMMARY

Contract: CAMP02

Lab Code: CHEM **Case No.:** Q2074 **SAS No.:** Q2074 **SDG NO.:** Q2074

GC Column: RTX-CLP **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 05/12/2025 05/12/2025

Client Sample No.: CCAL02 **Date Analyzed:** 05/21/2025

Lab Sample No.: HSTDCCC750 **Data File :** PS030324.D **Time Analyzed:** 20:32

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-T	9.127	9.033	9.233	711.830	712.500	-0.1
2,4,5-TP(Silvex)	8.845	8.750	8.950	708.190	712.500	-0.6
2,4-D	8.005	7.910	8.110	695.040	705.000	-1.4
2,4-DB	9.684	9.589	9.789	759.510	712.500	6.6
2,4-DCAA	6.929	6.834	7.034	728.350	750.000	-2.9
DICAMBA	7.105	7.010	7.210	701.780	705.000	-0.5
DICHLORPROP	7.785	7.689	7.889	686.830	705.000	-2.6
Dinoseb	10.844	10.751	10.951	690.500	705.000	-2.1

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CALIBRATION VERIFICATION SUMMARY

Contract: CAMP02

Lab Code: CHEM **Case No.:** Q2074 **SAS No.:** Q2074 **SDG NO.:** Q2074

GC Column: RTX-CLP2 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 05/12/2025 05/12/2025

Client Sample No.: CCAL02 **Date Analyzed:** 05/21/2025

Lab Sample No.: HSTDCCC750 **Data File :** PS030324.D **Time Analyzed:** 20:32

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-T	9.918	9.826	10.026	697.960	712.500	-2.0
2,4,5-TP(Silvex)	9.513	9.423	9.623	702.560	712.500	-1.4
2,4-D	8.636	8.544	8.744	688.830	705.000	-2.3
2,4-DB	10.474	10.385	10.585	634.390	712.500	-11.0
2,4-DCAA	7.447	7.354	7.554	713.880	750.000	-4.8
DICAMBA	7.633	7.539	7.739	690.690	705.000	-2.0
DICHLORPROP	8.324	8.232	8.432	666.080	705.000	-5.5
Dinoseb	10.848	10.758	10.958	683.340	705.000	-3.1

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CALIBRATION VERIFICATION SUMMARY

Contract: CAMP02

Lab Code: CHEM **Case No.:** Q2074 **SAS No.:** Q2074 **SDG NO.:** Q2074

Continuing Calib Date: 05/22/2025 **Initial Calibration Date(s):** 05/12/2025 05/12/2025

Continuing Calib Time: 01:45 **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	7.11	7.11	7.01	7.21	0.00
2,4-DCAA	6.93	6.93	6.83	7.03	0.00
DICHLORPROP	7.79	7.79	7.69	7.89	0.00
2,4-D	8.01	8.01	7.91	8.11	0.00
2,4,5-TP(Silvex)	8.85	8.85	8.75	8.95	0.00
2,4,5-T	9.13	9.13	9.03	9.23	0.00
2,4-DB	9.69	9.69	9.59	9.79	0.00
Dinoseb	10.85	10.85	10.75	10.95	0.00

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CALIBRATION VERIFICATION SUMMARY

Contract: CAMP02

Lab Code: CHEM **Case No.:** Q2074 **SAS No.:** Q2074 **SDG NO.:** Q2074

Continuing Calib Date: 05/22/2025 **Initial Calibration Date(s):** 05/12/2025 05/12/2025

Continuing Calib Time: 01:45 **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	7.45	7.45	7.35	7.55	0.00
DICHLORPROP	8.33	8.33	8.23	8.43	0.01
2,4-D	8.64	8.64	8.54	8.74	0.00
2,4,5-TP(Silvex)	9.51	9.52	9.42	9.62	0.01
2,4,5-T	9.92	9.93	9.83	10.03	0.01
2,4-DB	10.48	10.49	10.39	10.59	0.01
Dinoseb	10.85	10.86	10.76	10.96	0.01

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CALIBRATION VERIFICATION SUMMARY

Contract: CAMP02

Lab Code: CHEM **Case No.:** Q2074 **SAS No.:** Q2074 **SDG NO.:** Q2074

GC Column: RTX-CLP **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 05/12/2025 05/12/2025

Client Sample No.: CCAL03 **Date Analyzed:** 05/22/2025

Lab Sample No.: HSTDCCC750 **Data File :** PS030334.D **Time Analyzed:** 01:45

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-T	9.128	9.033	9.233	704.880	712.500	-1.1
2,4,5-TP(Silvex)	8.846	8.750	8.950	700.620	712.500	-1.7
2,4-D	8.005	7.910	8.110	686.810	705.000	-2.6
2,4-DB	9.685	9.589	9.789	746.410	712.500	4.8
2,4-DCAA	6.930	6.834	7.034	721.880	750.000	-3.7
DICAMBA	7.106	7.010	7.210	694.030	705.000	-1.6
DICHLORPROP	7.786	7.689	7.889	681.520	705.000	-3.3
Dinoseb	10.845	10.751	10.951	686.410	705.000	-2.6

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CALIBRATION VERIFICATION SUMMARY

Contract: CAMP02

Lab Code: CHEM **Case No.:** Q2074 **SAS No.:** Q2074 **SDG NO.:** Q2074

GC Column: RTX-CLP2 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 05/12/2025 05/12/2025

Client Sample No.: CCAL03 **Date Analyzed:** 05/22/2025

Lab Sample No.: HSTDCCC750 **Data File :** PS030334.D **Time Analyzed:** 01:45

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-T	9.918	9.826	10.026	690.390	712.500	-3.1
2,4,5-TP(Silvex)	9.514	9.423	9.623	696.770	712.500	-2.2
2,4-D	8.636	8.544	8.744	681.090	705.000	-3.4
2,4-DB	10.475	10.385	10.585	633.280	712.500	-11.1
2,4-DCAA	7.448	7.354	7.554	710.320	750.000	-5.3
DICAMBA	7.633	7.539	7.739	685.810	705.000	-2.7
DICHLORPROP	8.325	8.232	8.432	662.290	705.000	-6.1
Dinoseb	10.849	10.758	10.958	676.960	705.000	-4.0

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CALIBRATION VERIFICATION SUMMARY

Contract: CAMP02

Lab Code: CHEM **Case No.:** Q2074 **SAS No.:** Q2074 **SDG NO.:** Q2074

Continuing Calib Date: 05/22/2025 **Initial Calibration Date(s):** 05/12/2025 05/12/2025

Continuing Calib Time: 20:29 **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	6.93	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.:** Q2074 **SAS No.:** Q2074 **SDG NO.:** Q2074

Continuing Calib Date: 05/22/2025 **Initial Calibration Date(s):** 05/12/2025 05/12/2025

Continuing Calib Time: 20:29 **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	7.45	7.45	7.35	7.55	0.00
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	9.92	9.93	9.83	10.03	0.02
2,4-DB	10.47	10.49	10.39	10.59	0.02
Dinoseb	10.85	10.86	10.76	10.96	0.01

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CALIBRATION VERIFICATION SUMMARY

Contract: CAMP02

Lab Code: CHEM **Case No.:** Q2074 **SAS No.:** Q2074 **SDG NO.:** Q2074

GC Column: RTX-CLP **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 05/12/2025 05/12/2025

Client Sample No.: CCAL04 **Date Analyzed:** 05/22/2025

Lab Sample No.: HSTDCCC750 **Data File :** PS030359.D **Time Analyzed:** 20:29

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-T	9.126	9.033	9.233	725.300	712.500	1.8
2,4,5-TP(Silvex)	8.844	8.750	8.950	719.260	712.500	0.9
2,4-D	8.004	7.910	8.110	706.710	705.000	0.2
2,4-DB	9.683	9.589	9.789	763.910	712.500	7.2
2,4-DCAA	6.929	6.834	7.034	749.220	750.000	-0.1
DICAMBA	7.104	7.010	7.210	713.660	705.000	1.2
DICHLORPROP	7.784	7.689	7.889	706.330	705.000	0.2
Dinoseb	10.843	10.751	10.951	700.210	705.000	-0.7

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CALIBRATION VERIFICATION SUMMARY

Contract: CAMP02

Lab Code: CHEM **Case No.:** Q2074 **SAS No.:** Q2074 **SDG NO.:** Q2074

GC Column: RTX-CLP2 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 05/12/2025 05/12/2025

Client Sample No.: CCAL04 **Date Analyzed:** 05/22/2025

Lab Sample No.: HSTDCCC750 **Data File :** PS030359.D **Time Analyzed:** 20:29

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-T	9.915	9.826	10.026	710.130	712.500	-0.3
2,4,5-TP(Silvex)	9.511	9.423	9.623	717.350	712.500	0.7
2,4-D	8.634	8.544	8.744	701.130	705.000	-0.5
2,4-DB	10.472	10.385	10.585	621.450	712.500	-12.8
2,4-DCAA	7.446	7.354	7.554	730.330	750.000	-2.6
DICAMBA	7.631	7.539	7.739	704.850	705.000	0.0
DICHLORPROP	8.322	8.232	8.432	681.030	705.000	-3.4
Dinoseb	10.846	10.758	10.958	679.350	705.000	-3.6

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CALIBRATION VERIFICATION SUMMARY

Contract: CAMP02

Lab Code: CHEM **Case No.:** Q2074 **SAS No.:** Q2074 **SDG NO.:** Q2074

Continuing Calib Date: 05/23/2025 **Initial Calibration Date(s):** 05/12/2025 05/12/2025

Continuing Calib Time: 00:54 **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.:** Q2074 **SAS No.:** Q2074 **SDG NO.:** Q2074

Continuing Calib Date: 05/23/2025 **Initial Calibration Date(s):** 05/12/2025 05/12/2025

Continuing Calib Time: 00:54 **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	7.45	7.45	7.35	7.55	0.00
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	9.92	9.93	9.83	10.03	0.02
2,4-DB	10.47	10.49	10.39	10.59	0.02
Dinoseb	10.85	10.86	10.76	10.96	0.01

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CALIBRATION VERIFICATION SUMMARY

Contract: CAMP02

Lab Code: CHEM **Case No.:** Q2074 **SAS No.:** Q2074 **SDG NO.:** Q2074

GC Column: RTX-CLP **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 05/12/2025 05/12/2025

Client Sample No.: CCAL05 **Date Analyzed:** 05/23/2025

Lab Sample No.: HSTDCCC750 **Data File :** PS030369.D **Time Analyzed:** 00:54

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-T	9.126	9.033	9.233	734.260	712.500	3.1
2,4,5-TP(Silvex)	8.844	8.750	8.950	724.900	712.500	1.7
2,4-D	8.004	7.910	8.110	714.890	705.000	1.4
2,4-DB	9.683	9.589	9.789	778.330	712.500	9.2
2,4-DCAA	6.928	6.834	7.034	757.680	750.000	1.0
DICAMBA	7.104	7.010	7.210	721.180	705.000	2.3
DICHLORPROP	7.784	7.689	7.889	710.980	705.000	0.8
Dinoseb	10.843	10.751	10.951	706.700	705.000	0.2

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CALIBRATION VERIFICATION SUMMARY

Contract: CAMP02

Lab Code: CHEM **Case No.:** Q2074 **SAS No.:** Q2074 **SDG NO.:** Q2074

GC Column: RTX-CLP2 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 05/12/2025 05/12/2025

Client Sample No.: CCAL05 **Date Analyzed:** 05/23/2025

Lab Sample No.: HSTDCCC750 **Data File :** PS030369.D **Time Analyzed:** 00:54

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-T	9.915	9.826	10.026	724.630	712.500	1.7
2,4,5-TP(Silvex)	9.512	9.423	9.623	729.650	712.500	2.4
2,4-D	8.634	8.544	8.744	712.970	705.000	1.1
2,4-DB	10.473	10.385	10.585	623.400	712.500	-12.5
2,4-DCAA	7.446	7.354	7.554	738.500	750.000	-1.5
DICAMBA	7.631	7.539	7.739	716.590	705.000	1.6
DICHLORPROP	8.323	8.232	8.432	691.600	705.000	-1.9
Dinoseb	10.846	10.758	10.958	703.860	705.000	-0.2

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Analytical Sequence

Client: CDM Smith **SDG No.:** Q2074

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	05/21/2025	10:21	PS030313.D	6.93	0.00
HSTDCCC750	HSTDCCC750	05/21/2025	15:25	PS030314.D	6.93	0.00
PB168097BL	PB168097BL	05/21/2025	16:32	PS030315.D	6.93	0.00
PB168097BS	PB168097BS	05/21/2025	16:56	PS030316.D	6.93	0.00
I.BLK	I.BLK	05/21/2025	19:44	PS030323.D	6.93	0.00
HSTDCCC750	HSTDCCC750	05/21/2025	20:32	PS030324.D	6.93	0.00
L1-WC-7MS	Q2071-01MS	05/21/2025	22:09	PS030326.D	6.93	0.00
L1-WC-7MSD	Q2071-01MSD	05/21/2025	22:33	PS030327.D	6.93	0.00
I.BLK	I.BLK	05/22/2025	00:57	PS030333.D	6.93	0.00
HSTDCCC750	HSTDCCC750	05/22/2025	01:45	PS030334.D	6.93	0.00
I.BLK	I.BLK	05/22/2025	20:05	PS030358.D	6.93	0.00
HSTDCCC750	HSTDCCC750	05/22/2025	20:29	PS030359.D	6.93	0.00
TP-12	Q2074-01	05/22/2025	21:17	PS030360.D	6.93	0.00
TP-7	Q2074-02	05/22/2025	21:41	PS030361.D	6.93	0.00
TP-15	Q2074-03	05/22/2025	22:05	PS030362.D	6.93	0.00
TP-20	Q2074-04	05/22/2025	22:29	PS030363.D	6.93	0.00
TP-38	Q2074-05	05/22/2025	22:53	PS030364.D	6.93	0.00
TP-19	Q2074-06	05/22/2025	23:17	PS030365.D	6.93	0.00
TP-40	Q2074-07	05/22/2025	23:41	PS030366.D	6.93	0.00
TP-18	Q2074-08	05/23/2025	00:05	PS030367.D	6.93	0.00
I.BLK	I.BLK	05/23/2025	00:29	PS030368.D	6.93	0.00
HSTDCCC750	HSTDCCC750	05/23/2025	00:54	PS030369.D	6.93	0.00

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Analytical Sequence

Client: CDM Smith **SDG No.:** Q2074

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	05/21/2025	10:21	PS030313.D	7.45	0.00
HSTDCCC750	HSTDCCC750	05/21/2025	15:25	PS030314.D	7.44	0.00
PB168097BL	PB168097BL	05/21/2025	16:32	PS030315.D	7.44	0.00
PB168097BS	PB168097BS	05/21/2025	16:56	PS030316.D	7.45	0.00
I.BLK	I.BLK	05/21/2025	19:44	PS030323.D	7.45	0.00
HSTDCCC750	HSTDCCC750	05/21/2025	20:32	PS030324.D	7.45	0.00
L1-WC-7MS	Q2071-01MS	05/21/2025	22:09	PS030326.D	7.45	0.00
L1-WC-7MSD	Q2071-01MSD	05/21/2025	22:33	PS030327.D	7.45	0.00
I.BLK	I.BLK	05/22/2025	00:57	PS030333.D	7.45	0.00
HSTDCCC750	HSTDCCC750	05/22/2025	01:45	PS030334.D	7.45	0.00
I.BLK	I.BLK	05/22/2025	20:05	PS030358.D	7.45	0.00
HSTDCCC750	HSTDCCC750	05/22/2025	20:29	PS030359.D	7.45	0.00
TP-12	Q2074-01	05/22/2025	21:17	PS030360.D	7.45	0.00
TP-7	Q2074-02	05/22/2025	21:41	PS030361.D	7.45	0.00
TP-15	Q2074-03	05/22/2025	22:05	PS030362.D	7.44	0.00
TP-20	Q2074-04	05/22/2025	22:29	PS030363.D	7.44	0.00
TP-38	Q2074-05	05/22/2025	22:53	PS030364.D	7.45	0.00
TP-19	Q2074-06	05/22/2025	23:17	PS030365.D	7.45	0.00
TP-40	Q2074-07	05/22/2025	23:41	PS030366.D	7.45	0.00
TP-18	Q2074-08	05/23/2025	00:05	PS030367.D	7.45	0.00
I.BLK	I.BLK	05/23/2025	00:29	PS030368.D	7.45	0.00
HSTDCCC750	HSTDCCC750	05/23/2025	00:54	PS030369.D	7.45	0.00

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COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

L1-WC-7MS

Contract: CAMP02

Lab Code: CHEM **Case No.:** Q2074 **SAS No.:** Q2074 **SDG NO.:** Q2074

Lab Sample ID: Q2071-01MS **Date(s) Analyzed:** 05/21/2025 05/21/2025

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	7.79	7.74	7.84	164	4.4
	2	8.32	8.27	8.37	157	
2,4-D	1	8.00	7.95	8.05	188	7.2
	2	8.64	8.59	8.69	175	
2,4,5-TP(Silvex)	1	8.85	8.80	8.90	159	3.7
	2	9.51	9.46	9.56	165	
2,4,5-T	1	9.13	9.08	9.18	158	0.6
	2	9.92	9.87	9.97	157	
2,4-DB	1	9.69	9.64	9.74	198	38.6
	2	10.47	10.42	10.52	134	
Dinoseb	1	10.85	10.80	10.90	16.4	26.2
	2	10.84	10.79	10.89	12.6	
DICAMBA	1	7.11	7.06	7.16	150	0.7
	2	7.63	7.58	7.68	149	

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COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

L1-WC-7MSD

Contract: CAMP02

Lab Code: CHEM **Case No.:** Q2074 **SAS No.:** Q2074 **SDG NO.:** Q2074

Lab Sample ID: Q2071-01MSD **Date(s) Analyzed:** 05/21/2025 05/21/2025

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	7.79	7.74	7.84	165	5
	2	8.32	8.27	8.37	157	
2,4-D	1	8.01	7.96	8.06	189	7.1
	2	8.64	8.59	8.69	176	
2,4,5-TP(Silvex)	1	8.85	8.80	8.90	161	3.7
	2	9.51	9.46	9.56	167	
2,4,5-T	1	9.13	9.08	9.18	160	1.3
	2	9.92	9.87	9.97	158	
2,4-DB	1	9.69	9.64	9.74	198	18.2
	2	10.47	10.42	10.52	165	
DICAMBA	1	7.11	7.06	7.16	151	0.7
	2	7.63	7.58	7.68	150	

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COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

PB168097BS

Contract: CAMP02

Lab Code: CHEM **Case No.:** Q2074 **SAS No.:** Q2074 **SDG NO.:** Q2074

Lab Sample ID: PB168097BS **Date(s) Analyzed:** 05/21/2025 05/21/2025

Instrument ID (1): ECD_S **Instrument ID (2):** ECD_S

GC Column: (1): RTX-CLP **ID:** 0.32 (mm) **GC Column:(2):** RTX-CLP2 **ID:** 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%RPD
2,4,5-T	1	9.13	9.08	9.18	172	5.4
	2	9.92	9.87	9.97	163	
2,4,5-TP(Silvex)	1	8.85	8.80	8.90	171	4.2
	2	9.51	9.46	9.56	164	
2,4-D	1	8.01	7.96	8.06	168	4.3
	2	8.64	8.59	8.69	161	
2,4-DB	1	9.69	9.64	9.74	178	23.9
	2	10.47	10.42	10.52	140	
DICHLORPROP	1	7.79	7.74	7.84	167	6.2
	2	8.32	8.27	8.37	157	
Dinoseb	1	10.85	10.80	10.90	169	5.5
	2	10.85	10.80	10.90	160	
DICAMBA	1	7.11	7.06	7.16	169	6.1
	2	7.63	7.58	7.68	159	

SAMPLE RAW DATA

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS052225\
Data File : PS030360.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 May 2025 21:17
Operator : AR\AJ
Sample : Q2074-01
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
TP-12

Manual Integrations APPROVED

Reviewed By :Abdul Mirza 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 22:44:46 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	903.3E6	232.0E6	317.206	289.971m
	Target Compounds						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

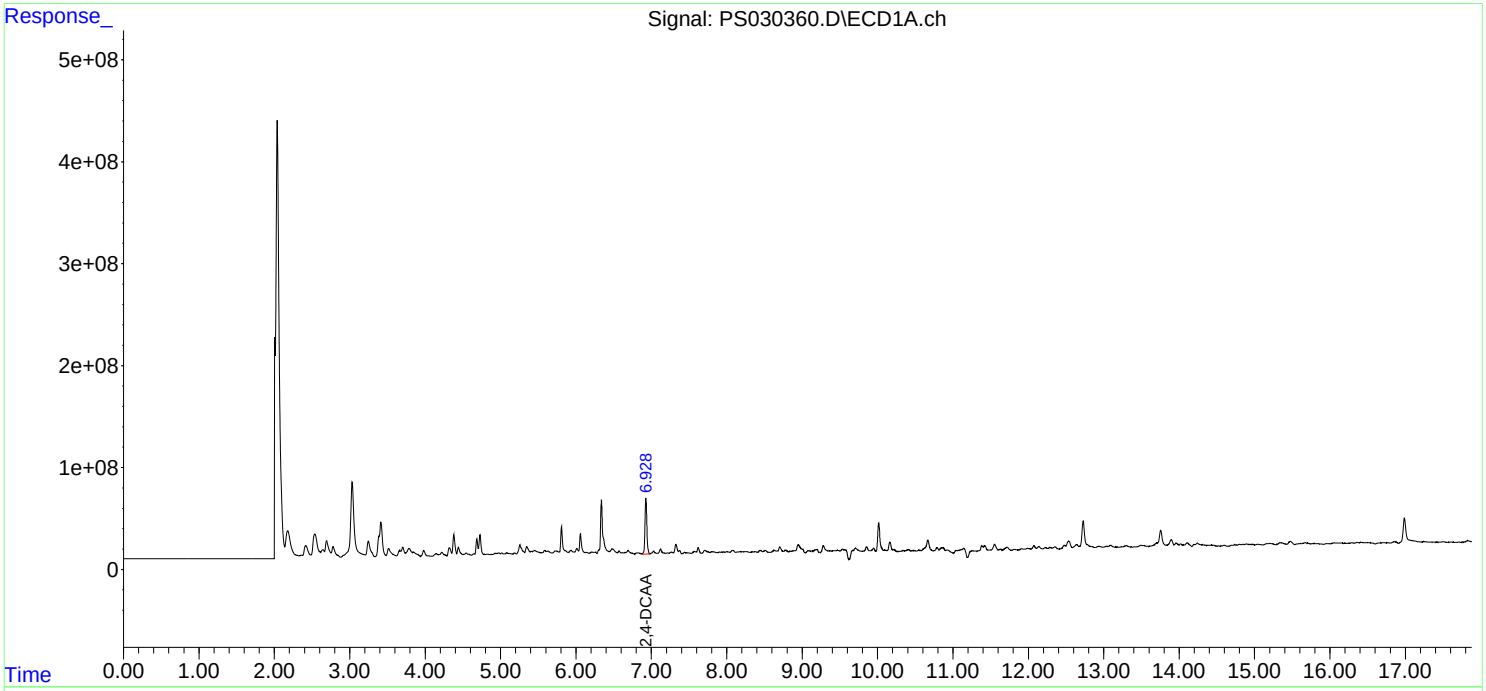
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS052225\
Data File : PS030360.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 May 2025 21:17
Operator : AR\AJ
Sample : Q2074-01
Misc :
ALS Vial : 22 Sample Multiplier: 1

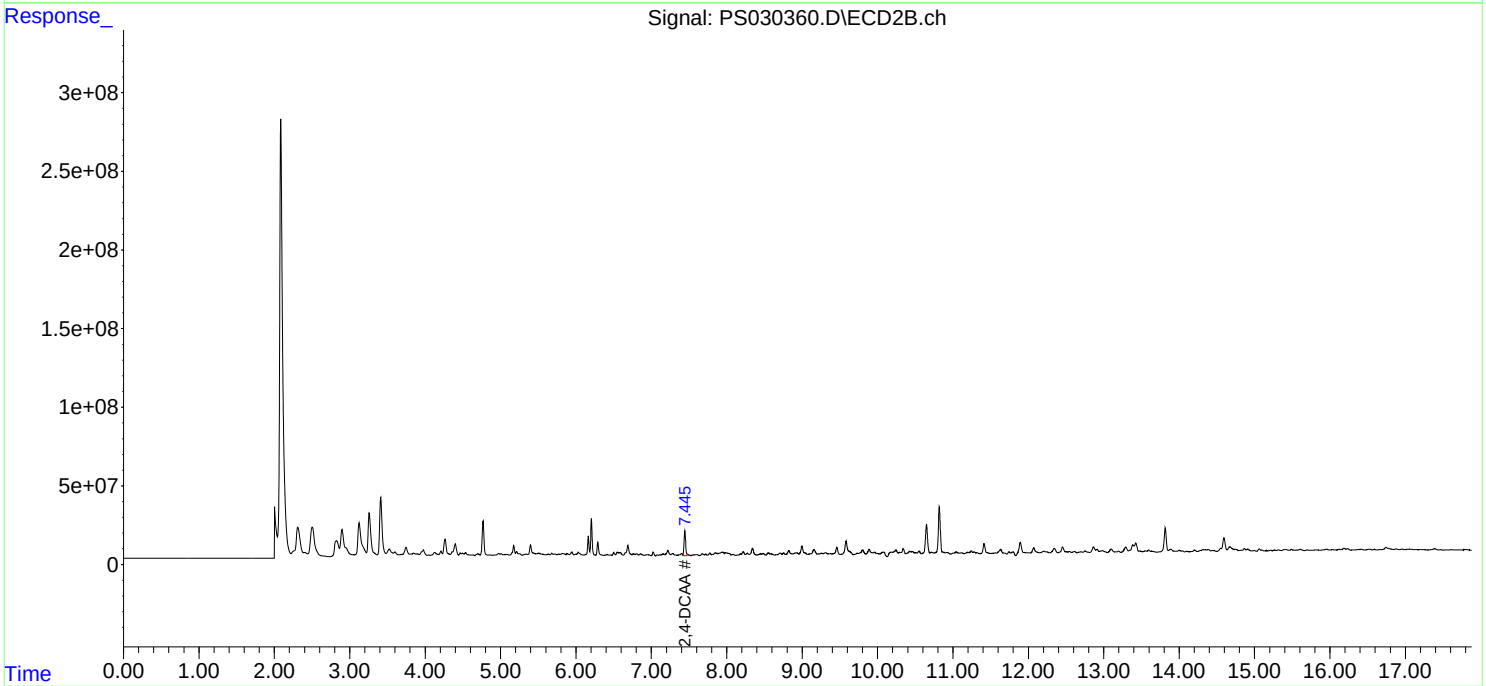
Instrument :
ECD_S
ClientSampleId :
TP-12

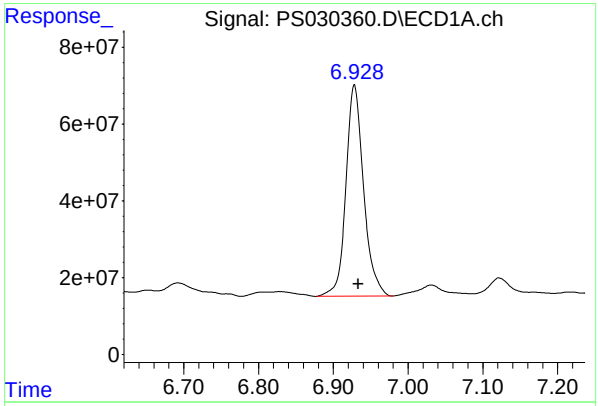
Manual Integrations APPROVED
Reviewed By :Abdul Mirza 05/23/2025
Supervised By :mohammad ahmed 05/24/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 22 22:44:46 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







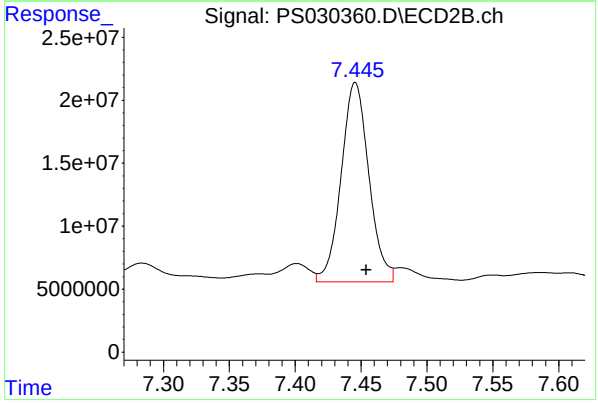
#4 2,4-DCAA

R.T.: 6.928 min
Delta R.T.: -0.005 mi
Response: 903342658
Conc: 317.21 ng/m

Instrument :
ECD_S
ClientSampleId :
TP-12

Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 05/23/2025
Supervised By :mohammad ahmed 05/24/2025



#4 2,4-DCAA

R.T.: 7.445 min
Delta R.T.: -0.009 min
Response: 232036211
Conc: 289.97 ng/ml m

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS052225\
Data File : PS030361.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 May 2025 21:41
Operator : AR\AJ
Sample : Q2074-02
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
TP-7

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 22 22:45:08 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	7.446	920.5E6	216.6E6	323.216	270.681
	Target Compounds						

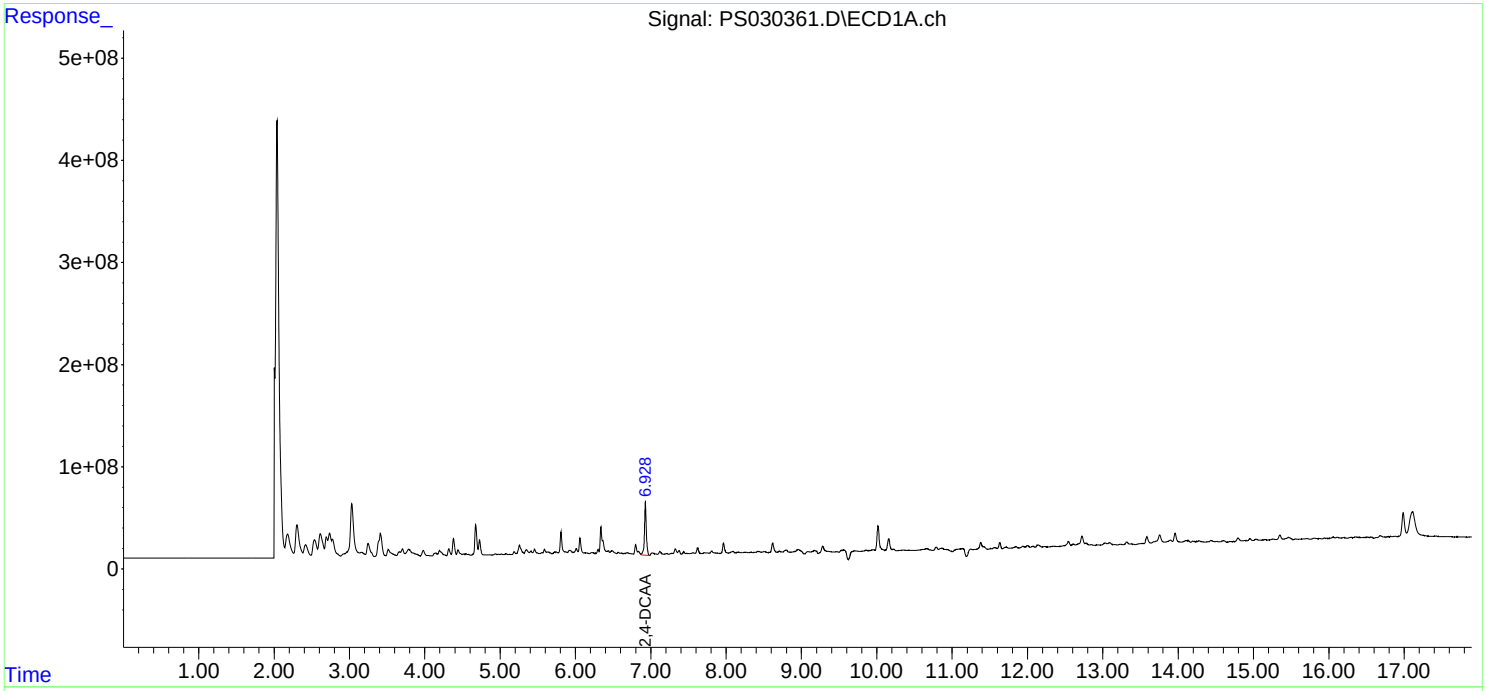
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

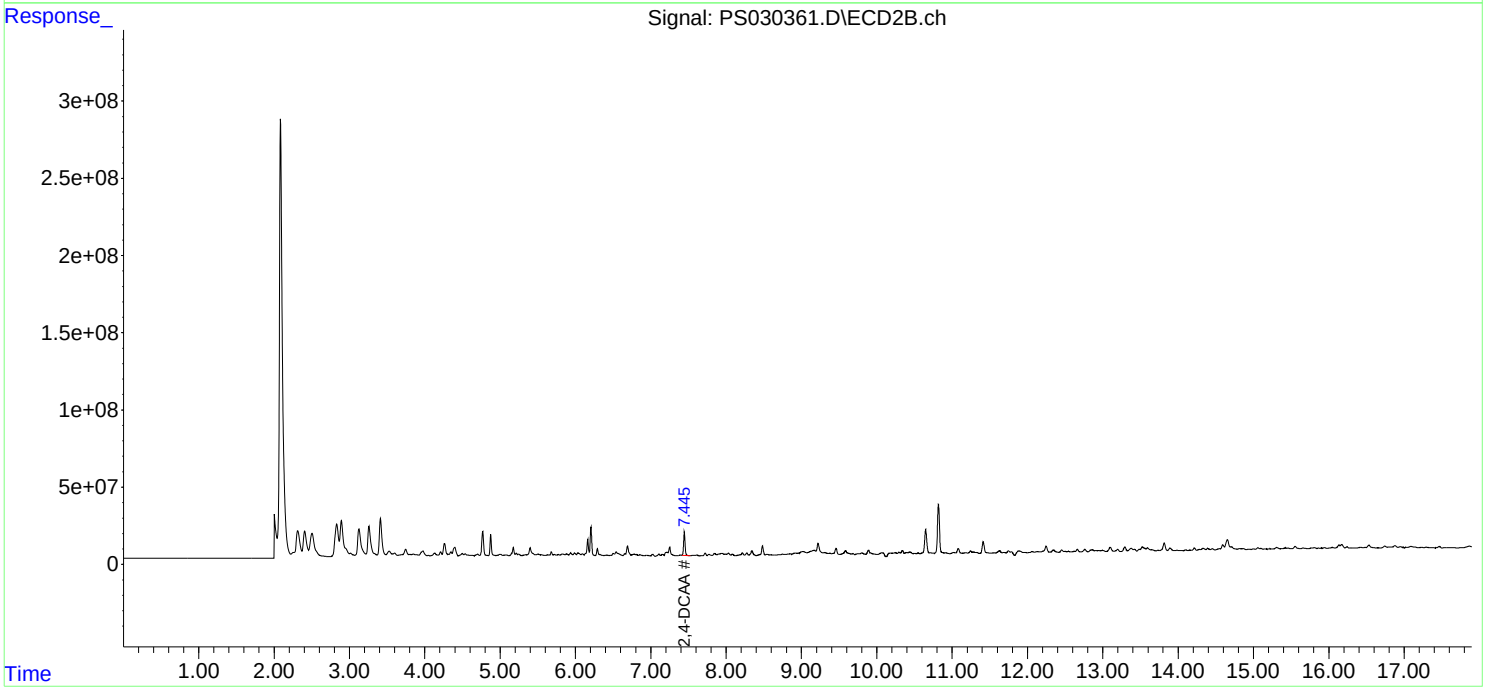
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS052225\
Data File : PS030361.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 May 2025 21:41
Operator : AR\AJ
Sample : Q2074-02
Misc :
ALS Vial : 23 Sample Multiplier: 1

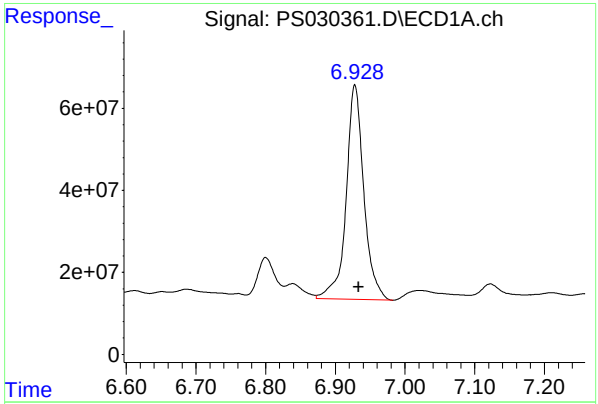
Instrument :
ECD_S
ClientSampleId :
TP-7

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 22 22:45:08 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



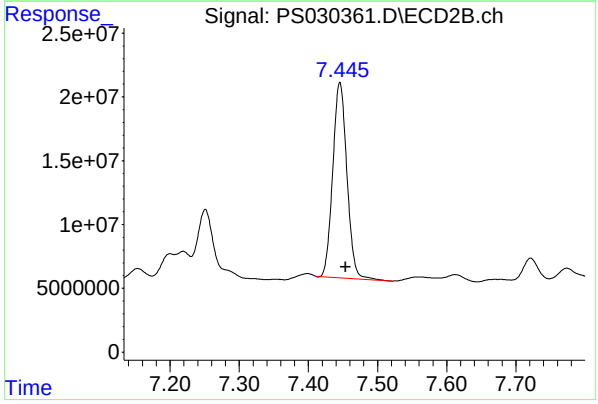




#4 2,4-DCAA

R.T.: 6.928 min
Delta R.T.: -0.005 min
Response: 920456079
Conc: 323.22 ng/ml

Instrument :
ECD_S
ClientSampleId :
TP-7



#4 2,4-DCAA

R.T.: 7.446 min
Delta R.T.: -0.008 min
Response: 216599692
Conc: 270.68 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS052225\
Data File : PS030362.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 May 2025 22:05
Operator : AR\AJ
Sample : Q2074-03
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
TP-15

Manual Integrations APPROVED
Reviewed By :Abdul Mirza 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 23 02:01:42 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	7.444	954.7E6	253.4E6	335.231	316.716m
	Target Compounds						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

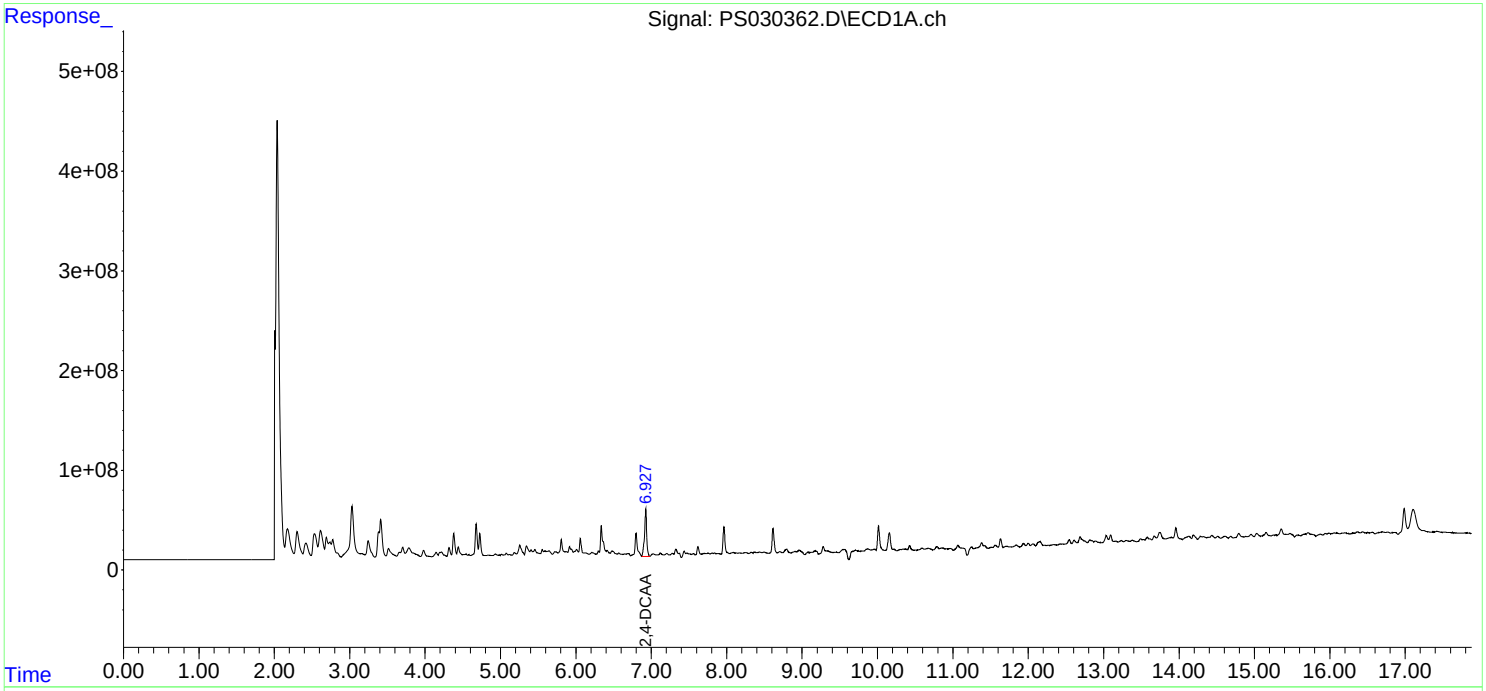
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS052225\
Data File : PS030362.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 May 2025 22:05
Operator : AR\AJ
Sample : Q2074-03
Misc :
ALS Vial : 24 Sample Multiplier: 1

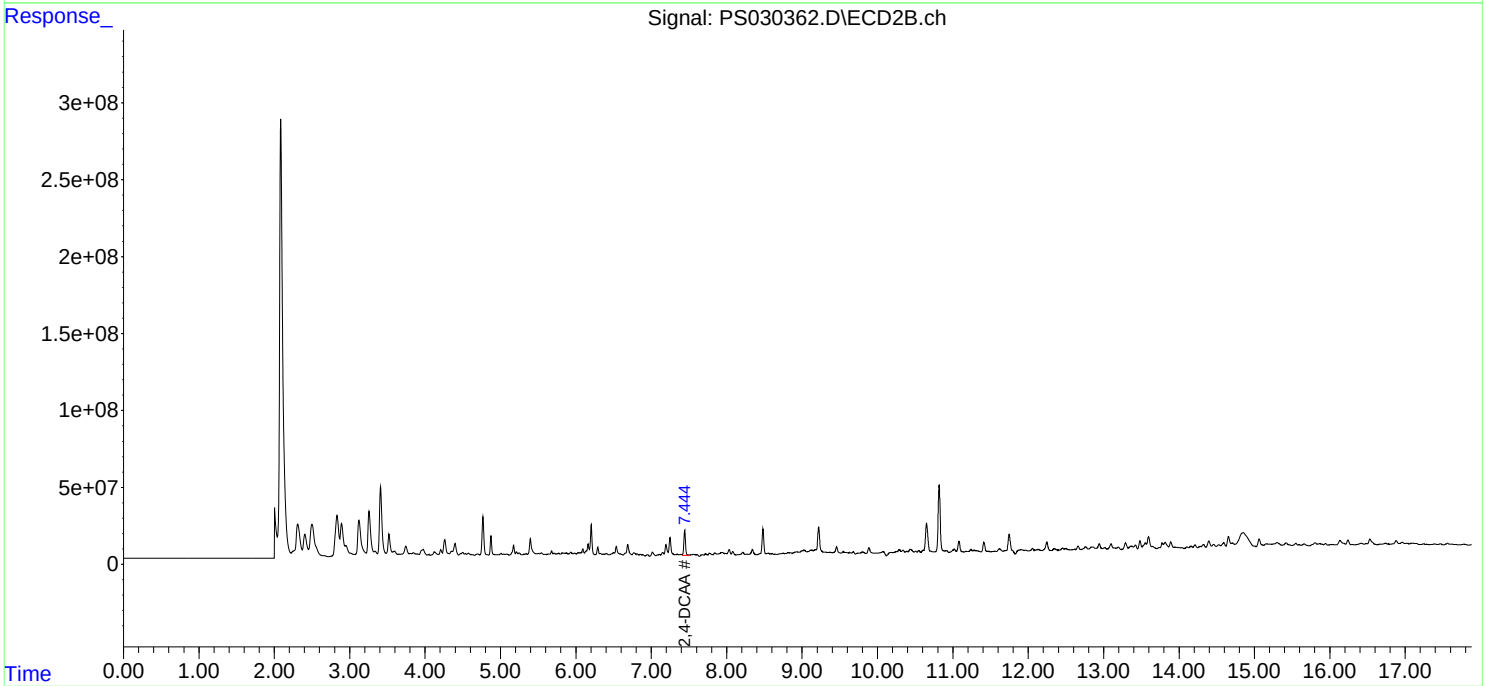
Instrument :
ECD_S
ClientSampleId :
TP-15

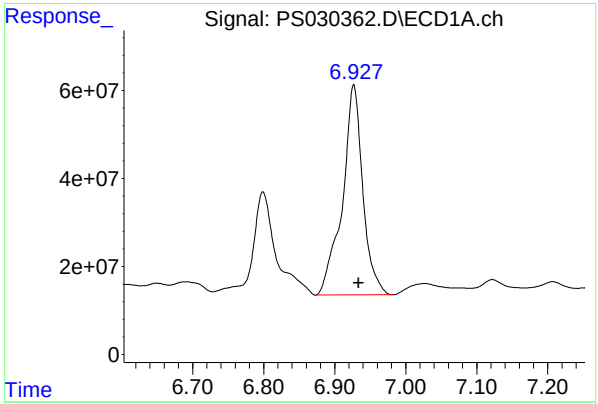
Manual Integrations APPROVED
Reviewed By :Abdul Mirza 05/23/2025
Supervised By :mohammad ahmed 05/24/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 23 02:01:42 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







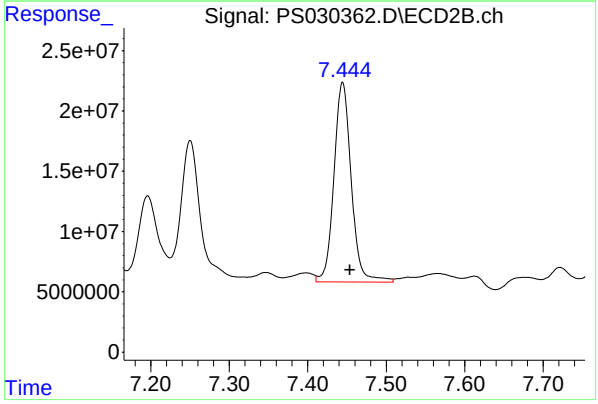
#4 2,4-DCAA

R.T.: 6.927 min
Delta R.T.: -0.007 mi
Response: 954674616
Conc: 335.23 ng/m

Instrument :
ECD_S
ClientSampleId :
TP-15

Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 05/23/2025
Supervised By :mohammad ahmed 05/24/2025



#4 2,4-DCAA

R.T.: 7.444 min
Delta R.T.: -0.010 min
Response: 253437148
Conc: 316.72 ng/ml m

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS052225\
Data File : PS030363.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 May 2025 22:29
Operator : AR\AJ
Sample : Q2074-04
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
TP-20

Manual Integrations APPROVED
Reviewed By :Abdul Mirza 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 23 02:01:52 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	982.2E6	244.0E6	344.884	304.894m
	Target Compounds						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

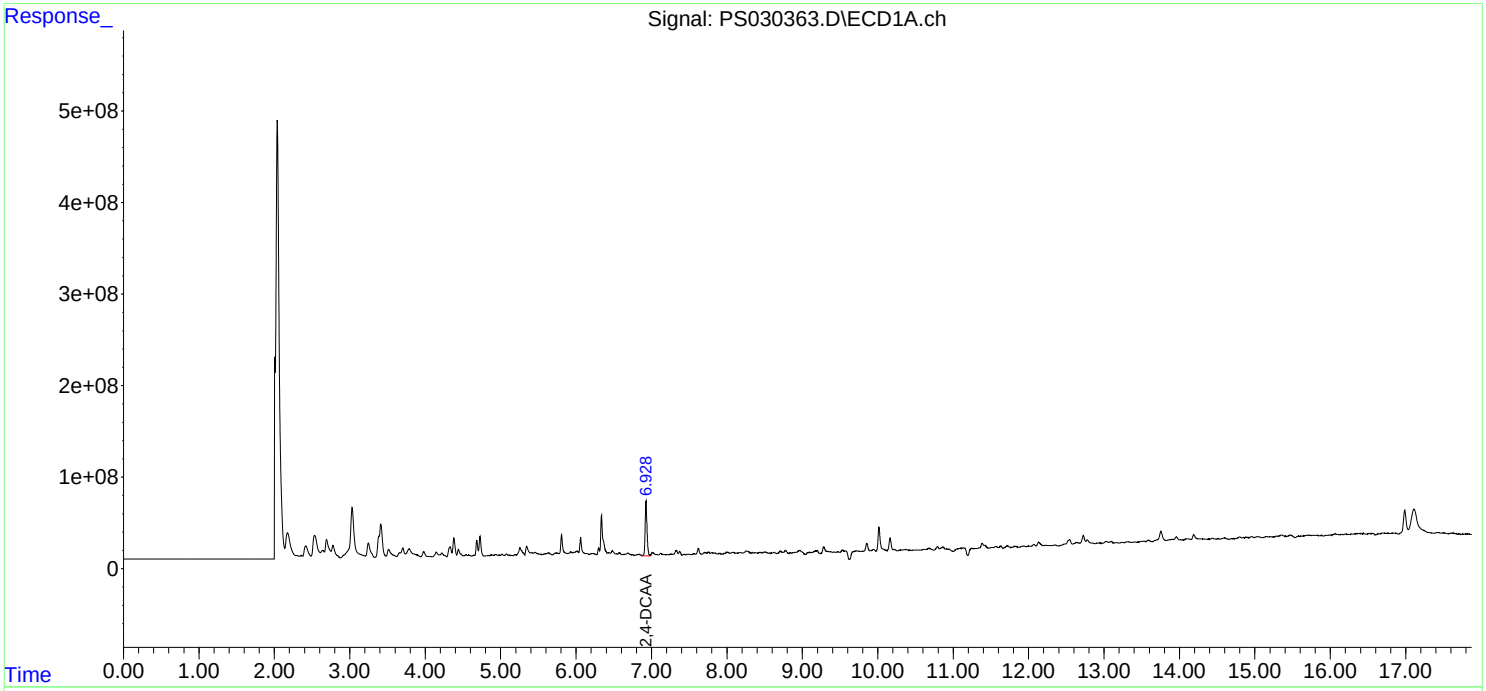
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS052225\
Data File : PS030363.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 May 2025 22:29
Operator : AR\AJ
Sample : Q2074-04
Misc :
ALS Vial : 25 Sample Multiplier: 1

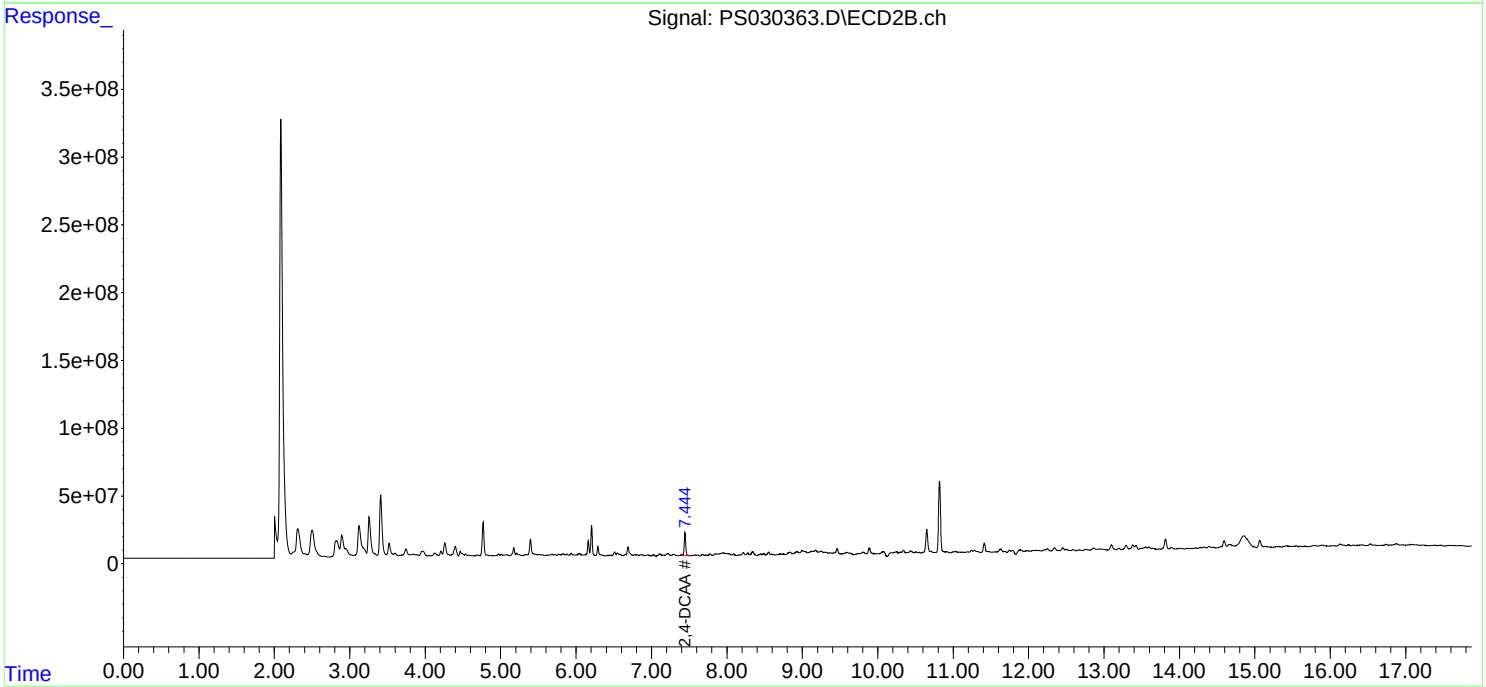
Instrument :
ECD_S
ClientSampleId :
TP-20

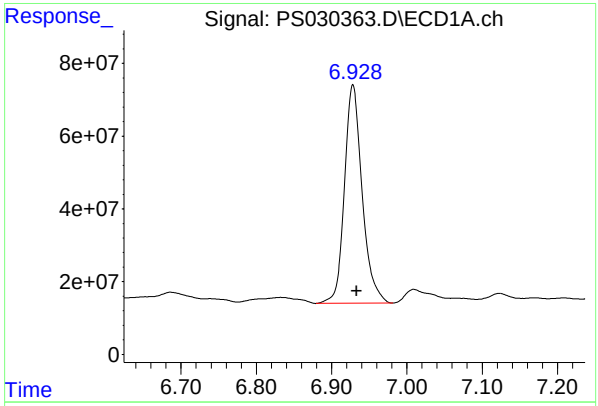
Manual Integrations APPROVED
Reviewed By :Abdul Mirza 05/23/2025
Supervised By :mohammad ahmed 05/24/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 23 02:01:52 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







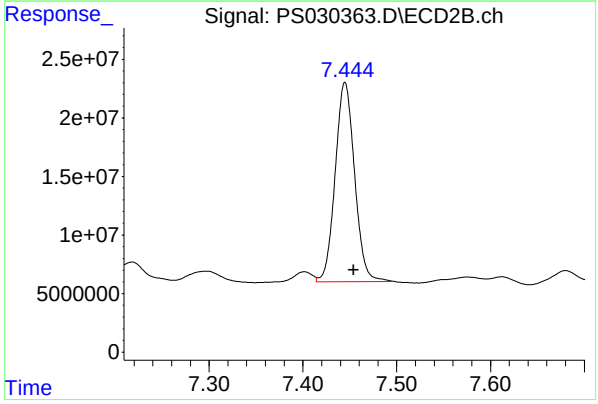
#4 2,4-DCAA

R.T.: 6.928 min
Delta R.T.: -0.005 mi
Response: 982162950
Conc: 344.88 ng/m

Instrument :
ECD_S
ClientSampleId :
TP-20

Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 05/23/2025
Supervised By :mohammad ahmed 05/24/2025



#4 2,4-DCAA

R.T.: 7.444 min
Delta R.T.: -0.009 min
Response: 243977544
Conc: 304.89 ng/ml m

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS052225\
Data File : PS030364.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 May 2025 22:53
Operator : AR\AJ
Sample : Q2074-05
Misc :
ALS Vial : 26 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
TP-38

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 23 02:02:03 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	7.446	1064.6E6	274.4E6	373.827	342.882
	Target Compounds						

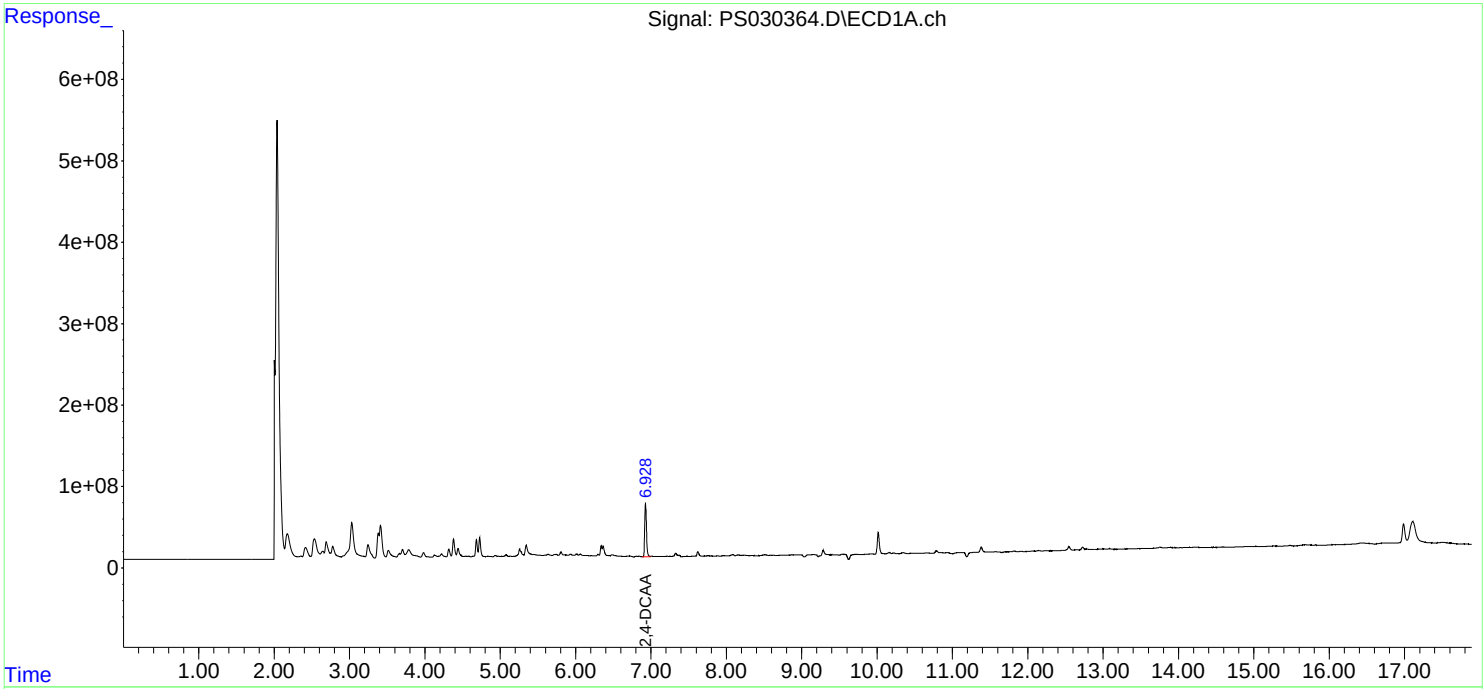
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

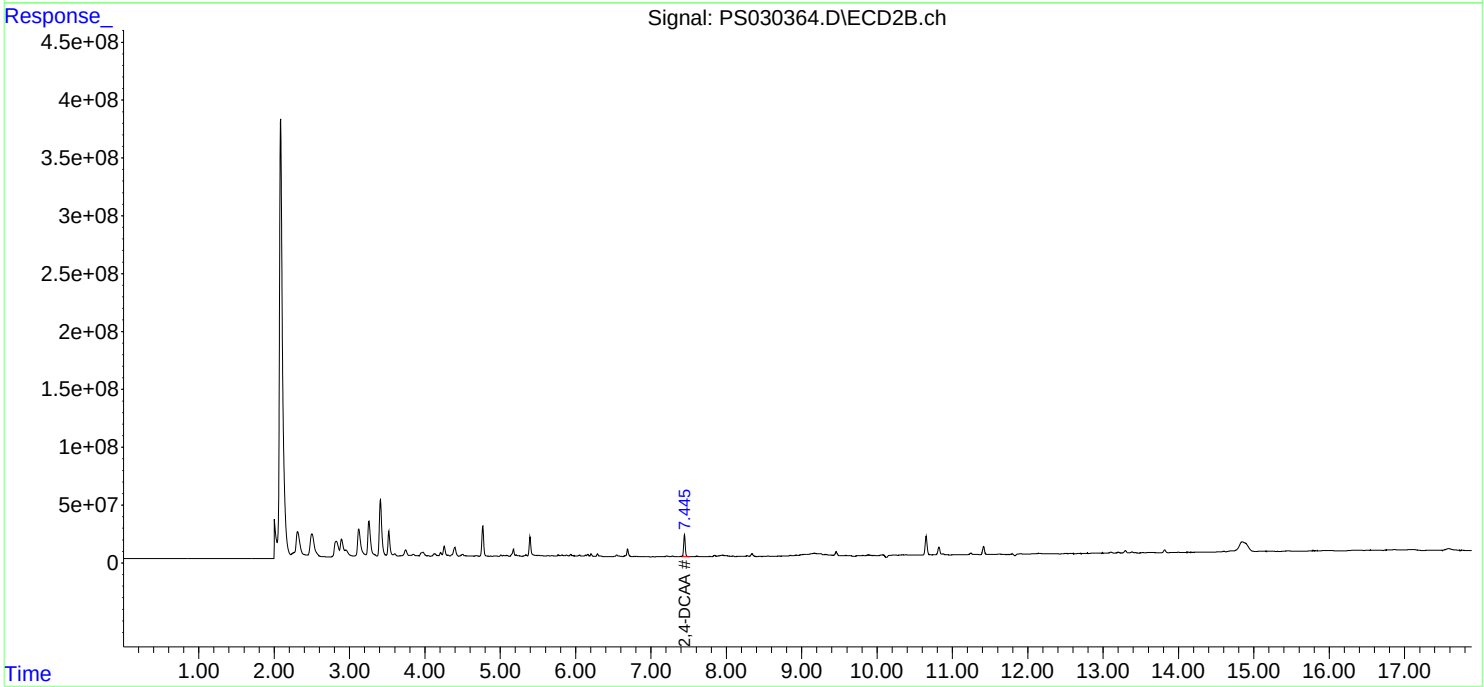
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS052225\
Data File : PS030364.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 May 2025 22:53
Operator : AR\AJ
Sample : Q2074-05
Misc :
ALS Vial : 26 Sample Multiplier: 1

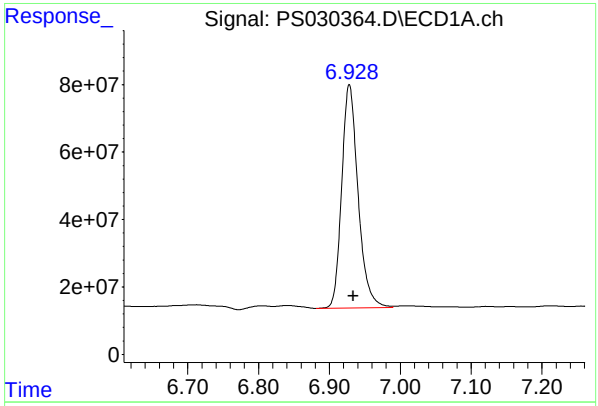
Instrument :
ECD_S
ClientSampleId :
TP-38

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 23 02:02:03 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



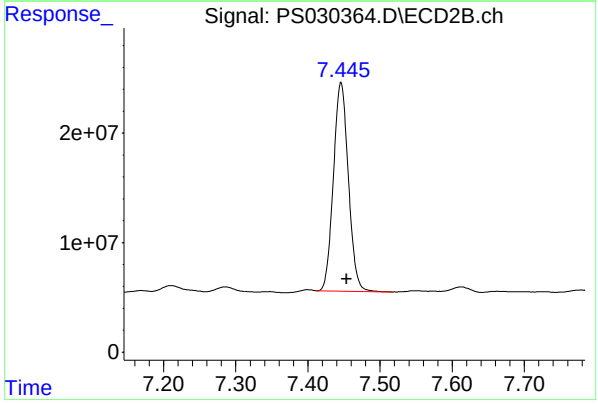




#4 2,4-DCAA

R.T.: 6.928 min
Delta R.T.: -0.005 min
Response: 1064588108
Conc: 373.83 ng/ml

Instrument :
ECD_S
ClientSampleId :
TP-38



#4 2,4-DCAA

R.T.: 7.446 min
Delta R.T.: -0.008 min
Response: 274375156
Conc: 342.88 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS052225\
Data File : PS030365.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 May 2025 23:17
Operator : AR\AJ
Sample : Q2074-06
Misc :
ALS Vial : 27 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
TP-19

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 23 02:02:13 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	7.446	1001.2E6	248.4E6	351.559	310.370
	Target Compounds						

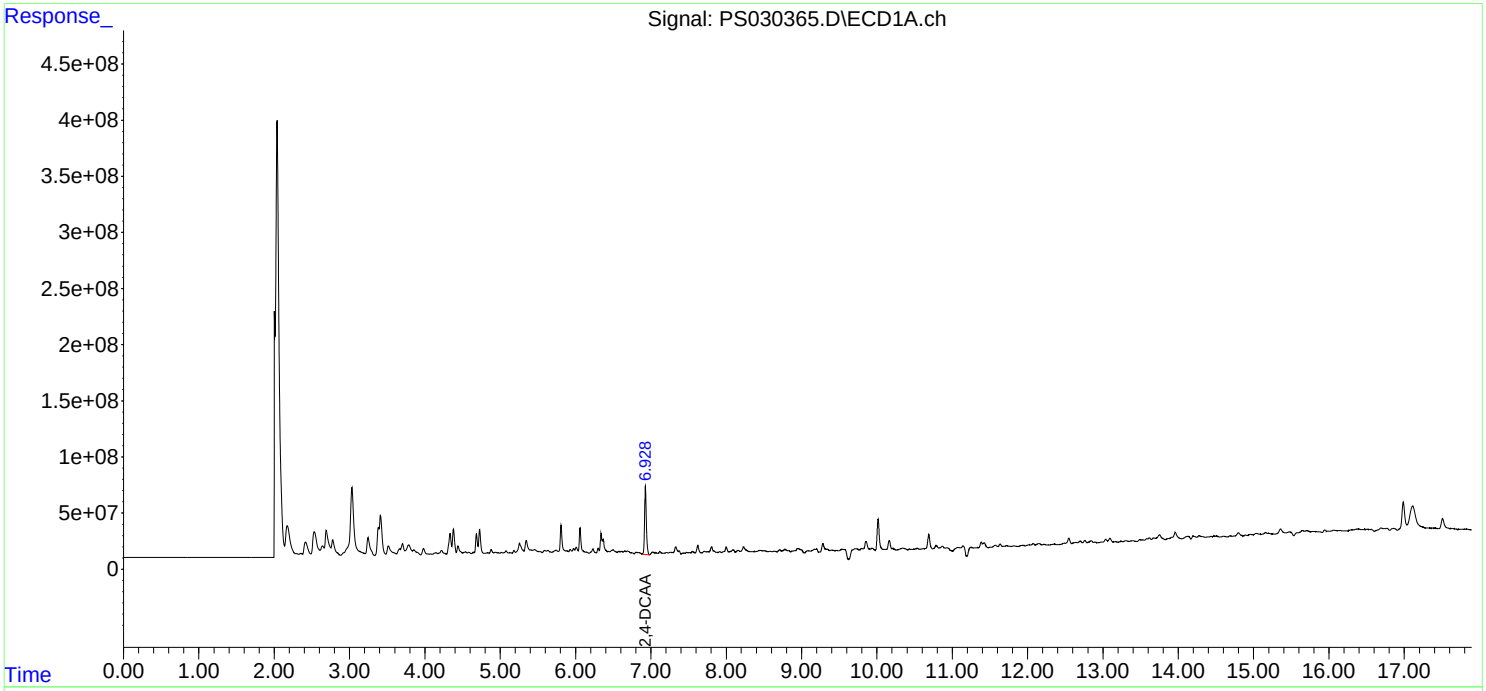
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

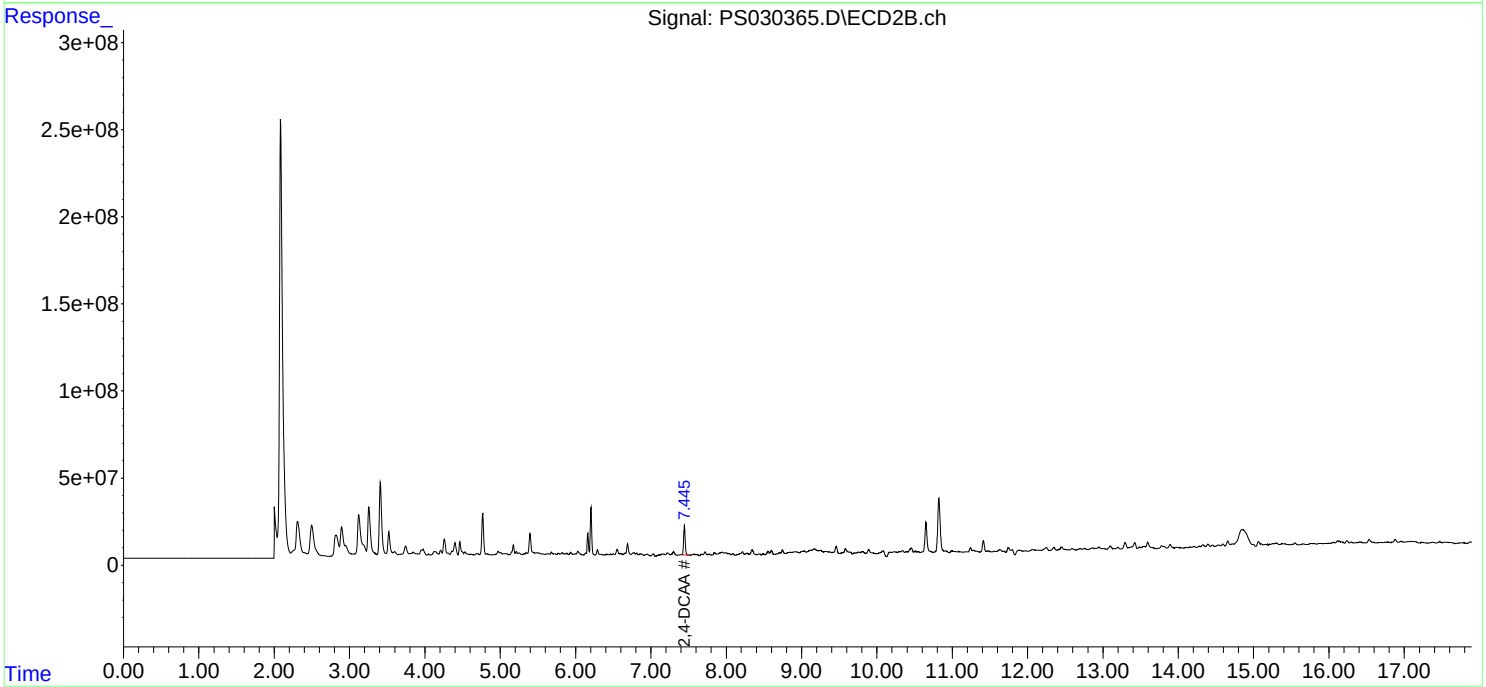
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS052225\
Data File : PS030365.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 May 2025 23:17
Operator : AR\AJ
Sample : Q2074-06
Misc :
ALS Vial : 27 Sample Multiplier: 1

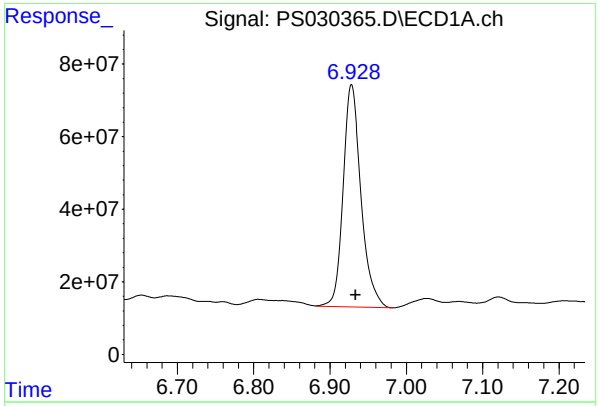
Instrument :
ECD_S
ClientSampleId :
TP-19

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 23 02:02:13 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



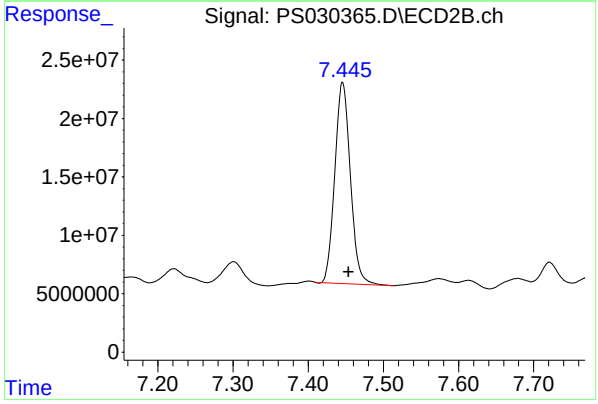




#4 2,4-DCAA

R.T.: 6.928 min
Delta R.T.: -0.005 min
Response: 1001171620
Conc: 351.56 ng/ml

Instrument :
ECD_S
ClientSampleId :
TP-19



#4 2,4-DCAA

R.T.: 7.446 min
Delta R.T.: -0.008 min
Response: 248359290
Conc: 310.37 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS052225\
Data File : PS030366.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 May 2025 23:41
Operator : AR\AJ
Sample : Q2074-07
Misc :
ALS Vial : 28 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
TP-40

Manual Integrations APPROVED
Reviewed By :Abdul Mirza 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 23 02:02:24 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	796.5E6	191.3E6	279.672	239.040m
	Target Compounds						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

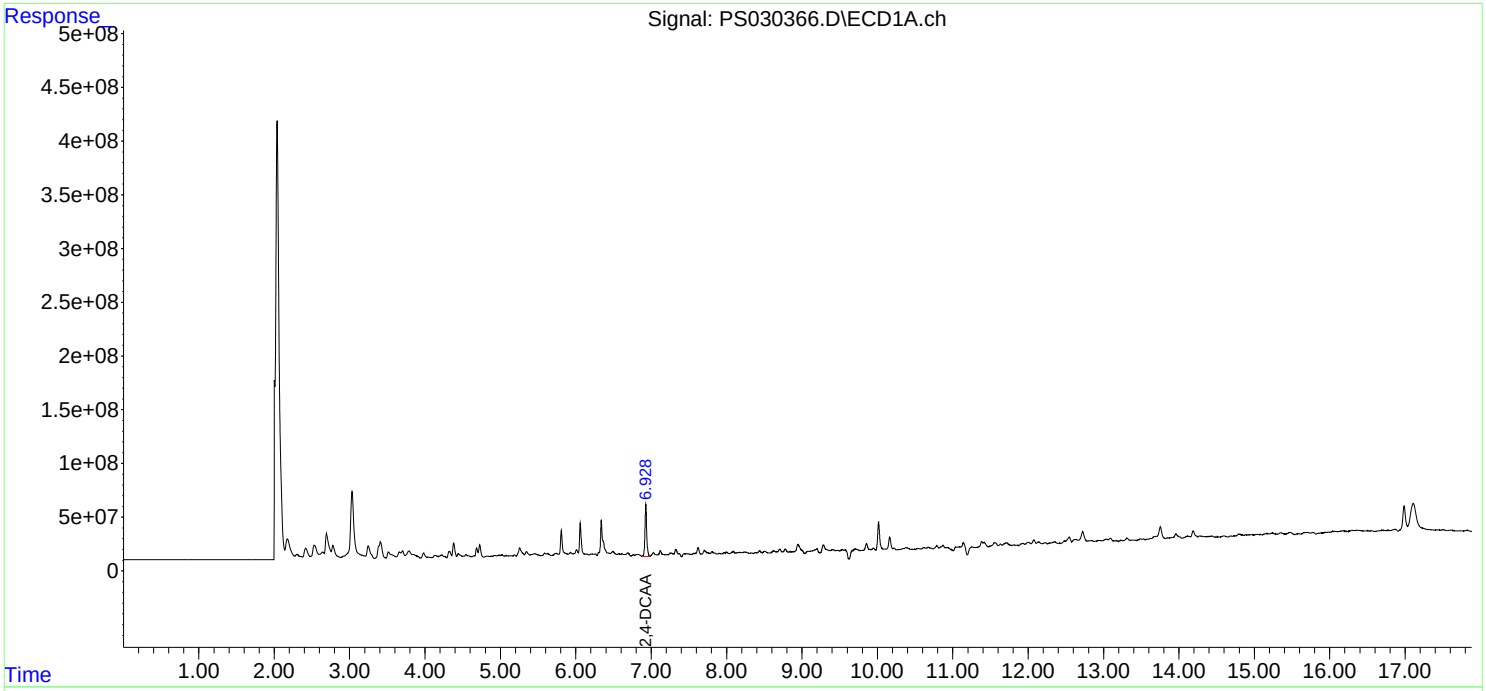
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS052225\
Data File : PS030366.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 May 2025 23:41
Operator : AR\AJ
Sample : Q2074-07
Misc :
ALS Vial : 28 Sample Multiplier: 1

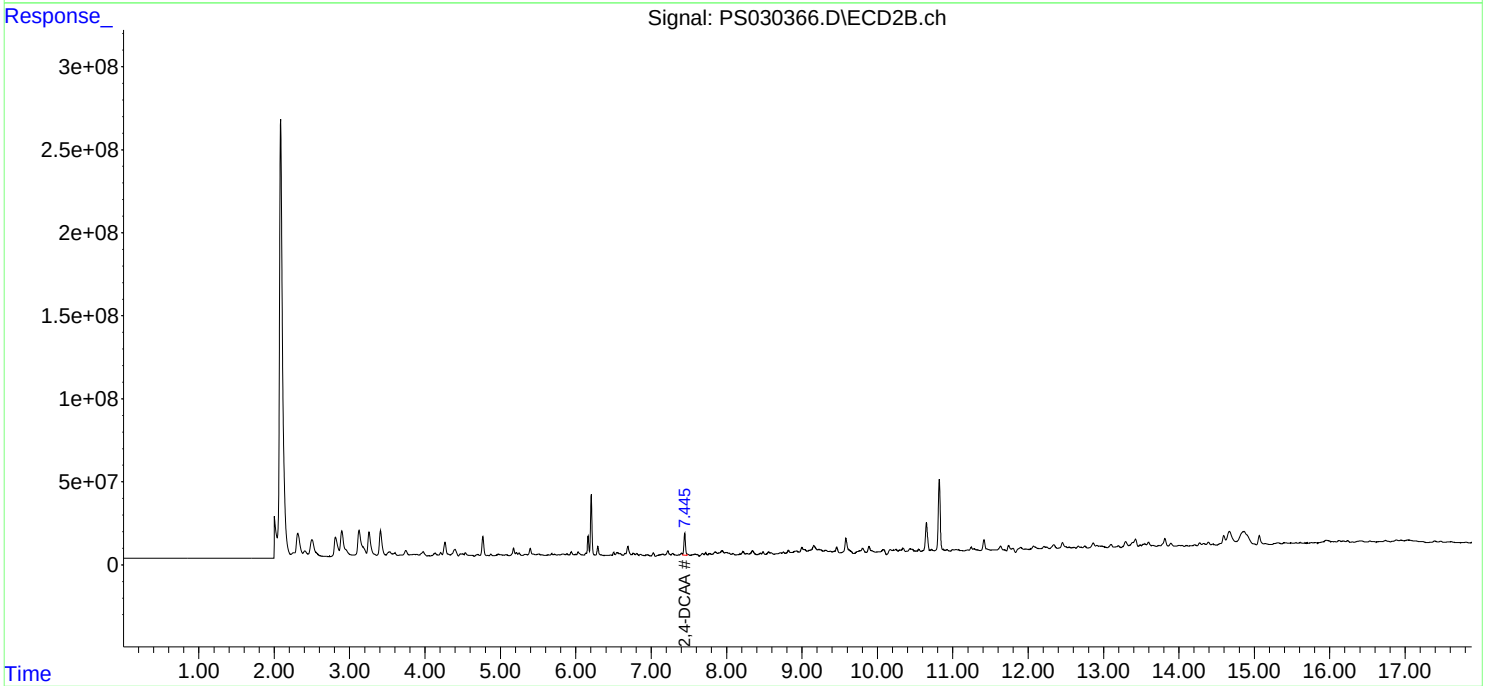
Instrument :
ECD_S
ClientSampleId :
TP-40

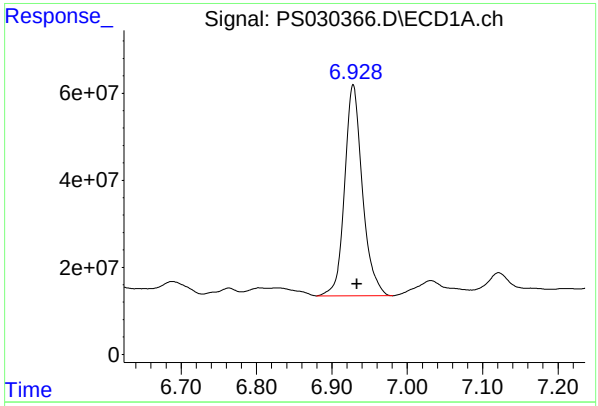
Manual Integrations APPROVED
Reviewed By :Abdul Mirza 05/23/2025
Supervised By :mohammad ahmed 05/24/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 23 02:02:24 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







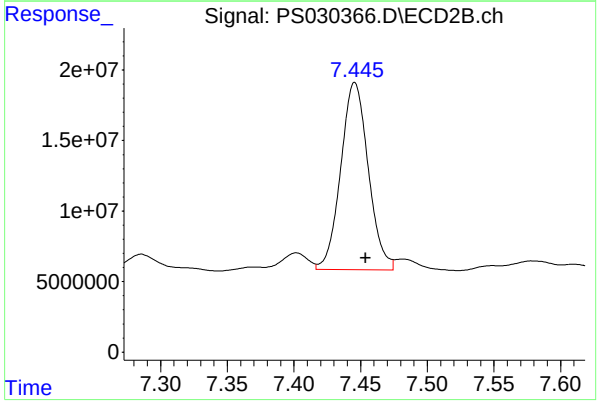
#4 2,4-DCAA

R.T.: 6.928 min
Delta R.T.: -0.005 mi
Response: 796453009
Conc: 279.67 ng/m

Instrument :
ECD_S
ClientSampleId :
TP-40

Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 05/23/2025
Supervised By :mohammad ahmed 05/24/2025



#4 2,4-DCAA

R.T.: 7.445 min
Delta R.T.: -0.009 min
Response: 191280543
Conc: 239.04 ng/ml m

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS052225\
Data File : PS030367.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 23 May 2025 00:05
Operator : AR\AJ
Sample : Q2074-08
Misc :
ALS Vial : 29 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
TP-18

Manual Integrations APPROVED

Reviewed By :Abdul Mirza 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 23 02:02:35 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	924.0E6	237.7E6	324.445	296.994m
	Target Compounds						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

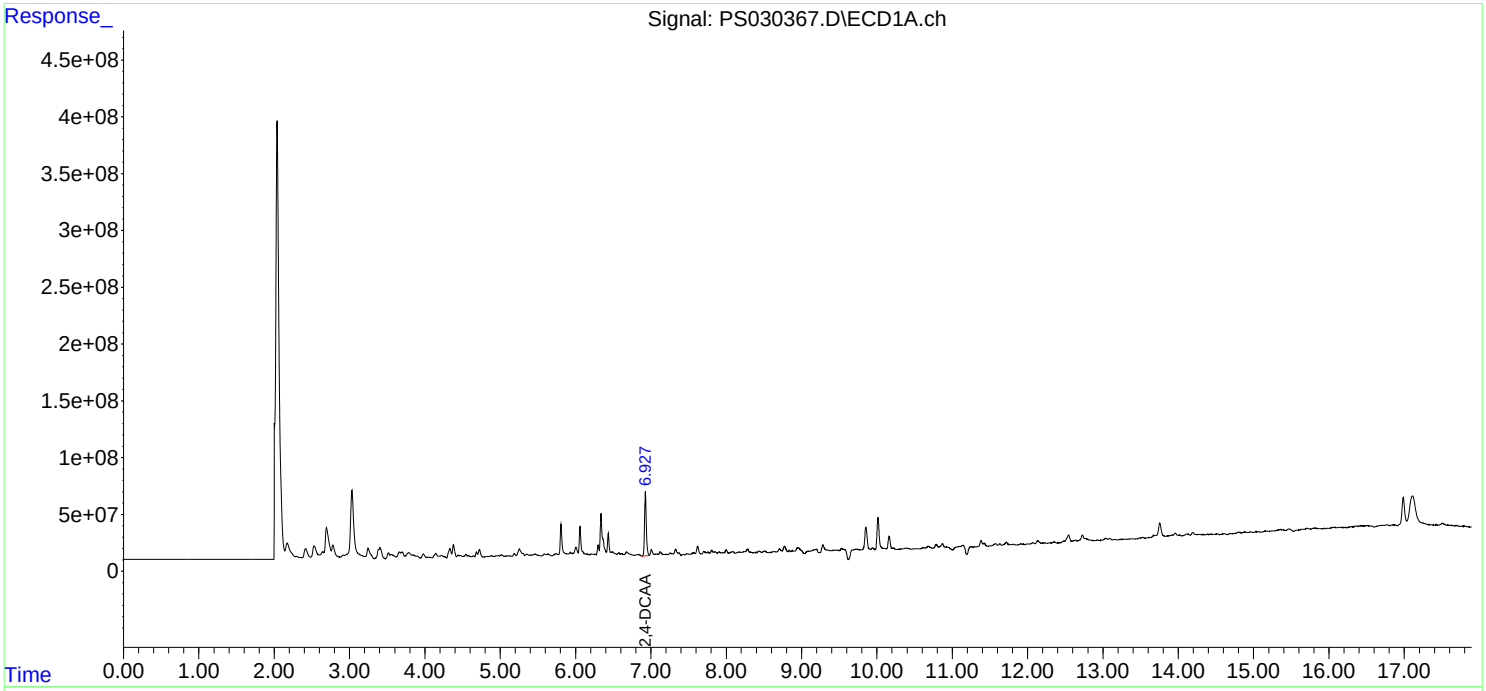
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS052225\
Data File : PS030367.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 23 May 2025 00:05
Operator : AR\AJ
Sample : Q2074-08
Misc :
ALS Vial : 29 Sample Multiplier: 1

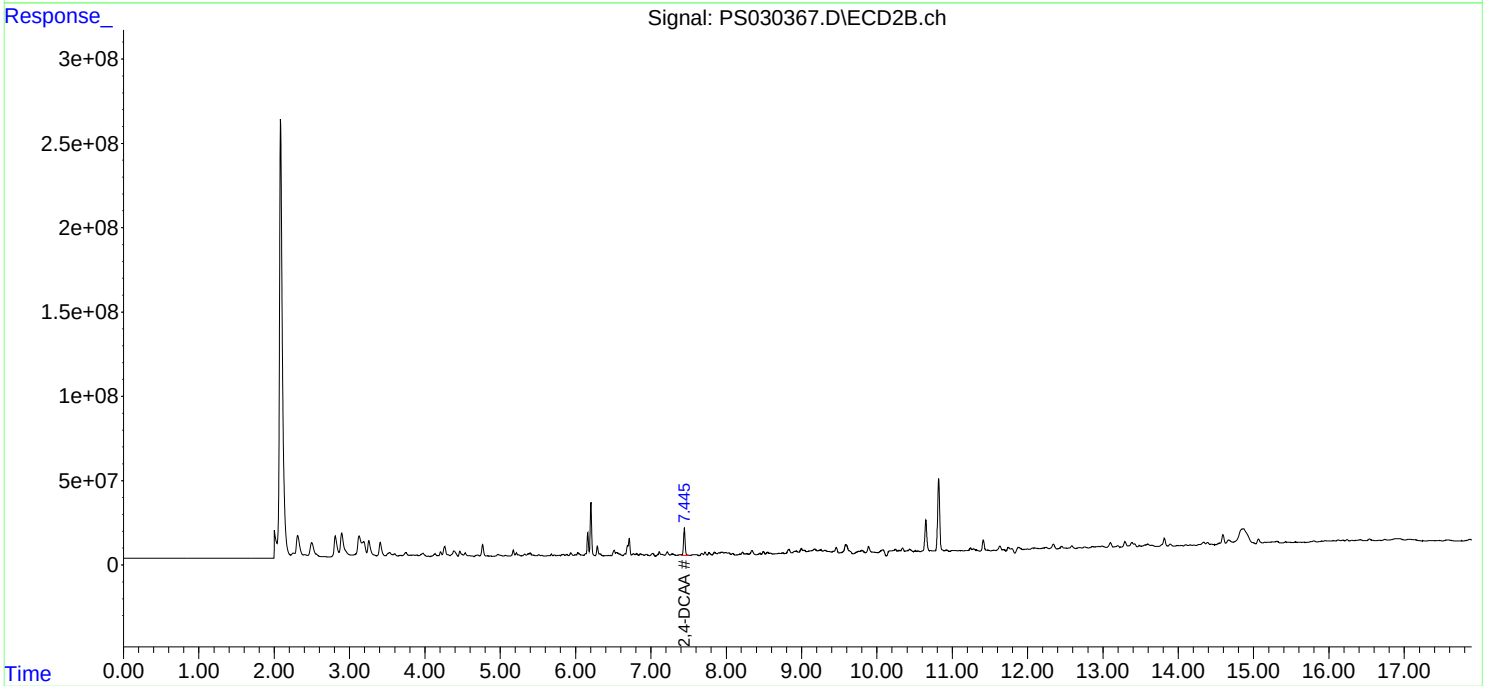
Instrument :
ECD_S
ClientSampleId :
TP-18

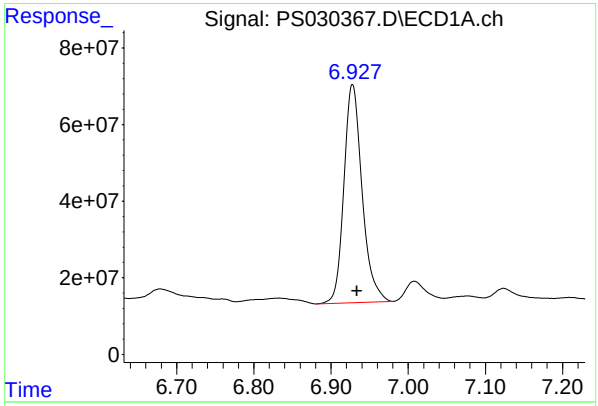
Manual Integrations APPROVED
Reviewed By :Abdul Mirza 05/23/2025
Supervised By :mohammad ahmed 05/24/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 23 02:02:35 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







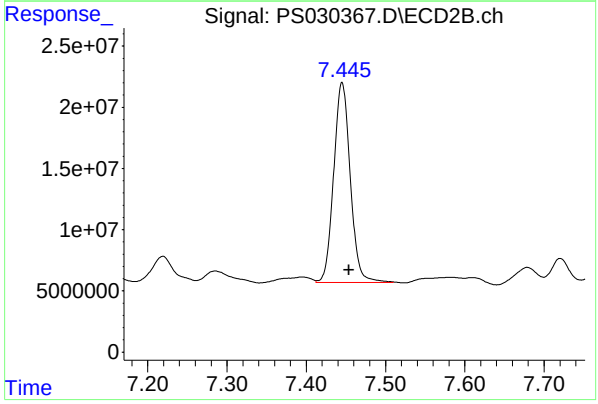
#4 2,4-DCAA

R.T.: 6.928 min
Delta R.T.: -0.006 mi
Response: 923957306
Conc: 324.45 ng/m

Instrument :
ECD_S
ClientSampleId :
TP-18

Manual Integrations APPROVED

Reviewed By :Abdul Mirza 05/23/2025
Supervised By :mohammad ahmed 05/24/2025



#4 2,4-DCAA

R.T.: 7.445 min
Delta R.T.: -0.009 min
Response: 237655350
Conc: 296.99 ng/ml m

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS052125\
Data File : PS030315.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 May 2025 16:32
Operator : AR\AJ
Sample : PB168097BL
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
PB168097BL

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 22 05:52:26 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	6.929	7.442	1188.7E6	286.0E6	417.392	357.366
	Target Compounds						

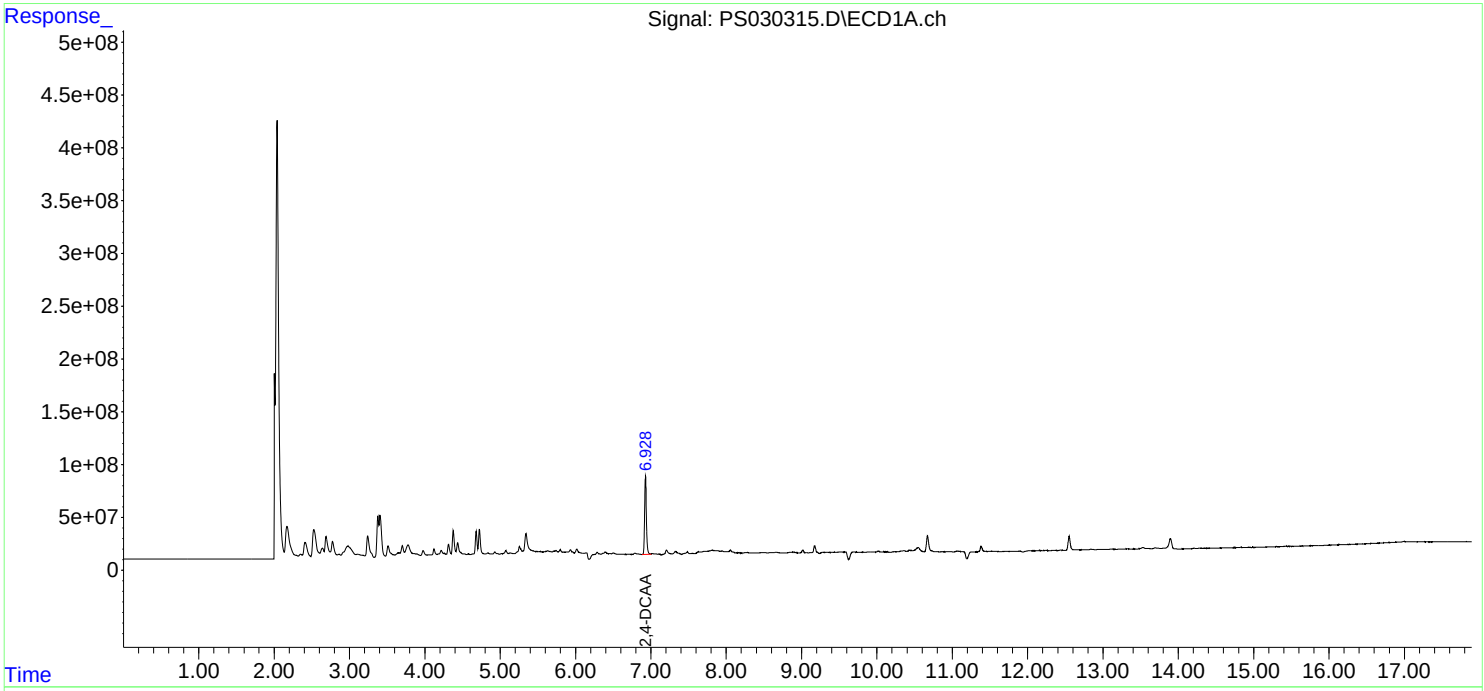
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

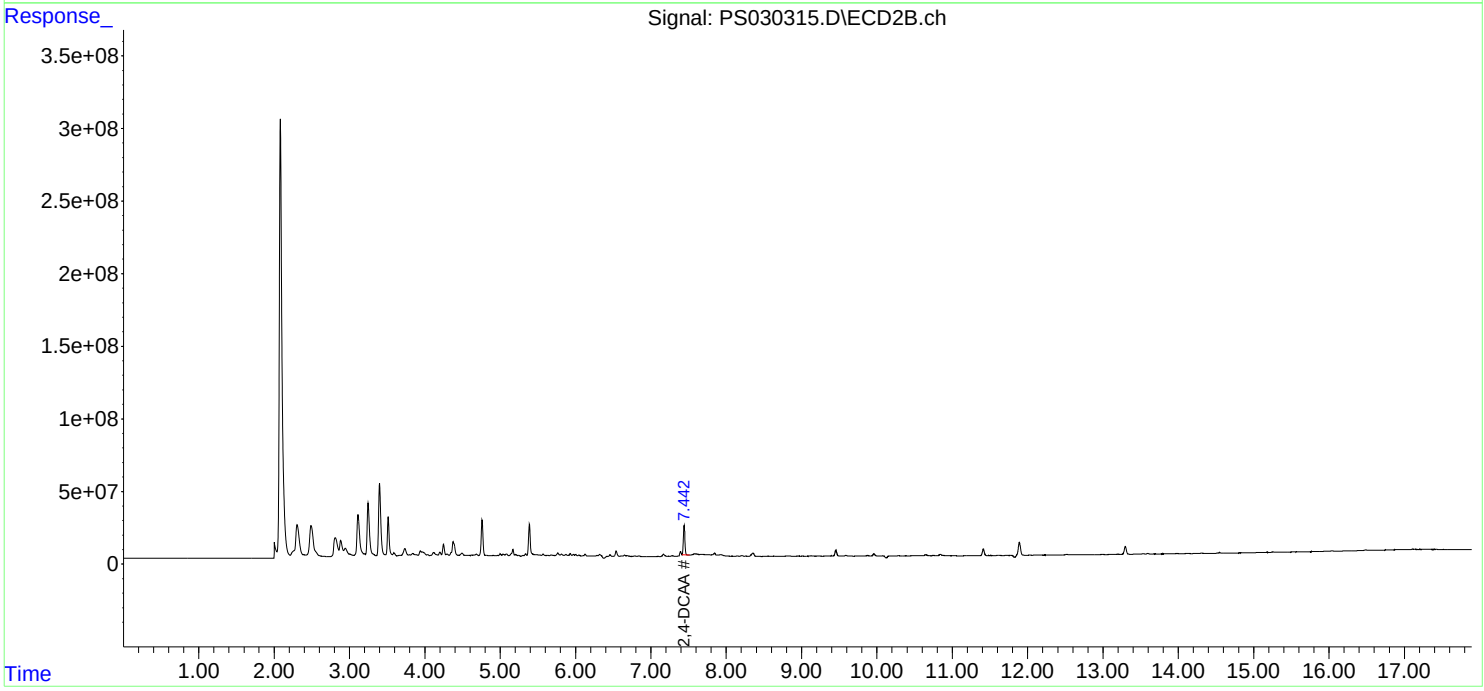
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS052125\
Data File : PS030315.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 May 2025 16:32
Operator : AR\AJ
Sample : PB168097BL
Misc :
ALS Vial : 4 Sample Multiplier: 1

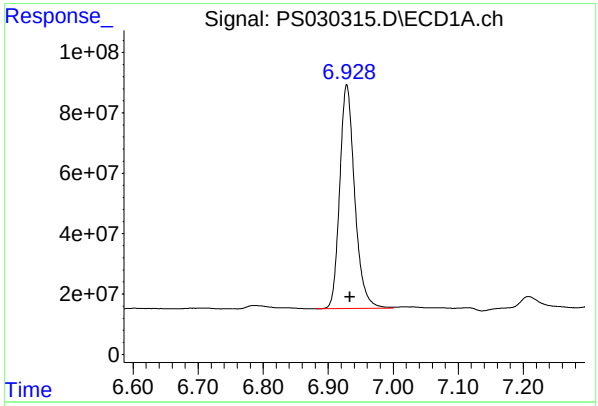
Instrument :
ECD_S
ClientSampleId :
PB168097BL

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 22 05:52:26 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



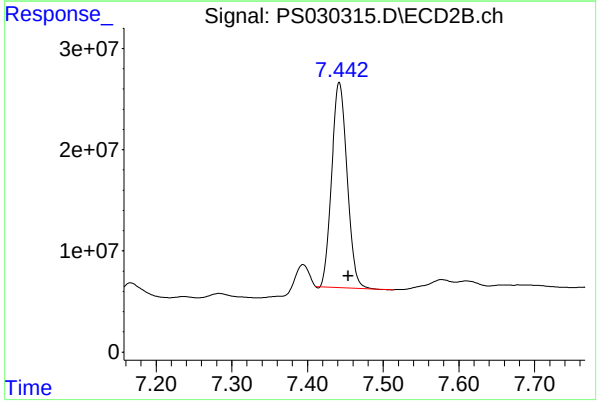




#4 2,4-DCAA

R.T.: 6.929 min
Delta R.T.: -0.005 min
Response: 1188652017
Conc: 417.39 ng/ml

Instrument :
ECD_S
ClientSampleId :
PB168097BL



#4 2,4-DCAA

R.T.: 7.442 min
Delta R.T.: -0.012 min
Response: 285965933
Conc: 357.37 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS052125\
Data File : PS030316.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 May 2025 16:56
Operator : AR\AJ
Sample : PB168097BS
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
PB168097BS

Manual Integrations APPROVED
Reviewed By :Abdul Mirza 05/22/2025
Supervised By :mohammad ahmed 05/23/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 22 05:52:46 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	6.929	7.447	1523.7E6	404.8E6	535.056	505.873
		Target Compounds						
1)	T	Dalapon	2.444	2.518	2338.8E6	922.7E6	475.821	454.310
2)	T	3,5-DICHL...	6.135	6.448	2061.6E6	520.5E6	494.317	446.496
3)	T	4-Nitroph...	6.720	6.982	990.0E6	429.8E6	479.286	411.688
5)	T	DICAMBA	7.105	7.632	5857.0E6	2258.4E6	506.775	477.659
6)	T	MCPP	7.284	7.739	327.3E6	86272929	44.937	46.893
7)	T	MCPA	7.426	7.968	493.5E6	123.9E6	47.538	46.987
8)	T	DICHLORPROP	7.785	8.324	1464.0E6	558.0E6	501.138	472.310
9)	T	2,4-D	8.005	8.636	1649.3E6	624.4E6	502.998	483.876
10)	T	Pentachlo...	8.282	9.135	21408.9E6	12377.8E6	528.606	501.433
11)	T	2,4,5-TP ...	8.846	9.513	8304.3E6	4857.6E6	512.739	493.140
12)	T	2,4,5-T	9.127	9.917	8542.8E6	4493.1E6	517.270	488.190
13)	T	2,4-DB	9.685	10.474	1393.7E6	417.5E6	534.041	420.724
14)	T	DINOSEB	10.845	10.848	5795.5E6	3285.7E6	506.765	480.923
15)	T	Picloram	10.666	11.882	10822.0E6	7896.0E6	506.009	561.070m
16)	T	DCPA	11.147	11.878	10406.4E6	5591.3E6	522.632	413.851m

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

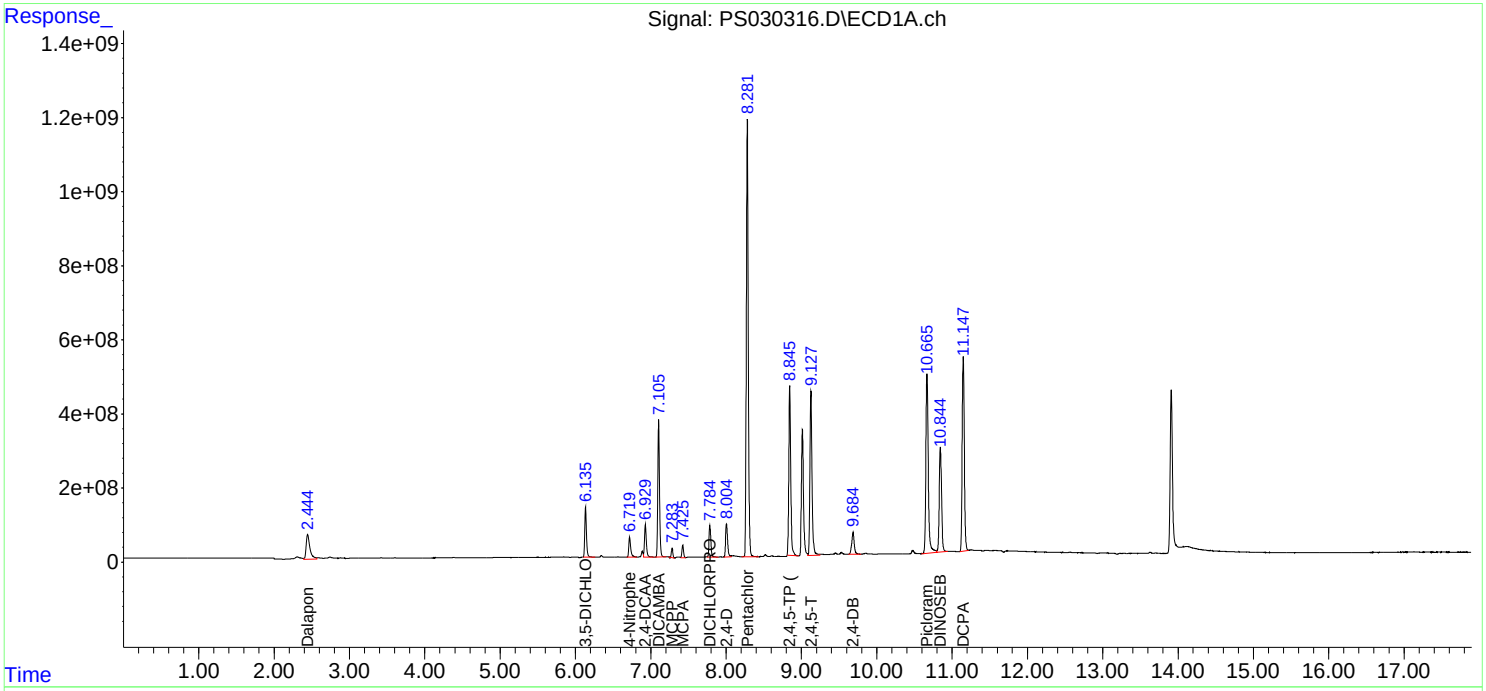
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS052125\
Data File : PS030316.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 May 2025 16:56
Operator : AR\AJ
Sample : PB168097BS
Misc :
ALS Vial : 5 Sample Multiplier: 1

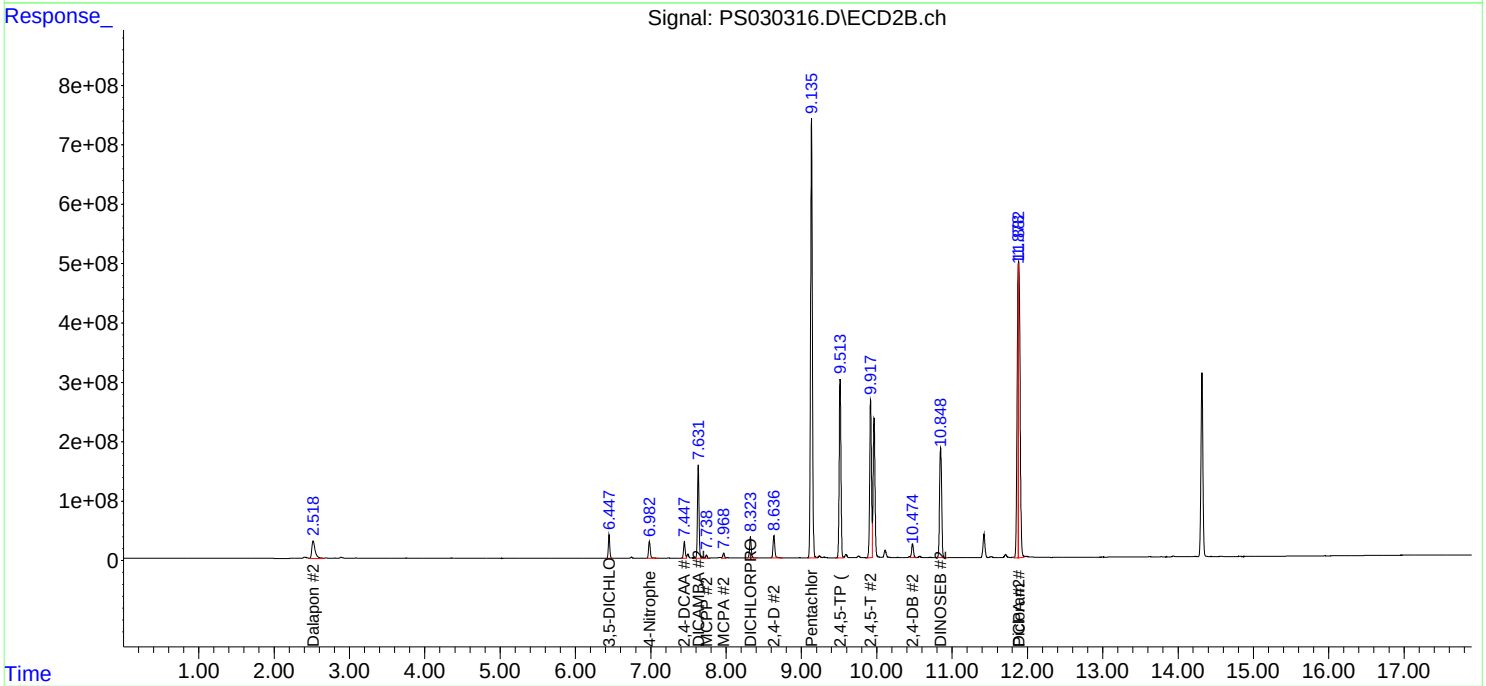
Instrument :
ECD_S
ClientSampleId :
PB168097BS

Manual Integrations APPROVED
Reviewed By :Abdul Mirza 05/22/2025
Supervised By :mohammad ahmed 05/23/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 22 05:52:46 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\PS052125\
Data File : PS030326.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 May 2025 22:09
Operator : AR\AJ
Sample : Q2071-01MS
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
L1-WC-7MS

Manual Integrations APPROVED
Reviewed By :Abdul Mirza 05/22/2025
Supervised By :mohammad ahmed 05/23/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 22 05:56:00 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	6.929	7.447	1471.8E6	319.8E6	516.803	399.587
		Target Compounds						
1)	T	Dalapon	2.442	2.512	1875.6E6	1584.5E6	381.581	780.123 #
2)	T	3,5-DICHL...	6.135	6.447	1849.0E6	437.7E6	443.355	375.478m
3)	T	4-Nitroph...	6.720	6.982	697.6E6	296.1E6	337.718	283.650
5)	T	DICAMBA	7.105	7.632	4519.3E6	1830.8E6	391.032	387.224
6)	T	MCPP	7.283	7.738	253.4E6	62247080	34.791	33.834
7)	T	MCPA	7.424	7.967	400.1E6	102.0E6	38.544	38.683
8)	T	DICHLORPROP	7.785	8.323	1244.0E6	481.4E6	425.826	407.439m
9)	T	2,4-D	8.004	8.636	1601.8E6	586.1E6	488.514	454.197
10)	T	Pentachlo...	8.281	9.135	15266.2E6	8737.8E6	376.935	353.972
11)	T	2,4,5-TP ...	8.845	9.513	6706.2E6	4218.0E6	414.066	428.201
12)	T	2,4,5-T	9.127	9.917	6800.6E6	3744.1E6	411.781	406.810
13)	T	2,4-DB	9.686	10.474	1344.7E6	346.6E6	515.242	349.254m#
14)	T	DINOSEB	10.845	10.844	486.7E6	224.0E6	42.556	32.780m
15)	T	Picloram	10.665	11.878	7510.8E6	5745.4E6	351.184	408.255m
16)	T	DCPA	11.146	11.877	8202.7E6	4096.1E6	411.960	303.179m#

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

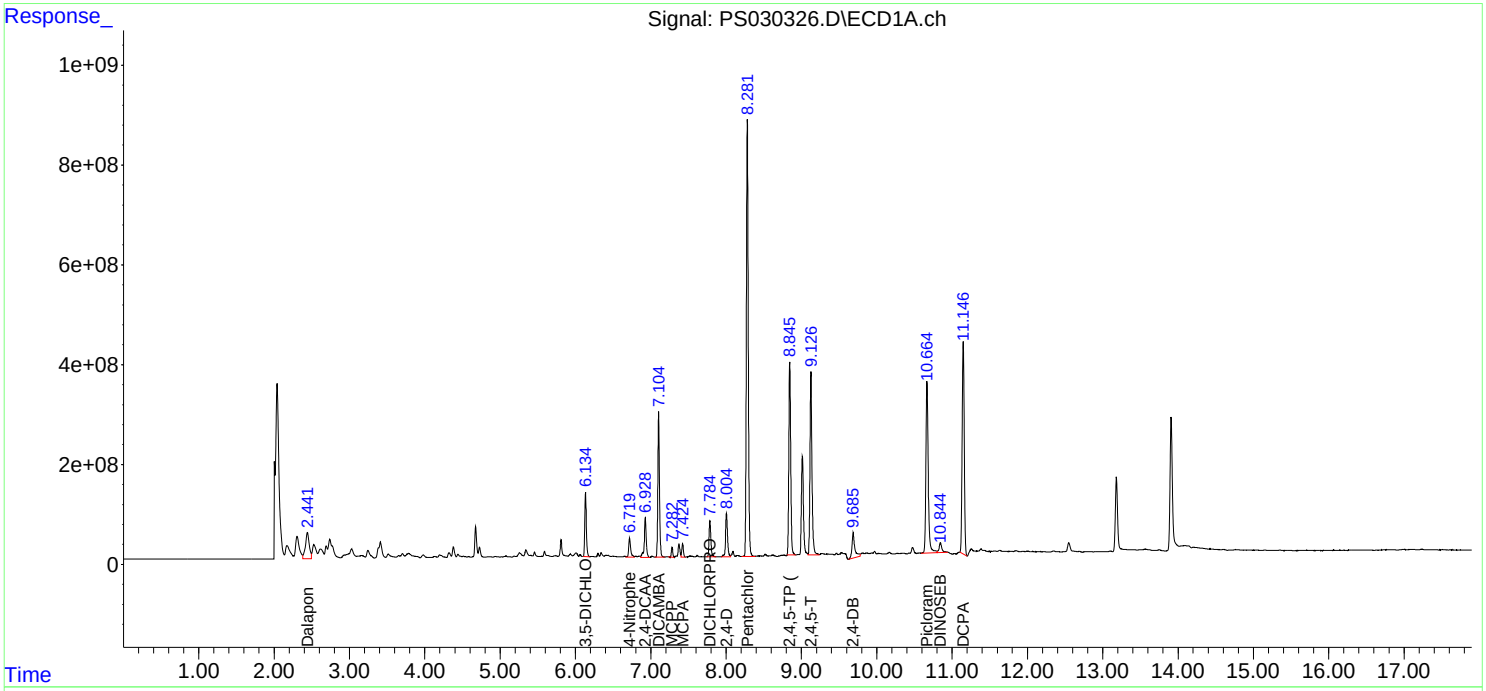
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS052125\
Data File : PS030326.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 May 2025 22:09
Operator : AR\AJ
Sample : Q2071-01MS
Misc :
ALS Vial : 13 Sample Multiplier: 1

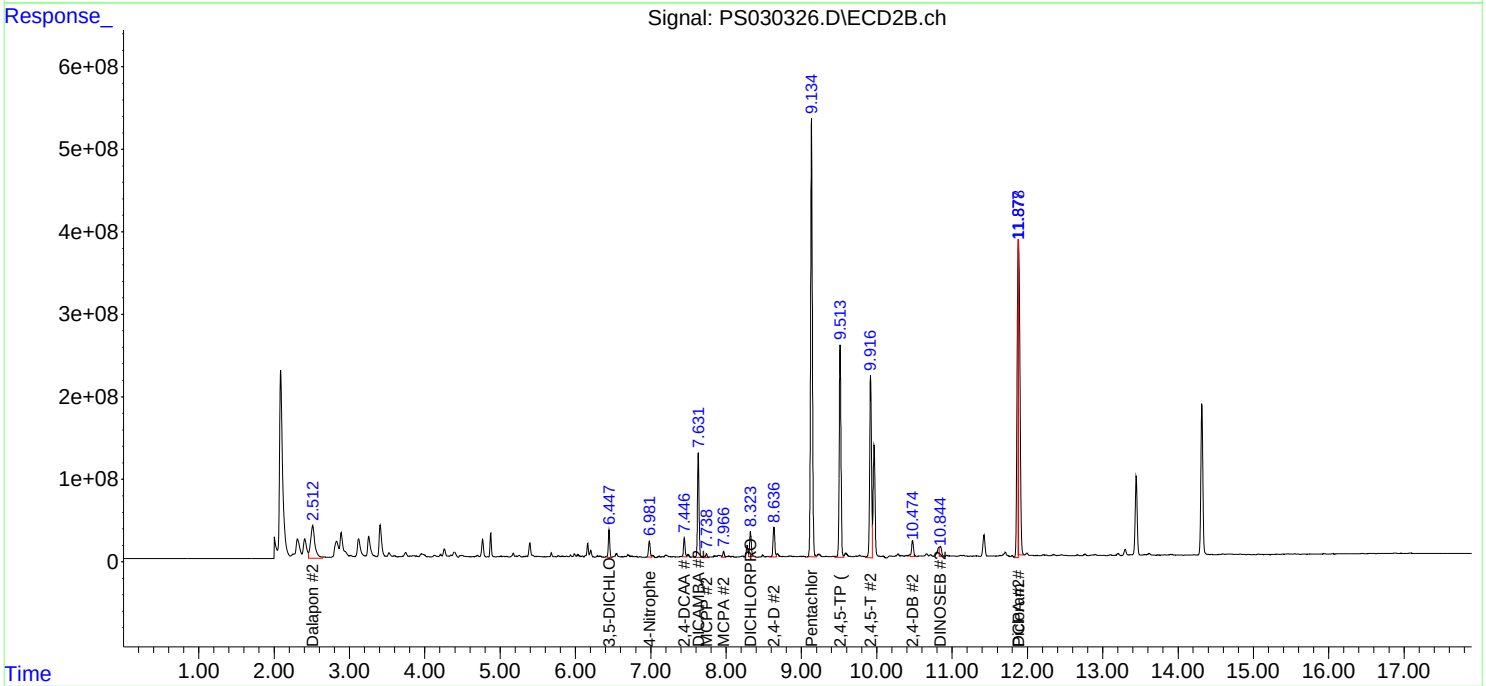
Instrument :
ECD_S
ClientSampleId :
L1-WC-7MS

Manual Integrations APPROVED
Reviewed By :Abdul Mirza 05/22/2025
Supervised By :mohammad ahmed 05/23/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 22 05:56:00 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\PS052125\
Data File : PS030327.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 May 2025 22:33
Operator : AR\AJ
Sample : Q2071-01MSD
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
L1-WC-7MSD

Manual Integrations APPROVED
Reviewed By :Abdul Mirza 05/22/2025
Supervised By :mohammad ahmed 05/23/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 22 05:56:15 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	6.930	7.447	1475.1E6	322.2E6	517.981	402.604
		Target Compounds						
1)	T	Dalapon	2.442	2.513	1870.1E6	1415.6E6	380.453	696.976 #
2)	T	3,5-DICHL...	6.135	6.448	1860.3E6	450.6E6	446.063	386.491m
3)	T	4-Nitroph...	6.720	6.982	697.7E6	297.6E6	337.757	285.060
5)	T	DICAMBA	7.106	7.632	4543.9E6	1848.2E6	393.159	390.914
6)	T	MCPP	7.283	7.739	258.5E6	63484102	35.493	34.507
7)	T	MCPA	7.425	7.967	401.7E6	107.6E6	38.699	40.809
8)	T	DICHLORPROP	7.785	8.323	1255.5E6	483.4E6	429.751	409.155m
9)	T	2,4-D	8.005	8.636	1610.8E6	592.0E6	491.242	458.727
10)	T	Pentachlo...	8.282	9.135	15356.1E6	8845.9E6	379.155	358.352
11)	T	2,4,5-TP ...	8.845	9.514	6790.4E6	4267.7E6	419.264	433.253
12)	T	2,4,5-T	9.128	9.917	6857.5E6	3793.2E6	415.223	412.142
13)	T	2,4-DB	9.686	10.474	1342.5E6	426.7E6	514.395	430.027
14)	T	DINOSEB	10.845	10.844	469.1E6	217.7E6	41.015	31.863m
15)	T	Picloram	10.666	11.880	7562.4E6	5465.7E6	353.600	388.381m
16)	T	DCPA	11.147	11.879	8272.5E6	4682.6E6	415.466	346.587m

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

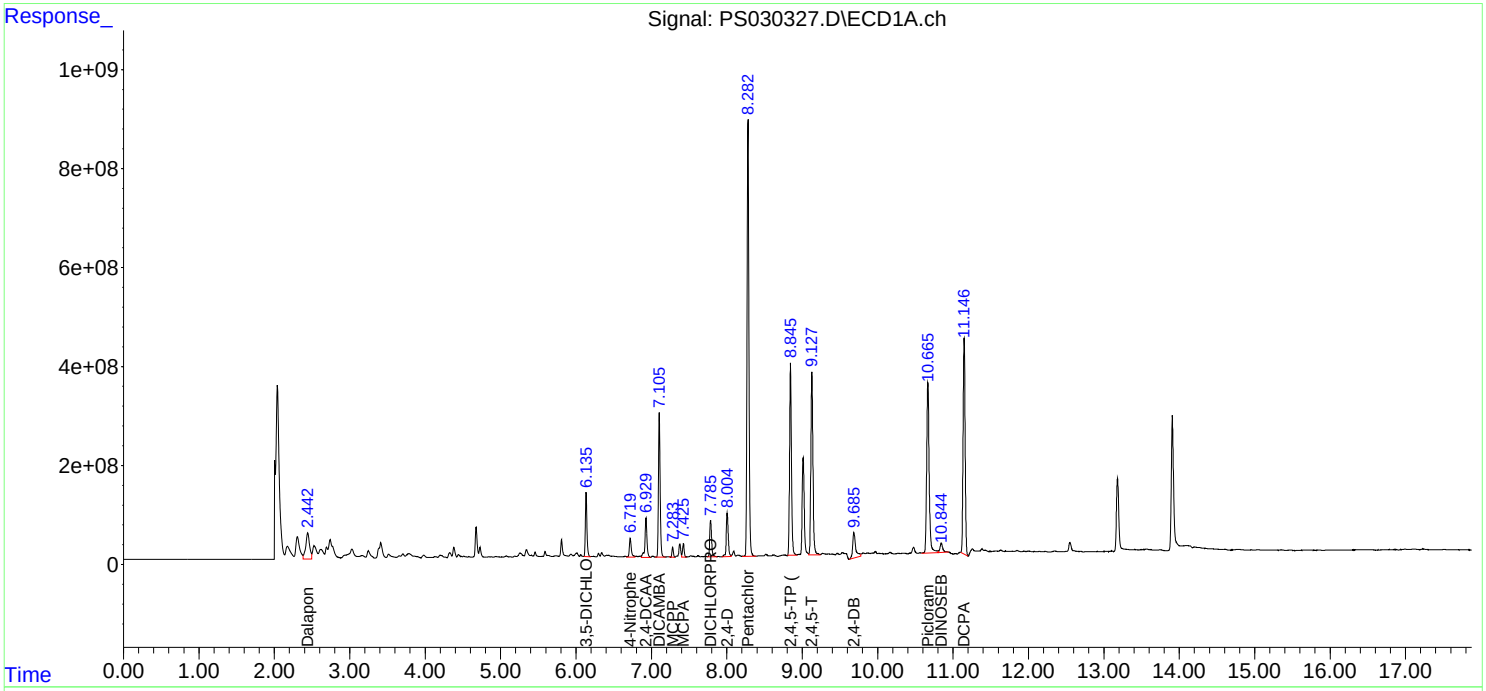
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS052125\
Data File : PS030327.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 May 2025 22:33
Operator : AR\AJ
Sample : Q2071-01MSD
Misc :
ALS Vial : 14 Sample Multiplier: 1

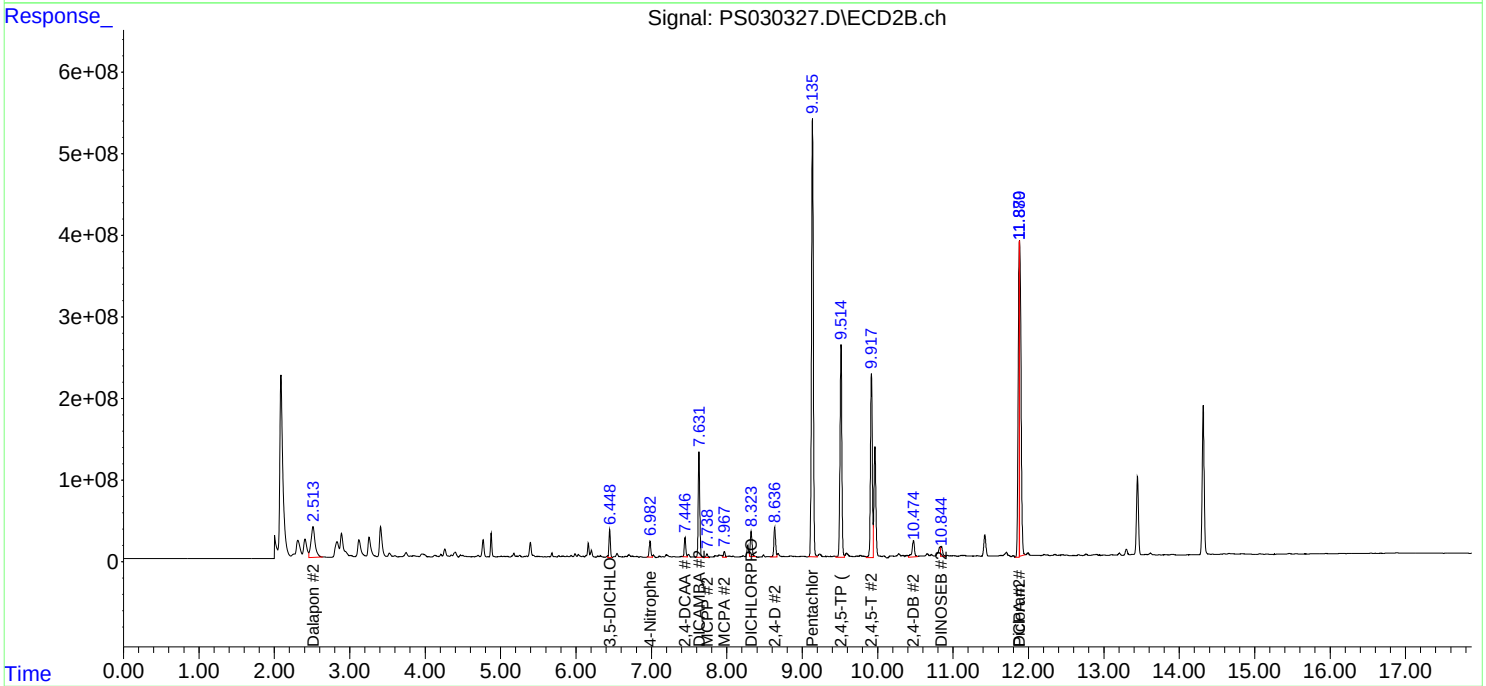
Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 22 05:56:15 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS051225.M
Quant Title : 8080.M
QLast Update : Mon May 12 14:29:24 2025
Response via : Initial Calibration
Integrator: ChemStation

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

Instrument :
ECD_S
ClientSampleId :
L1-WC-7MSD

Manual Integrations APPROVED
Reviewed By :Abdul Mirza 05/22/2025
Supervised By :mohammad ahmed 05/23/2025





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:	ps052125	Instrument	ECD_s

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
HSTDCCC750	PS030314.D	DCPA #2	Abdul	5/22/2025 8:05:06 AM	mohammad	5/23/2025 5:17:09	Peak Integrated by Software
HSTDCCC750	PS030314.D	Picloram #2	Abdul	5/22/2025 8:05:06 AM	mohammad	5/23/2025 5:17:09	Peak Integrated by Software
PB168097BS	PS030316.D	DCPA #2	Abdul	5/22/2025 8:05:10 AM	mohammad	5/23/2025 5:17:09	Peak Integrated by Software
PB168097BS	PS030316.D	Picloram #2	Abdul	5/22/2025 8:05:10 AM	mohammad	5/23/2025 5:17:09	Peak Integrated by Software
HSTDCCC750	PS030324.D	DCPA #2	Abdul	5/22/2025 8:05:41 AM	mohammad	5/23/2025 5:17:09	Peak Integrated by Software
HSTDCCC750	PS030324.D	Picloram #2	Abdul	5/22/2025 8:05:41 AM	mohammad	5/23/2025 5:17:09	Peak Integrated by Software
Q2071-01MS	PS030326.D	2,4-DB #2	Abdul	5/22/2025 8:05:49 AM	mohammad	5/23/2025 5:17:09	Peak Integrated by Software
Q2071-01MS	PS030326.D	3,5-DICHLOROBENZOIC ACID #2	Abdul	5/22/2025 8:05:49 AM	mohammad	5/23/2025 5:17:09	Peak Integrated by Software
Q2071-01MS	PS030326.D	DCPA #2	Abdul	5/22/2025 8:05:49 AM	mohammad	5/23/2025 5:17:09	Peak Integrated by Software
Q2071-01MS	PS030326.D	DICHLORPROP #2	Abdul	5/22/2025 8:05:49 AM	mohammad	5/23/2025 5:17:09	Peak Integrated by Software
Q2071-01MS	PS030326.D	DINOSEB #2	Abdul	5/22/2025 8:05:49 AM	mohammad	5/23/2025 5:17:09	Peak Integrated by Software
Q2071-01MS	PS030326.D	Picloram #2	Abdul	5/22/2025 8:05:49 AM	mohammad	5/23/2025 5:17:09	Peak Integrated by Software
Q2071-01MSD	PS030327.D	3,5-DICHLOROBENZOIC ACID #2	Abdul	5/22/2025 8:05:53 AM	mohammad	5/23/2025 5:17:09	Peak Integrated by Software

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Manual Integration Report

Sequence:	ps052125	Instrument	ECD_s

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q2071-01MSD	PS030327.D	DCPA #2	Abdul	5/22/2025 8:05:53 AM	mohammad	5/23/2025 5:17:09	Peak Integrated by Software
Q2071-01MSD	PS030327.D	DICHLORPROP #2	Abdul	5/22/2025 8:05:53 AM	mohammad	5/23/2025 5:17:09	Peak Integrated by Software
Q2071-01MSD	PS030327.D	DINOSEB #2	Abdul	5/22/2025 8:05:53 AM	mohammad	5/23/2025 5:17:09	Peak Integrated by Software
Q2071-01MSD	PS030327.D	Picloram #2	Abdul	5/22/2025 8:05:53 AM	mohammad	5/23/2025 5:17:09	Peak Integrated by Software
HSTDCCC750	PS030334.D	DCPA #2	Abdul	5/22/2025 8:06:26 AM	mohammad	5/23/2025 5:17:09	Peak Integrated by Software
HSTDCCC750	PS030334.D	Picloram #2	Abdul	5/22/2025 8:06:26 AM	mohammad	5/23/2025 5:17:09	Peak Integrated by Software

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Manual Integration Report

Sequence:	PS052225	Instrument	ECD_s

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
HSTDCCC750	PS030337.D	DCPA #2	Abdul	5/23/2025 8:21:41 AM	mohammad	5/24/2025 4:23:50	Peak Integrated by Software
HSTDCCC750	PS030337.D	Picloram #2	Abdul	5/23/2025 8:21:41 AM	mohammad	5/24/2025 4:23:50	Peak Integrated by Software
HSTDCCC750	PS030348.D	DCPA #2	Abdul	5/23/2025 9:02:57 AM	mohammad	5/24/2025 4:23:50	Peak Integrated by Software
HSTDCCC750	PS030348.D	Picloram #2	Abdul	5/23/2025 9:02:57 AM	mohammad	5/24/2025 4:23:50	Peak Integrated by Software
HSTDCCC750	PS030359.D	DCPA #2	Abdul	5/23/2025 8:22:51 AM	mohammad	5/24/2025 4:23:50	Peak Integrated by Software
HSTDCCC750	PS030359.D	Picloram #2	Abdul	5/23/2025 8:22:51 AM	mohammad	5/24/2025 4:23:50	Peak Integrated by Software
Q2074-01	PS030360.D	2,4-DCAA #2	Abdul	5/23/2025 8:22:55 AM	mohammad	5/24/2025 4:23:50	Peak Integrated by Software
Q2074-03	PS030362.D	2,4-DCAA #2	Abdul	5/23/2025 8:22:59 AM	mohammad	5/24/2025 4:23:50	Peak Integrated by Software
Q2074-04	PS030363.D	2,4-DCAA #2	Abdul	5/23/2025 8:23:03 AM	mohammad	5/24/2025 4:23:50	Peak Integrated by Software
Q2074-07	PS030366.D	2,4-DCAA #2	Abdul	5/23/2025 8:23:07 AM	mohammad	5/24/2025 4:23:50	Peak Integrated by Software
Q2074-08	PS030367.D	2,4-DCAA #2	Abdul	5/23/2025 8:23:13 AM	mohammad	5/24/2025 4:23:50	Peak Integrated by Software
HSTDCCC750	PS030369.D	DCPA #2	Abdul	5/23/2025 9:03:01 AM	mohammad	5/24/2025 4:23:50	Peak Integrated by Software
HSTDCCC750	PS030369.D	Picloram #2	Abdul	5/23/2025 9:03:01 AM	mohammad	5/24/2025 4:23:50	Peak Integrated by Software

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

Manual Integration Report

Sequence:	PS052225	Instrument	ECD_s

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

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

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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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	

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 # PS052125

Review By	Abdul	Review On	5/22/2025 8:06:50 AM		
Supervise By	mohammad	Supervise On	5/23/2025 5:17:09 AM		
SubDirectory	PS052125	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	PS030312.D	21 May 2025 09:57	AR\AJ	Ok
2	I.BLK	PS030313.D	21 May 2025 10:21	AR\AJ	Ok
3	HSTDCCC750	PS030314.D	21 May 2025 15:25	AR\AJ	Ok,M
4	PB168097BL	PS030315.D	21 May 2025 16:32	AR\AJ	Ok
5	PB168097BS	PS030316.D	21 May 2025 16:56	AR\AJ	Ok,M
6	Q2062-01	PS030317.D	21 May 2025 17:20	AR\AJ	Ok,M
7	Q2062-05	PS030318.D	21 May 2025 17:44	AR\AJ	Ok,M
8	Q2062-09	PS030319.D	21 May 2025 18:08	AR\AJ	Ok,M
9	Q2062-13	PS030320.D	21 May 2025 18:32	AR\AJ	Ok,M
10	Q2062-17	PS030321.D	21 May 2025 18:56	AR\AJ	Ok,M
11	Q2062-21	PS030322.D	21 May 2025 19:20	AR\AJ	Not Ok
12	I.BLK	PS030323.D	21 May 2025 19:44	AR\AJ	Ok
13	HSTDCCC750	PS030324.D	21 May 2025 20:32	AR\AJ	Ok,M
14	Q2071-01	PS030325.D	21 May 2025 21:45	AR\AJ	Ok,M
15	Q2071-01MS	PS030326.D	21 May 2025 22:09	AR\AJ	Ok,M
16	Q2071-01MSD	PS030327.D	21 May 2025 22:33	AR\AJ	Ok,M
17	Q2071-05	PS030328.D	21 May 2025 22:57	AR\AJ	Ok,M
18	Q2071-09	PS030329.D	21 May 2025 23:21	AR\AJ	Ok,M
19	Q2071-13	PS030330.D	21 May 2025 23:45	AR\AJ	Ok
20	Q2071-17	PS030331.D	22 May 2025 00:09	AR\AJ	Ok,M
21	Q2084-01	PS030332.D	22 May 2025 00:33	AR\AJ	Ok,M

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Fax : 908 789 8922

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QCBatch ID # PS052125

Review By	Abdul	Review On	5/22/2025 8:06:50 AM		
Supervise By	mohammad	Supervise On	5/23/2025 5:17:09 AM		
SubDirectory	PS052125	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	PS030333.D	22 May 2025 00:57	AR\AJ	Ok
23	HSTDCCC750	PS030334.D	22 May 2025 01:45	AR\AJ	Ok,M

M : Manual Integration

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

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QCBatch ID # PS052225

Review By	Abdul	Review On	5/23/2025 8:23:40 AM		
Supervise By	mohammad	Supervise On	5/24/2025 4:23:50 AM		
SubDirectory	PS052225	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	PS030335.D	22 May 2025 08:43	AR\AJ	Ok
2	I.BLK	PS030336.D	22 May 2025 09:07	AR\AJ	Ok
3	HSTDCCC750	PS030337.D	22 May 2025 09:31	AR\AJ	Ok,M
4	Q2080-12	PS030338.D	22 May 2025 09:58	AR\AJ	Ok,M
5	Q2080-06	PS030339.D	22 May 2025 10:22	AR\AJ	Ok,M
6	Q2062-21	PS030340.D	22 May 2025 12:22	AR\AJ	Ok,M
7	Q2080-06MS	PS030341.D	22 May 2025 13:15	AR\AJ	Ok,M
8	Q2080-06MSD	PS030342.D	22 May 2025 13:39	AR\AJ	Ok,M
9	PB168120BL	PS030343.D	22 May 2025 14:03	AR\AJ	Ok,M
10	PB168120BS	PS030344.D	22 May 2025 14:28	AR\AJ	Ok,M
11	PB168067TB	PS030345.D	22 May 2025 14:52	AR\AJ	Ok,M
12	PB168092TB	PS030346.D	22 May 2025 15:16	AR\AJ	Ok,M
13	I.BLK	PS030347.D	22 May 2025 15:40	AR\AJ	Ok
14	HSTDCCC750	PS030348.D	22 May 2025 16:04	AR\AJ	Ok,M
15	Q2084-05	PS030349.D	22 May 2025 16:28	AR\AJ	Ok
16	Q2078-03	PS030350.D	22 May 2025 16:52	AR\AJ	Ok
17	Q2078-07	PS030351.D	22 May 2025 17:16	AR\AJ	Ok,M
18	Q2078-11	PS030352.D	22 May 2025 17:40	AR\AJ	Ok,M
19	Q2078-15	PS030353.D	22 May 2025 18:04	AR\AJ	Ok,M
20	Q2078-19	PS030354.D	22 May 2025 18:28	AR\AJ	Ok,M
21	Q2079-03	PS030355.D	22 May 2025 18:52	AR\AJ	Ok,M

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Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QCBatch ID # PS052225

Review By	Abdul	Review On	5/23/2025 8:23:40 AM		
Supervise By	mohammad	Supervise On	5/24/2025 4:23:50 AM		
SubDirectory	PS052225	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	Q2079-07	PS030356.D	22 May 2025 19:16	AR\AJ	Ok,M
23	Q2079-11	PS030357.D	22 May 2025 19:41	AR\AJ	Ok,M
24	I.BLK	PS030358.D	22 May 2025 20:05	AR\AJ	Ok
25	HSTDCCC750	PS030359.D	22 May 2025 20:29	AR\AJ	Ok,M
26	Q2074-01	PS030360.D	22 May 2025 21:17	AR\AJ	Ok,M
27	Q2074-02	PS030361.D	22 May 2025 21:41	AR\AJ	Ok
28	Q2074-03	PS030362.D	22 May 2025 22:05	AR\AJ	Ok,M
29	Q2074-04	PS030363.D	22 May 2025 22:29	AR\AJ	Ok,M
30	Q2074-05	PS030364.D	22 May 2025 22:53	AR\AJ	Ok
31	Q2074-06	PS030365.D	22 May 2025 23:17	AR\AJ	Ok
32	Q2074-07	PS030366.D	22 May 2025 23:41	AR\AJ	Ok,M
33	Q2074-08	PS030367.D	23 May 2025 00:05	AR\AJ	Ok,M
34	I.BLK	PS030368.D	23 May 2025 00:29	AR\AJ	Ok
35	HSTDCCC750	PS030369.D	23 May 2025 00:54	AR\AJ	Ok,M

M : Manual Integration

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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	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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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 # PS052125

Review By	Abdul	Review On	5/22/2025 8:06:50 AM		
Supervise By	mohammad	Supervise On	5/23/2025 5:17:09 AM		
SubDirectory	PS052125	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	PS030312.D	21 May 2025 09:57		AR\AJ	Ok
2	I.BLK	I.BLK	PS030313.D	21 May 2025 10:21		AR\AJ	Ok
3	HSTDCCC750	HSTDCCC750	PS030314.D	21 May 2025 15:25		AR\AJ	Ok,M
4	PB168097BL	PB168097BL	PS030315.D	21 May 2025 16:32		AR\AJ	Ok
5	PB168097BS	PB168097BS	PS030316.D	21 May 2025 16:56		AR\AJ	Ok,M
6	Q2062-01	L1-WC-1	PS030317.D	21 May 2025 17:20		AR\AJ	Ok,M
7	Q2062-05	L1-WC-2	PS030318.D	21 May 2025 17:44		AR\AJ	Ok,M
8	Q2062-09	L1-WC-3	PS030319.D	21 May 2025 18:08		AR\AJ	Ok,M
9	Q2062-13	L1-WC-4	PS030320.D	21 May 2025 18:32		AR\AJ	Ok,M
10	Q2062-17	L1-WC-5	PS030321.D	21 May 2025 18:56		AR\AJ	Ok,M
11	Q2062-21	L1-WC-6	PS030322.D	21 May 2025 19:20	Surrogate low in both column	AR\AJ	Not Ok
12	I.BLK	I.BLK	PS030323.D	21 May 2025 19:44		AR\AJ	Ok
13	HSTDCCC750	HSTDCCC750	PS030324.D	21 May 2025 20:32		AR\AJ	Ok,M
14	Q2071-01	L1-WC-7	PS030325.D	21 May 2025 21:45		AR\AJ	Ok,M
15	Q2071-01MS	L1-WC-7MS	PS030326.D	21 May 2025 22:09	Comp#3,14 recovery fail	AR\AJ	Ok,M
16	Q2071-01MSD	L1-WC-7MSD	PS030327.D	21 May 2025 22:33	Comp#3,14 recovery fail	AR\AJ	Ok,M
17	Q2071-05	L1-WC-8	PS030328.D	21 May 2025 22:57		AR\AJ	Ok,M
18	Q2071-09	L1-WC-9	PS030329.D	21 May 2025 23:21		AR\AJ	Ok,M

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Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QCBatch ID # PS052125

Review By	Abdul	Review On	5/22/2025 8:06:50 AM		
Supervise By	mohammad	Supervise On	5/23/2025 5:17:09 AM		
SubDirectory	PS052125	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	Q2071-13	L2-WC-5	PS030330.D	21 May 2025 23:45		AR\AJ	Ok
20	Q2071-17	L2-WC-6	PS030331.D	22 May 2025 00:09		AR\AJ	Ok,M
21	Q2084-01	OR-640-COMP-66	PS030332.D	22 May 2025 00:33		AR\AJ	Ok,M
22	I.BLK	I.BLK	PS030333.D	22 May 2025 00:57		AR\AJ	Ok
23	HSTDCCC750	HSTDCCC750	PS030334.D	22 May 2025 01:45		AR\AJ	Ok,M

M : Manual Integration

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Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QCBatch ID # PS052225

Review By	Abdul	Review On	5/23/2025 8:23:40 AM		
Supervise By	mohammad	Supervise On	5/24/2025 4:23:50 AM		
SubDirectory	PS052225	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	PS030335.D	22 May 2025 08:43		AR\AJ	Ok
2	I.BLK	I.BLK	PS030336.D	22 May 2025 09:07		AR\AJ	Ok
3	HSTDCCC750	HSTDCCC750	PS030337.D	22 May 2025 09:31		AR\AJ	Ok,M
4	Q2080-12	PL-HRH-COMP-02	PS030338.D	22 May 2025 09:58		AR\AJ	Ok,M
5	Q2080-06	PL-HRH-COMP-01	PS030339.D	22 May 2025 10:22		AR\AJ	Ok,M
6	Q2062-21	L1-WC-6	PS030340.D	22 May 2025 12:22		AR\AJ	Ok,M
7	Q2080-06MS	PL-HRH-COMP-01MS	PS030341.D	22 May 2025 13:15	Comp #3 Recovery fail	AR\AJ	Ok,M
8	Q2080-06MSD	PL-HRH-COMP-01MSD	PS030342.D	22 May 2025 13:39	Comp #3 Recovery fail	AR\AJ	Ok,M
9	PB168120BL	PB168120BL	PS030343.D	22 May 2025 14:03		AR\AJ	Ok,M
10	PB168120BS	PB168120BS	PS030344.D	22 May 2025 14:28		AR\AJ	Ok,M
11	PB168067TB	PB168067TB	PS030345.D	22 May 2025 14:52		AR\AJ	Ok,M
12	PB168092TB	PB168092TB	PS030346.D	22 May 2025 15:16		AR\AJ	Ok,M
13	I.BLK	I.BLK	PS030347.D	22 May 2025 15:40		AR\AJ	Ok
14	HSTDCCC750	HSTDCCC750	PS030348.D	22 May 2025 16:04		AR\AJ	Ok,M
15	Q2084-05	OR-640-COMP-66	PS030349.D	22 May 2025 16:28		AR\AJ	Ok
16	Q2078-03	WC-A4-04-C	PS030350.D	22 May 2025 16:52		AR\AJ	Ok
17	Q2078-07	WC-A4-05-C	PS030351.D	22 May 2025 17:16		AR\AJ	Ok,M
18	Q2078-11	WC-A1-06A-C	PS030352.D	22 May 2025 17:40		AR\AJ	Ok,M

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Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QCBatch ID # PS052225

Review By	Abdul	Review On	5/23/2025 8:23:40 AM		
Supervise By	mohammad	Supervise On	5/24/2025 4:23:50 AM		
SubDirectory	PS052225	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	Q2078-15	WC-A1-07A-C	PS030353.D	22 May 2025 18:04		AR\AJ	Ok,M
20	Q2078-19	WC-A4-06-C	PS030354.D	22 May 2025 18:28		AR\AJ	Ok,M
21	Q2079-03	WC-A2-01-C	PS030355.D	22 May 2025 18:52		AR\AJ	Ok,M
22	Q2079-07	WC-A2-02-C	PS030356.D	22 May 2025 19:16		AR\AJ	Ok,M
23	Q2079-11	WC-A2-03-C	PS030357.D	22 May 2025 19:41		AR\AJ	Ok,M
24	I.BLK	I.BLK	PS030358.D	22 May 2025 20:05		AR\AJ	Ok
25	HSTDCCC750	HSTDCCC750	PS030359.D	22 May 2025 20:29		AR\AJ	Ok,M
26	Q2074-01	TP-12	PS030360.D	22 May 2025 21:17		AR\AJ	Ok,M
27	Q2074-02	TP-7	PS030361.D	22 May 2025 21:41		AR\AJ	Ok
28	Q2074-03	TP-15	PS030362.D	22 May 2025 22:05		AR\AJ	Ok,M
29	Q2074-04	TP-20	PS030363.D	22 May 2025 22:29		AR\AJ	Ok,M
30	Q2074-05	TP-38	PS030364.D	22 May 2025 22:53		AR\AJ	Ok
31	Q2074-06	TP-19	PS030365.D	22 May 2025 23:17		AR\AJ	Ok
32	Q2074-07	TP-40	PS030366.D	22 May 2025 23:41		AR\AJ	Ok,M
33	Q2074-08	TP-18	PS030367.D	23 May 2025 00:05		AR\AJ	Ok,M
34	I.BLK	I.BLK	PS030368.D	23 May 2025 00:29		AR\AJ	Ok
35	HSTDCCC750	HSTDCCC750	PS030369.D	23 May 2025 00:54		AR\AJ	Ok,M

M : Manual Integration

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EXTRACTION LOGPAGE

PB168097

SOP ID:	M8151A-Herbicide-22				
Clean Up SOP #:	N/A			**Extraction Start Date :**	05/21/2025
Matrix :	Solid			**Extraction Start Time :**	08:30
Weigh By:	EH	**Extraction By:**	RJ	**Extraction End Date :**	05/21/2025
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	E3930
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	E3934
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
5/21/25	RS (Ext-Lab)	R. Peak / PCB Lab
16:05	**Preparation Group**	**Analysis Group**

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EXTRACTION LOGPAGE

PrepBatch ID : PB168097

Analytical Method: M8151A-Herbicide-22 **Concentration Date:** 05/21/2025

Sample ID	Client Sample ID	Test	g/mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB168097BL	HBLK097	Herbicide	30.01	N/A	ritesh	Evelyn	10			U2-1
PB168097BS	HLCS097	Herbicide	30.02	N/A	ritesh	Evelyn	10			2
Q2062-01	L1-WC-1	Herbicide	30.07	N/A	ritesh	Evelyn	10	E		3
Q2062-05	L1-WC-2	Herbicide	30.03	N/A	ritesh	Evelyn	10	E		4
Q2062-09	L1-WC-3	Herbicide	30.02	N/A	ritesh	Evelyn	10	D		5
Q2062-13	L1-WC-4	Herbicide	30.05	N/A	ritesh	Evelyn	10	E		6
Q2062-17	L1-WC-5	Herbicide	30.08	N/A	ritesh	Evelyn	10	E		U3-1
Q2062-21	L1-WC-6	Herbicide	30.03	N/A	ritesh	Evelyn	10	E		2
Q2071-01	L1-WC-7	Herbicide	30.04	N/A	ritesh	Evelyn	10	D		3
Q2071-01MS	L1-WC-7MS	Herbicide	30.01	N/A	ritesh	Evelyn	10	D		4
Q2071-01MSD	L1-WC-7MSD	Herbicide	30.03	N/A	ritesh	Evelyn	10	D		5
Q2071-05	L1-WC-8	Herbicide	30.05	N/A	ritesh	Evelyn	10	D		6
Q2071-09	L1-WC-9	Herbicide	30.08	N/A	ritesh	Evelyn	10	D		U6-1
Q2071-13	L2-WC-5	Herbicide	30.02	N/A	ritesh	Evelyn	10	B		2
Q2071-17	L2-WC-6	Herbicide	30.04	N/A	ritesh	Evelyn	10	D		3
Q2074-01	TP-12	Herbicide	30.06	N/A	ritesh	Evelyn	10	E		4
Q2074-02	TP-7	Herbicide	30.03	N/A	ritesh	Evelyn	10	E		5
Q2074-03	TP-15	Herbicide	30.05	N/A	ritesh	Evelyn	10	E		6
Q2074-04	TP-20	Herbicide	30.07	N/A	ritesh	Evelyn	10	E		U1-1
Q2074-05	TP-38	Herbicide	30.06	N/A	ritesh	Evelyn	10	E		2
Q2074-06	TP-19	Herbicide	30.04	N/A	ritesh	Evelyn	10	E		3
Q2074-07	TP-40	Herbicide	30.02	N/A	ritesh	Evelyn	10	E		4
Q2074-08	TP-18	Herbicide	30.06	N/A	ritesh	Evelyn	10	E		5
Q2084-01	OR-640-COMP-66	Herbicide	30.01	N/A	ritesh	Evelyn	10	E		6

RS 5/21

* **Extracts relinquished on the same date as received.**

Q2074 Q1680 8:30

WORKLIST(Hardcopy Internal Chain)

WorkList Name : Q2062H **WorkList ID :** 189659 **Department :** Extraction **Date :** 05-21-2025 08:25:22

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2062-01	L1-WC-1	Solid	Herbicide	Cool 4 deg C	PSEG03	L41	05/15/2025	8151A
Q2062-05	L1-WC-2	Solid	Herbicide	Cool 4 deg C	PSEG03	L41	05/15/2025	8151A
Q2062-09	L1-WC-3	Solid	Herbicide	Cool 4 deg C	PSEG03	L41	05/15/2025	8151A
Q2062-13	L1-WC-4	Solid	Herbicide	Cool 4 deg C	PSEG03	L41	05/15/2025	8151A
Q2062-17	L1-WC-5	Solid	Herbicide	Cool 4 deg C	PSEG03	L41	05/15/2025	8151A
Q2062-21	L1-WC-6	Solid	Herbicide	Cool 4 deg C	PSEG03	L41	05/15/2025	8151A
Q2071-01	L1-WC-7	Solid	Herbicide	Cool 4 deg C	PSEG03	L41	05/15/2025	8151A
Q2071-05	L1-WC-8	Solid	Herbicide	Cool 4 deg C	PSEG03	L41	05/16/2025	8151A
Q2071-09	L1-WC-9	Solid	Herbicide	Cool 4 deg C	PSEG03	L41	05/16/2025	8151A
Q2071-13	L2-WC-5	Solid	Herbicide	Cool 4 deg C	PSEG03	L41	05/16/2025	8151A
Q2071-17	L2-WC-6	Solid	Herbicide	Cool 4 deg C	PSEG03	L41	05/16/2025	8151A
Q2074-01	TP-12	Solid	Herbicide	Cool 4 deg C	PSEG03	L41	05/16/2025	8151A
Q2074-02	TP-7	Solid	Herbicide	Cool 4 deg C	CAMP02	L31	05/15/2025	8151A
Q2074-03	TP-15	Solid	Herbicide	Cool 4 deg C	CAMP02	L31	05/15/2025	8151A
Q2074-04	TP-20	Solid	Herbicide	Cool 4 deg C	CAMP02	L31	05/15/2025	8151A
Q2074-05	TP-38	Solid	Herbicide	Cool 4 deg C	CAMP02	L31	05/15/2025	8151A
Q2074-06	TP-19	Solid	Herbicide	Cool 4 deg C	CAMP02	L31	05/15/2025	8151A
Q2074-07	TP-40	Solid	Herbicide	Cool 4 deg C	CAMP02	L31	05/15/2025	8151A
Q2074-08	TP-18	Solid	Herbicide	Cool 4 deg C	CAMP02	L31	05/15/2025	8151A
Q2084-01	OR-640-COMP-66	Solid	Herbicide	Cool 4 deg C	PSEG03	L41	05/19/2025	8151A

925 of 1178

Date/Time 05/21/25 8:25
Raw Sample Received by: RJ (EXT-lab)
Raw Sample Relinquished by:

Date/Time 05/21/25 9:00
Raw Sample Received by:
Raw Sample Relinquished by: RJ (EXT-lab)

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LAB CHRONICLE

OrderID:	Q2074	**OrderDate:**	5/16/2025 3:13:00 PM
Client:	CDM Smith	**Project:**	South River WM Replacement
Contact:	Marcie Ann Encinas	**Location:**	L31,VOA Ref. #2 Soil

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2074-01	**TP-12**	**SOIL**			**05/15/25**			**05/16/25**
			Diesel Range Organics	8015D		05/20/25	05/21/25	
			Herbicide	8151A		05/21/25	05/22/25	
			PCB	8082A		05/20/25	05/20/25	
			Pesticide-TCL	8081B		05/20/25	05/20/25	
			Gasoline Range Organics	8015D			05/20/25	
Q2074-02	**TP-7**	**SOIL**			**05/15/25**			**05/16/25**
			Diesel Range Organics	8015D		05/20/25	05/21/25	
			Herbicide	8151A		05/21/25	05/22/25	
			PCB	8082A		05/20/25	05/20/25	
			Pesticide-TCL	8081B		05/20/25	05/20/25	
			Gasoline Range Organics	8015D			05/20/25	
Q2074-03	**TP-15**	**SOIL**			**05/15/25**			**05/16/25**
			Diesel Range Organics	8015D		05/20/25	05/21/25	
			Herbicide	8151A		05/21/25	05/22/25	
			PCB	8082A		05/20/25	05/20/25	
			Pesticide-TCL	8081B		05/20/25	05/20/25	
			Gasoline Range Organics	8015D			05/20/25	
Q2074-04	**TP-20**	**SOIL**			**05/15/25**			**05/16/25**
			Diesel Range Organics	8015D		05/20/25	05/21/25	
			Herbicide	8151A		05/21/25	05/22/25	
			PCB	8082A		05/20/25	05/20/25	
			Pesticide-TCL	8081B		05/20/25	05/20/25	
			Gasoline Range Organics	8015D			05/20/25	
Q2074-05	**TP-38**	**SOIL**			**05/15/25**			**05/16/25**
			Diesel Range Organics	8015D		05/20/25	05/21/25	
			Herbicide	8151A		05/21/25	05/22/25	

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LAB CHRONICLE

			PCB	8082A		05/20/25	05/20/25
			Pesticide-TCL	8081B		05/20/25	05/20/25
Q2074-06	**TP-19**	**SOIL**			**05/15/25**		**05/16/25**
			Diesel Range Organics	8015D		05/20/25	05/21/25
			Herbicide	8151A		05/21/25	05/22/25
			PCB	8082A		05/20/25	05/20/25
			Pesticide-TCL	8081B		05/20/25	05/20/25
			Gasoline Range Organics	8015D			05/20/25
Q2074-07	**TP-40**	**SOIL**			**05/15/25**		**05/16/25**
			Diesel Range Organics	8015D		05/20/25	05/21/25
			Herbicide	8151A		05/21/25	05/22/25
			PCB	8082A		05/20/25	05/20/25
			Pesticide-TCL	8081B		05/20/25	05/20/25
Q2074-08	**TP-18**	**SOIL**			**05/16/25**		**05/16/25**
			Diesel Range Organics	8015D		05/20/25	05/21/25
			Herbicide	8151A		05/21/25	05/23/25
			PCB	8082A		05/20/25	05/20/25
			Pesticide-TCL	8081B		05/20/25	05/20/25

SAMPLE DATA

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Report of Analysis

Client:	CDM Smith	Date Collected:	05/15/25
Project:	South River WM Replacement	Date Received:	05/16/25
Client Sample ID:	TP-12	SDG No.:	Q2074
Lab Sample ID:	Q2074-01	Matrix:	SOIL
Analytical Method:	8015D DRO	% Solid:	83.5 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
FG015879.D	1	05/20/25 10:15	05/21/25 17:09	PB168084

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	28000		202	2000	ug/kg
SURROGATES						
16416-32-3	Tetracosane-d50	14.9		37 - 130	74%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	CDM Smith	Date Collected:	05/15/25
Project:	South River WM Replacement	Date Received:	05/16/25
Client Sample ID:	TP-7	SDG No.:	Q2074
Lab Sample ID:	Q2074-02	Matrix:	SOIL
Analytical Method:	8015D DRO	% Solid:	88.7 Decanted:
Sample Wt/Vol:	30.06 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
FG015880.D	1	05/20/25 10:15	05/21/25 17:38	PB168084

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	1650	J	190	1880	ug/kg
SURROGATES						
16416-32-3	Tetracosane-d50	20.0		37 - 130	100%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
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N = Presumptive Evidence of a Compound
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D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	CDM Smith	Date Collected:	05/15/25
Project:	South River WM Replacement	Date Received:	05/16/25
Client Sample ID:	TP-15	SDG No.:	Q2074
Lab Sample ID:	Q2074-03	Matrix:	SOIL
Analytical Method:	8015D DRO	% Solid:	87 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
FG015881.D	1	05/20/25 10:15	05/21/25 18:07	PB168084

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	4050		194	1910	ug/kg
SURROGATES						
16416-32-3	Tetracosane-d50	12.8		37 - 130	64%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
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() = Laboratory InHouse Limit

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Report of Analysis

Client:	CDM Smith	Date Collected:	05/15/25
Project:	South River WM Replacement	Date Received:	05/16/25
Client Sample ID:	TP-20	SDG No.:	Q2074
Lab Sample ID:	Q2074-04	Matrix:	SOIL
Analytical Method:	8015D DRO	% Solid:	84.3 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
FF015883.D	1	05/20/25 10:15	05/21/25 14:43	PB168084

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	2000		200	1970	ug/kg
SURROGATES						
16416-32-3	Tetracosane-d50	11.0		37 - 130	55%	SPK: 20

Comments:

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LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
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Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

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:	05/15/25
Project:	South River WM Replacement	Date Received:	05/16/25
Client Sample ID:	TP-38	SDG No.:	Q2074
Lab Sample ID:	Q2074-05	Matrix:	SOIL
Analytical Method:	8015D DRO	% Solid:	81.9 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
FF015884.D	1	05/20/25 10:15	05/21/25 15:12	PB168084

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	8140		206	2030	ug/kg
SURROGATES						
16416-32-3	Tetracosane-d50	13.6		37 - 130	68%	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:	05/15/25
Project:	South River WM Replacement	Date Received:	05/16/25
Client Sample ID:	TP-19	SDG No.:	Q2074
Lab Sample ID:	Q2074-06	Matrix:	SOIL
Analytical Method:	8015D DRO	% Solid:	85.9 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
FF015885.D	1	05/20/25 10:15	05/21/25 15:41	PB168084

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	6820		197	1940	ug/kg
SURROGATES						
16416-32-3	Tetracosane-d50	11.4		37 - 130	57%	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:	05/15/25
Project:	South River WM Replacement	Date Received:	05/16/25
Client Sample ID:	TP-40	SDG No.:	Q2074
Lab Sample ID:	Q2074-07	Matrix:	SOIL
Analytical Method:	8015D DRO	% Solid:	89.2 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
FF015886.D	1	05/20/25 10:15	05/21/25 16:10	PB168084

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	3190		189	1860	ug/kg
SURROGATES						
16416-32-3	Tetracosane-d50	11.4		37 - 130	57%	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:	05/16/25
Project:	South River WM Replacement	Date Received:	05/16/25
Client Sample ID:	TP-18	SDG No.:	Q2074
Lab Sample ID:	Q2074-08	Matrix:	SOIL
Analytical Method:	8015D DRO	% Solid:	78 Decanted:
Sample Wt/Vol:	30.07 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
FF015887.D	1	05/20/25 10:15	05/21/25 16:40	PB168084

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	1760	J	216	2130	ug/kg
SURROGATES						
16416-32-3	Tetracosane-d50	10.7		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

QC SUMMARY

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SOIL DIESEL RANGE ORGANICS SURROGATE RECOVERY

Lab Name: Chemtech Client: CDM Smith

Lab Code: CHEM Case No.: Q2074 SAS No.: Q2074 SDG No.: Q2074

EPA SAMPLE NO.	S1 TETRACOSANE-d50	S2	S3	S4	TOT OUT
PIBLK-FF015880.D	88				0
PIBLK-FF015888.D	81				0
PIBLK-FG015864.D	90				0
PIBLK-FG015875.D	88				0
PIBLK-FG015882.D	91				0
PB168084BL	90				0
PB168084BS	103				0
TP-24MS	66				0
TP-24MSD	67				0
TP-12	74				0
TP-7	100				0
TP-15	64				0
TP-20	55				0
TP-38	68				0
TP-19	57				0
TP-40	57				0
TP-18	54				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:** Q2074 **SAS No :** Q2074 **SDG No:** Q2074

Client SampleID : TP-24MS **Datafile:** FG015873.D

COMPOUND	SPIKE ADDED ug/kg	SAMPLE CONCENTRATION ug/kg	MS/MSD CONCENTRATION ug/kg	% REC	Qual	QC LIMITS
DRO	8961	0	13809	154%	*	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:** Q2074 **SAS No :** Q2074 **SDG No:** Q2074

Client SampleID : TP-24MSD **Datafile:** FG015874.D

COMPOUND	SPIKE ADDED ug/kg	SAMPLE CONCENTRATION ug/kg	MS/MSD CONCENTRATION ug/kg	% REC	Qual	QC LIMITS
DRO	8976	0	14151	158%	*	68-131

MS/MSD % Recovery RPD : 2.3

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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:** Q2074 **SAS No :** Q2074 **SDG No:** Q2074

Matrix Spike - EPA Sample No : PB168084BS **Datafile:** FG015868.D

COMPOUND	SPIKE ADDED ug/kg	CONCENTRATION ug/kg	LCS/LCSD CONCENTRATION ug/kg	% REC	QC LIMITS
DRO	6660	0	6529	98	68-131

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4B
METHOD BLANK SUMMARY

EPA SAMPLE NO.
PB168084BL

Lab Name: CHEMTECH Contract: CAMP02

Lab Code: CHEM Case No.: Q2074 SAS No.: Q2074 SDG NO.: Q2074

Lab File ID: FG015867.D Lab Sample ID: PB168084BL

Instrument ID: FG Date Extracted: 05/21/2025

Matrix: (soil/water) Soil Date Analyzed: 05/21/25

Level: (low/med) low Time Analyzed: 11:18

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
TP-20	Q2074-04	FF015883.D	05/21/25
TP-38	Q2074-05	FF015884.D	05/21/25
TP-19	Q2074-06	FF015885.D	05/21/25
TP-40	Q2074-07	FF015886.D	05/21/25
TP-18	Q2074-08	FF015887.D	05/21/25
PB168084BS	PB168084BS	FG015868.D	05/21/25
TP-24MS	Q2032-05MS	FG015873.D	05/21/25
TP-24MSD	Q2032-06MSD	FG015874.D	05/21/25
TP-12	Q2074-01	FG015879.D	05/21/25
TP-7	Q2074-02	FG015880.D	05/21/25
TP-15	Q2074-03	FG015881.D	05/21/25

COMMENTS:

QC SAMPLE DATA

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Fax : 908 789 8922

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	PB168084BL	SDG No.:	Q2074
Lab Sample ID:	PB168084BL	Matrix:	SOIL
Analytical Method:	8015D DRO	% Solid:	100 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
FG015867.D	1	05/20/25 10:15	05/21/25 11:18	PB168084

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	18.0		37 - 130	90%	SPK: 20

Comments:

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

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:	05/21/25
Project:	South River WM Replacement	Date Received:	05/21/25
Client Sample ID:	PIBLK-FF015880.D	SDG No.:	Q2074
Lab Sample ID:	I.BLK-FF015880.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
FF015880.D	1		05/21/25	FF052125

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	17.6		29 - 130	88%	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:	05/21/25
Project:	South River WM Replacement	Date Received:	05/21/25
Client Sample ID:	PIBLK-FF015888.D	SDG No.:	Q2074
Lab Sample ID:	I.BLK-FF015888.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
FF015888.D	1		05/21/25	FF052125

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	16.2		29 - 130	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

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Report of Analysis

Client:	CDM Smith	Date Collected:	05/21/25
Project:	South River WM Replacement	Date Received:	05/21/25
Client Sample ID:	PIBLK-FG015864.D	SDG No.:	Q2074
Lab Sample ID:	I.BLK-FG015864.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
FG015864.D	1		05/21/25	FG052125

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:	05/21/25
Project:	South River WM Replacement	Date Received:	05/21/25
Client Sample ID:	PIBLK-FG015875.D	SDG No.:	Q2074
Lab Sample ID:	I.BLK-FG015875.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
FG015875.D	1		05/21/25	FG052125

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	17.5		29 - 130	88%	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:	05/21/25
Project:	South River WM Replacement	Date Received:	05/21/25
Client Sample ID:	PIBLK-FG015882.D	SDG No.:	Q2074
Lab Sample ID:	I.BLK-FG015882.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
FG015882.D	1		05/21/25	FG052125

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	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:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	PB168084BS	SDG No.:	Q2074
Lab Sample ID:	PB168084BS	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
FG015868.D	1	05/20/25 10:15	05/21/25 11:47	PB168084

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	6530		169	1670	ug/kg
SURROGATES						
16416-32-3	Tetracosane-d50	20.6		37 - 130	103%	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:	05/13/25
Project:	South River WM Replacement	Date Received:	05/13/25
Client Sample ID:	TP-24MS	SDG No.:	Q2074
Lab Sample ID:	Q2032-05MS	Matrix:	SOIL
Analytical Method:	8015D DRO	% Solid:	74.2 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
FG015873.D	1	05/20/25 10:15	05/21/25 14:13	PB168084

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	13800		227	2240	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:	05/13/25
Project:	South River WM Replacement	Date Received:	05/13/25
Client Sample ID:	TP-24MSD	SDG No.:	Q2074
Lab Sample ID:	Q2032-06MSD	Matrix:	SOIL
Analytical Method:	8015D DRO	% Solid:	74.2 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
FG015874.D	1	05/20/25 10:15	05/21/25 14:43	PB168084

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	14200		228	2240	ug/kg
SURROGATES						
16416-32-3	Tetracosane-d50	13.4		37 - 130	67%	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.: Q2074 SAS No.: Q2074 SDG No.: Q2074

Calibration Sequence : FF052125		Test : Diesel Range Organics	
Concentration (PPM)	**Area Count**	**Reference Factor**	**File ID**
1000	131501360	131501	FF015874.D
500	66823160	133646	FF015875.D
200	25639665	128198	FF015876.D
100	14440283	144403	FF015877.D
50	6491363	129827	FF015878.D

AVG RF : 133515 **% RSD : 4.803** **AVG RT : 15.0206**

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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.: Q2074 SAS No.: Q2074 SDG No.: Q2074

Calibration Sequence : FG042425		Test : Diesel Range Organics	
Concentration (PPM)	**Area Count**	**Reference Factor**	**File ID**
1000	122641169	122641	FG015756.D
500	64139521	128279	FG015757.D
200	25210755	126054	FG015758.D
100	13317775	133178	FG015759.D
50	6223650	124473	FG015760.D

AVG RF : 126925 **% RSD : 3.202** **AVG RT : 15.0012**

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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.: Q2074 SAS No.: Q2074 SDG No.: Q2074

DataFile: FF015881.D Analyst Name: YP\AJ Analyst Date: 05-21-2025

Conc. (PPM)	Area Count	RF	Average RF	%D
500	62268329	124537	133515	6.724

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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.: Q2074 SAS No.: Q2074 SDG No.: Q2074

DataFile: FF015889.D Analyst Name: YP\AJ Analyst Date: 05-21-2025

Conc. (PPM)	Area Count	RF	Average RF	%D
500	64753514	129507	133515	3.002

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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.: Q2074 SAS No.: Q2074 SDG No.: Q2074

DataFile: FG015865.D Analyst Name: YP\AJ Analyst Date: 05-21-2025

Conc. (PPM)	Area Count	RF	Average RF	%D
500	70332673	140665	126925	10.825

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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.: Q2074 SAS No.: Q2074 SDG No.: Q2074

DataFile: FG015876.D Analyst Name: YP\AJ Analyst Date: 05-21-2025

Conc. (PPM)	Area Count	RF	Average RF	%D
500	56919649	113839	126925	10.31

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Fax : 908 789 8922

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.: Q2074 SAS No.: Q2074 SDG No.: Q2074

DataFile: FG015883.D Analyst Name: YP\AJ Analyst Date: 05-21-2025

Conc. (PPM)	Area Count	RF	Average RF	%D
500	64219295	128439	126925	1.193

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Analytical Sequence

Client: CDM Smith **SDG No.:** Q2074

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 **15.0206**

EPA SAMPLE NO.	LAB SAMPLE ID	DATE AND TIME ANALYZED	DATAFILE	RT	#
PIBLK01	I.BLK01	21 May 2025 13:15	FF015880.D	15.024	
50 PPM TRPH STD	50 PPM TRPH STD	21 May 2025 13:44	FF015881.D	15.020	
TP-20	Q2074-04	21 May 2025 14:43	FF015883.D	15.018	
TP-38	Q2074-05	21 May 2025 15:12	FF015884.D	15.019	
TP-19	Q2074-06	21 May 2025 15:41	FF015885.D	15.018	
TP-40	Q2074-07	21 May 2025 16:10	FF015886.D	15.017	
TP-18	Q2074-08	21 May 2025 16:40	FF015887.D	15.016	
PIBLK02	I.BLK02	21 May 2025 17:09	FF015888.D	15.020	
50 PPM TRPH STD	50 PPM TRPH STD	21 May 2025 17:38	FF015889.D	15.020	
PIBLK03	I.BLK03	21 May 2025 09:50	FG015864.D	14.985	
50 PPM TRPH STD	50 PPM TRPH STD	21 May 2025 10:19	FG015865.D	14.987	
PB168084BL	PB168084BL	21 May 2025 11:18	FG015867.D	14.985	
PB168084BS	PB168084BS	21 May 2025 11:47	FG015868.D	14.984	
TP-24MS	Q2032-05MS	21 May 2025 14:13	FG015873.D	14.930	
TP-24MSD	Q2032-06MSD	21 May 2025 14:43	FG015874.D	14.984	
PIBLK04	I.BLK04	21 May 2025 15:12	FG015875.D	14.984	
50 PPM TRPH STD	50 PPM TRPH STD	21 May 2025 15:41	FG015876.D	14.986	
TP-12	Q2074-01	21 May 2025 17:09	FG015879.D	14.941	
TP-7	Q2074-02	21 May 2025 17:38	FG015880.D	14.984	
TP-15	Q2074-03	21 May 2025 18:07	FG015881.D	14.984	
PIBLK05	I.BLK05	21 May 2025 18:37	FG015882.D	14.984	
50 PPM TRPH STD	50 PPM TRPH STD	21 May 2025 19:06	FG015883.D	14.987	

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

QC Limits	Lower Limit	Upper Limits
(± 0.10 minutes)	14.9012	15.1012

SAMPLE RAW DATA

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG052125\
Data File : FG015879.D
Signal(s) : FID1A.ch
Acq On : 21 May 2025 17:09
Operator : YP\AJ
Sample : Q2074-01
Misc :
ALS Vial : 31 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
TP-12

Integration File: autoint1.e
Quant Time: May 22 00:42:17 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG042425.M
Quant Title :
QLast Update : Thu Apr 24 12:54:09 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...	14.984	1753180	14.891 ug/ml
Target Compounds			

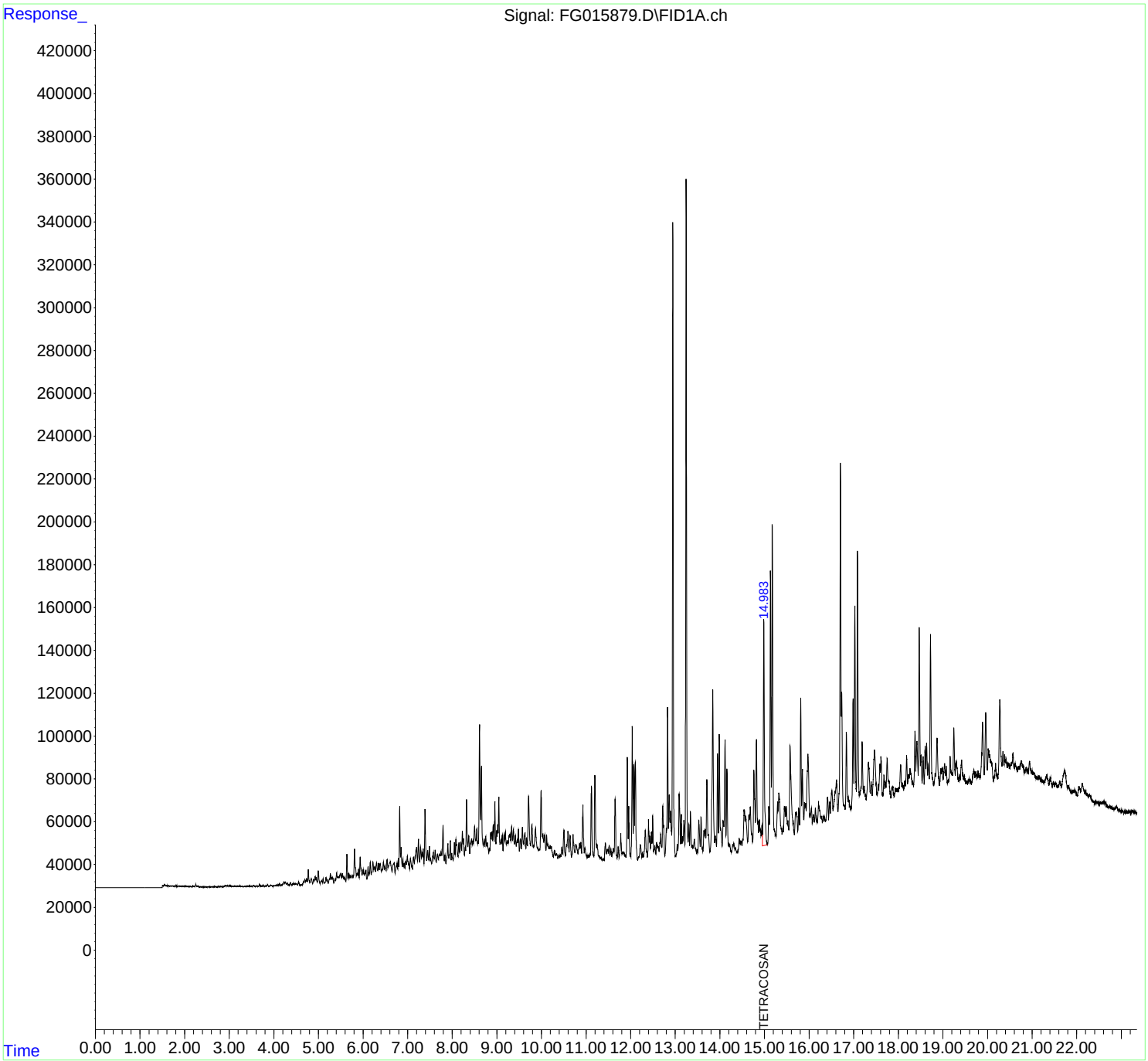
(f)=RT Delta > 1/2 Window (m)=manual int.

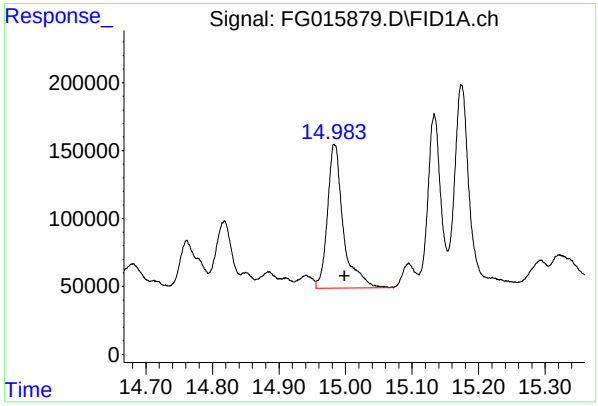
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG052125\
Data File : FG015879.D
Signal(s) : FID1A.ch
Acq On : 21 May 2025 17:09
Operator : YP\AJ
Sample : Q2074-01
Misc :
ALS Vial : 31 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
TP-12

Integration File: autoint1.e
Quant Time: May 22 00:42:17 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG042425.M
Quant Title :
QLast Update : Thu Apr 24 12:54:09 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.: 14.984 min
Delta R.T.: -0.015 mi
Response: 1753180
Conc: 14.89 ug/m

Instrument :
FID_G
ClientSampleId :
TP-12

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG052125\
Data File : FG015879.D
Signal(s) : FID1A.ch
Acq On : 21 May 2025 17:09
Sample : Q2074-01
Misc :
ALS Vial : 31 Sample Multiplier: 1

Integration File: Sample.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG042425.M
Title :

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.377	4.329	4.408	BV	1187	16025	0.42%	0.018%
2	4.435	4.408	4.453	PV	868	15228	0.40%	0.017%
3	4.466	4.453	4.473	VV	613	6059	0.16%	0.007%
4	4.498	4.473	4.534	VV	774	20373	0.53%	0.022%
5	4.556	4.534	4.604	VV	1397	23121	0.60%	0.025%
6	4.616	4.604	4.625	PV	364	3012	0.08%	0.003%
7	4.634	4.625	4.643	VV	445	3916	0.10%	0.004%
8	4.665	4.643	4.680	VV	1648	24319	0.63%	0.027%
9	4.698	4.680	4.714	VV	2776	40615	1.05%	0.045%
10	4.738	4.714	4.754	VV	2955	54717	1.42%	0.060%
11	4.773	4.754	4.810	VV	7195	107828	2.80%	0.119%
12	4.836	4.810	4.870	VV	2755	67156	1.74%	0.074%
13	4.892	4.870	4.900	VV	2251	27988	0.73%	0.031%
14	4.908	4.900	4.913	VV	2129	16082	0.42%	0.018%
15	4.926	4.913	4.942	VV	3823	50306	1.31%	0.055%
16	4.953	4.942	4.972	VV	3213	39326	1.02%	0.043%
17	4.997	4.972	5.037	VV	6304	100671	2.61%	0.111%
18	5.072	5.037	5.088	VV	1728	36112	0.94%	0.040%
19	5.105	5.088	5.130	VV	2495	29961	0.78%	0.033%
20	5.170	5.130	5.187	VV	3025	47215	1.23%	0.052%
21	5.200	5.187	5.222	VV	1908	23088	0.60%	0.025%
22	5.244	5.222	5.253	VV	2115	24547	0.64%	0.027%
23	5.269	5.253	5.282	VV	4676	55549	1.44%	0.061%
24	5.290	5.282	5.302	VV	2942	30134	0.78%	0.033%
25	5.315	5.302	5.344	VV	2604	47667	1.24%	0.052%
26	5.376	5.344	5.389	PV	2134	34880	0.91%	0.038%
27	5.409	5.389	5.424	VV	4825	67042	1.74%	0.074%
28	5.434	5.424	5.442	VV	2916	29852	0.77%	0.033%
29	5.455	5.442	5.459	VV	2592	25113	0.65%	0.028%
30	5.471	5.459	5.480	VV	3351	37089	0.96%	0.041%
31	5.491	5.480	5.520	VV	4401	84078	2.18%	0.092%
32	5.535	5.520	5.560	VV	4249	77755	2.02%	0.086%
33	5.569	5.560	5.583	VV	2559	30145	0.78%	0.033%
34	5.595	5.583	5.614	VV	2062	25253	0.66%	0.028%
35	5.640	5.614	5.661	VV	13126	161271	4.19%	0.177%
36	5.674	5.661	5.694	VV	4102	56645	1.47%	0.062%

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37	5.707	5.694	5.738	VV	3324	65218	1.69%	0.072%
38	5.757	5.738	5.772	VV	3330	54353	1.41%	0.060%
39	5.785	5.772	5.790	VV	2911	27213	0.71%	0.030%
40	5.809	5.790	5.851	VV	15230	279877	7.26%	0.308%
41	5.863	5.851	5.880	VV	3733	56690	1.47%	0.062%
42	5.897	5.880	5.915	VV	5641	77960	2.02%	0.086%
43	5.936	5.915	5.979	VV	11313	227375	5.90%	0.250%
44	6.003	5.979	6.032	VV	5394	119972	3.11%	0.132%
45	6.044	6.032	6.054	VV	4272	50714	1.32%	0.056%
46	6.065	6.054	6.087	VV	4917	61799	1.60%	0.068%
47	6.114	6.087	6.130	VV	6687	87016	2.26%	0.096%
48	6.137	6.130	6.146	VV	3417	30227	0.78%	0.033%
49	6.162	6.146	6.184	VV	8612	129386	3.36%	0.142%
50	6.197	6.184	6.203	VV	3878	39797	1.03%	0.044%
51	6.222	6.203	6.244	VV	8669	162935	4.23%	0.179%
52	6.264	6.244	6.281	VV	6472	123720	3.21%	0.136%
53	6.304	6.281	6.332	VV	8141	183285	4.76%	0.202%
54	6.349	6.332	6.364	VV	7879	118055	3.06%	0.130%
55	6.384	6.364	6.409	VV	7547	164449	4.27%	0.181%
56	6.457	6.409	6.478	VV	8249	228941	5.94%	0.252%
57	6.492	6.478	6.519	VV	6374	131076	3.40%	0.144%
58	6.539	6.519	6.563	VV	9185	176133	4.57%	0.194%
59	6.611	6.563	6.651	VV	8001	339501	8.81%	0.373%
60	6.683	6.651	6.691	VV	6860	137735	3.57%	0.152%
61	6.700	6.691	6.719	VV	7528	94490	2.45%	0.104%
62	6.764	6.719	6.777	VV	7274	182657	4.74%	0.201%
63	6.792	6.777	6.803	VV	9362	109328	2.84%	0.120%
64	6.823	6.803	6.842	VV	33704	438656	11.38%	0.483%
65	6.854	6.842	6.881	VV	14379	233422	6.06%	0.257%
66	6.895	6.881	6.909	VV	8860	114966	2.98%	0.126%
67	6.924	6.909	6.939	VV	6799	106836	2.77%	0.118%
68	6.956	6.939	6.969	VV	7718	115391	2.99%	0.127%
69	6.994	6.969	7.023	VV	10115	246350	6.39%	0.271%
70	7.029	7.023	7.045	VV	6378	71851	1.86%	0.079%
71	7.064	7.045	7.108	VV	8955	238788	6.20%	0.263%
72	7.131	7.108	7.153	VV	9425	193720	5.03%	0.213%
73	7.168	7.153	7.173	VV	9715	105838	2.75%	0.116%
74	7.202	7.173	7.222	VV	13979	324349	8.42%	0.357%
75	7.244	7.222	7.271	VV	17700	329146	8.54%	0.362%
76	7.292	7.271	7.312	VV	13928	261994	6.80%	0.288%
77	7.326	7.312	7.338	VV	11213	156798	4.07%	0.172%
78	7.350	7.338	7.367	VV	12846	179043	4.65%	0.197%
79	7.391	7.367	7.428	VV	31124	554324	14.38%	0.610%
80	7.451	7.428	7.473	VV	12059	254805	6.61%	0.280%
81	7.490	7.473	7.508	VV	13925	218003	5.66%	0.240%
82	7.518	7.508	7.542	VV	8102	143739	3.73%	0.158%
83	7.575	7.542	7.596	VV	10922	279257	7.25%	0.307%
84	7.619	7.596	7.642	VV	12047	245647	6.37%	0.270%
85	7.670	7.642	7.693	VV	9915	248424	6.45%	0.273%
86	7.708	7.693	7.722	VV	9953	158241	4.11%	0.174%
87	7.726	7.722	7.734	VV	9430	69213	1.80%	0.076%
88	7.749	7.734	7.769	VV	11098	206076	5.35%	0.227%
89	7.795	7.769	7.823	VV	23281	446628	11.59%	0.491%

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90	7.839	7.823	7.858	VV	9289	157600	4.09%	0.173%
91	7.903	7.858	7.923	VV	14511	357039	9.27%	0.393%
92	7.958	7.923	7.976	VV	15828	333894	8.66%	0.367%
93	7.990	7.976	8.020	VV	9812	211932	5.50%	0.233%
94	8.050	8.020	8.064	VV	14844	269153	6.98%	0.296%
95	8.083	8.064	8.096	VV	16243	255476	6.63%	0.281%
96	8.103	8.096	8.125	VV	13977	200767	5.21%	0.221%
97	8.151	8.125	8.167	VV	14522	282299	7.33%	0.311%
98	8.194	8.167	8.213	VV	14830	341896	8.87%	0.376%
99	8.229	8.213	8.243	VV	19871	294399	7.64%	0.324%
100	8.253	8.243	8.274	VV	16378	234420	6.08%	0.258%
101	8.293	8.274	8.303	VV	12179	188330	4.89%	0.207%
102	8.322	8.303	8.349	VV	34429	572751	14.86%	0.630%
103	8.370	8.349	8.394	VV	17332	370483	9.61%	0.408%
104	8.412	8.394	8.419	VV	14255	181124	4.70%	0.199%
105	8.434	8.419	8.450	VV	15746	270653	7.02%	0.298%
106	8.464	8.450	8.477	VV	14845	223763	5.81%	0.246%
107	8.502	8.477	8.529	VV	21663	544059	14.12%	0.598%
108	8.551	8.529	8.568	VV	20456	396955	10.30%	0.437%
109	8.577	8.568	8.586	VV	14674	148064	3.84%	0.163%
110	8.613	8.586	8.638	VV	68921	1178621	30.59%	1.297%
111	8.657	8.638	8.700	VV	49616	940554	24.41%	1.035%
112	8.717	8.700	8.735	VV	15425	290062	7.53%	0.319%
113	8.751	8.735	8.773	VV	16403	326396	8.47%	0.359%
114	8.788	8.773	8.820	VV	13502	324961	8.43%	0.357%
115	8.836	8.820	8.846	VV	10883	153227	3.98%	0.169%
116	8.863	8.846	8.873	VV	18258	242116	6.28%	0.266%
117	8.888	8.873	8.905	VV	18338	321289	8.34%	0.353%
118	8.921	8.905	8.939	VV	21621	377960	9.81%	0.416%
119	8.956	8.939	8.979	VV	32456	513637	13.33%	0.565%
120	8.997	8.979	9.008	VV	18934	276738	7.18%	0.304%
121	9.021	9.008	9.031	VV	21742	265744	6.90%	0.292%
122	9.046	9.031	9.070	VV	34417	536375	13.92%	0.590%
123	9.095	9.070	9.108	VV	14467	306993	7.97%	0.338%
124	9.122	9.108	9.140	VV	16638	256785	6.66%	0.282%
125	9.162	9.140	9.178	VV	16882	315568	8.19%	0.347%
126	9.194	9.178	9.214	VV	18201	324458	8.42%	0.357%
127	9.226	9.214	9.234	VV	13120	152261	3.95%	0.167%
128	9.247	9.234	9.257	VV	14114	186275	4.83%	0.205%
129	9.277	9.257	9.287	VV	16371	269393	6.99%	0.296%
130	9.296	9.287	9.312	VV	16675	225955	5.86%	0.249%
131	9.333	9.312	9.352	VV	20362	398048	10.33%	0.438%
132	9.371	9.352	9.395	VV	18962	395527	10.26%	0.435%
133	9.416	9.395	9.434	VV	15939	316244	8.21%	0.348%
134	9.455	9.434	9.468	VV	13730	255557	6.63%	0.281%
135	9.484	9.468	9.506	VV	18594	323161	8.39%	0.355%
136	9.531	9.506	9.551	VV	14185	314312	8.16%	0.346%
137	9.575	9.551	9.604	VV	19472	449572	11.67%	0.495%
138	9.629	9.604	9.651	VV	16559	397840	10.32%	0.438%
139	9.668	9.651	9.683	VV	14430	233697	6.06%	0.257%
140	9.712	9.683	9.759	VV	33918	890029	23.10%	0.979%
141	9.786	9.759	9.822	VV	20294	532118	13.81%	0.585%

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142	9.830	9.822	9.838	VV	10774	104277	2.71%	0.115%
143	9.870	9.838	9.908	VV	18260	572204	14.85%	0.629%
144	9.914	9.908	9.939	VV	9623	165944	4.31%	0.183%
145	9.950	9.939	9.959	VV	8735	102427	2.66%	0.113%
146	9.992	9.959	10.020	VV	36064	699606	18.16%	0.770%
147	10.031	10.020	10.051	VV	15708	266971	6.93%	0.294%
148	10.070	10.051	10.100	VV	15148	362155	9.40%	0.398%
149	10.118	10.100	10.137	VV	15300	257627	6.69%	0.283%
150	10.144	10.137	10.180	VV	10636	246478	6.40%	0.271%
151	10.196	10.180	10.213	VV	9955	182748	4.74%	0.201%
152	10.222	10.213	10.268	VV	9345	228976	5.94%	0.252%
153	10.290	10.268	10.319	VV	7449	189908	4.93%	0.209%
154	10.330	10.319	10.337	VV	5766	59100	1.53%	0.065%
155	10.343	10.337	10.372	VV	5773	103793	2.69%	0.114%
156	10.397	10.372	10.408	VV	5127	97474	2.53%	0.107%
157	10.424	10.408	10.436	VV	5065	81880	2.12%	0.090%
158	10.459	10.436	10.480	VV	8858	175545	4.56%	0.193%
159	10.505	10.480	10.533	VV	16838	325662	8.45%	0.358%
160	10.562	10.533	10.569	VV	9903	157806	4.10%	0.174%
161	10.595	10.569	10.619	VV	16120	349430	9.07%	0.384%
162	10.643	10.619	10.673	VV	13823	302382	7.85%	0.333%
163	10.711	10.673	10.753	VV	14253	381554	9.90%	0.420%
164	10.772	10.753	10.820	VV	9724	307986	7.99%	0.339%
165	10.855	10.820	10.870	VV	9748	237158	6.15%	0.261%
166	10.882	10.870	10.901	VV	10308	152618	3.96%	0.168%
167	10.929	10.901	10.958	VV	27776	505927	13.13%	0.557%
168	10.974	10.958	11.013	VV	7794	190002	4.93%	0.209%
169	11.019	11.013	11.033	VV	4072	40761	1.06%	0.045%
170	11.055	11.033	11.070	VV	3973	78484	2.04%	0.086%
171	11.091	11.070	11.098	VV	5058	70973	1.84%	0.078%
172	11.120	11.098	11.173	VV	36370	598345	15.53%	0.658%
173	11.198	11.173	11.241	VV	41055	702528	18.23%	0.773%
174	11.249	11.241	11.324	VV	8854	227012	5.89%	0.250%
175	11.334	11.324	11.355	VV	2699	37827	0.98%	0.042%
176	11.371	11.355	11.377	VV	1744	20186	0.52%	0.022%
177	11.383	11.377	11.404	VV	2061	25501	0.66%	0.028%
178	11.433	11.404	11.454	VV	9025	169928	4.41%	0.187%
179	11.466	11.454	11.476	VV	6010	71724	1.86%	0.079%
180	11.486	11.476	11.500	VV	6129	77739	2.02%	0.086%
181	11.516	11.500	11.538	VV	8063	135070	3.51%	0.149%
182	11.559	11.538	11.578	VV	6147	112052	2.91%	0.123%
183	11.609	11.578	11.627	VV	6352	146479	3.80%	0.161%
184	11.650	11.627	11.698	VV	29450	507804	13.18%	0.559%
185	11.719	11.698	11.740	VV	6990	109310	2.84%	0.120%
186	11.779	11.740	11.804	VV	13351	251213	6.52%	0.276%
187	11.815	11.804	11.825	VV	4116	48732	1.26%	0.054%
188	11.830	11.825	11.842	VV	4187	41960	1.09%	0.046%
189	11.847	11.842	11.868	VV	4158	52862	1.37%	0.058%
190	11.879	11.868	11.895	VV	2990	41898	1.09%	0.046%
191	11.923	11.895	11.943	VV	48619	638534	16.57%	0.702%
192	11.957	11.943	12.005	VV	25531	379275	9.84%	0.417%
193	12.035	12.005	12.055	VV	62700	870889	22.60%	0.958%
194	12.071	12.055	12.088	VV	44711	563256	14.62%	0.620%

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195	12.104	12.088	12.158	VV	45650	715123	18.56%	0.787%
196	12.177	12.158	12.184	VV	1920	20287	0.53%	0.022%
197	12.214	12.184	12.251	VV	6986	165764	4.30%	0.182%
198	12.264	12.251	12.283	VV	3458	42950	1.11%	0.047%
199	12.327	12.283	12.377	VV	13616	320751	8.32%	0.353%
200	12.400	12.377	12.418	VV	18762	256318	6.65%	0.282%
201	12.429	12.418	12.445	VV	11056	140507	3.65%	0.155%
202	12.463	12.445	12.477	VV	12424	186874	4.85%	0.206%
203	12.492	12.477	12.520	VV	20303	276245	7.17%	0.304%
204	12.543	12.520	12.563	VV	6095	115975	3.01%	0.128%
205	12.581	12.563	12.595	VV	7584	107121	2.78%	0.118%
206	12.606	12.595	12.618	VV	6552	83673	2.17%	0.092%
207	12.622	12.618	12.638	VV	5355	56466	1.47%	0.062%
208	12.655	12.638	12.660	VV	7704	80316	2.08%	0.088%
209	12.672	12.660	12.698	VV	11475	186138	4.83%	0.205%
210	12.719	12.698	12.733	VV	24672	322543	8.37%	0.355%
211	12.738	12.733	12.766	VV	15720	156684	4.07%	0.172%
212	12.798	12.766	12.806	VV	14064	185519	4.81%	0.204%
213	12.826	12.806	12.845	VV	70382	914287	23.73%	1.006%
214	12.862	12.845	12.880	VV	29468	453946	11.78%	0.499%
215	12.891	12.880	12.919	VV	21892	389833	10.12%	0.429%
216	12.944	12.919	13.008	VV	295963	3731369	96.83%	4.105%
217	13.042	13.008	13.056	VV	6266	87522	2.27%	0.096%
218	13.086	13.056	13.118	VV	29647	575289	14.93%	0.633%
219	13.134	13.118	13.151	VV	19997	251174	6.52%	0.276%
220	13.163	13.151	13.175	VV	9521	116913	3.03%	0.129%
221	13.192	13.175	13.216	VV	17087	287827	7.47%	0.317%
222	13.243	13.216	13.287	VV	316793	3853492	100.00%	4.239%
223	13.303	13.287	13.320	VV	15139	212554	5.52%	0.234%
224	13.339	13.320	13.367	VV	20907	327136	8.49%	0.360%
225	13.379	13.367	13.395	VV	5255	77778	2.02%	0.086%
226	13.427	13.395	13.475	VV	7669	216248	5.61%	0.238%
227	13.489	13.475	13.504	VV	3016	34441	0.89%	0.038%
228	13.527	13.504	13.559	VV	16502	307210	7.97%	0.338%
229	13.577	13.559	13.601	VV	17911	260347	6.76%	0.286%
230	13.608	13.601	13.619	VV	3704	29808	0.77%	0.033%
231	13.640	13.619	13.653	VV	11642	156089	4.05%	0.172%
232	13.668	13.653	13.685	VV	12253	202289	5.25%	0.223%
233	13.707	13.685	13.733	VV	35267	608636	15.79%	0.670%
234	13.739	13.733	13.773	VV	9817	146302	3.80%	0.161%
235	13.839	13.773	13.885	VV	77002	1595875	41.41%	1.755%
236	13.901	13.885	13.922	VV	8643	147270	3.82%	0.162%
237	13.946	13.922	13.966	VV	46847	639436	16.59%	0.703%
238	13.985	13.966	14.010	VV	56018	772637	20.05%	0.850%
239	14.018	14.010	14.051	VV	12147	210881	5.47%	0.232%
240	14.072	14.051	14.089	VV	15340	260139	6.75%	0.286%
241	14.114	14.089	14.137	VV	53141	811647	21.06%	0.893%
242	14.157	14.137	14.210	VV	39486	651194	16.90%	0.716%
243	14.221	14.210	14.252	VV	4363	64718	1.68%	0.071%
244	14.260	14.252	14.263	VV	862	4841	0.13%	0.005%
245	14.287	14.263	14.301	VV	4076	66580	1.73%	0.073%
246	14.310	14.301	14.334	VV	4741	70793	1.84%	0.078%

rteres

247	14.346	14.334	14.382	VV	2380	40411	1.05%	0.044%
248	14.402	14.382	14.409	PV	914	9166	0.24%	0.010%
249	14.431	14.409	14.464	VV	6579	141624	3.68%	0.156%
250	14.480	14.464	14.495	VV	4973	78295	2.03%	0.086%
251	14.513	14.495	14.520	VV	5737	71878	1.87%	0.079%
252	14.547	14.520	14.565	VV	19064	406679	10.55%	0.447%
253	14.577	14.565	14.620	VV	16255	369268	9.58%	0.406%
254	14.650	14.620	14.665	VV	16089	295938	7.68%	0.326%
255	14.680	14.665	14.707	VV	19568	358846	9.31%	0.395%
256	14.711	14.707	14.735	VV	7284	89022	2.31%	0.098%
257	14.761	14.735	14.794	VV	36601	718414	18.64%	0.790%
258	14.818	14.794	14.842	VV	50582	845475	21.94%	0.930%
259	14.851	14.842	14.864	VV	12092	136767	3.55%	0.150%
260	14.885	14.864	14.905	VV	12180	228623	5.93%	0.251%
261	14.910	14.905	14.923	VV	7883	71793	1.86%	0.079%
262	14.941	14.923	14.956	VV	9763	146749	3.81%	0.161%
263	14.983	14.956	15.071	VV	105678	1753668	45.51%	1.929%
264	15.095	15.071	15.111	PV	17734	229158	5.95%	0.252%
265	15.134	15.111	15.154	VV	127158	1669538	43.33%	1.837%
266	15.174	15.154	15.218	VV	148031	2214067	57.46%	2.436%
267	15.221	15.218	15.258	VV	6127	95799	2.49%	0.105%
268	15.294	15.258	15.305	VV	18516	309425	8.03%	0.340%
269	15.321	15.305	15.393	VV	22060	645449	16.75%	0.710%
270	15.409	15.393	15.423	VV	5154	68377	1.77%	0.075%
271	15.450	15.423	15.474	VV	15031	342507	8.89%	0.377%
272	15.488	15.474	15.512	VV	14666	251424	6.52%	0.277%
273	15.522	15.512	15.545	VV	7634	111656	2.90%	0.123%
274	15.573	15.545	15.670	VV	42348	1146763	29.76%	1.261%
275	15.705	15.670	15.743	PV	10311	305504	7.93%	0.336%
276	15.767	15.743	15.787	VV	11553	158659	4.12%	0.175%
277	15.811	15.787	15.833	VV	62562	858245	22.27%	0.944%
278	15.848	15.833	15.881	VV	29112	470528	12.21%	0.518%
279	15.897	15.881	15.916	VV	13073	219744	5.70%	0.242%
280	15.923	15.916	15.933	VV	12424	115314	2.99%	0.127%
281	15.972	15.933	16.024	VV	35200	1064495	27.62%	1.171%
282	16.050	16.024	16.075	VV	9182	190506	4.94%	0.210%
283	16.096	16.075	16.123	VV	5906	113195	2.94%	0.125%
284	16.140	16.123	16.183	VV	8569	161058	4.18%	0.177%
285	16.212	16.183	16.274	VV	11021	298673	7.75%	0.329%
286	16.281	16.274	16.297	VV	3456	29635	0.77%	0.033%
287	16.318	16.297	16.335	VV	3312	43607	1.13%	0.048%
288	16.351	16.335	16.366	VV	2436	25150	0.65%	0.028%
289	16.416	16.366	16.436	PV	10872	218396	5.67%	0.240%
290	16.460	16.436	16.477	VV	8265	126879	3.29%	0.140%
291	16.500	16.477	16.504	VV	12487	137399	3.57%	0.151%
292	16.512	16.504	16.540	VV	13173	188163	4.88%	0.207%
293	16.585	16.540	16.591	VV	12381	261765	6.79%	0.288%
294	16.611	16.591	16.643	VV	17291	362058	9.40%	0.398%
295	16.702	16.643	16.721	VV	164062	2369089	61.48%	2.606%
296	16.731	16.721	16.772	VV	56932	826705	21.45%	0.909%
297	16.779	16.772	16.809	VV	3900	67648	1.76%	0.074%
298	16.835	16.809	16.866	VV	36974	570558	14.81%	0.628%
299	16.873	16.866	16.885	VV	7206	66505	1.73%	0.073%

rteres

300	16.889	16.885	16.922	VV	5200	71357	1.85%	0.078%
301	16.926	16.922	16.931	VV	832	3212	0.08%	0.004%
302	16.936	16.931	16.941	PV	761	3472	0.09%	0.004%
303	16.985	16.941	17.003	VV	50000	716900	18.60%	0.789%
304	17.025	17.003	17.059	VV	93981	1344663	34.89%	1.479%
305	17.085	17.059	17.128	VV	117689	1669441	43.32%	1.836%
306	17.161	17.128	17.166	VV	7441	132603	3.44%	0.146%
307	17.190	17.166	17.223	VV	28507	453137	11.76%	0.498%
308	17.236	17.223	17.252	VV	6969	88584	2.30%	0.097%
309	17.260	17.252	17.280	VV	3083	35346	0.92%	0.039%
310	17.331	17.280	17.374	PV	16145	405826	10.53%	0.446%
311	17.391	17.374	17.400	PBA	3553	34968	0.91%	0.038%

Sum of corrected areas: 90907574

FG042425.M Thu May 22 01:29:12 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG052125\
Data File : FG015880.D
Signal(s) : FID1A.ch
Acq On : 21 May 2025 17:38
Operator : YP\AJ
Sample : Q2074-02
Misc :
ALS Vial : 32 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
TP-7

Integration File: autoint1.e
Quant Time: May 22 00:42:40 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG042425.M
Quant Title :
QLast Update : Thu Apr 24 12:54:09 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...	14.984	2359313	20.039 ug/ml
Target Compounds			

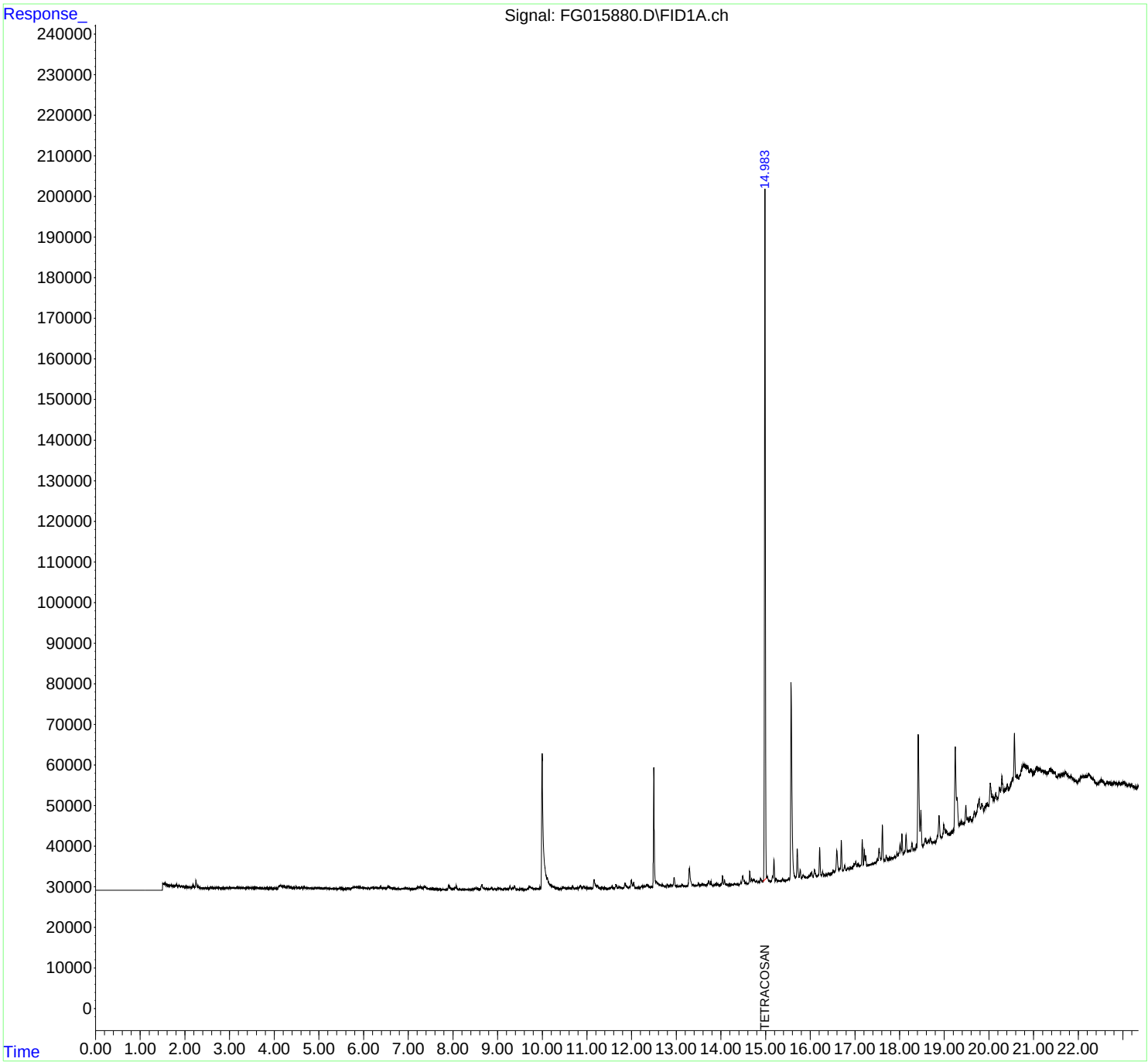
(f)=RT Delta > 1/2 Window (m)=manual int.

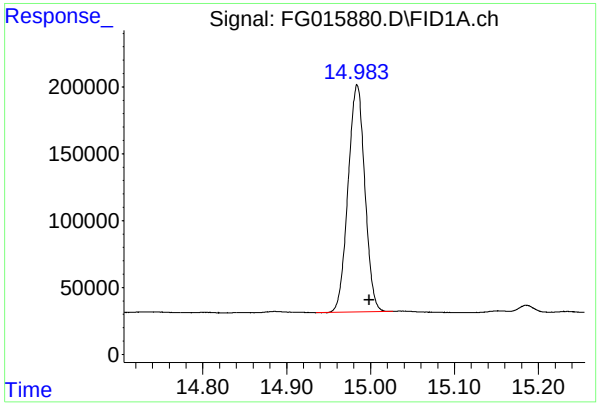
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG052125\
Data File : FG015880.D
Signal(s) : FID1A.ch
Acq On : 21 May 2025 17:38
Operator : YP\AJ
Sample : Q2074-02
Misc :
ALS Vial : 32 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
TP-7

Integration File: autoint1.e
Quant Time: May 22 00:42:40 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG042425.M
Quant Title :
QLast Update : Thu Apr 24 12:54:09 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.: 14.984 min
Delta R.T.: -0.014 mir
Response: 2359313
Conc: 20.04 ug/m

Instrument :
FID_G
ClientSampleId :
TP-7

11

A B C D E F G H I J

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG052125\
Data File : FG015880.D
Signal(s) : FID1A.ch
Acq On : 21 May 2025 17:38
Sample : Q2074-02
Misc :
ALS Vial : 32 Sample Multiplier: 1

Integration File: Sample.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG042425.M
Title :

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.317	4.300	4.350	BV	176	1456	0.06%	0.018%
2	4.353	4.350	4.368	PV	104	676	0.03%	0.009%
3	4.375	4.368	4.383	PV	110	758	0.03%	0.010%
4	4.392	4.383	4.408	PV	162	1477	0.06%	0.019%
5	4.411	4.408	4.415	VV	131	441	0.02%	0.006%
6	4.422	4.415	4.431	VV	177	841	0.04%	0.011%
7	4.435	4.431	4.473	VV	123	1632	0.07%	0.021%
8	4.492	4.473	4.525	VV	305	4890	0.20%	0.062%
9	4.529	4.525	4.543	VV	177	1184	0.05%	0.015%
10	4.547	4.543	4.550	VV	105	398	0.02%	0.005%
11	4.554	4.550	4.566	VV	156	742	0.03%	0.009%
12	4.569	4.566	4.587	PV	112	732	0.03%	0.009%
13	4.592	4.587	4.598	PV	38	282	0.01%	0.004%
14	4.614	4.598	4.646	VV	393	4507	0.19%	0.057%
15	4.665	4.646	4.695	VV	441	7002	0.29%	0.088%
16	4.704	4.695	4.711	VV	146	1036	0.04%	0.013%
17	4.720	4.711	4.741	VV	124	1533	0.06%	0.019%
18	4.745	4.741	4.754	VV	161	703	0.03%	0.009%
19	4.762	4.754	4.788	VV	130	1518	0.06%	0.019%
20	4.792	4.788	4.798	VV	65	411	0.02%	0.005%
21	4.801	4.798	4.809	VV	142	624	0.03%	0.008%
22	4.813	4.809	4.824	VV	166	824	0.03%	0.010%
23	4.828	4.824	4.840	VV	160	914	0.04%	0.012%
24	4.841	4.840	4.861	VV	133	1108	0.05%	0.014%
25	4.866	4.861	4.873	VV	156	678	0.03%	0.009%
26	4.881	4.873	4.895	VV	127	1047	0.04%	0.013%
27	4.902	4.895	4.907	VV	184	982	0.04%	0.012%
28	4.917	4.907	4.952	VV	214	4320	0.18%	0.054%
29	4.956	4.952	4.974	VV	225	2311	0.10%	0.029%
30	4.986	4.974	4.998	VV	224	2529	0.11%	0.032%
31	5.001	4.998	5.021	VV	160	2117	0.09%	0.027%
32	5.029	5.021	5.054	VV	168	2520	0.11%	0.032%
33	5.058	5.054	5.083	VV	144	2097	0.09%	0.026%
34	5.096	5.083	5.118	VV	166	2239	0.09%	0.028%
35	5.124	5.118	5.130	VV	112	726	0.03%	0.009%
36	5.157	5.130	5.184	VV	351	6346	0.26%	0.080%

rteres

37	5.196	5.184	5.203	VV	173	1594	0.07%	0.020%
38	5.206	5.203	5.216	VV	162	935	0.04%	0.012%
39	5.235	5.216	5.253	VV	151	1918	0.08%	0.024%
40	5.260	5.253	5.276	VV	124	936	0.04%	0.012%
41	5.306	5.276	5.357	VV	147	4204	0.18%	0.053%
42	5.364	5.357	5.369	VV	129	762	0.03%	0.010%
43	5.374	5.369	5.411	VV	137	2573	0.11%	0.032%
44	5.417	5.411	5.429	VV	152	878	0.04%	0.011%
45	5.435	5.429	5.447	PV	103	729	0.03%	0.009%
46	5.475	5.447	5.497	VV	331	6260	0.26%	0.079%
47	5.502	5.497	5.509	VV	481	1450	0.06%	0.018%
48	5.517	5.509	5.544	VV	127	2336	0.10%	0.029%
49	5.563	5.544	5.570	VV	212	1948	0.08%	0.025%
50	5.574	5.570	5.579	VV	170	593	0.02%	0.007%
51	5.587	5.579	5.602	VV	158	1303	0.05%	0.016%
52	5.643	5.602	5.652	VV	206	3604	0.15%	0.045%
53	5.662	5.652	5.668	VV	169	1207	0.05%	0.015%
54	5.672	5.668	5.681	VV	135	761	0.03%	0.010%
55	5.702	5.681	5.712	VV	177	2311	0.10%	0.029%
56	5.717	5.712	5.721	VV	165	765	0.03%	0.010%
57	5.789	5.721	5.809	VV	559	22282	0.93%	0.281%
58	5.827	5.809	5.847	VV	588	11660	0.49%	0.147%
59	5.851	5.847	5.867	VV	459	5311	0.22%	0.067%
60	5.874	5.867	5.879	VV	491	3188	0.13%	0.040%
61	5.884	5.879	5.904	VV	520	6839	0.29%	0.086%
62	5.912	5.904	5.925	VV	561	6440	0.27%	0.081%
63	5.931	5.925	5.950	VV	506	6434	0.27%	0.081%
64	5.955	5.950	5.964	VV	403	3043	0.13%	0.038%
65	5.969	5.964	6.010	VV	425	10069	0.42%	0.127%
66	6.024	6.010	6.073	VV	376	10995	0.46%	0.139%
67	6.079	6.073	6.083	VV	277	1370	0.06%	0.017%
68	6.086	6.083	6.097	VV	292	2088	0.09%	0.026%
69	6.102	6.097	6.122	VV	325	4109	0.17%	0.052%
70	6.131	6.122	6.139	VV	301	2343	0.10%	0.030%
71	6.162	6.139	6.175	VV	390	7280	0.30%	0.092%
72	6.182	6.175	6.192	VV	333	3434	0.14%	0.043%
73	6.206	6.192	6.230	VV	606	10038	0.42%	0.126%
74	6.234	6.230	6.238	VV	418	1543	0.06%	0.019%
75	6.245	6.238	6.249	VV	453	2845	0.12%	0.036%
76	6.272	6.249	6.304	VV	451	13177	0.55%	0.166%
77	6.312	6.304	6.317	VV	382	2831	0.12%	0.036%
78	6.322	6.317	6.331	VV	418	3048	0.13%	0.038%
79	6.349	6.331	6.354	VV	412	4833	0.20%	0.061%
80	6.383	6.354	6.410	VV	939	18835	0.79%	0.237%
81	6.415	6.410	6.424	VV	328	2323	0.10%	0.029%
82	6.438	6.424	6.453	VV	377	5427	0.23%	0.068%
83	6.470	6.453	6.497	VV	382	7957	0.33%	0.100%
84	6.507	6.497	6.513	VV	259	2038	0.09%	0.026%
85	6.553	6.513	6.596	VV	828	27825	1.16%	0.351%
86	6.602	6.596	6.635	VV	410	8244	0.34%	0.104%
87	6.640	6.635	6.663	VV	302	4845	0.20%	0.061%
88	6.668	6.663	6.679	VV	402	3103	0.13%	0.039%
89	6.683	6.679	6.732	VV	340	6344	0.26%	0.080%

rteres

90	6.739	6.732	6.746	VV	219	1494	0.06%	0.019%
91	6.752	6.746	6.762	VV	182	1254	0.05%	0.016%
92	6.770	6.762	6.795	VV	207	2556	0.11%	0.032%
93	6.797	6.795	6.814	VV	147	1255	0.05%	0.016%
94	6.859	6.814	6.872	VV	284	6770	0.28%	0.085%
95	6.878	6.872	6.887	VV	324	2343	0.10%	0.030%
96	6.894	6.887	6.910	VV	324	4113	0.17%	0.052%
97	6.926	6.910	6.952	VV	364	7626	0.32%	0.096%
98	6.962	6.952	6.972	VV	354	3704	0.15%	0.047%
99	6.977	6.972	6.984	VV	367	2128	0.09%	0.027%
100	6.985	6.984	6.989	VV	317	867	0.04%	0.011%
101	6.992	6.989	7.006	VV	308	2387	0.10%	0.030%
102	7.015	7.006	7.057	VV	289	6005	0.25%	0.076%
103	7.089	7.057	7.130	VV	229	6709	0.28%	0.085%
104	7.154	7.130	7.158	VV	215	2746	0.11%	0.035%
105	7.233	7.158	7.243	VV	620	21662	0.90%	0.273%
106	7.264	7.243	7.289	VV	667	15967	0.67%	0.201%
107	7.296	7.289	7.326	VV	559	9738	0.41%	0.123%
108	7.352	7.326	7.377	VV	880	16914	0.71%	0.213%
109	7.389	7.377	7.450	VV	620	18475	0.77%	0.233%
110	7.456	7.450	7.494	VV	342	6435	0.27%	0.081%
111	7.497	7.494	7.536	VV	225	4521	0.19%	0.057%
112	7.540	7.536	7.547	VV	228	1141	0.05%	0.014%
113	7.567	7.547	7.581	VV	284	4135	0.17%	0.052%
114	7.589	7.581	7.619	VV	163	3253	0.14%	0.041%
115	7.627	7.619	7.661	VV	286	4097	0.17%	0.052%
116	7.663	7.661	7.674	VV	125	834	0.03%	0.011%
117	7.679	7.674	7.706	VV	107	1747	0.07%	0.022%
118	7.710	7.706	7.729	VV	151	1190	0.05%	0.015%
119	7.737	7.729	7.765	VV	145	1516	0.06%	0.019%
120	7.770	7.765	7.777	VV	133	598	0.02%	0.008%
121	7.781	7.777	7.790	VV	111	696	0.03%	0.009%
122	7.797	7.790	7.819	VV	131	1362	0.06%	0.017%
123	7.822	7.819	7.832	VV	114	600	0.03%	0.008%
124	7.842	7.832	7.851	VV	102	579	0.02%	0.007%
125	7.903	7.851	8.011	PV	1198	37955	1.58%	0.478%
126	8.048	8.011	8.062	VV	599	11155	0.47%	0.141%
127	8.077	8.062	8.125	VV	1077	16379	0.68%	0.206%
128	8.149	8.125	8.153	VV	184	2092	0.09%	0.026%
129	8.159	8.153	8.179	VV	165	1997	0.08%	0.025%
130	8.186	8.179	8.227	VV	147	2343	0.10%	0.030%
131	8.234	8.227	8.246	VV	100	763	0.03%	0.010%
132	8.254	8.246	8.267	VV	173	1382	0.06%	0.017%
133	8.295	8.267	8.306	VV	126	1720	0.07%	0.022%
134	8.312	8.306	8.318	VV	75	378	0.02%	0.005%
135	8.328	8.318	8.347	VV	99	1185	0.05%	0.015%
136	8.360	8.347	8.377	VV	117	880	0.04%	0.011%
137	8.390	8.377	8.411	PV	173	1409	0.06%	0.018%
138	8.442	8.411	8.458	VV	306	4484	0.19%	0.056%
139	8.474	8.458	8.494	VV	337	5245	0.22%	0.066%
140	8.510	8.494	8.573	VV	520	15656	0.65%	0.197%
141	8.647	8.573	8.733	VV	1297	42868	1.79%	0.540%

rteres

142	8.748	8.733	8.754	VV	328	3406	0.14%	0.043%
143	8.769	8.754	8.822	VV	334	7679	0.32%	0.097%
144	8.835	8.822	8.851	VV	330	3999	0.17%	0.050%
145	8.866	8.851	8.906	VV	629	9406	0.39%	0.119%
146	8.936	8.906	8.953	VV	328	5059	0.21%	0.064%
147	8.959	8.953	8.966	VV	171	953	0.04%	0.012%
148	8.970	8.966	8.981	VV	87	558	0.02%	0.007%
149	9.014	8.981	9.035	VV	527	10705	0.45%	0.135%
150	9.048	9.035	9.071	VV	423	6451	0.27%	0.081%
151	9.075	9.071	9.115	VV	206	3371	0.14%	0.042%
152	9.145	9.115	9.150	VV	337	3355	0.14%	0.042%
153	9.156	9.150	9.182	VV	290	4499	0.19%	0.057%
154	9.196	9.182	9.225	VV	272	4358	0.18%	0.055%
155	9.247	9.225	9.257	VV	290	4027	0.17%	0.051%
156	9.278	9.257	9.315	VV	1072	16653	0.69%	0.210%
157	9.339	9.315	9.357	VV	658	9953	0.42%	0.125%
158	9.383	9.357	9.413	VV	1027	18497	0.77%	0.233%
159	9.426	9.413	9.452	VV	190	2349	0.10%	0.030%
160	9.453	9.452	9.459	VV	114	193	0.01%	0.002%
161	9.463	9.459	9.469	VV	88	419	0.02%	0.005%
162	9.473	9.469	9.489	VV	124	644	0.03%	0.008%
163	9.493	9.489	9.499	PV	120	464	0.02%	0.006%
164	9.522	9.499	9.552	VV	366	5639	0.24%	0.071%
165	9.561	9.552	9.569	VV	97	704	0.03%	0.009%
166	9.577	9.569	9.593	VV	135	1228	0.05%	0.015%
167	9.599	9.593	9.603	VV	44	162	0.01%	0.002%
168	9.609	9.603	9.624	PV	63	663	0.03%	0.008%
169	9.627	9.624	9.650	VV	123	1075	0.04%	0.014%
170	9.675	9.650	9.685	VV	307	3878	0.16%	0.049%
171	9.710	9.685	9.750	VV	806	23978	1.00%	0.302%
172	9.756	9.750	9.787	VV	551	9013	0.38%	0.114%
173	9.792	9.787	9.799	VV	289	1848	0.08%	0.023%
174	9.804	9.799	9.829	VV	327	4102	0.17%	0.052%
175	9.842	9.829	9.854	VV	244	2978	0.12%	0.038%
176	9.872	9.854	9.887	VV	382	5498	0.23%	0.069%
177	9.890	9.887	9.895	VV	284	1106	0.05%	0.014%
178	9.897	9.895	9.916	VV	233	2439	0.10%	0.031%
179	9.951	9.916	9.965	VV	711	9749	0.41%	0.123%
180	9.998	9.965	10.106	VV	33402	842024	35.14%	10.609%
181	10.116	10.106	10.227	VV	2873	110395	4.61%	1.391%
182	10.232	10.227	10.256	VV	805	11871	0.50%	0.150%
183	10.260	10.256	10.277	VV	585	6925	0.29%	0.087%
184	10.353	10.345	10.381	VV	247	4433	0.19%	0.056%
185	10.388	10.381	10.427	VV	241	3923	0.16%	0.049%
186	10.452	10.427	10.487	VV	583	14723	0.61%	0.186%
187	10.496	10.487	10.526	VV	459	8731	0.36%	0.110%
188	10.587	10.526	10.619	VV	384	14176	0.59%	0.179%
189	10.639	10.619	10.662	VV	307	5872	0.25%	0.074%
190	10.681	10.662	10.727	VV	889	15684	0.65%	0.198%
191	10.735	10.727	10.741	VV	203	1500	0.06%	0.019%
192	10.756	10.741	10.770	VV	310	4485	0.19%	0.057%
193	10.786	10.770	10.807	VV	385	6407	0.27%	0.081%
194	10.860	10.807	10.894	VV	933	27496	1.15%	0.346%

rteres

195	10.930	10.894	10.966	VV	768	21113	0.88%	0.266%
196	10.971	10.966	10.975	VV	363	1843	0.08%	0.023%
197	10.982	10.975	11.004	VV	395	4973	0.21%	0.063%
198	11.006	11.004	11.019	VV	247	1733	0.07%	0.022%
199	11.039	11.019	11.067	VV	315	7055	0.29%	0.089%
200	11.083	11.067	11.124	VV	346	8168	0.34%	0.103%
201	11.159	11.124	11.222	VV	2325	63220	2.64%	0.797%
202	11.237	11.222	11.267	VV	962	19151	0.80%	0.241%
203	11.274	11.267	11.329	VV	417	10970	0.46%	0.138%
204	11.342	11.329	11.347	VV	289	2772	0.12%	0.035%
205	11.381	11.347	11.389	VV	278	5803	0.24%	0.073%
206	11.394	11.389	11.443	VV	249	4215	0.18%	0.053%
207	11.449	11.443	11.475	VV	140	1074	0.04%	0.014%
208	11.501	11.475	11.509	PV	237	3156	0.13%	0.040%
209	11.512	11.509	11.520	VV	217	1078	0.04%	0.014%
210	11.565	11.520	11.587	VV	845	16472	0.69%	0.208%
211	11.590	11.587	11.602	VV	226	1581	0.07%	0.020%
212	11.650	11.602	11.695	VV	1151	25756	1.07%	0.325%
213	11.724	11.695	11.745	VV	648	10620	0.44%	0.134%
214	11.759	11.745	11.779	VV	398	5353	0.22%	0.067%
215	11.782	11.779	11.805	VV	135	1400	0.06%	0.018%
216	11.851	11.805	11.908	VV	1341	37059	1.55%	0.467%
217	11.917	11.908	11.929	VV	384	3699	0.15%	0.047%
218	11.959	11.929	11.965	VV	413	5977	0.25%	0.075%
219	11.993	11.965	12.028	VV	2045	42588	1.78%	0.537%
220	12.047	12.028	12.090	VV	1557	24472	1.02%	0.308%
221	12.092	12.090	12.109	VV	232	1117	0.05%	0.014%
222	12.115	12.109	12.119	VV	142	653	0.03%	0.008%
223	12.126	12.119	12.150	VV	102	2105	0.09%	0.027%
224	12.155	12.150	12.163	VV	146	796	0.03%	0.010%
225	12.167	12.163	12.171	VV	156	385	0.02%	0.005%
226	12.182	12.171	12.189	PV	134	724	0.03%	0.009%
227	12.235	12.189	12.262	VV	654	14319	0.60%	0.180%
228	12.272	12.262	12.280	VV	381	3601	0.15%	0.045%
229	12.297	12.280	12.311	VV	442	7165	0.30%	0.090%
230	12.337	12.311	12.345	VV	814	12086	0.50%	0.152%
231	12.349	12.345	12.405	VV	762	16967	0.71%	0.214%
232	12.410	12.405	12.419	VV	161	1240	0.05%	0.016%
233	12.440	12.419	12.462	VV	325	5816	0.24%	0.073%
234	12.497	12.462	12.542	VV	29633	374290	15.62%	4.716%
235	12.558	12.542	12.575	VV	1685	26917	1.12%	0.339%
236	12.586	12.575	12.625	VV	1293	27878	1.16%	0.351%
237	12.630	12.625	12.671	VV	710	15569	0.65%	0.196%
238	12.681	12.671	12.685	VV	575	4318	0.18%	0.054%
239	12.703	12.685	12.752	VV	600	16079	0.67%	0.203%
240	12.770	12.752	12.776	VV	267	3022	0.13%	0.038%
241	12.802	12.776	12.821	VV	731	12813	0.53%	0.161%
242	12.825	12.821	12.844	VV	453	4424	0.18%	0.056%
243	12.858	12.844	12.862	VV	331	2935	0.12%	0.037%
244	12.880	12.862	12.909	VV	742	13031	0.54%	0.164%
245	12.915	12.909	12.924	VV	413	3047	0.13%	0.038%
246	12.949	12.924	12.990	VV	2392	44876	1.87%	0.565%

rteres

247	12.993	12.990	13.039	VV	300	6251	0.26%	0.079%
248	13.056	13.039	13.070	VV	164	2172	0.09%	0.027%
249	13.091	13.070	13.095	VV	193	2262	0.09%	0.029%
250	13.136	13.095	13.167	VV	521	12486	0.52%	0.157%
251	13.173	13.167	13.179	VV	193	1212	0.05%	0.015%
252	13.182	13.179	13.185	VV	166	515	0.02%	0.006%
253	13.202	13.185	13.208	VV	226	2042	0.09%	0.026%
254	13.212	13.208	13.219	VV	119	560	0.02%	0.007%
255	13.223	13.219	13.225	VV	89	241	0.01%	0.003%
256	13.292	13.225	13.379	VV	4557	116940	4.88%	1.473%
257	13.384	13.379	13.399	VV	394	3837	0.16%	0.048%
258	13.403	13.399	13.408	VV	312	1347	0.06%	0.017%
259	13.410	13.408	13.430	VV	237	2626	0.11%	0.033%
260	13.453	13.430	13.475	VV	279	5476	0.23%	0.069%
261	13.492	13.475	13.534	VV	759	15058	0.63%	0.190%
262	13.555	13.534	13.560	VV	357	4468	0.19%	0.056%
263	13.591	13.560	13.603	VV	597	10426	0.44%	0.131%
264	13.608	13.603	13.651	VV	458	9261	0.39%	0.117%
265	13.671	13.651	13.692	VV	365	6430	0.27%	0.081%
266	13.730	13.692	13.753	VV	1279	26216	1.09%	0.330%
267	13.776	13.753	13.807	VV	1173	18062	0.75%	0.228%
268	13.811	13.807	13.817	VV	164	756	0.03%	0.010%
269	13.879	13.817	13.927	VV	423	16200	0.68%	0.204%
270	13.931	13.927	13.969	VV	292	4551	0.19%	0.057%
271	13.997	13.969	14.006	VV	219	3185	0.13%	0.040%
272	14.035	14.006	14.059	VV	2401	33785	1.41%	0.426%
273	14.079	14.059	14.120	VV	1356	21759	0.91%	0.274%
274	14.133	14.120	14.154	VV	237	3558	0.15%	0.045%
275	14.156	14.154	14.170	VV	140	1136	0.05%	0.014%
276	14.174	14.170	14.229	VV	186	4851	0.20%	0.061%
277	14.258	14.247	14.270	PV	96	801	0.03%	0.010%
278	14.303	14.270	14.364	VV	281	9161	0.38%	0.115%
279	14.379	14.364	14.417	VV	146	2168	0.09%	0.027%
280	14.443	14.417	14.457	PV	640	8059	0.34%	0.102%
281	14.484	14.457	14.585	VV	2112	61471	2.57%	0.775%
282	14.596	14.585	14.615	VV	176	2637	0.11%	0.033%
283	14.644	14.615	14.665	VV	3098	41612	1.74%	0.524%
284	14.682	14.665	14.708	VV	1074	21880	0.91%	0.276%
285	14.730	14.708	14.784	VV	1014	32070	1.34%	0.404%
286	14.802	14.784	14.827	VV	626	10720	0.45%	0.135%
287	14.851	14.827	14.862	VV	331	6016	0.25%	0.076%
288	14.886	14.862	14.942	VV	1217	29229	1.22%	0.368%
289	14.984	14.942	15.027	VV	170780	2396230	100.00%	30.192%
290	15.037	15.027	15.124	VV	1257	32273	1.35%	0.407%
291	15.153	15.124	15.167	VV	1376	22103	0.92%	0.278%
292	15.186	15.167	15.214	VV	5465	73178	3.05%	0.922%
293	15.234	15.214	15.269	VV	846	13952	0.58%	0.176%
294	15.309	15.269	15.352	VV	179	5123	0.21%	0.065%
295	15.382	15.352	15.422	VV	489	8766	0.37%	0.110%
296	15.434	15.422	15.444	VV	109	782	0.03%	0.010%
297	15.516	15.444	15.537	PV	418	9479	0.40%	0.119%
298	15.570	15.537	15.675	VV	48258	936586	39.09%	11.801%
299	15.707	15.675	15.750	VV	7357	120875	5.04%	1.523%

rteres

300	15.774	15.750	15.805	VV	2171	35963	1.50%	0.453%
301	15.843	15.805	15.869	VV	831	18829	0.79%	0.237%
302	15.881	15.869	15.920	VV	426	7088	0.30%	0.089%
303	16.030	15.920	16.060	VV	1196	38381	1.60%	0.484%
304	16.095	16.060	16.155	VV	1836	41387	1.73%	0.521%
305	16.209	16.155	16.252	VV	7156	102581	4.28%	1.292%
306	16.275	16.252	16.312	VV	1132	15837	0.66%	0.200%
307	16.345	16.312	16.369	PV	217	3684	0.15%	0.046%
308	16.405	16.369	16.437	PV	484	9504	0.40%	0.120%
309	16.441	16.437	16.448	VV	182	934	0.04%	0.012%
310	16.457	16.448	16.473	VV	74	1141	0.05%	0.014%
311	16.508	16.473	16.545	PV	629	17344	0.72%	0.219%
312	16.594	16.545	16.642	VV	5586	124366	5.19%	1.567%
313	16.694	16.642	16.730	VV	7778	123584	5.16%	1.557%
314	16.770	16.730	16.809	VV	1351	29802	1.24%	0.375%
315	16.843	16.809	16.869	VV	694	15431	0.64%	0.194%
316	16.893	16.869	16.909	VV	702	10392	0.43%	0.131%
317	17.017	16.909	17.040	VV	1882	66180	2.76%	0.834%
318	17.077	17.040	17.114	VV	904	31417	1.31%	0.396%
319	17.162	17.114	17.188	VV	6724	100630	4.20%	1.268%
320	17.209	17.188	17.227	VV	4158	54905	2.29%	0.692%
321	17.241	17.227	17.272	VV	2656	35695	1.49%	0.450%
322	17.291	17.272	17.320	PV	204	3479	0.15%	0.044%
			Sum of corrected areas:			7936688		

FG042425.M Thu May 22 01:29:58 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG052125\
Data File : FG015881.D
Signal(s) : FID1A.ch
Acq On : 21 May 2025 18:07
Operator : YP\AJ
Sample : Q2074-03
Misc :
ALS Vial : 33 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: May 22 00:42:57 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG042425.M
Quant Title :
QLast Update : Thu Apr 24 12:54:09 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal Phase : Rxi-1ms
Signal Info : 20mx0.18mmx0.18um

Instrument :
FID_G
ClientSampleId :
TP-15

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 05/22/2025
Supervised By :mohammad ahmed 05/23/2025

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
9) S TETRACOSANE-d50 (SURR...	14.984	1502986	12.766 ug/mlm
Target Compounds			

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

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG052125\
Data File : FG015881.D
Signal(s) : FID1A.ch
Acq On : 21 May 2025 18:07
Operator : YP\AJ
Sample : Q2074-03
Misc :
ALS Vial : 33 Sample Multiplier: 1

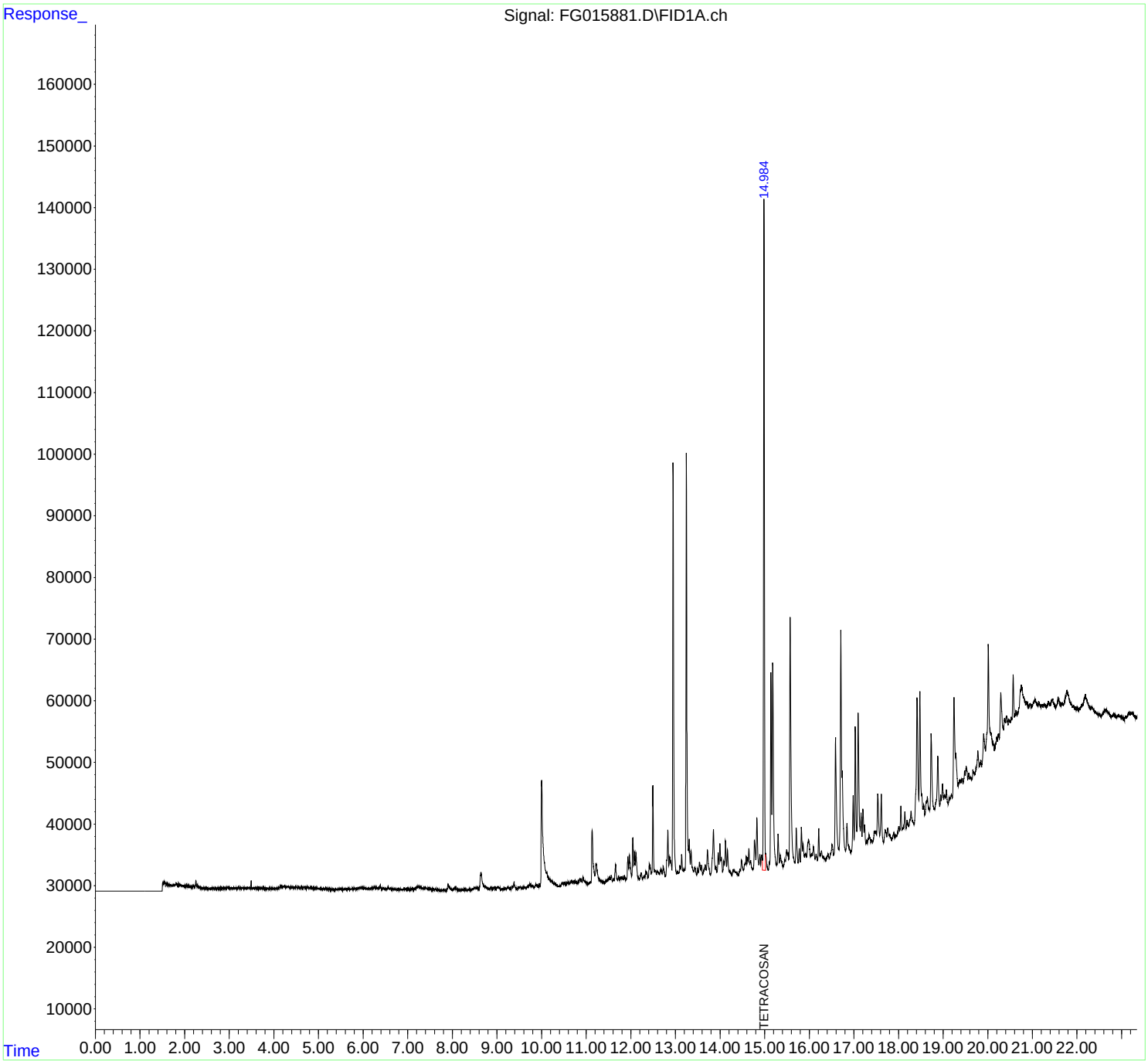
Integration File: autoint1.e
Quant Time: May 22 00:42:57 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG042425.M
Quant Title :
QLast Update : Thu Apr 24 12:54:09 2025
Response via : Initial Calibration
Integrator: ChemStation

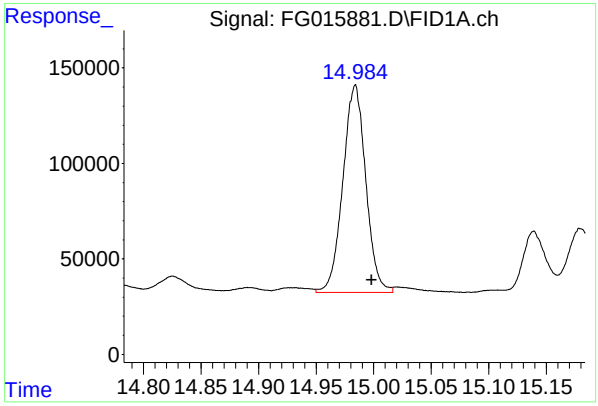
Volume Inj. : 1uL
Signal Phase : Rxi-1ms
Signal Info : 20mx0.18mmx0.18um

Instrument :
FID_G
ClientSampleId :
TP-15

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 05/22/2025
Supervised By :mohammad ahmed 05/23/2025





#9 TETRACOSANE-d50 (SURROGATE)

R.T.: 14.984 min
Delta R.T.: -0.014 mir
Response: 1502986
Conc: 12.77 ug/m

Instrument :
FID_G
ClientSampleId :
TP-15

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 05/22/2025
Supervised By :mohammad ahmed 05/23/2025

11

A B C D E F G H I J

11

Instrument :
FID_G
ClientSampleId :
TP-15

rteres

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 05/22/2025
Supervised By :mohammad ahmed 05/23/2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG05212
Data File : FG015881.D
Signal(s) : FID1A.ch
Acq On : 21 May 2025 18:07
Sample : Q2074-03
Misc :
ALS Vial : 33 Sample Multiplier: 1

Integration File: Sample.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG042425.M
Title :

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.313	4.300	4.335	BV	124	1859	0.12%	0.012%
2	4.339	4.335	4.348	VV	148	772	0.05%	0.005%
3	4.351	4.348	4.364	VV	124	723	0.05%	0.005%
4	4.375	4.364	4.409	PV	132	2254	0.14%	0.015%
5	4.419	4.409	4.435	VV	141	1351	0.09%	0.009%
6	4.452	4.435	4.458	VV	207	1323	0.09%	0.009%
7	4.462	4.458	4.473	VV	117	940	0.06%	0.006%
8	4.495	4.473	4.538	VV	210	5368	0.35%	0.036%
9	4.551	4.538	4.561	VV	200	2074	0.13%	0.014%
10	4.569	4.561	4.579	VV	221	1351	0.09%	0.009%
11	4.582	4.579	4.592	VV	119	747	0.05%	0.005%
12	4.616	4.592	4.631	VV	396	3845	0.25%	0.026%
13	4.670	4.631	4.694	VV	339	6241	0.40%	0.042%
14	4.699	4.694	4.721	VV	167	1681	0.11%	0.011%
15	4.746	4.721	4.753	PV	295	3577	0.23%	0.024%
16	4.757	4.753	4.763	VV	310	1744	0.11%	0.012%
17	4.767	4.763	4.792	VV	298	3863	0.25%	0.026%
18	4.800	4.792	4.807	VV	236	1825	0.12%	0.012%
19	4.816	4.807	4.825	VV	245	2363	0.15%	0.016%
20	4.829	4.825	4.842	VV	187	1942	0.12%	0.013%
21	4.844	4.842	4.879	VV	191	3617	0.23%	0.024%
22	4.891	4.879	4.908	VV	218	2628	0.17%	0.018%
23	4.920	4.908	4.929	VV	200	2128	0.14%	0.014%
24	4.931	4.929	4.938	VV	183	842	0.05%	0.006%
25	4.955	4.938	4.960	VV	225	2056	0.13%	0.014%
26	4.964	4.960	4.980	VV	175	1824	0.12%	0.012%
27	4.981	4.980	5.002	VV	207	1320	0.08%	0.009%
28	5.015	5.002	5.026	VV	153	1414	0.09%	0.009%
29	5.031	5.026	5.043	VV	139	1005	0.06%	0.007%
30	5.060	5.043	5.069	VV	148	1497	0.10%	0.010%
31	5.073	5.069	5.084	VV	115	927	0.06%	0.006%
32	5.090	5.084	5.135	VV	240	2750	0.18%	0.018%
33	5.137	5.135	5.143	VV	134	433	0.03%	0.003%
34	5.154	5.143	5.175	VV	202	2571	0.17%	0.017%
35	5.178	5.175	5.185	VV	117	658	0.04%	0.004%
36	5.189	5.185	5.202	VV	177	945	0.06%	0.006%

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					rteres			
37	5.207	5.202	5.232	VV	120	1512	0.10%	0.010%
38	5.241	5.232	5.245	VV	93	483		
39	5.252	5.245	5.274	VV	106	1105		
40	5.279	5.274	5.283	PV	104	315		
41	5.305	5.283	5.315	PV	146	1188		
42	5.319	5.315	5.325	VV	84	405		
43	5.335	5.325	5.340	VV	131	622	0.04%	0.004%
44	5.344	5.340	5.368	VV	90	849	0.05%	0.006%
45	5.373	5.368	5.395	VV	137	1219	0.08%	0.008%
46	5.407	5.395	5.410	VV	135	691	0.04%	0.005%
47	5.415	5.410	5.423	VV	80	535	0.03%	0.004%
48	5.428	5.423	5.436	VV	122	620	0.04%	0.004%
49	5.442	5.436	5.453	VV	111	757	0.05%	0.005%
50	5.474	5.453	5.484	VV	209	2697	0.17%	0.018%
51	5.487	5.484	5.508	VV	173	1652	0.11%	0.011%
52	5.537	5.508	5.551	VV	167	2511	0.16%	0.017%
53	5.557	5.551	5.573	VV	132	1294	0.08%	0.009%
54	5.577	5.573	5.592	VV	128	992	0.06%	0.007%
55	5.597	5.592	5.603	VV	93	582	0.04%	0.004%
56	5.605	5.603	5.609	VV	124	359	0.02%	0.002%
57	5.613	5.609	5.629	VV	161	1021	0.07%	0.007%
58	5.641	5.629	5.651	VV	177	1741	0.11%	0.012%
59	5.656	5.651	5.670	VV	177	1203	0.08%	0.008%
60	5.674	5.670	5.683	VV	142	653	0.04%	0.004%
61	5.691	5.683	5.702	VV	201	1128	0.07%	0.008%
62	5.709	5.702	5.714	VV	188	940	0.06%	0.006%
63	5.719	5.714	5.728	VV	158	1026	0.07%	0.007%
64	5.742	5.728	5.747	VV	206	1813	0.12%	0.012%
65	5.757	5.747	5.768	VV	242	2128	0.14%	0.014%
66	5.772	5.768	5.780	VV	232	1164	0.07%	0.008%
67	5.829	5.780	5.854	VV	295	9141	0.59%	0.061%
68	5.863	5.854	5.870	VV	286	2233	0.14%	0.015%
69	5.891	5.870	5.902	VV	326	5218	0.34%	0.035%
70	5.929	5.902	5.935	VV	392	6887	0.44%	0.046%
71	5.940	5.935	5.964	VV	387	5661	0.36%	0.038%
72	5.977	5.964	6.030	VV	398	12291	0.79%	0.082%
73	6.032	6.030	6.076	VV	303	6397	0.41%	0.043%
74	6.098	6.076	6.105	VV	279	4010	0.26%	0.027%
75	6.119	6.105	6.127	VV	294	3083	0.20%	0.021%
76	6.136	6.127	6.152	VV	278	3338	0.21%	0.022%
77	6.165	6.152	6.189	VV	306	5625	0.36%	0.038%
78	6.203	6.189	6.234	VV	421	9383	0.60%	0.063%
79	6.261	6.234	6.295	VV	491	14461	0.93%	0.097%
80	6.298	6.295	6.335	VV	414	8245	0.53%	0.055%
81	6.339	6.335	6.343	VV	355	1733	0.11%	0.012%
82	6.348	6.343	6.353	VV	366	2089	0.13%	0.014%
83	6.361	6.353	6.367	VV	449	3128	0.20%	0.021%
84	6.384	6.367	6.425	VV	719	14644	0.94%	0.098%
85	6.438	6.425	6.466	VV	369	6531	0.42%	0.044%
86	6.474	6.466	6.489	VV	296	3258	0.21%	0.022%
87	6.491	6.489	6.495	VV	273	777	0.05%	0.005%
88	6.498	6.495	6.509	VV	238	1733	0.11%	0.012%
89	6.515	6.509	6.522	VV	210	1356	0.09%	0.009%

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90	6.559	6.522	6.574	VV	432	9103	0.59%	0.061%
91	6.579	6.574	6.594	VV	332	3351		
92	6.599	6.594	6.606	VV	284	1652		
93	6.610	6.606	6.620	VV	251	1913		
94	6.625	6.620	6.646	VV	214	3032		
95	6.660	6.646	6.677	VV	249	3514		
96	6.686	6.677	6.782	VV	231	9247	0.59%	0.062%
97	6.790	6.782	6.842	VV	163	4157	0.27%	0.028%
98	6.855	6.842	6.880	VV	158	2878	0.19%	0.019%
99	6.891	6.880	6.903	VV	184	1814	0.12%	0.012%
100	6.922	6.903	6.932	VV	224	3105	0.20%	0.021%
101	6.940	6.932	6.951	VV	210	2063	0.13%	0.014%
102	6.972	6.951	7.017	VV	268	7941	0.51%	0.053%
103	7.029	7.017	7.063	VV	229	5006	0.32%	0.034%
104	7.071	7.063	7.114	VV	208	5219	0.34%	0.035%
105	7.223	7.114	7.247	VV	587	29023	1.87%	0.194%
106	7.268	7.247	7.341	VV	635	25639	1.65%	0.172%
107	7.388	7.341	7.446	VV	605	24950	1.60%	0.167%
108	7.454	7.446	7.525	VV	346	11159	0.72%	0.075%
109	7.531	7.525	7.549	VV	220	2719	0.17%	0.018%
110	7.560	7.549	7.595	VV	249	5185	0.33%	0.035%
111	7.641	7.595	7.680	VV	211	7141	0.46%	0.048%
112	7.687	7.680	7.696	VV	120	864	0.06%	0.006%
113	7.731	7.696	7.748	VV	155	2709	0.17%	0.018%
114	7.757	7.748	7.772	VV	82	1078	0.07%	0.007%
115	7.796	7.772	7.816	VV	108	2086	0.13%	0.014%
116	7.825	7.816	7.839	PV	84	590	0.04%	0.004%
117	7.851	7.839	7.870	VV	143	1239	0.08%	0.008%
118	7.904	7.870	7.985	VV	1079	29270	1.88%	0.196%
119	8.050	7.985	8.062	VV	412	9997	0.64%	0.067%
120	8.077	8.062	8.186	VV	673	12619	0.81%	0.084%
121	8.199	8.186	8.212	VV	87	769	0.05%	0.005%
122	8.224	8.212	8.235	PV	54	522	0.03%	0.003%
123	8.263	8.235	8.344	VV	186	5508	0.35%	0.037%
124	8.369	8.344	8.382	VV	173	1798	0.12%	0.012%
125	8.390	8.382	8.408	VV	119	1353	0.09%	0.009%
126	8.511	8.408	8.530	VV	426	17136	1.10%	0.115%
127	8.537	8.530	8.584	VV	419	9978	0.64%	0.067%
128	8.641	8.584	8.812	VV	2861	120485	7.75%	0.807%
129	8.838	8.812	8.850	VV	274	4472	0.29%	0.030%
130	8.866	8.850	8.901	VV	494	7750	0.50%	0.052%
131	8.938	8.901	8.980	PV	439	11693	0.75%	0.078%
132	9.014	8.980	9.031	VV	455	9524	0.61%	0.064%
133	9.045	9.031	9.112	VV	351	8445	0.54%	0.057%
134	9.119	9.112	9.129	VV	94	757	0.05%	0.005%
135	9.166	9.129	9.184	PV	207	3331	0.21%	0.022%
136	9.196	9.184	9.208	VV	184	1988	0.13%	0.013%
137	9.236	9.208	9.258	VV	408	7001	0.45%	0.047%
138	9.273	9.258	9.305	VV	261	4792	0.31%	0.032%
139	9.340	9.305	9.362	VV	589	9773	0.63%	0.065%
140	9.383	9.362	9.455	VV	1129	23428	1.51%	0.157%
141	9.497	9.455	9.509	PV	339	5914	0.38%	0.040%

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142	9.527	9.509	9.567	VV	318	6636	0.43%	0.044%
143	9.621	9.567	9.652	VV	286	9433		
144	9.736	9.652	9.772	VV	811	28054		
145	9.793	9.772	9.824	VV	482	10276		
146	9.873	9.824	9.934	VV	605	21174		
147	9.950	9.934	9.966	VV	694	8406		
148	10.001	9.966	10.105	VV	17288	518637	33.35%	3.473%
149	10.114	10.105	10.179	VV	2483	79832	5.13%	0.535%
150	10.182	10.179	10.215	VV	1318	24072	1.55%	0.161%
151	10.225	10.215	10.275	VV	978	27872	1.79%	0.187%
152	10.288	10.275	10.365	VV	518	19246	1.24%	0.129%
153	10.384	10.365	10.403	VV	155	1947	0.13%	0.013%
154	10.460	10.403	10.480	VV	596	13141	0.84%	0.088%
155	10.515	10.480	10.550	VV	635	16974	1.09%	0.114%
156	10.574	10.550	10.582	VV	590	8665	0.56%	0.058%
157	10.592	10.582	10.627	VV	625	14382	0.92%	0.096%
158	10.654	10.627	10.662	VV	746	11356	0.73%	0.076%
159	10.680	10.662	10.700	VV	870	15226	0.98%	0.102%
160	10.718	10.700	10.740	VV	719	15187	0.98%	0.102%
161	10.745	10.740	10.762	VV	671	7656	0.49%	0.051%
162	10.784	10.762	10.802	VV	614	12800	0.82%	0.086%
163	10.858	10.802	10.875	VV	1181	32040	2.06%	0.215%
164	10.888	10.875	10.908	VV	910	14701	0.95%	0.098%
165	10.930	10.908	11.024	VV	1361	44987	2.89%	0.301%
166	11.045	11.024	11.058	VV	288	4421	0.28%	0.030%
167	11.083	11.058	11.090	VV	371	5433	0.35%	0.036%
168	11.133	11.090	11.195	VV	8734	204161	13.13%	1.367%
169	11.220	11.195	11.360	VV	3348	137154	8.82%	0.918%
170	11.371	11.360	11.415	VV	375	9362	0.60%	0.063%
171	11.444	11.415	11.459	VV	576	9893	0.64%	0.066%
172	11.495	11.459	11.504	VV	807	16648	1.07%	0.111%
173	11.525	11.504	11.547	VV	978	20991	1.35%	0.141%
174	11.563	11.547	11.586	VV	1272	19374	1.25%	0.130%
175	11.609	11.586	11.624	VV	728	12421	0.80%	0.083%
176	11.659	11.624	11.704	VV	3044	67074	4.31%	0.449%
177	11.725	11.704	11.744	VV	1132	18366	1.18%	0.123%
178	11.763	11.744	11.779	VV	938	14953	0.96%	0.100%
179	11.796	11.779	11.835	VV	945	25586	1.65%	0.171%
180	11.854	11.835	11.899	VV	1042	27003	1.74%	0.181%
181	11.934	11.899	11.951	VV	4135	67265	4.32%	0.450%
182	11.969	11.951	12.020	VV	4422	108037	6.95%	0.723%
183	12.045	12.020	12.065	VV	6994	112899	7.26%	0.756%
184	12.081	12.065	12.100	VV	4901	77965	5.01%	0.522%
185	12.115	12.100	12.197	VV	4740	106301	6.83%	0.712%
186	12.233	12.197	12.260	VV	1372	32215	2.07%	0.216%
187	12.292	12.260	12.304	VV	882	16443	1.06%	0.110%
188	12.346	12.304	12.389	VV	1539	54631	3.51%	0.366%
189	12.416	12.389	12.455	VV	2796	72676	4.67%	0.487%
190	12.494	12.455	12.534	VV	15414	224082	14.41%	1.500%
191	12.548	12.534	12.572	VV	1685	33233	2.14%	0.223%
192	12.589	12.572	12.644	VV	1635	55828	3.59%	0.374%
193	12.678	12.644	12.705	VV	1736	52256	3.36%	0.350%
194	12.724	12.705	12.779	VV	2278	59711	3.84%	0.400%

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195	12.829	12.779	12.850	VV	8112	162083	10.42%	1.085%
196	12.871	12.850	12.920	VV	3707	119560	7	
197	12.946	12.920	13.032	VV	67439	1034027	66	
198	13.049	13.032	13.077	VV	1349	30574	1	
199	13.102	13.077	13.122	VV	2146	46669	3	
200	13.138	13.122	13.182	VV	3872	79433	5	
201	13.203	13.182	13.215	VV	1554	29191	1.88%	0.195%
202	13.244	13.215	13.292	VV	68856	989622	63.63%	6.626%
203	13.308	13.292	13.330	VV	6416	108129	6.95%	0.724%
204	13.348	13.330	13.407	VV	4476	113231	7.28%	0.758%
205	13.435	13.407	13.475	VV	1771	51278	3.30%	0.343%
206	13.493	13.475	13.509	VV	1566	22108	1.42%	0.148%
207	13.539	13.509	13.566	VV	2563	60244	3.87%	0.403%
208	13.584	13.566	13.615	VV	2027	40042	2.57%	0.268%
209	13.669	13.615	13.692	VV	2086	61813	3.97%	0.414%
210	13.718	13.692	13.785	VV	4455	114063	7.33%	0.764%
211	13.850	13.785	13.894	VV	7730	205836	13.23%	1.378%
212	13.907	13.894	13.930	VV	1589	28215	1.81%	0.189%
213	13.957	13.930	13.975	VV	3931	64831	4.17%	0.434%
214	13.995	13.975	14.017	VV	5234	94178	6.06%	0.631%
215	14.029	14.017	14.060	VV	3067	54443	3.50%	0.365%
216	14.082	14.060	14.097	VV	2404	40772	2.62%	0.273%
217	14.121	14.097	14.147	VV	5813	101346	6.52%	0.679%
218	14.165	14.147	14.268	VV	4369	101685	6.54%	0.681%
219	14.295	14.268	14.412	VV	1025	47011	3.02%	0.315%
220	14.443	14.412	14.455	PV	992	14008	0.90%	0.094%
221	14.482	14.455	14.529	VV	2487	60345	3.88%	0.404%
222	14.585	14.529	14.600	VV	2948	76835	4.94%	0.514%
223	14.616	14.600	14.627	VV	2614	36120	2.32%	0.242%
224	14.645	14.627	14.665	VV	4100	65873	4.24%	0.441%
225	14.683	14.665	14.735	VV	2137	54577	3.51%	0.365%
226	14.772	14.735	14.800	VV	5248	110321	7.09%	0.739%
227	14.825	14.800	14.870	VV	8866	174121	11.20%	1.166%
228	14.892	14.870	14.910	VV	2800	47321	3.04%	0.317%
229	14.929	14.910	14.950	VV	2618	50535	3.25%	0.338%
230	14.984	14.950	15.079	VV	108828	1555278	100.00%	10.414%
231	15.139	15.079	15.160	VV	31877	453199	29.14%	3.035%
232	15.180	15.160	15.274	VV	33080	653594	42.02%	4.376%
233	15.300	15.274	15.330	VV	5589	93299	6.00%	0.625%
234	15.351	15.330	15.415	VV	2108	54907	3.53%	0.368%
235	15.451	15.415	15.469	VV	1274	25561	1.64%	0.171%
236	15.494	15.469	15.514	VV	2829	58036	3.73%	0.389%
237	15.525	15.514	15.541	VV	2262	30279	1.95%	0.203%
238	15.570	15.541	15.675	VV	39941	812272	52.23%	5.439%
239	15.708	15.675	15.750	VV	6060	111910	7.20%	0.749%
240	15.775	15.750	15.799	VV	2624	38389	2.47%	0.257%
241	15.823	15.799	15.847	VV	5993	96384	6.20%	0.645%
242	15.860	15.847	15.892	VV	3303	61872	3.98%	0.414%
243	15.919	15.892	15.939	VV	1636	39397	2.53%	0.264%
244	15.984	15.939	16.034	VV	3811	139650	8.98%	0.935%
245	16.050	16.034	16.065	VV	1329	23011	1.48%	0.154%
246	16.094	16.065	16.130	VV	2612	61374	3.95%	0.411%

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247	16.151	16.130	16.184	VV	1294	23833	1.53%	0.160%
248	16.211	16.184	16.234	VV	5277	71614	4	
249	16.273	16.234	16.319	VV	1556	47997	3	
250	16.324	16.319	16.367	VV	470	7025	0	
251	16.419	16.367	16.447	PV	892	18881	1	
252	16.511	16.447	16.544	PV	2184	63438	4	
253	16.587	16.544	16.658	VV	19272	418561	26.91%	2.803%
254	16.706	16.658	16.813	VV	36411	859809	55.28%	5.757%
255	16.844	16.813	16.929	VV	4868	103848	6.68%	0.695%
256	16.982	16.929	17.007	PV	8933	137377	8.83%	0.920%
257	17.030	17.007	17.064	VV	20009	311096	20.00%	2.083%
258	17.094	17.064	17.142	VV	21771	443642	28.52%	2.971%
259	17.160	17.142	17.181	VV	5343	86494	5.56%	0.579%
260	17.203	17.181	17.225	VV	5810	103736	6.67%	0.695%
261	17.240	17.225	17.266	VV	3252	46829	3.01%	0.314%
262	17.283	17.266	17.292	VV	374	4473	0.29%	0.030%
263	17.339	17.292	17.387	VV	1339	34185	2.20%	0.229%

Sum of corrected areas: 14934341

FG042425.M Thu May 22 01:31:29 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF052125\
Data File : FF015883.D
Signal(s) : FID2B.ch
Acq On : 21 May 2025 14:43
Operator : YP\AJ
Sample : Q2074-04
Misc :
ALS Vial : 34 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
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Integration File: autoint1.e
Quant Time: May 21 23:37:07 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF052125.M
Quant Title :
QLast Update : Wed May 21 12:32:51 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...	15.019	1348791	11.043 ug/ml
Target Compounds			

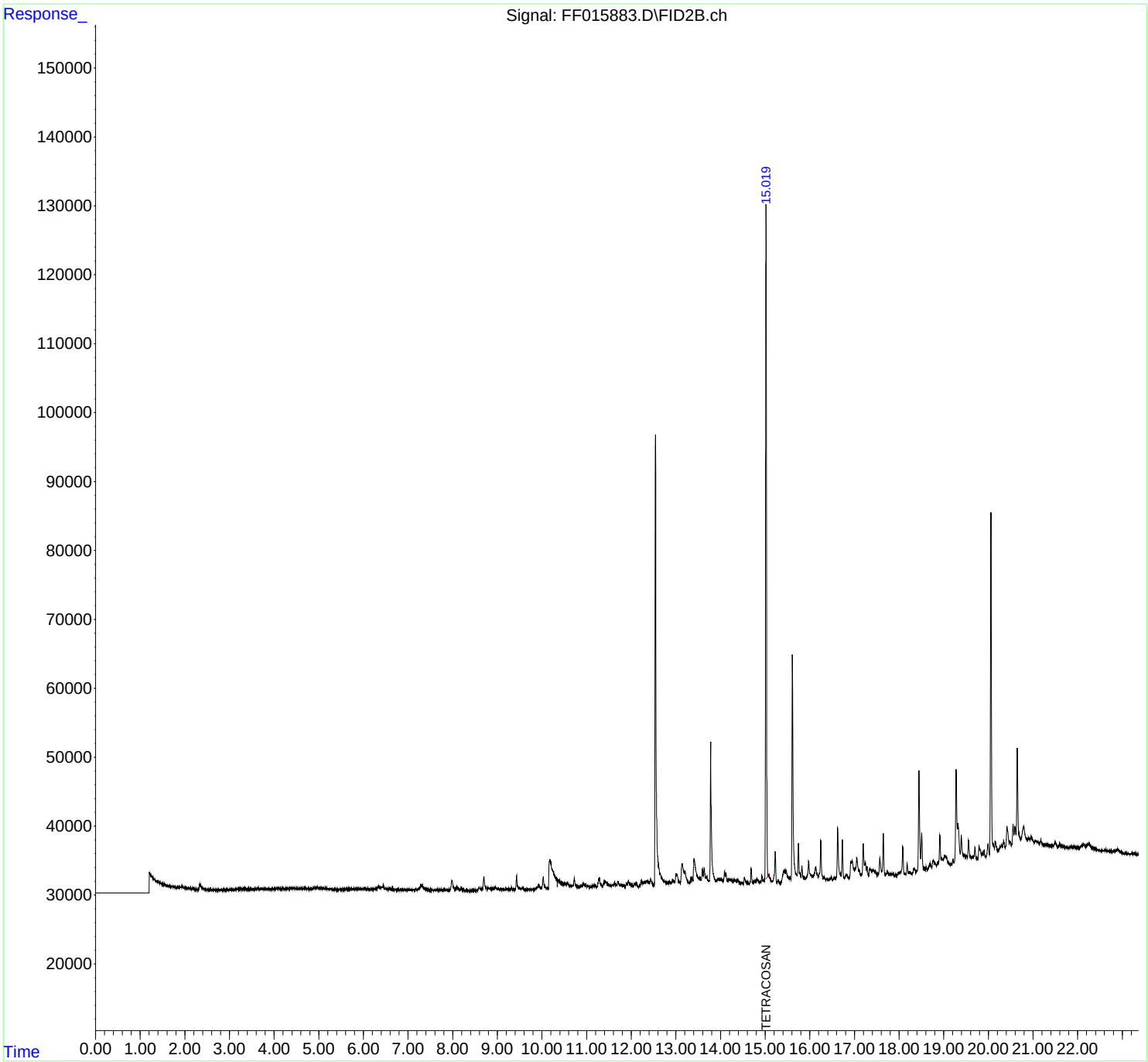
(f)=RT Delta > 1/2 Window (m)=manual int.

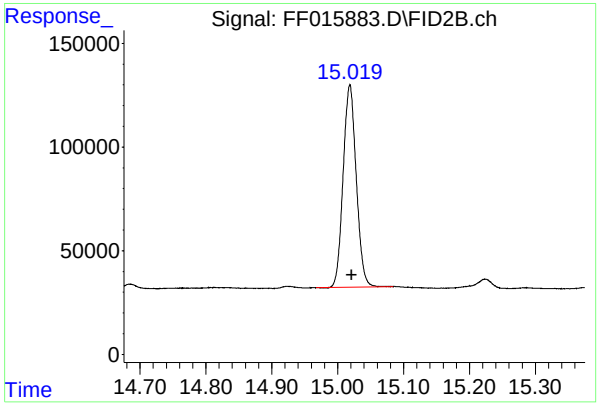
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF052125\
Data File : FF015883.D
Signal(s) : FID2B.ch
Acq On : 21 May 2025 14:43
Operator : YP\AJ
Sample : Q2074-04
Misc :
ALS Vial : 34 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
TP-20

Integration File: autoint1.e
Quant Time: May 21 23:37:07 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF052125.M
Quant Title :
QLast Update : Wed May 21 12:32:51 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.:	15.019 min
Delta R.T.:	-0.002 mi
Response:	1348791
Conc:	11.04 ug/m

Instrument :
FID_F
ClientSampleId :
TP-20

11

A B C D E F G H I J

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF052125\
Data File : FF015883.D
Signal(s) : FID2B.ch
Acq On : 21 May 2025 14:43
Sample : Q2074-04
Misc :
ALS Vial : 34 Sample Multiplier: 1

Integration File: Sample.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF052125.M
Title :

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.050	4.018	4.064	BV	133	909	0.06%	0.011%
2	4.078	4.064	4.085	PV	121	1107	0.08%	0.014%
3	4.107	4.085	4.120	VV	172	1718	0.12%	0.021%
4	4.125	4.120	4.149	VV	142	1397	0.10%	0.017%
5	4.164	4.149	4.176	PV	103	1120	0.08%	0.014%
6	4.180	4.176	4.197	VV	133	1402	0.10%	0.017%
7	4.200	4.197	4.247	VV	178	3516	0.25%	0.043%
8	4.259	4.247	4.265	VV	183	1086	0.08%	0.013%
9	4.269	4.265	4.280	VV	136	923	0.06%	0.011%
10	4.287	4.280	4.293	VV	156	776	0.05%	0.010%
11	4.296	4.293	4.326	VV	164	2433	0.17%	0.030%
12	4.331	4.326	4.339	VV	128	749	0.05%	0.009%
13	4.343	4.339	4.349	VV	170	734	0.05%	0.009%
14	4.357	4.349	4.368	VV	232	1836	0.13%	0.023%
15	4.382	4.368	4.408	VV	295	5055	0.35%	0.062%
16	4.430	4.408	4.447	VV	210	3492	0.24%	0.043%
17	4.457	4.447	4.473	VV	237	2221	0.15%	0.027%
18	4.477	4.473	4.492	VV	180	1625	0.11%	0.020%
19	4.501	4.492	4.514	VV	181	1897	0.13%	0.023%
20	4.518	4.514	4.551	VV	199	2500	0.17%	0.031%
21	4.566	4.551	4.582	VV	153	2053	0.14%	0.025%
22	4.590	4.582	4.598	VV	164	1224	0.09%	0.015%
23	4.606	4.598	4.611	VV	204	1062	0.07%	0.013%
24	4.615	4.611	4.619	VV	199	746	0.05%	0.009%
25	4.624	4.619	4.640	VV	223	1563	0.11%	0.019%
26	4.646	4.640	4.657	VV	164	1076	0.08%	0.013%
27	4.691	4.657	4.744	VV	412	9695	0.68%	0.119%
28	4.749	4.744	4.753	VV	166	664	0.05%	0.008%
29	4.777	4.753	4.789	VV	184	2230	0.16%	0.027%
30	4.807	4.789	4.829	VV	177	3282	0.23%	0.040%
31	4.836	4.829	4.845	VV	282	1716	0.12%	0.021%
32	4.852	4.845	4.868	VV	201	2593	0.18%	0.032%
33	4.903	4.868	4.908	VV	336	6040	0.42%	0.074%
34	4.921	4.908	4.926	VV	298	2933	0.20%	0.036%
35	4.936	4.926	4.948	VV	334	3766	0.26%	0.046%
36	4.957	4.948	4.961	VV	339	2206	0.15%	0.027%

rteres

37	4.966	4.961	4.971	VV	314	1773	0.12%	0.022%
38	4.975	4.971	5.017	VV	334	8039	0.56%	0.099%
39	5.026	5.017	5.082	VV	374	10242	0.71%	0.126%
40	5.089	5.082	5.106	VV	251	3082	0.22%	0.038%
41	5.114	5.106	5.132	VV	222	2857	0.20%	0.035%
42	5.146	5.132	5.169	VV	463	4286	0.30%	0.053%
43	5.178	5.169	5.185	VV	228	1840	0.13%	0.023%
44	5.191	5.185	5.196	VV	162	988	0.07%	0.012%
45	5.201	5.196	5.206	VV	143	834	0.06%	0.010%
46	5.210	5.206	5.216	VV	165	910	0.06%	0.011%
47	5.224	5.216	5.256	VV	160	2918	0.20%	0.036%
48	5.261	5.256	5.267	VV	179	722	0.05%	0.009%
49	5.273	5.267	5.322	VV	143	2739	0.19%	0.034%
50	5.350	5.322	5.376	VV	202	2854	0.20%	0.035%
51	5.379	5.376	5.396	VV	117	868	0.06%	0.011%
52	5.402	5.396	5.431	VV	105	998	0.07%	0.012%
53	5.437	5.431	5.454	VV	106	769	0.05%	0.009%
54	5.457	5.454	5.465	VV	94	372	0.03%	0.005%
55	5.501	5.465	5.509	VV	141	1658	0.12%	0.020%
56	5.513	5.509	5.518	VV	98	286	0.02%	0.004%
57	5.524	5.518	5.529	VV	118	411	0.03%	0.005%
58	5.542	5.529	5.551	VV	131	1269	0.09%	0.016%
59	5.555	5.551	5.570	VV	130	1015	0.07%	0.013%
60	5.578	5.570	5.582	VV	120	595	0.04%	0.007%
61	5.588	5.582	5.594	VV	120	683	0.05%	0.008%
62	5.599	5.594	5.606	VV	180	832	0.06%	0.010%
63	5.619	5.606	5.634	VV	169	1668	0.12%	0.021%
64	5.638	5.634	5.645	VV	102	513	0.04%	0.006%
65	5.671	5.645	5.706	VV	265	4374	0.31%	0.054%
66	5.710	5.706	5.757	VV	155	4162	0.29%	0.051%
67	5.761	5.757	5.764	VV	176	552	0.04%	0.007%
68	5.779	5.764	5.812	VV	224	4812	0.34%	0.059%
69	5.819	5.812	5.847	VV	175	3161	0.22%	0.039%
70	5.850	5.847	5.857	VV	142	1042	0.07%	0.013%
71	5.862	5.857	5.879	VV	225	2065	0.14%	0.025%
72	5.892	5.879	5.923	VV	235	5056	0.35%	0.062%
73	5.928	5.923	5.935	VV	159	923	0.06%	0.011%
74	5.947	5.935	5.958	VV	212	1961	0.14%	0.024%
75	5.975	5.958	5.980	VV	238	2173	0.15%	0.027%
76	5.993	5.980	5.997	VV	237	2148	0.15%	0.026%
77	6.001	5.997	6.009	VV	257	1685	0.12%	0.021%
78	6.013	6.009	6.033	VV	282	3039	0.21%	0.037%
79	6.049	6.033	6.059	VV	217	2753	0.19%	0.034%
80	6.063	6.059	6.075	VV	211	1750	0.12%	0.022%
81	6.097	6.075	6.117	VV	242	4367	0.30%	0.054%
82	6.127	6.117	6.154	VV	237	3362	0.23%	0.041%
83	6.158	6.154	6.205	VV	157	5147	0.36%	0.063%
84	6.333	6.205	6.370	VV	580	29076	2.03%	0.358%
85	6.375	6.370	6.407	VV	489	9559	0.67%	0.118%
86	6.442	6.407	6.556	VV	782	30829	2.15%	0.380%
87	6.608	6.556	6.636	VV	239	8855	0.62%	0.109%
88	6.648	6.636	6.704	VV	509	5595	0.39%	0.069%
89	6.712	6.704	6.760	VV	147	3520	0.25%	0.043%

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90	6.765	6.760	6.778	VV	166	898	0.06%	0.011%
91	6.796	6.778	6.815	VV	62	1268	0.09%	0.016%
92	6.830	6.815	6.847	VV	188	1620	0.11%	0.020%
93	6.873	6.847	6.930	VV	211	6090	0.42%	0.075%
94	6.938	6.930	6.950	VV	187	1564	0.11%	0.019%
95	6.968	6.950	7.015	VV	162	4295	0.30%	0.053%
96	7.022	7.015	7.035	VV	128	1448	0.10%	0.018%
97	7.043	7.035	7.091	VV	184	3291	0.23%	0.041%
98	7.112	7.091	7.121	VV	123	1861	0.13%	0.023%
99	7.128	7.121	7.154	VV	115	1985	0.14%	0.024%
100	7.176	7.154	7.183	VV	186	2192	0.15%	0.027%
101	7.191	7.183	7.208	VV	187	2341	0.16%	0.029%
102	7.292	7.208	7.304	VV	738	24335	1.70%	0.300%
103	7.317	7.304	7.392	VV	742	23680	1.65%	0.292%
104	7.401	7.392	7.442	VV	277	5922	0.41%	0.073%
105	7.456	7.442	7.551	VV	221	8104	0.57%	0.100%
106	7.567	7.551	7.576	VV	119	1425	0.10%	0.018%
107	7.590	7.576	7.607	PV	113	1680	0.12%	0.021%
108	7.614	7.607	7.629	VV	164	1268	0.09%	0.016%
109	7.657	7.629	7.676	VV	142	3344	0.23%	0.041%
110	7.739	7.676	7.754	VV	225	6960	0.49%	0.086%
111	7.775	7.754	7.793	VV	195	3234	0.23%	0.040%
112	7.813	7.793	7.834	VV	149	3019	0.21%	0.037%
113	7.847	7.834	7.856	VV	170	1743	0.12%	0.021%
114	7.883	7.856	7.901	VV	187	3984	0.28%	0.049%
115	7.984	7.901	8.069	VV	1483	53317	3.72%	0.657%
116	8.097	8.069	8.164	VV	550	18212	1.27%	0.224%
117	8.190	8.164	8.297	VV	433	13609	0.95%	0.168%
118	8.326	8.297	8.357	VV	158	2837	0.20%	0.035%
119	8.365	8.357	8.381	VV	67	514	0.04%	0.006%
120	8.399	8.381	8.429	VV	89	1169	0.08%	0.014%
121	8.453	8.429	8.497	PV	113	2750	0.19%	0.034%
122	8.590	8.497	8.659	VV	525	22326	1.56%	0.275%
123	8.700	8.659	8.769	VV	2060	53212	3.71%	0.656%
124	8.794	8.769	8.844	VV	453	15404	1.07%	0.190%
125	8.850	8.844	8.865	VV	321	3606	0.25%	0.044%
126	8.887	8.865	8.935	VV	365	12150	0.85%	0.150%
127	8.954	8.935	8.992	VV	546	12676	0.88%	0.156%
128	9.015	8.992	9.050	VV	375	8924	0.62%	0.110%
129	9.083	9.050	9.105	VV	327	6897	0.48%	0.085%
130	9.140	9.105	9.180	VV	231	7776	0.54%	0.096%
131	9.205	9.180	9.218	VV	249	4476	0.31%	0.055%
132	9.252	9.218	9.295	VV	263	7398	0.52%	0.091%
133	9.318	9.295	9.366	VV	488	10449	0.73%	0.129%
134	9.382	9.366	9.396	VV	194	2510	0.18%	0.031%
135	9.432	9.396	9.536	VV	2109	48279	3.37%	0.595%
136	9.568	9.536	9.668	VV	426	14689	1.02%	0.181%
137	9.699	9.668	9.707	VV	134	2596	0.18%	0.032%
138	9.721	9.707	9.735	VV	162	2150	0.15%	0.026%
139	9.742	9.735	9.753	VV	134	1112	0.08%	0.014%
140	9.762	9.753	9.784	VV	129	1833	0.13%	0.023%
141	9.800	9.784	9.817	VV	120	1297	0.09%	0.016%

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142	9.866	9.817	9.887	PV	313	8256	0.58%	0.102%
143	9.920	9.887	9.989	VV	826	27609	1.93%	0.340%
144	10.030	9.989	10.119	VV	1854	51418	3.59%	0.633%
145	10.127	10.119	10.141	VV	273	2944	0.21%	0.036%
146	10.184	10.141	10.317	VV	4236	289106	20.17%	3.562%
147	10.325	10.317	10.482	VV	1618	112989	7.88%	1.392%
148	10.520	10.482	10.543	VV	954	29278	2.04%	0.361%
149	10.564	10.543	10.642	VV	896	39081	2.73%	0.481%
150	10.654	10.642	10.682	VV	584	12425	0.87%	0.153%
151	10.725	10.682	10.794	VV	1575	48276	3.37%	0.595%
152	10.802	10.794	10.859	VV	419	12581	0.88%	0.155%
153	10.882	10.859	10.899	VV	560	10034	0.70%	0.124%
154	10.926	10.899	10.963	VV	777	22162	1.55%	0.273%
155	10.982	10.963	11.009	VV	761	15022	1.05%	0.185%
156	11.033	11.009	11.070	VV	436	12062	0.84%	0.149%
157	11.098	11.070	11.110	VV	349	6439	0.45%	0.079%
158	11.141	11.110	11.167	VV	416	11326	0.79%	0.140%
159	11.185	11.167	11.230	VV	602	15009	1.05%	0.185%
160	11.278	11.230	11.358	VV	1510	56561	3.95%	0.697%
161	11.394	11.358	11.407	VV	943	20243	1.41%	0.249%
162	11.429	11.407	11.520	VV	985	46374	3.24%	0.571%
163	11.531	11.520	11.553	VV	458	8172	0.57%	0.101%
164	11.580	11.553	11.602	VV	529	12461	0.87%	0.154%
165	11.624	11.602	11.681	VV	790	25227	1.76%	0.311%
166	11.708	11.681	11.759	VV	925	26108	1.82%	0.322%
167	11.781	11.759	11.809	VV	527	11520	0.80%	0.142%
168	11.828	11.809	11.860	VV	433	9397	0.66%	0.116%
169	11.890	11.860	11.915	VV	716	14673	1.02%	0.181%
170	11.934	11.915	12.000	VV	929	30471	2.13%	0.375%
171	12.016	12.000	12.039	VV	498	7978	0.56%	0.098%
172	12.069	12.039	12.095	VV	614	13697	0.96%	0.169%
173	12.113	12.095	12.155	VV	805	14934	1.04%	0.184%
174	12.226	12.155	12.269	VV	895	33162	2.31%	0.409%
175	12.291	12.269	12.314	VV	879	19839	1.38%	0.244%
176	12.351	12.314	12.414	VV	975	47314	3.30%	0.583%
177	12.436	12.414	12.514	VV	1152	40069	2.80%	0.494%
178	12.543	12.514	12.834	VV	65398	1143224	79.76%	14.084%
179	12.862	12.834	12.885	VV	753	18757	1.31%	0.231%
180	12.925	12.885	12.944	VV	1045	25591	1.79%	0.315%
181	12.951	12.944	12.974	VV	880	13262	0.93%	0.163%
182	12.998	12.974	13.012	VV	1913	31226	2.18%	0.385%
183	13.025	13.012	13.094	VV	1793	50979	3.56%	0.628%
184	13.137	13.094	13.187	VV	3321	118016	8.23%	1.454%
185	13.203	13.187	13.305	VV	2210	80835	5.64%	0.996%
186	13.351	13.305	13.385	VV	1294	44005	3.07%	0.542%
187	13.407	13.385	13.524	VV	3958	173996	12.14%	2.144%
188	13.538	13.524	13.563	VV	1345	25678	1.79%	0.316%
189	13.590	13.563	13.614	VV	2467	50661	3.53%	0.624%
190	13.632	13.614	13.674	VV	2579	65084	4.54%	0.802%
191	13.689	13.674	13.735	VV	1295	35614	2.48%	0.439%
192	13.778	13.735	13.900	VV	20837	411057	28.68%	5.064%
193	13.931	13.900	13.942	VV	870	19231	1.34%	0.237%
194	13.965	13.942	14.000	VV	954	30287	2.11%	0.373%

rteres

195	14.025	14.000	14.055	VV	934	25729	1.80%	0.317%
196	14.089	14.055	14.106	VV	2016	39921	2.79%	0.492%
197	14.120	14.106	14.154	VV	1804	33719	2.35%	0.415%
198	14.182	14.154	14.190	VV	796	15784	1.10%	0.194%
199	14.214	14.190	14.258	VV	854	29464	2.06%	0.363%
200	14.276	14.258	14.290	VV	641	11931	0.83%	0.147%
201	14.316	14.290	14.338	VV	808	20066	1.40%	0.247%
202	14.347	14.338	14.370	VV	722	12527	0.87%	0.154%
203	14.383	14.370	14.460	VV	646	22175	1.55%	0.273%
204	14.482	14.460	14.505	VV	422	7194	0.50%	0.089%
205	14.534	14.505	14.629	VV	1026	33482	2.34%	0.412%
206	14.685	14.629	14.726	VV	2332	41160	2.87%	0.507%
207	14.754	14.726	14.776	VV	459	11626	0.81%	0.143%
208	14.812	14.776	14.882	VV	787	32568	2.27%	0.401%
209	14.893	14.882	14.902	VV	337	3841	0.27%	0.047%
210	14.925	14.902	14.952	VV	1282	23491	1.64%	0.289%
211	14.967	14.952	14.984	VV	604	10913	0.76%	0.134%
212	15.018	14.984	15.151	VV	98615	1433283	100.00%	17.657%
213	15.224	15.151	15.262	VV	4662	95787	6.68%	1.180%
214	15.285	15.262	15.320	VV	528	11200	0.78%	0.138%
215	15.328	15.320	15.340	VV	166	1223	0.09%	0.015%
216	15.423	15.340	15.450	PV	1898	72325	5.05%	0.891%
217	15.465	15.450	15.538	VV	1918	65148	4.55%	0.803%
218	15.554	15.538	15.579	VV	783	16407	1.14%	0.202%
219	15.608	15.579	15.713	VV	33029	597491	41.69%	7.361%
220	15.743	15.713	15.770	VV	5662	97696	6.82%	1.204%
221	15.777	15.770	15.799	VV	1446	20196	1.41%	0.249%
222	15.821	15.799	15.869	VV	2372	50552	3.53%	0.623%
223	15.882	15.869	15.906	VV	643	13022	0.91%	0.160%
224	15.927	15.906	15.935	VV	833	11595	0.81%	0.143%
225	15.972	15.935	16.054	VV	2965	98895	6.90%	1.218%
226	16.066	16.054	16.077	VV	749	10078	0.70%	0.124%
227	16.130	16.077	16.190	VV	2045	83497	5.83%	1.029%
228	16.245	16.190	16.303	VV	5812	120932	8.44%	1.490%
229	16.320	16.303	16.362	VV	582	11033	0.77%	0.136%
230	16.378	16.362	16.409	VV	240	3448	0.24%	0.042%
231	16.428	16.409	16.435	VV	124	888	0.06%	0.011%
232	16.477	16.435	16.515	VV	428	8895	0.62%	0.110%
233	16.554	16.515	16.574	PV	347	6659	0.46%	0.082%
234	16.623	16.574	16.702	VV	7501	152280	10.62%	1.876%
235	16.728	16.702	16.780	VV	5648	81470	5.68%	1.004%
236	16.826	16.780	16.884	VV	599	15817	1.10%	0.195%
237	16.917	16.884	16.935	VV	2307	43749	3.05%	0.539%
238	16.949	16.935	17.004	VV	2536	69914	4.88%	0.861%
239	17.051	17.004	17.099	VV	2828	91097	6.36%	1.122%
240	17.105	17.099	17.145	VV	963	15921	1.11%	0.196%
241	17.195	17.145	17.229	VV	4774	92869	6.48%	1.144%
242	17.243	17.229	17.265	VV	2066	34385	2.40%	0.424%
243	17.281	17.265	17.319	VV	1301	21945	1.53%	0.270%
244	17.343	17.319	17.395	PV	1003	31587	2.20%	0.389%
245	17.416	17.395	17.500	VBA	785	31606	2.21%	0.389%

Sum of corrected areas: 8117258

rteres

FF052125.M Thu May 22 00:02:58 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF052125\
Data File : FF015884.D
Signal(s) : FID2B.ch
Acq On : 21 May 2025 15:12
Operator : YP\AJ
Sample : Q2074-05
Misc :
ALS Vial : 35 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: May 21 23:37:23 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF052125.M
Quant Title :
QLast Update : Wed May 21 12:32:51 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal Phase : Rxi-1ms
Signal Info : 20mx0.18mmx0.18um

Instrument :
FID_F
ClientSampleId :
TP-38

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 05/22/2025
Supervised By :mohammad ahmed 05/23/2025

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
9) S TETRACOSANE-d50 (SURR...	15.018	1664982	13.632 ug/mlm
Target Compounds			

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

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF052125\
Data File : FF015884.D
Signal(s) : FID2B.ch
Acq On : 21 May 2025 15:12
Operator : YP\AJ
Sample : Q2074-05
Misc :
ALS Vial : 35 Sample Multiplier: 1

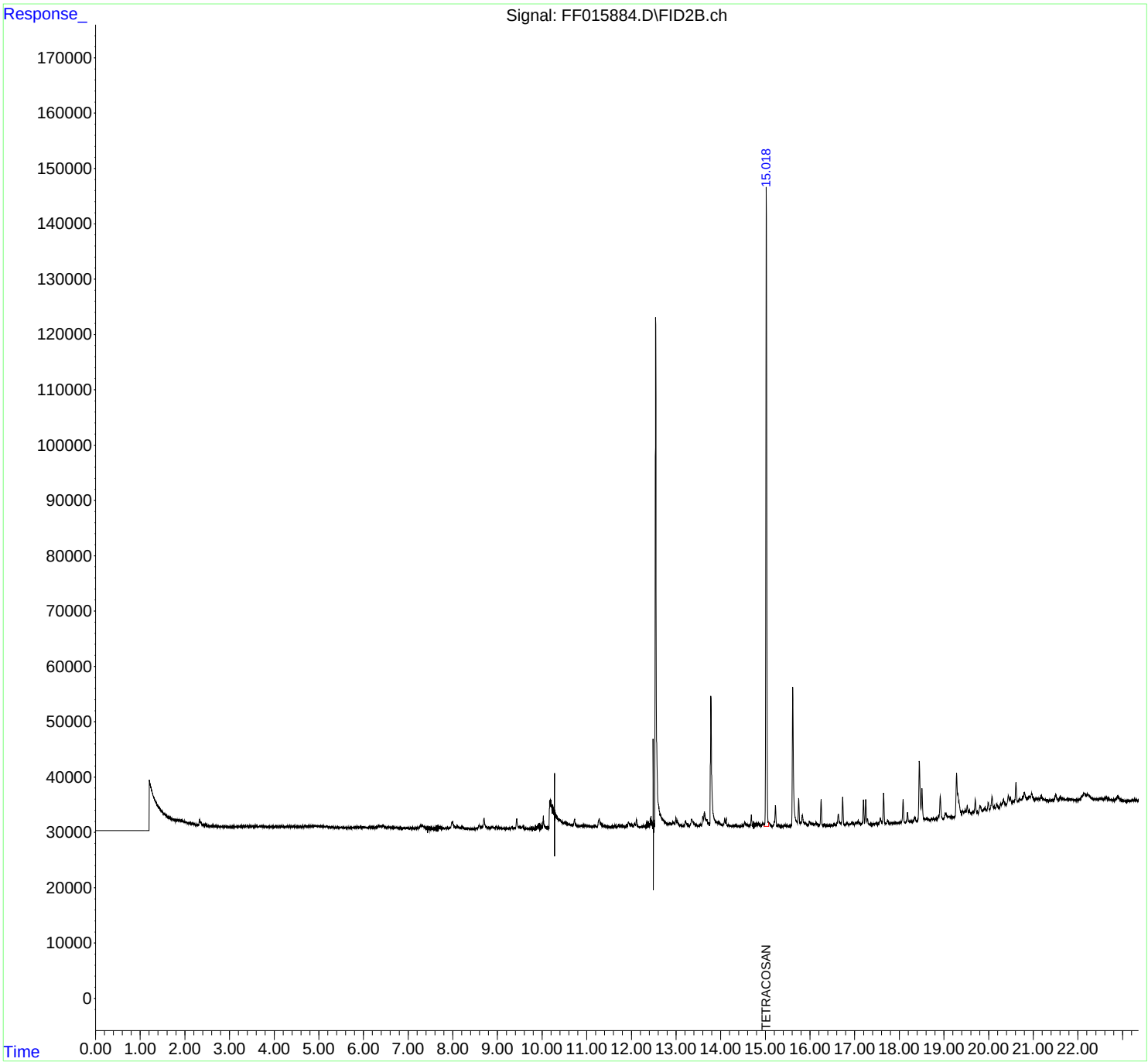
Integration File: autoint1.e
Quant Time: May 21 23:37:23 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF052125.M
Quant Title :
QLast Update : Wed May 21 12:32:51 2025
Response via : Initial Calibration
Integrator: ChemStation

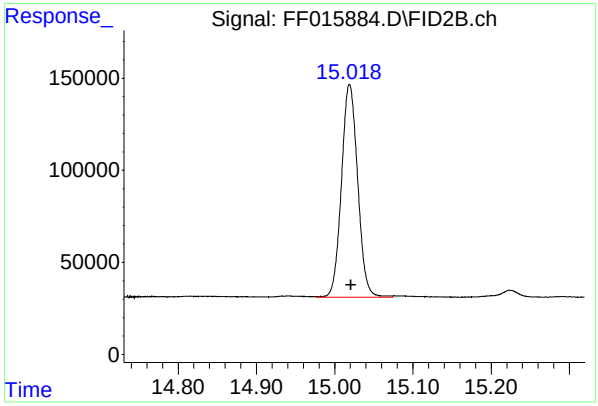
Volume Inj. : 1uL
Signal Phase : Rxi-1ms
Signal Info : 20mx0.18mmx0.18um

Instrument :
FID_F
ClientSampleId :
TP-38

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 05/22/2025
Supervised By :mohammad ahmed 05/23/2025





#9 TETRACOSANE-d50 (SURROGATE)

R.T.: 15.018 min
Delta R.T.: -0.003 mi
Response: 1664982
Conc: 13.63 ug/m

Instrument :
FID_F
ClientSampleId :
TP-38

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 05/22/2025
Supervised By :mohammad ahmed 05/23/2025

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Instrument :
FID_F
ClientSampleId :
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rteres

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 05/22/2025
Supervised By :mohammad ahmed 05/23/2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF05212
Data File : FF015884.D
Signal(s) : FID2B.ch
Acq On : 21 May 2025 15:12
Sample : Q2074-05
Misc :
ALS Vial : 35 Sample Multiplier: 1

Integration File: Sample.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF052125.M
Title :

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.008	4.000	4.014	BV	63	156	0.01%	0.001%
2	4.018	4.014	4.037	PV	104	559	0.02%	0.002%
3	4.043	4.037	4.067	VV	130	1045	0.04%	0.004%
4	4.076	4.067	4.093	PV	136	762	0.03%	0.003%
5	4.096	4.093	4.103	VV	101	360	0.01%	0.001%
6	4.109	4.103	4.128	VV	154	1156	0.04%	0.004%
7	4.131	4.128	4.138	VV	80	401	0.02%	0.001%
8	4.153	4.138	4.158	VV	163	959	0.04%	0.003%
9	4.164	4.158	4.182	VV	156	1426	0.05%	0.005%
10	4.188	4.182	4.192	VV	98	478	0.02%	0.002%
11	4.210	4.192	4.225	PV	147	1702	0.06%	0.006%
12	4.236	4.225	4.242	VV	165	1039	0.04%	0.004%
13	4.247	4.242	4.258	VV	155	1030	0.04%	0.004%
14	4.263	4.258	4.277	VV	130	1108	0.04%	0.004%
15	4.280	4.277	4.291	VV	173	845	0.03%	0.003%
16	4.299	4.291	4.303	VV	143	671	0.03%	0.002%
17	4.306	4.303	4.319	VV	123	815	0.03%	0.003%
18	4.326	4.319	4.341	VV	104	1079	0.04%	0.004%
19	4.384	4.341	4.398	VV	277	4213	0.16%	0.015%
20	4.403	4.398	4.422	VV	156	1631	0.06%	0.006%
21	4.426	4.422	4.433	VV	153	718	0.03%	0.003%
22	4.439	4.433	4.453	VV	167	1505	0.06%	0.005%
23	4.464	4.453	4.476	VV	155	1504	0.06%	0.005%
24	4.488	4.476	4.527	VV	145	2627	0.10%	0.009%
25	4.532	4.527	4.544	VV	154	671	0.03%	0.002%
26	4.549	4.544	4.556	PV	108	446	0.02%	0.002%
27	4.569	4.556	4.578	VV	134	1051	0.04%	0.004%
28	4.585	4.578	4.597	VV	104	697	0.03%	0.002%
29	4.603	4.597	4.611	VV	81	410	0.02%	0.001%
30	4.615	4.611	4.630	PV	99	642	0.02%	0.002%
31	4.683	4.630	4.696	VV	361	4931	0.19%	0.017%
32	4.698	4.696	4.703	VV	240	906	0.03%	0.003%
33	4.710	4.703	4.726	VV	248	2474	0.09%	0.009%
34	4.730	4.726	4.737	VV	215	1113	0.04%	0.004%
35	4.742	4.737	4.748	VV	193	915	0.03%	0.003%
36	4.761	4.748	4.769	VV	214	1981	0.07%	0.007%

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Instrument :
FID_F
ClientSampleId :
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Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 05/22/2025
Supervised By :mohammad ahmed 05/23/2025

A B C D E F G H I J

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37	4.773	4.769	4.797	VV	230	2228	0.08%	0.008%
38	4.801	4.797	4.804	VV	116	420		
39	4.844	4.804	4.855	VV	196	3323		
40	4.879	4.855	4.883	VV	241	2855		
41	4.887	4.883	4.893	VV	219	1019		
42	4.897	4.893	4.917	VV	190	2346		
43	4.925	4.917	4.944	VV	201	2405	0.09%	0.008%
44	4.961	4.944	4.966	VV	196	1924	0.07%	0.007%
45	4.972	4.966	4.985	VV	166	1383	0.05%	0.005%
46	4.995	4.985	5.011	VV	159	1717	0.07%	0.006%
47	5.015	5.011	5.042	VB	119	1518	0.06%	0.005%
48	5.055	5.047	5.062	BV	75	431	0.02%	0.002%
49	5.064	5.062	5.101	VV	129	1396	0.05%	0.005%
50	5.110	5.101	5.118	PV	99	495	0.02%	0.002%
51	5.126	5.118	5.132	VV	124	643	0.02%	0.002%
52	5.153	5.132	5.169	VV	173	2083	0.08%	0.007%
53	5.173	5.169	5.189	VV	151	1158	0.04%	0.004%
54	5.196	5.189	5.203	VV	126	791	0.03%	0.003%
55	5.206	5.203	5.226	VV	112	1051	0.04%	0.004%
56	5.233	5.226	5.248	VV	104	988	0.04%	0.003%
57	5.255	5.248	5.267	VV	149	1058	0.04%	0.004%
58	5.268	5.267	5.273	VV	123	360	0.01%	0.001%
59	5.283	5.273	5.290	VV	153	968	0.04%	0.003%
60	5.298	5.290	5.316	VV	156	1873	0.07%	0.007%
61	5.320	5.316	5.326	VV	162	594	0.02%	0.002%
62	5.330	5.326	5.349	VV	176	1621	0.06%	0.006%
63	5.355	5.349	5.364	VV	194	1250	0.05%	0.004%
64	5.367	5.364	5.388	VV	183	2234	0.08%	0.008%
65	5.390	5.388	5.412	VV	208	2162	0.08%	0.008%
66	5.419	5.412	5.433	VV	247	2183	0.08%	0.008%
67	5.445	5.433	5.473	VV	216	3839	0.15%	0.014%
68	5.475	5.473	5.487	VV	196	1477	0.06%	0.005%
69	5.494	5.487	5.498	VV	244	1061	0.04%	0.004%
70	5.503	5.498	5.507	VV	265	1155	0.04%	0.004%
71	5.514	5.507	5.528	VV	251	2386	0.09%	0.008%
72	5.532	5.528	5.543	VV	237	1976	0.07%	0.007%
73	5.554	5.543	5.576	VV	289	4574	0.17%	0.016%
74	5.582	5.576	5.590	VV	300	2082	0.08%	0.007%
75	5.594	5.590	5.609	VV	354	3178	0.12%	0.011%
76	5.613	5.609	5.619	VV	327	1761	0.07%	0.006%
77	5.622	5.619	5.629	VV	344	1696	0.06%	0.006%
78	5.634	5.629	5.640	VV	331	2000	0.08%	0.007%
79	5.652	5.640	5.663	VV	369	4169	0.16%	0.015%
80	5.666	5.663	5.676	VV	359	2666	0.10%	0.009%
81	5.688	5.676	5.691	VV	388	3150	0.12%	0.011%
82	5.697	5.691	5.704	VV	415	2737	0.10%	0.010%
83	5.708	5.704	5.713	VV	394	1813	0.07%	0.006%
84	5.732	5.713	5.738	VV	423	5414	0.20%	0.019%
85	5.753	5.738	5.770	VV	460	8190	0.31%	0.029%
86	5.775	5.770	5.798	VV	521	7712	0.29%	0.027%
87	5.803	5.798	5.808	VV	571	3093	0.12%	0.011%
88	5.816	5.808	5.836	VV	577	8773	0.33%	0.031%
89	5.837	5.836	5.843	VV	618	2155	0.08%	0.008%

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Instrument :
FID_F
ClientSampleId :
TP-38

rteres

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 05/22/2025
Supervised By :mohammad ahmed 05/23/2025

90	5.850	5.843	5.854	VV	567	3823	0.14%	0.013%
91	5.859	5.854	5.881	VV	599	8790		
92	5.894	5.881	5.914	VV	718	11987		
93	5.920	5.914	5.936	VV	673	8267		
94	5.957	5.936	5.962	VV	713	9600		
95	5.970	5.962	5.986	VV	697	9679		
96	5.993	5.986	6.048	VV	772	25740	0.97%	0.091%
97	6.052	6.048	6.081	VV	740	14093	0.53%	0.050%
98	6.084	6.081	6.097	VV	699	6674	0.25%	0.024%
99	6.113	6.097	6.124	VV	765	11770	0.45%	0.041%
100	6.129	6.124	6.169	VV	795	20047	0.76%	0.071%
101	6.179	6.169	6.197	VV	813	12852	0.49%	0.045%
102	6.201	6.197	6.212	VV	867	6813	0.26%	0.024%
103	6.225	6.212	6.246	VV	868	16374	0.62%	0.058%
104	6.275	6.246	6.293	VV	962	24974	0.95%	0.088%
105	6.298	6.293	6.304	VV	972	6210	0.24%	0.022%
106	6.335	6.304	6.365	VV	1227	40685	1.54%	0.143%
107	6.385	6.365	6.423	VV	1213	40474	1.53%	0.143%
108	6.442	6.423	6.488	VV	1417	46803	1.77%	0.165%
109	6.492	6.488	6.495	VV	1117	5203	0.20%	0.018%
110	6.500	6.495	6.522	VV	1111	17983	0.68%	0.063%
111	6.527	6.522	6.549	VV	1137	17245	0.65%	0.061%
112	6.564	6.549	6.570	VV	1161	14332	0.54%	0.050%
113	6.573	6.570	6.590	VV	1151	13396	0.51%	0.047%
114	6.593	6.590	6.620	VV	1146	19903	0.75%	0.070%
115	6.622	6.620	6.632	VV	1147	7534	0.29%	0.027%
116	6.642	6.632	6.690	VV	1191	39775	1.51%	0.140%
117	6.695	6.690	6.710	VV	1242	14624	0.55%	0.051%
118	6.718	6.710	6.723	VV	1191	9107	0.34%	0.032%
119	6.729	6.723	6.744	VV	1232	14733	0.56%	0.052%
120	6.751	6.744	6.756	VV	1229	8802	0.33%	0.031%
121	6.760	6.756	6.792	VV	1238	25905	0.98%	0.091%
122	6.796	6.792	6.845	VV	1257	39408	1.49%	0.139%
123	6.851	6.845	6.865	VV	1255	14211	0.54%	0.050%
124	6.882	6.865	6.887	VV	1269	16457	0.62%	0.058%
125	6.897	6.887	6.910	VV	1309	17665	0.67%	0.062%
126	6.914	6.910	6.924	VV	1288	10243	0.39%	0.036%
127	6.936	6.924	6.977	VV	1353	42372	1.60%	0.149%
128	6.988	6.977	6.995	VV	1376	14542	0.55%	0.051%
129	6.998	6.995	7.008	VV	1376	10433	0.39%	0.037%
130	7.016	7.008	7.047	VV	1368	31181	1.18%	0.110%
131	7.050	7.047	7.056	VV	1380	7266	0.28%	0.026%
132	7.066	7.056	7.078	VV	1415	18461	0.70%	0.065%
133	7.084	7.078	7.094	VV	1442	13859	0.52%	0.049%
134	7.101	7.094	7.134	VV	1476	33396	1.26%	0.118%
135	7.140	7.134	7.167	VV	1520	28711	1.09%	0.101%
136	7.189	7.167	7.207	VV	1545	35367	1.34%	0.125%
137	7.233	7.207	7.241	VV	1647	32834	1.24%	0.116%
138	7.291	7.241	7.302	VV	2143	70547	2.67%	0.248%
139	7.316	7.302	7.379	VV	2162	88946	3.37%	0.313%
140	7.387	7.379	7.419	VV	1793	41506	1.57%	0.146%
141	7.429	7.419	7.437	VV	1871	18454	0.70%	0.065%

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Instrument :
FID_F
ClientSampleId :
TP-38

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 05/22/2025
Supervised By :mohammad ahmed 05/23/2025

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142	7.441	7.437	7.449	VV	1638	12332	0.47%	0.043%
143	7.461	7.449	7.467	VV	1783	18027		
144	7.477	7.467	7.481	VV	1795	14279		
145	7.487	7.481	7.547	VV	1919	67323		
146	7.561	7.547	7.567	VV	1864	20979		
147	7.624	7.567	7.659	VV	2053	99500		
148	7.666	7.659	7.745	VV	2379	100253	3.79%	0.353%
149	7.756	7.745	7.777	VV	2039	38695	1.46%	0.136%
150	7.784	7.777	7.794	VV	2069	20306	0.77%	0.072%
151	7.801	7.794	7.876	VV	2074	101432	3.84%	0.357%
152	7.882	7.876	7.899	VV	2078	27851	1.05%	0.098%
153	7.989	7.899	8.070	VV	3327	260317	9.85%	0.917%
154	8.098	8.070	8.174	VV	2655	150193	5.68%	0.529%
155	8.204	8.174	8.320	VV	2582	210928	7.98%	0.743%
156	8.327	8.320	8.378	VV	2360	81255	3.08%	0.286%
157	8.392	8.378	8.423	VV	2414	64384	2.44%	0.227%
158	8.475	8.423	8.483	VV	2516	87472	3.31%	0.308%
159	8.589	8.483	8.644	VV	3193	262953	9.95%	0.926%
160	8.701	8.644	8.790	VV	4534	288351	10.91%	1.015%
161	8.799	8.790	8.835	VV	2980	79533	3.01%	0.280%
162	8.845	8.835	8.858	VV	2997	40824	1.55%	0.144%
163	8.884	8.858	8.939	VV	3150	146266	5.54%	0.515%
164	8.967	8.939	9.001	VV	3248	114978	4.35%	0.405%
165	9.016	9.001	9.062	VV	3211	112938	4.27%	0.398%
166	9.073	9.062	9.119	VV	3143	103588	3.92%	0.365%
167	9.144	9.119	9.187	VV	3109	123308	4.67%	0.434%
168	9.221	9.187	9.230	VV	3140	81062	3.07%	0.285%
169	9.247	9.230	9.255	VV	3221	46661	1.77%	0.164%
170	9.264	9.255	9.303	VV	3220	91623	3.47%	0.323%
171	9.324	9.303	9.379	VV	3501	151214	5.72%	0.532%
172	9.433	9.379	9.529	VV	5009	335848	12.71%	1.183%
173	9.571	9.529	9.707	VV	3852	378609	14.33%	1.333%
174	9.724	9.707	9.749	VV	3627	88431	3.35%	0.311%
175	9.762	9.749	9.812	VV	3671	135147	5.12%	0.476%
176	9.921	9.812	10.004	VV	4429	448543	16.98%	1.580%
177	10.029	10.004	10.124	VV	5648	310333	11.75%	1.093%
178	10.129	10.124	10.149	VV	4016	60268	2.28%	0.212%
179	10.178	10.149	10.384	VV	9004	963699	36.48%	3.394%
180	10.390	10.384	10.504	VV	5730	384909	14.57%	1.355%
181	10.523	10.504	10.554	VV	5418	156267	5.91%	0.550%
182	10.566	10.554	10.654	VV	5220	300912	11.39%	1.060%
183	10.664	10.654	10.694	VV	4962	118901	4.50%	0.419%
184	10.726	10.694	10.844	VV	5996	460116	17.42%	1.620%
185	10.881	10.844	10.905	VV	5120	182587	6.91%	0.643%
186	10.984	10.905	11.005	VV	5234	305791	11.57%	1.077%
187	11.036	11.005	11.092	VV	5146	262232	9.93%	0.923%
188	11.099	11.092	11.106	VV	5037	42539	1.61%	0.150%
189	11.123	11.106	11.140	VV	5146	103860	3.93%	0.366%
190	11.184	11.140	11.230	VV	5341	279212	10.57%	0.983%
191	11.279	11.230	11.370	VV	6541	479011	18.13%	1.687%
192	11.381	11.370	11.415	VV	5425	144342	5.46%	0.508%
193	11.433	11.415	11.475	VV	5477	191029	7.23%	0.673%
194	11.489	11.475	11.512	VV	5269	116570	4.41%	0.410%

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Instrument :
FID_F
ClientSampleId :
TP-38

rteres

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 05/22/2025
Supervised By :mohammad ahmed 05/23/2025

195	11.541	11.512	11.552	VV	5399	127223	4.82%	0.448%
196	11.574	11.552	11.603	VV	5498	166148	6	
197	11.627	11.603	11.683	VV	5664	262703	9	
198	11.712	11.683	11.740	VV	5940	193424	7	
199	11.781	11.740	11.812	VV	5872	246394	9	
200	11.829	11.812	11.869	VV	5722	190452	7	
201	11.890	11.869	11.912	VV	6091	150917	5.71%	0.531%
202	11.934	11.912	11.970	VV	6609	217583	8.24%	0.766%
203	11.981	11.970	12.004	VV	6145	124054	4.70%	0.437%
204	12.016	12.004	12.044	VV	6170	142202	5.38%	0.501%
205	12.069	12.044	12.089	VV	6410	165721	6.27%	0.584%
206	12.115	12.089	12.199	VV	7067	403447	15.27%	1.421%
207	12.226	12.199	12.246	VV	5971	169173	6.40%	0.596%
208	12.255	12.246	12.276	VV	6011	107621	4.07%	0.379%
209	12.288	12.276	12.309	VV	6097	117474	4.45%	0.414%
210	12.347	12.309	12.407	VV	6856	371971	14.08%	1.310%
211	12.435	12.407	12.489	VV	7533	332424	12.58%	1.171%
212	12.499	12.489	12.515	PV	6526	96769	3.66%	0.341%
213	12.544	12.515	12.834	VV	97036	2642006	100.00%	9.304%
214	12.864	12.834	12.903	VV	6285	256005	9.69%	0.901%
215	12.928	12.903	12.941	VV	6451	142875	5.41%	0.503%
216	12.952	12.941	12.973	VV	6282	116640	4.41%	0.411%
217	12.996	12.973	13.012	VV	7133	154144	5.83%	0.543%
218	13.028	13.012	13.150	VV	6513	481730	18.23%	1.696%
219	13.210	13.150	13.307	VV	6229	521011	19.72%	1.835%
220	13.350	13.307	13.515	VV	6385	682426	25.83%	2.403%
221	13.537	13.515	13.559	VV	5274	133580	5.06%	0.470%
222	13.599	13.559	13.615	VV	6517	192218	7.28%	0.677%
223	13.635	13.615	13.679	VV	7301	243297	9.21%	0.857%
224	13.691	13.679	13.747	VV	5854	216643	8.20%	0.763%
225	13.779	13.747	13.907	VV	28001	900962	34.10%	3.173%
226	13.919	13.907	13.962	VV	5134	163451	6.19%	0.576%
227	13.971	13.962	14.049	VV	4873	241214	9.13%	0.849%
228	14.086	14.049	14.105	VV	5527	161863	6.13%	0.570%
229	14.121	14.105	14.170	VV	5240	179854	6.81%	0.633%
230	14.176	14.170	14.238	VV	4220	166090	6.29%	0.585%
231	14.247	14.238	14.267	VV	4051	69838	2.64%	0.246%
232	14.325	14.267	14.337	VV	4038	166558	6.30%	0.587%
233	14.352	14.337	14.384	VV	3927	108336	4.10%	0.381%
234	14.397	14.384	14.442	VV	3797	130714	4.95%	0.460%
235	14.450	14.442	14.464	VV	3687	47192	1.79%	0.166%
236	14.484	14.464	14.506	VV	3838	94377	3.57%	0.332%
237	14.536	14.506	14.572	VV	4331	155939	5.90%	0.549%
238	14.582	14.572	14.630	VV	3884	129419	4.90%	0.456%
239	14.644	14.630	14.653	VV	3511	48017	1.82%	0.169%
240	14.685	14.653	14.719	VV	5373	159664	6.04%	0.562%
241	14.767	14.719	14.791	VV	3759	151182	5.72%	0.532%
242	14.815	14.791	14.824	VV	3692	69964	2.65%	0.246%
243	14.830	14.824	14.915	VV	3664	185655	7.03%	0.654%
244	14.940	14.915	14.977	VV	3668	125485	4.75%	0.442%
245	15.019	14.977	15.069	VV	118475	1821856	68.96%	6.416%
246	15.075	15.069	15.160	VV	3577	171201	6.48%	0.603%

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Instrument :
FID_F
ClientSampleId :
TP-38

Manual IntegrationsAPPROVED

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rteres

247	15.224	15.160	15.266	VV	6423	231282	8.75%	0.814%
248	15.291	15.266	15.342	VV	2871	119711	4	
249	15.388	15.342	15.402	VV	2486	87991	3	
250	15.432	15.402	15.454	VV	2584	77300	2	
251	15.475	15.454	15.522	VV	2475	95500	3	
252	15.558	15.522	15.578	VV	2327	75546	2	
253	15.611	15.578	15.715	VV	27231	635061	24.04%	2.236%
254	15.745	15.715	15.772	VV	7013	145692	5.51%	0.513%
255	15.784	15.772	15.800	VV	2717	44897	1.70%	0.158%
256	15.828	15.800	15.957	VV	3847	234404	8.87%	0.825%
257	15.985	15.957	16.024	VV	2572	88540	3.35%	0.312%
258	16.038	16.024	16.080	VV	2091	68021	2.57%	0.240%
259	16.136	16.080	16.202	VV	2224	134112	5.08%	0.472%
260	16.246	16.202	16.298	VV	6178	149810	5.67%	0.528%
261	16.325	16.298	16.360	VV	1673	53494	2.02%	0.188%
262	16.383	16.360	16.412	VV	1364	39758	1.50%	0.140%
263	16.425	16.412	16.435	VV	1271	16088	0.61%	0.057%
264	16.490	16.435	16.519	VV	1242	59411	2.25%	0.209%
265	16.554	16.519	16.575	VV	1317	41339	1.56%	0.146%
266	16.632	16.575	16.699	VV	3082	124709	4.72%	0.439%
267	16.730	16.699	16.787	VV	6015	118281	4.48%	0.417%
268	16.815	16.787	16.827	VV	1181	24839	0.94%	0.087%
269	16.836	16.827	16.877	VV	1131	28472	1.08%	0.100%
270	16.895	16.877	16.909	VV	853	15117	0.57%	0.053%
271	16.943	16.909	16.965	VV	1033	31502	1.19%	0.111%
272	16.969	16.965	16.992	VV	960	12892	0.49%	0.045%
273	17.032	16.992	17.054	VV	1019	31452	1.19%	0.111%
274	17.078	17.054	17.102	VV	1229	27517	1.04%	0.097%
275	17.113	17.102	17.136	VV	729	13249	0.50%	0.047%
276	17.196	17.136	17.224	VV	4880	85886	3.25%	0.302%
277	17.247	17.224	17.272	VV	4802	73696	2.79%	0.260%
278	17.286	17.272	17.347	VV	1294	26917	1.02%	0.095%
279	17.361	17.347	17.397	VV	207	4138	0.16%	0.015%
280	17.481	17.397	17.500	VBA	276	10384	0.39%	0.037%

Sum of corrected areas: 28397715

FF052125.M Thu May 22 00:03:42 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF052125\
Data File : FF015885.D
Signal(s) : FID2B.ch
Acq On : 21 May 2025 15:41
Operator : YP\AJ
Sample : Q2074-06
Misc :
ALS Vial : 36 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
TP-19

Integration File: autoint1.e
Quant Time: May 21 23:37:40 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF052125.M
Quant Title :
QLast Update : Wed May 21 12:32:51 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...	15.018	1388981	11.372 ug/ml
Target Compounds			

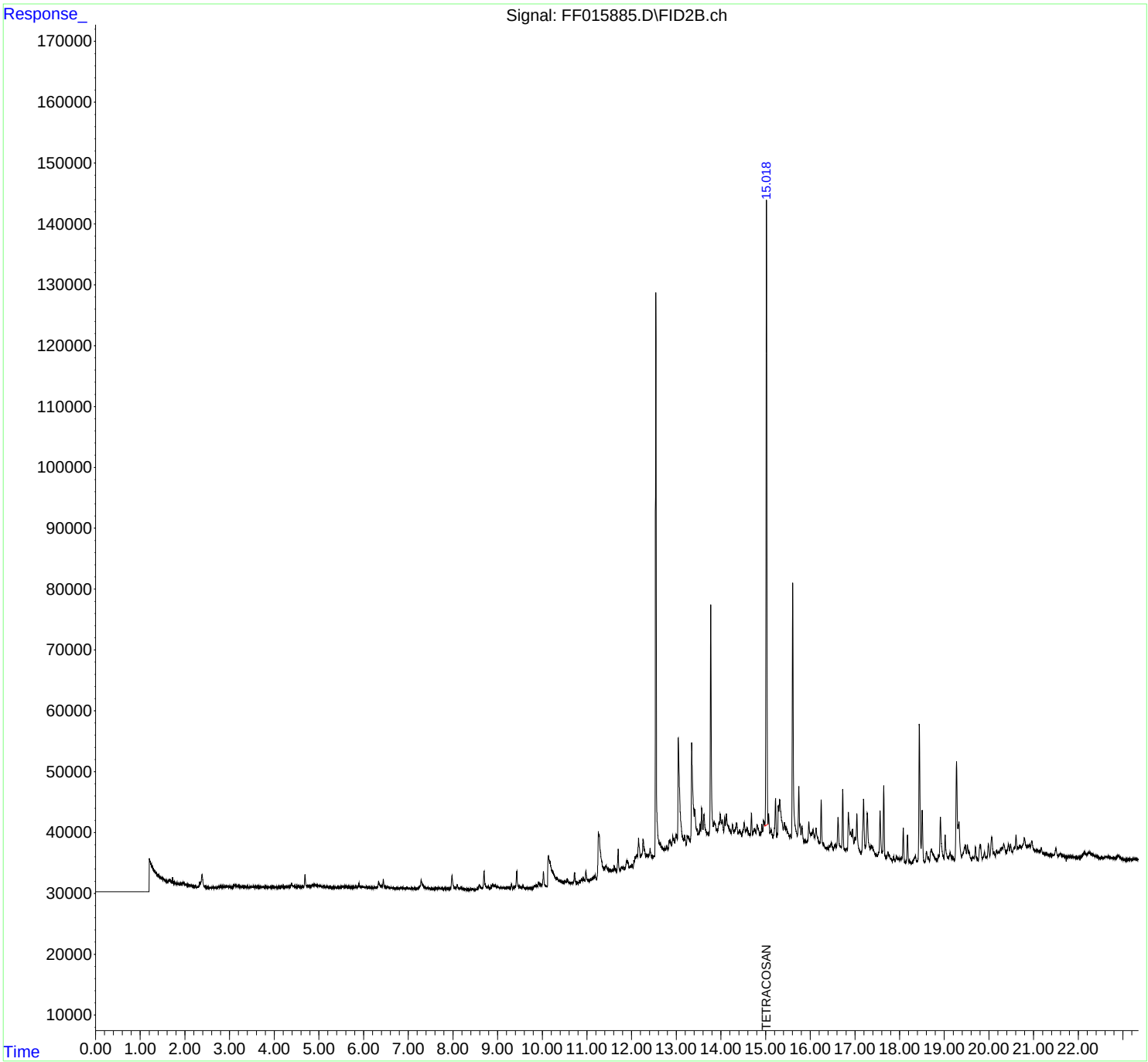
(f)=RT Delta > 1/2 Window (m)=manual int.

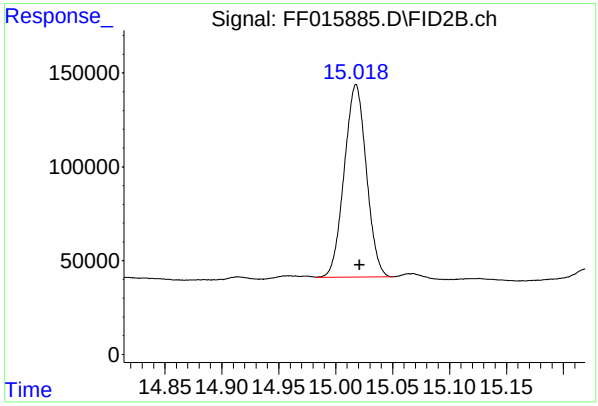
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF052125\
Data File : FF015885.D
Signal(s) : FID2B.ch
Acq On : 21 May 2025 15:41
Operator : YP\AJ
Sample : Q2074-06
Misc :
ALS Vial : 36 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
TP-19

Integration File: autoint1.e
Quant Time: May 21 23:37:40 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF052125.M
Quant Title :
QLast Update : Wed May 21 12:32:51 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.: 15.018 min
Delta R.T.: -0.003 mi
Response: 1388981
Conc: 11.37 ug/m

Instrument :
FID_F
ClientSampleId :
TP-19

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A B C D E F G H I J

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF052125\
Data File : FF015885.D
Signal(s) : FID2B.ch
Acq On : 21 May 2025 15:41
Sample : Q2074-06
Misc :
ALS Vial : 36 Sample Multiplier: 1

Integration File: Sample.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF052125.M
Title :

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.017	4.000	4.025	BV	56	296	0.02%	0.001%
2	4.033	4.025	4.042	PV	84	550	0.03%	0.002%
3	4.046	4.042	4.060	VV	137	728	0.04%	0.003%
4	4.065	4.060	4.091	PV	82	1196	0.07%	0.005%
5	4.096	4.091	4.108	VV	96	837	0.05%	0.003%
6	4.115	4.108	4.123	VV	98	680	0.04%	0.003%
7	4.147	4.123	4.157	VV	185	2370	0.14%	0.010%
8	4.167	4.157	4.173	VV	199	1300	0.08%	0.005%
9	4.186	4.173	4.205	VV	161	2574	0.15%	0.010%
10	4.208	4.205	4.218	VV	212	1197	0.07%	0.005%
11	4.234	4.218	4.253	VV	236	3295	0.20%	0.013%
12	4.264	4.253	4.273	VV	207	1915	0.11%	0.008%
13	4.286	4.273	4.310	VV	241	3810	0.23%	0.015%
14	4.313	4.310	4.322	VV	181	1129	0.07%	0.005%
15	4.326	4.322	4.342	VV	188	1887	0.11%	0.008%
16	4.388	4.342	4.430	VV	756	18510	1.11%	0.074%
17	4.437	4.430	4.465	VV	333	5117	0.31%	0.021%
18	4.466	4.465	4.477	VV	236	1345	0.08%	0.005%
19	4.480	4.477	4.495	VV	253	2013	0.12%	0.008%
20	4.506	4.495	4.510	VV	208	1649	0.10%	0.007%
21	4.514	4.510	4.523	VV	254	1579	0.09%	0.006%
22	4.527	4.523	4.570	VV	253	5188	0.31%	0.021%
23	4.581	4.570	4.598	VV	236	2843	0.17%	0.011%
24	4.635	4.598	4.641	VV	250	4584	0.27%	0.018%
25	4.645	4.641	4.665	VV	238	2652	0.16%	0.011%
26	4.690	4.665	4.739	VV	2215	36801	2.21%	0.148%
27	4.756	4.739	4.768	VV	396	5365	0.32%	0.022%
28	4.771	4.768	4.779	VV	350	1964	0.12%	0.008%
29	4.783	4.779	4.795	VV	327	2802	0.17%	0.011%
30	4.799	4.795	4.823	VV	297	4739	0.28%	0.019%
31	4.828	4.823	4.839	VV	348	3132	0.19%	0.013%
32	4.842	4.839	4.862	VV	415	5314	0.32%	0.021%
33	4.879	4.862	4.894	VV	530	8743	0.52%	0.035%
34	4.895	4.894	4.906	VV	556	3396	0.20%	0.014%
35	4.913	4.906	4.925	VV	473	5203	0.31%	0.021%
36	4.932	4.925	4.936	VV	446	2982	0.18%	0.012%

rteres

37	4.938	4.936	4.955	VV	456	4888	0.29%	0.020%
38	4.961	4.955	4.964	VV	458	2222	0.13%	0.009%
39	4.976	4.964	4.985	VV	435	4697	0.28%	0.019%
40	4.990	4.985	5.004	VV	387	4021	0.24%	0.016%
41	5.009	5.004	5.036	VV	387	6354	0.38%	0.026%
42	5.042	5.036	5.072	VV	354	6170	0.37%	0.025%
43	5.092	5.072	5.117	VV	294	6250	0.37%	0.025%
44	5.127	5.117	5.150	VV	269	3974	0.24%	0.016%
45	5.156	5.150	5.159	VV	203	938	0.06%	0.004%
46	5.163	5.159	5.168	VV	236	930	0.06%	0.004%
47	5.175	5.168	5.185	VV	223	2022	0.12%	0.008%
48	5.190	5.185	5.199	VV	255	1594	0.10%	0.006%
49	5.201	5.199	5.222	VV	219	2056	0.12%	0.008%
50	5.239	5.222	5.243	VV	208	1987	0.12%	0.008%
51	5.249	5.243	5.257	VV	214	1337	0.08%	0.005%
52	5.261	5.257	5.268	VV	168	983	0.06%	0.004%
53	5.274	5.268	5.289	VV	180	1657	0.10%	0.007%
54	5.293	5.289	5.309	VV	192	1499	0.09%	0.006%
55	5.314	5.309	5.320	VV	210	1069	0.06%	0.004%
56	5.330	5.320	5.338	VV	200	1635	0.10%	0.007%
57	5.343	5.338	5.350	VV	163	992	0.06%	0.004%
58	5.358	5.350	5.366	VV	174	1402	0.08%	0.006%
59	5.376	5.366	5.420	VV	210	4715	0.28%	0.019%
60	5.426	5.420	5.442	VV	179	1839	0.11%	0.007%
61	5.446	5.442	5.455	VV	196	1229	0.07%	0.005%
62	5.462	5.455	5.469	VV	188	1399	0.08%	0.006%
63	5.504	5.469	5.511	VV	251	5279	0.32%	0.021%
64	5.524	5.511	5.533	VV	336	3594	0.22%	0.014%
65	5.538	5.533	5.558	VV	299	4309	0.26%	0.017%
66	5.564	5.558	5.571	VV	298	1959	0.12%	0.008%
67	5.588	5.571	5.615	VV	334	6963	0.42%	0.028%
68	5.632	5.615	5.647	VV	320	4594	0.28%	0.018%
69	5.651	5.647	5.674	VV	256	3648	0.22%	0.015%
70	5.679	5.674	5.683	VV	265	1191	0.07%	0.005%
71	5.692	5.683	5.696	VV	287	1910	0.11%	0.008%
72	5.701	5.696	5.705	VV	263	1116	0.07%	0.004%
73	5.713	5.705	5.721	VV	232	1879	0.11%	0.008%
74	5.726	5.721	5.730	VV	248	1078	0.06%	0.004%
75	5.748	5.730	5.753	VV	247	2668	0.16%	0.011%
76	5.758	5.753	5.761	VV	267	886	0.05%	0.004%
77	5.768	5.761	5.784	VV	269	3239	0.19%	0.013%
78	5.786	5.784	5.797	VV	273	1900	0.11%	0.008%
79	5.806	5.797	5.810	VV	278	1874	0.11%	0.008%
80	5.823	5.810	5.875	VV	313	9191	0.55%	0.037%
81	5.895	5.875	5.930	VV	916	15665	0.94%	0.063%
82	5.939	5.930	5.947	VV	299	2684	0.16%	0.011%
83	5.962	5.947	5.966	VV	269	2921	0.18%	0.012%
84	5.973	5.966	5.982	VV	342	2757	0.17%	0.011%
85	5.987	5.982	6.004	VV	331	3490	0.21%	0.014%
86	6.010	6.004	6.022	VV	306	2802	0.17%	0.011%
87	6.029	6.022	6.050	VV	292	4170	0.25%	0.017%
88	6.056	6.050	6.065	VV	240	2084	0.12%	0.008%
89	6.069	6.065	6.109	VV	232	5333	0.32%	0.021%

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90	6.115	6.109	6.129	VV	196	1852	0.11%	0.007%
91	6.132	6.129	6.149	VV	217	1959	0.12%	0.008%
92	6.152	6.149	6.157	VV	178	670	0.04%	0.003%
93	6.161	6.157	6.167	VV	149	812	0.05%	0.003%
94	6.194	6.167	6.207	VV	203	3514	0.21%	0.014%
95	6.214	6.207	6.221	VV	214	1331	0.08%	0.005%
96	6.225	6.221	6.230	VV	193	867	0.05%	0.003%
97	6.243	6.230	6.260	VV	235	3322	0.20%	0.013%
98	6.270	6.260	6.278	VV	309	2832	0.17%	0.011%
99	6.295	6.278	6.301	VV	311	3467	0.21%	0.014%
100	6.338	6.301	6.422	VV	1277	41228	2.47%	0.166%
101	6.443	6.422	6.495	VV	1579	29082	1.74%	0.117%
102	6.502	6.495	6.515	VV	341	3621	0.22%	0.015%
103	6.518	6.515	6.524	VV	254	1499	0.09%	0.006%
104	6.534	6.524	6.552	VV	342	4578	0.27%	0.018%
105	6.558	6.552	6.570	VV	340	2916	0.17%	0.012%
106	6.573	6.570	6.605	VV	271	4558	0.27%	0.018%
107	6.611	6.605	6.621	VV	223	1830	0.11%	0.007%
108	6.625	6.621	6.636	VV	242	1529	0.09%	0.006%
109	6.639	6.636	6.650	VV	164	1290	0.08%	0.005%
110	6.654	6.650	6.659	VV	196	848	0.05%	0.003%
111	6.660	6.659	6.689	VV	201	2281	0.14%	0.009%
112	6.693	6.689	6.724	VV	184	2849	0.17%	0.011%
113	6.726	6.724	6.745	VV	167	1542	0.09%	0.006%
114	6.749	6.745	6.753	VV	154	646	0.04%	0.003%
115	6.758	6.753	6.767	VV	157	833	0.05%	0.003%
116	6.823	6.767	6.827	VV	190	4231	0.25%	0.017%
117	6.832	6.827	6.837	VV	196	1066	0.06%	0.004%
118	6.843	6.837	6.848	VV	178	1132	0.07%	0.005%
119	6.856	6.848	6.862	VV	238	1495	0.09%	0.006%
120	6.884	6.862	6.899	VV	219	3812	0.23%	0.015%
121	6.901	6.899	6.904	VV	194	510	0.03%	0.002%
122	6.909	6.904	6.914	VV	187	1000	0.06%	0.004%
123	6.921	6.914	6.934	VV	194	1971	0.12%	0.008%
124	6.938	6.934	6.958	VV	208	1956	0.12%	0.008%
125	6.964	6.958	6.982	VV	338	1907	0.11%	0.008%
126	6.991	6.982	7.004	VV	158	1434	0.09%	0.006%
127	7.011	7.004	7.020	VV	176	1332	0.08%	0.005%
128	7.026	7.020	7.035	VV	159	1072	0.06%	0.004%
129	7.039	7.035	7.055	VV	151	1589	0.10%	0.006%
130	7.068	7.055	7.107	VV	176	4094	0.25%	0.016%
131	7.113	7.107	7.145	VV	202	2776	0.17%	0.011%
132	7.149	7.145	7.176	VV	170	2291	0.14%	0.009%
133	7.199	7.176	7.213	VV	217	3429	0.21%	0.014%
134	7.217	7.213	7.221	VV	232	931	0.06%	0.004%
135	7.224	7.221	7.230	VV	228	1052	0.06%	0.004%
136	7.289	7.230	7.358	VV	1569	52595	3.15%	0.212%
137	7.363	7.358	7.406	VV	446	8146	0.49%	0.033%
138	7.420	7.406	7.428	VV	294	3061	0.18%	0.012%
139	7.437	7.428	7.463	VV	331	5249	0.31%	0.021%
140	7.469	7.463	7.484	VV	237	2044	0.12%	0.008%
141	7.487	7.484	7.521	VV	144	2314	0.14%	0.009%

rteres

142	7.525	7.521	7.529	VV	71	248	0.01%	0.001%
143	7.533	7.529	7.535	PV	109	273	0.02%	0.001%
144	7.540	7.535	7.547	VV	124	643	0.04%	0.003%
145	7.551	7.547	7.560	VV	163	676	0.04%	0.003%
146	7.566	7.560	7.572	VV	108	567	0.03%	0.002%
147	7.606	7.572	7.614	VV	195	2896	0.17%	0.012%
148	7.636	7.614	7.651	VV	285	4609	0.28%	0.019%
149	7.656	7.651	7.662	VV	233	1385	0.08%	0.006%
150	7.671	7.662	7.676	VV	254	1769	0.11%	0.007%
151	7.686	7.676	7.694	VV	285	2555	0.15%	0.010%
152	7.697	7.694	7.704	VV	234	1093	0.07%	0.004%
153	7.708	7.704	7.716	VV	228	1460	0.09%	0.006%
154	7.723	7.716	7.740	VV	197	2462	0.15%	0.010%
155	7.760	7.740	7.764	VV	252	3056	0.18%	0.012%
156	7.769	7.764	7.776	VV	207	1266	0.08%	0.005%
157	7.781	7.776	7.786	VV	195	1029	0.06%	0.004%
158	7.797	7.786	7.809	VV	167	2071	0.12%	0.008%
159	7.827	7.809	7.853	VV	187	3554	0.21%	0.014%
160	7.865	7.853	7.882	VV	204	2104	0.13%	0.008%
161	7.884	7.882	7.888	VV	146	393	0.02%	0.002%
162	7.911	7.888	7.919	VV	146	2164	0.13%	0.009%
163	7.981	7.919	8.064	VV	2349	58924	3.53%	0.237%
164	8.097	8.064	8.139	VV	807	19006	1.14%	0.076%
165	8.140	8.139	8.157	VV	276	2173	0.13%	0.009%
166	8.161	8.157	8.165	VV	271	1020	0.06%	0.004%
167	8.176	8.165	8.229	VV	419	10213	0.61%	0.041%
168	8.237	8.229	8.259	VV	141	1791	0.11%	0.007%
169	8.264	8.259	8.292	VV	113	1515	0.09%	0.006%
170	8.298	8.292	8.317	VV	149	1256	0.08%	0.005%
171	8.329	8.317	8.346	VV	177	2105	0.13%	0.008%
172	8.350	8.346	8.369	VV	131	957	0.06%	0.004%
173	8.376	8.369	8.432	VV	116	4043	0.24%	0.016%
174	8.438	8.432	8.470	VV	159	2624	0.16%	0.011%
175	8.589	8.470	8.652	PV	846	30763	1.84%	0.124%
176	8.699	8.652	8.762	VV	3042	66808	4.00%	0.269%
177	8.795	8.762	8.835	VV	501	16292	0.98%	0.066%
178	8.883	8.835	8.929	VV	809	32015	1.92%	0.129%
179	8.948	8.929	8.991	VV	832	19937	1.20%	0.080%
180	9.008	8.991	9.055	VV	491	12579	0.75%	0.051%
181	9.073	9.055	9.101	VV	337	7546	0.45%	0.030%
182	9.120	9.101	9.154	VV	330	7465	0.45%	0.030%
183	9.188	9.154	9.204	VV	268	6672	0.40%	0.027%
184	9.216	9.204	9.228	VV	279	3108	0.19%	0.012%
185	9.244	9.228	9.291	VV	263	6304	0.38%	0.025%
186	9.312	9.291	9.352	VV	673	12964	0.78%	0.052%
187	9.379	9.352	9.392	VV	438	7670	0.46%	0.031%
188	9.430	9.392	9.530	VV	2901	63312	3.80%	0.255%
189	9.571	9.530	9.605	VV	561	11980	0.72%	0.048%
190	9.614	9.605	9.655	VV	112	1758	0.11%	0.007%
191	9.687	9.655	9.704	VV	111	2091	0.13%	0.008%
192	9.718	9.704	9.745	VV	100	1790	0.11%	0.007%
193	9.771	9.745	9.797	VV	127	2065	0.12%	0.008%
194	9.859	9.797	9.888	PV	532	19390	1.16%	0.078%

rteres

195	9.918	9.888	9.941	VV	962	19202	1.15%	0.077%
196	9.965	9.941	9.990	VV	651	16112	0.97%	0.065%
197	10.029	9.990	10.104	VV	2585	56014	3.36%	0.225%
198	10.137	10.104	10.314	VV	5084	337003	20.20%	1.355%
199	10.320	10.314	10.414	VV	1311	61519	3.69%	0.247%
200	10.421	10.414	10.437	VV	854	9251	0.55%	0.037%
201	10.442	10.437	10.473	VV	680	12174	0.73%	0.049%
202	10.515	10.473	10.534	VV	896	22946	1.38%	0.092%
203	10.560	10.534	10.642	VV	1087	36102	2.16%	0.145%
204	10.678	10.642	10.685	VV	406	9543	0.57%	0.038%
205	10.724	10.685	10.779	VV	1968	41415	2.48%	0.167%
206	10.847	10.779	10.857	VV	566	15492	0.93%	0.062%
207	10.880	10.857	10.900	VV	788	16428	0.98%	0.066%
208	10.916	10.900	10.950	VV	1149	23002	1.38%	0.093%
209	10.977	10.950	11.062	VV	2097	56530	3.39%	0.227%
210	11.129	11.062	11.149	VV	934	35387	2.12%	0.142%
211	11.184	11.149	11.215	VV	1316	36671	2.20%	0.147%
212	11.256	11.215	11.390	VV	8415	430445	25.80%	1.731%
213	11.432	11.390	11.464	VV	2603	104624	6.27%	0.421%
214	11.468	11.464	11.499	VV	2192	41671	2.50%	0.168%
215	11.521	11.499	11.547	VV	1870	51081	3.06%	0.205%
216	11.569	11.547	11.593	VV	1867	50057	3.00%	0.201%
217	11.613	11.593	11.659	VV	2399	76796	4.60%	0.309%
218	11.698	11.659	11.750	VV	5152	140879	8.45%	0.567%
219	11.776	11.750	11.797	VV	2189	56183	3.37%	0.226%
220	11.814	11.797	11.836	VV	2212	45812	2.75%	0.184%
221	11.888	11.836	11.904	VV	3138	97648	5.85%	0.393%
222	11.912	11.904	11.952	VV	3127	74313	4.45%	0.299%
223	11.972	11.952	11.994	VV	2263	53581	3.21%	0.215%
224	12.013	11.994	12.031	VV	2505	50609	3.03%	0.204%
225	12.076	12.031	12.092	VV	3614	109320	6.55%	0.440%
226	12.120	12.092	12.135	VV	3938	97731	5.86%	0.393%
227	12.155	12.135	12.200	VV	6639	192599	11.55%	0.775%
228	12.259	12.200	12.317	VV	6359	319318	19.14%	1.284%
229	12.351	12.317	12.368	VV	3874	115632	6.93%	0.465%
230	12.414	12.368	12.457	VV	4816	207917	12.46%	0.836%
231	12.478	12.457	12.490	VV	3532	68566	4.11%	0.276%
232	12.504	12.490	12.514	VV	3545	48531	2.91%	0.195%
233	12.541	12.514	12.630	VV	96340	1479744	88.70%	5.951%
234	12.641	12.630	12.735	VV	5636	306475	18.37%	1.233%
235	12.749	12.735	12.767	VV	4758	85989	5.15%	0.346%
236	12.786	12.767	12.820	VV	4942	147226	8.83%	0.592%
237	12.841	12.820	12.852	VV	5815	101372	6.08%	0.408%
238	12.863	12.852	12.897	VV	5882	148771	8.92%	0.598%
239	12.921	12.897	12.937	VV	6549	138309	8.29%	0.556%
240	12.947	12.937	12.969	VV	6063	109953	6.59%	0.442%
241	12.991	12.969	13.002	VV	6525	122662	7.35%	0.493%
242	13.012	13.002	13.025	VV	6549	89266	5.35%	0.359%
243	13.045	13.025	13.163	VV	22336	899704	53.93%	3.618%
244	13.184	13.163	13.224	VV	6506	207837	12.46%	0.836%
245	13.246	13.224	13.260	VV	6349	127987	7.67%	0.515%
246	13.271	13.260	13.304	VV	6177	153137	9.18%	0.616%

rteres

247	13.344	13.304	13.398	VV	21477	681767	40.87%	2.742%
248	13.412	13.398	13.492	VV	10406	454489	27.24%	1.828%
249	13.533	13.492	13.549	VV	8098	239104	14.33%	0.962%
250	13.569	13.549	13.596	VV	10609	247898	14.86%	0.997%
251	13.618	13.596	13.687	VV	9493	414261	24.83%	1.666%
252	13.696	13.687	13.730	VV	6507	162812	9.76%	0.655%
253	13.770	13.730	13.832	VV	43853	946427	56.73%	3.806%
254	13.853	13.832	13.901	VV	8180	316643	18.98%	1.273%
255	13.910	13.901	13.925	VV	7028	96293	5.77%	0.387%
256	13.985	13.925	14.014	VV	9382	427829	25.65%	1.721%
257	14.029	14.014	14.061	VV	8333	214947	12.89%	0.864%
258	14.081	14.061	14.099	VV	8890	177590	10.65%	0.714%
259	14.119	14.099	14.190	VV	9333	427924	25.65%	1.721%
260	14.202	14.190	14.224	VV	6836	129382	7.76%	0.520%
261	14.260	14.224	14.288	VV	7465	259743	15.57%	1.045%
262	14.351	14.288	14.380	VV	7694	375207	22.49%	1.509%
263	14.388	14.380	14.399	VV	6080	66592	3.99%	0.268%
264	14.420	14.399	14.466	VV	6563	243467	14.59%	0.979%
265	14.519	14.466	14.547	VV	7585	318256	19.08%	1.280%
266	14.589	14.547	14.630	VV	6766	309153	18.53%	1.243%
267	14.642	14.630	14.657	VV	5751	90973	5.45%	0.366%
268	14.682	14.657	14.709	VV	8996	215765	12.93%	0.868%
269	14.744	14.709	14.787	VV	6499	285174	17.09%	1.147%
270	14.808	14.787	14.870	VV	7047	316020	18.94%	1.271%
271	14.914	14.870	14.937	VV	7086	240268	14.40%	0.966%
272	14.959	14.937	14.983	VV	7573	194875	11.68%	0.784%
273	15.018	14.983	15.050	VV	109543	1668181	100.00%	6.709%
274	15.066	15.050	15.104	VV	8584	223575	13.40%	0.899%
275	15.122	15.104	15.160	VV	5981	189231	11.34%	0.761%
276	15.221	15.160	15.249	VV	11083	356494	21.37%	1.434%
277	15.284	15.249	15.295	VV	9846	198627	11.91%	0.799%
278	15.313	15.295	15.395	VV	10896	499911	29.97%	2.010%
279	15.419	15.395	15.444	VV	6955	187569	11.24%	0.754%
280	15.454	15.444	15.536	VV	6061	300577	18.02%	1.209%
281	15.555	15.536	15.574	VV	5046	106659	6.39%	0.429%
282	15.605	15.574	15.707	VV	46248	1031514	61.83%	4.148%
283	15.742	15.707	15.792	VV	12721	366757	21.99%	1.475%
284	15.814	15.792	15.862	VV	6132	200637	12.03%	0.807%
285	15.882	15.862	15.905	VV	3759	94935	5.69%	0.382%
286	15.914	15.905	15.922	VV	3633	35054	2.10%	0.141%
287	15.966	15.922	16.005	VV	6744	244044	14.63%	0.981%
288	16.015	16.005	16.029	VV	4623	64760	3.88%	0.260%
289	16.061	16.029	16.104	VV	5265	211779	12.70%	0.852%
290	16.127	16.104	16.197	VV	5704	242717	14.55%	0.976%
291	16.204	16.197	16.217	VV	3298	38696	2.32%	0.156%
292	16.243	16.217	16.330	VV	10155	288928	17.32%	1.162%
293	16.342	16.330	16.362	VV	2347	42495	2.55%	0.171%
294	16.373	16.362	16.407	VV	2313	57493	3.45%	0.231%
295	16.424	16.407	16.445	VV	2605	55351	3.32%	0.223%
296	16.471	16.445	16.511	VV	3057	100760	6.04%	0.405%
297	16.554	16.511	16.582	VV	2689	97481	5.84%	0.392%
298	16.620	16.582	16.695	VV	7053	229061	13.73%	0.921%
299	16.726	16.695	16.765	VV	11615	207419	12.43%	0.834%

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300	16.772	16.765	16.792	VV	1837	26740	1.60%	0.108%
301	16.818	16.792	16.832	VV	1888	41177	2.47%	0.166%
302	16.852	16.832	16.890	VV	7709	186039	11.15%	0.748%
303	16.902	16.890	16.929	VV	4403	95830	5.74%	0.385%
304	16.944	16.929	16.975	VV	4980	108157	6.48%	0.435%
305	16.999	16.975	17.018	VV	3493	81625	4.89%	0.328%
306	17.042	17.018	17.134	VV	7415	196262	11.77%	0.789%
307	17.192	17.134	17.228	VV	9695	226343	13.57%	0.910%
308	17.276	17.228	17.342	VV	7380	229208	13.74%	0.922%
309	17.368	17.342	17.500	VBA	1867	98524	5.91%	0.396%
			Sum of corrected areas:			24865391		

FF052125.M Thu May 22 00:04:22 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF052125\
Data File : FF015886.D
Signal(s) : FID2B.ch
Acq On : 21 May 2025 16:10
Operator : YP\AJ
Sample : Q2074-07
Misc :
ALS Vial : 37 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: May 21 23:37:59 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF052125.M
Quant Title :
QLast Update : Wed May 21 12:32:51 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal Phase : Rxi-1ms
Signal Info : 20mx0.18mmx0.18um

Instrument :
FID_F
ClientSampleId :
TP-40

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 05/22/2025
Supervised By :mohammad ahmed 05/23/2025

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
9) S TETRACOSANE-d50 (SURR...	15.017	1396428	11.433 ug/mlm
Target Compounds			

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

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF052125\
Data File : FF015886.D
Signal(s) : FID2B.ch
Acq On : 21 May 2025 16:10
Operator : YP\AJ
Sample : Q2074-07
Misc :
ALS Vial : 37 Sample Multiplier: 1

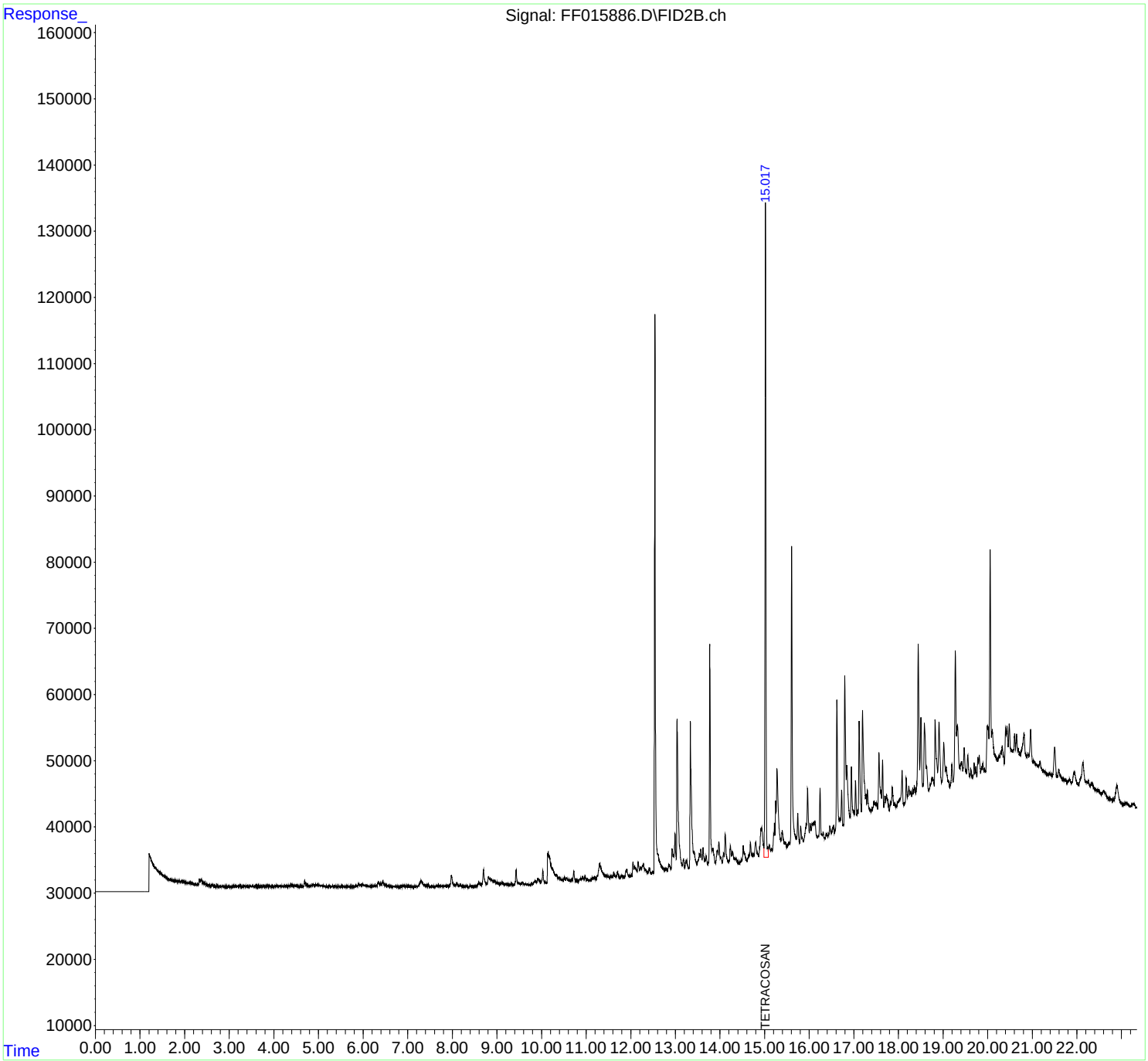
Integration File: autoint1.e
Quant Time: May 21 23:37:59 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF052125.M
Quant Title :
QLast Update : Wed May 21 12:32:51 2025
Response via : Initial Calibration
Integrator: ChemStation

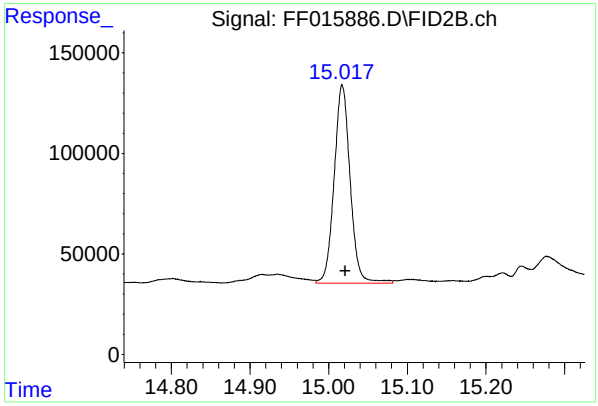
Volume Inj. : 1uL
Signal Phase : Rxi-1ms
Signal Info : 20mx0.18mmx0.18um

Instrument :
FID_F
ClientSampleId :
TP-40

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 05/22/2025
Supervised By :mohammad ahmed 05/23/2025





#9 TETRACOSANE-d50 (SURROGATE)

R.T.: 15.017 min
Delta R.T.: -0.004 mi
Response: 1396428
Conc: 11.43 ug/m

Instrument :
FID_F
ClientSampleId :
TP-40

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 05/22/2025
Supervised By :mohammad ahmed 05/23/2025

11

Instrument :
FID_F
ClientSampleId :
TP-40

rteres

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 05/22/2025
Supervised By :mohammad ahmed 05/23/2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF05212
Data File : FF015886.D
Signal(s) : FID2B.ch
Acq On : 21 May 2025 16:10
Sample : Q2074-07
Misc :
ALS Vial : 37 Sample Multiplier: 1

Integration File: Sample.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF052125.M
Title :

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.006	4.000	4.014	BV	94	492	0.04%	0.004%
2	4.018	4.014	4.056	PV	152	2698	0.19%	0.021%
3	4.059	4.056	4.077	VV	175	1630	0.12%	0.013%
4	4.081	4.077	4.093	VV	144	1254	0.09%	0.010%
5	4.101	4.093	4.118	VV	184	1627	0.12%	0.013%
6	4.125	4.118	4.138	VV	125	1438	0.10%	0.011%
7	4.143	4.138	4.158	VV	226	1648	0.12%	0.013%
8	4.161	4.158	4.173	VV	125	975	0.07%	0.008%
9	4.182	4.173	4.197	VV	163	1494	0.11%	0.012%
10	4.203	4.197	4.214	VV	194	1118	0.08%	0.009%
11	4.219	4.214	4.226	VV	187	882	0.06%	0.007%
12	4.232	4.226	4.251	VV	134	1751	0.13%	0.014%
13	4.257	4.251	4.263	VV	178	1054	0.08%	0.008%
14	4.269	4.263	4.292	VV	180	1970	0.14%	0.015%
15	4.295	4.292	4.318	VV	145	1472	0.11%	0.011%
16	4.328	4.318	4.335	VV	172	1193	0.09%	0.009%
17	4.384	4.335	4.408	VV	392	10073	0.73%	0.079%
18	4.413	4.408	4.430	VV	263	2934	0.21%	0.023%
19	4.433	4.430	4.453	VV	251	2712	0.20%	0.021%
20	4.471	4.453	4.482	VV	210	2658	0.19%	0.021%
21	4.487	4.482	4.493	VV	159	908	0.07%	0.007%
22	4.501	4.493	4.507	VV	336	1422	0.10%	0.011%
23	4.520	4.507	4.537	VV	197	2374	0.17%	0.019%
24	4.540	4.537	4.553	VV	170	1125	0.08%	0.009%
25	4.568	4.553	4.606	VV	181	3596	0.26%	0.028%
26	4.609	4.606	4.652	VV	146	2347	0.17%	0.018%
27	4.656	4.652	4.664	VV	140	536	0.04%	0.004%
28	4.688	4.664	4.737	VV	961	20609	1.48%	0.161%
29	4.743	4.737	4.757	VV	308	2911	0.21%	0.023%
30	4.759	4.757	4.772	VV	298	1987	0.14%	0.016%
31	4.776	4.772	4.786	VV	213	1565	0.11%	0.012%
32	4.795	4.786	4.802	VV	253	1523	0.11%	0.012%
33	4.817	4.802	4.837	VV	220	3428	0.25%	0.027%
34	4.871	4.837	4.876	VV	375	5669	0.41%	0.044%
35	4.885	4.876	4.897	VV	354	4061	0.29%	0.032%
36	4.903	4.897	4.907	VV	346	1675	0.12%	0.013%

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Manual IntegrationsAPPROVED

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A B C D E F G H I J

rteres

37	4.912	4.907	4.918	VV	300	1844	0.13%	0.014%
38	4.926	4.918	4.932	VV	352	2295		
39	4.940	4.932	4.959	VV	325	4818		
40	4.967	4.959	5.001	VV	313	6452		
41	5.016	5.001	5.037	VV	298	4977		
42	5.043	5.037	5.054	VV	263	1999		
43	5.064	5.054	5.070	VV	204	1889	0.14%	0.015%
44	5.079	5.070	5.089	VV	230	2006	0.14%	0.016%
45	5.096	5.089	5.122	VV	240	3278	0.24%	0.026%
46	5.128	5.122	5.175	VV	181	3264	0.23%	0.025%
47	5.201	5.175	5.214	VV	166	2350	0.17%	0.018%
48	5.239	5.214	5.244	VV	130	1621	0.12%	0.013%
49	5.248	5.244	5.269	VV	111	1266	0.09%	0.010%
50	5.275	5.269	5.291	VV	141	1189	0.09%	0.009%
51	5.306	5.291	5.338	VV	156	3252	0.23%	0.025%
52	5.348	5.338	5.360	VV	152	1427	0.10%	0.011%
53	5.364	5.360	5.370	VV	183	780	0.06%	0.006%
54	5.373	5.370	5.397	VV	140	1466	0.11%	0.011%
55	5.405	5.397	5.412	VV	170	1097	0.08%	0.009%
56	5.414	5.412	5.435	VV	161	1368	0.10%	0.011%
57	5.440	5.435	5.446	VV	151	565	0.04%	0.004%
58	5.453	5.446	5.481	VV	115	1715	0.12%	0.013%
59	5.489	5.481	5.494	VV	164	757	0.05%	0.006%
60	5.503	5.494	5.507	VV	148	827	0.06%	0.006%
61	5.513	5.507	5.525	VV	121	1091	0.08%	0.009%
62	5.531	5.525	5.535	VV	150	646	0.05%	0.005%
63	5.540	5.535	5.547	VV	121	681	0.05%	0.005%
64	5.550	5.547	5.557	VV	150	570	0.04%	0.004%
65	5.566	5.557	5.581	VV	146	1308	0.09%	0.010%
66	5.585	5.581	5.609	VV	156	1530	0.11%	0.012%
67	5.613	5.609	5.623	VV	166	1036	0.07%	0.008%
68	5.639	5.623	5.647	VV	163	1497	0.11%	0.012%
69	5.665	5.647	5.697	VV	140	2570	0.18%	0.020%
70	5.699	5.697	5.707	VV	120	487	0.04%	0.004%
71	5.713	5.707	5.727	VV	171	1155	0.08%	0.009%
72	5.731	5.727	5.739	VV	129	632	0.05%	0.005%
73	5.746	5.739	5.754	VV	109	735	0.05%	0.006%
74	5.759	5.754	5.770	VV	107	691	0.05%	0.005%
75	5.780	5.770	5.804	VV	152	1912	0.14%	0.015%
76	5.806	5.804	5.812	VV	149	505	0.04%	0.004%
77	5.826	5.812	5.847	VV	184	3020	0.22%	0.024%
78	5.855	5.847	5.870	VV	197	2150	0.15%	0.017%
79	5.896	5.870	5.927	VV	480	11418	0.82%	0.089%
80	5.934	5.927	5.951	VV	345	4506	0.32%	0.035%
81	5.972	5.951	5.987	VV	414	7167	0.52%	0.056%
82	5.993	5.987	6.009	VV	340	4076	0.29%	0.032%
83	6.013	6.009	6.023	VV	380	2586	0.19%	0.020%
84	6.029	6.023	6.037	VV	313	2258	0.16%	0.018%
85	6.045	6.037	6.061	VV	291	3507	0.25%	0.027%
86	6.066	6.061	6.099	VV	257	5092	0.37%	0.040%
87	6.105	6.099	6.135	VV	258	3699	0.27%	0.029%
88	6.142	6.135	6.163	VV	175	2220	0.16%	0.017%
89	6.169	6.163	6.180	VV	139	1258	0.09%	0.010%

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90	6.189	6.180	6.204	VV	168	1932	0.14%	0.015%
91	6.215	6.204	6.222	VV	164	1380		
92	6.231	6.222	6.240	VV	159	1419		
93	6.290	6.240	6.312	VV	290	9142		
94	6.339	6.312	6.419	VV	782	31960		
95	6.444	6.419	6.474	VV	1023	20182		
96	6.480	6.474	6.509	VV	383	6744	0.49%	0.053%
97	6.513	6.509	6.540	VV	328	4625	0.33%	0.036%
98	6.547	6.540	6.554	VV	317	1721	0.12%	0.013%
99	6.558	6.554	6.582	VV	260	3188	0.23%	0.025%
100	6.587	6.582	6.597	VV	192	1234	0.09%	0.010%
101	6.605	6.597	6.614	VV	182	1292	0.09%	0.010%
102	6.617	6.614	6.621	VV	159	402	0.03%	0.003%
103	6.642	6.621	6.657	VV	151	2381	0.17%	0.019%
104	6.672	6.657	6.696	VV	103	1747	0.13%	0.014%
105	6.719	6.696	6.724	VV	135	1442	0.10%	0.011%
106	6.743	6.724	6.766	VV	146	2504	0.18%	0.020%
107	6.772	6.766	6.776	VV	146	576	0.04%	0.004%
108	6.781	6.776	6.786	VV	132	527	0.04%	0.004%
109	6.790	6.786	6.802	VV	134	831	0.06%	0.006%
110	6.808	6.802	6.816	VV	111	694	0.05%	0.005%
111	6.874	6.816	6.880	VV	273	5130	0.37%	0.040%
112	6.888	6.880	6.900	VV	231	1984	0.14%	0.015%
113	6.916	6.900	6.989	VV	233	8580	0.62%	0.067%
114	7.002	6.989	7.024	VV	175	2641	0.19%	0.021%
115	7.063	7.024	7.115	PV	178	5152	0.37%	0.040%
116	7.165	7.115	7.190	VV	174	4150	0.30%	0.032%
117	7.292	7.190	7.424	VV	1006	60522	4.36%	0.473%
118	7.434	7.424	7.454	VV	299	4089	0.29%	0.032%
119	7.459	7.454	7.520	VV	246	6035	0.43%	0.047%
120	7.531	7.520	7.572	VV	122	2450	0.18%	0.019%
121	7.644	7.572	7.660	VV	230	7712	0.56%	0.060%
122	7.681	7.660	7.730	VV	245	7559	0.54%	0.059%
123	7.751	7.730	7.798	VV	194	6504	0.47%	0.051%
124	7.807	7.798	7.851	VV	210	5261	0.38%	0.041%
125	7.858	7.851	7.900	VV	186	3994	0.29%	0.031%
126	7.982	7.900	8.072	VV	1818	55776	4.01%	0.435%
127	8.098	8.072	8.158	VV	711	17671	1.27%	0.138%
128	8.181	8.158	8.279	VV	352	10240	0.74%	0.080%
129	8.293	8.279	8.314	VV	85	1666	0.12%	0.013%
130	8.322	8.314	8.359	VV	125	1964	0.14%	0.015%
131	8.408	8.359	8.427	PV	197	3336	0.24%	0.026%
132	8.440	8.427	8.473	VV	195	2624	0.19%	0.020%
133	8.495	8.473	8.507	VV	105	1042	0.08%	0.008%
134	8.595	8.507	8.650	VV	659	26974	1.94%	0.211%
135	8.700	8.650	8.777	VV	2583	72144	5.19%	0.563%
136	8.810	8.777	8.879	VV	1496	61828	4.45%	0.483%
137	8.883	8.879	8.930	VV	1057	25921	1.87%	0.202%
138	8.952	8.930	8.989	VV	1007	23669	1.70%	0.185%
139	9.013	8.989	9.046	VV	632	15714	1.13%	0.123%
140	9.089	9.046	9.105	VV	506	14389	1.04%	0.112%
141	9.113	9.105	9.190	VV	543	18270	1.31%	0.143%

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142	9.199	9.190	9.229	VV	324	5888	0.42%	0.046%
143	9.249	9.229	9.290	VV	248	5979		
144	9.324	9.290	9.353	VV	274	6911		
145	9.363	9.353	9.377	VV	197	1853		
146	9.431	9.377	9.534	VV	2419	60493		
147	9.570	9.534	9.609	VV	562	13477		
148	9.615	9.609	9.630	VV	227	2356	0.17%	0.018%
149	9.651	9.630	9.670	VV	239	4050	0.29%	0.032%
150	9.694	9.670	9.744	VV	207	4786	0.34%	0.037%
151	9.754	9.744	9.767	PV	118	1423	0.10%	0.011%
152	9.783	9.767	9.804	VV	261	4110	0.30%	0.032%
153	9.865	9.804	9.888	VV	618	21318	1.53%	0.166%
154	9.920	9.888	9.994	VV	927	35690	2.57%	0.279%
155	10.030	9.994	10.117	VV	2111	47312	3.41%	0.369%
156	10.143	10.117	10.314	VV	4625	314661	22.65%	2.457%
157	10.322	10.314	10.460	VV	1245	72692	5.23%	0.568%
158	10.465	10.460	10.490	VV	591	8553	0.62%	0.067%
159	10.516	10.490	10.542	VV	814	18347	1.32%	0.143%
160	10.560	10.542	10.642	VV	718	25976	1.87%	0.203%
161	10.665	10.642	10.687	VV	411	8540	0.61%	0.067%
162	10.724	10.687	10.789	VV	1663	35284	2.54%	0.275%
163	10.881	10.789	10.898	VV	490	16326	1.18%	0.127%
164	10.920	10.898	10.952	VV	789	15225	1.10%	0.119%
165	10.978	10.952	11.010	VV	823	15185	1.09%	0.119%
166	11.027	11.010	11.057	VV	266	4517	0.33%	0.035%
167	11.077	11.057	11.097	VV	126	2147	0.15%	0.017%
168	11.133	11.097	11.150	VV	535	9090	0.65%	0.071%
169	11.189	11.150	11.225	VV	631	16251	1.17%	0.127%
170	11.244	11.225	11.254	VV	711	8615	0.62%	0.067%
171	11.299	11.254	11.410	VV	2470	134230	9.66%	1.048%
172	11.416	11.410	11.518	VV	676	33254	2.39%	0.260%
173	11.565	11.518	11.599	VV	469	18685	1.34%	0.146%
174	11.618	11.599	11.660	VV	1050	22124	1.59%	0.173%
175	11.703	11.660	11.760	VV	1089	30486	2.19%	0.238%
176	11.783	11.760	11.800	PV	494	7089	0.51%	0.055%
177	11.816	11.800	11.844	VV	458	7344	0.53%	0.057%
178	11.891	11.844	11.899	VV	1107	16006	1.15%	0.125%
179	11.912	11.899	11.950	VV	1269	24264	1.75%	0.189%
180	11.969	11.950	11.990	VV	340	5289	0.38%	0.041%
181	12.014	11.990	12.029	VV	361	5274	0.38%	0.041%
182	12.050	12.029	12.069	VV	2296	32898	2.37%	0.257%
183	12.084	12.069	12.147	VV	1489	56051	4.03%	0.438%
184	12.165	12.147	12.199	VV	2192	45795	3.30%	0.358%
185	12.218	12.199	12.244	VV	1372	31798	2.29%	0.248%
186	12.284	12.244	12.315	VV	1807	58687	4.22%	0.458%
187	12.328	12.315	12.382	VV	1003	26006	1.87%	0.203%
188	12.413	12.382	12.459	VV	1144	27706	1.99%	0.216%
189	12.493	12.459	12.512	VV	420	9607	0.69%	0.075%
190	12.541	12.512	12.707	VV	84480	1257995	90.54%	9.821%
191	12.720	12.707	12.769	VV	920	24768	1.78%	0.193%
192	12.797	12.769	12.829	VV	722	19014	1.37%	0.148%
193	12.852	12.829	12.902	VV	1302	38959	2.80%	0.304%
194	12.929	12.902	12.951	VV	3511	66549	4.79%	0.520%

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195	12.991	12.951	13.020	VV	5801	139689	10.05%	1.091%
196	13.039	13.020	13.159	VV	22942	542814	39	
197	13.181	13.159	13.212	VV	1825	37000	2	
198	13.254	13.212	13.299	VV	1564	48712	3	
199	13.336	13.299	13.405	VV	22422	498593	35	
200	13.418	13.405	13.489	VV	2810	86350	6	
201	13.537	13.489	13.554	VV	2306	62568	4.50%	0.488%
202	13.570	13.554	13.597	VV	2979	55202	3.97%	0.431%
203	13.619	13.597	13.661	VV	3175	74849	5.39%	0.584%
204	13.690	13.661	13.727	VV	1832	46583	3.35%	0.364%
205	13.770	13.727	13.817	VV	33704	502405	36.16%	3.922%
206	13.840	13.817	13.897	VV	2915	92103	6.63%	0.719%
207	13.938	13.897	13.957	VV	2502	62036	4.47%	0.484%
208	13.975	13.957	14.050	VV	3714	102775	7.40%	0.802%
209	14.078	14.050	14.094	VV	1882	35918	2.59%	0.280%
210	14.116	14.094	14.193	VV	4696	119985	8.64%	0.937%
211	14.231	14.193	14.264	VV	2931	67914	4.89%	0.530%
212	14.283	14.264	14.349	VV	2013	64357	4.63%	0.502%
213	14.356	14.349	14.420	VV	934	21068	1.52%	0.164%
214	14.481	14.420	14.495	PV	508	12969	0.93%	0.101%
215	14.519	14.495	14.609	VV	2648	73044	5.26%	0.570%
216	14.683	14.609	14.735	PV	2741	80733	5.81%	0.630%
217	14.752	14.735	14.762	VV	864	11623	0.84%	0.091%
218	14.801	14.762	14.867	VV	2561	82409	5.93%	0.643%
219	14.916	14.867	14.925	VV	4458	82074	5.91%	0.641%
220	14.935	14.925	14.985	VV	4549	104863	7.55%	0.819%
221	15.017	14.985	15.087	VV	98486	1389361	100.00%	10.847%
222	15.105	15.087	15.135	VV	1542	33357	2.40%	0.260%
223	15.158	15.135	15.174	VV	896	16145	1.16%	0.126%
224	15.221	15.174	15.231	VV	4592	89363	6.43%	0.698%
225	15.246	15.231	15.257	VV	7903	92955	6.69%	0.726%
226	15.278	15.257	15.364	VV	12576	388153	27.94%	3.030%
227	15.394	15.364	15.440	VV	3064	96358	6.94%	0.752%
228	15.458	15.440	15.502	VV	1278	35370	2.55%	0.276%
229	15.545	15.502	15.560	VV	1080	27101	1.95%	0.212%
230	15.604	15.560	15.711	VV	45690	802906	57.79%	6.268%
231	15.742	15.711	15.783	VV	5023	96854	6.97%	0.756%
232	15.807	15.783	15.868	VV	2964	76010	5.47%	0.593%
233	15.962	15.868	16.004	VV	8401	245134	17.64%	1.914%
234	16.022	16.004	16.044	VV	2909	55523	4.00%	0.433%
235	16.071	16.044	16.112	VV	2821	108038	7.78%	0.843%
236	16.124	16.112	16.175	VV	3127	70423	5.07%	0.550%
237	16.241	16.175	16.297	VV	7878	146224	10.52%	1.142%
238	16.311	16.297	16.357	VV	1042	16519	1.19%	0.129%
239	16.387	16.357	16.414	PV	624	13261	0.95%	0.104%
240	16.462	16.414	16.502	VV	1471	32702	2.35%	0.255%
241	16.538	16.502	16.570	VV	1247	27996	2.02%	0.219%
242	16.619	16.570	16.679	PV	19938	362609	26.10%	2.831%
243	16.686	16.679	16.704	VV	1686	23362	1.68%	0.182%
244	16.725	16.704	16.757	VV	5811	90600	6.52%	0.707%
245	16.796	16.757	16.829	VV	22806	420513	30.27%	3.283%
246	16.842	16.829	16.917	VV	9077	237975	17.13%	1.858%

11

Instrument :
FID_F
ClientSampleId :
TP-40

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 05/22/2025
Supervised By :mohammad ahmed 05/23/2025

A B C D E F G H I J

rteres

247	16.944	16.917	16.985	VV	8481	154722	11.14%	1.208%
248	16.993	16.985	17.015	VV	1722	27748	2	
249	17.037	17.015	17.067	VV	6081	94935	6	
250	17.085	17.067	17.097	VV	1389	19729	1	
251	17.118	17.097	17.168	VV	14749	267059	19	
252	17.194	17.168	17.262	VV	16040	408368	29	
253	17.273	17.262	17.288	VV	2967	38595	2.78%	0.301%
254	17.304	17.288	17.364	VV	3610	72368	5.21%	0.565%
255	17.374	17.364	17.385	VV	321	2867	0.21%	0.022%
256	17.412	17.385	17.420	PV	430	4542	0.33%	0.035%
257	17.447	17.420	17.459	PV	944	12853	0.93%	0.100%
258	17.490	17.459	17.500	VBA	356	14403	1.04%	0.112%

Sum of corrected areas: 12808804

FF052125.M Thu May 22 00:05:00 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF052125\
Data File : FF015887.D
Signal(s) : FID2B.ch
Acq On : 21 May 2025 16:40
Operator : YP\AJ
Sample : Q2074-08
Misc :
ALS Vial : 38 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
TP-18

Integration File: autoint1.e
Quant Time: May 21 23:38:19 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF052125.M
Quant Title :
QLast Update : Wed May 21 12:32:51 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...	15.016	1308635	10.715 ug/ml
Target Compounds			

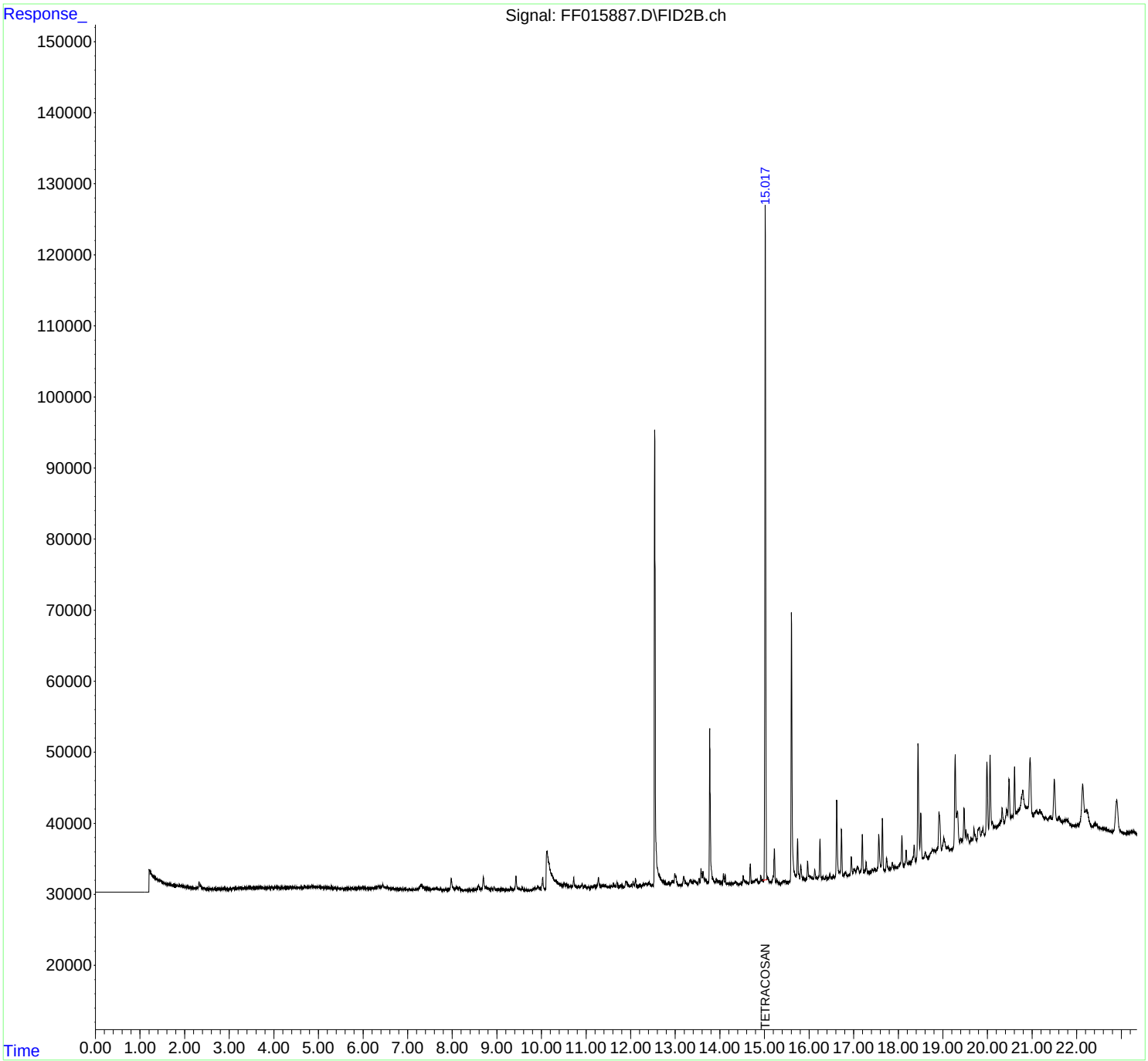
(f)=RT Delta > 1/2 Window (m)=manual int.

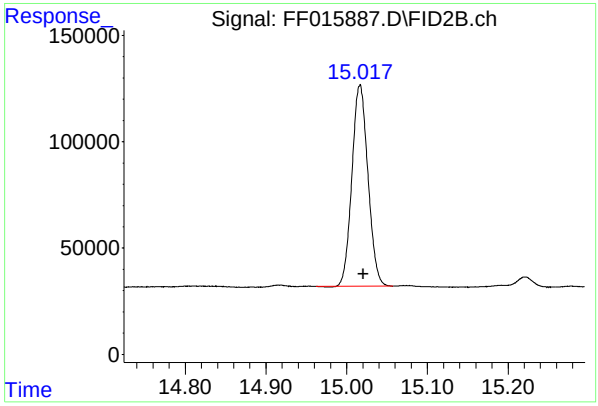
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF052125\
Data File : FF015887.D
Signal(s) : FID2B.ch
Acq On : 21 May 2025 16:40
Operator : YP\AJ
Sample : Q2074-08
Misc :
ALS Vial : 38 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
TP-18

Integration File: autoint1.e
Quant Time: May 21 23:38:19 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF052125.M
Quant Title :
QLast Update : Wed May 21 12:32:51 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.: 15.016 min
Delta R.T.: -0.004 mi
Response: 1308635
Conc: 10.71 ug/m

Instrument :
FID_F
ClientSampleId :
TP-18

11

A B C D E F G H I J

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF052125\
Data File : FF015887.D
Signal(s) : FID2B.ch
Acq On : 21 May 2025 16:40
Sample : Q2074-08
Misc :
ALS Vial : 38 Sample Multiplier: 1

Integration File: Sample.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF052125.M
Title :

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.023	4.006	4.029	BV	57	293	0.02%	0.004%
2	4.033	4.029	4.041	PV	115	382	0.03%	0.006%
3	4.043	4.041	4.058	VV	109	694	0.05%	0.010%
4	4.066	4.058	4.072	VV	105	688	0.05%	0.010%
5	4.076	4.072	4.079	VV	114	386	0.03%	0.006%
6	4.083	4.079	4.090	VV	192	665	0.05%	0.010%
7	4.105	4.090	4.118	PV	161	1787	0.13%	0.026%
8	4.122	4.118	4.132	VV	126	892	0.07%	0.013%
9	4.138	4.132	4.143	VV	141	673	0.05%	0.010%
10	4.157	4.143	4.163	VV	191	1139	0.09%	0.017%
11	4.174	4.163	4.185	VV	186	1413	0.11%	0.021%
12	4.189	4.185	4.200	VV	160	867	0.06%	0.013%
13	4.209	4.200	4.221	VV	136	1337	0.10%	0.020%
14	4.240	4.221	4.301	VV	177	6131	0.46%	0.090%
15	4.313	4.301	4.324	VV	155	1873	0.14%	0.027%
16	4.335	4.324	4.354	VV	206	2525	0.19%	0.037%
17	4.383	4.354	4.394	VV	237	4194	0.31%	0.061%
18	4.400	4.394	4.413	VV	222	1967	0.15%	0.029%
19	4.417	4.413	4.423	VV	229	1236	0.09%	0.018%
20	4.424	4.423	4.433	VV	251	1201	0.09%	0.018%
21	4.437	4.433	4.442	VV	223	990	0.07%	0.015%
22	4.445	4.442	4.457	VV	215	1533	0.11%	0.022%
23	4.461	4.457	4.478	VV	248	2023	0.15%	0.030%
24	4.488	4.478	4.501	VV	212	2038	0.15%	0.030%
25	4.506	4.501	4.522	VV	223	1772	0.13%	0.026%
26	4.537	4.522	4.564	VV	208	3676	0.27%	0.054%
27	4.568	4.564	4.581	VV	217	1358	0.10%	0.020%
28	4.585	4.581	4.610	VV	153	2539	0.19%	0.037%
29	4.618	4.610	4.626	VV	216	1339	0.10%	0.020%
30	4.633	4.626	4.667	VV	172	3518	0.26%	0.052%
31	4.687	4.667	4.712	VV	458	8084	0.60%	0.118%
32	4.722	4.712	4.726	VV	288	2282	0.17%	0.033%
33	4.730	4.726	4.763	VV	294	5192	0.39%	0.076%
34	4.769	4.763	4.783	VV	300	2480	0.19%	0.036%
35	4.789	4.783	4.806	VV	281	3237	0.24%	0.047%
36	4.829	4.806	4.839	VV	353	5593	0.42%	0.082%

rteres

37	4.844	4.839	4.867	VV	406	5489	0.41%	0.080%
38	4.871	4.867	4.893	VV	378	5282	0.40%	0.077%
39	4.896	4.893	4.908	VV	386	3068	0.23%	0.045%
40	4.911	4.908	4.924	VV	373	3125	0.23%	0.046%
41	4.927	4.924	4.937	VV	312	2346	0.18%	0.034%
42	4.944	4.937	4.952	VV	355	2846	0.21%	0.042%
43	4.957	4.952	4.968	VV	301	2502	0.19%	0.037%
44	4.974	4.968	4.983	VV	305	2632	0.20%	0.039%
45	4.985	4.983	5.001	VV	336	2904	0.22%	0.043%
46	5.008	5.001	5.016	VV	290	2524	0.19%	0.037%
47	5.019	5.016	5.044	VV	305	4629	0.35%	0.068%
48	5.051	5.044	5.071	VV	299	3806	0.28%	0.056%
49	5.073	5.071	5.086	VV	216	2056	0.15%	0.030%
50	5.090	5.086	5.110	VV	271	3196	0.24%	0.047%
51	5.113	5.110	5.119	VV	198	1051	0.08%	0.015%
52	5.127	5.119	5.131	VV	281	1398	0.10%	0.020%
53	5.135	5.131	5.147	VV	265	2009	0.15%	0.029%
54	5.151	5.147	5.156	VV	231	1040	0.08%	0.015%
55	5.164	5.156	5.191	VV	244	3767	0.28%	0.055%
56	5.206	5.191	5.240	VV	247	4945	0.37%	0.072%
57	5.244	5.240	5.254	VV	203	1247	0.09%	0.018%
58	5.261	5.254	5.275	VV	191	1830	0.14%	0.027%
59	5.286	5.275	5.299	VV	350	2288	0.17%	0.034%
60	5.308	5.299	5.315	VV	218	1289	0.10%	0.019%
61	5.320	5.315	5.332	VV	162	1313	0.10%	0.019%
62	5.337	5.332	5.341	VV	181	740	0.06%	0.011%
63	5.350	5.341	5.372	VV	160	2391	0.18%	0.035%
64	5.378	5.372	5.388	VV	167	1267	0.09%	0.019%
65	5.395	5.388	5.399	VV	190	775	0.06%	0.011%
66	5.405	5.399	5.416	VV	144	1039	0.08%	0.015%
67	5.419	5.416	5.432	VV	165	988	0.07%	0.014%
68	5.451	5.432	5.456	VV	150	1538	0.12%	0.023%
69	5.464	5.456	5.483	VV	164	1544	0.12%	0.023%
70	5.487	5.483	5.508	VV	172	1371	0.10%	0.020%
71	5.518	5.508	5.522	VV	159	879	0.07%	0.013%
72	5.527	5.522	5.536	VV	125	619	0.05%	0.009%
73	5.541	5.536	5.555	VV	132	977	0.07%	0.014%
74	5.563	5.555	5.567	VV	123	675	0.05%	0.010%
75	5.570	5.567	5.601	VV	162	1987	0.15%	0.029%
76	5.606	5.601	5.637	VV	164	2220	0.17%	0.033%
77	5.660	5.637	5.667	VV	182	2216	0.17%	0.032%
78	5.672	5.667	5.686	VV	218	1150	0.09%	0.017%
79	5.689	5.686	5.693	VV	162	432	0.03%	0.006%
80	5.698	5.693	5.709	VV	118	960	0.07%	0.014%
81	5.717	5.709	5.729	VV	143	1154	0.09%	0.017%
82	5.743	5.729	5.757	VV	147	1626	0.12%	0.024%
83	5.759	5.757	5.785	VV	155	1519	0.11%	0.022%
84	5.795	5.785	5.803	VV	146	1250	0.09%	0.018%
85	5.812	5.803	5.825	VV	165	1596	0.12%	0.023%
86	5.830	5.825	5.843	VV	161	1166	0.09%	0.017%
87	5.852	5.843	5.869	VV	216	2131	0.16%	0.031%
88	5.873	5.869	5.877	VV	198	737	0.06%	0.011%
89	5.891	5.877	5.920	VV	232	5010	0.37%	0.073%

rteres

90	5.935	5.920	5.961	VV	263	4800	0.36%	0.070%
91	5.983	5.961	5.988	VV	242	3443	0.26%	0.050%
92	5.992	5.988	6.003	VV	337	2198	0.16%	0.032%
93	6.010	6.003	6.025	VV	312	3348	0.25%	0.049%
94	6.034	6.025	6.067	VV	263	5058	0.38%	0.074%
95	6.081	6.067	6.093	VV	204	2241	0.17%	0.033%
96	6.097	6.093	6.112	VV	185	1443	0.11%	0.021%
97	6.115	6.112	6.125	VV	160	1046	0.08%	0.015%
98	6.143	6.125	6.152	VV	175	2199	0.16%	0.032%
99	6.164	6.152	6.174	VV	209	2006	0.15%	0.029%
100	6.178	6.174	6.211	VV	220	3629	0.27%	0.053%
101	6.219	6.211	6.225	VV	200	1343	0.10%	0.020%
102	6.231	6.225	6.246	VV	239	2267	0.17%	0.033%
103	6.248	6.246	6.253	VV	271	888	0.07%	0.013%
104	6.260	6.253	6.270	VV	229	2239	0.17%	0.033%
105	6.280	6.270	6.287	VV	265	2492	0.19%	0.037%
106	6.308	6.287	6.314	VV	388	5063	0.38%	0.074%
107	6.318	6.314	6.322	VV	404	1732	0.13%	0.025%
108	6.334	6.322	6.373	VV	531	12900	0.96%	0.189%
109	6.377	6.373	6.387	VV	424	2936	0.22%	0.043%
110	6.395	6.387	6.405	VV	405	4166	0.31%	0.061%
111	6.413	6.405	6.425	VV	434	4939	0.37%	0.072%
112	6.442	6.425	6.470	VV	777	14419	1.08%	0.211%
113	6.476	6.470	6.495	VV	359	4936	0.37%	0.072%
114	6.512	6.495	6.525	VV	389	5844	0.44%	0.086%
115	6.529	6.525	6.537	VV	337	2214	0.17%	0.032%
116	6.542	6.537	6.569	VV	315	5141	0.38%	0.075%
117	6.573	6.569	6.587	VV	236	2069	0.15%	0.030%
118	6.595	6.587	6.620	VV	280	3968	0.30%	0.058%
119	6.623	6.620	6.637	VV	207	1615	0.12%	0.024%
120	6.653	6.637	6.661	VV	232	2316	0.17%	0.034%
121	6.672	6.661	6.692	VV	183	3026	0.23%	0.044%
122	6.696	6.692	6.709	VV	188	1379	0.10%	0.020%
123	6.714	6.709	6.738	VV	176	2309	0.17%	0.034%
124	6.744	6.738	6.754	VV	166	1111	0.08%	0.016%
125	6.757	6.754	6.771	VV	137	903	0.07%	0.013%
126	6.779	6.771	6.789	VV	172	1341	0.10%	0.020%
127	6.812	6.789	6.845	VV	245	4913	0.37%	0.072%
128	6.852	6.845	6.869	VV	188	1757	0.13%	0.026%
129	6.874	6.869	6.882	VV	117	792	0.06%	0.012%
130	6.894	6.882	6.905	VV	149	1700	0.13%	0.025%
131	6.908	6.905	6.913	VV	121	514	0.04%	0.008%
132	6.923	6.913	6.939	VV	147	1680	0.13%	0.025%
133	6.944	6.939	6.957	VV	140	897	0.07%	0.013%
134	6.964	6.957	6.971	VV	153	817	0.06%	0.012%
135	6.979	6.971	6.989	VV	132	928	0.07%	0.014%
136	6.993	6.989	6.998	VV	147	517	0.04%	0.008%
137	7.004	6.998	7.008	VV	126	583	0.04%	0.009%
138	7.021	7.008	7.031	VV	137	1271	0.10%	0.019%
139	7.041	7.031	7.054	VV	158	1322	0.10%	0.019%
140	7.073	7.054	7.082	VV	164	1896	0.14%	0.028%
141	7.088	7.082	7.096	VV	132	779	0.06%	0.011%

rteres

142	7.102	7.096	7.119	VV	184	1544	0.12%	0.023%
143	7.123	7.119	7.128	VV	141	536	0.04%	0.008%
144	7.133	7.128	7.150	VV	114	864	0.06%	0.013%
145	7.157	7.150	7.165	VV	114	502	0.04%	0.007%
146	7.171	7.165	7.194	VV	140	1331	0.10%	0.020%
147	7.203	7.194	7.212	VV	170	993	0.07%	0.015%
148	7.290	7.212	7.294	VV	676	16544	1.24%	0.242%
149	7.298	7.294	7.307	VV	643	4881	0.37%	0.072%
150	7.316	7.307	7.412	VV	701	23888	1.79%	0.350%
151	7.417	7.412	7.431	VV	514	2659	0.20%	0.039%
152	7.462	7.431	7.487	VV	310	7382	0.55%	0.108%
153	7.492	7.487	7.511	VV	195	1741	0.13%	0.026%
154	7.514	7.511	7.519	VV	125	538	0.04%	0.008%
155	7.530	7.519	7.534	VV	151	1160	0.09%	0.017%
156	7.538	7.534	7.556	VV	197	2218	0.17%	0.033%
157	7.583	7.556	7.588	VV	335	4576	0.34%	0.067%
158	7.601	7.588	7.613	VV	297	3771	0.28%	0.055%
159	7.619	7.613	7.628	VV	254	2024	0.15%	0.030%
160	7.637	7.628	7.650	VV	255	2938	0.22%	0.043%
161	7.660	7.650	7.670	VV	495	3254	0.24%	0.048%
162	7.674	7.670	7.684	VV	241	1798	0.13%	0.026%
163	7.689	7.684	7.702	VV	216	1913	0.14%	0.028%
164	7.707	7.702	7.734	VV	240	2852	0.21%	0.042%
165	7.740	7.734	7.772	VV	219	3058	0.23%	0.045%
166	7.775	7.772	7.780	VV	161	532	0.04%	0.008%
167	7.786	7.780	7.791	VV	126	506	0.04%	0.007%
168	7.803	7.791	7.815	VV	191	1612	0.12%	0.024%
169	7.822	7.815	7.836	VV	187	1428	0.11%	0.021%
170	7.852	7.836	7.870	VV	147	2563	0.19%	0.038%
171	7.877	7.870	7.886	VV	151	858	0.06%	0.013%
172	7.890	7.886	7.902	VV	206	1144	0.09%	0.017%
173	7.921	7.902	7.927	VV	195	2288	0.17%	0.034%
174	7.929	7.927	7.941	VV	193	1385	0.10%	0.020%
175	7.979	7.941	8.042	VV	1618	43353	3.24%	0.635%
176	8.047	8.042	8.052	VV	338	1381	0.10%	0.020%
177	8.055	8.052	8.067	VV	282	2175	0.16%	0.032%
178	8.096	8.067	8.142	VV	563	15625	1.17%	0.229%
179	8.158	8.142	8.195	VV	604	9858	0.74%	0.144%
180	8.206	8.195	8.225	VV	147	1770	0.13%	0.026%
181	8.230	8.225	8.256	VV	128	1283	0.10%	0.019%
182	8.267	8.256	8.276	VV	100	848	0.06%	0.012%
183	8.279	8.276	8.291	VV	103	630	0.05%	0.009%
184	8.319	8.291	8.327	PV	157	1971	0.15%	0.029%
185	8.327	8.327	8.356	VV	139	1654	0.12%	0.024%
186	8.381	8.356	8.387	VV	157	1929	0.14%	0.028%
187	8.392	8.387	8.424	VV	139	1863	0.14%	0.027%
188	8.450	8.424	8.481	VV	190	3430	0.26%	0.050%
189	8.493	8.481	8.498	VV	189	995	0.07%	0.015%
190	8.505	8.498	8.510	VV	145	842	0.06%	0.012%
191	8.554	8.510	8.564	VV	285	5572	0.42%	0.082%
192	8.590	8.564	8.621	VV	776	16025	1.20%	0.235%
193	8.627	8.621	8.660	VV	294	5532	0.41%	0.081%
194	8.700	8.660	8.734	VV	1939	41509	3.10%	0.608%

rteres

195	8.739	8.734	8.743	VV	502	2403	0.18%	0.035%
196	8.745	8.743	8.758	VV	491	3833	0.29%	0.056%
197	8.767	8.758	8.787	VV	449	6140	0.46%	0.090%
198	8.797	8.787	8.823	VV	396	6635	0.50%	0.097%
199	8.829	8.823	8.869	VV	274	5334	0.40%	0.078%
200	8.884	8.869	8.906	VV	334	5652	0.42%	0.083%
201	8.912	8.906	8.918	VV	190	1375	0.10%	0.020%
202	8.937	8.918	8.984	VV	559	9578	0.72%	0.140%
203	8.998	8.984	9.028	VV	267	4428	0.33%	0.065%
204	9.077	9.028	9.096	VV	275	5968	0.45%	0.087%
205	9.105	9.096	9.150	VV	284	5950	0.45%	0.087%
206	9.156	9.150	9.179	VV	175	2230	0.17%	0.033%
207	9.184	9.179	9.215	VV	154	1806	0.14%	0.026%
208	9.242	9.215	9.247	VV	182	2178	0.16%	0.032%
209	9.251	9.247	9.269	VV	176	1201	0.09%	0.018%
210	9.274	9.269	9.285	VV	76	506	0.04%	0.007%
211	9.306	9.285	9.337	VV	364	6194	0.46%	0.091%
212	9.341	9.337	9.358	VV	153	1508	0.11%	0.022%
213	9.362	9.358	9.369	VV	157	848	0.06%	0.012%
214	9.376	9.369	9.380	VV	192	810	0.06%	0.012%
215	9.431	9.380	9.489	VV	2034	44979	3.36%	0.659%
216	9.493	9.489	9.503	VV	240	1664	0.12%	0.024%
217	9.508	9.503	9.515	VV	218	1297	0.10%	0.019%
218	9.519	9.515	9.529	VV	204	1257	0.09%	0.018%
219	9.531	9.529	9.540	VV	207	982	0.07%	0.014%
220	9.569	9.540	9.602	VV	441	8837	0.66%	0.130%
221	9.613	9.602	9.628	VV	138	1647	0.12%	0.024%
222	9.633	9.628	9.649	VV	111	907	0.07%	0.013%
223	9.690	9.649	9.709	VV	130	1797	0.13%	0.026%
224	9.719	9.709	9.736	PV	69	545	0.04%	0.008%
225	9.756	9.736	9.760	VV	84	716	0.05%	0.010%
226	9.767	9.760	9.794	VV	152	1334	0.10%	0.020%
227	9.818	9.794	9.822	VV	260	2561	0.19%	0.038%
228	9.835	9.822	9.841	VV	284	2736	0.20%	0.040%
229	9.849	9.841	9.874	VV	333	5122	0.38%	0.075%
230	9.879	9.874	9.884	VV	196	1036	0.08%	0.015%
231	9.918	9.884	9.951	VV	648	15341	1.15%	0.225%
232	9.957	9.951	9.989	VV	379	5575	0.42%	0.082%
233	10.030	9.989	10.069	VV	1781	34899	2.61%	0.512%
234	10.071	10.069	10.097	VV	215	2817	0.21%	0.041%
235	10.124	10.097	10.310	VV	5476	355821	26.61%	5.215%
236	10.319	10.310	10.330	VV	1276	14582	1.09%	0.214%
237	10.332	10.330	10.380	VV	1208	30467	2.28%	0.447%
238	10.385	10.380	10.424	VV	901	20853	1.56%	0.306%
239	10.428	10.424	10.480	VV	748	20260	1.52%	0.297%
240	10.511	10.480	10.537	VV	955	22345	1.67%	0.328%
241	10.556	10.537	10.589	VV	861	19274	1.44%	0.282%
242	10.605	10.589	10.619	VV	479	7402	0.55%	0.108%
243	10.621	10.619	10.640	VV	401	4832	0.36%	0.071%
244	10.659	10.640	10.679	VV	463	10008	0.75%	0.147%
245	10.725	10.679	10.768	VV	1726	37646	2.82%	0.552%
246	10.773	10.768	10.782	VV	400	2832	0.21%	0.042%

rteres

247	10.784	10.782	10.807	VV	362	4249	0.32%	0.062%
248	10.837	10.807	10.864	VV	415	10932	0.82%	0.160%
249	10.883	10.864	10.892	VV	467	6224	0.47%	0.091%
250	10.914	10.892	10.955	VV	720	15798	1.18%	0.232%
251	10.982	10.955	11.014	VV	518	11037	0.83%	0.162%
252	11.019	11.014	11.024	VV	183	932	0.07%	0.014%
253	11.032	11.024	11.037	VV	252	1753	0.13%	0.026%
254	11.041	11.037	11.056	VV	235	2296	0.17%	0.034%
255	11.061	11.056	11.086	VV	208	2804	0.21%	0.041%
256	11.124	11.086	11.144	VV	361	6994	0.52%	0.103%
257	11.155	11.144	11.169	VV	348	4645	0.35%	0.068%
258	11.186	11.169	11.224	VV	533	10549	0.79%	0.155%
259	11.278	11.224	11.324	VV	1448	38719	2.90%	0.568%
260	11.332	11.324	11.337	VV	328	2437	0.18%	0.036%
261	11.387	11.337	11.394	VV	446	12197	0.91%	0.179%
262	11.395	11.394	11.412	VV	441	3764	0.28%	0.055%
263	11.421	11.412	11.429	VV	472	4452	0.33%	0.065%
264	11.432	11.429	11.495	VV	489	9681	0.72%	0.142%
265	11.529	11.495	11.550	VV	307	7222	0.54%	0.106%
266	11.576	11.550	11.592	VV	361	6765	0.51%	0.099%
267	11.614	11.592	11.648	VV	765	13353	1.00%	0.196%
268	11.697	11.648	11.748	VV	807	19944	1.49%	0.292%
269	11.778	11.748	11.799	VV	401	7345	0.55%	0.108%
270	11.813	11.799	11.837	VV	394	4215	0.32%	0.062%
271	11.853	11.837	11.862	PV	145	1521	0.11%	0.022%
272	11.894	11.862	11.953	VV	944	30517	2.28%	0.447%
273	11.966	11.953	11.980	VV	378	4807	0.36%	0.070%
274	11.986	11.980	11.991	VV	218	1156	0.09%	0.017%
275	12.014	11.991	12.032	VV	424	7431	0.56%	0.109%
276	12.053	12.032	12.083	VV	876	15382	1.15%	0.225%
277	12.107	12.083	12.162	VV	1289	21669	1.62%	0.318%
278	12.187	12.162	12.192	VV	327	3325	0.25%	0.049%
279	12.197	12.192	12.216	VV	267	3450	0.26%	0.051%
280	12.226	12.216	12.247	VV	308	4486	0.34%	0.066%
281	12.285	12.247	12.314	VV	541	14514	1.09%	0.213%
282	12.338	12.314	12.354	VV	601	11194	0.84%	0.164%
283	12.358	12.354	12.377	VV	521	5700	0.43%	0.084%
284	12.406	12.377	12.412	VV	701	11205	0.84%	0.164%
285	12.415	12.412	12.482	VV	674	14898	1.11%	0.218%
286	12.486	12.482	12.510	VV	278	3567	0.27%	0.052%
287	12.540	12.510	12.629	VV	64080	934131	69.87%	13.692%
288	12.642	12.629	12.754	VV	1731	77578	5.80%	1.137%
289	12.759	12.754	12.804	VV	648	14576	1.09%	0.214%
290	12.810	12.804	12.816	VV	374	2315	0.17%	0.034%
291	12.820	12.816	12.829	VV	335	2522	0.19%	0.037%
292	12.858	12.829	12.888	VV	678	16211	1.21%	0.238%
293	12.890	12.888	12.895	VV	335	1311	0.10%	0.019%
294	12.921	12.895	12.934	VV	825	13103	0.98%	0.192%
295	12.953	12.934	12.970	VV	898	14783	1.11%	0.217%
296	12.991	12.970	13.004	VV	1800	25418	1.90%	0.373%
297	13.011	13.004	13.084	VV	1398	29801	2.23%	0.437%
298	13.085	13.084	13.089	VV	176	442	0.03%	0.006%
299	13.092	13.089	13.097	VV	122	590	0.04%	0.009%

rteres

300	13.110	13.097	13.134	VV	216	2707	0.20%	0.040%
301	13.143	13.134	13.150	VV	159	1178	0.09%	0.017%
302	13.190	13.150	13.234	VV	1348	36251	2.71%	0.531%
303	13.237	13.234	13.288	VV	508	10765	0.81%	0.158%
304	13.339	13.288	13.367	VV	891	26910	2.01%	0.394%
305	13.374	13.367	13.397	VV	623	8567	0.64%	0.126%
306	13.421	13.397	13.505	VV	736	34458	2.58%	0.505%
307	13.535	13.505	13.553	VV	1059	17846	1.33%	0.262%
308	13.577	13.553	13.605	VV	2397	45467	3.40%	0.666%
309	13.621	13.605	13.671	VV	1991	50398	3.77%	0.739%
310	13.683	13.671	13.725	VV	933	20811	1.56%	0.305%
311	13.735	13.725	13.747	VV	481	5847	0.44%	0.086%
312	13.773	13.747	13.894	VV	22097	374332	28.00%	5.487%
313	13.920	13.894	13.965	VV	818	25601	1.91%	0.375%
314	13.977	13.965	14.019	VV	620	12643	0.95%	0.185%
315	14.031	14.019	14.062	VV	280	6191	0.46%	0.091%
316	14.081	14.062	14.101	VV	1575	22701	1.70%	0.333%
317	14.119	14.101	14.146	VV	1472	20918	1.56%	0.307%
318	14.155	14.146	14.161	VV	218	1688	0.13%	0.025%
319	14.183	14.161	14.238	VV	273	8595	0.64%	0.126%
320	14.265	14.238	14.292	VV	292	5328	0.40%	0.078%
321	14.354	14.292	14.440	VV	462	17545	1.31%	0.257%
322	14.483	14.440	14.495	PV	241	3841	0.29%	0.056%
323	14.522	14.495	14.585	VV	1271	30385	2.27%	0.445%
324	14.597	14.585	14.631	VV	372	6324	0.47%	0.093%
325	14.643	14.631	14.651	VV	168	1817	0.14%	0.027%
326	14.681	14.651	14.718	VV	2910	41989	3.14%	0.615%
327	14.743	14.718	14.752	VV	365	6409	0.48%	0.094%
328	14.766	14.752	14.781	VV	412	6654	0.50%	0.098%
329	14.806	14.781	14.869	VV	676	27343	2.05%	0.401%
330	14.917	14.869	14.938	VV	1166	21400	1.60%	0.314%
331	14.952	14.938	14.978	VV	636	11944	0.89%	0.175%
332	15.016	14.978	15.059	VV	95294	1337025	100.00%	19.597%
333	15.074	15.059	15.138	VV	894	22530	1.69%	0.330%
334	15.221	15.138	15.255	VV	4930	89347	6.68%	1.310%
335	15.278	15.255	15.374	VV	606	12652	0.95%	0.185%
336	15.422	15.374	15.438	PV	382	6853	0.51%	0.100%
337	15.456	15.438	15.515	VV	354	7486	0.56%	0.110%
338	15.556	15.515	15.571	VV	268	4301	0.32%	0.063%
339	15.605	15.571	15.705	VV	38018	611779	45.76%	8.967%
340	15.741	15.705	15.789	VV	6043	111184	8.32%	1.630%
341	15.814	15.789	15.861	VV	2315	47846	3.58%	0.701%
342	15.874	15.861	15.911	VV	454	10230	0.77%	0.150%
343	15.928	15.911	15.939	VV	307	4016	0.30%	0.059%
344	15.966	15.939	16.001	VV	2758	46640	3.49%	0.684%
345	16.020	16.001	16.052	VV	671	17289	1.29%	0.253%
346	16.066	16.052	16.096	VV	479	9336	0.70%	0.137%
347	16.126	16.096	16.193	VV	1516	33835	2.53%	0.496%
348	16.243	16.193	16.291	VV	5792	89576	6.70%	1.313%
349	16.314	16.291	16.348	VV	428	6242	0.47%	0.091%
350	16.380	16.348	16.404	VV	386	6470	0.48%	0.095%
351	16.420	16.404	16.433	VV	159	1830	0.14%	0.027%

rteres

352	16.468	16.433	16.515	VV	665	11187	0.84%	0.164%
353	16.551	16.515	16.577	PV	311	7151	0.53%	0.105%
354	16.619	16.577	16.671	VV	10979	187920	14.06%	2.754%
355	16.679	16.671	16.697	VV	823	11762	0.88%	0.172%
356	16.726	16.697	16.768	VV	6752	100619	7.53%	1.475%
357	16.811	16.768	16.866	VV	605	17776	1.33%	0.261%
358	16.888	16.866	16.901	VV	175	2244	0.17%	0.033%
359	16.946	16.901	16.984	VV	2659	46685	3.49%	0.684%
360	17.022	16.984	17.044	VV	838	23595	1.76%	0.346%
361	17.083	17.044	17.131	VV	1165	37548	2.81%	0.550%
362	17.193	17.131	17.226	VV	5543	89613	6.70%	1.313%
363	17.245	17.226	17.255	VV	466	5420	0.41%	0.079%
364	17.278	17.255	17.327	VV	1602	25746	1.93%	0.377%
365	17.415	17.327	17.441	PV	403	5637	0.42%	0.083%
366	17.480	17.441	17.501	VBA	425	10214	0.76%	0.150%
			Sum of corrected areas:			6822684		

FF052125.M Thu May 22 00:05:38 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG052125\
Data File : FG015867.D
Signal(s) : FID1A.ch
Acq On : 21 May 2025 11:18
Operator : YP\AJ
Sample : PB168084BL
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
PB168084BL

Integration File: autoint1.e
Quant Time: May 22 00:38:33 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG042425.M
Quant Title :
QLast Update : Thu Apr 24 12:54:09 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...	14.985	2121640	18.020 ug/ml
Target Compounds			

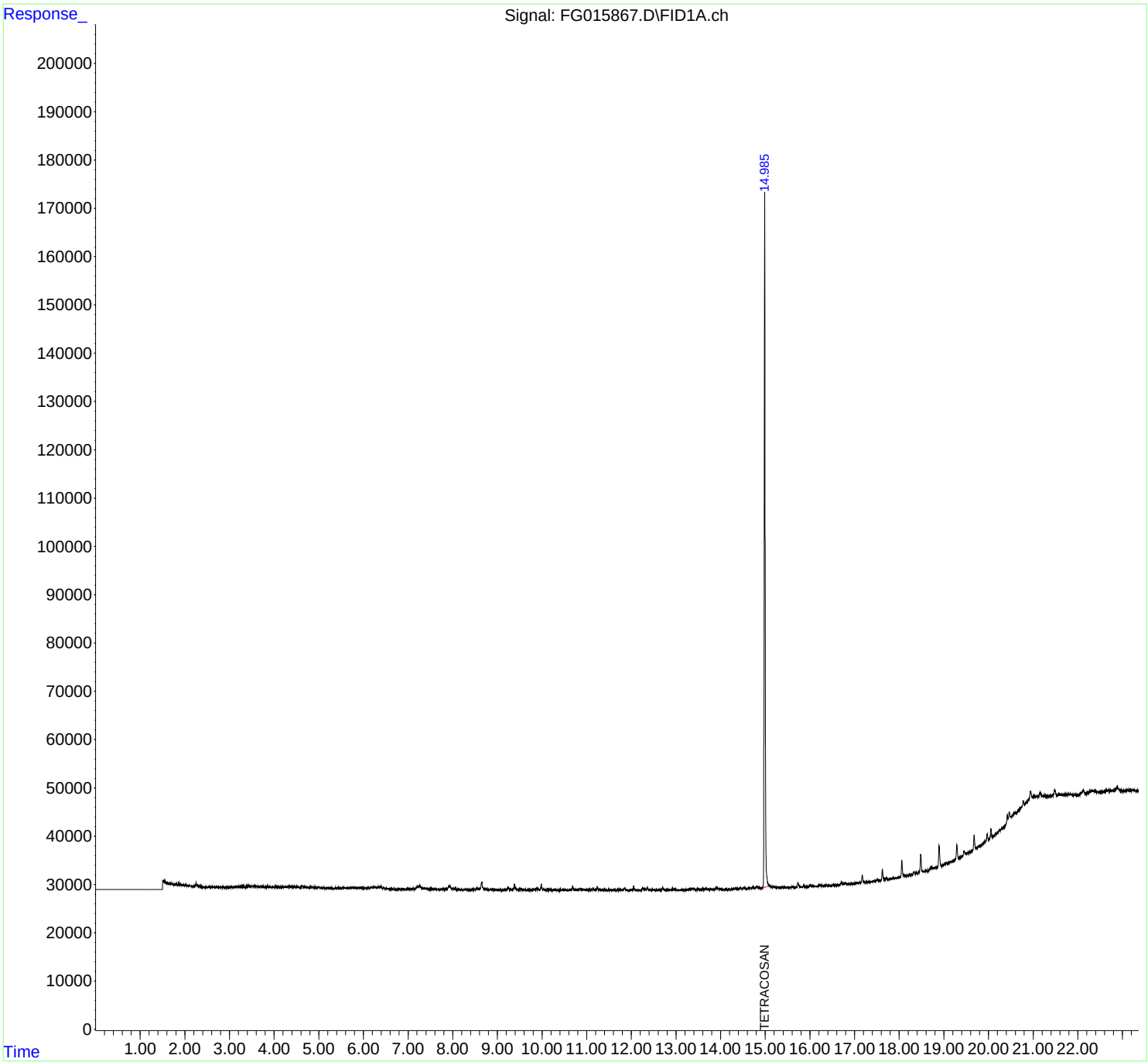
(f)=RT Delta > 1/2 Window (m)=manual int.

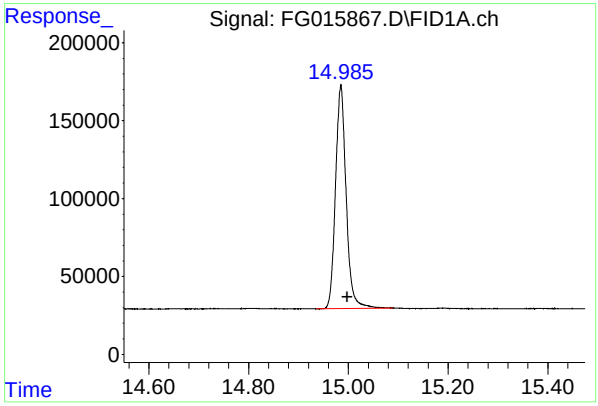
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG052125\
Data File : FG015867.D
Signal(s) : FID1A.ch
Acq On : 21 May 2025 11:18
Operator : YP\AJ
Sample : PB168084BL
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
PB168084BL

Integration File: autoint1.e
Quant Time: May 22 00:38:33 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG042425.M
Quant Title :
QLast Update : Thu Apr 24 12:54:09 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.: 14.985 min
Delta R.T.: -0.013 mir
Response: 2121640
Conc: 18.02 ug/m

Instrument :
FID_G
ClientSampleId :
PB168084BL

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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\FG052125\
Data File : FG015867.D
Signal(s) : FID1A.ch
Acq On : 21 May 2025 11:18
Sample : PB168084BL
Misc :
ALS Vial : 21 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG042425.M
Title :

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	14.985	14.935	15.090	BB	144033	2121640	100.00%	100.000%
			Sum of corrected areas:			2121640		

FG042425.M Thu May 22 01:18:05 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG052125\
Data File : FG015868.D
Signal(s) : FID1A.ch
Acq On : 21 May 2025 11:47
Operator : YP\AJ
Sample : PB168084BS
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
PB168084BS

Integration File: autoint1.e
Quant Time: May 22 00:38:50 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG042425.M
Quant Title :
QLast Update : Thu Apr 24 12:54:09 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...	14.984	2424797	20.595 ug/ml
	Target Compounds			
2)	N-DECANE	4.488	2013773	18.088 ug/ml
3)	N-DODECANE	6.670	2178191	19.007 ug/ml
4)	N-TETRADECANE	8.505	2272446	18.754 ug/ml
5)	N-HEXADECANE	10.119	2441706	19.449 ug/ml
6)	N-OCTADECANE	11.566	2624828	20.029 ug/ml
7)	N-EICOSANE	12.880	2645165	19.510 ug/ml
8)	N-DOCOSANE	14.081	2662725	20.076 ug/ml
10)	N-TETRACOSANE	15.188	2692207	20.259 ug/ml
11)	N-HEXACOSANE	16.213	2671169	20.141 ug/ml
12)	N-OCTACOSANE	17.164	2682870	20.350 ug/ml

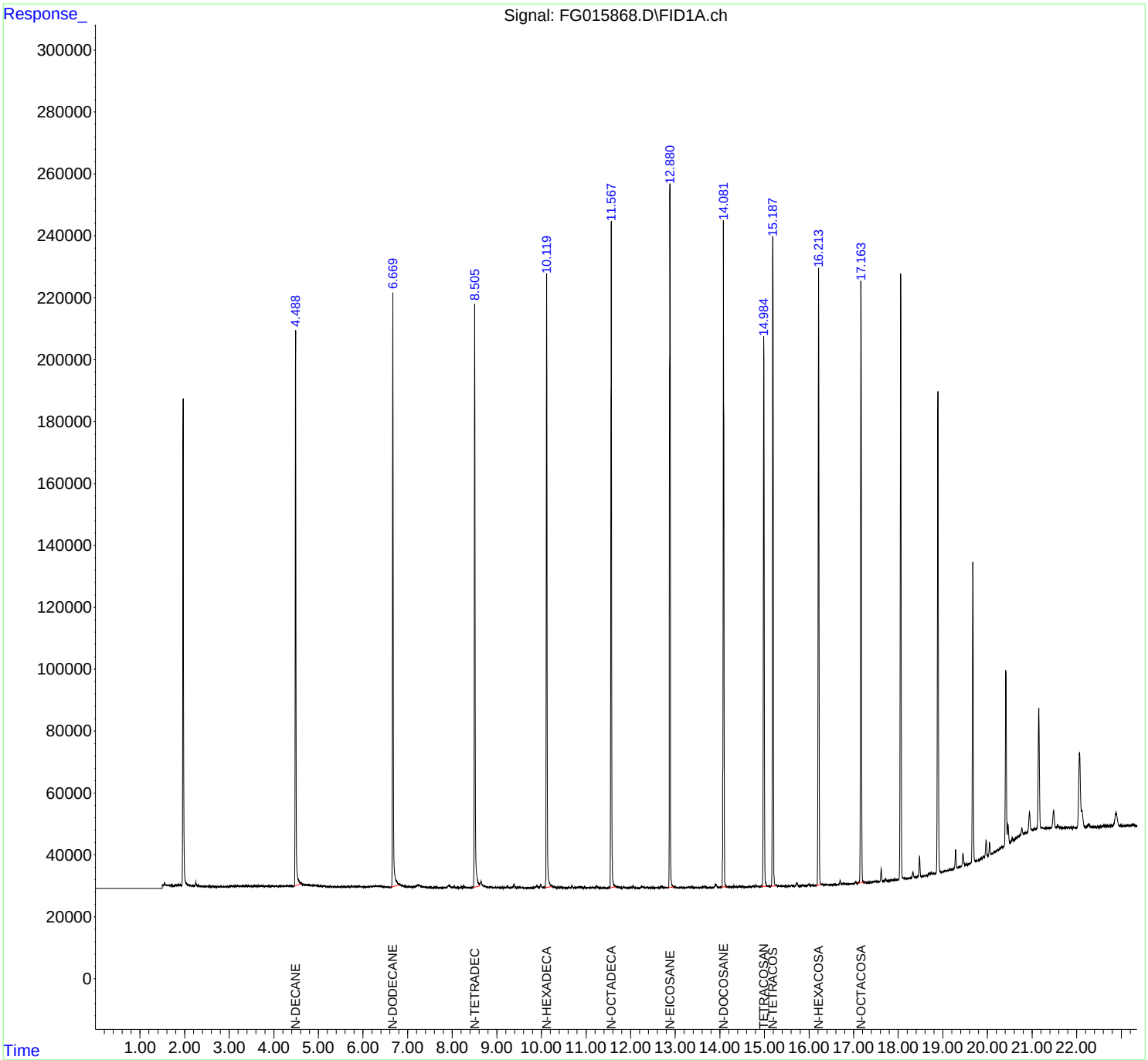
(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG052125\
Data File : FG015868.D
Signal(s) : FID1A.ch
Acq On : 21 May 2025 11:47
Operator : YP\AJ
Sample : PB168084BS
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
PB168084BS

Integration File: autoint1.e
Quant Time: May 22 00:38:50 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG042425.M
Quant Title :
QLast Update : Thu Apr 24 12:54:09 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\FG052125\
Data File : FG015868.D
Signal(s) : FID1A.ch
Acq On : 21 May 2025 11:47
Sample : PB168084BS
Misc :
ALS Vial : 22 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG042425.M
Title :

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.488	4.449	4.611	BB	179467	2013773	74.80%	7.374%
2	6.670	6.631	6.810	BB	191816	2178191	80.91%	7.976%
3	8.505	8.464	8.610	BV	187908	2272446	84.41%	8.321%
4	10.119	10.071	10.241	BB	197468	2441706	90.70%	8.941%
5	11.566	11.530	11.669	BB	214628	2624828	97.50%	9.611%
6	12.880	12.831	12.965	BB	226577	2645165	98.25%	9.686%
7	14.081	14.033	14.163	BB	214865	2662725	98.90%	9.750%
8	14.984	14.932	15.059	BB	177669	2424797	90.07%	8.879%
9	15.188	15.134	15.261	BB	209450	2692207	100.00%	9.858%
10	16.213	16.155	16.280	BB	198880	2671169	99.22%	9.781%
11	17.164	17.090	17.245	BB	193039	2682870	99.65%	9.824%
			Sum of corrected areas:			27309875		

FG042425.M Thu May 22 01:19:47 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG052125\
Data File : FG015873.D
Signal(s) : FID1A.ch
Acq On : 21 May 2025 14:13
Operator : YP\AJ
Sample : Q2032-05MS
Misc :
ALS Vial : 27 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
TP-24MS

Integration File: autoint1.e
Quant Time: May 22 00:40:21 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG042425.M
Quant Title :
QLast Update : Thu Apr 24 12:54:09 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	1557133	13.226 ug/ml
	Target Compounds			
2)	N-DECANE	4.488	2506544	22.514 ug/ml
3)	N-DODECANE	6.670	2723792	23.767 ug/ml
4)	N-TETRADECANE	8.505	2808470	23.177 ug/ml
5)	N-HEXADECANE	10.119	2951548	23.510 ug/ml
6)	N-OCTADECANE	11.566	3171510	24.200 ug/ml
7)	N-EICOSANE	12.881	3168001	23.367 ug/ml
8)	N-DOCOSANE	14.082	3114625	23.484 ug/ml
10)	N-TETRACOSANE	15.188	3146354	23.677 ug/ml
11)	N-HEXACOSANE	16.211	3148999	23.744 ug/ml
12)	N-OCTACOSANE	17.164	3070005	23.287 ug/ml

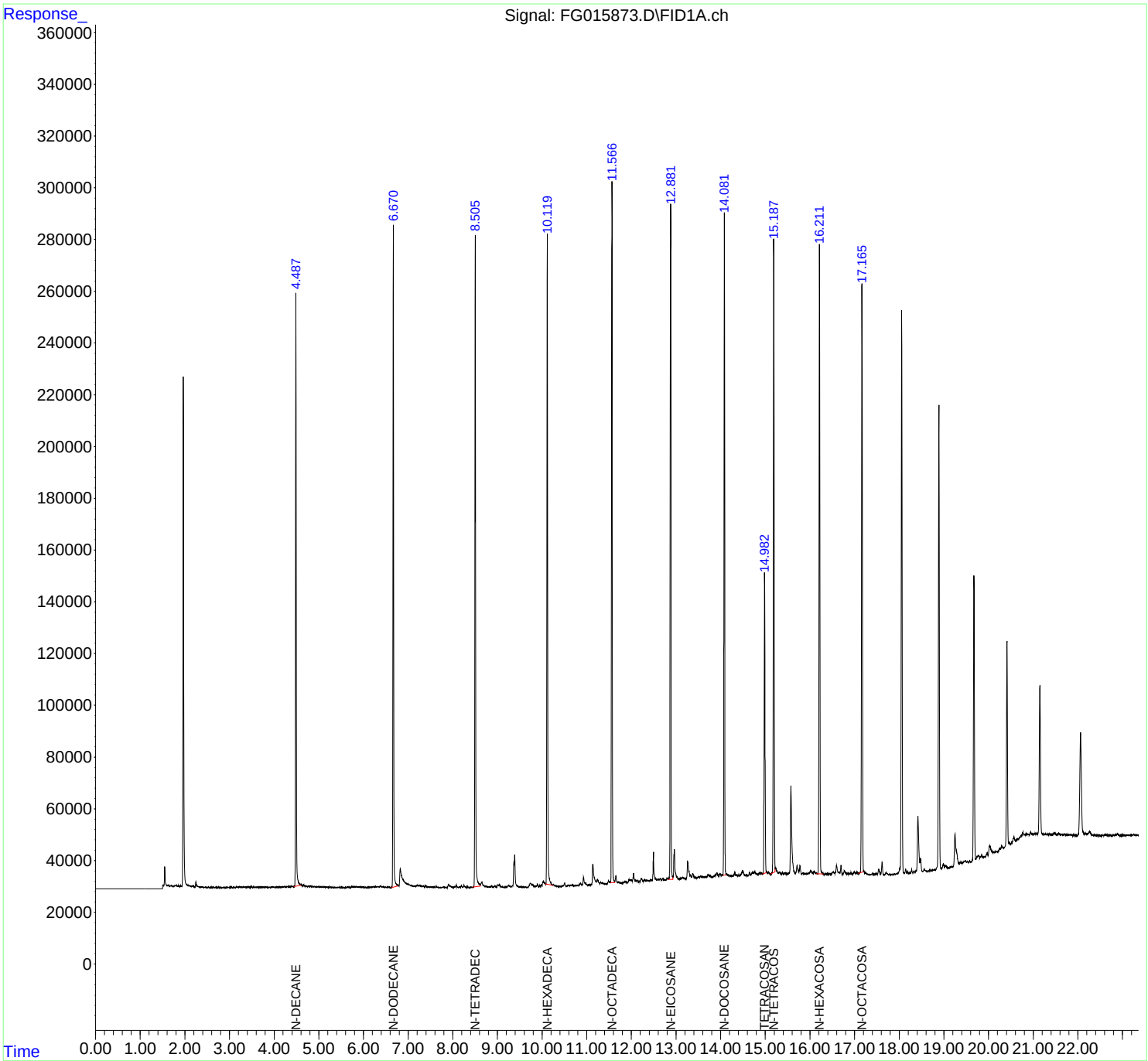
(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG052125\
Data File : FG015873.D
Signal(s) : FID1A.ch
Acq On : 21 May 2025 14:13
Operator : YP\AJ
Sample : Q2032-05MS
Misc :
ALS Vial : 27 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
TP-24MS

Integration File: autoint1.e
Quant Time: May 22 00:40:21 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG042425.M
Quant Title :
QLast Update : Thu Apr 24 12:54:09 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\FG052125\
Data File : FG015873.D
Signal(s) : FID1A.ch
Acq On : 21 May 2025 14:13
Sample : Q2032-05MS
Misc :
ALS Vial : 27 Sample Multiplier: 1

Integration File: Sample.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG042425.M
Title :

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.313	4.300	4.318	BV	122	593	0.02%	0.001%
2	4.322	4.318	4.342	VV	115	903	0.03%	0.002%
3	4.355	4.342	4.365	PV	161	1166	0.04%	0.003%
4	4.375	4.365	4.405	PV	205	2646	0.08%	0.007%
5	4.409	4.405	4.413	VV	139	564	0.02%	0.001%
6	4.417	4.413	4.420	VV	144	485	0.01%	0.001%
7	4.434	4.420	4.444	VV	207	1874	0.06%	0.005%
8	4.452	4.444	4.456	VV	184	1053	0.03%	0.003%
9	4.488	4.456	4.602	VV	229410	2548567	77.85%	6.265%
10	4.612	4.602	4.645	VV	954	18652	0.57%	0.046%
11	4.664	4.645	4.749	VV	917	31503	0.96%	0.077%
12	4.776	4.749	4.793	VV	444	8559	0.26%	0.021%
13	4.802	4.793	4.815	VV	391	3876	0.12%	0.010%
14	4.822	4.815	4.839	VV	353	3995	0.12%	0.010%
15	4.846	4.839	4.851	VV	271	1757	0.05%	0.004%
16	4.858	4.851	4.866	VV	277	2255	0.07%	0.006%
17	4.873	4.866	4.884	VV	271	2434	0.07%	0.006%
18	4.891	4.884	4.895	VV	280	1592	0.05%	0.004%
19	4.906	4.895	4.920	VV	256	3563	0.11%	0.009%
20	4.923	4.920	4.930	VV	282	1430	0.04%	0.004%
21	4.939	4.930	4.949	VV	299	2783	0.09%	0.007%
22	4.954	4.949	4.963	VV	230	1785	0.05%	0.004%
23	4.965	4.963	4.973	VV	277	1503	0.05%	0.004%
24	4.977	4.973	4.990	VV	285	2129	0.07%	0.005%
25	4.999	4.990	5.046	VV	295	6130	0.19%	0.015%
26	5.053	5.046	5.058	VV	179	1003	0.03%	0.002%
27	5.074	5.058	5.093	VV	189	3251	0.10%	0.008%
28	5.096	5.093	5.102	VV	188	692	0.02%	0.002%
29	5.110	5.102	5.126	VV	182	1803	0.06%	0.004%
30	5.131	5.126	5.139	VV	155	1029	0.03%	0.003%
31	5.155	5.139	5.164	VV	219	2395	0.07%	0.006%
32	5.170	5.164	5.201	VV	217	3337	0.10%	0.008%
33	5.205	5.201	5.220	VV	158	1189	0.04%	0.003%
34	5.222	5.220	5.227	VV	104	329	0.01%	0.001%
35	5.230	5.227	5.237	VV	114	425	0.01%	0.001%
36	5.242	5.237	5.259	PV	165	1250	0.04%	0.003%

rteres

37	5.265	5.259	5.284	VV	157	1124	0.03%	0.003%
38	5.287	5.284	5.293	VV	84	350	0.01%	0.001%
39	5.303	5.293	5.316	PV	123	1091	0.03%	0.003%
40	5.320	5.316	5.331	VV	143	664	0.02%	0.002%
41	5.335	5.331	5.341	VV	97	442	0.01%	0.001%
42	5.344	5.341	5.353	VV	116	581	0.02%	0.001%
43	5.355	5.353	5.367	VV	94	549	0.02%	0.001%
44	5.371	5.367	5.399	VV	125	1486	0.05%	0.004%
45	5.407	5.399	5.429	VV	127	1288	0.04%	0.003%
46	5.440	5.429	5.445	VV	140	774	0.02%	0.002%
47	5.454	5.445	5.459	VV	167	870	0.03%	0.002%
48	5.464	5.459	5.492	VV	210	2668	0.08%	0.007%
49	5.495	5.492	5.515	VV	113	1261	0.04%	0.003%
50	5.517	5.515	5.521	VV	167	347	0.01%	0.001%
51	5.526	5.521	5.531	VV	117	506	0.02%	0.001%
52	5.533	5.531	5.545	VV	169	864	0.03%	0.002%
53	5.552	5.545	5.560	VV	109	541	0.02%	0.001%
54	5.563	5.560	5.571	VV	99	416	0.01%	0.001%
55	5.577	5.571	5.593	VV	87	1004	0.03%	0.002%
56	5.601	5.593	5.613	PV	154	998	0.03%	0.002%
57	5.620	5.613	5.625	VV	84	503	0.02%	0.001%
58	5.638	5.625	5.658	VV	390	4997	0.15%	0.012%
59	5.663	5.658	5.679	VV	240	1860	0.06%	0.005%
60	5.691	5.679	5.708	VV	167	1984	0.06%	0.005%
61	5.735	5.708	5.750	VV	399	6388	0.20%	0.016%
62	5.785	5.750	5.801	VV	450	10705	0.33%	0.026%
63	5.806	5.801	5.829	VV	456	7038	0.21%	0.017%
64	5.835	5.829	5.859	VV	447	6429	0.20%	0.016%
65	5.866	5.859	5.871	VV	353	2173	0.07%	0.005%
66	5.880	5.871	5.889	VV	338	3564	0.11%	0.009%
67	5.896	5.889	5.924	VV	377	6518	0.20%	0.016%
68	5.928	5.924	5.933	VV	327	1645	0.05%	0.004%
69	5.944	5.933	5.981	VV	412	7509	0.23%	0.018%
70	5.986	5.981	5.994	VV	273	1613	0.05%	0.004%
71	5.998	5.994	6.006	VV	206	1426	0.04%	0.004%
72	6.007	6.006	6.025	VV	249	1948	0.06%	0.005%
73	6.035	6.025	6.058	VV	247	3317	0.10%	0.008%
74	6.063	6.058	6.087	VV	203	2209	0.07%	0.005%
75	6.100	6.087	6.113	VV	235	2537	0.08%	0.006%
76	6.116	6.113	6.148	VV	289	3424	0.10%	0.008%
77	6.173	6.148	6.184	VV	265	4323	0.13%	0.011%
78	6.214	6.184	6.220	VV	413	6307	0.19%	0.016%
79	6.227	6.220	6.236	VV	336	2979	0.09%	0.007%
80	6.249	6.236	6.253	VV	396	3614	0.11%	0.009%
81	6.271	6.253	6.285	VV	460	7493	0.23%	0.018%
82	6.294	6.285	6.299	VV	389	2725	0.08%	0.007%
83	6.313	6.299	6.322	VV	449	5201	0.16%	0.013%
84	6.328	6.322	6.344	VV	433	4777	0.15%	0.012%
85	6.385	6.344	6.430	VV	683	20825	0.64%	0.051%
86	6.442	6.430	6.447	VV	336	3007	0.09%	0.007%
87	6.450	6.447	6.464	VV	348	2812	0.09%	0.007%
88	6.468	6.464	6.478	VV	276	1995	0.06%	0.005%
89	6.491	6.478	6.519	VV	263	4840	0.15%	0.012%

rteres

90	6.539	6.519	6.545	VV	307	3145	0.10%	0.008%
91	6.549	6.545	6.580	VV	294	4641	0.14%	0.011%
92	6.584	6.580	6.605	VV	176	1658	0.05%	0.004%
93	6.608	6.605	6.613	VV	156	504	0.02%	0.001%
94	6.632	6.613	6.636	VV	195	1412	0.04%	0.003%
95	6.670	6.636	6.783	VV	256072	2762179	84.38%	6.790%
96	6.793	6.783	6.796	VV	773	5842	0.18%	0.014%
97	6.826	6.796	6.949	VV	7417	328876	10.05%	0.808%
98	6.953	6.949	6.979	VV	1733	28428	0.87%	0.070%
99	6.986	6.979	7.028	VV	1487	37387	1.14%	0.092%
100	7.034	7.028	7.054	VV	1114	15176	0.46%	0.037%
101	7.057	7.054	7.113	VV	913	25767	0.79%	0.063%
102	7.118	7.113	7.126	VV	650	4985	0.15%	0.012%
103	7.131	7.126	7.155	VV	652	10508	0.32%	0.026%
104	7.201	7.155	7.228	VV	920	34269	1.05%	0.084%
105	7.242	7.228	7.283	VV	981	27419	0.84%	0.067%
106	7.288	7.283	7.334	VV	836	19510	0.60%	0.048%
107	7.354	7.334	7.374	VV	629	11693	0.36%	0.029%
108	7.393	7.374	7.438	VV	915	19447	0.59%	0.048%
109	7.442	7.438	7.446	VV	340	1634	0.05%	0.004%
110	7.453	7.446	7.463	VV	326	2973	0.09%	0.007%
111	7.465	7.463	7.480	VV	292	2549	0.08%	0.006%
112	7.490	7.480	7.546	VV	276	8462	0.26%	0.021%
113	7.566	7.546	7.610	VV	270	6624	0.20%	0.016%
114	7.626	7.610	7.698	VV	555	11395	0.35%	0.028%
115	7.708	7.698	7.722	VV	177	1183	0.04%	0.003%
116	7.746	7.722	7.763	VV	164	2149	0.07%	0.005%
117	7.766	7.763	7.771	VV	97	395	0.01%	0.001%
118	7.798	7.771	7.823	VV	282	4605	0.14%	0.011%
119	7.826	7.823	7.831	VV	121	345	0.01%	0.001%
120	7.848	7.831	7.855	VV	136	1014	0.03%	0.002%
121	7.904	7.855	7.938	PV	1363	28624	0.87%	0.070%
122	7.941	7.938	7.953	VV	671	5029	0.15%	0.012%
123	7.956	7.953	7.993	VV	512	7823	0.24%	0.019%
124	7.995	7.993	8.022	VV	248	3107	0.09%	0.008%
125	8.051	8.022	8.059	VV	469	6681	0.20%	0.016%
126	8.078	8.059	8.103	VV	1148	15290	0.47%	0.038%
127	8.112	8.103	8.136	VV	279	3407	0.10%	0.008%
128	8.149	8.136	8.175	VV	341	5050	0.15%	0.012%
129	8.197	8.175	8.222	VV	1006	12257	0.37%	0.030%
130	8.253	8.222	8.306	VV	1031	19452	0.59%	0.048%
131	8.322	8.306	8.354	PV	734	9077	0.28%	0.022%
132	8.362	8.354	8.381	VV	163	1825	0.06%	0.004%
133	8.413	8.381	8.428	VV	418	5290	0.16%	0.013%
134	8.505	8.428	8.623	VV	250719	2856771	87.27%	7.023%
135	8.654	8.623	8.742	VV	2090	75273	2.30%	0.185%
136	8.745	8.742	8.783	VV	511	8844	0.27%	0.022%
137	8.786	8.783	8.807	VV	302	3576	0.11%	0.009%
138	8.818	8.807	8.850	VV	301	6728	0.21%	0.017%
139	8.866	8.850	8.912	VV	544	11131	0.34%	0.027%
140	8.937	8.912	8.947	VV	565	7754	0.24%	0.019%
141	8.956	8.947	8.976	VV	549	6412	0.20%	0.016%

rteres

142	9.005	8.976	9.031	VV	1034	23362	0.71%	0.057%
143	9.045	9.031	9.075	VV	1352	21180	0.65%	0.052%
144	9.078	9.075	9.085	VV	303	1627	0.05%	0.004%
145	9.097	9.085	9.106	VV	365	3335	0.10%	0.008%
146	9.111	9.106	9.142	VV	356	3268	0.10%	0.008%
147	9.148	9.142	9.152	VV	141	558	0.02%	0.001%
148	9.163	9.152	9.183	VV	255	2696	0.08%	0.007%
149	9.195	9.183	9.214	VV	181	1888	0.06%	0.005%
150	9.245	9.214	9.253	VV	799	11100	0.34%	0.027%
151	9.256	9.253	9.306	VV	713	16012	0.49%	0.039%
152	9.309	9.306	9.316	VV	356	1919	0.06%	0.005%
153	9.338	9.316	9.349	VV	809	11074	0.34%	0.027%
154	9.372	9.349	9.378	VV	9923	96592	2.95%	0.237%
155	9.389	9.378	9.511	VV	12678	193430	5.91%	0.476%
156	9.520	9.511	9.553	VV	371	6086	0.19%	0.015%
157	9.572	9.553	9.582	VV	240	2922	0.09%	0.007%
158	9.584	9.582	9.607	VV	196	1297	0.04%	0.003%
159	9.634	9.607	9.656	PV	201	3011	0.09%	0.007%
160	9.661	9.656	9.668	VV	76	217	0.01%	0.001%
161	9.677	9.668	9.687	VV	71	313	0.01%	0.001%
162	9.738	9.687	9.777	VV	1613	52486	1.60%	0.129%
163	9.782	9.777	9.833	VV	980	21458	0.66%	0.053%
164	9.849	9.833	9.854	VV	452	4570	0.14%	0.011%
165	9.871	9.854	9.877	VV	545	6387	0.20%	0.016%
166	9.896	9.877	9.928	VV	1306	19356	0.59%	0.048%
167	9.950	9.928	9.968	VV	699	9210	0.28%	0.023%
168	9.985	9.968	10.000	VV	939	12599	0.38%	0.031%
169	10.024	10.000	10.087	VV	2197	78101	2.39%	0.192%
170	10.119	10.087	10.252	VV	252279	3043553	92.97%	7.482%
171	10.260	10.252	10.319	VV	767	19368	0.59%	0.048%
172	10.323	10.319	10.347	VV	247	3101	0.09%	0.008%
173	10.351	10.347	10.357	VV	140	842	0.03%	0.002%
174	10.363	10.357	10.377	VV	155	1282	0.04%	0.003%
175	10.380	10.377	10.385	VV	140	633	0.02%	0.002%
176	10.390	10.385	10.416	VV	179	1686	0.05%	0.004%
177	10.466	10.416	10.482	PV	474	10333	0.32%	0.025%
178	10.506	10.482	10.538	VV	1444	24367	0.74%	0.060%
179	10.544	10.538	10.548	VV	217	1120	0.03%	0.003%
180	10.584	10.548	10.590	VV	548	9377	0.29%	0.023%
181	10.595	10.590	10.621	VV	520	7273	0.22%	0.018%
182	10.656	10.621	10.662	VV	352	7274	0.22%	0.018%
183	10.680	10.662	10.712	VV	813	12746	0.39%	0.031%
184	10.717	10.712	10.723	VV	270	1394	0.04%	0.003%
185	10.741	10.723	10.752	VV	379	4631	0.14%	0.011%
186	10.754	10.752	10.768	VV	325	2601	0.08%	0.006%
187	10.787	10.768	10.809	VV	395	7104	0.22%	0.017%
188	10.862	10.809	10.904	VV	1222	36122	1.10%	0.089%
189	10.931	10.904	11.029	VV	3489	85299	2.61%	0.210%
190	11.084	11.029	11.095	VV	390	10094	0.31%	0.025%
191	11.104	11.095	11.109	VV	372	2705	0.08%	0.007%
192	11.137	11.109	11.217	VV	8198	219539	6.71%	0.540%
193	11.238	11.217	11.295	VV	2265	70579	2.16%	0.174%
194	11.313	11.295	11.334	VV	1162	21888	0.67%	0.054%

rteres

195	11.338	11.334	11.358	VV	800	10328	0.32%	0.025%
196	11.367	11.358	11.408	VV	850	18659	0.57%	0.046%
197	11.414	11.408	11.419	VV	445	2921	0.09%	0.007%
198	11.427	11.419	11.444	VV	559	6760	0.21%	0.017%
199	11.493	11.444	11.520	VV	1535	44641	1.36%	0.110%
200	11.566	11.520	11.628	VV	271368	3226423	98.56%	7.932%
201	11.655	11.628	11.689	VV	3545	70486	2.15%	0.173%
202	11.705	11.689	11.746	VV	1054	28786	0.88%	0.071%
203	11.761	11.746	11.787	VV	748	13415	0.41%	0.033%
204	11.828	11.787	11.833	VV	780	17037	0.52%	0.042%
205	11.862	11.833	11.913	VV	1116	40562	1.24%	0.100%
206	11.953	11.913	11.976	VV	1859	48138	1.47%	0.118%
207	11.992	11.976	12.023	VV	1661	41257	1.26%	0.101%
208	12.050	12.023	12.082	VV	4241	81365	2.49%	0.200%
209	12.086	12.082	12.108	VV	1362	19432	0.59%	0.048%
210	12.125	12.108	12.161	VV	1453	34951	1.07%	0.086%
211	12.174	12.161	12.190	VV	855	13528	0.41%	0.033%
212	12.220	12.190	12.266	VV	2022	65050	1.99%	0.160%
213	12.294	12.266	12.319	VV	1712	40366	1.23%	0.099%
214	12.337	12.319	12.352	VV	1368	23283	0.71%	0.057%
215	12.361	12.352	12.387	VV	1267	23316	0.71%	0.057%
216	12.392	12.387	12.414	VV	1054	15064	0.46%	0.037%
217	12.437	12.414	12.448	VV	1397	25152	0.77%	0.062%
218	12.453	12.448	12.473	VV	1393	17421	0.53%	0.043%
219	12.495	12.473	12.575	VV	12085	209434	6.40%	0.515%
220	12.597	12.575	12.613	VV	1523	31555	0.96%	0.078%
221	12.617	12.613	12.628	VV	1412	12319	0.38%	0.030%
222	12.648	12.628	12.675	VV	1677	38320	1.17%	0.094%
223	12.702	12.675	12.726	VV	1818	42520	1.30%	0.105%
224	12.739	12.726	12.755	VV	1272	21031	0.64%	0.052%
225	12.760	12.755	12.778	VV	1144	15657	0.48%	0.038%
226	12.803	12.778	12.823	VV	1826	39238	1.20%	0.096%
227	12.881	12.823	12.928	VV	261671	3244599	99.11%	7.976%
228	12.960	12.928	13.048	VV	12768	316554	9.67%	0.778%
229	13.052	13.048	13.087	VV	1375	29619	0.90%	0.073%
230	13.098	13.087	13.113	VV	1359	20046	0.61%	0.049%
231	13.137	13.113	13.141	VV	1673	24880	0.76%	0.061%
232	13.153	13.141	13.186	VV	1813	41897	1.28%	0.103%
233	13.202	13.186	13.222	VV	1408	27643	0.84%	0.068%
234	13.259	13.222	13.320	VV	8162	233938	7.15%	0.575%
235	13.328	13.320	13.353	VV	2600	41535	1.27%	0.102%
236	13.376	13.353	13.413	VV	3118	83797	2.56%	0.206%
237	13.418	13.413	13.427	VV	1753	13384	0.41%	0.033%
238	13.430	13.427	13.448	VV	1692	19742	0.60%	0.049%
239	13.453	13.448	13.478	VV	1567	24848	0.76%	0.061%
240	13.494	13.478	13.515	VV	1979	36458	1.11%	0.090%
241	13.555	13.515	13.560	VV	1935	47482	1.45%	0.117%
242	13.563	13.560	13.583	VV	1930	23919	0.73%	0.059%
243	13.597	13.583	13.614	VV	1751	31421	0.96%	0.077%
244	13.626	13.614	13.645	VV	1639	27825	0.85%	0.068%
245	13.657	13.645	13.684	VV	1823	37628	1.15%	0.093%
246	13.717	13.684	13.756	VV	2612	89153	2.72%	0.219%

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247	13.766	13.756	13.794	VV	2075	41192	1.26%	0.101%
248	13.806	13.794	13.828	VV	1665	29776	0.91%	0.073%
249	13.847	13.828	13.860	VV	1866	32101	0.98%	0.079%
250	13.880	13.860	13.895	VV	2439	45168	1.38%	0.111%
251	13.915	13.895	13.958	VV	3035	90318	2.76%	0.222%
252	13.987	13.958	14.017	VV	2676	78715	2.40%	0.194%
253	14.037	14.017	14.048	VV	2478	41076	1.25%	0.101%
254	14.082	14.048	14.125	VV	257937	3209511	98.04%	7.890%
255	14.136	14.125	14.156	VV	2549	42662	1.30%	0.105%
256	14.166	14.156	14.198	VV	2141	47318	1.45%	0.116%
257	14.202	14.198	14.209	VV	1839	12074	0.37%	0.030%
258	14.225	14.209	14.252	VV	1821	43377	1.33%	0.107%
259	14.262	14.252	14.269	VV	1661	15798	0.48%	0.039%
260	14.275	14.269	14.281	VV	1619	11260	0.34%	0.028%
261	14.315	14.281	14.343	VV	2850	81238	2.48%	0.200%
262	14.346	14.343	14.352	VV	1846	10174	0.31%	0.025%
263	14.356	14.352	14.365	VV	1888	14274	0.44%	0.035%
264	14.373	14.365	14.385	VV	1893	22144	0.68%	0.054%
265	14.390	14.385	14.420	VV	1814	34730	1.06%	0.085%
266	14.444	14.420	14.450	VV	2124	32995	1.01%	0.081%
267	14.489	14.450	14.543	VV	3515	141448	4.32%	0.348%
268	14.548	14.543	14.555	VV	1795	12015	0.37%	0.030%
269	14.562	14.555	14.573	VV	1828	18260	0.56%	0.045%
270	14.578	14.573	14.612	VV	1846	39093	1.19%	0.096%
271	14.646	14.612	14.667	VV	2793	65759	2.01%	0.162%
272	14.709	14.667	14.723	VV	2641	74173	2.27%	0.182%
273	14.727	14.723	14.732	VV	2447	11929	0.36%	0.029%
274	14.738	14.732	14.742	VV	2465	15086	0.46%	0.037%
275	14.766	14.742	14.825	VV	2816	113800	3.48%	0.280%
276	14.852	14.825	14.869	VV	2281	52702	1.61%	0.130%
277	14.889	14.869	14.911	VV	2425	56115	1.71%	0.138%
278	14.916	14.911	14.924	VV	2158	16722	0.51%	0.041%
279	14.930	14.924	14.946	VV	2134	25454	0.78%	0.063%
280	14.983	14.946	15.035	VV	117112	1674910	51.16%	4.118%
281	15.038	15.035	15.056	VV	2605	30420	0.93%	0.075%
282	15.070	15.056	15.101	VV	2596	61203	1.87%	0.150%
283	15.106	15.101	15.126	VV	1925	24904	0.76%	0.061%
284	15.188	15.126	15.221	VV	245890	3273648	100.00%	8.048%
285	15.232	15.221	15.283	VV	3935	115927	3.54%	0.285%
286	15.289	15.283	15.296	VV	2086	15145	0.46%	0.037%
287	15.316	15.296	15.355	VV	2430	74367	2.27%	0.183%
288	15.387	15.355	15.407	VV	1983	54185	1.66%	0.133%
289	15.427	15.407	15.431	VV	1845	24108	0.74%	0.059%
290	15.435	15.431	15.443	VV	1896	12562	0.38%	0.031%
291	15.449	15.443	15.471	VV	1907	29134	0.89%	0.072%
292	15.473	15.471	15.491	VV	1702	18383	0.56%	0.045%
293	15.495	15.491	15.500	VV	1593	8033	0.25%	0.020%
294	15.529	15.500	15.540	VV	1840	40858	1.25%	0.100%
295	15.571	15.540	15.681	VV	35661	825351	25.21%	2.029%
296	15.709	15.681	15.749	VV	4632	129797	3.96%	0.319%
297	15.775	15.749	15.821	VV	4501	114144	3.49%	0.281%
298	15.837	15.821	15.868	VV	1642	42485	1.30%	0.104%
299	15.872	15.868	15.877	VV	1470	6701	0.20%	0.016%

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300	15.893	15.877	15.906	VV	1470	23893	0.73%	0.059%
301	15.925	15.906	15.943	VV	1469	29996	0.92%	0.074%
302	15.949	15.943	15.953	VV	1334	7549	0.23%	0.019%
303	15.969	15.953	15.973	VV	1696	16781	0.51%	0.041%
304	15.981	15.973	15.988	VV	1522	13140	0.40%	0.032%
305	16.026	15.988	16.062	VV	2394	83966	2.56%	0.206%
306	16.096	16.062	16.127	VV	2137	67066	2.05%	0.165%
307	16.132	16.127	16.153	VV	1390	20385	0.62%	0.050%
308	16.211	16.153	16.295	VV	243482	3241148	99.01%	7.968%
309	16.298	16.295	16.326	VV	1126	17856	0.55%	0.044%
310	16.348	16.326	16.369	VV	1015	22078	0.67%	0.054%
311	16.394	16.369	16.398	VV	1267	16975	0.52%	0.042%
312	16.402	16.398	16.428	VV	1160	16800	0.51%	0.041%
313	16.442	16.428	16.473	VV	991	22381	0.68%	0.055%
314	16.509	16.473	16.560	VV	1598	64558	1.97%	0.159%
315	16.594	16.560	16.634	VV	4192	104632	3.20%	0.257%
316	16.655	16.634	16.670	VV	1476	28339	0.87%	0.070%
317	16.694	16.670	16.724	VV	4104	65582	2.00%	0.161%
318	16.768	16.724	16.835	VV	1945	72383	2.21%	0.178%
319	16.851	16.835	16.873	VV	932	16728	0.51%	0.041%
320	16.880	16.873	16.886	VV	581	4282	0.13%	0.011%
321	16.923	16.886	16.950	VV	1051	26302	0.80%	0.065%
322	16.988	16.950	17.020	VV	1344	36776	1.12%	0.090%
323	17.024	17.020	17.030	VV	815	4651	0.14%	0.011%
324	17.036	17.030	17.040	VV	939	5263	0.16%	0.013%
325	17.044	17.040	17.059	VV	1022	9812	0.30%	0.024%
326	17.073	17.059	17.095	VV	905	15996	0.49%	0.039%
327	17.099	17.095	17.104	VV	670	3366	0.10%	0.008%
328	17.164	17.104	17.200	VV	226668	3129449	95.60%	7.693%
329	17.208	17.200	17.234	VV	1687	24418	0.75%	0.060%
330	17.241	17.234	17.265	VV	1021	13611	0.42%	0.033%
331	17.269	17.265	17.277	VV	378	2504	0.08%	0.006%
332	17.280	17.277	17.314	VV	338	4429	0.14%	0.011%
333	17.322	17.314	17.327	VV	156	835	0.03%	0.002%
334	17.332	17.327	17.340	VV	120	556	0.02%	0.001%
335	17.349	17.340	17.352	VV	78	369	0.01%	0.001%
336	17.395	17.352	17.400	PBA	166	1667	0.05%	0.004%

Sum of corrected areas: 40677580

FG042425.M Thu May 22 01:26:37 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG052125\
Data File : FG015874.D
Signal(s) : FID1A.ch
Acq On : 21 May 2025 14:43
Operator : YP\AJ
Sample : Q2032-06MSD
Misc :
ALS Vial : 28 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: May 22 00:40:43 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG042425.M
Quant Title :
QLast Update : Thu Apr 24 12:54:09 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal Phase : Rxi-1ms
Signal Info : 20mx0.18mmx0.18um

Instrument :
FID_G
ClientSampleId :
TP-24MSD

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 05/22/2025
Supervised By :mohammad ahmed 05/23/2025

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
9)	S TETRACOSANE-d50 (SURR...	14.984	1582416	13.440	ug/ml
	Target Compounds				
2)	N-DECANE	4.488	2524324	22.674	ug/ml
3)	N-DODECANE	6.670	2750898	24.004	ug/ml
4)	N-TETRADECANE	8.505	2856872	23.577	ug/ml
5)	N-HEXADECANE	10.119	3052461	24.314	ug/ml
6)	N-OCTADECANE	11.566	3242042	24.739	ug/ml
7)	N-EICOSANE	12.880	3237531	23.880	ug/ml
8)	N-DOCOSANE	14.082	3176608	23.951	ug/ml
10)	N-TETRACOSANE	15.188	3217146	24.210	ug/ml
11)	N-HEXACOSANE	16.211	3209178	24.198	ug/ml
12)	N-OCTACOSANE	17.163	3157587	23.951	ug/mlm

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

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG052125\
Data File : FG015874.D
Signal(s) : FID1A.ch
Acq On : 21 May 2025 14:43
Operator : YP\AJ
Sample : Q2032-06MSD
Misc :
ALS Vial : 28 Sample Multiplier: 1

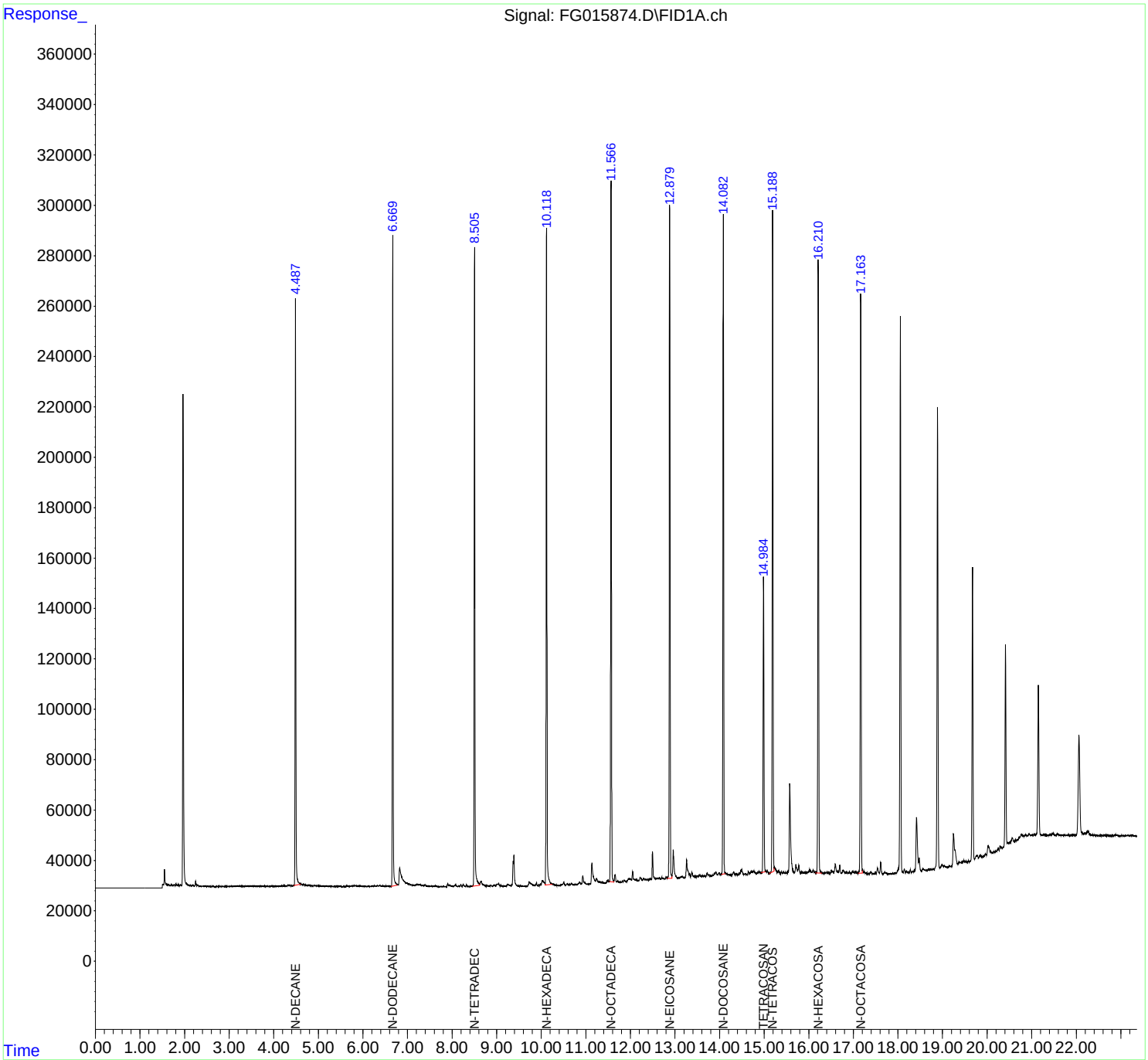
Integration File: autoint1.e
Quant Time: May 22 00:40:43 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG042425.M
Quant Title :
QLast Update : Thu Apr 24 12:54:09 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal Phase : Rxi-1ms
Signal Info : 20mx0.18mmx0.18um

Instrument :
FID_G
ClientSampleId :
TP-24MSD

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 05/22/2025
Supervised By :mohammad ahmed 05/23/2025



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Instrument :
FID_G
ClientSampleId :
TP-24MSD

rteres

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 05/22/2025
Supervised By :mohammad ahmed 05/23/2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG05212
Data File : FG015874.D
Signal(s) : FID1A.ch
Acq On : 21 May 2025 14:43
Sample : Q2032-06MSD
Misc :
ALS Vial : 28 Sample Multiplier: 1

Integration File: Sample.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG042425.M
Title :

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.318	4.300	4.327	BV	262	1058	0.03%	0.003%
2	4.357	4.327	4.372	PV	168	2271	0.07%	0.005%
3	4.377	4.372	4.412	VV	143	2072	0.06%	0.005%
4	4.443	4.412	4.454	VV	187	2835	0.08%	0.007%
5	4.488	4.454	4.603	VV	233146	2562655	76.43%	6.160%
6	4.612	4.603	4.637	VV	930	14336	0.43%	0.034%
7	4.641	4.637	4.651	VV	544	4347	0.13%	0.010%
8	4.667	4.651	4.700	VV	883	18226	0.54%	0.044%
9	4.701	4.700	4.727	VV	497	6292	0.19%	0.015%
10	4.733	4.727	4.760	VV	402	5847	0.17%	0.014%
11	4.774	4.760	4.804	VV	431	8448	0.25%	0.020%
12	4.807	4.804	4.814	VV	338	1659	0.05%	0.004%
13	4.817	4.814	4.826	VV	308	1626	0.05%	0.004%
14	4.830	4.826	4.845	VV	254	2576	0.08%	0.006%
15	4.851	4.845	4.873	VV	291	3555	0.11%	0.009%
16	4.898	4.873	4.906	VV	246	3630	0.11%	0.009%
17	4.910	4.906	4.929	VV	225	2817	0.08%	0.007%
18	4.933	4.929	4.941	VV	249	1511	0.05%	0.004%
19	4.946	4.941	4.966	VV	301	3274	0.10%	0.008%
20	4.971	4.966	4.987	VV	229	2396	0.07%	0.006%
21	4.997	4.987	5.021	VV	239	3639	0.11%	0.009%
22	5.025	5.021	5.036	VV	184	1116	0.03%	0.003%
23	5.046	5.036	5.071	VV	135	2261	0.07%	0.005%
24	5.075	5.071	5.087	VV	170	1085	0.03%	0.003%
25	5.090	5.087	5.124	VV	175	2899	0.09%	0.007%
26	5.129	5.124	5.135	VV	123	555	0.02%	0.001%
27	5.156	5.135	5.166	VV	201	2510	0.07%	0.006%
28	5.173	5.166	5.188	VV	208	1666	0.05%	0.004%
29	5.192	5.188	5.210	VV	114	1302	0.04%	0.003%
30	5.215	5.210	5.230	VV	127	904	0.03%	0.002%
31	5.241	5.230	5.261	VV	138	1416	0.04%	0.003%
32	5.265	5.261	5.273	VV	79	325	0.01%	0.001%
33	5.295	5.273	5.299	PV	100	633	0.02%	0.002%
34	5.307	5.299	5.325	VV	92	1050	0.03%	0.003%
35	5.331	5.325	5.342	VV	110	855	0.03%	0.002%
36	5.345	5.342	5.351	VV	83	349	0.01%	0.001%

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Instrument :
FID_G
ClientSampleId :
TP-24MSD

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 05/22/2025
Supervised By :mohammad ahmed 05/23/2025

A B C D E F G H I J

					rteres			
37	5.356	5.351	5.371	VV	90	729	0.02%	0.002%
38	5.385	5.371	5.410	VV	72	1020		
39	5.417	5.410	5.430	VV	94	650		
40	5.470	5.430	5.484	VV	164	2774		
41	5.487	5.484	5.502	VV	87	852		
42	5.510	5.502	5.520	VV	64	519		
43	5.535	5.520	5.550	VV	125	1032	0.03%	0.002%
44	5.576	5.550	5.590	PV	102	1118	0.03%	0.003%
45	5.598	5.590	5.607	VV	102	661	0.02%	0.002%
46	5.614	5.607	5.620	VV	96	369	0.01%	0.001%
47	5.637	5.620	5.665	VV	420	5927	0.18%	0.014%
48	5.692	5.665	5.702	VV	149	2250	0.07%	0.005%
49	5.731	5.702	5.737	VV	319	3733	0.11%	0.009%
50	5.745	5.737	5.751	VV	343	2523	0.08%	0.006%
51	5.762	5.751	5.767	VV	337	2960	0.09%	0.007%
52	5.780	5.767	5.793	VV	397	5260	0.16%	0.013%
53	5.808	5.793	5.823	VV	425	6567	0.20%	0.016%
54	5.833	5.823	5.854	VV	454	6494	0.19%	0.016%
55	5.860	5.854	5.877	VV	340	3921	0.12%	0.009%
56	5.882	5.877	5.970	VV	375	15571	0.46%	0.037%
57	5.982	5.970	5.988	VV	242	2062	0.06%	0.005%
58	5.998	5.988	6.012	VV	192	2324	0.07%	0.006%
59	6.016	6.012	6.030	VV	179	1593	0.05%	0.004%
60	6.036	6.030	6.039	VV	230	727	0.02%	0.002%
61	6.043	6.039	6.049	VV	187	795	0.02%	0.002%
62	6.054	6.049	6.089	VV	144	2655	0.08%	0.006%
63	6.110	6.089	6.144	PV	215	3761	0.11%	0.009%
64	6.163	6.144	6.182	VV	239	3686	0.11%	0.009%
65	6.207	6.182	6.216	VV	337	4902	0.15%	0.012%
66	6.264	6.216	6.302	VV	398	15794	0.47%	0.038%
67	6.316	6.302	6.345	VV	479	9352	0.28%	0.022%
68	6.382	6.345	6.415	VV	673	16814	0.50%	0.040%
69	6.420	6.415	6.498	VV	341	11690	0.35%	0.028%
70	6.561	6.498	6.618	VV	323	12654	0.38%	0.030%
71	6.670	6.618	6.799	VV	257984	2800164	83.51%	6.730%
72	6.826	6.799	6.984	VV	7523	365241	10.89%	0.878%
73	6.993	6.984	7.022	VV	1473	29138	0.87%	0.070%
74	7.033	7.022	7.112	VV	1170	44945	1.34%	0.108%
75	7.134	7.112	7.153	VV	678	14986	0.45%	0.036%
76	7.202	7.153	7.235	VV	942	38204	1.14%	0.092%
77	7.243	7.235	7.285	VV	903	25159	0.75%	0.060%
78	7.290	7.285	7.334	VV	756	17600	0.52%	0.042%
79	7.350	7.334	7.370	VV	597	10833	0.32%	0.026%
80	7.393	7.370	7.442	VV	968	21786	0.65%	0.052%
81	7.455	7.442	7.480	VV	350	6324	0.19%	0.015%
82	7.495	7.480	7.552	VV	317	9275	0.28%	0.022%
83	7.565	7.552	7.605	VV	318	6505	0.19%	0.016%
84	7.624	7.605	7.692	VV	556	12105	0.36%	0.029%
85	7.727	7.692	7.769	VV	125	3627	0.11%	0.009%
86	7.800	7.769	7.820	VV	231	3746	0.11%	0.009%
87	7.846	7.820	7.859	PV	91	932	0.03%	0.002%
88	7.905	7.859	7.987	PV	1397	38205	1.14%	0.092%
89	7.995	7.987	8.022	VV	275	3621	0.11%	0.009%

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Instrument :
FID_G
ClientSampleId :
TP-24MSD

rteres

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 05/22/2025
Supervised By :mohammad ahmed 05/23/2025

90	8.050	8.022	8.060	VV	444	6646	0.20%	0.016%
91	8.078	8.060	8.130	VV	1082	17945		
92	8.151	8.130	8.174	VV	316	5086		
93	8.197	8.174	8.219	VV	914	12196		
94	8.254	8.219	8.300	VV	1084	20449		
95	8.322	8.300	8.347	VV	722	8754		
96	8.361	8.347	8.384	VV	178	2675	0.08%	0.006%
97	8.410	8.384	8.431	VV	409	5538	0.17%	0.013%
98	8.505	8.431	8.615	VV	254025	2896734	86.39%	6.963%
99	8.651	8.615	8.732	VV	2161	81886	2.44%	0.197%
100	8.744	8.732	8.772	VV	548	10159	0.30%	0.024%
101	8.779	8.772	8.809	VV	386	6897	0.21%	0.017%
102	8.819	8.809	8.849	VV	315	6866	0.20%	0.017%
103	8.865	8.849	8.905	VV	599	11866	0.35%	0.029%
104	8.954	8.905	8.977	VV	527	17272	0.52%	0.042%
105	9.004	8.977	9.030	VV	1042	25122	0.75%	0.060%
106	9.046	9.030	9.085	VV	1379	24548	0.73%	0.059%
107	9.099	9.085	9.145	VV	365	8839	0.26%	0.021%
108	9.165	9.145	9.184	VV	229	3663	0.11%	0.009%
109	9.193	9.184	9.210	VV	208	2254	0.07%	0.005%
110	9.248	9.210	9.315	VV	867	34085	1.02%	0.082%
111	9.337	9.315	9.346	VV	833	10551	0.31%	0.025%
112	9.388	9.346	9.509	VV	12599	298800	8.91%	0.718%
113	9.527	9.509	9.562	VV	382	8234	0.25%	0.020%
114	9.571	9.562	9.602	VV	215	3348	0.10%	0.008%
115	9.637	9.602	9.682	VV	218	4989	0.15%	0.012%
116	9.738	9.682	9.839	PV	1683	81674	2.44%	0.196%
117	9.896	9.839	9.925	VV	1415	31057	0.93%	0.075%
118	9.950	9.925	9.965	VV	671	9944	0.30%	0.024%
119	9.986	9.965	9.998	VV	921	12839	0.38%	0.031%
120	10.028	9.998	10.086	VV	2219	81604	2.43%	0.196%
121	10.118	10.086	10.374	VV	260518	3129463	93.33%	7.522%
122	10.383	10.374	10.419	VV	117	2171	0.06%	0.005%
123	10.467	10.419	10.484	PV	545	11419	0.34%	0.027%
124	10.506	10.484	10.550	VV	1457	26051	0.78%	0.063%
125	10.585	10.550	10.623	VV	521	16878	0.50%	0.041%
126	10.647	10.623	10.660	VV	397	6715	0.20%	0.016%
127	10.681	10.660	10.709	VV	828	12720	0.38%	0.031%
128	10.752	10.709	10.766	VV	341	7523	0.22%	0.018%
129	10.788	10.766	10.807	VV	419	6672	0.20%	0.016%
130	10.860	10.807	10.901	VV	1300	35232	1.05%	0.085%
131	10.932	10.901	11.034	VV	3530	84976	2.53%	0.204%
132	11.137	11.034	11.217	VV	8475	235529	7.02%	0.566%
133	11.237	11.217	11.292	VV	2249	67707	2.02%	0.163%
134	11.312	11.292	11.355	VV	1114	31713	0.95%	0.076%
135	11.368	11.355	11.409	VV	772	18792	0.56%	0.045%
136	11.420	11.409	11.442	VV	471	8084	0.24%	0.019%
137	11.494	11.442	11.522	VV	1581	46254	1.38%	0.111%
138	11.566	11.522	11.629	VV	278161	3293146	98.21%	7.915%
139	11.655	11.629	11.689	VV	3525	69923	2.09%	0.168%
140	11.710	11.689	11.745	VV	1070	27508	0.82%	0.066%
141	11.762	11.745	11.792	VV	672	14731	0.44%	0.035%

Instrument :
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TP-24MSD

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 05/22/2025
Supervised By :mohammad ahmed 05/23/2025

rteres

142	11.858	11.792	11.907	VV	1179	53403	1.59%	0.128%
143	11.954	11.907	11.980	VV	1837	55204		
144	11.992	11.980	12.027	VV	1692	42101		
145	12.050	12.027	12.107	VV	4555	102299		
146	12.126	12.107	12.158	VV	1523	36047		
147	12.174	12.158	12.187	VV	854	14144		
148	12.216	12.187	12.268	VV	2099	70505	2.10%	0.169%
149	12.295	12.268	12.321	VV	1815	41847	1.25%	0.101%
150	12.337	12.321	12.379	VV	1354	41066	1.22%	0.099%
151	12.386	12.379	12.410	VV	1152	19637	0.59%	0.047%
152	12.436	12.410	12.474	VV	1503	46759	1.39%	0.112%
153	12.494	12.474	12.579	VV	12207	217260	6.48%	0.522%
154	12.595	12.579	12.614	VV	1512	29835	0.89%	0.072%
155	12.625	12.614	12.635	VV	1454	18459	0.55%	0.044%
156	12.648	12.635	12.681	VV	1685	38690	1.15%	0.093%
157	12.703	12.681	12.725	VV	2006	39541	1.18%	0.095%
158	12.737	12.725	12.779	VV	1325	39882	1.19%	0.096%
159	12.800	12.779	12.822	VV	1976	40987	1.22%	0.099%
160	12.880	12.822	12.930	VV	268114	3321447	99.06%	7.983%
161	12.960	12.930	13.047	VV	12384	322288	9.61%	0.775%
162	13.060	13.047	13.077	VV	1399	23476	0.70%	0.056%
163	13.094	13.077	13.104	VV	1381	21613	0.64%	0.052%
164	13.154	13.104	13.200	VV	1788	90366	2.70%	0.217%
165	13.205	13.200	13.221	VV	1527	16717	0.50%	0.040%
166	13.259	13.221	13.349	VV	8399	280315	8.36%	0.674%
167	13.376	13.349	13.449	VV	3159	124493	3.71%	0.299%
168	13.456	13.449	13.475	VV	1658	23925	0.71%	0.058%
169	13.495	13.475	13.519	VV	1948	43152	1.29%	0.104%
170	13.559	13.519	13.582	VV	2005	69476	2.07%	0.167%
171	13.598	13.582	13.619	VV	1759	36955	1.10%	0.089%
172	13.628	13.619	13.640	VV	1612	20054	0.60%	0.048%
173	13.660	13.640	13.680	VV	1810	39731	1.18%	0.095%
174	13.719	13.680	13.754	VV	2777	94002	2.80%	0.226%
175	13.767	13.754	13.792	VV	2289	44217	1.32%	0.106%
176	13.803	13.792	13.824	VV	1800	31000	0.92%	0.075%
177	13.848	13.824	13.859	VV	1945	36677	1.09%	0.088%
178	13.884	13.859	13.895	VV	2487	48893	1.46%	0.118%
179	13.918	13.895	13.954	VV	3098	88133	2.63%	0.212%
180	13.986	13.954	14.019	VV	2720	90349	2.69%	0.217%
181	14.034	14.019	14.046	VV	2521	38502	1.15%	0.093%
182	14.082	14.046	14.122	VV	262474	3277056	97.73%	7.877%
183	14.134	14.122	14.150	VV	2635	42346	1.26%	0.102%
184	14.166	14.150	14.197	VV	2229	57156	1.70%	0.137%
185	14.217	14.197	14.267	VV	1953	73483	2.19%	0.177%
186	14.314	14.267	14.339	VV	2980	96218	2.87%	0.231%
187	14.347	14.339	14.364	VV	2047	29690	0.89%	0.071%
188	14.381	14.364	14.425	VV	2092	66978	2.00%	0.161%
189	14.489	14.425	14.541	VV	3439	173421	5.17%	0.417%
190	14.571	14.541	14.620	VV	1910	86439	2.58%	0.208%
191	14.644	14.620	14.668	VV	2741	63161	1.88%	0.152%
192	14.711	14.668	14.725	VV	2763	80286	2.39%	0.193%
193	14.769	14.725	14.823	VV	2966	145442	4.34%	0.350%
194	14.854	14.823	14.865	VV	2292	54027	1.61%	0.130%

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Instrument :
FID_G
ClientSampleId :
TP-24MSD

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 05/22/2025
Supervised By :mohammad ahmed 05/23/2025

A B C D E F G H I J

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195	14.887	14.865	14.909	VV	2550	62415	1.86%	0.150%
196	14.922	14.909	14.946	VV	2418	49340	1	
197	14.984	14.946	15.023	VV	119362	1693462	50	
198	15.037	15.023	15.055	VV	2861	50926	1	
199	15.069	15.055	15.130	VV	2755	96140	2	
200	15.188	15.130	15.227	VV	263881	3353088	100	
201	15.233	15.227	15.292	VV	4166	118687	3.54%	0.285%
202	15.323	15.292	15.358	VV	2523	86074	2.57%	0.207%
203	15.390	15.358	15.415	VV	2061	62102	1.85%	0.149%
204	15.433	15.415	15.466	VV	2009	56570	1.69%	0.136%
205	15.475	15.466	15.496	VV	1889	30866	0.92%	0.074%
206	15.572	15.496	15.685	VV	36988	901242	26.88%	2.166%
207	15.709	15.685	15.757	VV	4957	140888	4.20%	0.339%
208	15.776	15.757	15.820	VV	4538	104258	3.11%	0.251%
209	15.845	15.820	15.867	VV	1904	46075	1.37%	0.111%
210	15.888	15.867	15.910	VV	1672	39272	1.17%	0.094%
211	15.927	15.910	15.942	VV	1577	28065	0.84%	0.067%
212	15.967	15.942	15.980	VV	1648	34584	1.03%	0.083%
213	16.018	15.980	16.068	VV	2462	102896	3.07%	0.247%
214	16.097	16.068	16.150	VV	2498	88195	2.63%	0.212%
215	16.212	16.150	16.295	VV	240182	3312874	98.80%	7.963%
216	16.309	16.295	16.327	VV	1264	21159	0.63%	0.051%
217	16.343	16.327	16.366	VV	1106	23856	0.71%	0.057%
218	16.397	16.366	16.424	VV	1307	38237	1.14%	0.092%
219	16.454	16.424	16.475	VV	1109	31034	0.93%	0.075%
220	16.521	16.475	16.555	VV	1778	68095	2.03%	0.164%
221	16.595	16.555	16.640	VV	4450	120476	3.59%	0.290%
222	16.652	16.640	16.670	VV	1506	25531	0.76%	0.061%
223	16.695	16.670	16.727	VV	4001	70426	2.10%	0.169%
224	16.770	16.727	16.834	VV	2034	78335	2.34%	0.188%
225	16.852	16.834	16.885	VV	1044	26361	0.79%	0.063%
226	16.919	16.885	16.949	VV	1103	30788	0.92%	0.074%
227	16.990	16.949	17.028	VV	1535	47028	1.40%	0.113%
228	17.042	17.028	17.061	VV	1093	17958	0.54%	0.043%
229	17.075	17.061	17.109	VV	946	22346	0.67%	0.054%
230	17.165	17.109	17.200	VV	230237	3185580	95.00%	7.657%
231	17.209	17.200	17.230	VV	1872	24173	0.72%	0.058%
232	17.243	17.230	17.333	VV	989	28349	0.85%	0.068%
233	17.343	17.333	17.364	PV	158	1770	0.05%	0.004%

Sum of corrected areas: 41604525

FG042425.M Thu May 22 01:27:22 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
Q2074-05		FF015884.D	FF052125	TETRACOSANE-d50 (SURROGA	mohammad	5/23/2025 5:16:29 AM	Peak Integrated by Software incorrectly
Q2074-07		FF015886.D	FF052125	TETRACOSANE-d50 (SURROGA	mohammad	5/23/2025 5:16:29 AM	Peak Integrated by Software incorrectly
I.BLK		FF015888.D	FF052125	TETRACOSANE-d50 (SURROGA	mohammad	5/23/2025 5:16:29 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
Q2032-06MSD		FG015874.D	FG052125	N-OCTACOSANE	mohammad	5/23/2025 5:15:22 AM	Peak Integrated by Software incorrectly
Q2074-03		FG015881.D	FG052125	TETRACOSANE-d50 (SURROGA	mohammad	5/23/2025 5:15:22 AM	Peak Integrated by Software incorrectly

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

Instrument ID: FID_F

Daily Analysis Runlog For Sequence/QCBatch ID # FF052125

Review By	yogesh	Review On	5/21/2025 1:57:54 PM		
Supervise By	mohammad	Supervise On	5/23/2025 5:16:29 AM		
SubDirectory	FF052125	HP Acquire Method		HP Processing Method	FF052125

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	FF015872.D	21 May 2025 09:21	YP\AJ	Ok
2	I.BLK	FF015873.D	21 May 2025 09:50	YP\AJ	Ok
3	100 TRPH STD	FF015874.D	21 May 2025 10:19	YP\AJ	Ok
4	50 TRPH STD	FF015875.D	21 May 2025 10:48	YP\AJ	Ok
5	20 TRPH STD	FF015876.D	21 May 2025 11:18	YP\AJ	Ok
6	10 TRPH STD	FF015877.D	21 May 2025 11:47	YP\AJ	Ok
7	5 TRPH STD	FF015878.D	21 May 2025 12:16	YP\AJ	Ok
8	FF052125ICV	FF015879.D	21 May 2025 12:45	YP\AJ	Ok
9	I.BLK	FF015880.D	21 May 2025 13:15	YP\AJ	Ok
10	50 PPM TRPH STD	FF015881.D	21 May 2025 13:44	YP\AJ	Ok
11	RT MARKER	FF015882.D	21 May 2025 14:13	YP\AJ	Ok
12	Q2074-04	FF015883.D	21 May 2025 14:43	YP\AJ	Ok
13	Q2074-05	FF015884.D	21 May 2025 15:12	YP\AJ	Ok,M
14	Q2074-06	FF015885.D	21 May 2025 15:41	YP\AJ	Ok
15	Q2074-07	FF015886.D	21 May 2025 16:10	YP\AJ	Ok,M
16	Q2074-08	FF015887.D	21 May 2025 16:40	YP\AJ	Ok
17	I.BLK	FF015888.D	21 May 2025 17:09	YP\AJ	Ok,M
18	50 PPM TRPH STD	FF015889.D	21 May 2025 17:38	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 # FG042425

Review By	yogesh	Review On	4/24/2025 12:59:08 PM		
Supervise By	mohammad	Supervise On	4/26/2025 2:19:49 AM		
SubDirectory	FG042425	HP Acquire Method		HP Processing Method	FG042425

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	FG015754.D	24 Apr 2025 09:50	YP\AJ	Ok
2	I.BLK	FG015755.D	24 Apr 2025 10:19	YP\AJ	Ok
3	100 TRPH STD	FG015756.D	24 Apr 2025 10:48	YP\AJ	Ok
4	50 TRPH STD	FG015757.D	24 Apr 2025 11:17	YP\AJ	Ok
5	20 TRPH STD	FG015758.D	24 Apr 2025 11:46	YP\AJ	Ok
6	10 TRPH STD	FG015759.D	24 Apr 2025 12:16	YP\AJ	Ok
7	5 TRPH STD	FG015760.D	24 Apr 2025 12:45	YP\AJ	Ok
8	FG042225ICV	FG015761.D	24 Apr 2025 13:14	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 # FG052125

Review By	yogesh	Review On	5/21/2025 10:13:35 AM		
Supervise By	mohammad	Supervise On	5/23/2025 5:15:22 AM		
SubDirectory	FG052125	HP Acquire Method		HP Processing Method	FG042425

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	FG015863.D	21 May 2025 09:21	YP\AJ	Ok
2	I.BLK	FG015864.D	21 May 2025 09:50	YP\AJ	Ok
3	50 PPM TRPH STD	FG015865.D	21 May 2025 10:19	YP\AJ	Ok
4	RT MARKER	FG015866.D	21 May 2025 10:48	YP\AJ	Ok
5	PB168084BL	FG015867.D	21 May 2025 11:18	YP\AJ	Ok
6	PB168084BS	FG015868.D	21 May 2025 11:47	YP\AJ	Ok
7	Q2032-01	FG015869.D	21 May 2025 12:16	YP\AJ	Ok
8	Q2032-02	FG015870.D	21 May 2025 12:45	YP\AJ	Ok
9	Q2032-03	FG015871.D	21 May 2025 13:15	YP\AJ	Ok
10	Q2032-04	FG015872.D	21 May 2025 13:44	YP\AJ	Ok
11	Q2032-05MS	FG015873.D	21 May 2025 14:13	YP\AJ	Ok
12	Q2032-06MSD	FG015874.D	21 May 2025 14:43	YP\AJ	Ok,M
13	I.BLK	FG015875.D	21 May 2025 15:12	YP\AJ	Ok
14	50 PPM TRPH STD	FG015876.D	21 May 2025 15:41	YP\AJ	Ok
15	Q2032-07	FG015877.D	21 May 2025 16:10	YP\AJ	Ok
16	Q2032-08	FG015878.D	21 May 2025 16:40	YP\AJ	Ok
17	Q2074-01	FG015879.D	21 May 2025 17:09	YP\AJ	Ok
18	Q2074-02	FG015880.D	21 May 2025 17:38	YP\AJ	Ok
19	Q2074-03	FG015881.D	21 May 2025 18:07	YP\AJ	Ok,M
20	I.BLK	FG015882.D	21 May 2025 18:37	YP\AJ	Ok
21	50 PPM TRPH STD	FG015883.D	21 May 2025 19:06	YP\AJ	Ok

M : Manual Integration

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Fax : 908 789 8922

Instrument ID: FID_F

Daily Analysis Runlog For Sequence/QCBatch ID # FF052125

Review By	yogesh	Review On	5/21/2025 1:57:54 PM		
Supervise By	mohammad	Supervise On	5/23/2025 5:16:29 AM		
SubDirectory	FF052125	HP Acquire Method		HP Processing Method	FF052125

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		FF015872.D	21 May 2025 09:21		YP\AJ	Ok
2	I.BLK		FF015873.D	21 May 2025 09:50		YP\AJ	Ok
3	100 TRPH STD		FF015874.D	21 May 2025 10:19		YP\AJ	Ok
4	50 TRPH STD		FF015875.D	21 May 2025 10:48		YP\AJ	Ok
5	20 TRPH STD		FF015876.D	21 May 2025 11:18		YP\AJ	Ok
6	10 TRPH STD		FF015877.D	21 May 2025 11:47		YP\AJ	Ok
7	5 TRPH STD		FF015878.D	21 May 2025 12:16		YP\AJ	Ok
8	FF052125ICV		FF015879.D	21 May 2025 12:45		YP\AJ	Ok
9	I.BLK		FF015880.D	21 May 2025 13:15		YP\AJ	Ok
10	50 PPM TRPH STD		FF015881.D	21 May 2025 13:44		YP\AJ	Ok
11	RT MARKER		FF015882.D	21 May 2025 14:13		YP\AJ	Ok
12	Q2074-04		FF015883.D	21 May 2025 14:43		YP\AJ	Ok
13	Q2074-05		FF015884.D	21 May 2025 15:12		YP\AJ	Ok,M
14	Q2074-06		FF015885.D	21 May 2025 15:41		YP\AJ	Ok
15	Q2074-07		FF015886.D	21 May 2025 16:10		YP\AJ	Ok,M
16	Q2074-08		FF015887.D	21 May 2025 16:40		YP\AJ	Ok
17	I.BLK		FF015888.D	21 May 2025 17:09		YP\AJ	Ok,M
18	50 PPM TRPH STD		FF015889.D	21 May 2025 17:38		YP\AJ	Ok

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Instrument ID: FID_F

Daily Analysis Runlog For Sequence/QCBatch ID # FF052125

Review By	yogesh	Review On	5/21/2025 1:57:54 PM		
Supervise By	mohammad	Supervise On	5/23/2025 5:16:29 AM		
SubDirectory	FF052125	HP Acquire Method		HP Processing Method	FF052125

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	

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Instrument ID: FID_G

Daily Analysis Runlog For Sequence/QCBatch ID # FG042425

Review By	yogesh	Review On	4/24/2025 12:59:08 PM		
Supervise By	mohammad	Supervise On	4/26/2025 2:19:49 AM		
SubDirectory	FG042425	HP Acquire Method		HP Processing Method	FG042425

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		FG015754.D	24 Apr 2025 09:50		YP\AJ	Ok
2	I.BLK		FG015755.D	24 Apr 2025 10:19		YP\AJ	Ok
3	100 TRPH STD		FG015756.D	24 Apr 2025 10:48		YP\AJ	Ok
4	50 TRPH STD		FG015757.D	24 Apr 2025 11:17		YP\AJ	Ok
5	20 TRPH STD		FG015758.D	24 Apr 2025 11:46		YP\AJ	Ok
6	10 TRPH STD		FG015759.D	24 Apr 2025 12:16		YP\AJ	Ok
7	5 TRPH STD		FG015760.D	24 Apr 2025 12:45		YP\AJ	Ok
8	FG042225ICV		FG015761.D	24 Apr 2025 13:14		YP\AJ	Ok

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Instrument ID: FID_G

Daily Analysis Runlog For Sequence/QCBatch ID # FG052125

Review By	yogesh	Review On	5/21/2025 10:13:35 AM		
Supervise By	mohammad	Supervise On	5/23/2025 5:15:22 AM		
SubDirectory	FG052125	HP Acquire Method		HP Processing Method	FG042425

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		FG015863.D	21 May 2025 09:21		YP\AJ	Ok
2	I.BLK		FG015864.D	21 May 2025 09:50		YP\AJ	Ok
3	50 PPM TRPH STD		FG015865.D	21 May 2025 10:19		YP\AJ	Ok
4	RT MARKER		FG015866.D	21 May 2025 10:48		YP\AJ	Ok
5	PB168084BL		FG015867.D	21 May 2025 11:18		YP\AJ	Ok
6	PB168084BS		FG015868.D	21 May 2025 11:47		YP\AJ	Ok
7	Q2032-01		FG015869.D	21 May 2025 12:16		YP\AJ	Ok
8	Q2032-02		FG015870.D	21 May 2025 12:45		YP\AJ	Ok
9	Q2032-03		FG015871.D	21 May 2025 13:15		YP\AJ	Ok
10	Q2032-04		FG015872.D	21 May 2025 13:44		YP\AJ	Ok
11	Q2032-05MS		FG015873.D	21 May 2025 14:13		YP\AJ	Ok
12	Q2032-06MSD		FG015874.D	21 May 2025 14:43		YP\AJ	Ok,M
13	I.BLK		FG015875.D	21 May 2025 15:12		YP\AJ	Ok
14	50 PPM TRPH STD		FG015876.D	21 May 2025 15:41		YP\AJ	Ok
15	Q2032-07		FG015877.D	21 May 2025 16:10		YP\AJ	Ok
16	Q2032-08		FG015878.D	21 May 2025 16:40		YP\AJ	Ok
17	Q2074-01		FG015879.D	21 May 2025 17:09		YP\AJ	Ok
18	Q2074-02		FG015880.D	21 May 2025 17:38		YP\AJ	Ok

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Instrument ID: FID_G

Daily Analysis Runlog For Sequence/QCBatch ID # FG052125

Review By	yogesh	Review On	5/21/2025 10:13:35 AM		
Supervise By	mohammad	Supervise On	5/23/2025 5:15:22 AM		
SubDirectory	FG052125	HP Acquire Method		HP Processing Method	FG042425

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24467,PP24469,PP24470,PP24471,PP24472
CCC	PP24469
Internal Standard/PEM	
ICV/I.BLK	PP24468,PP24473
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	Q2074-03		FG015881.D	21 May 2025 18:07		YP\AJ	Ok,M
20	I.BLK		FG015882.D	21 May 2025 18:37		YP\AJ	Ok
21	50 PPM TRPH STD		FG015883.D	21 May 2025 19:06		YP\AJ	Ok

M : Manual Integration

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EXTRACTION LOGPAGE

PB168084

11

SOP ID: M3541-ASE Extraction-14

Clean Up SOP #: N/A

Matrix : Solid

Weigh By: EH

Balance check: RJ

Balance ID: EX-SC-2

pH Strip Lot#: N/A

Extraction By: RJ

Filter By: RJ

pH Meter ID: N/A

Hood ID: 3,7

Extraction Start Date : 05/20/2025

Extraction Start Time : 10:15

Extraction End Date : 05/20/2025

Extraction End Time : 13:30

Concentration By: EH

Supervisor By : RUPESH

Extraction Method: ☐ Seperatory Funnel ☐ Continious Liquid/Liquid ☐ Sonication ☐ Waste Dilution ☑ Soxhlet

Standared Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Spike Sol 1	1.0ML	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	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

Extraction Conformance/Non-Conformance Comments:

1.5 ML Vial lot# 2210673.

KD Bath ID: N/A

KD Bath Temperature: N/A

Envap ID: NEVAP-02

Envap Temperature: 40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
5/20/25	RSCE04-lab)	R. Patel/PCB Lab
13:35	**Preparation Group**	**Analysis Group**

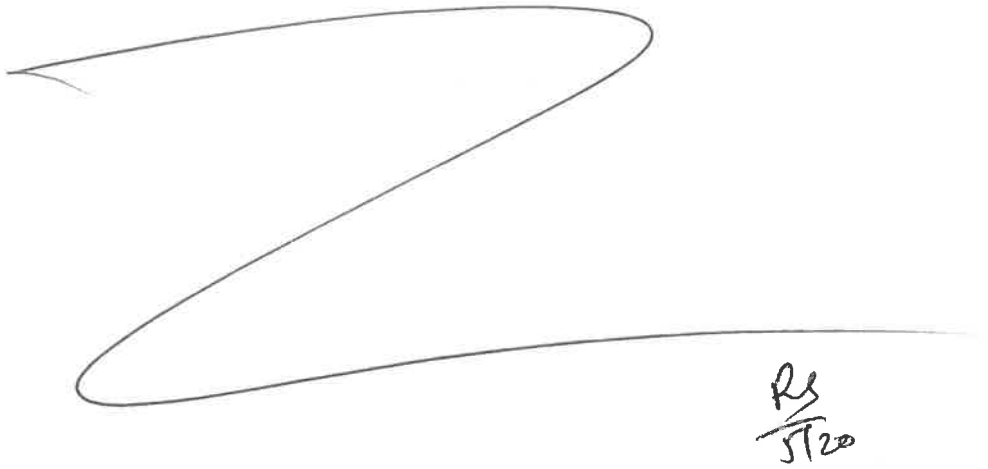
Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PrepBatch ID : PB168084

Analytical Method: M3541-ASE Extraction-14 **Concentration Date:** 05/20/2025

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB168084BL	PB168084BL	Diesel Range Organics	30.02	N/A	ritesh	Evelyn	1			U2-1
PB168084BS	PB168084BS	Diesel Range Organics	30.03	N/A	ritesh	Evelyn	1			2
Q2032-01	TP-11	Diesel Range Organics	30.05	N/A	ritesh	Evelyn	1	E		3
Q2032-02	TP-29	Diesel Range Organics	30.07	N/A	ritesh	Evelyn	1	E		4
Q2032-03	TP-29-99	Diesel Range Organics	30.02	N/A	ritesh	Evelyn	1	E		5
Q2032-04	TP-24	Diesel Range Organics	30.03	N/A	ritesh	Evelyn	1	E		6
Q2032-05	Q2032-04MS	Diesel Range Organics	30.08	N/A	ritesh	Evelyn	1	E		U3-1
Q2032-06	Q2032-04MSD	Diesel Range Organics	30.03	N/A	ritesh	Evelyn	1	E		2
Q2032-07	TP-37	Diesel Range Organics	30.04	N/A	ritesh	Evelyn	1	E		3
Q2032-08	TP-32	Diesel Range Organics	30.05	N/A	ritesh	Evelyn	1	E		4
Q2074-01	TP-12	Diesel Range Organics	30.01	N/A	ritesh	Evelyn	1	E		5
Q2074-02	TP-7	Diesel Range Organics	30.06	N/A	ritesh	Evelyn	1	E		6
Q2074-03	TP-15	Diesel Range Organics	30.04	N/A	ritesh	Evelyn	1	E		U1-1
Q2074-04	TP-20	Diesel Range Organics	30.05	N/A	ritesh	Evelyn	1	E		2
Q2074-05	TP-38	Diesel Range Organics	30.03	N/A	ritesh	Evelyn	1	E		3
Q2074-06	TP-19	Diesel Range Organics	30.01	N/A	ritesh	Evelyn	1	E		4
Q2074-07	TP-40	Diesel Range Organics	30.08	N/A	ritesh	Evelyn	1	E		5
Q2074-08	TP-18	Diesel Range Organics	30.07	N/A	ritesh	Evelyn	1	E		6



* **Extracts relinquished on the same date as received.**

Q2074 680834 10:15

WORKLIST(Hardcopy Internal Chain)

WorkList Name : Q2032DRO **WorkList ID :** 189623 **Department :** Extraction **Date :** 05-20-2025 08:40:30

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2032-01	TP-11	Solid	Diesel Range Organics	Cool 4 deg C	CAMP02	L41	05/13/2025	8015D
Q2032-02	TP-29	Solid	Diesel Range Organics	Cool 4 deg C	CAMP02	L41	05/13/2025	8015D
Q2032-03	TP-29-99	Solid	Diesel Range Organics	Cool 4 deg C	CAMP02	L41	05/13/2025	8015D
Q2032-04	TP-24	Solid	Diesel Range Organics	Cool 4 deg C	CAMP02	L41	05/13/2025	8015D
Q2032-05	Q2032-04MS	Solid	Diesel Range Organics	Cool 4 deg C	CAMP02	L41	05/13/2025	8015D
Q2032-06	Q2032-04MSD	Solid	Diesel Range Organics	Cool 4 deg C	CAMP02	L41	05/13/2025	8015D
Q2032-07	TP-37	Solid	Diesel Range Organics	Cool 4 deg C	CAMP02	L41	05/13/2025	8015D
Q2032-08	TP-32	Solid	Diesel Range Organics	Cool 4 deg C	CAMP02	L41	05/13/2025	8015D
Q2074-01	TP-12	Solid	Diesel Range Organics	Cool 4 deg C	CAMP02	L31	05/16/2025	8015D
Q2074-02	TP-7	Solid	Diesel Range Organics	Cool 4 deg C	CAMP02	L31	05/16/2025	8015D
Q2074-03	TP-15	Solid	Diesel Range Organics	Cool 4 deg C	CAMP02	L31	05/16/2025	8015D
Q2074-04	TP-20	Solid	Diesel Range Organics	Cool 4 deg C	CAMP02	L31	05/16/2025	8015D
Q2074-05	TP-38	Solid	Diesel Range Organics	Cool 4 deg C	CAMP02	L31	05/16/2025	8015D
Q2074-06	TP-19	Solid	Diesel Range Organics	Cool 4 deg C	CAMP02	L31	05/16/2025	8015D
Q2074-07	TP-40	Solid	Diesel Range Organics	Cool 4 deg C	CAMP02	L31	05/16/2025	8015D
Q2074-08	TP-18	Solid	Diesel Range Organics	Cool 4 deg C	CAMP02	L31	05/16/2025	8015D

1075 of 1178

Date/Time 5/20/25 10:10
Raw Sample Received by: RJ (Ext-Lab)
Raw Sample Relinquished by:

Date/Time 5/20/25 10:45
Raw Sample Received by:
Raw Sample Relinquished by: RJ (Ext-Lab)

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LAB CHRONICLE

OrderID:	Q2074	**OrderDate:**	5/16/2025 3:13:00 PM
Client:	CDM Smith	**Project:**	South River WM Replacement
Contact:	Marcie Ann Encinas	**Location:**	L31,VOA Ref. #2 Soil

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2074-01	**TP-12**	**SOIL**			**05/15/25**			**05/16/25**
			Diesel Range Organics	8015D		05/20/25	05/21/25	
			PCB	8082A		05/20/25	05/20/25	
			Pesticide-TCL	8081B		05/20/25	05/20/25	
			Gasoline Range Organics	8015D			05/20/25	
Q2074-02	**TP-7**	**SOIL**			**05/15/25**			**05/16/25**
			Diesel Range Organics	8015D		05/20/25	05/21/25	
			PCB	8082A		05/20/25	05/20/25	
			Pesticide-TCL	8081B		05/20/25	05/20/25	
			Gasoline Range Organics	8015D			05/20/25	
Q2074-03	**TP-15**	**SOIL**			**05/15/25**			**05/16/25**
			Diesel Range Organics	8015D		05/20/25	05/21/25	
			PCB	8082A		05/20/25	05/20/25	
			Pesticide-TCL	8081B		05/20/25	05/20/25	
			Gasoline Range Organics	8015D			05/20/25	
Q2074-04	**TP-20**	**SOIL**			**05/15/25**			**05/16/25**
			Diesel Range Organics	8015D		05/20/25	05/21/25	
			PCB	8082A		05/20/25	05/20/25	
			Pesticide-TCL	8081B		05/20/25	05/20/25	
			Gasoline Range Organics	8015D			05/20/25	
Q2074-05	**TP-38**	**SOIL**			**05/15/25**			**05/16/25**
			Diesel Range Organics	8015D		05/20/25	05/21/25	
			PCB	8082A		05/20/25	05/20/25	
			Pesticide-TCL	8081B		05/20/25	05/20/25	
Q2074-06	**TP-19**	**SOIL**			**05/15/25**			**05/16/25**
			Diesel Range Organics	8015D		05/20/25	05/21/25	
			PCB	8082A		05/20/25	05/20/25	

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LAB CHRONICLE

			Pesticide-TCL	8081B		05/20/25	05/20/25
			Gasoline Range Organics	8015D			05/20/25
Q2074-07	**TP-40**	**SOIL**			**05/15/25**		**05/16/25**
			Diesel Range Organics	8015D		05/20/25	05/21/25
			PCB	8082A		05/20/25	05/20/25
			Pesticide-TCL	8081B		05/20/25	05/20/25
Q2074-08	**TP-18**	**SOIL**			**05/16/25**		**05/16/25**
			Diesel Range Organics	8015D		05/20/25	05/21/25
			PCB	8082A		05/20/25	05/20/25
			Pesticide-TCL	8081B		05/20/25	05/20/25

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Hit Summary Sheet
SW-846

SDG No.: Q2074 **Order ID:** Q2074

Client: CDM Smith **Project ID:** South River WM Replacement

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID : TP-12								
Q2074-01	TP-12	SOIL	Aluminum	4290		0.85	5.05	mg/Kg
Q2074-01	TP-12	SOIL	Arsenic	2.11		0.19	1.01	mg/Kg
Q2074-01	TP-12	SOIL	Barium	34.1		0.74	5.05	mg/Kg
Q2074-01	TP-12	SOIL	Beryllium	0.46		0.025	0.30	mg/Kg
Q2074-01	TP-12	SOIL	Cadmium	0.25	J	0.024	0.30	mg/Kg
Q2074-01	TP-12	SOIL	Calcium	77.5	J	11.2	101	mg/Kg
Q2074-01	TP-12	SOIL	Chromium	9.76		0.047	0.51	mg/Kg
Q2074-01	TP-12	SOIL	Cobalt	2.92		0.10	1.52	mg/Kg
Q2074-01	TP-12	SOIL	Copper	6.97		0.22	1.01	mg/Kg
Q2074-01	TP-12	SOIL	Iron	9360		4.03	5.05	mg/Kg
Q2074-01	TP-12	SOIL	Lead	10.0		0.13	0.61	mg/Kg
Q2074-01	TP-12	SOIL	Magnesium	647		12.1	101	mg/Kg
Q2074-01	TP-12	SOIL	Manganese	26.4		0.14	1.01	mg/Kg
Q2074-01	TP-12	SOIL	Mercury	0.014	J	0.0080	0.015	mg/Kg
Q2074-01	TP-12	SOIL	Nickel	5.28		0.13	2.02	mg/Kg
Q2074-01	TP-12	SOIL	Potassium	187		28.0	101	mg/Kg
Q2074-01	TP-12	SOIL	Sodium	107		18.0	101	mg/Kg
Q2074-01	TP-12	SOIL	Thallium	0.41	J	0.23	2.02	mg/Kg
Q2074-01	TP-12	SOIL	Vanadium	16.6		0.25	2.02	mg/Kg
Q2074-01	TP-12	SOIL	Zinc	17.4		0.23	2.02	mg/Kg
Client ID : TP-7								
Q2074-02	TP-7	SOIL	Aluminum	6120		0.85	5.08	mg/Kg
Q2074-02	TP-7	SOIL	Arsenic	2.20		0.19	1.02	mg/Kg
Q2074-02	TP-7	SOIL	Barium	16.5		0.74	5.08	mg/Kg
Q2074-02	TP-7	SOIL	Beryllium	0.45		0.025	0.31	mg/Kg
Q2074-02	TP-7	SOIL	Cadmium	0.35		0.024	0.31	mg/Kg
Q2074-02	TP-7	SOIL	Calcium	190		11.3	102	mg/Kg
Q2074-02	TP-7	SOIL	Chromium	8.71		0.048	0.51	mg/Kg
Q2074-02	TP-7	SOIL	Cobalt	4.61		0.10	1.52	mg/Kg
Q2074-02	TP-7	SOIL	Copper	3.87		0.22	1.02	mg/Kg
Q2074-02	TP-7	SOIL	Iron	12100		4.05	5.08	mg/Kg
Q2074-02	TP-7	SOIL	Lead	3.49		0.13	0.61	mg/Kg
Q2074-02	TP-7	SOIL	Magnesium	226		12.2	102	mg/Kg
Q2074-02	TP-7	SOIL	Manganese	38.7		0.14	1.02	mg/Kg
Q2074-02	TP-7	SOIL	Mercury	0.011	J	0.0090	0.015	mg/Kg
Q2074-02	TP-7	SOIL	Nickel	4.00		0.13	2.03	mg/Kg
Q2074-02	TP-7	SOIL	Potassium	144		28.1	102	mg/Kg

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Hit Summary Sheet
SW-846

SDG No.: Q2074 **Order ID:** Q2074

Client: CDM Smith **Project ID:** South River WM Replacement

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Q2074-02	TP-7	SOIL	Sodium	274		18.1	102	mg/Kg
Q2074-02	TP-7	SOIL	Thallium	0.70	J	0.23	2.03	mg/Kg
Q2074-02	TP-7	SOIL	Vanadium	11.4		0.25	2.03	mg/Kg
Q2074-02	TP-7	SOIL	Zinc	10.4		0.23	2.03	mg/Kg
Client ID : TP-15								
Q2074-03	TP-15	SOIL	Aluminum	5090		0.88	5.25	mg/Kg
Q2074-03	TP-15	SOIL	Arsenic	2.18		0.20	1.05	mg/Kg
Q2074-03	TP-15	SOIL	Barium	26.4		0.77	5.25	mg/Kg
Q2074-03	TP-15	SOIL	Beryllium	0.29	J	0.026	0.32	mg/Kg
Q2074-03	TP-15	SOIL	Cadmium	0.21	J	0.025	0.32	mg/Kg
Q2074-03	TP-15	SOIL	Calcium	314		11.7	105	mg/Kg
Q2074-03	TP-15	SOIL	Chromium	8.23		0.049	0.53	mg/Kg
Q2074-03	TP-15	SOIL	Cobalt	1.91		0.11	1.57	mg/Kg
Q2074-03	TP-15	SOIL	Copper	6.10		0.23	1.05	mg/Kg
Q2074-03	TP-15	SOIL	Iron	6820		4.19	5.25	mg/Kg
Q2074-03	TP-15	SOIL	Lead	18.0		0.14	0.63	mg/Kg
Q2074-03	TP-15	SOIL	Magnesium	326		12.6	105	mg/Kg
Q2074-03	TP-15	SOIL	Manganese	28.7		0.15	1.05	mg/Kg
Q2074-03	TP-15	SOIL	Mercury	0.057		0.0080	0.014	mg/Kg
Q2074-03	TP-15	SOIL	Nickel	4.10		0.14	2.10	mg/Kg
Q2074-03	TP-15	SOIL	Potassium	127		29.1	105	mg/Kg
Q2074-03	TP-15	SOIL	Sodium	300		18.7	105	mg/Kg
Q2074-03	TP-15	SOIL	Thallium	0.28	J	0.24	2.10	mg/Kg
Q2074-03	TP-15	SOIL	Vanadium	13.4		0.26	2.10	mg/Kg
Q2074-03	TP-15	SOIL	Zinc	31.9		0.24	2.10	mg/Kg
Client ID : TP-20								
Q2074-04	TP-20	SOIL	Aluminum	6620		0.89	5.30	mg/Kg
Q2074-04	TP-20	SOIL	Arsenic	2.51		0.20	1.06	mg/Kg
Q2074-04	TP-20	SOIL	Barium	21.3		0.77	5.30	mg/Kg
Q2074-04	TP-20	SOIL	Beryllium	0.25	J	0.026	0.32	mg/Kg
Q2074-04	TP-20	SOIL	Cadmium	0.096	J	0.025	0.32	mg/Kg
Q2074-04	TP-20	SOIL	Calcium	244		11.8	106	mg/Kg
Q2074-04	TP-20	SOIL	Chromium	9.72		0.050	0.53	mg/Kg
Q2074-04	TP-20	SOIL	Cobalt	2.38		0.11	1.59	mg/Kg
Q2074-04	TP-20	SOIL	Copper	3.83		0.23	1.06	mg/Kg
Q2074-04	TP-20	SOIL	Iron	7000		4.23	5.30	mg/Kg
Q2074-04	TP-20	SOIL	Lead	6.24		0.14	0.64	mg/Kg
Q2074-04	TP-20	SOIL	Magnesium	592		12.7	106	mg/Kg
Q2074-04	TP-20	SOIL	Manganese	21.1		0.15	1.06	mg/Kg

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Hit Summary Sheet
SW-846

SDG No.: Q2074 **Order ID:** Q2074

Client: CDM Smith **Project ID:** South River WM Replacement

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Q2074-04	TP-20	SOIL	Mercury	0.033		0.0080	0.014	mg/Kg
Q2074-04	TP-20	SOIL	Nickel	4.21		0.14	2.12	mg/Kg
Q2074-04	TP-20	SOIL	Potassium	184		29.3	106	mg/Kg
Q2074-04	TP-20	SOIL	Sodium	532		18.9	106	mg/Kg
Q2074-04	TP-20	SOIL	Vanadium	18.5		0.27	2.12	mg/Kg
Q2074-04	TP-20	SOIL	Zinc	9.82		0.24	2.12	mg/Kg
Client ID :	**TP-38**							
Q2074-05	TP-38	SOIL	Aluminum	663		0.94	5.58	mg/Kg
Q2074-05	TP-38	SOIL	Arsenic	1.77		0.21	1.12	mg/Kg
Q2074-05	TP-38	SOIL	Barium	16.4		0.81	5.58	mg/Kg
Q2074-05	TP-38	SOIL	Beryllium	0.12	J	0.028	0.34	mg/Kg
Q2074-05	TP-38	SOIL	Calcium	42.3	J	12.4	112	mg/Kg
Q2074-05	TP-38	SOIL	Chromium	2.72		0.052	0.56	mg/Kg
Q2074-05	TP-38	SOIL	Cobalt	0.48	J	0.11	1.67	mg/Kg
Q2074-05	TP-38	SOIL	Copper	4.60		0.25	1.12	mg/Kg
Q2074-05	TP-38	SOIL	Iron	5030		4.45	5.58	mg/Kg
Q2074-05	TP-38	SOIL	Lead	1.44		0.14	0.67	mg/Kg
Q2074-05	TP-38	SOIL	Magnesium	28.9	J	13.4	112	mg/Kg
Q2074-05	TP-38	SOIL	Manganese	6.24		0.16	1.12	mg/Kg
Q2074-05	TP-38	SOIL	Nickel	0.43	J	0.14	2.23	mg/Kg
Q2074-05	TP-38	SOIL	Potassium	35.2	J	30.9	112	mg/Kg
Q2074-05	TP-38	SOIL	Sodium	35.7	J	19.8	112	mg/Kg
Q2074-05	TP-38	SOIL	Vanadium	6.23		0.28	2.23	mg/Kg
Q2074-05	TP-38	SOIL	Zinc	2.74		0.26	2.23	mg/Kg
Client ID :	**TP-19**							
Q2074-06	TP-19	SOIL	Aluminum	2270		0.82	4.89	mg/Kg
Q2074-06	TP-19	SOIL	Arsenic	4.36		0.19	0.98	mg/Kg
Q2074-06	TP-19	SOIL	Barium	7.17		0.71	4.89	mg/Kg
Q2074-06	TP-19	SOIL	Beryllium	0.53		0.024	0.29	mg/Kg
Q2074-06	TP-19	SOIL	Cadmium	0.46		0.023	0.29	mg/Kg
Q2074-06	TP-19	SOIL	Calcium	160		10.9	97.8	mg/Kg
Q2074-06	TP-19	SOIL	Chromium	13.5		0.046	0.49	mg/Kg
Q2074-06	TP-19	SOIL	Cobalt	1.95		0.098	1.47	mg/Kg
Q2074-06	TP-19	SOIL	Copper	9.89		0.22	0.98	mg/Kg
Q2074-06	TP-19	SOIL	Iron	25100		3.90	4.89	mg/Kg
Q2074-06	TP-19	SOIL	Lead	10.5		0.13	0.59	mg/Kg
Q2074-06	TP-19	SOIL	Magnesium	102		11.7	97.8	mg/Kg
Q2074-06	TP-19	SOIL	Manganese	43.6		0.14	0.98	mg/Kg
Q2074-06	TP-19	SOIL	Mercury	0.051		0.0090	0.015	mg/Kg

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Hit Summary Sheet
SW-846

SDG No.: Q2074 **Order ID:** Q2074

Client: CDM Smith **Project ID:** South River WM Replacement

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Q2074-06	TP-19	SOIL	Nickel	2.42		0.13	1.96	mg/Kg
Q2074-06	TP-19	SOIL	Potassium	143		27.1	97.8	mg/Kg
Q2074-06	TP-19	SOIL	Sodium	54.2	J	17.4	97.8	mg/Kg
Q2074-06	TP-19	SOIL	Thallium	1.96		0.23	1.96	mg/Kg
Q2074-06	TP-19	SOIL	Vanadium	20.4		0.25	1.96	mg/Kg
Q2074-06	TP-19	SOIL	Zinc	35.3		0.23	1.96	mg/Kg
Client ID :	**TP-40**							
Q2074-07	TP-40	SOIL	Aluminum	2050		0.88	5.21	mg/Kg
Q2074-07	TP-40	SOIL	Arsenic	2.26		0.20	1.04	mg/Kg
Q2074-07	TP-40	SOIL	Barium	15.9		0.76	5.21	mg/Kg
Q2074-07	TP-40	SOIL	Beryllium	0.18	J	0.026	0.31	mg/Kg
Q2074-07	TP-40	SOIL	Cadmium	0.065	J	0.025	0.31	mg/Kg
Q2074-07	TP-40	SOIL	Calcium	636		11.6	104	mg/Kg
Q2074-07	TP-40	SOIL	Chromium	7.76		0.049	0.52	mg/Kg
Q2074-07	TP-40	SOIL	Cobalt	0.65	J	0.10	1.56	mg/Kg
Q2074-07	TP-40	SOIL	Copper	9.10		0.23	1.04	mg/Kg
Q2074-07	TP-40	SOIL	Iron	7070		4.16	5.21	mg/Kg
Q2074-07	TP-40	SOIL	Lead	13.3		0.14	0.63	mg/Kg
Q2074-07	TP-40	SOIL	Magnesium	136		12.5	104	mg/Kg
Q2074-07	TP-40	SOIL	Manganese	11.9		0.15	1.04	mg/Kg
Q2074-07	TP-40	SOIL	Mercury	0.027		0.0070	0.013	mg/Kg
Q2074-07	TP-40	SOIL	Nickel	1.09	J	0.14	2.09	mg/Kg
Q2074-07	TP-40	SOIL	Potassium	180		28.9	104	mg/Kg
Q2074-07	TP-40	SOIL	Sodium	514		18.6	104	mg/Kg
Q2074-07	TP-40	SOIL	Thallium	0.36	J	0.24	2.09	mg/Kg
Q2074-07	TP-40	SOIL	Vanadium	13.8		0.26	2.09	mg/Kg
Q2074-07	TP-40	SOIL	Zinc	22.0		0.24	2.09	mg/Kg
Client ID :	**TP-18**							
Q2074-08	TP-18	SOIL	Aluminum	4710		1.03	6.13	mg/Kg
Q2074-08	TP-18	SOIL	Arsenic	6.54		0.23	1.23	mg/Kg
Q2074-08	TP-18	SOIL	Barium	18.5		0.90	6.13	mg/Kg
Q2074-08	TP-18	SOIL	Beryllium	0.70		0.031	0.37	mg/Kg
Q2074-08	TP-18	SOIL	Cadmium	0.26	J	0.029	0.37	mg/Kg
Q2074-08	TP-18	SOIL	Calcium	447		13.6	123	mg/Kg
Q2074-08	TP-18	SOIL	Chromium	18.2		0.058	0.61	mg/Kg
Q2074-08	TP-18	SOIL	Cobalt	2.74		0.12	1.84	mg/Kg
Q2074-08	TP-18	SOIL	Copper	14.2		0.27	1.23	mg/Kg
Q2074-08	TP-18	SOIL	Iron	36100		4.90	6.13	mg/Kg
Q2074-08	TP-18	SOIL	Lead	31.8		0.16	0.74	mg/Kg

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Hit Summary Sheet
SW-846

SDG No.: Q2074 **Order ID:** Q2074

Client: CDM Smith **Project ID:** South River WM Replacement

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Q2074-08	TP-18	SOIL	Magnesium	112	J	14.7	123	mg/Kg
Q2074-08	TP-18	SOIL	Manganese	24.7		0.17	1.23	mg/Kg
Q2074-08	TP-18	SOIL	Mercury	0.030		0.0090	0.017	mg/Kg
Q2074-08	TP-18	SOIL	Nickel	3.24		0.16	2.45	mg/Kg
Q2074-08	TP-18	SOIL	Potassium	218		34.0	123	mg/Kg
Q2074-08	TP-18	SOIL	Sodium	141		21.8	123	mg/Kg
Q2074-08	TP-18	SOIL	Thallium	2.76		0.28	2.45	mg/Kg
Q2074-08	TP-18	SOIL	Vanadium	32.9		0.31	2.45	mg/Kg
Q2074-08	TP-18	SOIL	Zinc	24.3		0.28	2.45	mg/Kg

SAMPLE DATA

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Report of Analysis

Client:	CDM Smith	Date Collected:	05/15/25
Project:	South River WM Replacement	Date Received:	05/16/25
Client Sample ID:	TP-12	SDG No.:	Q2074
Lab Sample ID:	Q2074-01	Matrix:	SOIL
Level (low/med):	low	% Solid:	83.5

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	4290		1	0.85	5.05	mg/Kg	05/20/25 12:15	05/21/25 19:36	6010D	SW3050
7440-36-0	Antimony	0.22	UN	1	0.22	2.53	mg/Kg	05/20/25 12:15	05/21/25 19:36	6010D	SW3050
7440-38-2	Arsenic	2.11	*	1	0.19	1.01	mg/Kg	05/20/25 12:15	05/21/25 19:36	6010D	SW3050
7440-39-3	Barium	34.1		1	0.74	5.05	mg/Kg	05/20/25 12:15	05/21/25 19:36	6010D	SW3050
7440-41-7	Beryllium	0.46		1	0.025	0.30	mg/Kg	05/20/25 12:15	05/21/25 19:36	6010D	SW3050
7440-43-9	Cadmium	0.25	J	1	0.024	0.30	mg/Kg	05/20/25 12:15	05/21/25 19:36	6010D	SW3050
7440-70-2	Calcium	77.5	J	1	11.2	101	mg/Kg	05/20/25 12:15	05/21/25 19:36	6010D	SW3050
7440-47-3	Chromium	9.76	*	1	0.047	0.51	mg/Kg	05/20/25 12:15	05/21/25 19:36	6010D	SW3050
7440-48-4	Cobalt	2.92		1	0.10	1.52	mg/Kg	05/20/25 12:15	05/21/25 19:36	6010D	SW3050
7440-50-8	Copper	6.97		1	0.22	1.01	mg/Kg	05/20/25 12:15	05/21/25 19:36	6010D	SW3050
7439-89-6	Iron	9360	*	1	4.03	5.05	mg/Kg	05/20/25 12:15	05/21/25 19:36	6010D	SW3050
7439-92-1	Lead	10.0		1	0.13	0.61	mg/Kg	05/20/25 12:15	05/21/25 19:36	6010D	SW3050
7439-95-4	Magnesium	647		1	12.1	101	mg/Kg	05/20/25 12:15	05/21/25 19:36	6010D	SW3050
7439-96-5	Manganese	26.4		1	0.14	1.01	mg/Kg	05/20/25 12:15	05/21/25 19:36	6010D	SW3050
7439-97-6	Mercury	0.014	J	1	0.0080	0.015	mg/Kg	05/19/25 13:50	05/20/25 14:17	7471B	
7440-02-0	Nickel	5.28		1	0.13	2.02	mg/Kg	05/20/25 12:15	05/21/25 19:36	6010D	SW3050
7440-09-7	Potassium	187	N	1	28.0	101	mg/Kg	05/20/25 12:15	05/21/25 19:36	6010D	SW3050
7782-49-2	Selenium	0.26	U	1	0.26	1.01	mg/Kg	05/20/25 12:15	05/21/25 19:36	6010D	SW3050
7440-22-4	Silver	0.12	U	1	0.12	0.51	mg/Kg	05/20/25 12:15	05/21/25 19:36	6010D	SW3050
7440-23-5	Sodium	107		1	18.0	101	mg/Kg	05/20/25 12:15	05/21/25 19:36	6010D	SW3050
7440-28-0	Thallium	0.41	J	1	0.23	2.02	mg/Kg	05/20/25 12:15	05/21/25 19:36	6010D	SW3050
7440-62-2	Vanadium	16.6	*	1	0.25	2.02	mg/Kg	05/20/25 12:15	05/21/25 19:36	6010D	SW3050
7440-66-6	Zinc	17.4		1	0.23	2.02	mg/Kg	05/20/25 12:15	05/21/25 19:36	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:	05/15/25
Project:	South River WM Replacement	Date Received:	05/16/25
Client Sample ID:	TP-7	SDG No.:	Q2074
Lab Sample ID:	Q2074-02	Matrix:	SOIL
Level (low/med):	low	% Solid:	88.7

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	6120		1	0.85	5.08	mg/Kg	05/20/25 12:15	05/21/25 19:41	6010D	SW3050
7440-36-0	Antimony	0.22	UN	1	0.22	2.54	mg/Kg	05/20/25 12:15	05/21/25 19:41	6010D	SW3050
7440-38-2	Arsenic	2.20	*	1	0.19	1.02	mg/Kg	05/20/25 12:15	05/21/25 19:41	6010D	SW3050
7440-39-3	Barium	16.5		1	0.74	5.08	mg/Kg	05/20/25 12:15	05/21/25 19:41	6010D	SW3050
7440-41-7	Beryllium	0.45		1	0.025	0.31	mg/Kg	05/20/25 12:15	05/21/25 19:41	6010D	SW3050
7440-43-9	Cadmium	0.35		1	0.024	0.31	mg/Kg	05/20/25 12:15	05/21/25 19:41	6010D	SW3050
7440-70-2	Calcium	190		1	11.3	102	mg/Kg	05/20/25 12:15	05/21/25 19:41	6010D	SW3050
7440-47-3	Chromium	8.71	*	1	0.048	0.51	mg/Kg	05/20/25 12:15	05/21/25 19:41	6010D	SW3050
7440-48-4	Cobalt	4.61		1	0.10	1.52	mg/Kg	05/20/25 12:15	05/21/25 19:41	6010D	SW3050
7440-50-8	Copper	3.87		1	0.22	1.02	mg/Kg	05/20/25 12:15	05/21/25 19:41	6010D	SW3050
7439-89-6	Iron	12100	*	1	4.05	5.08	mg/Kg	05/20/25 12:15	05/21/25 19:41	6010D	SW3050
7439-92-1	Lead	3.49		1	0.13	0.61	mg/Kg	05/20/25 12:15	05/21/25 19:41	6010D	SW3050
7439-95-4	Magnesium	226		1	12.2	102	mg/Kg	05/20/25 12:15	05/21/25 19:41	6010D	SW3050
7439-96-5	Manganese	38.7		1	0.14	1.02	mg/Kg	05/20/25 12:15	05/21/25 19:41	6010D	SW3050
7439-97-6	Mercury	0.011	J	1	0.0090	0.015	mg/Kg	05/19/25 13:50	05/20/25 14:20	7471B	
7440-02-0	Nickel	4.00		1	0.13	2.03	mg/Kg	05/20/25 12:15	05/21/25 19:41	6010D	SW3050
7440-09-7	Potassium	144	N	1	28.1	102	mg/Kg	05/20/25 12:15	05/21/25 19:41	6010D	SW3050
7782-49-2	Selenium	0.26	U	1	0.26	1.02	mg/Kg	05/20/25 12:15	05/21/25 19:41	6010D	SW3050
7440-22-4	Silver	0.12	U	1	0.12	0.51	mg/Kg	05/20/25 12:15	05/21/25 19:41	6010D	SW3050
7440-23-5	Sodium	274		1	18.1	102	mg/Kg	05/20/25 12:15	05/21/25 19:41	6010D	SW3050
7440-28-0	Thallium	0.70	J	1	0.23	2.03	mg/Kg	05/20/25 12:15	05/21/25 19:41	6010D	SW3050
7440-62-2	Vanadium	11.4	*	1	0.25	2.03	mg/Kg	05/20/25 12:15	05/21/25 19:41	6010D	SW3050
7440-66-6	Zinc	10.4		1	0.23	2.03	mg/Kg	05/20/25 12:15	05/21/25 19:41	6010D	SW3050

Color Before:	Brown	Clarity Before:		Texture:	Medium
Color After:	Yellow	Clarity After:		Artifacts:	
Comments:	METALS-TAL				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = 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:	05/15/25
Project:	South River WM Replacement	Date Received:	05/16/25
Client Sample ID:	TP-15	SDG No.:	Q2074
Lab Sample ID:	Q2074-03	Matrix:	SOIL
Level (low/med):	low	% Solid:	87

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	5090		1	0.88	5.25	mg/Kg	05/20/25 12:15	05/21/25 19:45	6010D	SW3050
7440-36-0	Antimony	0.23	UN	1	0.23	2.62	mg/Kg	05/20/25 12:15	05/21/25 19:45	6010D	SW3050
7440-38-2	Arsenic	2.18	*	1	0.20	1.05	mg/Kg	05/20/25 12:15	05/21/25 19:45	6010D	SW3050
7440-39-3	Barium	26.4		1	0.77	5.25	mg/Kg	05/20/25 12:15	05/21/25 19:45	6010D	SW3050
7440-41-7	Beryllium	0.29	J	1	0.026	0.32	mg/Kg	05/20/25 12:15	05/21/25 19:45	6010D	SW3050
7440-43-9	Cadmium	0.21	J	1	0.025	0.32	mg/Kg	05/20/25 12:15	05/21/25 19:45	6010D	SW3050
7440-70-2	Calcium	314		1	11.7	105	mg/Kg	05/20/25 12:15	05/21/25 19:45	6010D	SW3050
7440-47-3	Chromium	8.23	*	1	0.049	0.53	mg/Kg	05/20/25 12:15	05/21/25 19:45	6010D	SW3050
7440-48-4	Cobalt	1.91		1	0.11	1.57	mg/Kg	05/20/25 12:15	05/21/25 19:45	6010D	SW3050
7440-50-8	Copper	6.10		1	0.23	1.05	mg/Kg	05/20/25 12:15	05/21/25 19:45	6010D	SW3050
7439-89-6	Iron	6820	*	1	4.19	5.25	mg/Kg	05/20/25 12:15	05/21/25 19:45	6010D	SW3050
7439-92-1	Lead	18.0		1	0.14	0.63	mg/Kg	05/20/25 12:15	05/21/25 19:45	6010D	SW3050
7439-95-4	Magnesium	326		1	12.6	105	mg/Kg	05/20/25 12:15	05/21/25 19:45	6010D	SW3050
7439-96-5	Manganese	28.7		1	0.15	1.05	mg/Kg	05/20/25 12:15	05/21/25 19:45	6010D	SW3050
7439-97-6	Mercury	0.057		1	0.0080	0.014	mg/Kg	05/19/25 13:50	05/20/25 14:22	7471B	
7440-02-0	Nickel	4.10		1	0.14	2.10	mg/Kg	05/20/25 12:15	05/21/25 19:45	6010D	SW3050
7440-09-7	Potassium	127	N	1	29.1	105	mg/Kg	05/20/25 12:15	05/21/25 19:45	6010D	SW3050
7782-49-2	Selenium	0.27	U	1	0.27	1.05	mg/Kg	05/20/25 12:15	05/21/25 19:45	6010D	SW3050
7440-22-4	Silver	0.13	U	1	0.13	0.53	mg/Kg	05/20/25 12:15	05/21/25 19:45	6010D	SW3050
7440-23-5	Sodium	300		1	18.7	105	mg/Kg	05/20/25 12:15	05/21/25 19:45	6010D	SW3050
7440-28-0	Thallium	0.28	J	1	0.24	2.10	mg/Kg	05/20/25 12:15	05/21/25 19:45	6010D	SW3050
7440-62-2	Vanadium	13.4	*	1	0.26	2.10	mg/Kg	05/20/25 12:15	05/21/25 19:45	6010D	SW3050
7440-66-6	Zinc	31.9		1	0.24	2.10	mg/Kg	05/20/25 12:15	05/21/25 19:45	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:	05/15/25
Project:	South River WM Replacement	Date Received:	05/16/25
Client Sample ID:	TP-20	SDG No.:	Q2074
Lab Sample ID:	Q2074-04	Matrix:	SOIL
Level (low/med):	low	% Solid:	84.3

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	6620		1	0.89	5.30	mg/Kg	05/20/25 12:15	05/21/25 19:49	6010D	SW3050
7440-36-0	Antimony	0.23	UN	1	0.23	2.65	mg/Kg	05/20/25 12:15	05/21/25 19:49	6010D	SW3050
7440-38-2	Arsenic	2.51	*	1	0.20	1.06	mg/Kg	05/20/25 12:15	05/21/25 19:49	6010D	SW3050
7440-39-3	Barium	21.3		1	0.77	5.30	mg/Kg	05/20/25 12:15	05/21/25 19:49	6010D	SW3050
7440-41-7	Beryllium	0.25	J	1	0.026	0.32	mg/Kg	05/20/25 12:15	05/21/25 19:49	6010D	SW3050
7440-43-9	Cadmium	0.096	J	1	0.025	0.32	mg/Kg	05/20/25 12:15	05/21/25 19:49	6010D	SW3050
7440-70-2	Calcium	244		1	11.8	106	mg/Kg	05/20/25 12:15	05/21/25 19:49	6010D	SW3050
7440-47-3	Chromium	9.72	*	1	0.050	0.53	mg/Kg	05/20/25 12:15	05/21/25 19:49	6010D	SW3050
7440-48-4	Cobalt	2.38		1	0.11	1.59	mg/Kg	05/20/25 12:15	05/21/25 19:49	6010D	SW3050
7440-50-8	Copper	3.83		1	0.23	1.06	mg/Kg	05/20/25 12:15	05/21/25 19:49	6010D	SW3050
7439-89-6	Iron	7000	*	1	4.23	5.30	mg/Kg	05/20/25 12:15	05/21/25 19:49	6010D	SW3050
7439-92-1	Lead	6.24		1	0.14	0.64	mg/Kg	05/20/25 12:15	05/21/25 19:49	6010D	SW3050
7439-95-4	Magnesium	592		1	12.7	106	mg/Kg	05/20/25 12:15	05/21/25 19:49	6010D	SW3050
7439-96-5	Manganese	21.1		1	0.15	1.06	mg/Kg	05/20/25 12:15	05/21/25 19:49	6010D	SW3050
7439-97-6	Mercury	0.033		1	0.0080	0.014	mg/Kg	05/19/25 13:50	05/20/25 14:24	7471B	
7440-02-0	Nickel	4.21		1	0.14	2.12	mg/Kg	05/20/25 12:15	05/21/25 19:49	6010D	SW3050
7440-09-7	Potassium	184	N	1	29.3	106	mg/Kg	05/20/25 12:15	05/21/25 19:49	6010D	SW3050
7782-49-2	Selenium	0.28	U	1	0.28	1.06	mg/Kg	05/20/25 12:15	05/21/25 19:49	6010D	SW3050
7440-22-4	Silver	0.13	U	1	0.13	0.53	mg/Kg	05/20/25 12:15	05/21/25 19:49	6010D	SW3050
7440-23-5	Sodium	532		1	18.9	106	mg/Kg	05/20/25 12:15	05/21/25 19:49	6010D	SW3050
7440-28-0	Thallium	0.24	U	1	0.24	2.12	mg/Kg	05/20/25 12:15	05/21/25 19:49	6010D	SW3050
7440-62-2	Vanadium	18.5	*	1	0.27	2.12	mg/Kg	05/20/25 12:15	05/21/25 19:49	6010D	SW3050
7440-66-6	Zinc	9.82		1	0.24	2.12	mg/Kg	05/20/25 12:15	05/21/25 19:49	6010D	SW3050

Color Before:	Brown	Clarity Before:		Texture:	Medium
Color After:	Yellow	Clarity After:		Artifacts:	
Comments:	METALS-TAL				

U = Not Detected
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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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Alliance TECHNICAL GROUP
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Report of Analysis

Client:	CDM Smith	Date Collected:	05/15/25
Project:	South River WM Replacement	Date Received:	05/16/25
Client Sample ID:	TP-38	SDG No.:	Q2074
Lab Sample ID:	Q2074-05	Matrix:	SOIL
Level (low/med):	low	% Solid:	81.9

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	663		1	0.94	5.58	mg/Kg	05/20/25 12:15	05/21/25 19:53	6010D	SW3050
7440-36-0	Antimony	0.25	UN	1	0.25	2.79	mg/Kg	05/20/25 12:15	05/21/25 19:53	6010D	SW3050
7440-38-2	Arsenic	1.77	*	1	0.21	1.12	mg/Kg	05/20/25 12:15	05/21/25 19:53	6010D	SW3050
7440-39-3	Barium	16.4		1	0.81	5.58	mg/Kg	05/20/25 12:15	05/21/25 19:53	6010D	SW3050
7440-41-7	Beryllium	0.12	J	1	0.028	0.34	mg/Kg	05/20/25 12:15	05/21/25 19:53	6010D	SW3050
7440-43-9	Cadmium	0.027	U	1	0.027	0.34	mg/Kg	05/20/25 12:15	05/21/25 19:53	6010D	SW3050
7440-70-2	Calcium	42.3	J	1	12.4	112	mg/Kg	05/20/25 12:15	05/21/25 19:53	6010D	SW3050
7440-47-3	Chromium	2.72	*	1	0.052	0.56	mg/Kg	05/20/25 12:15	05/21/25 19:53	6010D	SW3050
7440-48-4	Cobalt	0.48	J	1	0.11	1.67	mg/Kg	05/20/25 12:15	05/21/25 19:53	6010D	SW3050
7440-50-8	Copper	4.60		1	0.25	1.12	mg/Kg	05/20/25 12:15	05/21/25 19:53	6010D	SW3050
7439-89-6	Iron	5030	*	1	4.45	5.58	mg/Kg	05/20/25 12:15	05/21/25 19:53	6010D	SW3050
7439-92-1	Lead	1.44		1	0.14	0.67	mg/Kg	05/20/25 12:15	05/21/25 19:53	6010D	SW3050
7439-95-4	Magnesium	28.9	J	1	13.4	112	mg/Kg	05/20/25 12:15	05/21/25 19:53	6010D	SW3050
7439-96-5	Manganese	6.24		1	0.16	1.12	mg/Kg	05/20/25 12:15	05/21/25 19:53	6010D	SW3050
7439-97-6	Mercury	0.0090	U	1	0.0090	0.017	mg/Kg	05/19/25 13:50	05/20/25 14:27	7471B	
7440-02-0	Nickel	0.43	J	1	0.14	2.23	mg/Kg	05/20/25 12:15	05/21/25 19:53	6010D	SW3050
7440-09-7	Potassium	35.2	JN	1	30.9	112	mg/Kg	05/20/25 12:15	05/21/25 19:53	6010D	SW3050
7782-49-2	Selenium	0.29	U	1	0.29	1.12	mg/Kg	05/20/25 12:15	05/21/25 19:53	6010D	SW3050
7440-22-4	Silver	0.13	U	1	0.13	0.56	mg/Kg	05/20/25 12:15	05/21/25 19:53	6010D	SW3050
7440-23-5	Sodium	35.7	J	1	19.8	112	mg/Kg	05/20/25 12:15	05/21/25 19:53	6010D	SW3050
7440-28-0	Thallium	0.26	U	1	0.26	2.23	mg/Kg	05/20/25 12:15	05/21/25 19:53	6010D	SW3050
7440-62-2	Vanadium	6.23	*	1	0.28	2.23	mg/Kg	05/20/25 12:15	05/21/25 19:53	6010D	SW3050
7440-66-6	Zinc	2.74		1	0.26	2.23	mg/Kg	05/20/25 12:15	05/21/25 19:53	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
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OR = Over Range
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Alliance TECHNICAL GROUP
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Report of Analysis

Client:	CDM Smith	Date Collected:	05/15/25
Project:	South River WM Replacement	Date Received:	05/16/25
Client Sample ID:	TP-19	SDG No.:	Q2074
Lab Sample ID:	Q2074-06	Matrix:	SOIL
Level (low/med):	low	% Solid:	85.9

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	2270		1	0.82	4.89	mg/Kg	05/20/25 12:15	05/21/25 20:06	6010D	SW3050
7440-36-0	Antimony	0.22	UN	1	0.22	2.45	mg/Kg	05/20/25 12:15	05/21/25 20:06	6010D	SW3050
7440-38-2	Arsenic	4.36	*	1	0.19	0.98	mg/Kg	05/20/25 12:15	05/21/25 20:06	6010D	SW3050
7440-39-3	Barium	7.17		1	0.71	4.89	mg/Kg	05/20/25 12:15	05/21/25 20:06	6010D	SW3050
7440-41-7	Beryllium	0.53		1	0.024	0.29	mg/Kg	05/20/25 12:15	05/21/25 20:06	6010D	SW3050
7440-43-9	Cadmium	0.46		1	0.023	0.29	mg/Kg	05/20/25 12:15	05/21/25 20:06	6010D	SW3050
7440-70-2	Calcium	160		1	10.9	97.8	mg/Kg	05/20/25 12:15	05/21/25 20:06	6010D	SW3050
7440-47-3	Chromium	13.5	*	1	0.046	0.49	mg/Kg	05/20/25 12:15	05/21/25 20:06	6010D	SW3050
7440-48-4	Cobalt	1.95		1	0.098	1.47	mg/Kg	05/20/25 12:15	05/21/25 20:06	6010D	SW3050
7440-50-8	Copper	9.89		1	0.22	0.98	mg/Kg	05/20/25 12:15	05/21/25 20:06	6010D	SW3050
7439-89-6	Iron	25100	*	1	3.90	4.89	mg/Kg	05/20/25 12:15	05/21/25 20:06	6010D	SW3050
7439-92-1	Lead	10.5		1	0.13	0.59	mg/Kg	05/20/25 12:15	05/21/25 20:06	6010D	SW3050
7439-95-4	Magnesium	102		1	11.7	97.8	mg/Kg	05/20/25 12:15	05/21/25 20:06	6010D	SW3050
7439-96-5	Manganese	43.6		1	0.14	0.98	mg/Kg	05/20/25 12:15	05/21/25 20:06	6010D	SW3050
7439-97-6	Mercury	0.051		1	0.0090	0.015	mg/Kg	05/19/25 13:50	05/20/25 14:33	7471B	
7440-02-0	Nickel	2.42		1	0.13	1.96	mg/Kg	05/20/25 12:15	05/21/25 20:06	6010D	SW3050
7440-09-7	Potassium	143	N	1	27.1	97.8	mg/Kg	05/20/25 12:15	05/21/25 20:06	6010D	SW3050
7782-49-2	Selenium	0.25	U	1	0.25	0.98	mg/Kg	05/20/25 12:15	05/21/25 20:06	6010D	SW3050
7440-22-4	Silver	0.12	U	1	0.12	0.49	mg/Kg	05/20/25 12:15	05/21/25 20:06	6010D	SW3050
7440-23-5	Sodium	54.2	J	1	17.4	97.8	mg/Kg	05/20/25 12:15	05/21/25 20:06	6010D	SW3050
7440-28-0	Thallium	1.96		1	0.23	1.96	mg/Kg	05/20/25 12:15	05/21/25 20:06	6010D	SW3050
7440-62-2	Vanadium	20.4	*	1	0.25	1.96	mg/Kg	05/20/25 12:15	05/21/25 20:06	6010D	SW3050
7440-66-6	Zinc	35.3		1	0.23	1.96	mg/Kg	05/20/25 12:15	05/21/25 20:06	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
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Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
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Report of Analysis

Client:	CDM Smith	Date Collected:	05/15/25
Project:	South River WM Replacement	Date Received:	05/16/25
Client Sample ID:	TP-40	SDG No.:	Q2074
Lab Sample ID:	Q2074-07	Matrix:	SOIL
Level (low/med):	low	% Solid:	89.2

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	2050		1	0.88	5.21	mg/Kg	05/20/25 12:15	05/21/25 20:10	6010D	SW3050
7440-36-0	Antimony	0.23	UN	1	0.23	2.61	mg/Kg	05/20/25 12:15	05/21/25 20:10	6010D	SW3050
7440-38-2	Arsenic	2.26	*	1	0.20	1.04	mg/Kg	05/20/25 12:15	05/21/25 20:10	6010D	SW3050
7440-39-3	Barium	15.9		1	0.76	5.21	mg/Kg	05/20/25 12:15	05/21/25 20:10	6010D	SW3050
7440-41-7	Beryllium	0.18	J	1	0.026	0.31	mg/Kg	05/20/25 12:15	05/21/25 20:10	6010D	SW3050
7440-43-9	Cadmium	0.065	J	1	0.025	0.31	mg/Kg	05/20/25 12:15	05/21/25 20:10	6010D	SW3050
7440-70-2	Calcium	636		1	11.6	104	mg/Kg	05/20/25 12:15	05/21/25 20:10	6010D	SW3050
7440-47-3	Chromium	7.76	*	1	0.049	0.52	mg/Kg	05/20/25 12:15	05/21/25 20:10	6010D	SW3050
7440-48-4	Cobalt	0.65	J	1	0.10	1.56	mg/Kg	05/20/25 12:15	05/21/25 20:10	6010D	SW3050
7440-50-8	Copper	9.10		1	0.23	1.04	mg/Kg	05/20/25 12:15	05/21/25 20:10	6010D	SW3050
7439-89-6	Iron	7070	*	1	4.16	5.21	mg/Kg	05/20/25 12:15	05/21/25 20:10	6010D	SW3050
7439-92-1	Lead	13.3		1	0.14	0.63	mg/Kg	05/20/25 12:15	05/21/25 20:10	6010D	SW3050
7439-95-4	Magnesium	136		1	12.5	104	mg/Kg	05/20/25 12:15	05/21/25 20:10	6010D	SW3050
7439-96-5	Manganese	11.9		1	0.15	1.04	mg/Kg	05/20/25 12:15	05/21/25 20:10	6010D	SW3050
7439-97-6	Mercury	0.027		1	0.0070	0.013	mg/Kg	05/19/25 13:50	05/20/25 14:36	7471B	
7440-02-0	Nickel	1.09	J	1	0.14	2.09	mg/Kg	05/20/25 12:15	05/21/25 20:10	6010D	SW3050
7440-09-7	Potassium	180	N	1	28.9	104	mg/Kg	05/20/25 12:15	05/21/25 20:10	6010D	SW3050
7782-49-2	Selenium	0.27	U	1	0.27	1.04	mg/Kg	05/20/25 12:15	05/21/25 20:10	6010D	SW3050
7440-22-4	Silver	0.13	U	1	0.13	0.52	mg/Kg	05/20/25 12:15	05/21/25 20:10	6010D	SW3050
7440-23-5	Sodium	514		1	18.6	104	mg/Kg	05/20/25 12:15	05/21/25 20:10	6010D	SW3050
7440-28-0	Thallium	0.36	J	1	0.24	2.09	mg/Kg	05/20/25 12:15	05/21/25 20:10	6010D	SW3050
7440-62-2	Vanadium	13.8	*	1	0.26	2.09	mg/Kg	05/20/25 12:15	05/21/25 20:10	6010D	SW3050
7440-66-6	Zinc	22.0		1	0.24	2.09	mg/Kg	05/20/25 12:15	05/21/25 20:10	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
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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:	05/16/25
Project:	South River WM Replacement	Date Received:	05/16/25
Client Sample ID:	TP-18	SDG No.:	Q2074
Lab Sample ID:	Q2074-08	Matrix:	SOIL
Level (low/med):	low	% Solid:	78

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	4710		1	1.03	6.13	mg/Kg	05/20/25 12:15	05/21/25 20:14	6010D	SW3050
7440-36-0	Antimony	0.27	UN	1	0.27	3.07	mg/Kg	05/20/25 12:15	05/21/25 20:14	6010D	SW3050
7440-38-2	Arsenic	6.54	*	1	0.23	1.23	mg/Kg	05/20/25 12:15	05/21/25 20:14	6010D	SW3050
7440-39-3	Barium	18.5		1	0.90	6.13	mg/Kg	05/20/25 12:15	05/21/25 20:14	6010D	SW3050
7440-41-7	Beryllium	0.70		1	0.031	0.37	mg/Kg	05/20/25 12:15	05/21/25 20:14	6010D	SW3050
7440-43-9	Cadmium	0.26	J	1	0.029	0.37	mg/Kg	05/20/25 12:15	05/21/25 20:14	6010D	SW3050
7440-70-2	Calcium	447		1	13.6	123	mg/Kg	05/20/25 12:15	05/21/25 20:14	6010D	SW3050
7440-47-3	Chromium	18.2	*	1	0.058	0.61	mg/Kg	05/20/25 12:15	05/21/25 20:14	6010D	SW3050
7440-48-4	Cobalt	2.74		1	0.12	1.84	mg/Kg	05/20/25 12:15	05/21/25 20:14	6010D	SW3050
7440-50-8	Copper	14.2		1	0.27	1.23	mg/Kg	05/20/25 12:15	05/21/25 20:14	6010D	SW3050
7439-89-6	Iron	36100	*	1	4.90	6.13	mg/Kg	05/20/25 12:15	05/21/25 20:14	6010D	SW3050
7439-92-1	Lead	31.8		1	0.16	0.74	mg/Kg	05/20/25 12:15	05/21/25 20:14	6010D	SW3050
7439-95-4	Magnesium	112	J	1	14.7	123	mg/Kg	05/20/25 12:15	05/21/25 20:14	6010D	SW3050
7439-96-5	Manganese	24.7		1	0.17	1.23	mg/Kg	05/20/25 12:15	05/21/25 20:14	6010D	SW3050
7439-97-6	Mercury	0.030		1	0.0090	0.017	mg/Kg	05/19/25 13:50	05/20/25 14:38	7471B	
7440-02-0	Nickel	3.24		1	0.16	2.45	mg/Kg	05/20/25 12:15	05/21/25 20:14	6010D	SW3050
7440-09-7	Potassium	218	N	1	34.0	123	mg/Kg	05/20/25 12:15	05/21/25 20:14	6010D	SW3050
7782-49-2	Selenium	0.32	U	1	0.32	1.23	mg/Kg	05/20/25 12:15	05/21/25 20:14	6010D	SW3050
7440-22-4	Silver	0.15	U	1	0.15	0.61	mg/Kg	05/20/25 12:15	05/21/25 20:14	6010D	SW3050
7440-23-5	Sodium	141		1	21.8	123	mg/Kg	05/20/25 12:15	05/21/25 20:14	6010D	SW3050
7440-28-0	Thallium	2.76		1	0.28	2.45	mg/Kg	05/20/25 12:15	05/21/25 20:14	6010D	SW3050
7440-62-2	Vanadium	32.9	*	1	0.31	2.45	mg/Kg	05/20/25 12:15	05/21/25 20:14	6010D	SW3050
7440-66-6	Zinc	24.3		1	0.28	2.45	mg/Kg	05/20/25 12:15	05/21/25 20:14	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

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: CDM Smith **SDG No.:** Q2074

Contract: CAMP02 **Lab Code:** CHEM **Case No.:** Q2074 **SAS No.:** Q2074

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB12	Mercury	0.20	+/-0.20	U	0.20	CV	05/20/2025	13:00	LB135837

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: CDM Smith **SDG No.:** Q2074

Contract: CAMP02 **Lab Code:** CHEM **Case No.:** Q2074 **SAS No.:** Q2074

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB45	Mercury	0.20	+/-0.20	U	0.20	CV	05/20/2025	13:05	LB135837
CCB46	Mercury	0.20	+/-0.20	U	0.20	CV	05/20/2025	13:35	LB135837
CCB47	Mercury	0.20	+/-0.20	U	0.20	CV	05/20/2025	14:03	LB135837
CCB48	Mercury	0.20	+/-0.20	U	0.20	CV	05/20/2025	14:31	LB135837
CCB49	Mercury	0.20	+/-0.20	U	0.20	CV	05/20/2025	14:54	LB135837
CCB50	Mercury	0.20	+/-0.20	U	0.20	CV	05/20/2025	15:08	LB135837

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: CDM Smith **SDG No.:** Q2074

Contract: CAMP02 **Lab Code:** CHEM **Case No.:** Q2074 **SAS No.:** Q2074

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	05/21/2025	13:36	LB135868
	Antimony	50.0	+/-50.0	U	50.0	P	05/21/2025	13:36	LB135868
	Arsenic	20.0	+/-20.0	U	20.0	P	05/21/2025	13:36	LB135868
	Barium	100	+/-100	U	100	P	05/21/2025	13:36	LB135868
	Beryllium	6.00	+/-6.00	U	6.00	P	05/21/2025	13:36	LB135868
	Cadmium	6.00	+/-6.00	U	6.00	P	05/21/2025	13:36	LB135868
	Calcium	2000	+/-2000	U	2000	P	05/21/2025	13:36	LB135868
	Chromium	10.0	+/-10.0	U	10.0	P	05/21/2025	13:36	LB135868
	Cobalt	30.0	+/-30.0	U	30.0	P	05/21/2025	13:36	LB135868
	Copper	20.0	+/-20.0	U	20.0	P	05/21/2025	13:36	LB135868
	Iron	26.9	+/-100	J	100	P	05/21/2025	13:36	LB135868
	Lead	12.0	+/-12.0	U	12.0	P	05/21/2025	13:36	LB135868
	Magnesium	2000	+/-2000	U	2000	P	05/21/2025	13:36	LB135868
	Manganese	20.0	+/-20.0	U	20.0	P	05/21/2025	13:36	LB135868
	Nickel	40.0	+/-40.0	U	40.0	P	05/21/2025	13:36	LB135868
	Potassium	2000	+/-2000	U	2000	P	05/21/2025	13:36	LB135868
	Selenium	20.0	+/-20.0	U	20.0	P	05/21/2025	13:36	LB135868
	Silver	10.0	+/-10.0	U	10.0	P	05/21/2025	13:36	LB135868
	Sodium	2000	+/-2000	U	2000	P	05/21/2025	13:36	LB135868
	Thallium	40.0	+/-40.0	U	40.0	P	05/21/2025	13:36	LB135868
	Vanadium	40.0	+/-40.0	U	40.0	P	05/21/2025	13:36	LB135868
	Zinc	40.0	+/-40.0	U	40.0	P	05/21/2025	13:36	LB135868

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: CDM Smith **SDG No.:** Q2074

Contract: CAMP02 **Lab Code:** CHEM **Case No.:** Q2074 **SAS No.:** Q2074

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB01	Aluminum	15.5	+/-100	J	100	P	05/21/2025	14:13	LB135868
	Antimony	50.0	+/-50.0	U	50.0	P	05/21/2025	14:13	LB135868
	Arsenic	20.0	+/-20.0	U	20.0	P	05/21/2025	14:13	LB135868
	Barium	100	+/-100	U	100	P	05/21/2025	14:13	LB135868
	Beryllium	6.00	+/-6.00	U	6.00	P	05/21/2025	14:13	LB135868
	Cadmium	6.00	+/-6.00	U	6.00	P	05/21/2025	14:13	LB135868
	Calcium	2000	+/-2000	U	2000	P	05/21/2025	14:13	LB135868
	Chromium	10.0	+/-10.0	U	10.0	P	05/21/2025	14:13	LB135868
	Cobalt	30.0	+/-30.0	U	30.0	P	05/21/2025	14:13	LB135868
	Copper	20.0	+/-20.0	U	20.0	P	05/21/2025	14:13	LB135868
	Iron	100	+/-100	U	100	P	05/21/2025	14:13	LB135868
	Lead	12.0	+/-12.0	U	12.0	P	05/21/2025	14:13	LB135868
	Magnesium	2000	+/-2000	U	2000	P	05/21/2025	14:13	LB135868
	Manganese	20.0	+/-20.0	U	20.0	P	05/21/2025	14:13	LB135868
	Nickel	40.0	+/-40.0	U	40.0	P	05/21/2025	14:13	LB135868
	Potassium	2000	+/-2000	U	2000	P	05/21/2025	14:13	LB135868
	Selenium	20.0	+/-20.0	U	20.0	P	05/21/2025	14:13	LB135868
	Silver	10.0	+/-10.0	U	10.0	P	05/21/2025	14:13	LB135868
	Sodium	2000	+/-2000	U	2000	P	05/21/2025	14:13	LB135868
	Thallium	40.0	+/-40.0	U	40.0	P	05/21/2025	14:13	LB135868
	Vanadium	40.0	+/-40.0	U	40.0	P	05/21/2025	14:13	LB135868
	Zinc	40.0	+/-40.0	U	40.0	P	05/21/2025	14:13	LB135868
CCB02	Aluminum	100	+/-100	U	100	P	05/21/2025	15:04	LB135868
	Antimony	50.0	+/-50.0	U	50.0	P	05/21/2025	15:04	LB135868
	Arsenic	20.0	+/-20.0	U	20.0	P	05/21/2025	15:04	LB135868
	Barium	100	+/-100	U	100	P	05/21/2025	15:04	LB135868
	Beryllium	6.00	+/-6.00	U	6.00	P	05/21/2025	15:04	LB135868
	Cadmium	6.00	+/-6.00	U	6.00	P	05/21/2025	15:04	LB135868
	Calcium	2000	+/-2000	U	2000	P	05/21/2025	15:04	LB135868
	Chromium	10.0	+/-10.0	U	10.0	P	05/21/2025	15:04	LB135868
	Cobalt	30.0	+/-30.0	U	30.0	P	05/21/2025	15:04	LB135868
	Copper	20.0	+/-20.0	U	20.0	P	05/21/2025	15:04	LB135868
	Iron	100	+/-100	U	100	P	05/21/2025	15:04	LB135868
	Lead	12.0	+/-12.0	U	12.0	P	05/21/2025	15:04	LB135868
	Magnesium	2000	+/-2000	U	2000	P	05/21/2025	15:04	LB135868
	Manganese	20.0	+/-20.0	U	20.0	P	05/21/2025	15:04	LB135868
	Nickel	40.0	+/-40.0	U	40.0	P	05/21/2025	15:04	LB135868
	Potassium	2000	+/-2000	U	2000	P	05/21/2025	15:04	LB135868
	Selenium	20.0	+/-20.0	U	20.0	P	05/21/2025	15:04	LB135868

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: CDM Smith **SDG No.:** Q2074

Contract: CAMP02 **Lab Code:** CHEM **Case No.:** Q2074 **SAS No.:** Q2074

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	05/21/2025	15:04	LB135868
	Sodium	2000	+/-2000	U	2000	P	05/21/2025	15:04	LB135868
	Thallium	40.0	+/-40.0	U	40.0	P	05/21/2025	15:04	LB135868
	Vanadium	40.0	+/-40.0	U	40.0	P	05/21/2025	15:04	LB135868
	Zinc	40.0	+/-40.0	U	40.0	P	05/21/2025	15:04	LB135868
CCB03	Aluminum	100	+/-100	U	100	P	05/21/2025	16:25	LB135868
	Antimony	50.0	+/-50.0	U	50.0	P	05/21/2025	16:25	LB135868
	Arsenic	20.0	+/-20.0	U	20.0	P	05/21/2025	16:25	LB135868
	Barium	100	+/-100	U	100	P	05/21/2025	16:25	LB135868
	Beryllium	6.00	+/-6.00	U	6.00	P	05/21/2025	16:25	LB135868
	Cadmium	6.00	+/-6.00	U	6.00	P	05/21/2025	16:25	LB135868
	Calcium	2000	+/-2000	U	2000	P	05/21/2025	16:25	LB135868
	Chromium	10.0	+/-10.0	U	10.0	P	05/21/2025	16:25	LB135868
	Cobalt	30.0	+/-30.0	U	30.0	P	05/21/2025	16:25	LB135868
	Copper	20.0	+/-20.0	U	20.0	P	05/21/2025	16:25	LB135868
	Iron	100	+/-100	U	100	P	05/21/2025	16:25	LB135868
	Lead	12.0	+/-12.0	U	12.0	P	05/21/2025	16:25	LB135868
	Magnesium	2000	+/-2000	U	2000	P	05/21/2025	16:25	LB135868
	Manganese	20.0	+/-20.0	U	20.0	P	05/21/2025	16:25	LB135868
	Nickel	40.0	+/-40.0	U	40.0	P	05/21/2025	16:25	LB135868
	Potassium	2000	+/-2000	U	2000	P	05/21/2025	16:25	LB135868
	Selenium	20.0	+/-20.0	U	20.0	P	05/21/2025	16:25	LB135868
	Silver	10.0	+/-10.0	U	10.0	P	05/21/2025	16:25	LB135868
	Sodium	2000	+/-2000	U	2000	P	05/21/2025	16:25	LB135868
	Thallium	40.0	+/-40.0	U	40.0	P	05/21/2025	16:25	LB135868
	Vanadium	40.0	+/-40.0	U	40.0	P	05/21/2025	16:25	LB135868
	Zinc	40.0	+/-40.0	U	40.0	P	05/21/2025	16:25	LB135868
CCB04	Aluminum	13.8	+/-100	J	100	P	05/21/2025	17:32	LB135868
	Antimony	50.0	+/-50.0	U	50.0	P	05/21/2025	17:32	LB135868
	Arsenic	20.0	+/-20.0	U	20.0	P	05/21/2025	17:32	LB135868
	Barium	100	+/-100	U	100	P	05/21/2025	17:32	LB135868
	Beryllium	6.00	+/-6.00	U	6.00	P	05/21/2025	17:32	LB135868
	Cadmium	6.00	+/-6.00	U	6.00	P	05/21/2025	17:32	LB135868
	Calcium	2000	+/-2000	U	2000	P	05/21/2025	17:32	LB135868
	Chromium	10.0	+/-10.0	U	10.0	P	05/21/2025	17:32	LB135868
	Cobalt	30.0	+/-30.0	U	30.0	P	05/21/2025	17:32	LB135868
	Copper	20.0	+/-20.0	U	20.0	P	05/21/2025	17:32	LB135868
	Iron	100	+/-100	U	100	P	05/21/2025	17:32	LB135868
	Lead	12.0	+/-12.0	U	12.0	P	05/21/2025	17:32	LB135868

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: CDM Smith **SDG No.:** Q2074

Contract: CAMP02 **Lab Code:** CHEM **Case No.:** Q2074 **SAS No.:** Q2074

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	05/21/2025	17:32	LB135868
	Manganese	20.0	+/-20.0	U	20.0	P	05/21/2025	17:32	LB135868
	Nickel	40.0	+/-40.0	U	40.0	P	05/21/2025	17:32	LB135868
	Potassium	2000	+/-2000	U	2000	P	05/21/2025	17:32	LB135868
	Selenium	20.0	+/-20.0	U	20.0	P	05/21/2025	17:32	LB135868
	Silver	10.0	+/-10.0	U	10.0	P	05/21/2025	17:32	LB135868
	Sodium	2000	+/-2000	U	2000	P	05/21/2025	17:32	LB135868
	Thallium	40.0	+/-40.0	U	40.0	P	05/21/2025	17:32	LB135868
	Vanadium	40.0	+/-40.0	U	40.0	P	05/21/2025	17:32	LB135868
	Zinc	40.0	+/-40.0	U	40.0	P	05/21/2025	17:32	LB135868
CCB05	Aluminum	100	+/-100	U	100	P	05/21/2025	18:20	LB135868
	Antimony	50.0	+/-50.0	U	50.0	P	05/21/2025	18:20	LB135868
	Arsenic	20.0	+/-20.0	U	20.0	P	05/21/2025	18:20	LB135868
	Barium	100	+/-100	U	100	P	05/21/2025	18:20	LB135868
	Beryllium	6.00	+/-6.00	U	6.00	P	05/21/2025	18:20	LB135868
	Cadmium	6.00	+/-6.00	U	6.00	P	05/21/2025	18:20	LB135868
	Calcium	2000	+/-2000	U	2000	P	05/21/2025	18:20	LB135868
	Chromium	10.0	+/-10.0	U	10.0	P	05/21/2025	18:20	LB135868
	Cobalt	30.0	+/-30.0	U	30.0	P	05/21/2025	18:20	LB135868
	Copper	20.0	+/-20.0	U	20.0	P	05/21/2025	18:20	LB135868
	Iron	100	+/-100	U	100	P	05/21/2025	18:20	LB135868
	Lead	12.0	+/-12.0	U	12.0	P	05/21/2025	18:20	LB135868
	Magnesium	2000	+/-2000	U	2000	P	05/21/2025	18:20	LB135868
	Manganese	20.0	+/-20.0	U	20.0	P	05/21/2025	18:20	LB135868
	Nickel	40.0	+/-40.0	U	40.0	P	05/21/2025	18:20	LB135868
	Potassium	2000	+/-2000	U	2000	P	05/21/2025	18:20	LB135868
	Selenium	20.0	+/-20.0	U	20.0	P	05/21/2025	18:20	LB135868
	Silver	10.0	+/-10.0	U	10.0	P	05/21/2025	18:20	LB135868
	Sodium	2000	+/-2000	U	2000	P	05/21/2025	18:20	LB135868
	Thallium	40.0	+/-40.0	U	40.0	P	05/21/2025	18:20	LB135868
	Vanadium	40.0	+/-40.0	U	40.0	P	05/21/2025	18:20	LB135868
	Zinc	40.0	+/-40.0	U	40.0	P	05/21/2025	18:20	LB135868
CCB06	Aluminum	100	+/-100	U	100	P	05/21/2025	19:16	LB135868
	Antimony	50.0	+/-50.0	U	50.0	P	05/21/2025	19:16	LB135868
	Arsenic	20.0	+/-20.0	U	20.0	P	05/21/2025	19:16	LB135868
	Barium	100	+/-100	U	100	P	05/21/2025	19:16	LB135868
	Beryllium	6.00	+/-6.00	U	6.00	P	05/21/2025	19:16	LB135868
	Cadmium	6.00	+/-6.00	U	6.00	P	05/21/2025	19:16	LB135868
	Calcium	2000	+/-2000	U	2000	P	05/21/2025	19:16	LB135868

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: CDM Smith **SDG No.:** Q2074

Contract: CAMP02 **Lab Code:** CHEM **Case No.:** Q2074 **SAS No.:** Q2074

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	05/21/2025	19:16	LB135868
	Cobalt	30.0	+/-30.0	U	30.0	P	05/21/2025	19:16	LB135868
	Copper	20.0	+/-20.0	U	20.0	P	05/21/2025	19:16	LB135868
	Iron	100	+/-100	U	100	P	05/21/2025	19:16	LB135868
	Lead	12.0	+/-12.0	U	12.0	P	05/21/2025	19:16	LB135868
	Magnesium	2000	+/-2000	U	2000	P	05/21/2025	19:16	LB135868
	Manganese	20.0	+/-20.0	U	20.0	P	05/21/2025	19:16	LB135868
	Nickel	40.0	+/-40.0	U	40.0	P	05/21/2025	19:16	LB135868
	Potassium	2000	+/-2000	U	2000	P	05/21/2025	19:16	LB135868
	Selenium	20.0	+/-20.0	U	20.0	P	05/21/2025	19:16	LB135868
	Silver	10.0	+/-10.0	U	10.0	P	05/21/2025	19:16	LB135868
	Sodium	2000	+/-2000	U	2000	P	05/21/2025	19:16	LB135868
	Thallium	40.0	+/-40.0	U	40.0	P	05/21/2025	19:16	LB135868
	Vanadium	40.0	+/-40.0	U	40.0	P	05/21/2025	19:16	LB135868
	Zinc	40.0	+/-40.0	U	40.0	P	05/21/2025	19:16	LB135868
CCB07	Aluminum	100	+/-100	U	100	P	05/21/2025	20:02	LB135868
	Antimony	50.0	+/-50.0	U	50.0	P	05/21/2025	20:02	LB135868
	Arsenic	20.0	+/-20.0	U	20.0	P	05/21/2025	20:02	LB135868
	Barium	100	+/-100	U	100	P	05/21/2025	20:02	LB135868
	Beryllium	6.00	+/-6.00	U	6.00	P	05/21/2025	20:02	LB135868
	Cadmium	6.00	+/-6.00	U	6.00	P	05/21/2025	20:02	LB135868
	Calcium	2000	+/-2000	U	2000	P	05/21/2025	20:02	LB135868
	Chromium	10.0	+/-10.0	U	10.0	P	05/21/2025	20:02	LB135868
	Cobalt	30.0	+/-30.0	U	30.0	P	05/21/2025	20:02	LB135868
	Copper	20.0	+/-20.0	U	20.0	P	05/21/2025	20:02	LB135868
	Iron	100	+/-100	U	100	P	05/21/2025	20:02	LB135868
	Lead	12.0	+/-12.0	U	12.0	P	05/21/2025	20:02	LB135868
	Magnesium	2000	+/-2000	U	2000	P	05/21/2025	20:02	LB135868
	Manganese	20.0	+/-20.0	U	20.0	P	05/21/2025	20:02	LB135868
	Nickel	40.0	+/-40.0	U	40.0	P	05/21/2025	20:02	LB135868
	Potassium	2000	+/-2000	U	2000	P	05/21/2025	20:02	LB135868
	Selenium	20.0	+/-20.0	U	20.0	P	05/21/2025	20:02	LB135868
	Silver	10.0	+/-10.0	U	10.0	P	05/21/2025	20:02	LB135868
	Sodium	2000	+/-2000	U	2000	P	05/21/2025	20:02	LB135868
	Thallium	40.0	+/-40.0	U	40.0	P	05/21/2025	20:02	LB135868
	Vanadium	40.0	+/-40.0	U	40.0	P	05/21/2025	20:02	LB135868
	Zinc	40.0	+/-40.0	U	40.0	P	05/21/2025	20:02	LB135868
CCB08	Aluminum	100	+/-100	U	100	P	05/21/2025	20:48	LB135868
	Antimony	50.0	+/-50.0	U	50.0	P	05/21/2025	20:48	LB135868

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: CDM Smith **SDG No.:** Q2074

Contract: CAMP02 **Lab Code:** CHEM **Case No.:** Q2074 **SAS No.:** Q2074

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB08	Arsenic	20.0	+/-20.0	U	20.0	P	05/21/2025	20:48	LB135868
	Barium	100	+/-100	U	100	P	05/21/2025	20:48	LB135868
	Beryllium	6.00	+/-6.00	U	6.00	P	05/21/2025	20:48	LB135868
	Cadmium	6.00	+/-6.00	U	6.00	P	05/21/2025	20:48	LB135868
	Calcium	2000	+/-2000	U	2000	P	05/21/2025	20:48	LB135868
	Chromium	10.0	+/-10.0	U	10.0	P	05/21/2025	20:48	LB135868
	Cobalt	30.0	+/-30.0	U	30.0	P	05/21/2025	20:48	LB135868
	Copper	20.0	+/-20.0	U	20.0	P	05/21/2025	20:48	LB135868
	Iron	100	+/-100	U	100	P	05/21/2025	20:48	LB135868
	Lead	12.0	+/-12.0	U	12.0	P	05/21/2025	20:48	LB135868
	Magnesium	2000	+/-2000	U	2000	P	05/21/2025	20:48	LB135868
	Manganese	20.0	+/-20.0	U	20.0	P	05/21/2025	20:48	LB135868
	Nickel	40.0	+/-40.0	U	40.0	P	05/21/2025	20:48	LB135868
	Potassium	2000	+/-2000	U	2000	P	05/21/2025	20:48	LB135868
	Selenium	20.0	+/-20.0	U	20.0	P	05/21/2025	20:48	LB135868
	Silver	10.0	+/-10.0	U	10.0	P	05/21/2025	20:48	LB135868
	Sodium	2000	+/-2000	U	2000	P	05/21/2025	20:48	LB135868
	Thallium	40.0	+/-40.0	U	40.0	P	05/21/2025	20:48	LB135868
	Vanadium	40.0	+/-40.0	U	40.0	P	05/21/2025	20:48	LB135868
	Zinc	40.0	+/-40.0	U	40.0	P	05/21/2025	20:48	LB135868
CCB09	Aluminum	100	+/-100	U	100	P	05/21/2025	21:34	LB135868
	Antimony	50.0	+/-50.0	U	50.0	P	05/21/2025	21:34	LB135868
	Arsenic	20.0	+/-20.0	U	20.0	P	05/21/2025	21:34	LB135868
	Barium	100	+/-100	U	100	P	05/21/2025	21:34	LB135868
	Beryllium	6.00	+/-6.00	U	6.00	P	05/21/2025	21:34	LB135868
	Cadmium	6.00	+/-6.00	U	6.00	P	05/21/2025	21:34	LB135868
	Calcium	2000	+/-2000	U	2000	P	05/21/2025	21:34	LB135868
	Chromium	10.0	+/-10.0	U	10.0	P	05/21/2025	21:34	LB135868
	Cobalt	30.0	+/-30.0	U	30.0	P	05/21/2025	21:34	LB135868
	Copper	20.0	+/-20.0	U	20.0	P	05/21/2025	21:34	LB135868
	Iron	100	+/-100	U	100	P	05/21/2025	21:34	LB135868
	Lead	12.0	+/-12.0	U	12.0	P	05/21/2025	21:34	LB135868
	Magnesium	2000	+/-2000	U	2000	P	05/21/2025	21:34	LB135868
	Manganese	20.0	+/-20.0	U	20.0	P	05/21/2025	21:34	LB135868
	Nickel	40.0	+/-40.0	U	40.0	P	05/21/2025	21:34	LB135868
	Potassium	2000	+/-2000	U	2000	P	05/21/2025	21:34	LB135868
	Selenium	20.0	+/-20.0	U	20.0	P	05/21/2025	21:34	LB135868
	Silver	10.0	+/-10.0	U	10.0	P	05/21/2025	21:34	LB135868
	Sodium	2000	+/-2000	U	2000	P	05/21/2025	21:34	LB135868

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: CDM Smith **SDG No.:** Q2074

Contract: CAMP02 **Lab Code:** CHEM **Case No.:** Q2074 **SAS No.:** Q2074

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB09	Thallium	40.0	+/-40.0	U	40.0	P	05/21/2025	21:34	LB135868
	Vanadium	40.0	+/-40.0	U	40.0	P	05/21/2025	21:34	LB135868
	Zinc	40.0	+/-40.0	U	40.0	P	05/21/2025	21:34	LB135868
CCB10	Aluminum	100	+/-100	U	100	P	05/21/2025	21:54	LB135868
	Antimony	50.0	+/-50.0	U	50.0	P	05/21/2025	21:54	LB135868
	Arsenic	20.0	+/-20.0	U	20.0	P	05/21/2025	21:54	LB135868
	Barium	100	+/-100	U	100	P	05/21/2025	21:54	LB135868
	Beryllium	6.00	+/-6.00	U	6.00	P	05/21/2025	21:54	LB135868
	Cadmium	6.00	+/-6.00	U	6.00	P	05/21/2025	21:54	LB135868
	Calcium	2000	+/-2000	U	2000	P	05/21/2025	21:54	LB135868
	Chromium	10.0	+/-10.0	U	10.0	P	05/21/2025	21:54	LB135868
	Cobalt	30.0	+/-30.0	U	30.0	P	05/21/2025	21:54	LB135868
	Copper	20.0	+/-20.0	U	20.0	P	05/21/2025	21:54	LB135868
	Iron	100	+/-100	U	100	P	05/21/2025	21:54	LB135868
	Lead	12.0	+/-12.0	U	12.0	P	05/21/2025	21:54	LB135868
	Magnesium	2000	+/-2000	U	2000	P	05/21/2025	21:54	LB135868
	Manganese	20.0	+/-20.0	U	20.0	P	05/21/2025	21:54	LB135868
	Nickel	40.0	+/-40.0	U	40.0	P	05/21/2025	21:54	LB135868
	Potassium	2000	+/-2000	U	2000	P	05/21/2025	21:54	LB135868
	Selenium	20.0	+/-20.0	U	20.0	P	05/21/2025	21:54	LB135868
	Silver	10.0	+/-10.0	U	10.0	P	05/21/2025	21:54	LB135868
	Sodium	2000	+/-2000	U	2000	P	05/21/2025	21:54	LB135868
	Thallium	40.0	+/-40.0	U	40.0	P	05/21/2025	21:54	LB135868
	Vanadium	40.0	+/-40.0	U	40.0	P	05/21/2025	21:54	LB135868
	Zinc	40.0	+/-40.0	U	40.0	P	05/21/2025	21:54	LB135868

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: CDM Smith **SDG No.:** Q2074

Contract: CAMP02 **Lab Code:** CHEM **Case No.:** Q2074 **SAS No.:** Q2074

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	05/22/2025	15:20	LB135892
	Antimony	50.0	+/-50.0	U	50.0	P	05/22/2025	15:20	LB135892
	Arsenic	20.0	+/-20.0	U	20.0	P	05/22/2025	15:20	LB135892
	Barium	100	+/-100	U	100	P	05/22/2025	15:20	LB135892
	Beryllium	6.00	+/-6.00	U	6.00	P	05/22/2025	15:20	LB135892
	Cadmium	6.00	+/-6.00	U	6.00	P	05/22/2025	15:20	LB135892
	Calcium	2000	+/-2000	U	2000	P	05/22/2025	15:20	LB135892
	Chromium	10.0	+/-10.0	U	10.0	P	05/22/2025	15:20	LB135892
	Cobalt	30.0	+/-30.0	U	30.0	P	05/22/2025	15:20	LB135892
	Copper	20.0	+/-20.0	U	20.0	P	05/22/2025	15:20	LB135892
	Iron	100	+/-100	U	100	P	05/22/2025	15:20	LB135892
	Lead	12.0	+/-12.0	U	12.0	P	05/22/2025	15:20	LB135892
	Magnesium	2000	+/-2000	U	2000	P	05/22/2025	15:20	LB135892
	Manganese	20.0	+/-20.0	U	20.0	P	05/22/2025	15:20	LB135892
	Nickel	40.0	+/-40.0	U	40.0	P	05/22/2025	15:20	LB135892
	Potassium	2000	+/-2000	U	2000	P	05/22/2025	15:20	LB135892
	Selenium	20.0	+/-20.0	U	20.0	P	05/22/2025	15:20	LB135892
	Silver	10.0	+/-10.0	U	10.0	P	05/22/2025	15:20	LB135892
	Sodium	2000	+/-2000	U	2000	P	05/22/2025	15:20	LB135892
	Thallium	40.0	+/-40.0	U	40.0	P	05/22/2025	15:20	LB135892
	Vanadium	40.0	+/-40.0	U	40.0	P	05/22/2025	15:20	LB135892
	Zinc	40.0	+/-40.0	U	40.0	P	05/22/2025	15:20	LB135892

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: CDM Smith **SDG No.:** Q2074

Contract: CAMP02 **Lab Code:** CHEM **Case No.:** Q2074 **SAS No.:** Q2074

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	05/22/2025	15:55	LB135892
	Antimony	50.0	+/-50.0	U	50.0	P	05/22/2025	15:55	LB135892
	Arsenic	20.0	+/-20.0	U	20.0	P	05/22/2025	15:55	LB135892
	Barium	100	+/-100	U	100	P	05/22/2025	15:55	LB135892
	Beryllium	6.00	+/-6.00	U	6.00	P	05/22/2025	15:55	LB135892
	Cadmium	6.00	+/-6.00	U	6.00	P	05/22/2025	15:55	LB135892
	Calcium	2000	+/-2000	U	2000	P	05/22/2025	15:55	LB135892
	Chromium	10.0	+/-10.0	U	10.0	P	05/22/2025	15:55	LB135892
	Cobalt	30.0	+/-30.0	U	30.0	P	05/22/2025	15:55	LB135892
	Copper	20.0	+/-20.0	U	20.0	P	05/22/2025	15:55	LB135892
	Iron	100	+/-100	U	100	P	05/22/2025	15:55	LB135892
	Lead	12.0	+/-12.0	U	12.0	P	05/22/2025	15:55	LB135892
	Magnesium	2000	+/-2000	U	2000	P	05/22/2025	15:55	LB135892
	Manganese	20.0	+/-20.0	U	20.0	P	05/22/2025	15:55	LB135892
	Nickel	40.0	+/-40.0	U	40.0	P	05/22/2025	15:55	LB135892
	Potassium	2000	+/-2000	U	2000	P	05/22/2025	15:55	LB135892
	Selenium	20.0	+/-20.0	U	20.0	P	05/22/2025	15:55	LB135892
	Silver	10.0	+/-10.0	U	10.0	P	05/22/2025	15:55	LB135892
	Sodium	2000	+/-2000	U	2000	P	05/22/2025	15:55	LB135892
	Thallium	40.0	+/-40.0	U	40.0	P	05/22/2025	15:55	LB135892
	Vanadium	40.0	+/-40.0	U	40.0	P	05/22/2025	15:55	LB135892
	Zinc	40.0	+/-40.0	U	40.0	P	05/22/2025	15:55	LB135892
CCB02	Aluminum	100	+/-100	U	100	P	05/22/2025	16:43	LB135892
	Antimony	50.0	+/-50.0	U	50.0	P	05/22/2025	16:43	LB135892
	Arsenic	20.0	+/-20.0	U	20.0	P	05/22/2025	16:43	LB135892
	Barium	100	+/-100	U	100	P	05/22/2025	16:43	LB135892
	Beryllium	6.00	+/-6.00	U	6.00	P	05/22/2025	16:43	LB135892
	Cadmium	6.00	+/-6.00	U	6.00	P	05/22/2025	16:43	LB135892
	Calcium	2000	+/-2000	U	2000	P	05/22/2025	16:43	LB135892
	Chromium	10.0	+/-10.0	U	10.0	P	05/22/2025	16:43	LB135892
	Cobalt	30.0	+/-30.0	U	30.0	P	05/22/2025	16:43	LB135892
	Copper	20.0	+/-20.0	U	20.0	P	05/22/2025	16:43	LB135892
	Iron	100	+/-100	U	100	P	05/22/2025	16:43	LB135892
	Lead	12.0	+/-12.0	U	12.0	P	05/22/2025	16:43	LB135892
	Magnesium	2000	+/-2000	U	2000	P	05/22/2025	16:43	LB135892
	Manganese	20.0	+/-20.0	U	20.0	P	05/22/2025	16:43	LB135892
	Nickel	40.0	+/-40.0	U	40.0	P	05/22/2025	16:43	LB135892
	Potassium	2000	+/-2000	U	2000	P	05/22/2025	16:43	LB135892
	Selenium	20.0	+/-20.0	U	20.0	P	05/22/2025	16:43	LB135892

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: CDM Smith **SDG No.:** Q2074

Contract: CAMP02 **Lab Code:** CHEM **Case No.:** Q2074 **SAS No.:** Q2074

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	05/22/2025	16:43	LB135892
	Sodium	2000	+/-2000	U	2000	P	05/22/2025	16:43	LB135892
	Thallium	40.0	+/-40.0	U	40.0	P	05/22/2025	16:43	LB135892
	Vanadium	40.0	+/-40.0	U	40.0	P	05/22/2025	16:43	LB135892
	Zinc	40.0	+/-40.0	U	40.0	P	05/22/2025	16:43	LB135892
CCB03	Aluminum	100	+/-100	U	100	P	05/22/2025	17:32	LB135892
	Antimony	50.0	+/-50.0	U	50.0	P	05/22/2025	17:32	LB135892
	Arsenic	20.0	+/-20.0	U	20.0	P	05/22/2025	17:32	LB135892
	Barium	100	+/-100	U	100	P	05/22/2025	17:32	LB135892
	Beryllium	6.00	+/-6.00	U	6.00	P	05/22/2025	17:32	LB135892
	Cadmium	6.00	+/-6.00	U	6.00	P	05/22/2025	17:32	LB135892
	Calcium	2000	+/-2000	U	2000	P	05/22/2025	17:32	LB135892
	Chromium	10.0	+/-10.0	U	10.0	P	05/22/2025	17:32	LB135892
	Cobalt	30.0	+/-30.0	U	30.0	P	05/22/2025	17:32	LB135892
	Copper	20.0	+/-20.0	U	20.0	P	05/22/2025	17:32	LB135892
	Iron	100	+/-100	U	100	P	05/22/2025	17:32	LB135892
	Lead	12.0	+/-12.0	U	12.0	P	05/22/2025	17:32	LB135892
	Magnesium	2000	+/-2000	U	2000	P	05/22/2025	17:32	LB135892
	Manganese	20.0	+/-20.0	U	20.0	P	05/22/2025	17:32	LB135892
	Nickel	40.0	+/-40.0	U	40.0	P	05/22/2025	17:32	LB135892
	Potassium	2000	+/-2000	U	2000	P	05/22/2025	17:32	LB135892
	Selenium	20.0	+/-20.0	U	20.0	P	05/22/2025	17:32	LB135892
	Silver	10.0	+/-10.0	U	10.0	P	05/22/2025	17:32	LB135892
	Sodium	2000	+/-2000	U	2000	P	05/22/2025	17:32	LB135892
	Thallium	40.0	+/-40.0	U	40.0	P	05/22/2025	17:32	LB135892
	Vanadium	40.0	+/-40.0	U	40.0	P	05/22/2025	17:32	LB135892
	Zinc	40.0	+/-40.0	U	40.0	P	05/22/2025	17:32	LB135892
CCB04	Aluminum	100	+/-100	U	100	P	05/22/2025	19:12	LB135892
	Antimony	50.0	+/-50.0	U	50.0	P	05/22/2025	19:12	LB135892
	Arsenic	20.0	+/-20.0	U	20.0	P	05/22/2025	19:12	LB135892
	Barium	100	+/-100	U	100	P	05/22/2025	19:12	LB135892
	Beryllium	6.00	+/-6.00	U	6.00	P	05/22/2025	19:12	LB135892
	Cadmium	6.00	+/-6.00	U	6.00	P	05/22/2025	19:12	LB135892
	Calcium	2000	+/-2000	U	2000	P	05/22/2025	19:12	LB135892
	Chromium	10.0	+/-10.0	U	10.0	P	05/22/2025	19:12	LB135892
	Cobalt	30.0	+/-30.0	U	30.0	P	05/22/2025	19:12	LB135892
	Copper	20.0	+/-20.0	U	20.0	P	05/22/2025	19:12	LB135892
	Iron	100	+/-100	U	100	P	05/22/2025	19:12	LB135892
	Lead	12.0	+/-12.0	U	12.0	P	05/22/2025	19:12	LB135892

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Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: CDM Smith **SDG No.:** Q2074

Contract: CAMP02 **Lab Code:** CHEM **Case No.:** Q2074 **SAS No.:** Q2074

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	05/22/2025	19:12	LB135892
	Manganese	20.0	+/-20.0	U	20.0	P	05/22/2025	19:12	LB135892
	Nickel	40.0	+/-40.0	U	40.0	P	05/22/2025	19:12	LB135892
	Potassium	2000	+/-2000	U	2000	P	05/22/2025	19:12	LB135892
	Selenium	20.0	+/-20.0	U	20.0	P	05/22/2025	19:12	LB135892
	Silver	10.0	+/-10.0	U	10.0	P	05/22/2025	19:12	LB135892
	Sodium	2000	+/-2000	U	2000	P	05/22/2025	19:12	LB135892
	Thallium	40.0	+/-40.0	U	40.0	P	05/22/2025	19:12	LB135892
	Vanadium	40.0	+/-40.0	U	40.0	P	05/22/2025	19:12	LB135892
	Zinc	40.0	+/-40.0	U	40.0	P	05/22/2025	19:12	LB135892

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Metals
- 3b -
PREPARATION BLANK SUMMARY

Client: CDM Smith **SDG No.:** Q2074

Instrument: CV1

Sample ID	Analyte	Result (mg/Kg)	Acceptance Limit	Conc Qual	CRQL mg/Kg	M	Analysis Date	Analysis Time	Run
PB168090BL		**SOLID**		**Batch Number:**	**PB168090**		**Prep Date:**	**05/19/2025**	
	Mercury	0.013	<0.013	U	0.013	CV	05/20/2025	13:56	LB135837

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Metals
- 3b -
PREPARATION BLANK SUMMARY

Client: CDM Smith **SDG No.:** Q2074

Instrument: P4

Sample ID	Analyte	Result (mg/Kg)	Acceptance Limit	Conc Qual	CRQL mg/Kg	M	Analysis Date	Analysis Time	Run
PB168087BL		**SOLID**		**Batch Number:**	**PB168087**		**Prep Date:**	**05/20/2025**	
	Aluminum	0.94	<5.00	J	5.00	P	05/21/2025	17:10	LB135868
	Antimony	2.50	<2.50	U	2.50	P	05/21/2025	17:10	LB135868
	Arsenic	1.00	<1.00	U	1.00	P	05/21/2025	17:10	LB135868
	Barium	5.00	<5.00	U	5.00	P	05/21/2025	17:10	LB135868
	Beryllium	0.30	<0.30	U	0.30	P	05/21/2025	17:10	LB135868
	Cadmium	0.30	<0.30	U	0.30	P	05/21/2025	17:10	LB135868
	Calcium	100	<100	U	100	P	05/21/2025	17:10	LB135868
	Chromium	0.50	<0.50	U	0.50	P	05/21/2025	17:10	LB135868
	Cobalt	1.50	<1.50	U	1.50	P	05/21/2025	17:10	LB135868
	Copper	1.00	<1.00	U	1.00	P	05/21/2025	17:10	LB135868
	Iron	5.00	<5.00	U	5.00	P	05/21/2025	17:10	LB135868
	Lead	0.60	<0.60	U	0.60	P	05/21/2025	17:10	LB135868
	Magnesium	100	<100	U	100	P	05/21/2025	17:10	LB135868
	Manganese	1.00	<1.00	U	1.00	P	05/21/2025	17:10	LB135868
	Nickel	2.00	<2.00	U	2.00	P	05/21/2025	17:10	LB135868
	Potassium	100	<100	U	100	P	05/21/2025	17:10	LB135868
	Selenium	1.00	<1.00	U	1.00	P	05/21/2025	17:10	LB135868
	Silver	0.50	<0.50	U	0.50	P	05/21/2025	17:10	LB135868
	Sodium	100	<100	U	100	P	05/21/2025	17:10	LB135868
	Thallium	2.00	<2.00	U	2.00	P	05/21/2025	17:10	LB135868
	Vanadium	2.00	<2.00	U	2.00	P	05/21/2025	17:10	LB135868
	Zinc	2.00	<2.00	U	2.00	P	05/21/2025	17:10	LB135868

METAL CALIBRATION DATA

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: CDM Smith **SDG No.:** Q2074

Contract: CAMP02 **Lab Code:** CHEM **Case No.:** Q2074 **SAS No.:** Q2074

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
ICV12	Mercury	3.99	4.0	100	90 - 110	CV	05/20/2025	12:58	LB135837

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: CDM Smith **SDG No.:** Q2074

Contract: CAMP02 **Lab Code:** CHEM **Case No.:** Q2074 **SAS No.:** Q2074

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
CCV45	Mercury	4.90	5.0	98	90 - 110	CV	05/20/2025	13:03	LB135837
CCV46	Mercury	4.73	5.0	95	90 - 110	CV	05/20/2025	13:33	LB135837
CCV47	Mercury	4.80	5.0	96	90 - 110	CV	05/20/2025	14:01	LB135837
CCV48	Mercury	4.90	5.0	98	90 - 110	CV	05/20/2025	14:29	LB135837
CCV49	Mercury	5.16	5.0	103	90 - 110	CV	05/20/2025	14:52	LB135837
CCV50	Mercury	5.14	5.0	103	90 - 110	CV	05/20/2025	15:05	LB135837

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: CDM Smith **SDG No.:** Q2074

Contract: CAMP02 **Lab Code:** CHEM **Case No.:** Q2074 **SAS No.:** Q2074

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	2410	2500	96	90 - 110	P	05/21/2025	13:19	LB135868
	Antimony	1010	1000	101	90 - 110	P	05/21/2025	13:19	LB135868
	Arsenic	1020	1000	102	90 - 110	P	05/21/2025	13:19	LB135868
	Barium	535	520	103	90 - 110	P	05/21/2025	13:19	LB135868
	Beryllium	478	510	94	90 - 110	P	05/21/2025	13:19	LB135868
	Cadmium	510	510	100	90 - 110	P	05/21/2025	13:19	LB135868
	Calcium	9470	10000	95	90 - 110	P	05/21/2025	13:19	LB135868
	Chromium	514	520	99	90 - 110	P	05/21/2025	13:19	LB135868
	Cobalt	498	520	96	90 - 110	P	05/21/2025	13:19	LB135868
	Copper	514	510	101	90 - 110	P	05/21/2025	13:19	LB135868
	Iron	10400	10000	104	90 - 110	P	05/21/2025	13:19	LB135868
	Lead	989	1000	99	90 - 110	P	05/21/2025	13:19	LB135868
	Magnesium	5600	6000	93	90 - 110	P	05/21/2025	13:19	LB135868
	Manganese	486	520	93	90 - 110	P	05/21/2025	13:19	LB135868
	Nickel	501	530	94	90 - 110	P	05/21/2025	13:19	LB135868
	Potassium	10700	9900	108	90 - 110	P	05/21/2025	13:19	LB135868
	Selenium	1050	1000	105	90 - 110	P	05/21/2025	13:19	LB135868
	Silver	264	250	106	90 - 110	P	05/21/2025	13:19	LB135868
	Sodium	10100	10000	101	90 - 110	P	05/21/2025	13:19	LB135868
	Thallium	1030	1000	103	90 - 110	P	05/21/2025	13:19	LB135868
	Vanadium	473	500	95	90 - 110	P	05/21/2025	13:19	LB135868
	Zinc	1010	1000	101	90 - 110	P	05/21/2025	13:19	LB135868

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: CDM Smith **SDG No.:** Q2074

Contract: CAMP02 **Lab Code:** CHEM **Case No.:** Q2074 **SAS No.:** Q2074

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	111	100	111	80 - 120	P	05/21/2025	13:29	LB135868
	Antimony	50.1	50.0	100	80 - 120	P	05/21/2025	13:29	LB135868
	Arsenic	17.0	20.0	85	80 - 120	P	05/21/2025	13:29	LB135868
	Barium	90.6	100	91	80 - 120	P	05/21/2025	13:29	LB135868
	Beryllium	6.01	6.0	100	80 - 120	P	05/21/2025	13:29	LB135868
	Cadmium	6.06	6.0	101	80 - 120	P	05/21/2025	13:29	LB135868
	Calcium	2020	2000	101	80 - 120	P	05/21/2025	13:29	LB135868
	Chromium	10.3	10.0	103	80 - 120	P	05/21/2025	13:29	LB135868
	Cobalt	29.7	30.0	99	80 - 120	P	05/21/2025	13:29	LB135868
	Copper	21.8	20.0	109	80 - 120	P	05/21/2025	13:29	LB135868
	Iron	105	100	105	80 - 120	P	05/21/2025	13:29	LB135868
	Lead	11.0	12.0	92	80 - 120	P	05/21/2025	13:29	LB135868
	Magnesium	2060	2000	103	80 - 120	P	05/21/2025	13:29	LB135868
	Manganese	22.2	20.0	111	80 - 120	P	05/21/2025	13:29	LB135868
	Nickel	39.6	40.0	99	80 - 120	P	05/21/2025	13:29	LB135868
	Potassium	1920	2000	96	80 - 120	P	05/21/2025	13:29	LB135868
	Selenium	19.5	20.0	98	80 - 120	P	05/21/2025	13:29	LB135868
	Silver	11.0	10.0	110	80 - 120	P	05/21/2025	13:29	LB135868
	Sodium	1900	2000	95	80 - 120	P	05/21/2025	13:29	LB135868
	Thallium	40.7	40.0	102	80 - 120	P	05/21/2025	13:29	LB135868
	Vanadium	40.1	40.0	100	80 - 120	P	05/21/2025	13:29	LB135868
	Zinc	43.2	40.0	108	80 - 120	P	05/21/2025	13:29	LB135868

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: CDM Smith **SDG No.:** Q2074

Contract: CAMP02 **Lab Code:** CHEM **Case No.:** Q2074 **SAS No.:** Q2074

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	9680	10000	97	90 - 110	P	05/21/2025	14:09	LB135868
	Antimony	4890	5000	98	90 - 110	P	05/21/2025	14:09	LB135868
	Arsenic	4850	5000	97	90 - 110	P	05/21/2025	14:09	LB135868
	Barium	9920	10000	99	90 - 110	P	05/21/2025	14:09	LB135868
	Beryllium	234	250	94	90 - 110	P	05/21/2025	14:09	LB135868
	Cadmium	2430	2500	97	90 - 110	P	05/21/2025	14:09	LB135868
	Calcium	24400	25000	98	90 - 110	P	05/21/2025	14:09	LB135868
	Chromium	984	1000	98	90 - 110	P	05/21/2025	14:09	LB135868
	Cobalt	2430	2500	97	90 - 110	P	05/21/2025	14:09	LB135868
	Copper	1230	1250	98	90 - 110	P	05/21/2025	14:09	LB135868
	Iron	5060	5000	101	90 - 110	P	05/21/2025	14:09	LB135868
	Lead	4900	5000	98	90 - 110	P	05/21/2025	14:09	LB135868
	Magnesium	24200	25000	97	90 - 110	P	05/21/2025	14:09	LB135868
	Manganese	2450	2500	98	90 - 110	P	05/21/2025	14:09	LB135868
	Nickel	2440	2500	98	90 - 110	P	05/21/2025	14:09	LB135868
	Potassium	25100	25000	100	90 - 110	P	05/21/2025	14:09	LB135868
	Selenium	4860	5000	97	90 - 110	P	05/21/2025	14:09	LB135868
	Silver	1220	1250	98	90 - 110	P	05/21/2025	14:09	LB135868
	Sodium	25300	25000	101	90 - 110	P	05/21/2025	14:09	LB135868
	Thallium	4970	5000	99	90 - 110	P	05/21/2025	14:09	LB135868
	Vanadium	2450	2500	98	90 - 110	P	05/21/2025	14:09	LB135868
	Zinc	2470	2500	99	90 - 110	P	05/21/2025	14:09	LB135868
CCV02	Aluminum	9670	10000	97	90 - 110	P	05/21/2025	15:00	LB135868
	Antimony	4830	5000	96	90 - 110	P	05/21/2025	15:00	LB135868
	Arsenic	4860	5000	97	90 - 110	P	05/21/2025	15:00	LB135868
	Barium	9490	10000	95	90 - 110	P	05/21/2025	15:00	LB135868
	Beryllium	242	250	97	90 - 110	P	05/21/2025	15:00	LB135868
	Cadmium	2460	2500	98	90 - 110	P	05/21/2025	15:00	LB135868
	Calcium	24400	25000	98	90 - 110	P	05/21/2025	15:00	LB135868
	Chromium	995	1000	100	90 - 110	P	05/21/2025	15:00	LB135868
	Cobalt	2440	2500	98	90 - 110	P	05/21/2025	15:00	LB135868
	Copper	1220	1250	98	90 - 110	P	05/21/2025	15:00	LB135868
	Iron	4930	5000	99	90 - 110	P	05/21/2025	15:00	LB135868
	Lead	4910	5000	98	90 - 110	P	05/21/2025	15:00	LB135868

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: CDM Smith **SDG No.:** Q2074

Contract: CAMP02 **Lab Code:** CHEM **Case No.:** Q2074 **SAS No.:** Q2074

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	05/21/2025	15:00	LB135868
	Manganese	2410	2500	96	90 - 110	P	05/21/2025	15:00	LB135868
	Nickel	2450	2500	98	90 - 110	P	05/21/2025	15:00	LB135868
	Potassium	24200	25000	97	90 - 110	P	05/21/2025	15:00	LB135868
	Selenium	4860	5000	97	90 - 110	P	05/21/2025	15:00	LB135868
	Silver	1220	1250	98	90 - 110	P	05/21/2025	15:00	LB135868
	Sodium	24000	25000	96	90 - 110	P	05/21/2025	15:00	LB135868
	Thallium	4820	5000	96	90 - 110	P	05/21/2025	15:00	LB135868
	Vanadium	2430	2500	97	90 - 110	P	05/21/2025	15:00	LB135868
	Zinc	2440	2500	98	90 - 110	P	05/21/2025	15:00	LB135868
CCV03	Aluminum	9720	10000	97	90 - 110	P	05/21/2025	16:02	LB135868
	Antimony	4810	5000	96	90 - 110	P	05/21/2025	16:02	LB135868
	Arsenic	4780	5000	96	90 - 110	P	05/21/2025	16:02	LB135868
	Barium	9430	10000	94	90 - 110	P	05/21/2025	16:02	LB135868
	Beryllium	244	250	98	90 - 110	P	05/21/2025	16:02	LB135868
	Cadmium	2390	2500	96	90 - 110	P	05/21/2025	16:02	LB135868
	Calcium	24100	25000	96	90 - 110	P	05/21/2025	16:02	LB135868
	Chromium	983	1000	98	90 - 110	P	05/21/2025	16:02	LB135868
	Cobalt	2390	2500	96	90 - 110	P	05/21/2025	16:02	LB135868
	Copper	1210	1250	97	90 - 110	P	05/21/2025	16:02	LB135868
	Iron	4860	5000	97	90 - 110	P	05/21/2025	16:02	LB135868
	Lead	4810	5000	96	90 - 110	P	05/21/2025	16:02	LB135868
	Magnesium	24000	25000	96	90 - 110	P	05/21/2025	16:02	LB135868
	Manganese	2390	2500	96	90 - 110	P	05/21/2025	16:02	LB135868
	Nickel	2400	2500	96	90 - 110	P	05/21/2025	16:02	LB135868
	Potassium	23900	25000	96	90 - 110	P	05/21/2025	16:02	LB135868
	Selenium	4790	5000	96	90 - 110	P	05/21/2025	16:02	LB135868
	Silver	1220	1250	98	90 - 110	P	05/21/2025	16:02	LB135868
	Sodium	23600	25000	94	90 - 110	P	05/21/2025	16:02	LB135868
	Thallium	4670	5000	93	90 - 110	P	05/21/2025	16:02	LB135868
	Vanadium	2420	2500	97	90 - 110	P	05/21/2025	16:02	LB135868
	Zinc	2460	2500	98	90 - 110	P	05/21/2025	16:02	LB135868
CCV04	Aluminum	9550	10000	96	90 - 110	P	05/21/2025	17:27	LB135868
	Antimony	4750	5000	95	90 - 110	P	05/21/2025	17:27	LB135868

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: CDM Smith **SDG No.:** Q2074

Contract: CAMP02 **Lab Code:** CHEM **Case No.:** Q2074 **SAS No.:** Q2074

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	4680	5000	94	90 - 110	P	05/21/2025	17:27	LB135868
	Barium	9490	10000	95	90 - 110	P	05/21/2025	17:27	LB135868
	Beryllium	244	250	98	90 - 110	P	05/21/2025	17:27	LB135868
	Cadmium	2370	2500	95	90 - 110	P	05/21/2025	17:27	LB135868
	Calcium	24000	25000	96	90 - 110	P	05/21/2025	17:27	LB135868
	Chromium	961	1000	96	90 - 110	P	05/21/2025	17:27	LB135868
	Cobalt	2370	2500	95	90 - 110	P	05/21/2025	17:27	LB135868
	Copper	1190	1250	96	90 - 110	P	05/21/2025	17:27	LB135868
	Iron	4790	5000	96	90 - 110	P	05/21/2025	17:27	LB135868
	Lead	4790	5000	96	90 - 110	P	05/21/2025	17:27	LB135868
	Magnesium	23900	25000	96	90 - 110	P	05/21/2025	17:27	LB135868
	Manganese	2420	2500	97	90 - 110	P	05/21/2025	17:27	LB135868
	Nickel	2380	2500	95	90 - 110	P	05/21/2025	17:27	LB135868
	Potassium	23400	25000	94	90 - 110	P	05/21/2025	17:27	LB135868
	Selenium	4700	5000	94	90 - 110	P	05/21/2025	17:27	LB135868
	Silver	1200	1250	96	90 - 110	P	05/21/2025	17:27	LB135868
	Sodium	23500	25000	94	90 - 110	P	05/21/2025	17:27	LB135868
	Thallium	4790	5000	96	90 - 110	P	05/21/2025	17:27	LB135868
	Vanadium	2410	2500	96	90 - 110	P	05/21/2025	17:27	LB135868
	Zinc	2440	2500	97	90 - 110	P	05/21/2025	17:27	LB135868
CCV05	Aluminum	9490	10000	95	90 - 110	P	05/21/2025	18:16	LB135868
	Antimony	4730	5000	94	90 - 110	P	05/21/2025	18:16	LB135868
	Arsenic	4730	5000	95	90 - 110	P	05/21/2025	18:16	LB135868
	Barium	9440	10000	94	90 - 110	P	05/21/2025	18:16	LB135868
	Beryllium	244	250	98	90 - 110	P	05/21/2025	18:16	LB135868
	Cadmium	2410	2500	96	90 - 110	P	05/21/2025	18:16	LB135868
	Calcium	24100	25000	96	90 - 110	P	05/21/2025	18:16	LB135868
	Chromium	984	1000	98	90 - 110	P	05/21/2025	18:16	LB135868
	Cobalt	2400	2500	96	90 - 110	P	05/21/2025	18:16	LB135868
	Copper	1200	1250	96	90 - 110	P	05/21/2025	18:16	LB135868
	Iron	4870	5000	97	90 - 110	P	05/21/2025	18:16	LB135868
	Lead	4830	5000	97	90 - 110	P	05/21/2025	18:16	LB135868
	Magnesium	24300	25000	97	90 - 110	P	05/21/2025	18:16	LB135868
	Manganese	2400	2500	96	90 - 110	P	05/21/2025	18:16	LB135868

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: CDM Smith **SDG No.:** Q2074

Contract: CAMP02 **Lab Code:** CHEM **Case No.:** Q2074 **SAS No.:** Q2074

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV05	Nickel	2410	2500	96	90 - 110	P	05/21/2025	18:16	LB135868
	Potassium	23500	25000	94	90 - 110	P	05/21/2025	18:16	LB135868
	Selenium	4720	5000	94	90 - 110	P	05/21/2025	18:16	LB135868
	Silver	1210	1250	96	90 - 110	P	05/21/2025	18:16	LB135868
	Sodium	23400	25000	94	90 - 110	P	05/21/2025	18:16	LB135868
	Thallium	4710	5000	94	90 - 110	P	05/21/2025	18:16	LB135868
	Vanadium	2400	2500	96	90 - 110	P	05/21/2025	18:16	LB135868
	Zinc	2430	2500	97	90 - 110	P	05/21/2025	18:16	LB135868
CCV06	Aluminum	9730	10000	97	90 - 110	P	05/21/2025	19:08	LB135868
	Antimony	4880	5000	98	90 - 110	P	05/21/2025	19:08	LB135868
	Arsenic	4940	5000	99	90 - 110	P	05/21/2025	19:08	LB135868
	Barium	9570	10000	96	90 - 110	P	05/21/2025	19:08	LB135868
	Beryllium	252	250	101	90 - 110	P	05/21/2025	19:08	LB135868
	Cadmium	2500	2500	100	90 - 110	P	05/21/2025	19:08	LB135868
	Calcium	24600	25000	98	90 - 110	P	05/21/2025	19:08	LB135868
	Chromium	1010	1000	101	90 - 110	P	05/21/2025	19:08	LB135868
	Cobalt	2480	2500	99	90 - 110	P	05/21/2025	19:08	LB135868
	Copper	1240	1250	99	90 - 110	P	05/21/2025	19:08	LB135868
	Iron	4970	5000	99	90 - 110	P	05/21/2025	19:08	LB135868
	Lead	4990	5000	100	90 - 110	P	05/21/2025	19:08	LB135868
	Magnesium	24800	25000	99	90 - 110	P	05/21/2025	19:08	LB135868
	Manganese	2430	2500	97	90 - 110	P	05/21/2025	19:08	LB135868
	Nickel	2490	2500	100	90 - 110	P	05/21/2025	19:08	LB135868
	Potassium	24000	25000	96	90 - 110	P	05/21/2025	19:08	LB135868
	Selenium	4940	5000	99	90 - 110	P	05/21/2025	19:08	LB135868
	Silver	1240	1250	100	90 - 110	P	05/21/2025	19:08	LB135868
	Sodium	23600	25000	95	90 - 110	P	05/21/2025	19:08	LB135868
	Thallium	4910	5000	98	90 - 110	P	05/21/2025	19:08	LB135868
	Vanadium	2450	2500	98	90 - 110	P	05/21/2025	19:08	LB135868
	Zinc	2490	2500	100	90 - 110	P	05/21/2025	19:08	LB135868
CCV07	Aluminum	9730	10000	97	90 - 110	P	05/21/2025	19:57	LB135868
	Antimony	4920	5000	98	90 - 110	P	05/21/2025	19:57	LB135868
	Arsenic	4940	5000	99	90 - 110	P	05/21/2025	19:57	LB135868
	Barium	9580	10000	96	90 - 110	P	05/21/2025	19:57	LB135868

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: CDM Smith **SDG No.:** Q2074

Contract: CAMP02 **Lab Code:** CHEM **Case No.:** Q2074 **SAS No.:** Q2074

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV07	Beryllium	253	250	101	90 - 110	P	05/21/2025	19:57	LB135868
	Cadmium	2480	2500	99	90 - 110	P	05/21/2025	19:57	LB135868
	Calcium	24400	25000	98	90 - 110	P	05/21/2025	19:57	LB135868
	Chromium	1000	1000	100	90 - 110	P	05/21/2025	19:57	LB135868
	Cobalt	2460	2500	98	90 - 110	P	05/21/2025	19:57	LB135868
	Copper	1240	1250	99	90 - 110	P	05/21/2025	19:57	LB135868
	Iron	4920	5000	98	90 - 110	P	05/21/2025	19:57	LB135868
	Lead	4950	5000	99	90 - 110	P	05/21/2025	19:57	LB135868
	Magnesium	24600	25000	98	90 - 110	P	05/21/2025	19:57	LB135868
	Manganese	2440	2500	98	90 - 110	P	05/21/2025	19:57	LB135868
	Nickel	2470	2500	99	90 - 110	P	05/21/2025	19:57	LB135868
	Potassium	23800	25000	95	90 - 110	P	05/21/2025	19:57	LB135868
	Selenium	4970	5000	99	90 - 110	P	05/21/2025	19:57	LB135868
	Silver	1240	1250	99	90 - 110	P	05/21/2025	19:57	LB135868
	Sodium	23600	25000	94	90 - 110	P	05/21/2025	19:57	LB135868
	Thallium	4860	5000	97	90 - 110	P	05/21/2025	19:57	LB135868
	Vanadium	2440	2500	98	90 - 110	P	05/21/2025	19:57	LB135868
	Zinc	2490	2500	100	90 - 110	P	05/21/2025	19:57	LB135868
CCV08	Aluminum	9510	10000	95	90 - 110	P	05/21/2025	20:43	LB135868
	Antimony	4770	5000	95	90 - 110	P	05/21/2025	20:43	LB135868
	Arsenic	4800	5000	96	90 - 110	P	05/21/2025	20:43	LB135868
	Barium	9410	10000	94	90 - 110	P	05/21/2025	20:43	LB135868
	Beryllium	251	250	100	90 - 110	P	05/21/2025	20:43	LB135868
	Cadmium	2410	2500	96	90 - 110	P	05/21/2025	20:43	LB135868
	Calcium	23800	25000	95	90 - 110	P	05/21/2025	20:43	LB135868
	Chromium	974	1000	97	90 - 110	P	05/21/2025	20:43	LB135868
	Cobalt	2390	2500	96	90 - 110	P	05/21/2025	20:43	LB135868
	Copper	1210	1250	97	90 - 110	P	05/21/2025	20:43	LB135868
	Iron	4720	5000	94	90 - 110	P	05/21/2025	20:43	LB135868
	Lead	4820	5000	96	90 - 110	P	05/21/2025	20:43	LB135868
	Magnesium	24100	25000	96	90 - 110	P	05/21/2025	20:43	LB135868
	Manganese	2390	2500	96	90 - 110	P	05/21/2025	20:43	LB135868
	Nickel	2410	2500	96	90 - 110	P	05/21/2025	20:43	LB135868
	Potassium	22800	25000	91	90 - 110	P	05/21/2025	20:43	LB135868

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: CDM Smith **SDG No.:** Q2074

Contract: CAMP02 **Lab Code:** CHEM **Case No.:** Q2074 **SAS No.:** Q2074

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV08	Selenium	4820	5000	96	90 - 110	P	05/21/2025	20:43	LB135868
	Silver	1210	1250	97	90 - 110	P	05/21/2025	20:43	LB135868
	Sodium	22600	25000	90	90 - 110	P	05/21/2025	20:43	LB135868
	Thallium	4730	5000	95	90 - 110	P	05/21/2025	20:43	LB135868
	Vanadium	2380	2500	95	90 - 110	P	05/21/2025	20:43	LB135868
	Zinc	2430	2500	97	90 - 110	P	05/21/2025	20:43	LB135868
CCV09	Aluminum	9620	10000	96	90 - 110	P	05/21/2025	21:29	LB135868
	Antimony	4780	5000	96	90 - 110	P	05/21/2025	21:29	LB135868
	Arsenic	4790	5000	96	90 - 110	P	05/21/2025	21:29	LB135868
	Barium	9430	10000	94	90 - 110	P	05/21/2025	21:29	LB135868
	Beryllium	258	250	103	90 - 110	P	05/21/2025	21:29	LB135868
	Cadmium	2440	2500	98	90 - 110	P	05/21/2025	21:29	LB135868
	Calcium	24400	25000	98	90 - 110	P	05/21/2025	21:29	LB135868
	Chromium	993	1000	99	90 - 110	P	05/21/2025	21:29	LB135868
	Cobalt	2420	2500	97	90 - 110	P	05/21/2025	21:29	LB135868
	Copper	1200	1250	96	90 - 110	P	05/21/2025	21:29	LB135868
	Iron	4750	5000	95	90 - 110	P	05/21/2025	21:29	LB135868
	Lead	4890	5000	98	90 - 110	P	05/21/2025	21:29	LB135868
	Magnesium	24800	25000	99	90 - 110	P	05/21/2025	21:29	LB135868
	Manganese	2440	2500	98	90 - 110	P	05/21/2025	21:29	LB135868
	Nickel	2430	2500	97	90 - 110	P	05/21/2025	21:29	LB135868
	Potassium	22800	25000	91	90 - 110	P	05/21/2025	21:29	LB135868
	Selenium	4790	5000	96	90 - 110	P	05/21/2025	21:29	LB135868
	Silver	1220	1250	98	90 - 110	P	05/21/2025	21:29	LB135868
	Sodium	22400	25000	90	90 - 110	P	05/21/2025	21:29	LB135868
	Thallium	4830	5000	96	90 - 110	P	05/21/2025	21:29	LB135868
	Vanadium	2430	2500	97	90 - 110	P	05/21/2025	21:29	LB135868
	Zinc	2450	2500	98	90 - 110	P	05/21/2025	21:29	LB135868
CCV10	Aluminum	9690	10000	97	90 - 110	P	05/21/2025	21:50	LB135868
	Antimony	4860	5000	97	90 - 110	P	05/21/2025	21:50	LB135868
	Arsenic	4860	5000	97	90 - 110	P	05/21/2025	21:50	LB135868
	Barium	9420	10000	94	90 - 110	P	05/21/2025	21:50	LB135868
	Beryllium	259	250	104	90 - 110	P	05/21/2025	21:50	LB135868
	Cadmium	2430	2500	97	90 - 110	P	05/21/2025	21:50	LB135868

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: CDM Smith **SDG No.:** Q2074

Contract: CAMP02 **Lab Code:** CHEM **Case No.:** Q2074 **SAS No.:** Q2074

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
CCV10	Calcium	24200	25000	97	90 - 110	P	05/21/2025	21:50	LB135868
	Chromium	987	1000	99	90 - 110	P	05/21/2025	21:50	LB135868
	Cobalt	2430	2500	97	90 - 110	P	05/21/2025	21:50	LB135868
	Copper	1230	1250	98	90 - 110	P	05/21/2025	21:50	LB135868
	Iron	4730	5000	95	90 - 110	P	05/21/2025	21:50	LB135868
	Lead	4870	5000	97	90 - 110	P	05/21/2025	21:50	LB135868
	Magnesium	24500	25000	98	90 - 110	P	05/21/2025	21:50	LB135868
	Manganese	2420	2500	97	90 - 110	P	05/21/2025	21:50	LB135868
	Nickel	2430	2500	97	90 - 110	P	05/21/2025	21:50	LB135868
	Potassium	22800	25000	91	90 - 110	P	05/21/2025	21:50	LB135868
	Selenium	4860	5000	97	90 - 110	P	05/21/2025	21:50	LB135868
	Silver	1230	1250	99	90 - 110	P	05/21/2025	21:50	LB135868
	Sodium	22500	25000	90	90 - 110	P	05/21/2025	21:50	LB135868
	Thallium	4830	5000	97	90 - 110	P	05/21/2025	21:50	LB135868
	Vanadium	2420	2500	97	90 - 110	P	05/21/2025	21:50	LB135868
	Zinc	2470	2500	99	90 - 110	P	05/21/2025	21:50	LB135868

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: CDM Smith **SDG No.:** Q2074

Contract: CAMP02 **Lab Code:** CHEM **Case No.:** Q2074 **SAS No.:** Q2074

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV01	Aluminum	2480	2500	99	90 - 110	P	05/22/2025	15:00	LB135892
	Antimony	1010	1000	101	90 - 110	P	05/22/2025	15:00	LB135892
	Arsenic	1040	1000	104	90 - 110	P	05/22/2025	15:00	LB135892
	Barium	521	520	100	90 - 110	P	05/22/2025	15:00	LB135892
	Beryllium	477	510	93	90 - 110	P	05/22/2025	15:00	LB135892
	Cadmium	516	510	101	90 - 110	P	05/22/2025	15:00	LB135892
	Calcium	10000	10000	100	90 - 110	P	05/22/2025	15:00	LB135892
	Chromium	532	520	102	90 - 110	P	05/22/2025	15:00	LB135892
	Cobalt	520	520	100	90 - 110	P	05/22/2025	15:00	LB135892
	Copper	540	510	106	90 - 110	P	05/22/2025	15:00	LB135892
	Iron	10900	10000	109	90 - 110	P	05/22/2025	15:00	LB135892
	Lead	1000	1000	100	90 - 110	P	05/22/2025	15:00	LB135892
	Magnesium	5830	6000	97	90 - 110	P	05/22/2025	15:00	LB135892
	Manganese	515	520	99	90 - 110	P	05/22/2025	15:00	LB135892
	Nickel	522	530	98	90 - 110	P	05/22/2025	15:00	LB135892
	Potassium	10300	9900	104	90 - 110	P	05/22/2025	15:00	LB135892
	Selenium	1070	1000	107	90 - 110	P	05/22/2025	15:00	LB135892
	Silver	268	250	107	90 - 110	P	05/22/2025	15:00	LB135892
	Sodium	10500	10000	105	90 - 110	P	05/22/2025	15:00	LB135892
	Thallium	1070	1000	107	90 - 110	P	05/22/2025	15:00	LB135892
	Vanadium	498	500	100	90 - 110	P	05/22/2025	15:00	LB135892
	Zinc	1060	1000	106	90 - 110	P	05/22/2025	15:00	LB135892

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: CDM Smith **SDG No.:** Q2074

Contract: CAMP02 **Lab Code:** CHEM **Case No.:** Q2074 **SAS No.:** Q2074

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	115	100	115	80 - 120	P	05/22/2025	15:16	LB135892
	Antimony	53.5	50.0	107	80 - 120	P	05/22/2025	15:16	LB135892
	Arsenic	17.6	20.0	88	80 - 120	P	05/22/2025	15:16	LB135892
	Barium	105	100	106	80 - 120	P	05/22/2025	15:16	LB135892
	Beryllium	5.98	6.0	100	80 - 120	P	05/22/2025	15:16	LB135892
	Cadmium	6.24	6.0	104	80 - 120	P	05/22/2025	15:16	LB135892
	Calcium	2100	2000	105	80 - 120	P	05/22/2025	15:16	LB135892
	Chromium	9.86	10.0	99	80 - 120	P	05/22/2025	15:16	LB135892
	Cobalt	30.5	30.0	102	80 - 120	P	05/22/2025	15:16	LB135892
	Copper	23.9	20.0	120	80 - 120	P	05/22/2025	15:16	LB135892
	Iron	113	100	113	80 - 120	P	05/22/2025	15:16	LB135892
	Lead	11.1	12.0	93	80 - 120	P	05/22/2025	15:16	LB135892
	Magnesium	2170	2000	109	80 - 120	P	05/22/2025	15:16	LB135892
	Manganese	21.7	20.0	108	80 - 120	P	05/22/2025	15:16	LB135892
	Nickel	40.8	40.0	102	80 - 120	P	05/22/2025	15:16	LB135892
	Potassium	2080	2000	104	80 - 120	P	05/22/2025	15:16	LB135892
	Selenium	18.4	20.0	92	80 - 120	P	05/22/2025	15:16	LB135892
	Silver	9.74	10.0	97	80 - 120	P	05/22/2025	15:16	LB135892
	Sodium	2120	2000	106	80 - 120	P	05/22/2025	15:16	LB135892
	Thallium	40.8	40.0	102	80 - 120	P	05/22/2025	15:16	LB135892
	Vanadium	42.5	40.0	106	80 - 120	P	05/22/2025	15:16	LB135892
	Zinc	45.4	40.0	114	80 - 120	P	05/22/2025	15:16	LB135892

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: CDM Smith **SDG No.:** Q2074

Contract: CAMP02 **Lab Code:** CHEM **Case No.:** Q2074 **SAS No.:** Q2074

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	9520	10000	95	90 - 110	P	05/22/2025	15:51	LB135892
	Antimony	4890	5000	98	90 - 110	P	05/22/2025	15:51	LB135892
	Arsenic	4830	5000	97	90 - 110	P	05/22/2025	15:51	LB135892
	Barium	10000	10000	100	90 - 110	P	05/22/2025	15:51	LB135892
	Beryllium	227	250	91	90 - 110	P	05/22/2025	15:51	LB135892
	Cadmium	2370	2500	95	90 - 110	P	05/22/2025	15:51	LB135892
	Calcium	24000	25000	96	90 - 110	P	05/22/2025	15:51	LB135892
	Chromium	962	1000	96	90 - 110	P	05/22/2025	15:51	LB135892
	Cobalt	2380	2500	95	90 - 110	P	05/22/2025	15:51	LB135892
	Copper	1220	1250	98	90 - 110	P	05/22/2025	15:51	LB135892
	Iron	5070	5000	102	90 - 110	P	05/22/2025	15:51	LB135892
	Lead	4780	5000	96	90 - 110	P	05/22/2025	15:51	LB135892
	Magnesium	23500	25000	94	90 - 110	P	05/22/2025	15:51	LB135892
	Manganese	2380	2500	95	90 - 110	P	05/22/2025	15:51	LB135892
	Nickel	2380	2500	95	90 - 110	P	05/22/2025	15:51	LB135892
	Potassium	24900	25000	100	90 - 110	P	05/22/2025	15:51	LB135892
	Selenium	4870	5000	97	90 - 110	P	05/22/2025	15:51	LB135892
	Silver	1210	1250	97	90 - 110	P	05/22/2025	15:51	LB135892
	Sodium	25300	25000	101	90 - 110	P	05/22/2025	15:51	LB135892
	Thallium	4880	5000	98	90 - 110	P	05/22/2025	15:51	LB135892
	Vanadium	2430	2500	97	90 - 110	P	05/22/2025	15:51	LB135892
	Zinc	2430	2500	97	90 - 110	P	05/22/2025	15:51	LB135892
CCV02	Aluminum	9600	10000	96	90 - 110	P	05/22/2025	16:38	LB135892
	Antimony	4840	5000	97	90 - 110	P	05/22/2025	16:38	LB135892
	Arsenic	4820	5000	96	90 - 110	P	05/22/2025	16:38	LB135892
	Barium	9370	10000	94	90 - 110	P	05/22/2025	16:38	LB135892
	Beryllium	248	250	99	90 - 110	P	05/22/2025	16:38	LB135892
	Cadmium	2370	2500	95	90 - 110	P	05/22/2025	16:38	LB135892
	Calcium	23700	25000	95	90 - 110	P	05/22/2025	16:38	LB135892
	Chromium	961	1000	96	90 - 110	P	05/22/2025	16:38	LB135892
	Cobalt	2360	2500	94	90 - 110	P	05/22/2025	16:38	LB135892
	Copper	1220	1250	97	90 - 110	P	05/22/2025	16:38	LB135892
	Iron	4680	5000	94	90 - 110	P	05/22/2025	16:38	LB135892
	Lead	4770	5000	95	90 - 110	P	05/22/2025	16:38	LB135892

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: CDM Smith **SDG No.:** Q2074

Contract: CAMP02 **Lab Code:** CHEM **Case No.:** Q2074 **SAS No.:** Q2074

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV02	Magnesium	23700	25000	95	90 - 110	P	05/22/2025	16:38	LB135892
	Manganese	2390	2500	96	90 - 110	P	05/22/2025	16:38	LB135892
	Nickel	2370	2500	95	90 - 110	P	05/22/2025	16:38	LB135892
	Potassium	23500	25000	94	90 - 110	P	05/22/2025	16:38	LB135892
	Selenium	4850	5000	97	90 - 110	P	05/22/2025	16:38	LB135892
	Silver	1200	1250	96	90 - 110	P	05/22/2025	16:38	LB135892
	Sodium	23300	25000	93	90 - 110	P	05/22/2025	16:38	LB135892
	Thallium	4850	5000	97	90 - 110	P	05/22/2025	16:38	LB135892
	Vanadium	2380	2500	95	90 - 110	P	05/22/2025	16:38	LB135892
	Zinc	2430	2500	97	90 - 110	P	05/22/2025	16:38	LB135892
CCV03	Aluminum	9210	10000	92	90 - 110	P	05/22/2025	17:28	LB135892
	Antimony	4660	5000	93	90 - 110	P	05/22/2025	17:28	LB135892
	Arsenic	4670	5000	94	90 - 110	P	05/22/2025	17:28	LB135892
	Barium	9340	10000	93	90 - 110	P	05/22/2025	17:28	LB135892
	Beryllium	235	250	94	90 - 110	P	05/22/2025	17:28	LB135892
	Cadmium	2340	2500	94	90 - 110	P	05/22/2025	17:28	LB135892
	Calcium	23300	25000	93	90 - 110	P	05/22/2025	17:28	LB135892
	Chromium	955	1000	96	90 - 110	P	05/22/2025	17:28	LB135892
	Cobalt	2330	2500	93	90 - 110	P	05/22/2025	17:28	LB135892
	Copper	1180	1250	94	90 - 110	P	05/22/2025	17:28	LB135892
	Iron	4760	5000	95	90 - 110	P	05/22/2025	17:28	LB135892
	Lead	4680	5000	94	90 - 110	P	05/22/2025	17:28	LB135892
	Magnesium	23300	25000	93	90 - 110	P	05/22/2025	17:28	LB135892
	Manganese	2340	2500	94	90 - 110	P	05/22/2025	17:28	LB135892
	Nickel	2330	2500	93	90 - 110	P	05/22/2025	17:28	LB135892
	Potassium	23200	25000	93	90 - 110	P	05/22/2025	17:28	LB135892
	Selenium	4680	5000	94	90 - 110	P	05/22/2025	17:28	LB135892
	Silver	1170	1250	94	90 - 110	P	05/22/2025	17:28	LB135892
	Sodium	23300	25000	93	90 - 110	P	05/22/2025	17:28	LB135892
	Thallium	4710	5000	94	90 - 110	P	05/22/2025	17:28	LB135892
	Vanadium	2330	2500	93	90 - 110	P	05/22/2025	17:28	LB135892
	Zinc	2350	2500	94	90 - 110	P	05/22/2025	17:28	LB135892
CCV04	Aluminum	9970	10000	100	90 - 110	P	05/22/2025	19:08	LB135892
	Antimony	4920	5000	98	90 - 110	P	05/22/2025	19:08	LB135892

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: CDM Smith **SDG No.:** Q2074

Contract: CAMP02 **Lab Code:** CHEM **Case No.:** Q2074 **SAS No.:** Q2074

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	4980	5000	100	90 - 110	P	05/22/2025	19:08	LB135892
	Barium	10100	10000	102	90 - 110	P	05/22/2025	19:08	LB135892
	Beryllium	258	250	103	90 - 110	P	05/22/2025	19:08	LB135892
	Cadmium	2420	2500	97	90 - 110	P	05/22/2025	19:08	LB135892
	Calcium	25200	25000	101	90 - 110	P	05/22/2025	19:08	LB135892
	Chromium	996	1000	100	90 - 110	P	05/22/2025	19:08	LB135892
	Cobalt	2440	2500	97	90 - 110	P	05/22/2025	19:08	LB135892
	Copper	1250	1250	100	90 - 110	P	05/22/2025	19:08	LB135892
	Iron	4880	5000	98	90 - 110	P	05/22/2025	19:08	LB135892
	Lead	4830	5000	97	90 - 110	P	05/22/2025	19:08	LB135892
	Magnesium	24800	25000	99	90 - 110	P	05/22/2025	19:08	LB135892
	Manganese	2450	2500	98	90 - 110	P	05/22/2025	19:08	LB135892
	Nickel	2440	2500	98	90 - 110	P	05/22/2025	19:08	LB135892
	Potassium	24000	25000	96	90 - 110	P	05/22/2025	19:08	LB135892
	Selenium	4980	5000	100	90 - 110	P	05/22/2025	19:08	LB135892
	Silver	1250	1250	100	90 - 110	P	05/22/2025	19:08	LB135892
	Sodium	24500	25000	98	90 - 110	P	05/22/2025	19:08	LB135892
	Thallium	4730	5000	95	90 - 110	P	05/22/2025	19:08	LB135892
	Vanadium	2490	2500	100	90 - 110	P	05/22/2025	19:08	LB135892
	Zinc	2520	2500	101	90 - 110	P	05/22/2025	19:08	LB135892

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CRDL STANDARD FOR AA & ICP

Client: CDM Smith **SDG No.:** Q2074

Contract: CAMP02 **Lab Code:** CHEM **Case No.:** Q2074 **SAS No.:** Q2074

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	0.19	0.2	93	70 - 130	CV	05/20/2025	13:07	LB135837
CRI01	Aluminum	112	100	112	65 - 135	P	05/21/2025	13:43	LB135868
	Antimony	51.3	50.0	102	65 - 135	P	05/21/2025	13:43	LB135868
	Arsenic	17.9	20.0	89	65 - 135	P	05/21/2025	13:43	LB135868
	Barium	90.3	100	90	65 - 135	P	05/21/2025	13:43	LB135868
	Beryllium	5.78	6.0	96	65 - 135	P	05/21/2025	13:43	LB135868
	Cadmium	6.27	6.0	104	65 - 135	P	05/21/2025	13:43	LB135868
	Calcium	2000	2000	100	65 - 135	P	05/21/2025	13:43	LB135868
	Chromium	10.6	10.0	106	65 - 135	P	05/21/2025	13:43	LB135868
	Cobalt	30.1	30.0	100	65 - 135	P	05/21/2025	13:43	LB135868
	Copper	22.4	20.0	112	65 - 135	P	05/21/2025	13:43	LB135868
	Iron	106	100	106	65 - 135	P	05/21/2025	13:43	LB135868
	Lead	11.1	12.0	92	65 - 135	P	05/21/2025	13:43	LB135868
	Magnesium	2060	2000	103	65 - 135	P	05/21/2025	13:43	LB135868
	Manganese	21.7	20.0	108	65 - 135	P	05/21/2025	13:43	LB135868
	Nickel	40.1	40.0	100	65 - 135	P	05/21/2025	13:43	LB135868
	Potassium	1970	2000	99	65 - 135	P	05/21/2025	13:43	LB135868
	Selenium	18.3	20.0	92	65 - 135	P	05/21/2025	13:43	LB135868
	Silver	10.2	10.0	102	65 - 135	P	05/21/2025	13:43	LB135868
	Sodium	1940	2000	97	65 - 135	P	05/21/2025	13:43	LB135868
	Thallium	39.5	40.0	99	65 - 135	P	05/21/2025	13:43	LB135868
	Vanadium	41.3	40.0	103	65 - 135	P	05/21/2025	13:43	LB135868
	Zinc	43.4	40.0	109	65 - 135	P	05/21/2025	13:43	LB135868
CRI01	Aluminum	113	100	113	65 - 135	P	05/22/2025	15:30	LB135892
	Antimony	53.4	50.0	107	65 - 135	P	05/22/2025	15:30	LB135892
	Arsenic	19.7	20.0	98	65 - 135	P	05/22/2025	15:30	LB135892
	Barium	109	100	109	65 - 135	P	05/22/2025	15:30	LB135892
	Beryllium	6.25	6.0	104	65 - 135	P	05/22/2025	15:30	LB135892
	Cadmium	6.20	6.0	103	65 - 135	P	05/22/2025	15:30	LB135892
	Calcium	2170	2000	109	65 - 135	P	05/22/2025	15:30	LB135892
	Chromium	10.5	10.0	105	65 - 135	P	05/22/2025	15:30	LB135892
	Cobalt	31.3	30.0	104	65 - 135	P	05/22/2025	15:30	LB135892
	Copper	23.5	20.0	118	65 - 135	P	05/22/2025	15:30	LB135892
	Iron	114	100	114	65 - 135	P	05/22/2025	15:30	LB135892
	Lead	12.1	12.0	101	65 - 135	P	05/22/2025	15:30	LB135892

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Metals

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CRDL STANDARD FOR AA & ICP

Client: CDM Smith **SDG No.:** Q2074

Contract: CAMP02 **Lab Code:** CHEM **Case No.:** Q2074 **SAS No.:** Q2074

Initial Calibration Source:

Continuing Calibration Source:

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CRI01	Magnesium	2280	2000	114	65 - 135	P	05/22/2025	15:30	LB135892
	Manganese	22.1	20.0	110	65 - 135	P	05/22/2025	15:30	LB135892
	Nickel	41.4	40.0	104	65 - 135	P	05/22/2025	15:30	LB135892
	Potassium	2080	2000	104	65 - 135	P	05/22/2025	15:30	LB135892
	Selenium	15.4	20.0	77	65 - 135	P	05/22/2025	15:30	LB135892
	Silver	10.1	10.0	101	65 - 135	P	05/22/2025	15:30	LB135892
	Sodium	2090	2000	104	65 - 135	P	05/22/2025	15:30	LB135892
	Thallium	41.1	40.0	103	65 - 135	P	05/22/2025	15:30	LB135892
	Vanadium	43.9	40.0	110	65 - 135	P	05/22/2025	15:30	LB135892
	Zinc	46.0	40.0	115	65 - 135	P	05/22/2025	15:30	LB135892

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Metals
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INTERFERENCE CHECK SAMPLE

Client: CDM Smith **SDG No.:** Q2074

Contract: CAMP02 **Lab Code:** CHEM **Case No.:** Q2074 **SAS No.:** Q2074

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	245000	255000	96	216000	294000	05/21/2025	13:52	LB135868
	Antimony	0.020			-50	50	05/21/2025	13:52	LB135868
	Arsenic	4.10			-20	20	05/21/2025	13:52	LB135868
	Barium	1.83	6.0	30	-94	106	05/21/2025	13:52	LB135868
	Beryllium	0.65			-6	6	05/21/2025	13:52	LB135868
	Cadmium	2.19	1.0	219	-5	7	05/21/2025	13:52	LB135868
	Calcium	228000	245000	93	208000	282000	05/21/2025	13:52	LB135868
	Chromium	55.3	52.0	106	42	62	05/21/2025	13:52	LB135868
	Cobalt	1.60			-30	30	05/21/2025	13:52	LB135868
	Copper	3.11	2.0	156	-18	22	05/21/2025	13:52	LB135868
	Iron	91300	101000	90	85600	116500	05/21/2025	13:52	LB135868
	Lead	4.38			-12	12	05/21/2025	13:52	LB135868
	Magnesium	247000	255000	97	216000	294000	05/21/2025	13:52	LB135868
	Manganese	6.34	7.0	91	-13	27	05/21/2025	13:52	LB135868
	Nickel	2.07	2.0	104	-38	42	05/21/2025	13:52	LB135868
	Potassium	-53.4			0	0	05/21/2025	13:52	LB135868
	Selenium	-13.8			-20	20	05/21/2025	13:52	LB135868
	Silver	-0.79			-10	10	05/21/2025	13:52	LB135868
	Sodium	4.13			0	0	05/21/2025	13:52	LB135868
	Thallium	5.93			-40	40	05/21/2025	13:52	LB135868
	Vanadium	2.52			-40	40	05/21/2025	13:52	LB135868
	Zinc	4.13			-40	40	05/21/2025	13:52	LB135868
ICSAB01	Aluminum	239000	247000	97	209000	285000	05/21/2025	13:56	LB135868
	Antimony	593	618	96	525	711	05/21/2025	13:56	LB135868
	Arsenic	108	104	104	88.4	120	05/21/2025	13:56	LB135868
	Barium	447	537	83	437	637	05/21/2025	13:56	LB135868
	Beryllium	469	495	95	420	570	05/21/2025	13:56	LB135868
	Cadmium	960	972	99	826	1120	05/21/2025	13:56	LB135868
	Calcium	224000	235000	95	199000	271000	05/21/2025	13:56	LB135868
	Chromium	526	542	97	460	624	05/21/2025	13:56	LB135868
	Cobalt	473	476	99	404	548	05/21/2025	13:56	LB135868
	Copper	471	511	92	434	588	05/21/2025	13:56	LB135868
	Iron	91200	99300	92	84400	114500	05/21/2025	13:56	LB135868
	Lead	48.7	49.0	99	37	61	05/21/2025	13:56	LB135868
	Magnesium	239000	248000	96	210000	286000	05/21/2025	13:56	LB135868
	Manganese	456	507	90	430	584	05/21/2025	13:56	LB135868
	Nickel	931	954	98	810	1100	05/21/2025	13:56	LB135868
	Potassium	-57.5			0	0	05/21/2025	13:56	LB135868
	Selenium	33.9	46.0	74	26	66	05/21/2025	13:56	LB135868
	Silver	215	201	107	170	232	05/21/2025	13:56	LB135868
	Sodium	-38.7			0	0	05/21/2025	13:56	LB135868
	Thallium	103	108	95	68	148	05/21/2025	13:56	LB135868

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Metals
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INTERFERENCE CHECK SAMPLE

Client: CDM Smith **SDG No.:** Q2074

Contract: CAMP02 **Lab Code:** CHEM **Case No.:** Q2074 **SAS No.:** Q2074

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	447	491	91	417	565	05/21/2025	13:56	LB135868
	Zinc	967	952	102	809	1095	05/21/2025	13:56	LB135868
ICSA01	Aluminum	267000	255000	105	216000	294000	05/22/2025	15:34	LB135892
	Antimony	-3.61			-50	50	05/22/2025	15:34	LB135892
	Arsenic	1.77			-20	20	05/22/2025	15:34	LB135892
	Barium	7.57	6.0	126	-94	106	05/22/2025	15:34	LB135892
	Beryllium	0.62			-6	6	05/22/2025	15:34	LB135892
	Cadmium	-0.11	1.0	11	-5	7	05/22/2025	15:34	LB135892
	Calcium	257000	245000	105	208000	282000	05/22/2025	15:34	LB135892
	Chromium	59.5	52.0	114	42	62	05/22/2025	15:34	LB135892
	Cobalt	1.57			-30	30	05/22/2025	15:34	LB135892
	Copper	1.51	2.0	76	-18	22	05/22/2025	15:34	LB135892
	Iron	107000	101000	106	85600	116500	05/22/2025	15:34	LB135892
	Lead	5.66			-12	12	05/22/2025	15:34	LB135892
	Magnesium	274000	255000	108	216000	294000	05/22/2025	15:34	LB135892
	Manganese	14.6	7.0	209	-13	27	05/22/2025	15:34	LB135892
	Nickel	2.35	2.0	118	-38	42	05/22/2025	15:34	LB135892
	Potassium	-12.1			0	0	05/22/2025	15:34	LB135892
	Selenium	4.71			-20	20	05/22/2025	15:34	LB135892
	Silver	-1.36			-10	10	05/22/2025	15:34	LB135892
	Sodium	14.1			0	0	05/22/2025	15:34	LB135892
	Thallium	9.78			-40	40	05/22/2025	15:34	LB135892
	Vanadium	3.74			-40	40	05/22/2025	15:34	LB135892
	Zinc	3.58			-40	40	05/22/2025	15:34	LB135892
ICSAB01	Aluminum	239000	247000	97	209000	285000	05/22/2025	15:39	LB135892
	Antimony	594	618	96	525	711	05/22/2025	15:39	LB135892
	Arsenic	107	104	103	88.4	120	05/22/2025	15:39	LB135892
	Barium	505	537	94	437	637	05/22/2025	15:39	LB135892
	Beryllium	477	495	96	420	570	05/22/2025	15:39	LB135892
	Cadmium	965	972	99	826	1120	05/22/2025	15:39	LB135892
	Calcium	232000	235000	99	199000	271000	05/22/2025	15:39	LB135892
	Chromium	554	542	102	460	624	05/22/2025	15:39	LB135892
	Cobalt	489	476	103	404	548	05/22/2025	15:39	LB135892
	Copper	489	511	96	434	588	05/22/2025	15:39	LB135892
	Iron	101000	99300	102	84400	114500	05/22/2025	15:39	LB135892
	Lead	51.7	49.0	106	37	61	05/22/2025	15:39	LB135892
	Magnesium	247000	248000	100	210000	286000	05/22/2025	15:39	LB135892
	Manganese	498	507	98	430	584	05/22/2025	15:39	LB135892
	Nickel	969	954	102	810	1100	05/22/2025	15:39	LB135892
	Potassium	14.2			0	0	05/22/2025	15:39	LB135892
	Selenium	56.0	46.0	122	26	66	05/22/2025	15:39	LB135892
	Silver	222	201	110	170	232	05/22/2025	15:39	LB135892

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Metals
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INTERFERENCE CHECK SAMPLE

Client: CDM Smith **SDG No.:** Q2074

Contract: CAMP02 **Lab Code:** CHEM **Case No.:** Q2074 **SAS No.:** Q2074

ICS Source: EPA **Instrument ID:** P4

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Low Limit (ug/L)	High Limit (ug/L)	Analysis Date	Analysis Time	Run Number
ICSAB01	Sodium	-3.31			0	0	05/22/2025	15:39	LB135892
	Thallium	112	108	104	68	148	05/22/2025	15:39	LB135892
	Vanadium	483	491	98	417	565	05/22/2025	15:39	LB135892
	Zinc	1030	952	108	809	1095	05/22/2025	15:39	LB135892

METAL QC DATA

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MATRIX SPIKE SUMMARY

client: CDM Smith **level:** low **sdg no.:** Q2074

contract: CAMP02 **lab code:** CHEM **case no.:** Q2074 **sas no.:** Q2074

matrix: Solid **sample id:** Q2074-08 **client id:** TP-18MS

Percent Solids for Sample: 78 **Spiked ID:** Q2074-08MS **Percent Solids for Spike Sample:** 78

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	mg/Kg	80 - 120	0.30		0.030		0.33	83		CV

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MATRIX SPIKE DUPLICATE SUMMARY

client: CDM Smith **level:** low **sdg no.:** Q2074

contract: CAMP02 **lab code:** CHEM **case no.:** Q2074 **sas no.:** Q2074

matrix: Solid **sample id:** Q2074-08 **client id:** TP-18MSD

Percent Solids for Sample: 78 **Spiked ID:** Q2074-08MSD **Percent Solids for Spike Sample:** 78

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	mg/Kg	80 - 120	0.34		0.030		0.33	94		CV

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metals
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MATRIX SPIKE SUMMARY

client: CDM Smith **level:** low **sdg no.:** Q2074

contract: CAMP02 **lab code:** CHEM **case no.:** Q2074 **sas no.:** Q2074

matrix: Solid **sample id:** Q2080-01 **client id:** PL-HRH-COMP-01MS

Percent Solids for Sample: 86.5 **Spiked ID:** Q2080-01MS **Percent Solids for Spike Sample:** 86.5

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	mg/Kg	75 - 125	11400		9940		110	1374		P
Antimony	mg/Kg	75 - 125	15.4		2.51	U	42.8	36	N	P
Arsenic	mg/Kg	75 - 125	40.6		5.09		42.8	83		P
Barium	mg/Kg	75 - 125	94.4		86.8		10.7	71		P
Beryllium	mg/Kg	75 - 125	9.99		0.78		10.7	86		P
Cadmium	mg/Kg	75 - 125	10.2		0.097	J	10.7	95		P
Calcium	mg/Kg	75 - 125	987		906		53.5	151		P
Chromium	mg/Kg	75 - 125	37.1		18.4		21.4	87		P
Cobalt	mg/Kg	75 - 125	20.9		10.1		10.7	102		P
Copper	mg/Kg	75 - 125	23.8		9.77		16.1	87		P
Iron	mg/Kg	75 - 125	21000		22500		160	-974		P
Lead	mg/Kg	75 - 125	74.3		23.7		53.5	95		P
Magnesium	mg/Kg	75 - 125	4060		3360		110	639		P
Manganese	mg/Kg	75 - 125	620		615		10.7	51		P
Nickel	mg/Kg	75 - 125	46.3		18.9		26.8	102		P
Potassium	mg/Kg	75 - 125	1450		858		540	109		P
Selenium	mg/Kg	75 - 125	84.7		2.06		110	75		P
Silver	mg/Kg	75 - 125	3.49		0.14	J	4.0	84		P
Sodium	mg/Kg	75 - 125	253		98.7	J	160	97		P
Thallium	mg/Kg	75 - 125	97.3		1.68	J	110	87		P
Vanadium	mg/Kg	75 - 125	38.3		24.9		16.1	83		P
Zinc	mg/Kg	75 - 125	68.6		53.0		10.7	146		P

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metals
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MATRIX SPIKE DUPLICATE SUMMARY

client: CDM Smith **level:** low **sdg no.:** Q2074

contract: CAMP02 **lab code:** CHEM **case no.:** Q2074 **sas no.:** Q2074

matrix: Solid **sample id:** Q2080-01 **client id:** PL-HRH-COMP-01MSD

Percent Solids for Sample: 86.5 **Spiked ID:** Q2080-01MSD **Percent Solids for Spike Sample:** 86.5

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	mg/Kg	75 - 125	11300		9940		98.4	1413		P
Antimony	mg/Kg	75 - 125	14.5		2.51	U	39.4	37	N	P
Arsenic	mg/Kg	75 - 125	37.1		5.09		39.4	81		P
Barium	mg/Kg	75 - 125	96.8		86.8		9.8	102		P
Beryllium	mg/Kg	75 - 125	8.28		0.78		9.8	77		P
Cadmium	mg/Kg	75 - 125	9.13		0.097	J	9.8	92		P
Calcium	mg/Kg	75 - 125	957		906		49.2	104		P
Chromium	mg/Kg	75 - 125	35.6		18.4		19.7	87		P
Cobalt	mg/Kg	75 - 125	20.8		10.1		9.8	109		P
Copper	mg/Kg	75 - 125	22.2		9.77		14.8	84		P
Iron	mg/Kg	75 - 125	23300		22500		150	538		P
Lead	mg/Kg	75 - 125	69.7		23.7		49.2	94		P
Magnesium	mg/Kg	75 - 125	4070		3360		98.4	727		P
Manganese	mg/Kg	75 - 125	564		615		9.8	-519		P
Nickel	mg/Kg	75 - 125	45.6		18.9		24.6	109		P
Potassium	mg/Kg	75 - 125	1560		858		490	144	N	P
Selenium	mg/Kg	75 - 125	77.6		2.06		98.4	77		P
Silver	mg/Kg	75 - 125	3.56		0.14	J	3.7	92		P
Sodium	mg/Kg	75 - 125	261		98.7	J	150	108		P
Thallium	mg/Kg	75 - 125	91.3		1.68	J	98.4	91		P
Vanadium	mg/Kg	75 - 125	36.5		24.9		14.8	78		P
Zinc	mg/Kg	75 - 125	69.2		53.0		9.8	165		P

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Metals
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POST DIGEST SPIKE SUMMARY

Client: CDM Smith **SDG No.:** Q2074

Contract: CAMP02 **Lab Code:** CHEM **Case No.:** Q2074 **SAS No.:** Q2074

Matrix: Solid **Level:** LOW **Client ID:** PL-HRH-COMP-01A

Sample ID: Q2080-01 **Spiked ID:** Q2080-01A

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Antimony	mg/Kg	75 - 125	2.51	U	2.51	U	40.2	0	N	P
Potassium	mg/Kg	75 - 125	857		858		500	0	N	P

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Metals

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DUPLICATE SAMPLE SUMMARY

Client: CDM Smith **Level:** LOW **SDG No.:** Q2074

Contract: CAMP02 **Lab Code:** CHEM **Case No.:** Q2074 **SAS No.:** Q2074

Matrix: Solid **Sample ID:** Q2074-08 **Client ID:** TP-18DUP

Percent Solids for Sample: 78 **Duplicate ID** Q2074-08DUP **Percent Solids for Spike Sample:** 78

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Mercury	mg/Kg	20	0.030		0.024		22		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.:** Q2074

Contract: CAMP02 **Lab Code:** CHEM **Case No.:** Q2074 **SAS No.:** Q2074

Matrix: Solid **Sample ID:** Q2074-08MS **Client ID:** TP-18MSD

Percent Solids for Sample: 78 **Duplicate ID** Q2074-08MSD **Percent Solids for Spike Sample:** 78

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Mercury	mg/Kg	20	0.30		0.34		11		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.:** Q2074

Contract: CAMP02 **Lab Code:** CHEM **Case No.:** Q2074 **SAS No.:** Q2074

Matrix: Solid **Sample ID:** Q2080-01 **Client ID:** PL-HRH-COMP-01DUP

Percent Solids for Sample: 86.5 **Duplicate ID** Q2080-01DUP **Percent Solids for Spike Sample:** 86.5

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	mg/Kg	20	9940		9540		4		P
Antimony	mg/Kg	20	2.51	U	2.74	U			P
Arsenic	mg/Kg	20	5.09		2.98		52	*	P
Barium	mg/Kg	20	86.8		84.4		3		P
Beryllium	mg/Kg	20	0.78		0.63		20		P
Cadmium	mg/Kg	20	0.097	J	0.33	U	200.0		P
Calcium	mg/Kg	20	906		875		3		P
Chromium	mg/Kg	20	18.4		12.9		35	*	P
Cobalt	mg/Kg	20	10.1		9.33		7		P
Copper	mg/Kg	20	9.77		8.49		14		P
Iron	mg/Kg	20	22500		13800		48	*	P
Lead	mg/Kg	20	23.7		21.4		10		P
Magnesium	mg/Kg	20	3360		3430		2		P
Manganese	mg/Kg	20	615		579		6		P
Nickel	mg/Kg	20	18.9		17.7		7		P
Potassium	mg/Kg	20	858		876		2		P
Selenium	mg/Kg	20	2.06		1.08	J	62		P
Silver	mg/Kg	20	0.14	J	0.16	J	14		P
Sodium	mg/Kg	20	98.7	J	93.9	J	5		P
Thallium	mg/Kg	20	1.68	J	0.77	J	74		P
Vanadium	mg/Kg	20	24.9		16.5		41	*	P
Zinc	mg/Kg	20	53.0		53.0		0		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.:** Q2074

Contract: CAMP02 **Lab Code:** CHEM **Case No.:** Q2074 **SAS No.:** Q2074

Matrix: Solid **Sample ID:** Q2080-01MS **Client ID:** PL-HRH-COMP-01MSD

Percent Solids for Sample: 86.5 **Duplicate ID** Q2080-01MSD **Percent Solids for Spike Sample:** 86.5

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	mg/Kg	20	11400		11300		1		P
Antimony	mg/Kg	20	15.4		14.5		6		P
Arsenic	mg/Kg	20	40.6		37.1		9		P
Barium	mg/Kg	20	94.4		96.8		3		P
Beryllium	mg/Kg	20	9.99		8.28		19		P
Cadmium	mg/Kg	20	10.2		9.13		11		P
Calcium	mg/Kg	20	987		957		3		P
Chromium	mg/Kg	20	37.1		35.6		4		P
Cobalt	mg/Kg	20	20.9		20.8		0		P
Copper	mg/Kg	20	23.8		22.2		7		P
Iron	mg/Kg	20	21000		23300		10		P
Lead	mg/Kg	20	74.3		69.7		6		P
Magnesium	mg/Kg	20	4060		4070		0		P
Manganese	mg/Kg	20	620		564		9		P
Nickel	mg/Kg	20	46.3		45.6		2		P
Potassium	mg/Kg	20	1450		1560		7		P
Selenium	mg/Kg	20	84.7		77.6		9		P
Silver	mg/Kg	20	3.49		3.56		2		P
Sodium	mg/Kg	20	253		261		3		P
Thallium	mg/Kg	20	97.3		91.3		6		P
Vanadium	mg/Kg	20	38.3		36.5		5		P
Zinc	mg/Kg	20	68.6		69.2		1		P

"A control limit of ±20% RPD for each matrix applies for sample values greater than 10 times Detection Limit"

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Metals

LABORATORY CONTROL SAMPLE SUMMARY

Client: CDM Smith **SDG No.:** Q2074

Contract: CAMP02 **Lab Code:** CHEM **Case No.:** Q2074 **SAS No.:** Q2074

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB168087BS							
Aluminum	mg/Kg	100	90.2		90	80 - 120	P
Antimony	mg/Kg	40.0	38.5		96	80 - 120	P
Arsenic	mg/Kg	40.0	38.6		96	80 - 120	P
Barium	mg/Kg	10.0	8.52		85	80 - 120	P
Beryllium	mg/Kg	10.0	9.28		93	80 - 120	P
Cadmium	mg/Kg	10.0	9.65		96	80 - 120	P
Calcium	mg/Kg	50.0	45.1	J	90	80 - 120	P
Chromium	mg/Kg	20.0	19.0		95	80 - 120	P
Cobalt	mg/Kg	10.0	9.30		93	80 - 120	P
Copper	mg/Kg	15.0	14.6		97	80 - 120	P
Iron	mg/Kg	150	140		93	80 - 120	P
Lead	mg/Kg	50.0	46.6		93	80 - 120	P
Magnesium	mg/Kg	100	90.0	J	90	80 - 120	P
Manganese	mg/Kg	10.0	9.14		91	80 - 120	P
Nickel	mg/Kg	25.0	23.5		94	80 - 120	P
Potassium	mg/Kg	500	439		88	80 - 120	P
Selenium	mg/Kg	100	97.9		98	80 - 120	P
Silver	mg/Kg	3.8	3.54		93	80 - 120	P
Sodium	mg/Kg	150	137		91	80 - 120	P
Thallium	mg/Kg	100	94.2		94	80 - 120	P
Vanadium	mg/Kg	15.0	13.7		91	80 - 120	P
Zinc	mg/Kg	10.0	9.45		94	80 - 120	P

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Metals

LABORATORY CONTROL SAMPLE SUMMARY

Client: CDM Smith **SDG No.:** Q2074

Contract: CAMP02 **Lab Code:** CHEM **Case No.:** Q2074 **SAS No.:** Q2074

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB168090BS							
Mercury	mg/Kg	0.26	0.26		100	80 - 120	CV

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Metals

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ICP SERIAL DILUTIONS

SAMPLE NO.

TP-18L

Lab Name: Chemtech Consulting Group **Contract:** CAMP02

Lab Code: CHEM **Lb No.:** lb135837 **Lab Sample ID :** Q2074-08L **SDG No.:** Q2074

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	0.030		0.083	U	100.0		CV

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Metals

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ICP SERIAL DILUTIONS

SAMPLE NO.

PL-HRH-COMP-01L

Lab Name: Chemtech Consulting Group **Contract:** CAMP02

Lab Code: CHEM **Lb No.:** lb135892 **Lab Sample ID :** Q2080-01L **SDG No.:** Q2074

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	9940		10700		8		P
Antimony	2.51	U	12.6	U			P
Arsenic	5.09		4.51	J	11		P
Barium	86.8		92.6		7		P
Beryllium	0.78		0.91	J	18		P
Cadmium	0.097	J	1.51	U	100.0		P
Calcium	906		1010		12		P
Chromium	18.4		20.0		9		P
Cobalt	10.1		9.78		3		P
Copper	9.77		11.6		19		P
Iron	22500		23800		6		P
Lead	23.7		23.5		1		P
Magnesium	3360		3730		11		P
Manganese	615		682		11		P
Nickel	18.9		18.7		1		P
Potassium	858		840		2		P
Selenium	2.06		2.19	J	6		P
Silver	0.14	J	2.51	U	100.0		P
Sodium	98.7	J	503	U	100.0		P
Thallium	1.68	J	1.60	J	5		P
Vanadium	24.9		27.7		11		P
Zinc	53.0		58.6		10		P

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metals
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ANALYSIS RUN LOG

Client: CDM Smith **Contract:** CAMP02

Lab code: CHEM **Case no.:** Q2074 **Sas no.:** Q2074 **Sdg no.:** Q2074

Instrument id number: **Method:** **Run number:** LB135837

Start date: 05/20/2025 **End date:** 05/20/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1243	HG
S0.2	S0.2	1	1245	HG
S2.5	S2.5	1	1248	HG
S5	S5	1	1250	HG
S7.5	S7.5	1	1252	HG
S10	S10	1	1255	HG
ICV12	ICV12	1	1258	HG
ICB12	ICB12	1	1300	HG
CCV45	CCV45	1	1303	HG
CCB45	CCB45	1	1305	HG
CRA	CRA	1	1307	HG
CCV46	CCV46	1	1333	HG
CCB46	CCB46	1	1335	HG
PB168090BL	PB168090BL	1	1356	HG
PB168090BS	PB168090BS	1	1358	HG
CCV47	CCV47	1	1401	HG
CCB47	CCB47	1	1403	HG
Q2074-01	TP-12	1	1417	HG
Q2074-02	TP-7	1	1420	HG
Q2074-03	TP-15	1	1422	HG
Q2074-04	TP-20	1	1424	HG
Q2074-05	TP-38	1	1427	HG
CCV48	CCV48	1	1429	HG
CCB48	CCB48	1	1431	HG
Q2074-06	TP-19	1	1433	HG
Q2074-07	TP-40	1	1436	HG
Q2074-08	TP-18	1	1438	HG
Q2074-08DUP	TP-18DUP	1	1440	HG
Q2074-08MS	TP-18MS	1	1442	HG
Q2074-08MSD	TP-18MSD	1	1445	HG
CCV49	CCV49	1	1452	HG
CCB49	CCB49	1	1454	HG
Q2074-08L	TP-18L	5	1501	HG
CCV50	CCV50	1	1505	HG
CCB50	CCB50	1	1508	HG

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ANALYSIS RUN LOG

Client: CDM Smith **Contract:** CAMP02

Lab code: CHEM **Case no.:** Q2074 **Sas no.:** Q2074 **Sdg no.:** Q2074

Instrument id number: **Method:** **Run number:** LB135868

Start date: 05/21/2025 **End date:** 05/21/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1205	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	1209	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	1213	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	1217	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	1222	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	1226	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	1319	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
LLICV01	LLICV01	1	1329	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICB01	ICB01	1	1336	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	1343	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	1352	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	1356	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	1409	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	1413	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	1500	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	1504	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	1602	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	1625	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
PB168087BL	PB168087BL	1	1710	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
PB168087BS	PB168087BS	1	1715	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	1727	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	1732	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	1816	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	1820	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	1908	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	1916	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2074-01	TP-12	1	1936	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2074-02	TP-7	1	1941	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2074-03	TP-15	1	1945	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2074-04	TP-20	1	1949	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2074-05	TP-38	1	1953	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV07	CCV07	1	1957	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB07	CCB07	1	2002	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2074-06	TP-19	1	2006	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2074-07	TP-40	1	2010	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2074-08	TP-18	1	2014	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV08	CCV08	1	2043	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB08	CCB08	1	2048	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV09	CCV09	1	2129	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB09	CCB09	1	2134	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV10	CCV10	1	2150	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn

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metals
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ANALYSIS RUN LOG

Client: CDM Smith **Contract:** CAMP02

Lab code: CHEM **Case no.:** Q2074 **Sas no.:** Q2074 **Sdg no.:** Q2074

Instrument id number: **Method:** **Run number:** LB135868

Start date: 05/21/2025 **End date:** 05/21/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
CCB10	CCB10	1	2154	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn

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metals
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ANALYSIS RUN LOG

Client: CDM Smith **Contract:** CAMP02

Lab code: CHEM **Case no.:** Q2074 **Sas no.:** Q2074 **Sdg no.:** Q2074

Instrument id number: **Method:** **Run number:** LB135892

Start date: 05/22/2025 **End date:** 05/22/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1420	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	1425	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	1429	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	1433	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	1437	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	1442	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	1500	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	1516	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	1520	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	1539	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	1551	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	1555	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2080-01DUP	PL-HRH-COMP-01DUP	1	1605	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2080-01L	PL-HRH-COMP-01L	5	1609	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2080-01MS	PL-HRH-COMP-01MS	1	1613	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2080-01MSD	PL-HRH-COMP-01MSD	1	1617	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2080-01A	PL-HRH-COMP-01A	1	1621	K,Sb
CCV02	CCV02	1	1638	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	1643	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	1728	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	1732	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	1908	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	1912	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.:** Q2074

Contract: CAMP02 **Lab Code:** CHEM **Case No.:** Q2074 **SAS No.:** Q2074

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.:** Q2074

Contract: CAMP02 **Lab Code:** CHEM **Case No.:** Q2074 **SAS No.:** Q2074

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.:** Q2074

Contract: CAMP02 **Lab Code:** CHEM **Case No.:** Q2074 **SAS No.:** Q2074

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.:** Q2074

Contract: CAMP02 **Lab Code:** CHEM **Case No.:** Q2074 **SAS No.:** Q2074

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.:** Q2074

Contract: CAMP02 **Lab Code:** CHEM **Case No.:** Q2074 **SAS No.:** Q2074

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:	Q2074	**OrderDate:**	5/16/2025 3:13:00 PM
Client:	CDM Smith	**Project:**	South River WM Replacement
Contact:	Marcie Ann Encinas	**Location:**	L31,VOA Ref. #2 Soil

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2074-01	**TP-12**	**SOIL**			**05/15/25**			**05/16/25**
			Metals ICP-TAL	6010D		05/20/25	05/21/25	
			Mercury	7471B		05/19/25	05/20/25	
Q2074-02	**TP-7**	**SOIL**			**05/15/25**			**05/16/25**
			Metals ICP-TAL	6010D		05/20/25	05/21/25	
			Mercury	7471B		05/19/25	05/20/25	
Q2074-03	**TP-15**	**SOIL**			**05/15/25**			**05/16/25**
			Metals ICP-TAL	6010D		05/20/25	05/21/25	
			Mercury	7471B		05/19/25	05/20/25	
Q2074-04	**TP-20**	**SOIL**			**05/15/25**			**05/16/25**
			Metals ICP-TAL	6010D		05/20/25	05/21/25	
			Mercury	7471B		05/19/25	05/20/25	
Q2074-05	**TP-38**	**SOIL**			**05/15/25**			**05/16/25**
			Metals ICP-TAL	6010D		05/20/25	05/21/25	
			Mercury	7471B		05/19/25	05/20/25	
Q2074-06	**TP-19**	**SOIL**			**05/15/25**			**05/16/25**
			Metals ICP-TAL	6010D		05/20/25	05/21/25	
			Mercury	7471B		05/19/25	05/20/25	
Q2074-07	**TP-40**	**SOIL**			**05/15/25**			**05/16/25**
			Metals ICP-TAL	6010D		05/20/25	05/21/25	
			Mercury	7471B		05/19/25	05/20/25	
Q2074-08	**TP-18**	**SOIL**			**05/16/25**			**05/16/25**
			Mercury	7471B		05/19/25	05/20/25	
			Metals ICP-TAL	6010D		05/20/25	05/21/25	

METAL PREPARATION & ANALYICAL SUMMARY

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Metals
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SAMPLE PREPARATION SUMMARY

Client: CDM Smith **SDG No.:** Q2074

Contract: CAMP02 **Lab Code:** CHEM **Method:**

Case No.: Q2074 **SAS No.:** Q2074

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(g)	Final Sample Volume (mL)	Percent Solids
Batch Number:	**PB168087**						
PB168087BL	PB168087BL	MB	SOLID	05/20/2025	2.00	100.0	100.00
PB168087BS	PB168087BS	LCS	SOLID	05/20/2025	2.00	100.0	100.00
Q2074-01	TP-12	SAM	SOLID	05/20/2025	2.37	100.0	83.50
Q2074-02	TP-7	SAM	SOLID	05/20/2025	2.22	100.0	88.70
Q2074-03	TP-15	SAM	SOLID	05/20/2025	2.19	100.0	87.00
Q2074-04	TP-20	SAM	SOLID	05/20/2025	2.24	100.0	84.30
Q2074-05	TP-38	SAM	SOLID	05/20/2025	2.19	100.0	81.90
Q2074-06	TP-19	SAM	SOLID	05/20/2025	2.38	100.0	85.90
Q2074-07	TP-40	SAM	SOLID	05/20/2025	2.15	100.0	89.20
Q2074-08	TP-18	SAM	SOLID	05/20/2025	2.09	100.0	78.00
Q2080-01DUP	PL-HRH-COMP-01DUP	DUP	SOLID	05/20/2025	2.11	100.0	86.50
Q2080-01MS	PL-HRH-COMP-01MS	MS	SOLID	05/20/2025	2.16	100.0	86.50
Q2080-01MSD	PL-HRH-COMP-01MSD	MSD	SOLID	05/20/2025	2.35	100.0	86.50

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Metals
- 13 -
SAMPLE PREPARATION SUMMARY

Client: CDM Smith **SDG No.:** Q2074

Contract: CAMP02 **Lab Code:** CHEM **Method:**

Case No.: Q2074 **SAS No.:** Q2074

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(g)	Final Sample Volume (mL)	Percent Solids
Batch Number:	**PB168090**						
PB168090BL	PB168090BL	MB	SOLID	05/19/2025	0.54	35.0	100.00
PB168090BS	PB168090BS	LCS	SOLID	05/19/2025	0.54	35.0	100.00
Q2074-01	TP-12	SAM	SOLID	05/19/2025	0.56	35.0	83.50
Q2074-02	TP-7	SAM	SOLID	05/19/2025	0.51	35.0	88.70
Q2074-03	TP-15	SAM	SOLID	05/19/2025	0.57	35.0	87.00
Q2074-04	TP-20	SAM	SOLID	05/19/2025	0.60	35.0	84.30
Q2074-05	TP-38	SAM	SOLID	05/19/2025	0.51	35.0	81.90
Q2074-06	TP-19	SAM	SOLID	05/19/2025	0.53	35.0	85.90
Q2074-07	TP-40	SAM	SOLID	05/19/2025	0.60	35.0	89.20
Q2074-08	TP-18	SAM	SOLID	05/19/2025	0.54	35.0	78.00
Q2074-08DUP	TP-18DUP	DUP	SOLID	05/19/2025	0.56	35.0	78.00
Q2074-08MS	TP-18MS	MS	SOLID	05/19/2025	0.54	35.0	78.00
Q2074-08MSD	TP-18MSD	MSD	SOLID	05/19/2025	0.55	35.0	78.00

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Instrument ID: CV1

Daily Analysis Runlog For Sequence/QCBatch ID # LB135837

Review By	MOHAN	Review On	5/20/2025 5:33:01 PM
Supervise By	jaswal	Supervise On	5/20/2025 5:34:50 PM

STD. NAME	STD REF.#
ICAL Standard	MP85701,MP85702,MP85703,MP85704,MP85705,MP85706
ICV Standard	MP85707
CCV Standard	MP85709
ICSA Standard	
CRI Standard	MP85711
LCS Standard	
Chk Standard	MP85708,MP85710,MP85712,MP85714

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	05/20/25 12:43		MOHAN	OK
2	S0.2	S0.2	CAL2	05/20/25 12:45		MOHAN	OK
3	S2.5	S2.5	CAL3	05/20/25 12:48		MOHAN	OK
4	S5	S5	CAL4	05/20/25 12:50		MOHAN	OK
5	S7.5	S7.5	CAL5	05/20/25 12:52		MOHAN	OK
6	S10	S10	CAL6	05/20/25 12:55		MOHAN	OK
7	ICV12	ICV12	ICV	05/20/25 12:58		MOHAN	OK
8	ICB12	ICB12	ICB	05/20/25 13:00		MOHAN	OK
9	CCV45	CCV45	CCV	05/20/25 13:03		MOHAN	OK
10	CCB45	CCB45	CCB	05/20/25 13:05		MOHAN	OK
11	CRA	CRA	CRDL	05/20/25 13:07		MOHAN	OK
12	HighStd	HighStd	HIGH STD	05/20/25 13:09		MOHAN	OK
13	ChkStd	ChkStd	SAM	05/20/25 13:12		MOHAN	OK
14	PB168089BL	PB168089BL	MB	05/20/25 13:17		MOHAN	OK
15	PB168089BS	PB168089BS	LCS	05/20/25 13:19		MOHAN	OK
16	Q2052-01	TP-B	SAM	05/20/25 13:21		MOHAN	OK
17	Q2052-01DUP	TP-BDUP	DUP	05/20/25 13:24		MOHAN	OK
18	Q2052-01MS	TP-BMS	MS	05/20/25 13:26		MOHAN	OK

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STD. NAME	STD REF.#
ICAL Standard	MP85701,MP85702,MP85703,MP85704,MP85705,MP85706
ICV Standard	MP85707
CCV Standard	MP85709
ICSA Standard	
CRI Standard	MP85711
LCS Standard	
Chk Standard	MP85708,MP85710,MP85712,MP85714

19	Q2052-01MSD	TP-BMSD	MSD	05/20/25 13:28		MOHAN	OK
20	Q2055-01	OR-02-051525	SAM	05/20/25 13:31		MOHAN	OK
21	CCV46	CCV46	CCV	05/20/25 13:33		MOHAN	OK
22	CCB46	CCB46	CCB	05/20/25 13:35		MOHAN	OK
23	Q2057-01	MH-L	SAM	05/20/25 13:38		MOHAN	OK
24	Q2062-01	L1-WC-1	SAM	05/20/25 13:40		MOHAN	OK
25	Q2062-05	L1-WC-2	SAM	05/20/25 13:42		MOHAN	OK
26	Q2062-09	L1-WC-3	SAM	05/20/25 13:45		MOHAN	OK
27	Q2062-13	L1-WC-4	SAM	05/20/25 13:47		MOHAN	OK
28	Q2062-17	L1-WC-5	SAM	05/20/25 13:49		MOHAN	OK
29	Q2062-21	L1-WC-6	SAM	05/20/25 13:51		MOHAN	OK
30	Q2068-01	LAW-25-0075	SAM	05/20/25 13:54		MOHAN	OK
31	PB168090BL	PB168090BL	MB	05/20/25 13:56		MOHAN	OK
32	PB168090BS	PB168090BS	LCS	05/20/25 13:58		MOHAN	OK
33	CCV47	CCV47	CCV	05/20/25 14:01		MOHAN	OK
34	CCB47	CCB47	CCB	05/20/25 14:03		MOHAN	OK
35	Q2071-01	L1-WC-7	SAM	05/20/25 14:05		MOHAN	OK
36	Q2071-05	L1-WC-8	SAM	05/20/25 14:08		MOHAN	OK
37	Q2071-09	L1-WC-9	SAM	05/20/25 14:10		MOHAN	OK
38	Q2071-13	L2-WC-5	SAM	05/20/25 14:13		MOHAN	OK

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ICV Standard	MP85707
CCV Standard	MP85709
ICSA Standard	
CRI Standard	MP85711
LCS Standard	
Chk Standard	MP85708,MP85710,MP85712,MP85714

39	Q2071-17	L2-WC-6	SAM	05/20/25 14:15		MOHAN	OK
40	Q2074-01	TP-12	SAM	05/20/25 14:17		MOHAN	OK
41	Q2074-02	TP-7	SAM	05/20/25 14:20		MOHAN	OK
42	Q2074-03	TP-15	SAM	05/20/25 14:22		MOHAN	OK
43	Q2074-04	TP-20	SAM	05/20/25 14:24		MOHAN	OK
44	Q2074-05	TP-38	SAM	05/20/25 14:27		MOHAN	OK
45	CCV48	CCV48	CCV	05/20/25 14:29		MOHAN	OK
46	CCB48	CCB48	CCB	05/20/25 14:31		MOHAN	OK
47	Q2074-06	TP-19	SAM	05/20/25 14:33		MOHAN	OK
48	Q2074-07	TP-40	SAM	05/20/25 14:36		MOHAN	OK
49	Q2074-08	TP-18	SAM	05/20/25 14:38		MOHAN	OK
50	Q2074-08DUP	TP-18DUP	DUP	05/20/25 14:40		MOHAN	OK
51	Q2074-08MS	TP-18MS	MS	05/20/25 14:42		MOHAN	OK
52	Q2074-08MSD	TP-18MSD	MSD	05/20/25 14:45		MOHAN	OK
53	Q2080-01	PL-HRH-COMP-01	SAM	05/20/25 14:47		MOHAN	OK
54	Q2080-07	PL-HRH-COMP-02	SAM	05/20/25 14:49		MOHAN	OK
55	CCV49	CCV49	CCV	05/20/25 14:52		MOHAN	OK
56	CCB49	CCB49	CCB	05/20/25 14:54		MOHAN	OK
57	Q2052-01L	TP-BL	SD	05/20/25 14:56		MOHAN	OK
58	Q2052-01A	TP-BA	PS	05/20/25 14:59		MOHAN	OK

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Supervise By	jaswal	Supervise On	5/20/2025 5:34:50 PM

STD. NAME	STD REF.#
ICAL Standard	MP85701,MP85702,MP85703,MP85704,MP85705,MP85706
ICV Standard	MP85707
CCV Standard	MP85709
ICSA Standard	
CRI Standard	MP85711
LCS Standard	
Chk Standard	MP85708,MP85710,MP85712,MP85714

59	Q2074-08L	TP-18L	SD	05/20/25 15:01		MOHAN	OK
60	Q2074-08A	TP-18A	PS	05/20/25 15:03		MOHAN	OK
61	CCV50	CCV50	CCV	05/20/25 15:05		MOHAN	OK
62	CCB50	CCB50	CCB	05/20/25 15:08		MOHAN	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB135868

Review By	Janvi	Review On	5/22/2025 2:51:30 PM
Supervise By	jaswal	Supervise On	5/22/2025 2:52:47 PM

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	05/21/25 12:05		Kareem	OK
2	S1	S1	CAL2	05/21/25 12:09		Kareem	OK
3	S2	S2	CAL3	05/21/25 12:13		Kareem	OK
4	S3	S3	CAL4	05/21/25 12:17		Kareem	OK
5	S4	S4	CAL5	05/21/25 12:22		Kareem	OK
6	S5	S5	CAL6	05/21/25 12:26		Kareem	OK
7	ICV01	ICV01	ICV	05/21/25 13:19		Kareem	OK
8	LLICV01	LLICV01	LLICV	05/21/25 13:29		Kareem	OK
9	ICB01	ICB01	ICB	05/21/25 13:36		Kareem	OK
10	CRI01	CRI01	CRDL	05/21/25 13:43		Kareem	OK
11	ICSA01	ICSA01	ICSA	05/21/25 13:52		Kareem	OK
12	ICSAB01	ICSAB01	ICSAB	05/21/25 13:56		Kareem	OK
13	ICSADL	ICSADL	ICSA	05/21/25 14:00		Kareem	OK
14	ICSABDL	ICSABDL	ICSAB	05/21/25 14:05		Kareem	OK
15	CCV01	CCV01	CCV	05/21/25 14:09		Kareem	OK
16	CCB01	CCB01	CCB	05/21/25 14:13		Kareem	OK
17	Q2068-01	LAW-25-0075	SAM	05/21/25 14:17		Kareem	OK
18	Q2067-01	303-PPR-FRAC	SAM	05/21/25 14:22		Kareem	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB135868

Review By	Janvi	Review On	5/22/2025 2:51:30 PM
Supervise By	jaswal	Supervise On	5/22/2025 2:52:47 PM

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	Q2068-03DL	LAW-25-0074DL	SAM	05/21/25 14:26		Kareem	OK
20	Q2065-01	VACTRUCK-728068	SAM	05/21/25 14:30	Ca High	Kareem	Dilution
21	Q2090-01	001-WILLETS-PT-BL	SAM	05/21/25 14:35		Kareem	OK
22	Q2090-02	002-35TH-AVE(APR)	SAM	05/21/25 14:39		Kareem	OK
23	Q2090-02DUP	002-35TH-AVE(APR)[	DUP	05/21/25 14:44		Kareem	OK
24	Q2090-02L	002-35TH-AVE(APR)L	SD	05/21/25 14:48		Kareem	OK
25	Q2090-02MS	002-35TH-AVE(APR)M	MS	05/21/25 14:52		Kareem	OK
26	Q2090-02MSD	002-35TH-AVE(APR)M	MSD	05/21/25 14:56		Kareem	OK
27	CCV02	CCV02	CCV	05/21/25 15:00		Kareem	OK
28	CCB02	CCB02	CCB	05/21/25 15:04		Kareem	OK
29	Q2065-01DL	VACTRUCK-728068D	SAM	05/21/25 15:09	2X For Still High	Kareem	Dilution
30	Q2090-02A	002-35TH-AVE(APR)A	PS	05/21/25 15:13		Kareem	OK
31	Q2065-01DL2	VACTRUCK-728068D	SAM	05/21/25 15:18	Bad Injection	Kareem	Not Ok
32	Q1984-05	OU4-PCS-TC-35-050	SAM	05/21/25 15:24		Kareem	OK
33	Q1984-07	OU4-TS-24-050725	SAM	05/21/25 15:28		Kareem	OK
34	Q1984-09	OU4-TS-25-050725	SAM	05/21/25 15:37		Kareem	OK
35	Q1984-11	OU4-TS-26-050725	SAM	05/21/25 15:41		Kareem	OK
36	Q1984-13	OU4-TS-27-050725	SAM	05/21/25 15:45		Kareem	OK
37	Q2065-01DL3	VACTRUCK-728068D	SAM	05/21/25 15:53	20X For Ca	Kareem	Confirms
38	Q1984-15	OU4-TS-28-050725	SAM	05/21/25 15:58		Kareem	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB135868

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Supervise By	jaswal	Supervise On	5/22/2025 2:52:47 PM

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	05/21/25 16:02		Kareem	OK
40	CCB03	CCB03	CCB	05/21/25 16:25		Kareem	OK
41	Q1984-15DUP	OU4-TS-28-050725DU	DUP	05/21/25 16:29		Kareem	OK
42	Q1984-15L	OU4-TS-28-050725L	SD	05/21/25 16:34		Kareem	OK
43	Q1984-15MS	OU4-TS-28-050725MS	MS	05/21/25 16:38		Kareem	OK
44	Q1984-15MSD	OU4-TS-28-050725MS	MSD	05/21/25 16:42		Kareem	OK
45	Q1984-15A	OU4-TS-28-050725A	PS	05/21/25 16:46		Kareem	OK
46	PB168085BL	PB168085BL	MB	05/21/25 16:51		Kareem	OK
47	PB168085BS	PB168085BS	LCS	05/21/25 17:05		Kareem	OK
48	PB168087BL	PB168087BL	MB	05/21/25 17:10		Kareem	OK
49	PB168087BS	PB168087BS	LCS	05/21/25 17:15		Kareem	OK
50	PB168086BL	PB168086BL	MB	05/21/25 17:22		Kareem	OK
51	CCV04	CCV04	CCV	05/21/25 17:27		Kareem	OK
52	CCB04	CCB04	CCB	05/21/25 17:32		Kareem	OK
53	PB168086BS	PB168086BS	LCS	05/21/25 17:37		Kareem	OK
54	PB168107BL	PB168107BL	MB	05/21/25 17:41		Kareem	OK
55	PB168107BS	PB168107BS	LCS	05/21/25 17:45		Kareem	OK
56	PB168067TB	PB168067TB	MB	05/21/25 17:49		Kareem	OK
57	Q2071-04	L1-WC-7	SAM	05/21/25 17:53		Kareem	OK
58	Q2071-08	L1-WC-8	SAM	05/21/25 17:58		Kareem	OK

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ICV Standard	MP85553
CCV Standard	MP85556
ICSA Standard	MP85554,MP85555
CRI Standard	MP85552
LCS Standard	
Chk Standard	MP85557,MP85558

59	Q2071-12	L1-WC-9	SAM	05/21/25 18:02		Kareem	OK
60	Q2071-16	L2-WC-5	SAM	05/21/25 18:07		Kareem	OK
61	Q2071-20	L2-WC-6	SAM	05/21/25 18:11		Kareem	OK
62	CCV05	CCV05	CCV	05/21/25 18:16		Kareem	OK
63	CCB05	CCB05	CCB	05/21/25 18:20		Kareem	OK
64	Q2080-06	PL-HRH-COMP-01	SAM	05/21/25 18:24		Kareem	OK
65	Q2080-12	PL-HRH-COMP-02	SAM	05/21/25 18:29		Kareem	OK
66	Q2080-12DUP	PL-HRH-COMP-02DU	DUP	05/21/25 18:33		Kareem	OK
67	Q2080-12L	PL-HRH-COMP-02L	SD	05/21/25 18:37		Kareem	OK
68	Q2080-12MS	PL-HRH-COMP-02MS	MS	05/21/25 18:42		Kareem	OK
69	Q2080-12MSD	PL-HRH-COMP-02MS	MSD	05/21/25 18:46		Kareem	OK
70	Q2080-12A	PL-HRH-COMP-02A	PS	05/21/25 18:50		Kareem	OK
71	Q2070-01	CONCRETE-PAD-051	SAM	05/21/25 18:54		Kareem	OK
72	Q2071-01	L1-WC-7	SAM	05/21/25 18:59		Kareem	OK
73	CCV06	CCV06	CCV	05/21/25 19:08		Kareem	OK
74	CCB06	CCB06	CCB	05/21/25 19:16		Kareem	OK
75	Q2071-05	L1-WC-8	SAM	05/21/25 19:20		Kareem	OK
76	Q2071-09	L1-WC-9	SAM	05/21/25 19:24		Kareem	OK
77	Q2071-13	L2-WC-5	SAM	05/21/25 19:28		Kareem	OK
78	Q2071-17	L2-WC-6	SAM	05/21/25 19:32		Kareem	OK

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ICV Standard	MP85553
CCV Standard	MP85556
ICSA Standard	MP85554,MP85555
CRI Standard	MP85552
LCS Standard	
Chk Standard	MP85557,MP85558

79	Q2074-01	TP-12	SAM	05/21/25 19:36		Kareem	OK
80	Q2074-02	TP-7	SAM	05/21/25 19:41		Kareem	OK
81	Q2074-03	TP-15	SAM	05/21/25 19:45		Kareem	OK
82	Q2074-04	TP-20	SAM	05/21/25 19:49		Kareem	OK
83	Q2074-05	TP-38	SAM	05/21/25 19:53		Kareem	OK
84	CCV07	CCV07	CCV	05/21/25 19:57		Kareem	OK
85	CCB07	CCB07	CCB	05/21/25 20:02		Kareem	OK
86	Q2074-06	TP-19	SAM	05/21/25 20:06		Kareem	OK
87	Q2074-07	TP-40	SAM	05/21/25 20:10		Kareem	OK
88	Q2074-08	TP-18	SAM	05/21/25 20:14		Kareem	OK
89	Q2080-01	PL-HRH-COMP-01	SAM	05/21/25 20:19	Qc Missing	Kareem	Not Ok
90	Q2080-07	PL-HRH-COMP-02	SAM	05/21/25 20:23		Kareem	OK
91	Q2084-01	OR-640-COMP-66	SAM	05/21/25 20:27		Kareem	OK
92	Q2084-01DUP	OR-640-COMP-66DU	DUP	05/21/25 20:31	Wrong Qc Analyzed	Kareem	Not Ok
93	Q2084-01L	OR-640-COMP-66L	SD	05/21/25 20:35	Wrong Qc Analyzed	Kareem	Not Ok
94	Q2084-01MS	OR-640-COMP-66MS	MS	05/21/25 20:39	Wrong Qc Analyzed	Kareem	Not Ok
95	CCV08	CCV08	CCV	05/21/25 20:43		Kareem	OK
96	CCB08	CCB08	CCB	05/21/25 20:48		Kareem	OK
97	Q2084-01MSD	OR-640-COMP-66MS	MSD	05/21/25 20:52	CCV09 Na Fail , Wrong Qc Analyzed	Kareem	Not Ok

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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

98	Q2084-01A	OR-640-COMP-66A	PS	05/21/25 20:56	CCV09 Na Fail , Wrong Qc Analyzed	Kareem	Not Ok
99	Q2072-01	MW-2	SAM	05/21/25 21:00	CCV09 Na Fail	Kareem	Not Ok
100	Q2072-02	MW-3	SAM	05/21/25 21:04	CCV09 Na Fail	Kareem	Not Ok
101	Q2072-03	MW-4	SAM	05/21/25 21:08	CCV09 Na Fail	Kareem	Not Ok
102	Q2072-04	MW-6	SAM	05/21/25 21:13	CCV09 Na Fail	Kareem	Not Ok
103	Q2072-04DUP	MW-6DUP	DUP	05/21/25 21:17	CCV09 Na Fail	Kareem	Not Ok
104	Q2072-04L	MW-6L	SD	05/21/25 21:21	CCV09 Na Fail	Kareem	Not Ok
105	Q2072-04MS	MW-6MS	MS	05/21/25 21:25	CCV09 Na Fail	Kareem	Not Ok
106	CCV09	CCV09	CCV	05/21/25 21:29	Na Fail	Kareem	OK
107	CCB09	CCB09	CCB	05/21/25 21:34		Kareem	OK
108	Q2072-04MSD	MW-6MSD	MSD	05/21/25 21:38	CCV09 Na Fail	Kareem	Not Ok
109	Q2072-04A	MW-6A	PS	05/21/25 21:42	CCV09 Na Fail	Kareem	Not Ok
110	Q2072-05	FB	SAM	05/21/25 21:46	CCV09 Na Fail	Kareem	Not Ok
111	CCV10	CCV10	CCV	05/21/25 21:50		Kareem	OK
112	CCB10	CCB10	CCB	05/21/25 21:54		Kareem	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 # LB135892

Review By	Janvi	Review On	5/27/2025 6:16:44 PM
Supervise By	jaswal	Supervise On	5/28/2025 12:46:23 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	
LCS Standard	
Chk Standard	MP85552

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	05/22/25 14:20		Jaswal	OK
2	S1	S1	CAL2	05/22/25 14:25		Jaswal	OK
3	S2	S2	CAL3	05/22/25 14:29		Jaswal	OK
4	S3	S3	CAL4	05/22/25 14:33		Jaswal	OK
5	S4	S4	CAL5	05/22/25 14:37		Jaswal	OK
6	S5	S5	CAL6	05/22/25 14:42		Jaswal	OK
7	ICV01	ICV01	ICV	05/22/25 15:00		Jaswal	OK
8	LLICV01	LLICV01	LLICV	05/22/25 15:16		Jaswal	OK
9	ICB01	ICB01	ICB	05/22/25 15:20		Jaswal	OK
10	CRI01	CRI01	CRDL	05/22/25 15:30		Jaswal	OK
11	ICSA01	ICSA01	ICSA	05/22/25 15:34		Jaswal	OK
12	ICSAB01	ICSAB01	ICSAB	05/22/25 15:39		Jaswal	OK
13	ICSADL	ICSADL	ICSA	05/22/25 15:43		Jaswal	OK
14	ICSABDL	ICSABDL	ICSAB	05/22/25 15:47		Jaswal	OK
15	CCV01	CCV01	CCV	05/22/25 15:51		Jaswal	OK
16	CCB01	CCB01	CCB	05/22/25 15:55		Jaswal	OK
17	Q2080-01	PL-HRH-COMP-01	SAM	05/22/25 16:00		Jaswal	OK
18	Q2080-01DUP	PL-HRH-COMP-01DU	DUP	05/22/25 16:05		Jaswal	OK

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB135892

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Supervise By	jaswal	Supervise On	5/28/2025 12:46:23 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	
LCS Standard	
Chk Standard	MP85552

19	Q2080-01L	PL-HRH-COMP-01L	SD	05/22/25 16:09		Jaswal	OK
20	Q2080-01MS	PL-HRH-COMP-01MS	MS	05/22/25 16:13		Jaswal	OK
21	Q2080-01MSD	PL-HRH-COMP-01MS	MSD	05/22/25 16:17		Jaswal	OK
22	Q2080-01A	PL-HRH-COMP-01A	PS	05/22/25 16:21		Jaswal	OK
23	PB168113BL	PB168113BL	MB	05/22/25 16:25		Jaswal	OK
24	PB168113BS	PB168113BS	LCS	05/22/25 16:29		Jaswal	OK
25	PB168106BL	PB168106BL	MB	05/22/25 16:33		Jaswal	OK
26	CCV02	CCV02	CCV	05/22/25 16:38		Jaswal	OK
27	CCB02	CCB02	CCB	05/22/25 16:43		Jaswal	OK
28	PB168106BS	PB168106BS	LCS	05/22/25 16:49		Jaswal	OK
29	PB168117BL	PB168117BL	MB	05/22/25 16:53		Jaswal	OK
30	PB168117BS	PB168117BS	LCS	05/22/25 16:57		Jaswal	OK
31	Q2078-03	WC-A4-04-C	SAM	05/22/25 17:01		Jaswal	OK
32	Q2078-07	WC-A4-05-C	SAM	05/22/25 17:06		Jaswal	OK
33	Q2078-11	WC-A1-06A-C	SAM	05/22/25 17:10		Jaswal	OK
34	Q2078-15	WC-A1-07A-C	SAM	05/22/25 17:14		Jaswal	OK
35	Q2078-19	WC-A4-06-C	SAM	05/22/25 17:19		Jaswal	OK
36	Q2079-03	WC-A2-01-C	SAM	05/22/25 17:23		Jaswal	OK
37	CCV03	CCV03	CCV	05/22/25 17:28		Jaswal	OK
38	CCB03	CCB03	CCB	05/22/25 17:32		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 # LB135892

Review By	Janvi	Review On	5/27/2025 6:16:44 PM
Supervise By	jaswal	Supervise On	5/28/2025 12:46:23 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	
LCS Standard	
Chk Standard	MP85552

39	Q2079-07	WC-A2-02-C	SAM	05/22/25 17:36		Jaswal	OK
40	Q2079-11	WC-A2-03-C	SAM	05/22/25 17:41		Jaswal	OK
41	Q2084-05	OR-640-COMP-66	SAM	05/22/25 17:45		Jaswal	OK
42	Q2087-01	NB-07-05202025	SAM	05/22/25 17:49		Jaswal	OK
43	Q2087-03	NB-08-05202025	SAM	05/22/25 17:54		Jaswal	OK
44	Q2014-08	MOO-25-0145	SAM	05/22/25 17:58	Prep not assing	Jaswal	Not Ok
45	Q2092-02	VNJ-202	SAM	05/22/25 18:02		Jaswal	OK
46	Q2093-02	SOIL-DRUM	SAM	05/22/25 18:07		Jaswal	OK
47	Q2094-06	COMP-1	SAM	05/22/25 18:11		Jaswal	OK
48	CCV04	CCV04	CCV	05/22/25 19:08		Jaswal	OK
49	CCB04	CCB04	CCB	05/22/25 19:12		Jaswal	OK

Alliance TECHNICAL GROUP

Soil/Sludge Metals Preparation Sheet

PB168087

SOP ID : M3050B-Digestion-20

SDG No : N/A

Start Digest Date: 05/20/2025 **Time :** 12:15 **Temp :** 96 °C

Matrix : SOIL

End Digest Date: 05/20/2025 **Time :** 14:20 **Temp :** 96 °C

Pippete ID: ICP A

Digestion tube ID: M6054

Balance ID : M SC-2

Block thermometer ID: MET-DIG. #3

Filter paper ID : N/A

Dig Technician Signature: SKB.

pH Strip ID : N/A

Supervisor Signature: JPP

Hood ID : #3

Temp : **1.** 96°C **2.** N/A

Block ID: **1.** HOT BLOCK #3 **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#3 CELL#35 96 C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
05/20/25 15:20	SKB. met dig	JPP / Met lab
	Preparation Group	**Analysis Group**

Alliance TECHNICAL GROUP

Soil/Sludge Metals Preparation Sheet

PB168087

Lab Sample ID	Client Sample ID	pH	Initial Weight (g)	Final Vol (ml)	Color Before	Color After	Texture	Artifact	Comment	Prep Pos
PB168087BL	PBS087	N/A	2.00	100	Colorless	Colorless	Fine	N/A	N/A	1
PB168087BS	LCS087	N/A	2.00	100	Colorless	Colorless	Fine	N/A	M6005,M6016	2
Q2068-01	LAW-25-0075	N/A	2.12	100	Brown	Yellow	Medium	N/A	N/A	3
Q2070-01	CONCRETE-PAD-05162025	N/A	2.36	100	Brown	Yellow	Medium	N/A	N/A	4
Q2071-01	L1-WC-7	N/A	2.14	100	Brown	Yellow	Medium	N/A	N/A	5
Q2071-05	L1-WC-8	N/A	2.13	100	Brown	Yellow	Medium	N/A	N/A	6
Q2071-09	L1-WC-9	N/A	2.36	100	Brown	Yellow	Medium	N/A	N/A	7
Q2071-13	L2-WC-5	N/A	2.36	100	Brown	Yellow	Medium	N/A	N/A	8
Q2071-17	L2-WC-6	N/A	2.35	100	Brown	Yellow	Medium	N/A	N/A	9
Q2074-01	TP-12	N/A	2.37	100	Brown	Yellow	Medium	N/A	N/A	10
Q2074-02	TP-7	N/A	2.22	100	Brown	Yellow	Medium	N/A	N/A	11
Q2074-03	TP-15	N/A	2.19	100	Brown	Yellow	Medium	N/A	N/A	12
Q2074-04	TP-20	N/A	2.24	100	Brown	Yellow	Medium	N/A	N/A	13
Q2074-05	TP-38	N/A	2.19	100	Brown	Yellow	Medium	N/A	N/A	14
Q2074-06	TP-19	N/A	2.38	100	Brown	Yellow	Medium	N/A	N/A	15
Q2074-07	TP-40	N/A	2.15	100	Brown	Yellow	Medium	N/A	N/A	16
Q2074-08	TP-18	N/A	2.09	100	Brown	Yellow	Medium	N/A	N/A	17
Q2080-01	PL-HRH-COMP-01	N/A	2.30	100	Brown	Yellow	Medium	N/A	N/A	18
Q2080-01MS	PL-HRH-COMP-01MS	N/A	2.16	100	Brown	Yellow	Medium	N/A	M6005,M6016	20
Q2080-01MSD	PL-HRH-COMP-01MSD	N/A	2.35	100	Brown	Yellow	Medium	N/A	M6005,M6016	21
Q2080-01DUP	PL-HRH-COMP-01DUP	N/A	2.11	100	Brown	Yellow	Medium	N/A	N/A	19
Q2080-07	PL-HRH-COMP-02	N/A	2.40	100	Brown	Yellow	Medium	N/A	N/A	22
Q2084-01	OR-640-COMP-66	N/A	2.20	100	Brown	Yellow	Medium	N/A	N/A	23

Alliance TECHNICAL GROUP

Soil/Sludge Mercury Preparation Sheet

PB168090

SOP ID : M7471B-Mercury-18

SDG No : N/A

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: 05/19/2025 **Time :** 13:50 **Temp :** 94 °C

End Digest Date: 05/19/2025 **Time :** 14:20 **Temp :** 94 °C

Digestion tube ID: M5595

Block thermometer ID: HG-DIG#3

Dig Technician Signature:

Supervisor Signature:

Temp : 1. 94°C 2. N/A

Standared Name	MLS USED	STD REF. # FROM LOG
ICV	30mL	MP85707
CCV	30mL	MP85709
CRA	30mL	MP85711
Blank Spike	0.48mL	MP85700
Matrix Spike	0.48mL	MP85700

Chemical Used	ML/SAMPLE USED	Lot Number
AQUA REGIA	1.5mL	MP85713
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	MP85701
0.05 ppb	S0.05	N/A	N/A
0.2 ppb	S0.2	30mL	MP85702
2.5 ppb	S2.5	30mL	MP85703
5.0 ppb	S5.0	30mL	MP85704
7.5 ppb	S7.5	30mL	MP85705
10.0 ppb	S10.0	30mL	MP85706
ICV	ICV	30mL	MP85707
ICB	ICB	30mL	MP85708
CCV	CCV	30mL	MP85709
CCB	CCB	30mL	MP85710
CRI	CRI	30mL	MP85711
CHK STD	CHK STD	30mL	MP85712

Extraction Conformance/Non-Conformance Comments:

N/A

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
5/19/25 @ 15:00	MD ~ Dig. Lab	MB ~ Metals Lab
	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

Soil/Sludge Mercury Preparation Sheet

PB168090

Lab Sample ID	Client Sample ID	Initial Weight (g)	Final Vol (ml)	pH	Comment	Prep Pos
PB168090BL	PBS090	0.54	35	NA	N/A	3-16
PB168090BS	LCS090	0.54	35	NA	MP85700	17
Q2071-01	L1-WC-7	0.53	35	NA	N/A	18
Q2071-05	L1-WC-8	0.58	35	NA	N/A	19
Q2071-09	L1-WC-9	0.54	35	NA	N/A	20
Q2071-13	L2-WC-5	0.52	35	NA	N/A	21
Q2071-17	L2-WC-6	0.58	35	NA	N/A	22
Q2074-01	TP-12	0.56	35	NA	N/A	23
Q2074-02	TP-7	0.51	35	NA	N/A	24
Q2074-03	TP-15	0.57	35	NA	N/A	25
Q2074-04	TP-20	0.60	35	NA	N/A	26
Q2074-05	TP-38	0.51	35	NA	N/A	27
Q2074-06	TP-19	0.53	35	NA	N/A	28
Q2074-07	TP-40	0.60	35	NA	N/A	29
Q2074-08	TP-18	0.54	35	NA	N/A	30
Q2074-08DUP	TP-18DUP	0.56	35	NA	N/A	31
Q2074-08MS	TP-18MS	0.54	35	NA	MP85700	32
Q2074-08MSD	TP-18MSD	0.55	35	NA	MP85700	33
Q2080-01	PL-HRH-COMP-01	0.57	35	NA	N/A	34
Q2080-07	PL-HRH-COMP-02	0.54	35	NA	N/A	35

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. Q2074
COC Number 2047107

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.: 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 4 (QC + Full Raw Data)
- ☒ Level 2 (Results + QC)
- ☒ NJ Reduced ☐ US EPA CLP
- ☐ Level 3 (Results + QC + Raw Data)
- ☐ NYS ASP A ☐ NYS ASP B
- ☐ Other _____
- ☐ EDD FORMAT _____

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-12	SOIL		X	5/15/25	0800	6	X	X	X	X	X	X	X			E
2.	TP-7	SOIL		X	5/15/25	0920	6	X	X	X	X	X	X	X			E
3.	TP-15	SOIL		X	5/15/25	1035	6	X	X	X	X	X	X	X			E
4.	TP-20	SOIL		X	5/15/25	1115	6	X	X	X	X	X	X	X			E
5.	TP-35	SOIL		X	5/15/25	1200	6	X	X	X	X	X	X	X			E
6.	TP-19	SOIL		X	5/15/25	1415	6	X	X	X	X	X	X	X			E
7.	TP-40	SOIL		X	5/15/25	1450	6	X	X	X	X	X	X	X			E
8.	TP-18	SOIL		X	5/16/25	1010	6	X	X	X	X	X	X	X			E
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.	5/16/25 1500	1. 5-16-25 1500
RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:
2.		2.
RELINQUISHED BY SAMPLER:	DATE/TIME: 1759 5.16.25	RECEIVED BY:
3.		3.

Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP 3-1 °C
Comments:

Page ____ of

CLIENT: ☐ Hand Delivered ☐ Other

Shipment Complete ☐ YES ☐ NO

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WHITE - ALLIANCE COPY FOR RETURN TO CLIENT YELLOW - ALLIANCE COPY PINK - SAMPLER COPY

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Laboratory Certification

Certified By	License No.
CAS EPA CLP Contract	68HERH20D0011
Connecticut	PH-0830
DOD ELAP (ANAB)	L2219
Maine	2024021
Maryland	296
New Hampshire	255424 Rev 1
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	T104704488

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

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q2074 CAMP02
Client Name : CDM Smith
Client Contact : Marcie Ann Encinas
Invoice Name : CDM Smith
Invoice Contact : Marcie Ann Encinas

Order Date : 5/16/2025 3:13:00 PM
Project Name : South River WM Replacem
Receive DateTime : 5/16/2025 ~~12:00:00~~ AM 17:39
Purchase Order :

Project Mgr :
Report Type : ~~Level I~~ NJ Reduced/
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
Q2074-01	TP-12	Solid	~~05/16/2025~~ 05/15/2025	08:00	VOC-TCLVOA-10		8260D	10 Bus. Days	
Q2074-02	TP-7	Solid	~~05/16/2025~~ 05/15/2025	09:20	VOC-TCLVOA-10		8260D	10 Bus. Days	
Q2074-03	TP-15	Solid	~~05/16/2025~~ 05/15/2025	10:35	VOC-TCLVOA-10		8260D	10 Bus. Days	
Q2074-04	TP-20	Solid	~~05/16/~~2025 05/15/2025	11:15	VOC-TCLVOA-10		8260D	10 Bus. Days	
Q2074-05	TP-38	Solid	~~05/16/2025~~ 05/15/2025	12:00	VOC-TCLVOA-10		8260D	10 Bus. Days	
Q2074-06	TP-19	Solid	~~05/16/2025~~ 05/15/2025	14:15	VOC-TCLVOA-10		8260D	10 Bus. Days	
Q2074-07	TP-40	Solid	~~05/16/2025~~ 05/15/2025	14:50	VOC-TCLVOA-10		8260D	10 Bus. Days	
Q2074-08	TP-18	Solid	05/16/2025	10:10					

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

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q2074 CAMP02
Client Name : CDM Smith
Client Contact : Marcie Ann Encinas
Invoice Name : CDM Smith
Invoice Contact : Marcie Ann Encinas

Order Date : 5/16/2025 3:13:00 PM
Project Name : South River WM Replacem
Receive DateTime : 5/16/2025 ~~12:00:00~~ AM
Purchase Order : 17:39

Project Mgr :
Report Type : ~~Level 1~~ NJ Reduced/
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
					VOC-TCLVOA-10		8260D	10 Bus. Days	

Relinguished By :
Date / Time : 5/19/25 11:30

Received By :
Date / Time : 05/19/25 11:30
Storage Area : VOA Refridgerator Room