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

DATA PACKAGE

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

PROJECT NAME : RT. 10 WHIPPANY

UNION PAVING & CONSTRUCTION COMPANY

1140 Globe Avenue

Mountainside, NJ - 07092

Phone No: 908-232-4100

ORDER ID : P4663

ATTENTION : Gregory Butler

Laboratory Certification ID # 20012

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DATA OF KNOWN QUALITY CONFORMANCE/NON-CONFORMANCE SUMMARY QUESTIONNAIRE

Laboratory Name : Alliance Technical Group LLC

Client : Union Paving & Construction Company

Project Location : NJ

Project Number : - Rt. 10 Whippany

Laboratory Sample ID(s) : P4663

Sampling Date(s) : 10/31/2024

List DKQP Methods Used (e.g., 8260,8270, et Cetra) **,6010D,7196A,7471B,8015D,8081B,8082A,8151A,8260D,8270E,9012B,NJEPH**

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

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

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Cover Page

Order ID : P4663

Project ID : Rt. 10 Whippany

Client : Union Paving & Construction Company

Lab Sample Number	Client Sample Number
P4663-01	TENNANT-PAD-2-3-STOCKPILE
P4663-02	TENNANT-PAD-2-3-STOCKPILE
P4663-03	RES-BUILDING-PAD-NO-11
P4663-04	RES-BUILDING-PAD-NO-11
P4663-05	RES-BUILDING-PAD-NO-3
P4663-06	RES-BUILDING-PAD-NO-3
P4663-07	RES-BUILDING-PAD-NO-2
P4663-08	RES-BUILDING-PAD-NO-2

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 : N. N. Pandya

APPROVED

Date: 11/15/2024

By Nimisha Pandya, QA/QC Supervisor at 11:55 am, Nov 18, 2024

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

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CASE NARRATIVE

Union Paving & Construction Company
Project Name: Rt. 10 Whippany
Project # N/A
Chemtech Project # P4663
Test Name: VOCMS Group1

A. Number of Samples and Date of Receipt:
8 Solid samples were received on 10/31/2024.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: Cyanide, EPH_NF, Herbicide, Hexavalent Chromium, Mercury, Metals ICP-TAL, METALS-TAL, PCB, Pesticide-TCL, SVOCMS Group1, TPH GC, Trivalent Chromium and VOCMS Group1. This data package contains results for VOCMS Group1.

C. Analytical Techniques:
The analysis performed on instrument MSVOA_Y were done using GC column Rxi-624Sil MS, which is 30 meters, 0.25 mm id, 1.4 um df, Restek Cat. #13868. The Trap was supplied by Supelco, VOCARB 3000, ATOMAX XYZ Concentrator.The analysis of VOCMS Group1 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 met requirements for all samples .
The Blank Spike Duplicate met requirements for all samples .
The Blank analysis did not indicate the presence of lab contamination.
The Initial Calibration met the requirements .
The Continuous Calibration met the requirements .
The Tuning criteria met requirements.

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

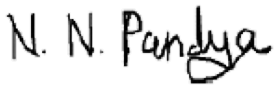
Trip Blank was not provided with this set of samples.
The soil samples results are based on a dry weight basis.

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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 11:55 am, Nov 18, 2024

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CASE NARRATIVE

Union Paving & Construction Company
Project Name: Rt. 10 Whippany
Project # N/A
Chemtech Project # P4663
Test Name: SVOCMS Group1

A. Number of Samples and Date of Receipt:
8 Solid samples were received on 10/31/2024.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: Cyanide, EPH_NF, Herbicide, Hexavalent Chromium, Mercury, Metals ICP-TAL, METALS-TAL, PCB, Pesticide-TCL, SVOCMS Group1, TPH GC, Trivalent Chromium and VOCMS Group1. This data package contains results for SVOCMS Group1.

C. Analytical Techniques:
The samples were analyzed on instrument BNA_E using GC Column ZB-SemiVolatiles Guardian which is 30 meters, 0.25 mm ID, 0.5 um df, Catalog # 7HG-G027-17-GGAThe 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 SVOCMS Group1 was based on method 8270E and extraction was done based on method 3541.

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

The MS {P4663-08MS} with File ID: BF140209.D recoveries met the requirements for all compounds except for 4,6-Dinitro-2-methylphenol[139%], 4-Chloroaniline[43%], bis(2-Ethylhexyl)phthalate[167%], Di-n-octyl phthalate[133%], Hexachlorocyclopentadiene[164%] these compounds did not meet the NJDKQP criteria but met the in-house criteria and Butylbenzylphthalate[150%] this compound did not meet the NJDKQP criteria and in-house criteria due to matrix interference.

The MSD {P4663-08MSD} with File ID: BF140210.D recoveries met the acceptable requirements except for 4,6-Dinitro-2-methylphenol[150%], 4-Chloroaniline[46%], Di-n-octyl phthalate[144%], Hexachlorocyclopentadiene[169%] these compounds did not meet the NJDKQP criteria but met the in-house criteria and Butylbenzylphthalate[167%], bis(2-Ethylhexyl)phthalate[183%] these compounds did not meet the NJDKQP criteria and in-house criteria due to matrix interference.

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The RPD met criteria .

The Blank Spike for {PB164593BS} with File ID: BE101455.D met requirements for all samples except for 3-Nitroaniline[65%] this compound did not meet the NJDKQP criteria but met the in-house criteria and Hexachlorocyclopentadiene[215%] this compound did not meet the NJDKQP criteria and in-house criteria but no positive hits in associated samples therefore no corrective action taken.

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

The % RSD is greater than 20% in the Initial Calibration (Method 8270-BE102824.M) for 2,4-Dinitrophenol, this compound is passing on Linear Regression.

The % RSD is greater than 20% in the Initial Calibration (Method 8270-BF101824.M) for 2,4-Dinitrophenol, this compound is passing on Linear Regression.

The Continuous Calibration File ID BF140200.D met the requirements except for 2,4-Dinitrophenol, 2,4-Dinitrotoluene, 2-Nitrophenol, 4,6-Dinitro-2-methylphenol, 4-Nitroaniline, 4-Nitrophenol, Bis(2-ethylhexyl)phthalate, Butylbenzylphthalate and Di-n-octyl phthalate but no positive hits in associated samples therefore no corrective action taken.

The Tuning criteria met requirements.

E. Additional Comments:
For sample # TENNANT-PAD-2-3-STOCKPILE some compounds below Method detection limits, therefore it is not reported as Hit in Form-1.

The Form 6 is not included in the data package because the Initial Calibration was performed using 8 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 <15% 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 > 15% for the Initial Calibration curve for SW-846 analysis.

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

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Signature N. N. Pandya

APPROVED

By Nimisha Pandya, QA/QC Supervisor at 11:55 am, Nov 18, 2024

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CASE NARRATIVE

Union Paving & Construction Company
Project Name: Rt. 10 Whippany
Project # N/A
Chemtech Project # P4663
Test Name: Pesticide-TCL

A. Number of Samples and Date of Receipt:
8 Solid samples were received on 10/31/2024.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: Cyanide, EPH_NF, Herbicide, Hexavalent Chromium, Mercury, Metals ICP-TAL, METALS-TAL, PCB, Pesticide-TCL, SVOCMS Group1, TPH GC, Trivalent Chromium and VOCMS Group1. This data package contains results for Pesticide-TCL.

C. Analytical Techniques:
The analysis was performed on instrument ECD_L. The front column is ZB-MR2 which is 30 meters, 0.32 mm ID, 0.25 um df, Catalog #: 7HMG017- 11 The rear column is ZB-MR1 which is 30 meters, 0.32 mm ID, 0. 5 um df,: Catalog # 7HM-G016-17. .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 for {P4663-08MS} with File ID: PL092810.D met requirements for all samples except for delta-BHC[25%],this compound did not meet the NJDKQP criteria and in-house criteria due to matrix interference.

The MSD {P4663-08MSD} with File ID: PL092811.D recoveries met requirements for all samples except for delta-BHC[25%]this compound did not meet the NJDKQP criteria and in-house criteria 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 .

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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 N. N. Pandya

APPROVED
By Nimisha Pandya, QA/QC Supervisor at 11:56 am, Nov 18, 2024

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CASE NARRATIVE

Union Paving & Construction Company
Project Name: Rt. 10 Whippany
Project # N/A
Chemtech Project # P4663
Test Name: PCB

A. Number of Samples and Date of Receipt:
8 Solid samples were received on 10/31/2024.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: Cyanide, EPH_NF, Herbicide, Hexavalent Chromium, Mercury, Metals ICP-TAL, METALS-TAL, PCB, Pesticide-TCL, SVOCMS Group1, TPH GC, Trivalent Chromium and VOCMS Group1. 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.

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

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Signature N. N. Pandya

APPROVED

By Nimisha Pandya, QA/QC Supervisor at 11:56 am, Nov 18, 2024

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CASE NARRATIVE

Union Paving & Construction Company
Project Name: Rt. 10 Whippany
Project # N/A
Chemtech Project # P4663
Test Name: Herbicide

A. Number of Samples and Date of Receipt:
8 Solid samples were received on 10/31/2024.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: Cyanide, EPH_NF, Herbicide, Hexavalent Chromium, Mercury, Metals ICP-TAL, METALS-TAL, PCB, Pesticide-TCL, SVOCMS Group1, TPH GC, Trivalent Chromium and VOCMS Group1. 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 except for CC0R8MS [2,4-DCAA(2) - 51%], CC0R8MSD [2,4-DCAA(2) - 51%], TENNANT-PAD-2-3-STOCKPILE [2,4-DCAA(1) - 56%, 2,4-DCAA(2) - 51%], RES-BUILDING-PAD-NO-11 [2,4-DCAA(1) - 54%, 2,4-DCAA(2) - 49%], RES-BUILDING-PAD-NO-3 [2,4-DCAA(1) - 50%, 2,4-DCAA(2) - 39%], RES-BUILDING-PAD-NO-2 [2 and4-DCAA(2) - 66%]these compounds did not meet the NJDKQP criteria but met the in-house criteria .

The Retention Times were acceptable for all samples.

The MS {P4602-44MS} with File ID: PS028408.D recoveries met the requirements for all compounds except for 2,4,5-T[27%], 2,4,5-TP(Silvex)[16%], 2,4-D[50%], 2,4-DB[29%], DICAMBA[43%], DICHLORPROP[26%]these compounds did not meet the NJDKQP criteria but met the in-house criteria and Dinoseb[0%]this compound did not meet the NJDKQP criteria and in-house criteria due to sample matrix interference.

The MSD {P4602-45MSD} with File ID: PS028409.D recoveries met the acceptable requirements except for 2,4,5-T[28%], 2,4,5-TP(Silvex)[16%], 2,4-D[50%], 2,4-

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DB[29%], DICAMBA[43%], DICHLORPROP[26%]these compounds did not meet the NJDKQP criteria but met the in-house criteria and Dinoseb[0%]this compound did not meet the NJDKQP criteria and in-house criteria due to sample 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 File ID PS028237.D met the requirements except for 2,4,5-T,2,4,5-TP (Silvex),2,4-D,2,4-DB,2,4-DCAA,DICAMBA,DICHLORPROP,DINOSEB is failing in 1st column but it is passing in 2nd column also associated samples not having any positive hit therefore no corrective action taken.

E. Additional Comments:
Fax and Hardcopy data will not match for all samples as Fax samples analyzed in sequence PS110424 where CCAL having F flag as a corrective action sample reanalyzed and reported in hardcopy and fax data From sequence PS110424 provided in Miscellaneous Section.

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 N. N. Pandya

APPROVED
By Nimisha Pandya, QA/QC Supervisor at 11:57 am, Nov 18, 2024

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CASE NARRATIVE

Union Paving & Construction Company
Project Name: Rt. 10 Whippany
Project # N/A
Chemtech Project # P4663
Test Name: TPH GC

A. Number of Samples and Date of Receipt:
8 Solid samples were received on 10/31/2024.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: Cyanide, EPH_NF, Herbicide, Hexavalent Chromium, Mercury, Metals ICP-TAL, METALS-TAL, PCB, Pesticide-TCL, SVOCMS Group1, TPH GC, Trivalent Chromium and VOCMS Group1. This data package contains results for TPH GC.

C. Analytical Techniques:
The analysis were performed on instrument FID_G. The column is RXI-1MS which is 20 meters, 0.18mm ID, 0.18 um df, catalog 13302.The analysis of TPH GC was based on method 8015D and extraction was done based on method 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 {P4663-08MS} with File ID: FG014629.D recoveries met the requirements for all compounds except for Petroleum Hydrocarbons[-3%] due to sample matrix interference.

The MSD {P4663-08MSD} with File ID: FG014630.D recoveries met the acceptable requirements except for Petroleum Hydrocarbons[-4%] due to sample matrix interference.

The RPD for {P4663-08MSD} with File ID: FG014630.D met criteria except for Petroleum Hydrocarbons[47.1%]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 N. N. Pandya

APPROVED
By Nimisha Pandya, QA/QC Supervisor at 11:57 am, Nov 18, 2024

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CASE NARRATIVE

Union Paving & Construction Company
Project Name: Rt. 10 Whippany
Project # N/A
Chemtech Project # P4663
Test Name: EPH_NF

A. Number of Samples and Date of Receipt:
8 Solid samples were received on 10/31/2024.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: Cyanide, EPH_NF, Herbicide, Hexavalent Chromium, Mercury, Metals ICP-TAL, METALS-TAL, PCB, Pesticide-TCL, SVOCMS Group1, TPH GC, Trivalent Chromium and VOCMS Group1. This data package contains results for EPH_NF.

C. Analytical Techniques:
The analysis were performed on instrument FID_E. The column is RXI-1MS which is 20 meters, 0.18mm ID, 0.18 um df, catalog 10224.The analysis of EPH_NFs was based on method NJEPH 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 Spike Duplicate met requirements for all samples .
The Blank analysis did not indicate the presence of lab contamination.
The Initial Calibration met the requirements .
The Continuous Calibration met the requirements .

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

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

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Signature_____

APPROVED

By Nimisha Pandya, QA/QC Supervisor at 11:57 am, Nov 18, 2024

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

CASE NARRATIVE

Union Paving & Construction Company
Project Name: Rt. 10 Whippany
Project # N/A
Chemtech Project # P4663
Test Name: Metals ICP-TAL,Mercury

A. Number of Samples and Date of Receipt:
8 Solid samples were received on 10/31/2024.

B. Parameters:
According to the Chain of Custody document, the following analyses were requested: Cyanide, EPH_NF, Herbicide, Hexavalent Chromium, Mercury, Metals ICP-TAL, METALS-TAL, PCB, Pesticide-TCL, SVOCMS Group1, TPH GC, Trivalent Chromium and VOCMS Group1. This data package contains results for Metals ICP-TAL,Mercury.

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 analysis met criteria for all samples.
The Matrix Spike (BP-F25MS) analysis met criteria for all samples except for Antimony due to Chemical Interference during digestion Process.
The Matrix Spike Duplicate (BP-F25MSD) analysis met criteria for all samples except for Antimony, Copper, Sodium and Zinc due to Chemical Interference during Digestion Process.
The Blank analysis did not indicate the presence of lab contamination.
The Calibration met the requirements.
The Serial Dilution (BP-F25L) met criteria for all samples except for Calcium, Chromium, Copper, Magnesium, and Manganese due to sample matrix interference.

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 N. N. Pandya

APPROVED
By Nimisha Pandya, QA/QC Supervisor at 11:58 am, Nov 18, 2024

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

CASE NARRATIVE

Union Paving & Construction Company
Project Name: Rt. 10 Whippany
Project # N/A
Chemtech Project # P4663
Test Name: Hexavalent Chromium,Cyanide,Trivalent Chromium

A. Number of Samples and Date of Receipt:
8 Solid samples were received on 10/31/2024.

B. Parameters:
According to the Chain of Custody document, the following analyses were requested: Cyanide, EPH_NF, Herbicide, Hexavalent Chromium, Mercury, Metals ICP-TAL, METALS-TAL, PCB, Pesticide-TCL, SVOCMS Group1, TPH GC, Trivalent Chromium and VOCMS Group1. This data package contains results for Hexavalent Chromium, Cyanide, Trivalent Chromium.

C. Analytical Techniques:
The analysis of Trivalent Chromium was based on method 6010D, The analysis of Hexavalent Chromium was based on method 7196A and The analysis of Cyanide was based on method 9012B.

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Blank Spike met requirements for all samples.
The Duplicate analysis met criteria for all samples.
The Matrix Spike analysis met criteria for all samples.
The Matrix Spike Duplicate analysis met criteria for all samples.
The Blank analysis did not indicate the presence of lab contamination.
The Calibration met the requirements.

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 N. N. Pandya

APPROVED
By Nimisha Pandya, QA/QC Supervisor at 11:58 am, Nov 18, 2024

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

DATA REPORTING QUALIFIERS- INORGANIC

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

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

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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 #: P4663

	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:** 11/15/2024

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Hit Summary Sheet
SW-846

SDG No.: P4663

Client: Union Paving & Construction Company

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID:	**RES-BUILDING-PAD-NO-3**							
P4663-05	RES-BUILDING-P/	SOIL	Methylene Chloride	4.90	J	2.60	7.70	ug/Kg
			Total Voc :	4.90				
			Total Concentration:	4.90				

SAMPLE DATA

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Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	10/31/24
Project:	Rt. 10 Whippany	Date Received:	10/31/24
Client Sample ID:	TENNANT-PAD-2-3-STOCKPILE	SDG No.:	P4663
Lab Sample ID:	P4663-01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	91
Sample Wt/Vol:	6.74 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY020128.D	1		11/01/24 18:41	VY110124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	1.30	U	1.30	4.10	ug/Kg
74-87-3	Chloromethane	0.95	U	0.95	4.10	ug/Kg
75-01-4	Vinyl Chloride	0.63	U	0.63	4.10	ug/Kg
74-83-9	Bromomethane	0.84	U	0.84	4.10	ug/Kg
75-00-3	Chloroethane	0.82	U	0.82	4.10	ug/Kg
75-69-4	Trichlorofluoromethane	0.74	U	0.74	4.10	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	0.87	U	0.87	4.10	ug/Kg
75-35-4	1,1-Dichloroethene	0.64	U	0.64	4.10	ug/Kg
67-64-1	Acetone	5.10	U	5.10	20.4	ug/Kg
75-15-0	Carbon Disulfide	1.00	U	1.00	4.10	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.55	U	0.55	4.10	ug/Kg
79-20-9	Methyl Acetate	1.50	U	1.50	4.10	ug/Kg
75-09-2	Methylene Chloride	2.80	U	2.80	8.20	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.68	U	0.68	4.10	ug/Kg
75-34-3	1,1-Dichloroethane	0.51	U	0.51	4.10	ug/Kg
110-82-7	Cyclohexane	0.56	U	0.56	4.10	ug/Kg
78-93-3	2-Butanone	4.60	U	4.60	20.4	ug/Kg
56-23-5	Carbon Tetrachloride	0.71	U	0.71	4.10	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.50	U	0.50	4.10	ug/Kg
74-97-5	Bromochloromethane	2.00	U	2.00	4.10	ug/Kg
67-66-3	Chloroform	0.55	U	0.55	4.10	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.64	U	0.64	4.10	ug/Kg
108-87-2	Methylcyclohexane	0.71	U	0.71	4.10	ug/Kg
71-43-2	Benzene	0.59	U	0.59	4.10	ug/Kg
107-06-2	1,2-Dichloroethane	0.50	U	0.50	4.10	ug/Kg
79-01-6	Trichloroethene	0.61	U	0.61	4.10	ug/Kg
78-87-5	1,2-Dichloropropane	0.54	U	0.54	4.10	ug/Kg
75-27-4	Bromodichloromethane	0.46	U	0.46	4.10	ug/Kg
108-10-1	4-Methyl-2-Pentanone	3.50	U	3.50	20.4	ug/Kg
108-88-3	Toluene	0.55	U	0.55	4.10	ug/Kg

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Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	10/31/24
Project:	Rt. 10 Whippany	Date Received:	10/31/24
Client Sample ID:	TENNANT-PAD-2-3-STOCKPILE	SDG No.:	P4663
Lab Sample ID:	P4663-01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	91
Sample Wt/Vol:	6.74 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY020128.D	1		11/01/24 18:41	VY110124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.49	U	0.49	4.10	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.46	U	0.46	4.10	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.68	U	0.68	4.10	ug/Kg
591-78-6	2-Hexanone	3.90	U	3.90	20.4	ug/Kg
124-48-1	Dibromochloromethane	0.53	U	0.53	4.10	ug/Kg
106-93-4	1,2-Dibromoethane	0.64	U	0.64	4.10	ug/Kg
127-18-4	Tetrachloroethene	0.73	U	0.73	4.10	ug/Kg
108-90-7	Chlorobenzene	0.60	U	0.60	4.10	ug/Kg
100-41-4	Ethyl Benzene	0.51	U	0.51	4.10	ug/Kg
179601-23-1	m/p-Xylenes	1.10	U	1.10	8.20	ug/Kg
95-47-6	o-Xylene	0.57	U	0.57	4.10	ug/Kg
100-42-5	Styrene	0.49	U	0.49	4.10	ug/Kg
75-25-2	Bromoform	0.66	U	0.66	4.10	ug/Kg
98-82-8	Isopropylbenzene	0.55	U	0.55	4.10	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	0.90	U	0.90	4.10	ug/Kg
541-73-1	1,3-Dichlorobenzene	0.60	U	0.60	4.10	ug/Kg
106-46-7	1,4-Dichlorobenzene	0.65	U	0.65	4.10	ug/Kg
95-50-1	1,2-Dichlorobenzene	0.48	U	0.48	4.10	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1.30	U	1.30	4.10	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	0.64	U	0.64	4.10	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	0.64	U	0.64	4.10	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	61.2		70 (50) - 130 (163)	122%	SPK: 50
1868-53-7	Dibromofluoromethane	53.8		70 (54) - 130 (147)	108%	SPK: 50
2037-26-5	Toluene-d8	49.2		70 (58) - 130 (134)	98%	SPK: 50
460-00-4	4-Bromofluorobenzene	47.7		70 (29) - 130 (146)	95%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	160000	7.707			
540-36-3	1,4-Difluorobenzene	339000	8.616			
3114-55-4	Chlorobenzene-d5	325000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	119000	13.347			

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Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	10/31/24
Project:	Rt. 10 Whippany	Date Received:	10/31/24
Client Sample ID:	TENNANT-PAD-2-3-STOCKPILE	SDG No.:	P4663
Lab Sample ID:	P4663-01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	91
Sample Wt/Vol:	6.74 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY020128.D	1		11/01/24 18:41	VY110124

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:	Union Paving & Construction Company	Date Collected:	10/31/24
Project:	Rt. 10 Whippany	Date Received:	10/31/24
Client Sample ID:	RES-BUILDING-PAD-NO-11	SDG No.:	P4663
Lab Sample ID:	P4663-03	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	91.9
Sample Wt/Vol:	6.25 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY020129.D	1		11/01/24 19:04	VY110124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	1.40	U	1.40	4.40	ug/Kg
74-87-3	Chloromethane	1.00	U	1.00	4.40	ug/Kg
75-01-4	Vinyl Chloride	0.67	U	0.67	4.40	ug/Kg
74-83-9	Bromomethane	0.90	U	0.90	4.40	ug/Kg
75-00-3	Chloroethane	0.88	U	0.88	4.40	ug/Kg
75-69-4	Trichlorofluoromethane	0.79	U	0.79	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	0.68	U	0.68	4.40	ug/Kg
67-64-1	Acetone	5.40	U	5.40	21.8	ug/Kg
75-15-0	Carbon Disulfide	1.10	U	1.10	4.40	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.58	U	0.58	4.40	ug/Kg
79-20-9	Methyl Acetate	1.60	U	1.60	4.40	ug/Kg
75-09-2	Methylene Chloride	3.00	U	3.00	8.70	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.73	U	0.73	4.40	ug/Kg
75-34-3	1,1-Dichloroethane	0.55	U	0.55	4.40	ug/Kg
110-82-7	Cyclohexane	0.60	U	0.60	4.40	ug/Kg
78-93-3	2-Butanone	4.90	U	4.90	21.8	ug/Kg
56-23-5	Carbon Tetrachloride	0.76	U	0.76	4.40	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.53	U	0.53	4.40	ug/Kg
74-97-5	Bromochloromethane	2.10	U	2.10	4.40	ug/Kg
67-66-3	Chloroform	0.58	U	0.58	4.40	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.68	U	0.68	4.40	ug/Kg
108-87-2	Methylcyclohexane	0.76	U	0.76	4.40	ug/Kg
71-43-2	Benzene	0.63	U	0.63	4.40	ug/Kg
107-06-2	1,2-Dichloroethane	0.53	U	0.53	4.40	ug/Kg
79-01-6	Trichloroethene	0.65	U	0.65	4.40	ug/Kg
78-87-5	1,2-Dichloropropane	0.57	U	0.57	4.40	ug/Kg
75-27-4	Bromodichloromethane	0.49	U	0.49	4.40	ug/Kg
108-10-1	4-Methyl-2-Pentanone	3.80	U	3.80	21.8	ug/Kg
108-88-3	Toluene	0.58	U	0.58	4.40	ug/Kg

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Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	10/31/24
Project:	Rt. 10 Whippany	Date Received:	10/31/24
Client Sample ID:	RES-BUILDING-PAD-NO-11	SDG No.:	P4663
Lab Sample ID:	P4663-03	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	91.9
Sample Wt/Vol:	6.25 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY020129.D	1		11/01/24 19:04	VY110124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.52	U	0.52	4.40	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.50	4.40	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.73	U	0.73	4.40	ug/Kg
591-78-6	2-Hexanone	4.20	U	4.20	21.8	ug/Kg
124-48-1	Dibromochloromethane	0.57	U	0.57	4.40	ug/Kg
106-93-4	1,2-Dibromoethane	0.69	U	0.69	4.40	ug/Kg
127-18-4	Tetrachloroethene	0.77	U	0.77	4.40	ug/Kg
108-90-7	Chlorobenzene	0.64	U	0.64	4.40	ug/Kg
100-41-4	Ethyl Benzene	0.54	U	0.54	4.40	ug/Kg
179601-23-1	m/p-Xylenes	1.20	U	1.20	8.70	ug/Kg
95-47-6	o-Xylene	0.61	U	0.61	4.40	ug/Kg
100-42-5	Styrene	0.52	U	0.52	4.40	ug/Kg
75-25-2	Bromoform	0.71	U	0.71	4.40	ug/Kg
98-82-8	Isopropylbenzene	0.58	U	0.58	4.40	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	0.96	U	0.96	4.40	ug/Kg
541-73-1	1,3-Dichlorobenzene	0.64	U	0.64	4.40	ug/Kg
106-46-7	1,4-Dichlorobenzene	0.70	U	0.70	4.40	ug/Kg
95-50-1	1,2-Dichlorobenzene	0.51	U	0.51	4.40	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1.40	U	1.40	4.40	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	0.69	U	0.69	4.40	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	0.68	U	0.68	4.40	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	56.9		70 (50) - 130 (163)	114%	SPK: 50
1868-53-7	Dibromofluoromethane	51.8		70 (54) - 130 (147)	104%	SPK: 50
2037-26-5	Toluene-d8	48.8		70 (58) - 130 (134)	98%	SPK: 50
460-00-4	4-Bromofluorobenzene	44.0		70 (29) - 130 (146)	88%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	164000	7.713			
540-36-3	1,4-Difluorobenzene	345000	8.609			
3114-55-4	Chlorobenzene-d5	310000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	105000	13.346			

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Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	10/31/24
Project:	Rt. 10 Whippany	Date Received:	10/31/24
Client Sample ID:	RES-BUILDING-PAD-NO-11	SDG No.:	P4663
Lab Sample ID:	P4663-03	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	91.9
Sample Wt/Vol:	6.25 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY020129.D	1		11/01/24 19:04	VY110124

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

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

Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	10/31/24
Project:	Rt. 10 Whippany	Date Received:	10/31/24
Client Sample ID:	RES-BUILDING-PAD-NO-3	SDG No.:	P4663
Lab Sample ID:	P4663-05	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	90.5
Sample Wt/Vol:	7.16 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY020130.D	1		11/01/24 19:27	VY110124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	1.30	U	1.30	3.90	ug/Kg
74-87-3	Chloromethane	0.90	U	0.90	3.90	ug/Kg
75-01-4	Vinyl Chloride	0.59	U	0.59	3.90	ug/Kg
74-83-9	Bromomethane	0.79	U	0.79	3.90	ug/Kg
75-00-3	Chloroethane	0.78	U	0.78	3.90	ug/Kg
75-69-4	Trichlorofluoromethane	0.70	U	0.70	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	0.60	U	0.60	3.90	ug/Kg
67-64-1	Acetone	4.80	U	4.80	19.3	ug/Kg
75-15-0	Carbon Disulfide	0.99	U	0.99	3.90	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.52	U	0.52	3.90	ug/Kg
79-20-9	Methyl Acetate	1.40	U	1.40	3.90	ug/Kg
75-09-2	Methylene Chloride	4.90	J	2.60	7.70	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.65	U	0.65	3.90	ug/Kg
75-34-3	1,1-Dichloroethane	0.49	U	0.49	3.90	ug/Kg
110-82-7	Cyclohexane	0.53	U	0.53	3.90	ug/Kg
78-93-3	2-Butanone	4.40	U	4.40	19.3	ug/Kg
56-23-5	Carbon Tetrachloride	0.67	U	0.67	3.90	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.47	U	0.47	3.90	ug/Kg
74-97-5	Bromochloromethane	1.90	U	1.90	3.90	ug/Kg
67-66-3	Chloroform	0.52	U	0.52	3.90	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.60	U	0.60	3.90	ug/Kg
108-87-2	Methylcyclohexane	0.67	U	0.67	3.90	ug/Kg
71-43-2	Benzene	0.56	U	0.56	3.90	ug/Kg
107-06-2	1,2-Dichloroethane	0.47	U	0.47	3.90	ug/Kg
79-01-6	Trichloroethene	0.58	U	0.58	3.90	ug/Kg
78-87-5	1,2-Dichloropropane	0.51	U	0.51	3.90	ug/Kg
75-27-4	Bromodichloromethane	0.43	U	0.43	3.90	ug/Kg
108-10-1	4-Methyl-2-Pentanone	3.40	U	3.40	19.3	ug/Kg
108-88-3	Toluene	0.52	U	0.52	3.90	ug/Kg

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Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	10/31/24
Project:	Rt. 10 Whippany	Date Received:	10/31/24
Client Sample ID:	RES-BUILDING-PAD-NO-3	SDG No.:	P4663
Lab Sample ID:	P4663-05	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	90.5
Sample Wt/Vol:	7.16 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY020130.D	1		11/01/24 19:27	VY110124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.46	U	0.46	3.90	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.44	U	0.44	3.90	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.65	U	0.65	3.90	ug/Kg
591-78-6	2-Hexanone	3.70	U	3.70	19.3	ug/Kg
124-48-1	Dibromochloromethane	0.50	U	0.50	3.90	ug/Kg
106-93-4	1,2-Dibromoethane	0.61	U	0.61	3.90	ug/Kg
127-18-4	Tetrachloroethene	0.69	U	0.69	3.90	ug/Kg
108-90-7	Chlorobenzene	0.57	U	0.57	3.90	ug/Kg
100-41-4	Ethyl Benzene	0.48	U	0.48	3.90	ug/Kg
179601-23-1	m/p-Xylenes	1.00	U	1.00	7.70	ug/Kg
95-47-6	o-Xylene	0.54	U	0.54	3.90	ug/Kg
100-42-5	Styrene	0.46	U	0.46	3.90	ug/Kg
75-25-2	Bromoform	0.63	U	0.63	3.90	ug/Kg
98-82-8	Isopropylbenzene	0.52	U	0.52	3.90	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	0.85	U	0.85	3.90	ug/Kg
541-73-1	1,3-Dichlorobenzene	0.57	U	0.57	3.90	ug/Kg
106-46-7	1,4-Dichlorobenzene	0.62	U	0.62	3.90	ug/Kg
95-50-1	1,2-Dichlorobenzene	0.46	U	0.46	3.90	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1.20	U	1.20	3.90	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	0.61	U	0.61	3.90	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	0.60	U	0.60	3.90	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	56.9		70 (50) - 130 (163)	114%	SPK: 50
1868-53-7	Dibromofluoromethane	51.4		70 (54) - 130 (147)	103%	SPK: 50
2037-26-5	Toluene-d8	49.7		70 (58) - 130 (134)	99%	SPK: 50
460-00-4	4-Bromofluorobenzene	44.3		70 (29) - 130 (146)	89%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	160000	7.707			
540-36-3	1,4-Difluorobenzene	335000	8.616			
3114-55-4	Chlorobenzene-d5	302000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	104000	13.346			

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Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	10/31/24
Project:	Rt. 10 Whippany	Date Received:	10/31/24
Client Sample ID:	RES-BUILDING-PAD-NO-3	SDG No.:	P4663
Lab Sample ID:	P4663-05	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	90.5
Sample Wt/Vol:	7.16 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY020130.D	1		11/01/24 19:27	VY110124

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:	Union Paving & Construction Company	Date Collected:	10/31/24
Project:	Rt. 10 Whippany	Date Received:	10/31/24
Client Sample ID:	RES-BUILDING-PAD-NO-2	SDG No.:	P4663
Lab Sample ID:	P4663-07	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	85.7
Sample Wt/Vol:	6.06 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY020124.D	1		11/01/24 17:07	VY110124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	1.60	U	1.60	4.80	ug/Kg
74-87-3	Chloromethane	1.10	U	1.10	4.80	ug/Kg
75-01-4	Vinyl Chloride	0.74	U	0.74	4.80	ug/Kg
74-83-9	Bromomethane	0.99	U	0.99	4.80	ug/Kg
75-00-3	Chloroethane	0.97	U	0.97	4.80	ug/Kg
75-69-4	Trichlorofluoromethane	0.88	U	0.88	4.80	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	1.00	U	1.00	4.80	ug/Kg
75-35-4	1,1-Dichloroethene	0.75	U	0.75	4.80	ug/Kg
67-64-1	Acetone	6.00	U	6.00	24.1	ug/Kg
75-15-0	Carbon Disulfide	1.20	U	1.20	4.80	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.65	U	0.65	4.80	ug/Kg
79-20-9	Methyl Acetate	1.70	U	1.70	4.80	ug/Kg
75-09-2	Methylene Chloride	3.30	U	3.30	9.60	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.81	U	0.81	4.80	ug/Kg
75-34-3	1,1-Dichloroethane	0.61	U	0.61	4.80	ug/Kg
110-82-7	Cyclohexane	0.66	U	0.66	4.80	ug/Kg
78-93-3	2-Butanone	5.50	U	5.50	24.1	ug/Kg
56-23-5	Carbon Tetrachloride	0.84	U	0.84	4.80	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.59	U	0.59	4.80	ug/Kg
74-97-5	Bromochloromethane	2.30	U	2.30	4.80	ug/Kg
67-66-3	Chloroform	0.65	U	0.65	4.80	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.75	U	0.75	4.80	ug/Kg
108-87-2	Methylcyclohexane	0.84	U	0.84	4.80	ug/Kg
71-43-2	Benzene	0.69	U	0.69	4.80	ug/Kg
107-06-2	1,2-Dichloroethane	0.59	U	0.59	4.80	ug/Kg
79-01-6	Trichloroethene	0.72	U	0.72	4.80	ug/Kg
78-87-5	1,2-Dichloropropane	0.64	U	0.64	4.80	ug/Kg
75-27-4	Bromodichloromethane	0.54	U	0.54	4.80	ug/Kg
108-10-1	4-Methyl-2-Pentanone	4.20	U	4.20	24.1	ug/Kg
108-88-3	Toluene	0.65	U	0.65	4.80	ug/Kg

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Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	10/31/24
Project:	Rt. 10 Whippany	Date Received:	10/31/24
Client Sample ID:	RES-BUILDING-PAD-NO-2	SDG No.:	P4663
Lab Sample ID:	P4663-07	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	85.7
Sample Wt/Vol:	6.06 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY020124.D	1		11/01/24 17:07	VY110124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.58	U	0.58	4.80	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.55	U	0.55	4.80	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.81	U	0.81	4.80	ug/Kg
591-78-6	2-Hexanone	4.60	U	4.60	24.1	ug/Kg
124-48-1	Dibromochloromethane	0.63	U	0.63	4.80	ug/Kg
106-93-4	1,2-Dibromoethane	0.76	U	0.76	4.80	ug/Kg
127-18-4	Tetrachloroethene	0.86	U	0.86	4.80	ug/Kg
108-90-7	Chlorobenzene	0.71	U	0.71	4.80	ug/Kg
100-41-4	Ethyl Benzene	0.60	U	0.60	4.80	ug/Kg
179601-23-1	m/p-Xylenes	1.30	U	1.30	9.60	ug/Kg
95-47-6	o-Xylene	0.67	U	0.67	4.80	ug/Kg
100-42-5	Styrene	0.58	U	0.58	4.80	ug/Kg
75-25-2	Bromoform	0.78	U	0.78	4.80	ug/Kg
98-82-8	Isopropylbenzene	0.65	U	0.65	4.80	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.10	U	1.10	4.80	ug/Kg
541-73-1	1,3-Dichlorobenzene	0.71	U	0.71	4.80	ug/Kg
106-46-7	1,4-Dichlorobenzene	0.77	U	0.77	4.80	ug/Kg
95-50-1	1,2-Dichlorobenzene	0.57	U	0.57	4.80	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1.50	U	1.50	4.80	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	0.76	U	0.76	4.80	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	0.75	U	0.75	4.80	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	60.0		70 (50) - 130 (163)	120%	SPK: 50
1868-53-7	Dibromofluoromethane	53.1		70 (54) - 130 (147)	106%	SPK: 50
2037-26-5	Toluene-d8	49.9		70 (58) - 130 (134)	100%	SPK: 50
460-00-4	4-Bromofluorobenzene	48.7		70 (29) - 130 (146)	97%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	169000	7.707			
540-36-3	1,4-Difluorobenzene	354000	8.616			
3114-55-4	Chlorobenzene-d5	335000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	125000	13.346			

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Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	10/31/24
Project:	Rt. 10 Whippany	Date Received:	10/31/24
Client Sample ID:	RES-BUILDING-PAD-NO-2	SDG No.:	P4663
Lab Sample ID:	P4663-07	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	85.7
Sample Wt/Vol:	6.06 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY020124.D	1		11/01/24 17:07	VY110124

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

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

SDG No.: P4663

Client: Union Paving & Construction Company

Analytical Method: SW8260D

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits Low	Limits High
P4663-01	TENNANT-PAD-2-3-STOCKPILE	1,2-Dichloroethane-d4	50	61.2	122	70 (50)	130 (163)
		Dibromofluoromethane	50	53.8	108	70 (54)	130 (147)
		Toluene-d8	50	49.2	98	70 (58)	130 (134)
		4-Bromofluorobenzene	50	47.7	95	70 (29)	130 (146)
P4663-03	RES-BUILDING-PAD-NO-11	1,2-Dichloroethane-d4	50	56.9	114	70 (50)	130 (163)
		Dibromofluoromethane	50	51.8	104	70 (54)	130 (147)
		Toluene-d8	50	48.8	98	70 (58)	130 (134)
		4-Bromofluorobenzene	50	44.0	88	70 (29)	130 (146)
P4663-05	RES-BUILDING-PAD-NO-3	1,2-Dichloroethane-d4	50	56.9	114	70 (50)	130 (163)
		Dibromofluoromethane	50	51.4	103	70 (54)	130 (147)
		Toluene-d8	50	49.7	99	70 (58)	130 (134)
		4-Bromofluorobenzene	50	44.3	89	70 (29)	130 (146)
P4663-07	RES-BUILDING-PAD-NO-2	1,2-Dichloroethane-d4	50	60.0	120	70 (50)	130 (163)
		Dibromofluoromethane	50	53.1	106	70 (54)	130 (147)
		Toluene-d8	50	49.9	100	70 (58)	130 (134)
		4-Bromofluorobenzene	50	48.7	97	70 (29)	130 (146)
VY1101SBL01	VY1101SBL01	1,2-Dichloroethane-d4	50	57.4	115	70 (50)	130 (163)
		Dibromofluoromethane	50	51.6	103	70 (54)	130 (147)
		Toluene-d8	50	48.9	98	70 (58)	130 (134)
		4-Bromofluorobenzene	50	44.3	89	70 (29)	130 (146)
VY1101SBS01	VY1101SBS01	1,2-Dichloroethane-d4	50	59.4	119	70 (50)	130 (163)
		Dibromofluoromethane	50	56.7	113	70 (54)	130 (147)
		Toluene-d8	50	57.8	116	70 (58)	130 (134)
		4-Bromofluorobenzene	50	56.0	112	70 (29)	130 (146)
VY1101SBSD01	VY1101SBSD01	1,2-Dichloroethane-d4	50	52.2	104	70 (50)	130 (163)
		Dibromofluoromethane	50	51.6	103	70 (54)	130 (147)
		Toluene-d8	50	51.5	103	70 (58)	130 (134)
		4-Bromofluorobenzene	50	51.2	102	70 (29)	130 (146)

( ) = LABORATORY INHOUSE LIMIT

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4663

Client: Union Paving & Construction Company

Analytical Method: SW8260D **Datafile :** VY020111.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VY1101SBS01	Dichlorodifluoromethane	20	20.9	ug/Kg	104			40 (64)	160 (136)	
	Chloromethane	20	22.1	ug/Kg	111			40 (70)	160 (130)	
	Vinyl chloride	20	21.4	ug/Kg	107			70 (72)	130 (129)	
	Bromomethane	20	21.3	ug/Kg	106			40 (58)	160 (141)	
	Chloroethane	20	22.2	ug/Kg	111			40 (69)	160 (130)	
	Trichlorofluoromethane	20	22.2	ug/Kg	111			40 (69)	160 (134)	
	1,1,2-Trichlorotrifluoroethane	20	21.0	ug/Kg	105			70 (81)	130 (123)	
	1,1-Dichloroethene	20	21.3	ug/Kg	106			70 (79)	130 (121)	
	Acetone	100	100	ug/Kg	100			40 (60)	160 (131)	
	Carbon disulfide	20	21.0	ug/Kg	105			40 (45)	160 (154)	
	Methyl tert-butyl Ether	20	22.1	ug/Kg	111			70 (77)	130 (129)	
	Methyl Acetate	20	22.3	ug/Kg	112			70 (69)	130 (149)	
	Methylene Chloride	20	20.8	ug/Kg	104			70 (56)	130 (174)	
	trans-1,2-Dichloroethene	20	21.2	ug/Kg	106			70 (80)	130 (123)	
	1,1-Dichloroethane	20	22.3	ug/Kg	112			70 (82)	130 (123)	
	Cyclohexane	20	20.5	ug/Kg	103			70 (76)	130 (122)	
	2-Butanone	100	110	ug/Kg	110			40 (69)	160 (131)	
	Carbon Tetrachloride	20	20.3	ug/Kg	102			70 (76)	130 (129)	
	cis-1,2-Dichloroethene	20	21.9	ug/Kg	110			70 (82)	130 (123)	
	Bromochloromethane	20	21.5	ug/Kg	108			70 (80)	130 (127)	
	Chloroform	20	21.9	ug/Kg	110			70 (82)	130 (125)	
	1,1,1-Trichloroethane	20	21.5	ug/Kg	108			70 (80)	130 (126)	
	Methylcyclohexane	20	19.8	ug/Kg	99			70 (77)	130 (123)	
	Benzene	20	21.0	ug/Kg	105			70 (84)	130 (121)	
	1,2-Dichloroethane	20	21.2	ug/Kg	106			70 (81)	130 (126)	
	Trichloroethene	20	20.7	ug/Kg	104			70 (83)	130 (122)	
	1,2-Dichloropropane	20	21.1	ug/Kg	106			70 (83)	130 (122)	
	Bromodichloromethane	20	21.7	ug/Kg	109			70 (82)	130 (123)	
	4-Methyl-2-Pentanone	100	110	ug/Kg	110			40 (70)	160 (135)	
	Toluene	20	21.1	ug/Kg	106			70 (83)	130 (122)	
	t-1,3-Dichloropropene	20	20.6	ug/Kg	103			70 (78)	130 (124)	
	cis-1,3-Dichloropropene	20	21.3	ug/Kg	106			70 (81)	130 (122)	
	1,1,2-Trichloroethane	20	20.9	ug/Kg	104			70 (82)	130 (125)	
	2-Hexanone	100	110	ug/Kg	110			40 (66)	160 (138)	
	Dibromochloromethane	20	21.1	ug/Kg	106			70 (79)	130 (125)	
	1,2-Dibromoethane	20	20.7	ug/Kg	104			70 (80)	130 (125)	
	Tetrachloroethene	20	20.5	ug/Kg	103			70 (83)	130 (125)	
	Chlorobenzene	20	20.9	ug/Kg	104			70 (84)	130 (122)	
	Ethyl Benzene	20	20.4	ug/Kg	102			70 (82)	130 (124)	
	m/p-Xylenes	40	41.6	ug/Kg	104			70 (83)	130 (124)	
	o-Xylene	20	20.1	ug/Kg	101			70 (83)	130 (123)	
	Styrene	20	20.8	ug/Kg	104			70 (82)	130 (124)	
	Bromoform	20	20.5	ug/Kg	103			70 (75)	130 (127)	
	Isopropylbenzene	20	20.2	ug/Kg	101			70 (82)	130 (124)	
	1,1,2,2-Tetrachloroethane	20	20.2	ug/Kg	101			70 (77)	130 (127)	
	1,3-Dichlorobenzene	20	20.6	ug/Kg	103			70 (83)	130 (122)	
	1,4-Dichlorobenzene	20	20.7	ug/Kg	104			70 (84)	130 (121)	
	1,2-Dichlorobenzene	20	20.8	ug/Kg	104			70 (83)	130 (124)	

( ) = LABORATORY INHOUSE LIMIT

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

SW-846

SDG No.: P4663

Client: Union Paving & Construction Company

Analytical Method: SW8260D **Datafile :** VY020111.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VY1101SBS01	1,2-Dibromo-3-Chloropropane	20	18.9	ug/Kg	95			40 (66)	160 (134)	
	1,2,4-Trichlorobenzene	20	19.5	ug/Kg	98			70 (78)	130 (127)	
	1,2,3-Trichlorobenzene	20	18.8	ug/Kg	94			70 (70)	130 (137)	

( ) = LABORATORY INHOUSE LIMIT

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4663

Client: Union Paving & Construction Company

Analytical Method: SW8260D **Datafile :** VY020112.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	Limits RPD
VY1101SBSD01	Dichlorodifluoromethane	20	20.5	ug/Kg	103	1		40 (64)	160 (136)	30 (20)
	Chloromethane	20	22.1	ug/Kg	111	0		40 (70)	160 (130)	30 (20)
	Vinyl chloride	20	21.3	ug/Kg	106	1		70 (72)	130 (129)	30 (20)
	Bromomethane	20	20.5	ug/Kg	103	3		40 (58)	160 (141)	30 (20)
	Chloroethane	20	21.2	ug/Kg	106	5		40 (69)	160 (130)	30 (20)
	Trichlorofluoromethane	20	21.6	ug/Kg	108	3		40 (69)	160 (134)	30 (20)
	1,1,2-Trichlorotrifluoroethane	20	21.5	ug/Kg	108	3		70 (81)	130 (123)	30 (20)
	1,1-Dichloroethene	20	20.8	ug/Kg	104	2		70 (79)	130 (121)	30 (20)
	Acetone	100	110	ug/Kg	110	10		40 (60)	160 (131)	30 (20)
	Carbon disulfide	20	20.8	ug/Kg	104	1		40 (45)	160 (154)	30 (20)
	Methyl tert-butyl Ether	20	21.0	ug/Kg	105	6		70 (77)	130 (129)	30 (20)
	Methyl Acetate	20	21.9	ug/Kg	110	2		70 (69)	130 (149)	30 (20)
	Methylene Chloride	20	19.7	ug/Kg	99	5		70 (56)	130 (174)	30 (20)
	trans-1,2-Dichloroethene	20	20.9	ug/Kg	104	2		70 (80)	130 (123)	30 (20)
	1,1-Dichloroethane	20	21.1	ug/Kg	106	6		70 (82)	130 (123)	30 (20)
	Cyclohexane	20	20.4	ug/Kg	102	1		70 (76)	130 (122)	30 (20)
	2-Butanone	100	110	ug/Kg	110	0		40 (69)	160 (131)	30 (20)
	Carbon Tetrachloride	20	20.7	ug/Kg	104	2		70 (76)	130 (129)	30 (20)
	cis-1,2-Dichloroethene	20	20.7	ug/Kg	104	6		70 (82)	130 (123)	30 (20)
	Bromochloromethane	20	20.0	ug/Kg	100	8		70 (80)	130 (127)	30 (20)
	Chloroform	20	21.6	ug/Kg	108	2		70 (82)	130 (125)	30 (20)
	1,1,1-Trichloroethane	20	20.7	ug/Kg	104	4		70 (80)	130 (126)	30 (20)
	Methylcyclohexane	20	19.7	ug/Kg	99	0		70 (77)	130 (123)	30 (20)
	Benzene	20	21.0	ug/Kg	105	0		70 (84)	130 (121)	30 (20)
	1,2-Dichloroethane	20	21.0	ug/Kg	105	1		70 (81)	130 (126)	30 (20)
	Trichloroethene	20	20.3	ug/Kg	102	2		70 (83)	130 (122)	30 (20)
	1,2-Dichloropropane	20	20.9	ug/Kg	104	2		70 (83)	130 (122)	30 (20)
	Bromodichloromethane	20	21.1	ug/Kg	106	3		70 (82)	130 (123)	30 (20)
	4-Methyl-2-Pentanone	100	110	ug/Kg	110	0		40 (70)	160 (135)	30 (20)
	Toluene	20	20.9	ug/Kg	104	2		70 (83)	130 (122)	30 (20)
	t-1,3-Dichloropropene	20	20.0	ug/Kg	100	3		70 (78)	130 (124)	30 (20)
	cis-1,3-Dichloropropene	20	20.5	ug/Kg	103	3		70 (81)	130 (122)	30 (20)
	1,1,2-Trichloroethane	20	21.6	ug/Kg	108	4		70 (82)	130 (125)	30 (20)
	2-Hexanone	100	110	ug/Kg	110	0		40 (66)	160 (138)	30 (20)
	Dibromochloromethane	20	20.9	ug/Kg	104	2		70 (79)	130 (125)	30 (20)
	1,2-Dibromoethane	20	20.2	ug/Kg	101	3		70 (80)	130 (125)	30 (20)
	Tetrachloroethene	20	20.5	ug/Kg	103	0		70 (83)	130 (125)	30 (20)
	Chlorobenzene	20	20.6	ug/Kg	103	1		70 (84)	130 (122)	30 (20)
	Ethyl Benzene	20	20.8	ug/Kg	104	2		70 (82)	130 (124)	30 (20)
	m/p-Xylenes	40	41.4	ug/Kg	104	0		70 (83)	130 (124)	30 (20)
	o-Xylene	20	20.6	ug/Kg	103	2		70 (83)	130 (123)	30 (20)
	Styrene	20	21.2	ug/Kg	106	2		70 (82)	130 (124)	30 (20)
	Bromoform	20	20.8	ug/Kg	104	1		70 (75)	130 (127)	30 (20)
	Isopropylbenzene	20	20.9	ug/Kg	104	3		70 (82)	130 (124)	30 (20)
	1,1,2,2-Tetrachloroethane	20	20.5	ug/Kg	103	2		70 (77)	130 (127)	30 (20)
	1,3-Dichlorobenzene	20	20.6	ug/Kg	103	0		70 (83)	130 (122)	30 (20)
	1,4-Dichlorobenzene	20	21.0	ug/Kg	105	1		70 (84)	130 (121)	30 (20)
	1,2-Dichlorobenzene	20	21.3	ug/Kg	106	2		70 (83)	130 (124)	30 (20)

( ) = LABORATORY INHOUSE LIMIT

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4663

Client: Union Paving & Construction Company

Analytical Method: SW8260D **Datafile :** VY020112.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	Limits RPD
VY1101SBSD01	1,2-Dibromo-3-Chloropropane	20	20.9	ug/Kg	104	9		40 (66)	160 (134)	30 (20)
	1,2,4-Trichlorobenzene	20	20.0	ug/Kg	100	2		70 (78)	130 (127)	30 (20)
	1,2,3-Trichlorobenzene	20	20.2	ug/Kg	101	7		70 (70)	130 (137)	30 (20)

( ) = LABORATORY INHOUSE LIMIT

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VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VY1101SBL01

Lab Name: CHEMTECH Contract: UNIO02

Lab Code: CHEM Case No.: P4663 SAS No.: P4663 SDG NO.: P4663

Lab File ID: VY020110.D Lab Sample ID: VY1101SBL01

Date Analyzed: 11/01/2024 Time Analyzed: 09:42

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
VY1101SBS01	VY1101SBS01	VY020111.D	11/01/2024
VY1101SBSD01	VY1101SBSD01	VY020112.D	11/01/2024
RES-BUILDING-PAD-NO-2	P4663-07	VY020124.D	11/01/2024
TENNANT-PAD-2-3-STOCKPILE	P4663-01	VY020128.D	11/01/2024
RES-BUILDING-PAD-NO-11	P4663-03	VY020129.D	11/01/2024
RES-BUILDING-PAD-NO-3	P4663-05	VY020130.D	11/01/2024

COMMENTS:

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: UNIO02

Lab Code: CHEM Case No.: P4663 SAS No.: P4663 SDG NO.: P4663

Lab File ID: VY020074.D BFB Injection Date: 10/30/2024

Instrument ID: MSVOA_Y BFB Injection Time: 12:07

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	57.2
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.6
173	Less than 2.0% of mass 174	1.1 (1.4) 1
174	50.0 - 100.0% of mass 95	74.5
175	5.0 - 9.0% of mass 174	5.8 (7.8) 1
176	95.0 - 101.0% of mass 174	70.8 (95.1) 1
177	5.0 - 9.0% of mass 176	4.9 (6.9) 2

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

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDICC005	VSTDICC005	VY020075.D	10/30/2024	12:39
VSTDICC010	VSTDICC010	VY020076.D	10/30/2024	13:02
VSTDICC020	VSTDICC020	VY020077.D	10/30/2024	13:24
VSTDICCC050	VSTDICCC050	VY020078.D	10/30/2024	14:06
VSTDICC100	VSTDICC100	VY020079.D	10/30/2024	14:29
VSTDICC150	VSTDICC150	VY020080.D	10/30/2024	14:52

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: UNIO02

Lab Code: CHEM Case No.: P4663 SAS No.: P4663 SDG NO.: P4663

Lab File ID: VY020108.D BFB Injection Date: 11/01/2024

Instrument ID: MSVOA_Y BFB Injection Time: 08:26

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	24.7
75	30.0 - 60.0% of mass 95	59
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	7.1
173	Less than 2.0% of mass 174	0.9 (1.3) 1
174	50.0 - 100.0% of mass 95	72.7
175	5.0 - 9.0% of mass 174	5.6 (7.8) 1
176	95.0 - 101.0% of mass 174	69.1 (95) 1
177	5.0 - 9.0% of mass 176	4.6 (6.7) 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	VY020109.D	11/01/2024	09:02
VY1101SBL01	VY1101SBL01	VY020110.D	11/01/2024	09:42
VY1101SBS01	VY1101SBS01	VY020111.D	11/01/2024	10:33
VY1101SBSD01	VY1101SBSD01	VY020112.D	11/01/2024	11:12
RES-BUILDING-PAD-NO-2	P4663-07	VY020124.D	11/01/2024	17:07
TENNANT-PAD-2-3-STOCKPILE	P4663-01	VY020128.D	11/01/2024	18:41
RES-BUILDING-PAD-NO-11	P4663-03	VY020129.D	11/01/2024	19:04
RES-BUILDING-PAD-NO-3	P4663-05	VY020130.D	11/01/2024	19:27

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: UNIO02

Lab Code: CHEM Case No.: P4663 SAS No.: P4663 SDG NO.: P4663

Lab File ID: VY020109.D Date Analyzed: 11/01/2024

Instrument ID: MSVOA_Y Time Analyzed: 09:02

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	249316	7.71	428486	8.62	369253	11.42
UPPER LIMIT	498632	8.213	856972	9.115	738506	11.92
LOWER LIMIT	124658	7.213	214243	8.115	184627	10.92
EPA SAMPLE NO.						
TENNANT-PAD-2-3-STOCKPILE	159567	7.71	338625	8.62	324781	11.41
RES-BUILDING-PAD-NO-11	164371	7.71	344945	8.61	309515	11.41
RES-BUILDING-PAD-NO-3	159663	7.71	335103	8.62	302177	11.41
RES-BUILDING-PAD-NO-2	168827	7.71	353605	8.62	335031	11.41
VY1101SBL01	193272	7.71	403931	8.62	365454	11.41
VY1101SBS01	224649	7.71	413315	8.62	362345	11.41
VY1101SBSD01	251864	7.71	454799	8.62	392733	11.41

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

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

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

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: UNIO02

Lab Code: CHEM Case No.: P4663 SAS No.: P4663 SDG NO.: P4663

Lab File ID: VY020109.D Date Analyzed: 11/01/2024

Instrument ID: MSVOA_Y Time Analyzed: 09:02

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

	IS4 AREA #	RT #				
12 HOUR STD	173771	13.346				
UPPER LIMIT	347542	13.846				
LOWER LIMIT	86885.5	12.846				
EPA SAMPLE NO.						
TENNANT-PAD-2-3-STOCKPILE	118518	13.35				
RES-BUILDING-PAD-NO-11	105144	13.35				
RES-BUILDING-PAD-NO-3	103950	13.35				
RES-BUILDING-PAD-NO-2	125105	13.35				
VY1101SBL01	125829	13.35				
VY1101SBS01	169895	13.35				
VY1101SBSD01	182188	13.35				

IS4 = 1,4-Dichlorobenzene-d4

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

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

QC SAMPLE DATA

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Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	
Project:	Rt. 10 Whippany	Date Received:	
Client Sample ID:	VY1101SBL01	SDG No.:	P4663
Lab Sample ID:	VY1101SBL01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY020110.D	1		11/01/24 09:42	VY110124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	1.70	U	1.70	5.00	ug/Kg
74-87-3	Chloromethane	1.20	U	1.20	5.00	ug/Kg
75-01-4	Vinyl Chloride	0.77	U	0.77	5.00	ug/Kg
74-83-9	Bromomethane	1.00	U	1.00	5.00	ug/Kg
75-00-3	Chloroethane	1.00	U	1.00	5.00	ug/Kg
75-69-4	Trichlorofluoromethane	0.91	U	0.91	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	0.78	U	0.78	5.00	ug/Kg
67-64-1	Acetone	6.20	U	6.20	25.0	ug/Kg
75-15-0	Carbon Disulfide	1.30	U	1.30	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.67	U	0.67	5.00	ug/Kg
79-20-9	Methyl Acetate	1.80	U	1.80	5.00	ug/Kg
75-09-2	Methylene Chloride	3.40	U	3.40	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.84	U	0.84	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	0.63	U	0.63	5.00	ug/Kg
110-82-7	Cyclohexane	0.69	U	0.69	5.00	ug/Kg
78-93-3	2-Butanone	5.70	U	5.70	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	0.87	U	0.87	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.61	U	0.61	5.00	ug/Kg
74-97-5	Bromochloromethane	2.40	U	2.40	5.00	ug/Kg
67-66-3	Chloroform	0.67	U	0.67	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.78	U	0.78	5.00	ug/Kg
108-87-2	Methylcyclohexane	0.87	U	0.87	5.00	ug/Kg
71-43-2	Benzene	0.72	U	0.72	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	0.61	U	0.61	5.00	ug/Kg
79-01-6	Trichloroethene	0.75	U	0.75	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	0.66	U	0.66	5.00	ug/Kg
75-27-4	Bromodichloromethane	0.56	U	0.56	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	4.40	U	4.40	25.0	ug/Kg
108-88-3	Toluene	0.67	U	0.67	5.00	ug/Kg

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Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	
Project:	Rt. 10 Whippany	Date Received:	
Client Sample ID:	VY1101SBL01	SDG No.:	P4663
Lab Sample ID:	VY1101SBL01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY020110.D	1		11/01/24 09:42	VY110124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.60	U	0.60	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.57	U	0.57	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.84	U	0.84	5.00	ug/Kg
591-78-6	2-Hexanone	4.80	U	4.80	25.0	ug/Kg
124-48-1	Dibromochloromethane	0.65	U	0.65	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	0.79	U	0.79	5.00	ug/Kg
127-18-4	Tetrachloroethene	0.89	U	0.89	5.00	ug/Kg
108-90-7	Chlorobenzene	0.74	U	0.74	5.00	ug/Kg
100-41-4	Ethyl Benzene	0.62	U	0.62	5.00	ug/Kg
179601-23-1	m/p-Xylenes	1.40	U	1.40	10.0	ug/Kg
95-47-6	o-Xylene	0.70	U	0.70	5.00	ug/Kg
100-42-5	Styrene	0.60	U	0.60	5.00	ug/Kg
75-25-2	Bromoform	0.81	U	0.81	5.00	ug/Kg
98-82-8	Isopropylbenzene	0.67	U	0.67	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.10	U	1.10	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	0.74	U	0.74	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	0.80	U	0.80	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	0.59	U	0.59	5.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1.60	U	1.60	5.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	0.79	U	0.79	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	0.78	U	0.78	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	57.4		70 (50) - 130 (163)	115%	SPK: 50
1868-53-7	Dibromofluoromethane	51.6		70 (54) - 130 (147)	103%	SPK: 50
2037-26-5	Toluene-d8	48.9		70 (58) - 130 (134)	98%	SPK: 50
460-00-4	4-Bromofluorobenzene	44.3		70 (29) - 130 (146)	89%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	193000	7.707			
540-36-3	1,4-Difluorobenzene	404000	8.616			
3114-55-4	Chlorobenzene-d5	365000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	126000	13.347			

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Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	
Project:	Rt. 10 Whippany	Date Received:	
Client Sample ID:	VY1101SBL01	SDG No.:	P4663
Lab Sample ID:	VY1101SBL01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY020110.D	1		11/01/24 09:42	VY110124

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:	Union Paving & Construction Company	Date Collected:	
Project:	Rt. 10 Whippany	Date Received:	
Client Sample ID:	VY1101SBS01	SDG No.:	P4663
Lab Sample ID:	VY1101SBS01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY020111.D	1		11/01/24 10:33	VY110124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	20.9		1.70	5.00	ug/Kg
74-87-3	Chloromethane	22.1		1.20	5.00	ug/Kg
75-01-4	Vinyl Chloride	21.4		0.77	5.00	ug/Kg
74-83-9	Bromomethane	21.3		1.00	5.00	ug/Kg
75-00-3	Chloroethane	22.2		1.00	5.00	ug/Kg
75-69-4	Trichlorofluoromethane	22.2		0.91	5.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	21.0		1.10	5.00	ug/Kg
75-35-4	1,1-Dichloroethene	21.3		0.78	5.00	ug/Kg
67-64-1	Acetone	100		6.20	25.0	ug/Kg
75-15-0	Carbon Disulfide	21.0		1.30	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	22.1		0.67	5.00	ug/Kg
79-20-9	Methyl Acetate	22.3		1.80	5.00	ug/Kg
75-09-2	Methylene Chloride	20.8		3.40	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	21.2		0.84	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	22.3		0.63	5.00	ug/Kg
110-82-7	Cyclohexane	20.5		0.69	5.00	ug/Kg
78-93-3	2-Butanone	110		5.70	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	20.3		0.87	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	21.9		0.61	5.00	ug/Kg
74-97-5	Bromochloromethane	21.5		2.40	5.00	ug/Kg
67-66-3	Chloroform	21.9		0.67	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	21.5		0.78	5.00	ug/Kg
108-87-2	Methylcyclohexane	19.8		0.87	5.00	ug/Kg
71-43-2	Benzene	21.0		0.72	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	21.2		0.61	5.00	ug/Kg
79-01-6	Trichloroethene	20.7		0.75	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	21.1		0.66	5.00	ug/Kg
75-27-4	Bromodichloromethane	21.7		0.56	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	110		4.40	25.0	ug/Kg
108-88-3	Toluene	21.1		0.67	5.00	ug/Kg

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Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	
Project:	Rt. 10 Whippany	Date Received:	
Client Sample ID:	VY1101SBS01	SDG No.:	P4663
Lab Sample ID:	VY1101SBS01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY020111.D	1		11/01/24 10:33	VY110124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	20.6		0.60	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	21.3		0.57	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	20.9		0.84	5.00	ug/Kg
591-78-6	2-Hexanone	110		4.80	25.0	ug/Kg
124-48-1	Dibromochloromethane	21.1		0.65	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	20.7		0.79	5.00	ug/Kg
127-18-4	Tetrachloroethene	20.5		0.89	5.00	ug/Kg
108-90-7	Chlorobenzene	20.9		0.74	5.00	ug/Kg
100-41-4	Ethyl Benzene	20.4		0.62	5.00	ug/Kg
179601-23-1	m/p-Xylenes	41.6		1.40	10.0	ug/Kg
95-47-6	o-Xylene	20.1		0.70	5.00	ug/Kg
100-42-5	Styrene	20.8		0.60	5.00	ug/Kg
75-25-2	Bromoform	20.5		0.81	5.00	ug/Kg
98-82-8	Isopropylbenzene	20.2		0.67	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	20.2		1.10	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	20.6		0.74	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	20.7		0.80	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	20.8		0.59	5.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	18.9		1.60	5.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	19.5		0.79	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	18.8		0.78	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	59.4		70 (50) - 130 (163)	119%	SPK: 50
1868-53-7	Dibromofluoromethane	56.7		70 (54) - 130 (147)	113%	SPK: 50
2037-26-5	Toluene-d8	57.8		70 (58) - 130 (134)	116%	SPK: 50
460-00-4	4-Bromofluorobenzene	56.0		70 (29) - 130 (146)	112%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	225000	7.707			
540-36-3	1,4-Difluorobenzene	413000	8.616			
3114-55-4	Chlorobenzene-d5	362000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	170000	13.347			

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Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	
Project:	Rt. 10 Whippany	Date Received:	
Client Sample ID:	VY1101SBS01	SDG No.:	P4663
Lab Sample ID:	VY1101SBS01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY020111.D	1		11/01/24 10:33	VY110124

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:	Union Paving & Construction Company	Date Collected:	
Project:	Rt. 10 Whippany	Date Received:	
Client Sample ID:	VY1101SBSD01	SDG No.:	P4663
Lab Sample ID:	VY1101SBSD01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY020112.D	1		11/01/24 11:12	VY110124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	20.5		1.70	5.00	ug/Kg
74-87-3	Chloromethane	22.1		1.20	5.00	ug/Kg
75-01-4	Vinyl Chloride	21.3		0.77	5.00	ug/Kg
74-83-9	Bromomethane	20.5		1.00	5.00	ug/Kg
75-00-3	Chloroethane	21.2		1.00	5.00	ug/Kg
75-69-4	Trichlorofluoromethane	21.6		0.91	5.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	21.5		1.10	5.00	ug/Kg
75-35-4	1,1-Dichloroethene	20.8		0.78	5.00	ug/Kg
67-64-1	Acetone	110		6.20	25.0	ug/Kg
75-15-0	Carbon Disulfide	20.8		1.30	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	21.0		0.67	5.00	ug/Kg
79-20-9	Methyl Acetate	21.9		1.80	5.00	ug/Kg
75-09-2	Methylene Chloride	19.7		3.40	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	20.9		0.84	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	21.1		0.63	5.00	ug/Kg
110-82-7	Cyclohexane	20.4		0.69	5.00	ug/Kg
78-93-3	2-Butanone	110		5.70	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	20.7		0.87	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	20.7		0.61	5.00	ug/Kg
74-97-5	Bromochloromethane	20.0		2.40	5.00	ug/Kg
67-66-3	Chloroform	21.6		0.67	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	20.7		0.78	5.00	ug/Kg
108-87-2	Methylcyclohexane	19.7		0.87	5.00	ug/Kg
71-43-2	Benzene	21.0		0.72	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	21.0		0.61	5.00	ug/Kg
79-01-6	Trichloroethene	20.3		0.75	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	20.9		0.66	5.00	ug/Kg
75-27-4	Bromodichloromethane	21.1		0.56	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	110		4.40	25.0	ug/Kg
108-88-3	Toluene	20.9		0.67	5.00	ug/Kg

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Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	
Project:	Rt. 10 Whippany	Date Received:	
Client Sample ID:	VY1101SBSD01	SDG No.:	P4663
Lab Sample ID:	VY1101SBSD01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY020112.D	1		11/01/24 11:12	VY110124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	20.0		0.60	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	20.5		0.57	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	21.6		0.84	5.00	ug/Kg
591-78-6	2-Hexanone	110		4.80	25.0	ug/Kg
124-48-1	Dibromochloromethane	20.9		0.65	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	20.2		0.79	5.00	ug/Kg
127-18-4	Tetrachloroethene	20.5		0.89	5.00	ug/Kg
108-90-7	Chlorobenzene	20.6		0.74	5.00	ug/Kg
100-41-4	Ethyl Benzene	20.8		0.62	5.00	ug/Kg
179601-23-1	m/p-Xylenes	41.4		1.40	10.0	ug/Kg
95-47-6	o-Xylene	20.6		0.70	5.00	ug/Kg
100-42-5	Styrene	21.2		0.60	5.00	ug/Kg
75-25-2	Bromoform	20.8		0.81	5.00	ug/Kg
98-82-8	Isopropylbenzene	20.9		0.67	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	20.5		1.10	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	20.6		0.74	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	21.0		0.80	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	21.3		0.59	5.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	20.9		1.60	5.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	20.0		0.79	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	20.2		0.78	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	52.2		70 (50) - 130 (163)	104%	SPK: 50
1868-53-7	Dibromofluoromethane	51.6		70 (54) - 130 (147)	103%	SPK: 50
2037-26-5	Toluene-d8	51.5		70 (58) - 130 (134)	103%	SPK: 50
460-00-4	4-Bromofluorobenzene	51.2		70 (29) - 130 (146)	102%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	252000	7.707			
540-36-3	1,4-Difluorobenzene	455000	8.616			
3114-55-4	Chlorobenzene-d5	393000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	182000	13.346			

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Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	
Project:	Rt. 10 Whippany	Date Received:	
Client Sample ID:	VY1101SBSD01	SDG No.:	P4663
Lab Sample ID:	VY1101SBSD01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY020112.D	1		11/01/24 11:12	VY110124

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: UNIO02

Lab Code: CHEM Case No.: P4663 SAS No.: P4663 SDG No.: P4663

Instrument ID: MSVOA_Y Calibration Date(s): 10/30/2024 10/30/2024

Heated Purge: (Y/N) Y Calibration Time(s): 12:39 14:52

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

LAB FILE ID: RRF005 = VY020075.D RRF010 = VY020076.D RRF020 = VY020077.D
RRF050 = VY020078.D RRF100 = VY020079.D RRF150 = VY020080.D

COMPOUND	RRF005	RRF010	RRF020	RRF050	RRF100	RRF150	$\overline{RRF}$	% RSD
Dichlorodifluoromethane	0.507	0.488	0.482	0.381	0.456	0.463	0.463	9.5
Chloromethane	0.831	0.835	0.791	0.683	0.731	0.728	0.767	8.1
Vinyl Chloride	0.867	0.874	0.835	0.754	0.809	0.799	0.823	5.5
Bromomethane	0.631	0.574	0.545	0.480	0.521	0.528	0.546	9.5
Chloroethane	0.562	0.555	0.546	0.486	0.527	0.511	0.531	5.5
Trichlorofluoromethane	1.025	1.018	1.037	0.927	1.012	1.014	1.005	3.9
1,1,2-Trichlorotrifluoroethane	0.597	0.584	0.567	0.509	0.561	0.565	0.564	5.3
1,1-Dichloroethene	0.534	0.578	0.536	0.493	0.543	0.552	0.540	5.1
Acetone	0.134	0.138	0.138	0.140	0.165	0.155	0.145	8.5
Carbon Disulfide	1.790	1.835	1.806	1.674	1.832	1.837	1.796	3.5
Methyl tert-butyl Ether	1.229	1.344	1.376	1.241	1.483	1.471	1.357	8
Methyl Acetate	0.314	0.357	0.351	0.317	0.362	0.342	0.340	6
Methylene Chloride	0.807	0.716	0.641	0.555	0.597	0.597	0.652	14.3
trans-1,2-Dichloroethene	0.611	0.618	0.613	0.564	0.616	0.628	0.609	3.7
1,1-Dichloroethane	1.155	1.209	1.189	1.070	1.194	1.200	1.170	4.5
Cyclohexane	1.284	1.206	1.138	0.986	1.093	1.088	1.132	9.1
2-Butanone	0.187	0.197	0.192	0.179	0.219	0.206	0.197	7.3
Carbon Tetrachloride	0.467	0.491	0.499	0.462	0.519	0.524	0.494	5.2
cis-1,2-Dichloroethene	0.646	0.714	0.715	0.646	0.740	0.736	0.700	6.1
Bromochloromethane	0.572	0.562	0.527	0.505	0.553	0.567	0.548	4.8
Chloroform	1.141	1.170	1.186	1.068	1.196	1.203	1.161	4.3
1,1,1-Trichloroethane	0.986	1.026	1.009	0.950	1.041	1.069	1.013	4.1
Methylcyclohexane	0.603	0.602	0.631	0.578	0.665	0.661	0.623	5.6
Benzene	1.414	1.405	1.455	1.325	1.504	1.498	1.433	4.7
1,2-Dichloroethane	0.379	0.391	0.402	0.365	0.425	0.418	0.397	5.8
Trichloroethene	0.328	0.331	0.332	0.307	0.348	0.346	0.332	4.4
1,2-Dichloropropane	0.323	0.331	0.357	0.320	0.363	0.364	0.343	6
Bromodichloromethane	0.459	0.476	0.487	0.451	0.526	0.522	0.487	6.4
4-Methyl-2-Pentanone	0.190	0.223	0.238	0.219	0.269	0.252	0.232	11.9
Toluene	0.803	0.859	0.900	0.833	0.953	0.953	0.884	7.1

* 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: UNIO02

Lab Code: CHEM Case No.: P4663 SAS No.: P4663 SDG No.: P4663

Instrument ID: MSVOA_Y Calibration Date(s): 10/30/2024 10/30/2024

Heated Purge: (Y/N) Y Calibration Time(s): 12:39 14:52

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

LAB FILE ID: RRF005 = VY020075.D RRF010 = VY020076.D RRF020 = VY020077.D
RRF050 = VY020078.D RRF100 = VY020079.D RRF150 = VY020080.D

COMPOUND	RRF005	RRF010	RRF020	RRF050	RRF100	RRF150	$\overline{RRF}$	% RSD
t-1,3-Dichloropropene	0.369	0.400	0.436	0.401	0.486	0.487	0.430	11.3
cis-1,3-Dichloropropene	0.446	0.485	0.518	0.484	0.573	0.573	0.513	10
1,1,2-Trichloroethane	0.206	0.225	0.235	0.216	0.257	0.248	0.231	8.4
2-Hexanone	0.131	0.161	0.168	0.158	0.198	0.182	0.166	13.7
Dibromochloromethane	0.256	0.281	0.300	0.273	0.332	0.326	0.295	10.3
1,2-Dibromoethane	0.203	0.214	0.215	0.196	0.233	0.228	0.215	6.7
Tetrachloroethene	0.326	0.316	0.344	0.307	0.344	0.343	0.330	4.8
Chlorobenzene	1.024	1.044	1.094	0.993	1.114	1.124	1.065	5
Ethyl Benzene	1.886	1.934	2.015	1.876	2.114	2.124	1.992	5.5
m/p-Xylenes	0.685	0.693	0.742	0.692	0.779	0.782	0.729	6.2
o-Xylene	0.652	0.662	0.686	0.649	0.745	0.745	0.690	6.5
Styrene	0.985	1.080	1.154	1.093	1.259	1.273	1.141	9.8
Bromoform	0.151	0.162	0.173	0.165	0.202	0.195	0.175	11.4
Isopropylbenzene	4.065	3.829	3.995	3.685	4.099	4.293	3.994	5.3
1,1,2,2-Tetrachloroethane	0.716	0.707	0.698	0.624	0.727	0.719	0.699	5.4
1,3-Dichlorobenzene	1.659	1.521	1.680	1.509	1.703	1.774	1.641	6.4
1,4-Dichlorobenzene	1.680	1.604	1.653	1.487	1.666	1.716	1.634	5
1,2-Dichlorobenzene	1.391	1.384	1.460	1.310	1.483	1.530	1.426	5.6
1,2-Dibromo-3-Chloropropane	0.107	0.104	0.106	0.092	0.114	0.112	0.106	7.6
1,2,4-Trichlorobenzene	0.652	0.708	0.784	0.693	0.865	0.895	0.766	12.8
1,2,3-Trichlorobenzene	0.578	0.606	0.653	0.575	0.737	0.754	0.650	12.1
1,2-Dichloroethane-d4	0.608	0.657	0.578	0.586	0.668	0.647	0.624	6.1
Dibromofluoromethane	0.305	0.317	0.300	0.305	0.340	0.340	0.318	5.7
Toluene-d8	1.187	1.251	1.187	1.224	1.380	1.364	1.265	6.8
4-Bromofluorobenzene	0.371	0.402	0.376	0.399	0.463	0.454	0.411	9.5

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

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VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: UNIO02

Lab Code: CHEM Case No.: P4663 SAS No.: P4663 SDG No.: P4663

Instrument ID: MSVOA_Y Calibration Date/Time: 11/01/2024 09:02

Lab File ID: VY020109.D Init. Calib. Date(s): 10/30/2024 10/30/2024

Heated Purge: (Y/N) Y Init. Calib. Time(s): 12:39 14:52

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.463	0.416		-10.15	20
Chloromethane	0.767	0.738	0.1	-3.78	20
Vinyl Chloride	0.823	0.819		-0.49	20
Bromomethane	0.546	0.498		-8.79	20
Chloroethane	0.531	0.533		0.38	20
Trichlorofluoromethane	1.005	1.006		0.1	20
1,1,2-Trichlorotrifluoroethane	0.564	0.567		0.53	20
1,1-Dichloroethene	0.540	0.544		0.74	20
Acetone	0.145	0.171		17.93	20
Carbon Disulfide	1.796	1.799		0.17	20
Methyl tert-butyl Ether	1.357	1.331		-1.92	20
Methyl Acetate	0.340	0.316		-7.06	20
Methylene Chloride	0.652	0.581		-10.89	20
trans-1,2-Dichloroethene	0.609	0.606		-0.49	20
1,1-Dichloroethane	1.170	1.189	0.1	1.62	20
Cyclohexane	1.132	1.101		-2.74	20
2-Butanone	0.197	0.205		4.06	20
Carbon Tetrachloride	0.494	0.533		7.89	20
cis-1,2-Dichloroethene	0.700	0.703		0.43	20
Bromochloromethane	0.548	0.558		1.83	20
Chloroform	1.161	1.178		1.46	20
1,1,1-Trichloroethane	1.013	1.038		2.47	20
Methylcyclohexane	0.623	0.670		7.54	20
Benzene	1.433	1.512		5.51	20
1,2-Dichloroethane	0.397	0.403		1.51	20
Trichloroethene	0.332	0.346		4.22	20
1,2-Dichloropropane	0.343	0.366		6.71	20
Bromodichloromethane	0.487	0.509		4.52	20
4-Methyl-2-Pentanone	0.232	0.240		3.45	20
Toluene	0.884	0.962		8.82	20
t-1,3-Dichloropropene	0.430	0.446		3.72	20
cis-1,3-Dichloropropene	0.513	0.545		6.24	20
1,1,2-Trichloroethane	0.231	0.240		3.9	20
2-Hexanone	0.166	0.183		10.24	20
Dibromochloromethane	0.295	0.302		2.37	20
1,2-Dibromoethane	0.215	0.215		0	20
Tetrachloroethene	0.330	0.354		7.27	20
Chlorobenzene	1.065	1.146	0.3	7.61	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: UNIO02

Lab Code: CHEM Case No.: P4663 SAS No.: P4663 SDG No.: P4663

Instrument ID: MSVOA_Y Calibration Date/Time: 11/01/2024 09:02

Lab File ID: VY020109.D Init. Calib. Date(s): 10/30/2024 10/30/2024

Heated Purge: (Y/N) Y Init. Calib. Time(s): 12:39 14:52

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Ethyl Benzene	1.992	2.169		8.89	20
m/p-Xylenes	0.729	0.794		8.92	20
o-Xylene	0.690	0.761		10.29	20
Styrene	1.141	1.258		10.25	20
Bromoform	0.175	0.184	0.1	5.14	20
Isopropylbenzene	3.994	4.389		9.89	20
1,1,2,2-Tetrachloroethane	0.699	0.687	0.3	-1.72	20
1,3-Dichlorobenzene	1.641	1.752		6.76	20
1,4-Dichlorobenzene	1.634	1.698		3.92	20
1,2-Dichlorobenzene	1.426	1.498		5.05	20
1,2-Dibromo-3-Chloropropane	0.106	0.101		-4.72	20
1,2,4-Trichlorobenzene	0.766	0.780		1.83	20
1,2,3-Trichlorobenzene	0.650	0.631		-2.92	20
1,2-Dichloroethane-d4	0.624	0.526		-15.7	20
Dibromofluoromethane	0.318	0.284		-10.69	20
Toluene-d8	1.265	1.175		-7.11	20
4-Bromofluorobenzene	0.411	0.381		-7.3	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\VY110124\
Data File : VY020128.D
Acq On : 01 Nov 2024 18:41
Operator : SY/MD
Sample : P4663-01
Misc : 6.74g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TENNANT-PAD-2-3-STOCKPILE

Quant Time: Nov 04 00:51:46 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103024S.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 15:23:13 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	159567	50.000	ug/l	# 0.00
34) 1,4-Difluorobenzene	8.616	114	338625	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	324781	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	118518	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	121934	61.227	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 122.460%			
35) Dibromofluoromethane	7.634	113	115825	53.798	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 107.600%			
50) Toluene-d8	10.103	98	421310	49.162	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 98.320%			
62) 4-Bromofluorobenzene	12.402	95	132684	47.667	ug/l	0.00
Spiked Amount 50.000	Range 29 - 146		Recovery = 95.340%			

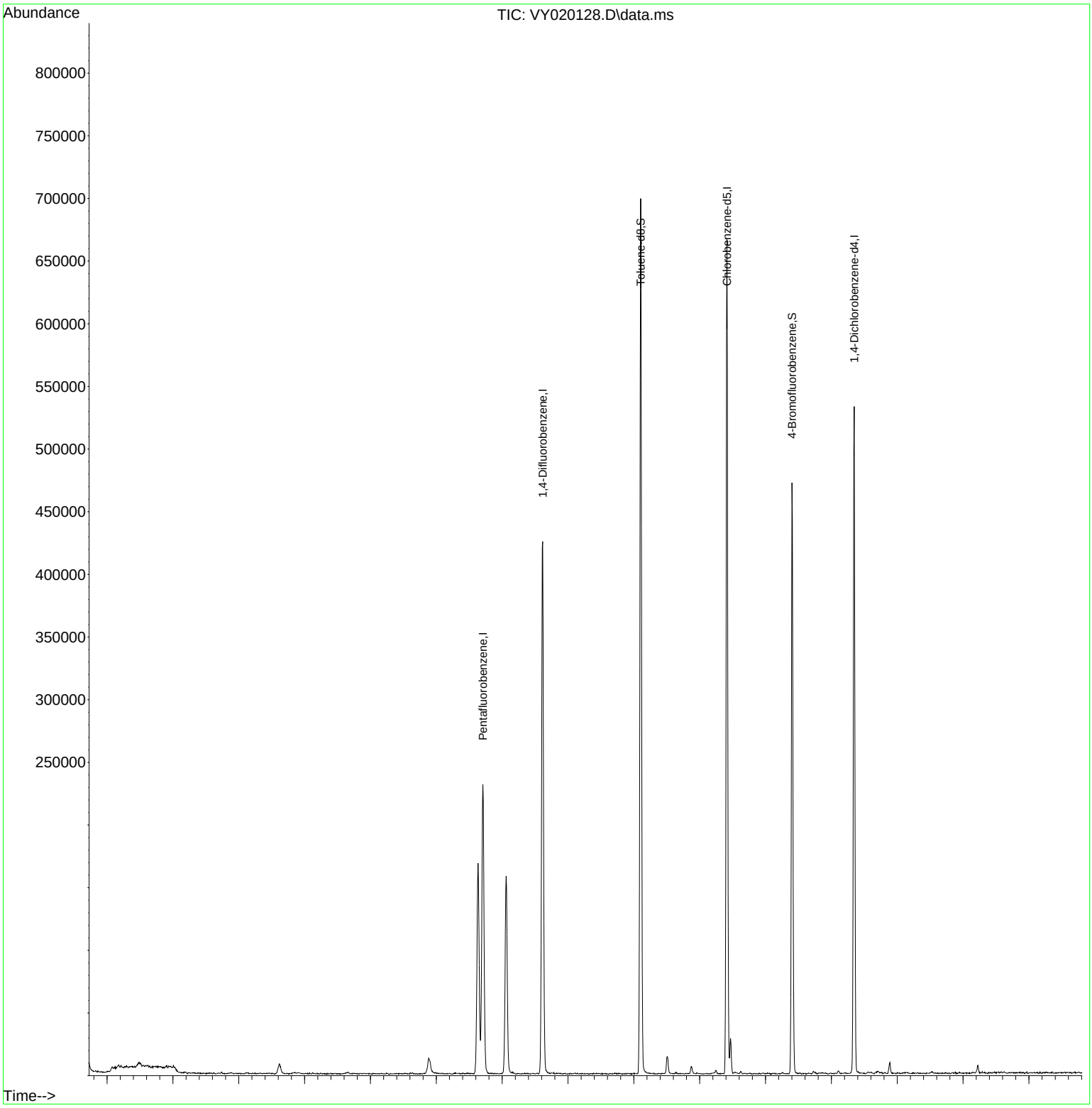
Target Compounds Qvalue

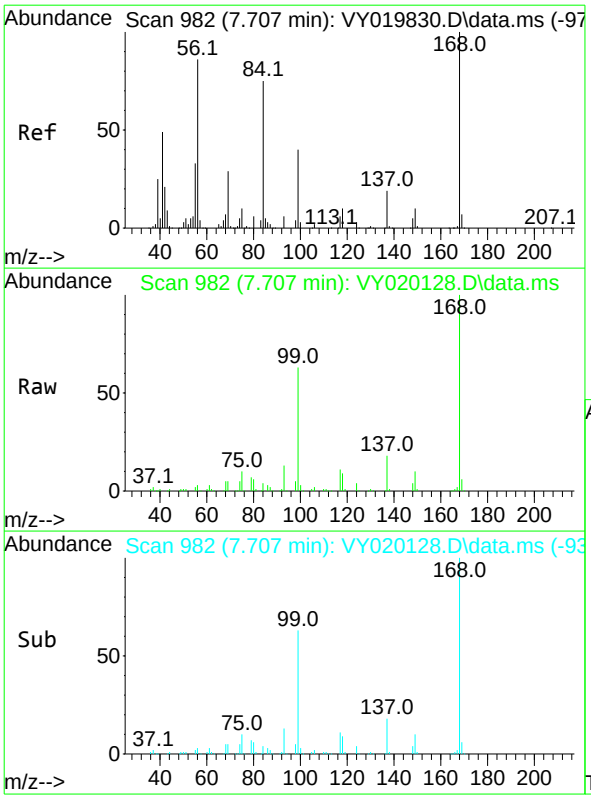
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY110124\
Data File : VY020128.D
Acq On : 01 Nov 2024 18:41
Operator : SY/MD
Sample : P4663-01
Misc : 6.74g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TENNANT-PAD-2-3-STOCKPILE

Quant Time: Nov 04 00:51:46 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103024S.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 15:23:13 2024
Response via : Initial Calibration



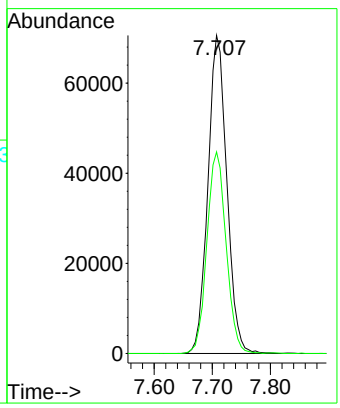


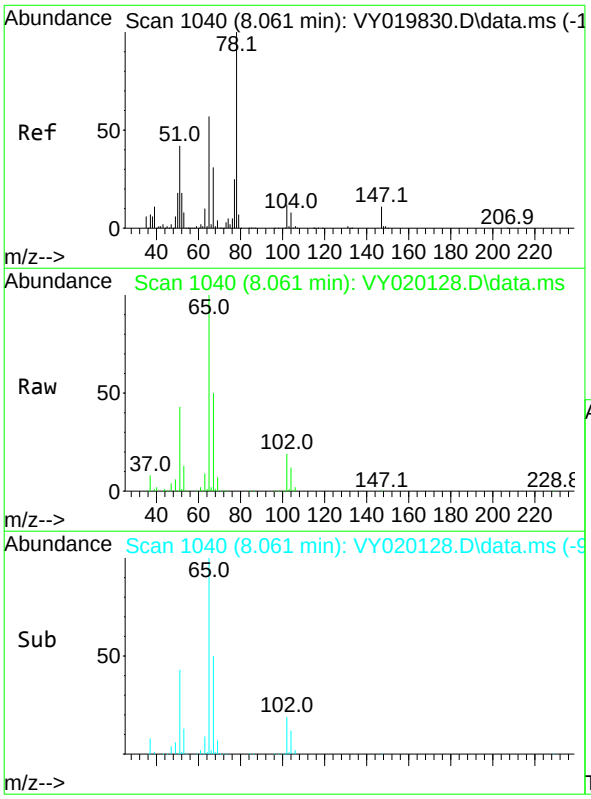
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 98
Delta R.T. 0.000 min
Lab File: VY020128.D
Acq: 01 Nov 2024 18:41

Instrument :
MSVOA_Y
ClientSampleId :
TENNANT-PAD-2-3-STOCKPILE

Tgt Ion:168 Resp: 159567

Ion	Ratio	Lower	Upper
168	100		
99	63.4	39.1	58.7#

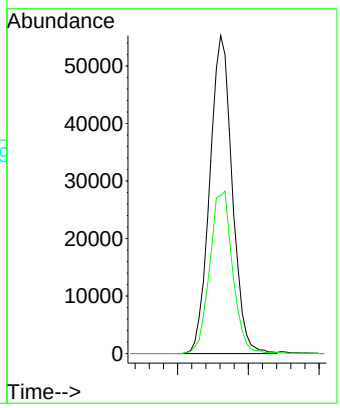


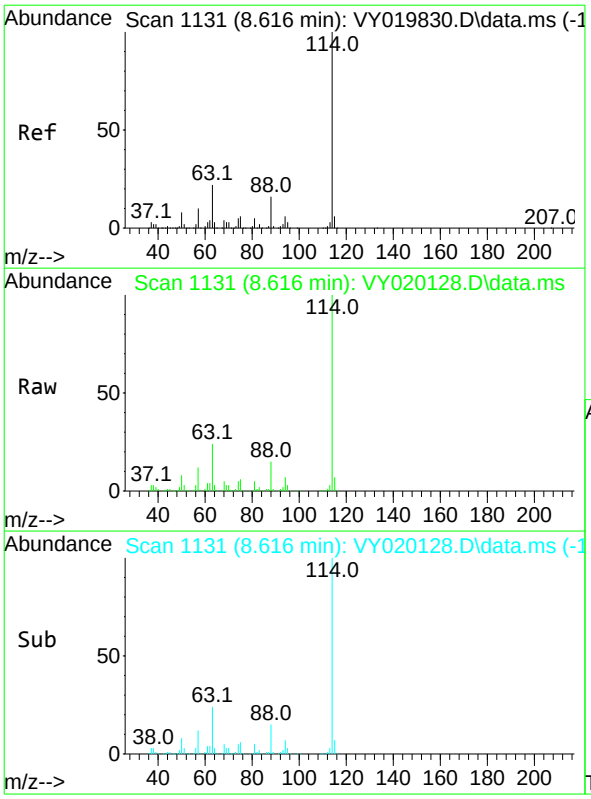


#33
1,2-Dichloroethane-d4
Concen: 61.227 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. 0.000 min
Lab File: VY020128.D
Acq: 01 Nov 2024 18:41

Tgt Ion: 65 Resp: 121934

Ion	Ratio	Lower	Upper
65	100		
67	52.1	0.0	109.6



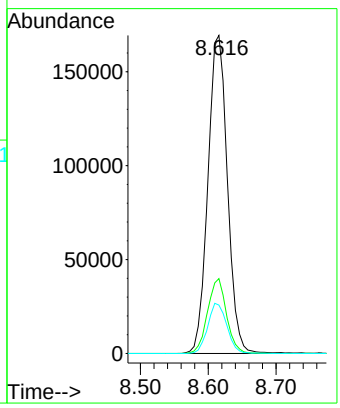


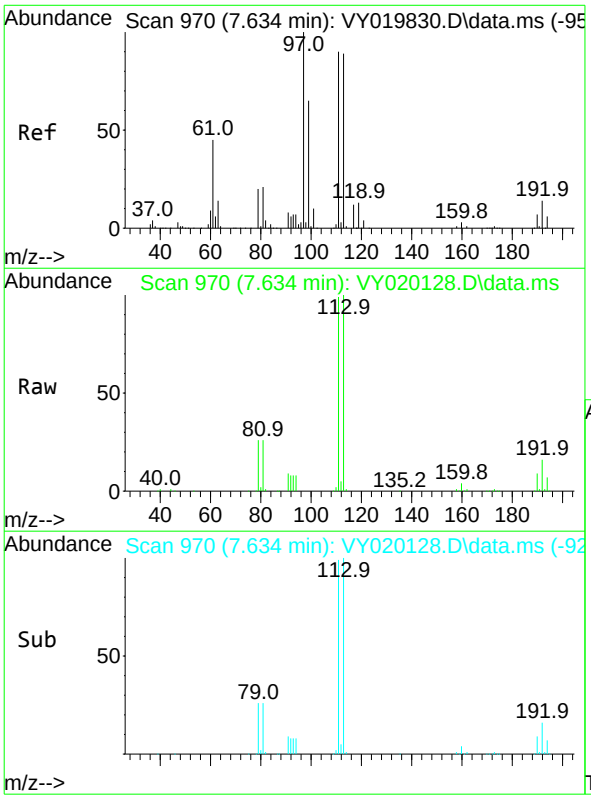
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 11
Delta R.T. 0.000 min
Lab File: VY020128.D
Acq: 01 Nov 2024 18:41

Instrument :
MSVOA_Y
ClientSampleId :
TENNANT-PAD-2-3-STOCKPILE

Tgt Ion:114 Resp: 338625

Ion	Ratio	Lower	Upper
114	100		
63	23.5	0.0	35.0
88	15.2	0.0	27.2

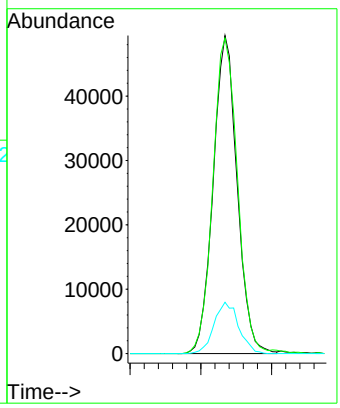


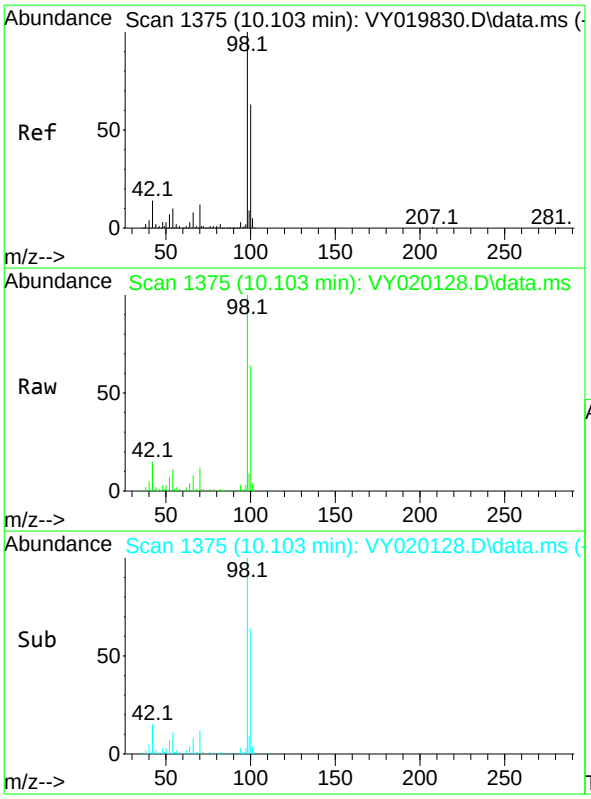


#35
Dibromofluoromethane
Concen: 53.798 ug/l
RT: 7.634 min Scan# 970
Delta R.T. 0.000 min
Lab File: VY020128.D
Acq: 01 Nov 2024 18:41

Tgt Ion:113 Resp: 115825

Ion	Ratio	Lower	Upper
113	100		
111	102.6	82.2	123.4
192	16.6	15.9	23.9



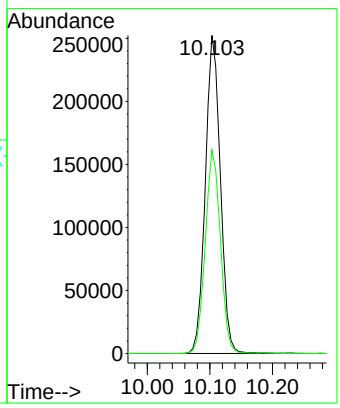


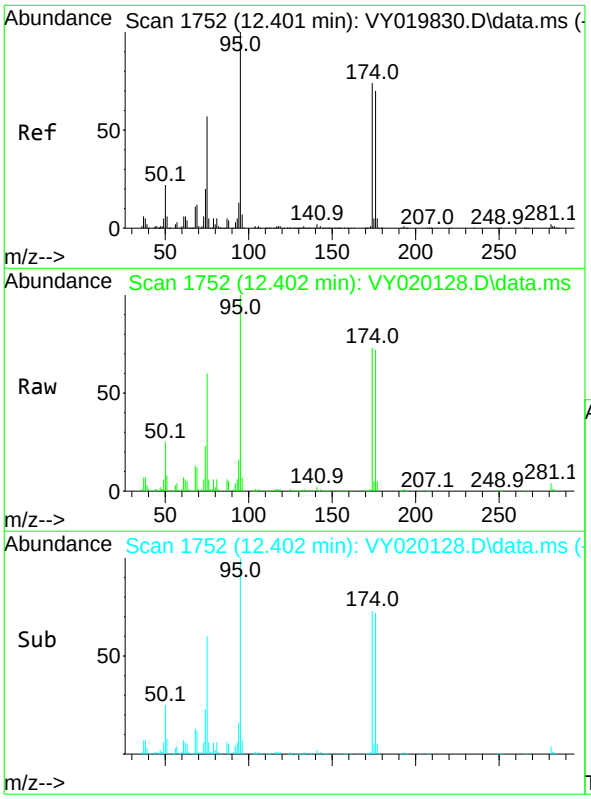
#50
Toluene-d8
Concen: 49.162 ug/l
RT: 10.103 min Scan# 13
Delta R.T. -0.006 min
Lab File: VY020128.D
Acq: 01 Nov 2024 18:41

Instrument :
MSVOA_Y
ClientSampleId :
TENNANT-PAD-2-3-STOCKPILE

Tgt Ion: 98 Resp: 421310

Ion	Ratio	Lower	Upper
98	100		
100	64.6	52.0	78.0

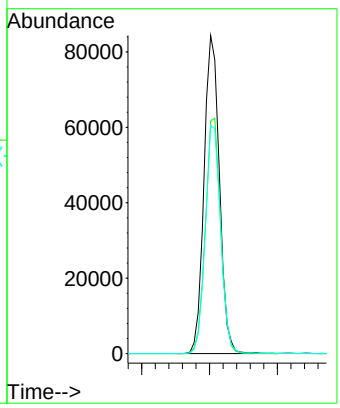


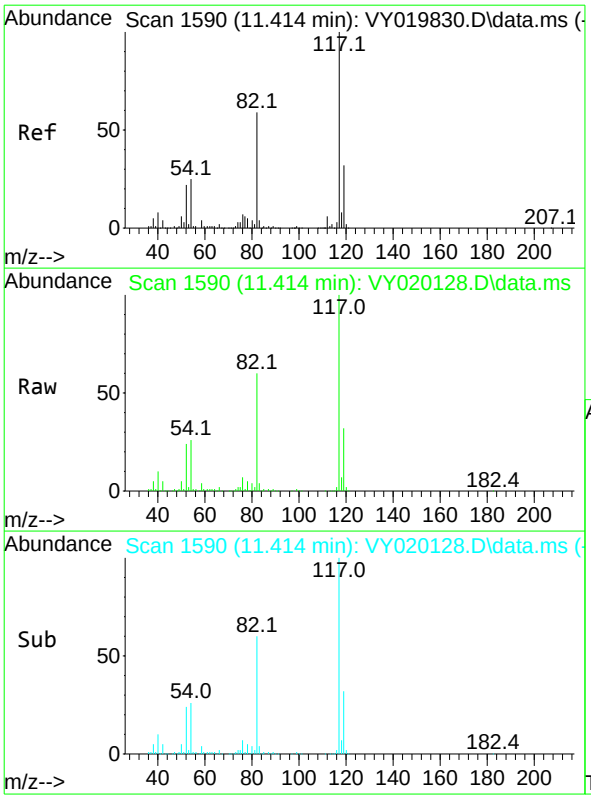


#62
4-Bromofluorobenzene
Concen: 47.667 ug/l
RT: 12.402 min Scan# 1752
Delta R.T. -0.006 min
Lab File: VY020128.D
Acq: 01 Nov 2024 18:41

Tgt Ion: 95 Resp: 132684

Ion	Ratio	Lower	Upper
95	100		
174	73.8	0.0	175.6
176	71.5	0.0	171.4



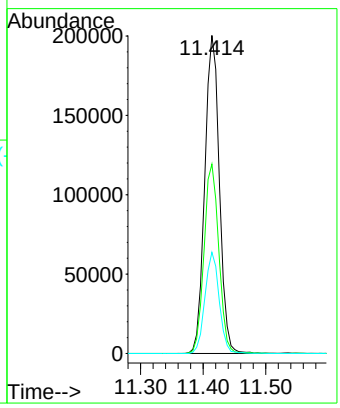


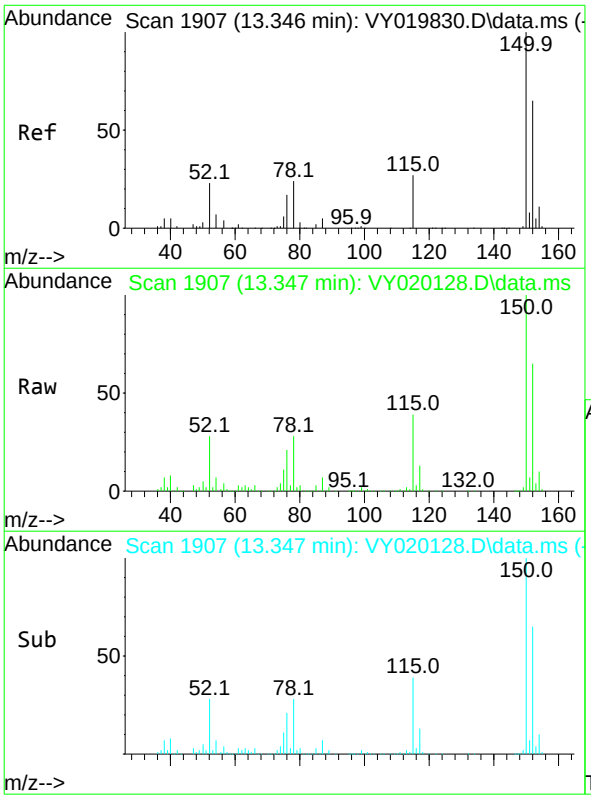
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 15
Delta R.T. -0.006 min
Lab File: VY020128.D
Acq: 01 Nov 2024 18:41

Instrument :
MSVOA_Y
ClientSampleId :
TENNANT-PAD-2-3-STOCKPILE

Tgt Ion:117 Resp: 324781

Ion	Ratio	Lower	Upper
117	100		
82	59.5	42.4	63.6
119	31.8	25.9	38.9

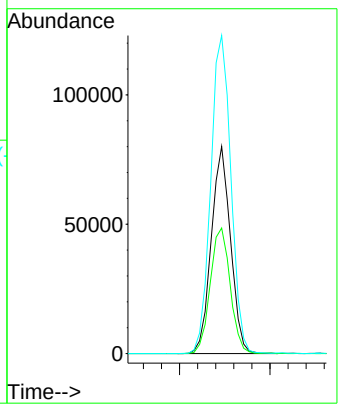




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.347 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VY020128.D
Acq: 01 Nov 2024 18:41

Tgt Ion:152 Resp: 118518

Ion	Ratio	Lower	Upper
152	100		
115	62.7	28.2	84.7
150	160.6	0.0	345.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY110124\
Data File : VY020129.D
Acq On : 01 Nov 2024 19:04
Operator : SY/MD
Sample : P4663-03
Misc : 6.25g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
RES-BUILDING-PAD-NO-11

Quant Time: Nov 04 00:52:06 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103024S.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 15:23:13 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.713	168	164371	50.000	ug/l	# 0.00
34) 1,4-Difluorobenzene	8.609	114	344945	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	309515	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	105144	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	116799	56.935	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 113.860%			
35) Dibromofluoromethane	7.634	113	113604	51.800	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 103.600%			
50) Toluene-d8	10.103	98	426232	48.825	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 97.660%			
62) 4-Bromofluorobenzene	12.401	95	124656	43.962	ug/l	0.00
Spiked Amount 50.000	Range 29 - 146		Recovery = 87.920%			

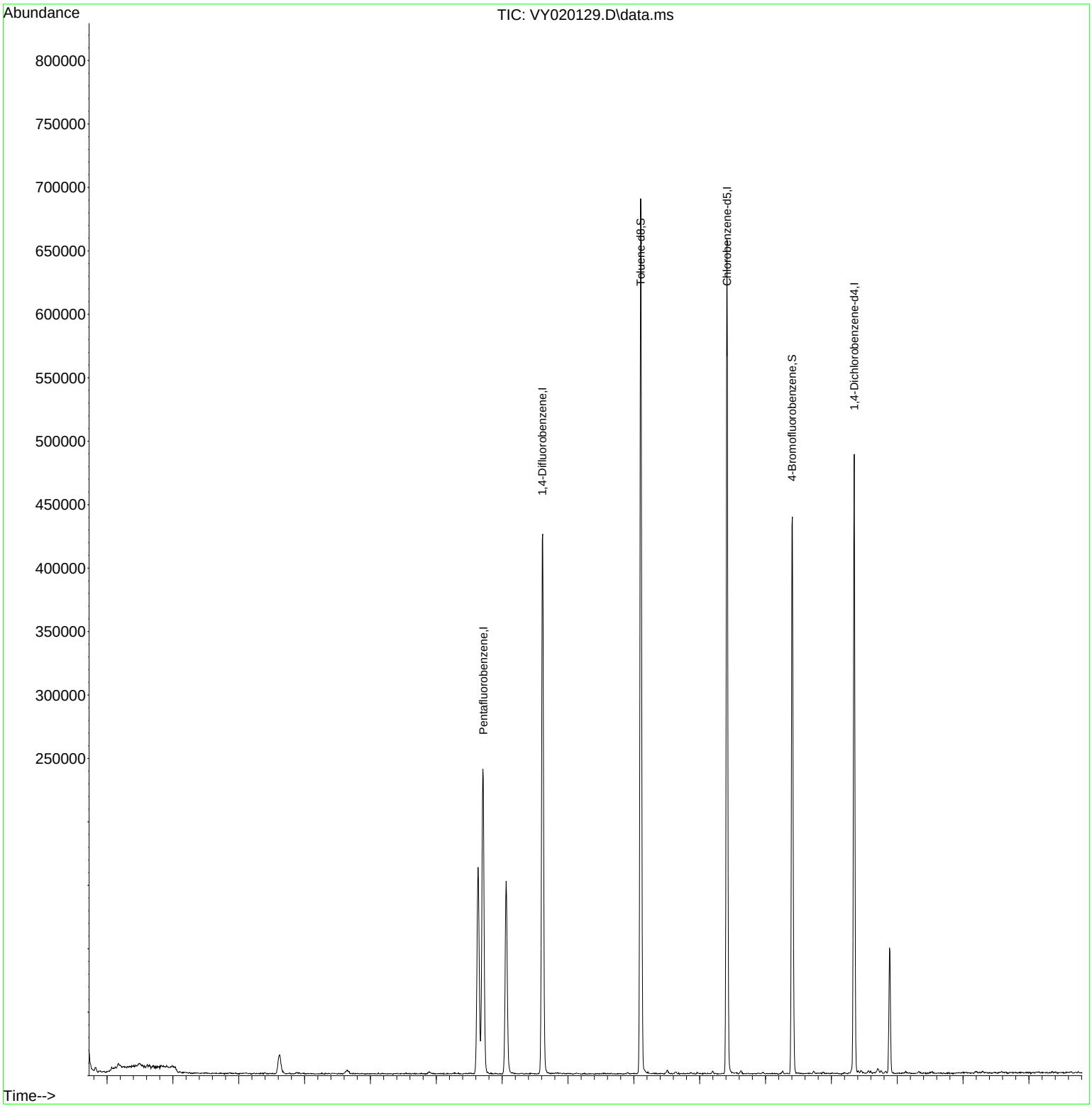
Target Compounds Qvalue

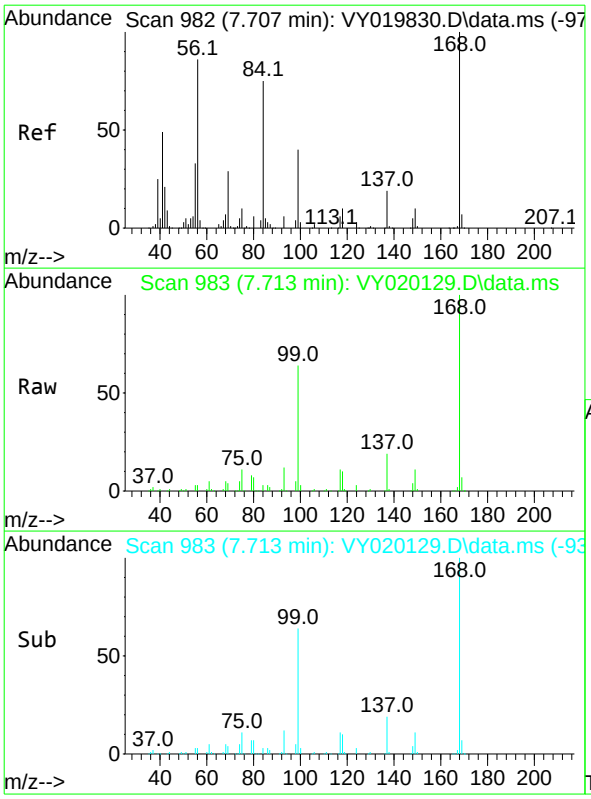
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY110124\
Data File : VY020129.D
Acq On : 01 Nov 2024 19:04
Operator : SY/MD
Sample : P4663-03
Misc : 6.25g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
RES-BUILDING-PAD-NO-11

Quant Time: Nov 04 00:52:06 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103024S.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 15:23:13 2024
Response via : Initial Calibration



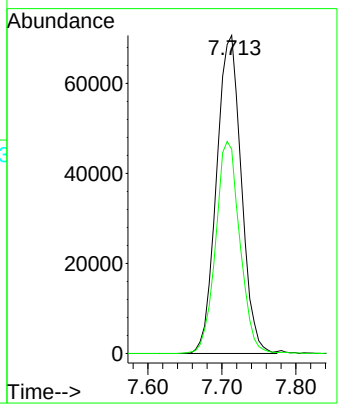


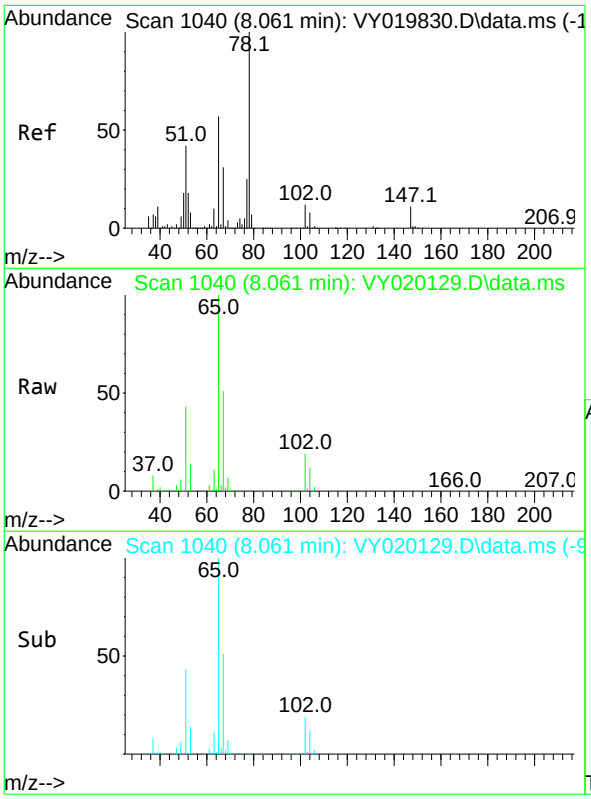
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 98
Delta R.T. 0.006 min
Lab File: VY020129.D
Acq: 01 Nov 2024 19:04

Instrument :
MSVOA_Y
ClientSampleId :
RES-BUILDING-PAD-NO-11

Tgt Ion:168 Resp: 164371

Ion	Ratio	Lower	Upper
168	100		
99	64.3	39.1	58.7#

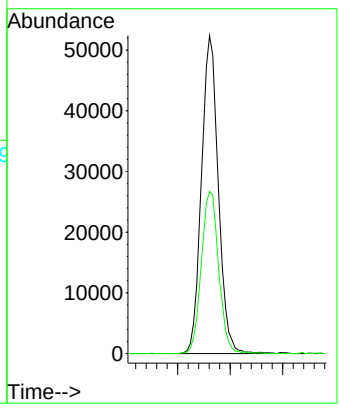




#33
1,2-Dichloroethane-d4
Concen: 56.935 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. 0.000 min
Lab File: VY020129.D
Acq: 01 Nov 2024 19:04

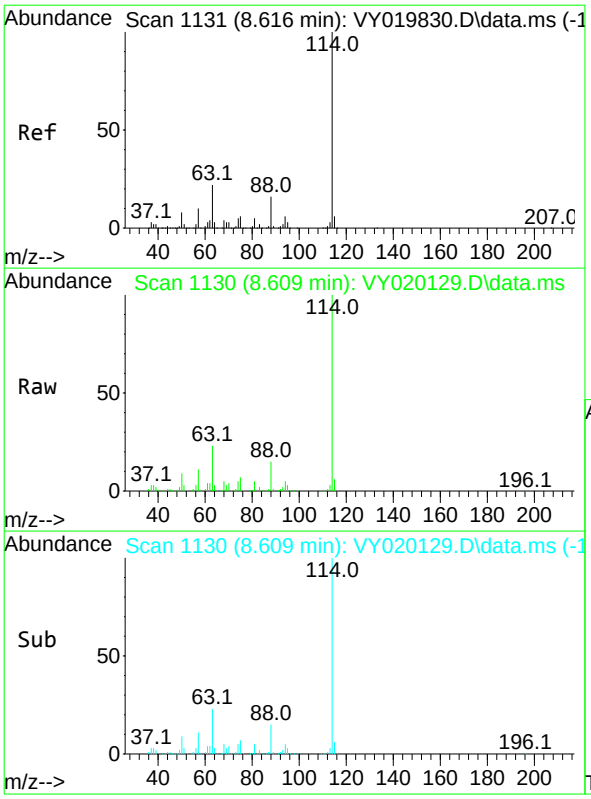
Tgt Ion: 65 Resp: 116799

Ion	Ratio	Lower	Upper
65	100		
67	52.6	0.0	109.6



5

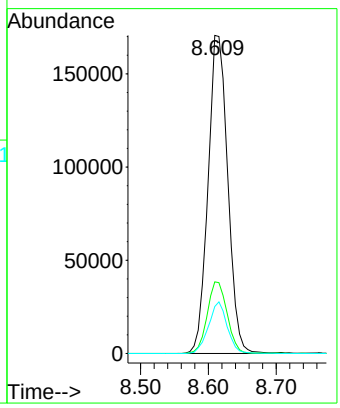
Instrument :
MSVOA_Y
ClientSampleId :
RES-BUILDING-PAD-NO-11

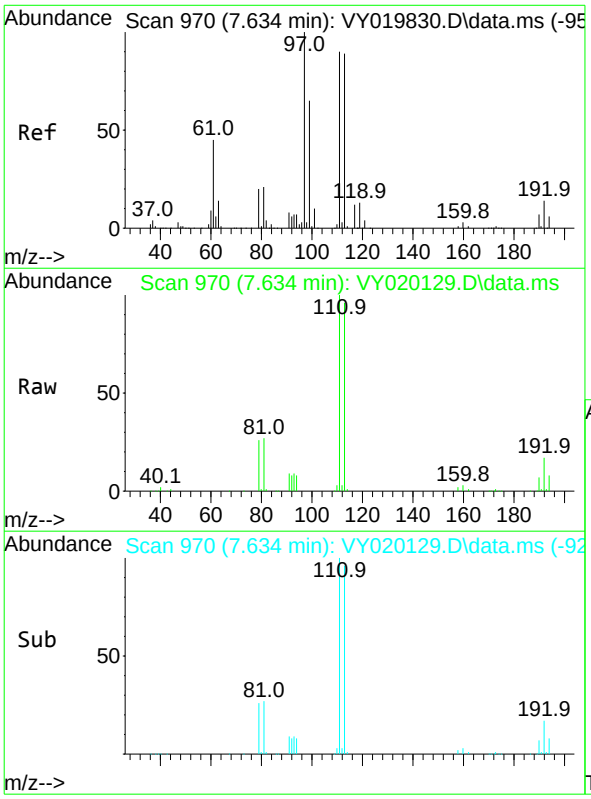


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.609 min Scan# 11
Delta R.T. -0.006 min
Lab File: VY020129.D
Acq: 01 Nov 2024 19:04

Tgt Ion:114 Resp: 344945

Ion	Ratio	Lower	Upper
114	100		
63	22.5	0.0	35.0
88	14.8	0.0	27.2

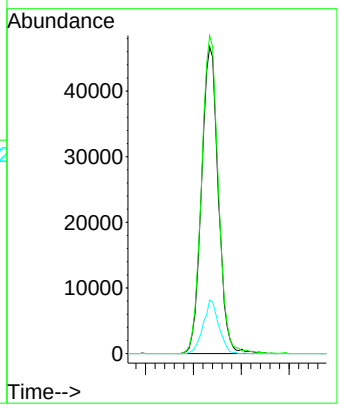


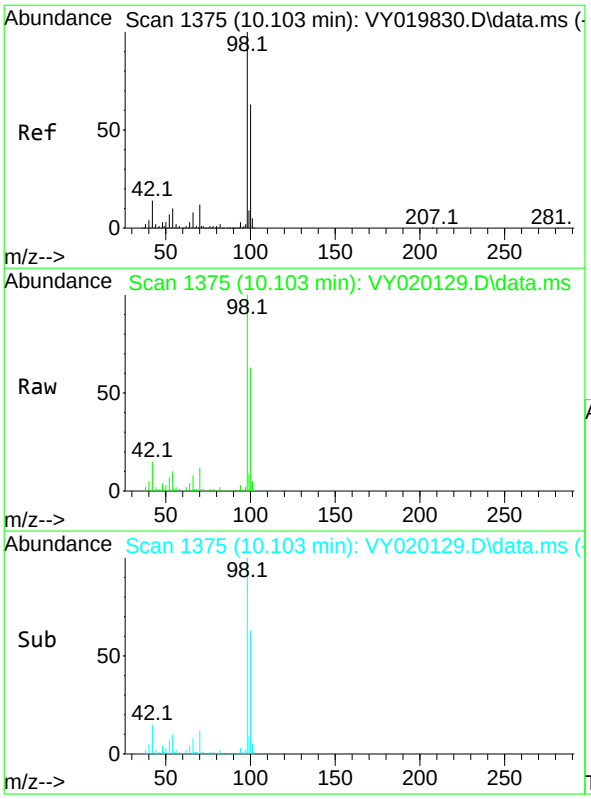


#35
Dibromofluoromethane
Concen: 51.800 ug/l
RT: 7.634 min Scan# 970
Delta R.T. 0.000 min
Lab File: VY020129.D
Acq: 01 Nov 2024 19:04

Tgt Ion:113 Resp: 113604

Ion	Ratio	Lower	Upper
113	100		
111	104.0	82.2	123.4
192	16.3	15.9	23.9



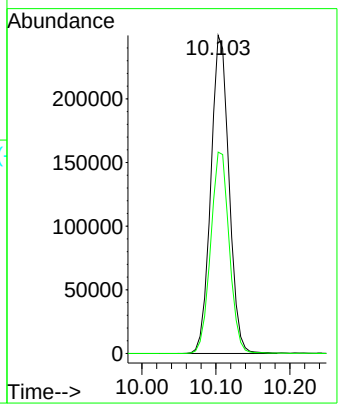


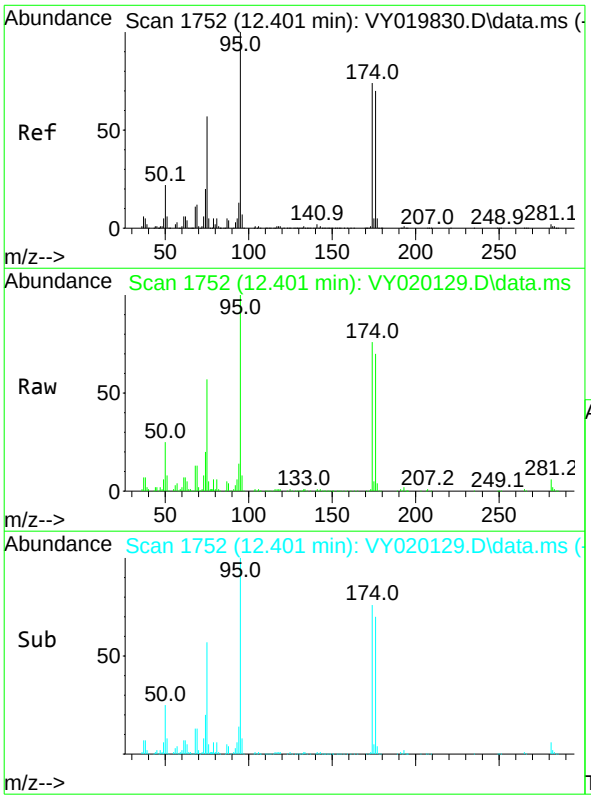
#50
Toluene-d8
Concen: 48.825 ug/l
RT: 10.103 min Scan# 13
Delta R.T. -0.006 min
Lab File: VY020129.D
Acq: 01 Nov 2024 19:04

Instrument :
MSVOA_Y
ClientSampleId :
RES-BUILDING-PAD-NO-11

Tgt Ion: 98 Resp: 426232

Ion	Ratio	Lower	Upper
98	100		
100	64.9	52.0	78.0

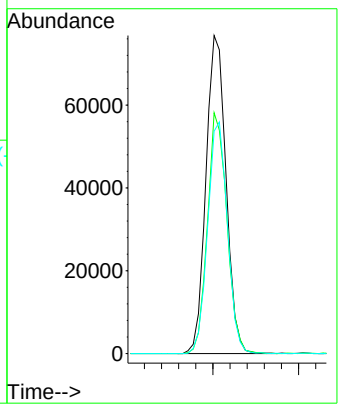


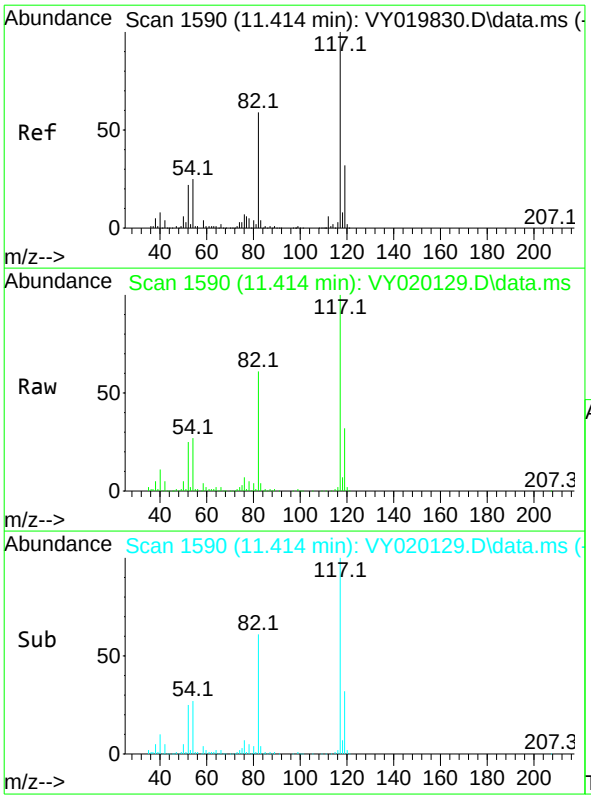


#62
4-Bromofluorobenzene
Concen: 43.962 ug/l
RT: 12.401 min Scan# 1752
Delta R.T. -0.006 min
Lab File: VY020129.D
Acq: 01 Nov 2024 19:04

Tgt Ion: 95 Resp: 124656

Ion	Ratio	Lower	Upper
95	100		
174	73.5	0.0	175.6
176	71.8	0.0	171.4



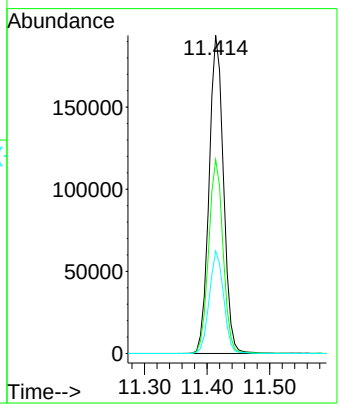


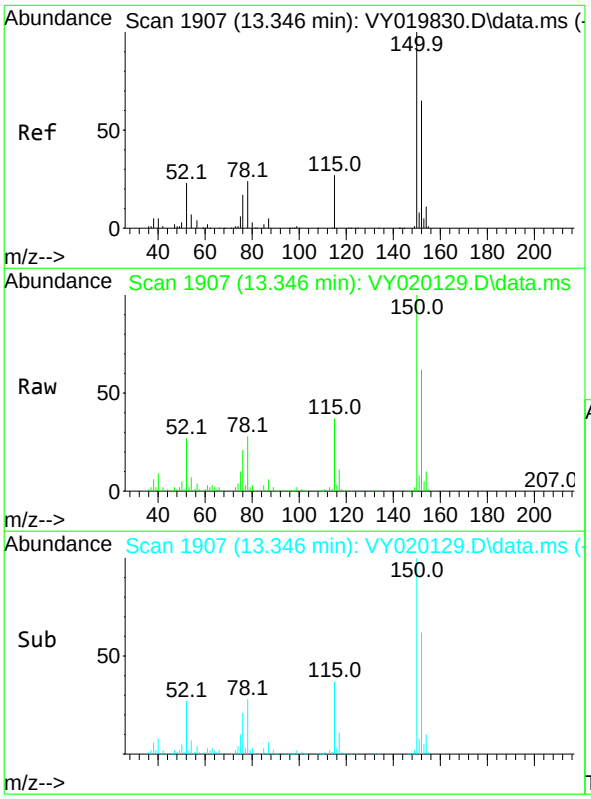
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 15
Delta R.T. -0.006 min
Lab File: VY020129.D
Acq: 01 Nov 2024 19:04

Instrument :
MSVOA_Y
ClientSampleId :
RES-BUILDING-PAD-NO-11

Tgt Ion:117 Resp: 309515

Ion	Ratio	Lower	Upper
117	100		
82	60.9	42.4	63.6
119	32.2	25.9	38.9

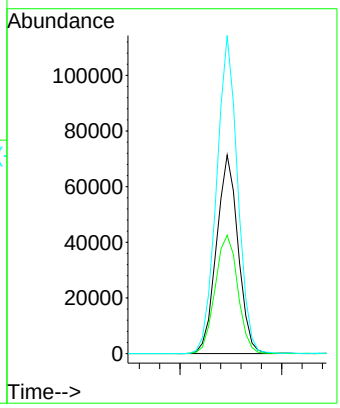




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VY020129.D
Acq: 01 Nov 2024 19:04

Tgt Ion:152 Resp: 105144

Ion	Ratio	Lower	Upper
152	100		
115	62.6	28.2	84.7
150	156.2	0.0	345.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY110124\
Data File : VY020130.D
Acq On : 01 Nov 2024 19:27
Operator : SY/MD
Sample : P4663-05
Misc : 7.16g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 23 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
RES-BUILDING-PAD-NO-3

Quant Time: Nov 04 00:52:28 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103024S.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 15:23:13 2024
Response via : Initial Calibration

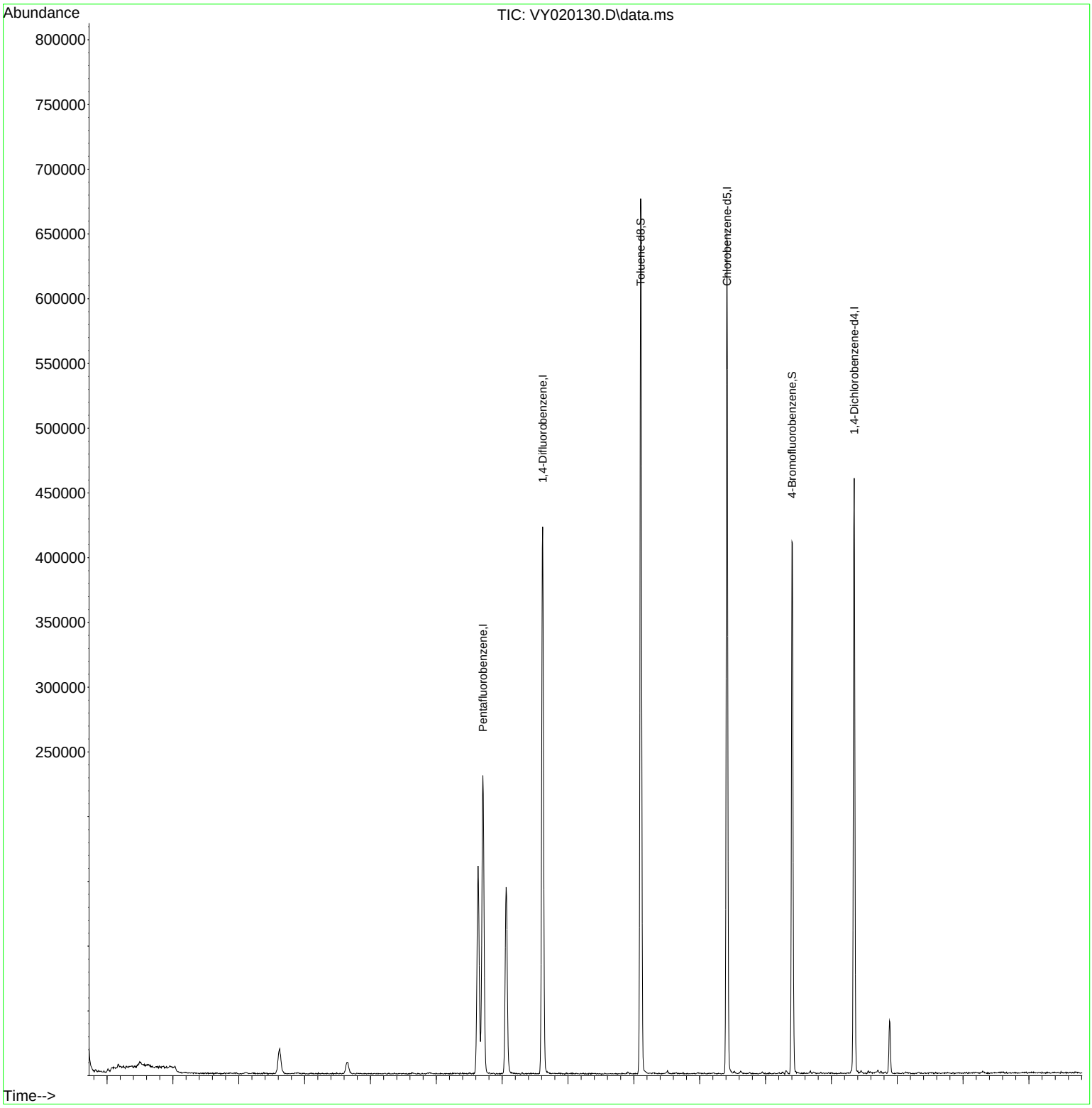
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	159663	50.000	ug/l	# 0.00
34) 1,4-Difluorobenzene	8.616	114	335103	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	302177	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	103950	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	113327	56.871	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 113.740%			
35) Dibromofluoromethane	7.634	113	109596	51.440	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 102.880%			
50) Toluene-d8	10.103	98	421703	49.725	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 99.460%			
62) 4-Bromofluorobenzene	12.401	95	121935	44.265	ug/l	0.00
Spiked Amount 50.000	Range 29 - 146		Recovery = 88.540%			
Target Compounds						Qvalue
20) Methylene Chloride	4.616	84	13159	6.321	ug/l #	73

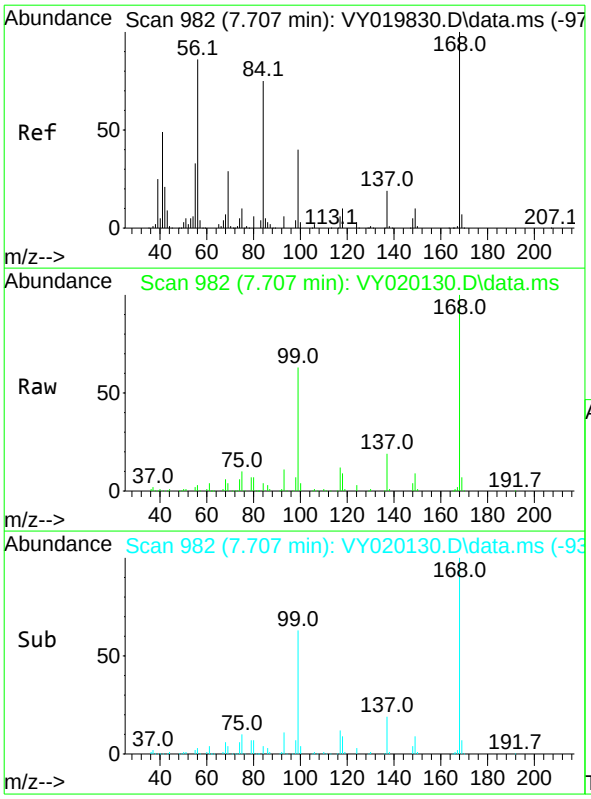
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY110124\
Data File : VY020130.D
Acq On : 01 Nov 2024 19:27
Operator : SY/MD
Sample : P4663-05
Misc : 7.16g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 23 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
RES-BUILDING-PAD-NO-3

Quant Time: Nov 04 00:52:28 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103024S.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 15:23:13 2024
Response via : Initial Calibration



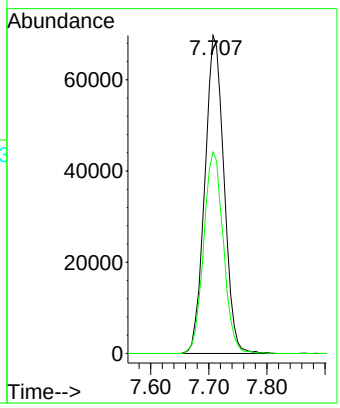


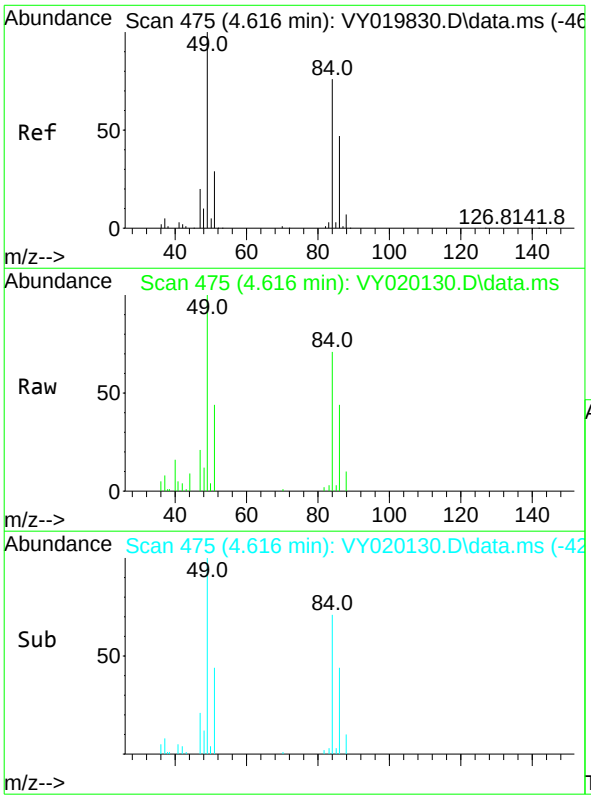
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 98
Delta R.T. 0.000 min
Lab File: VY020130.D
Acq: 01 Nov 2024 19:27

Instrument :
MSVOA_Y
ClientSampleId :
RES-BUILDING-PAD-NO-3

Tgt Ion:168 Resp: 159663

Ion	Ratio	Lower	Upper
168	100		
99	63.3	39.1	58.7#

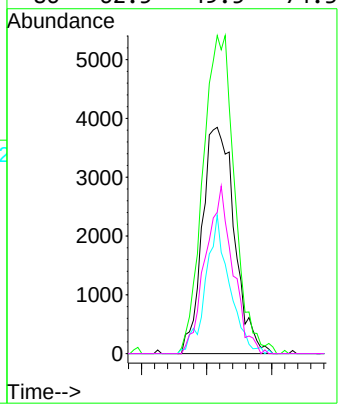


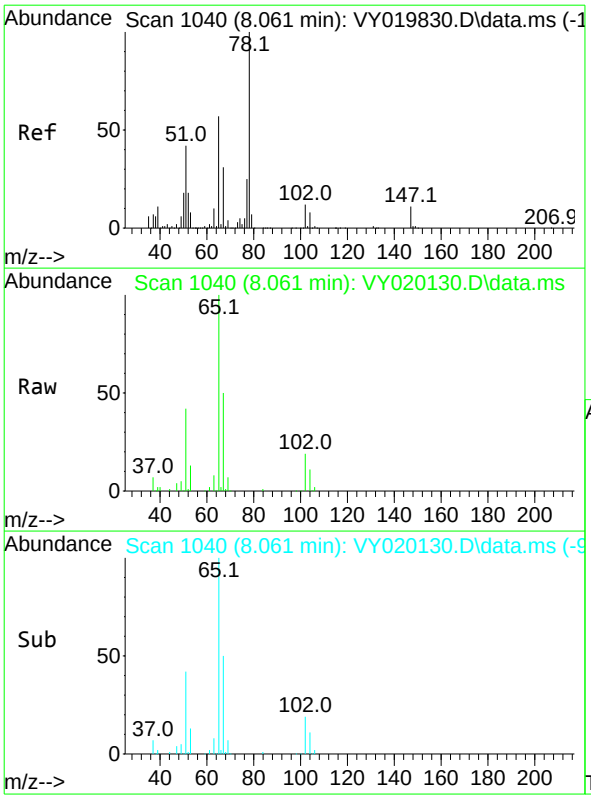


#20
Methylene Chloride
Concen: 6.321 ug/l
RT: 4.616 min Scan# 475
Delta R.T. 0.000 min
Lab File: VY020130.D
Acq: 01 Nov 2024 19:27

Tgt Ion: 84 Resp: 13159

Ion	Ratio	Lower	Upper
84	100		
49	140.6	84.4	126.6#
51	61.3	26.0	39.0#
86	62.5	49.5	74.3



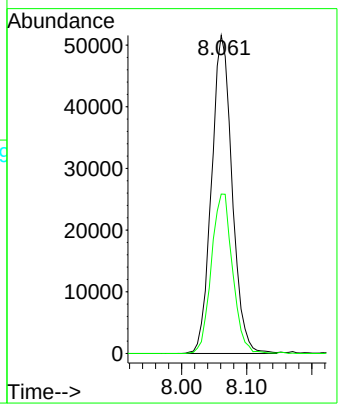


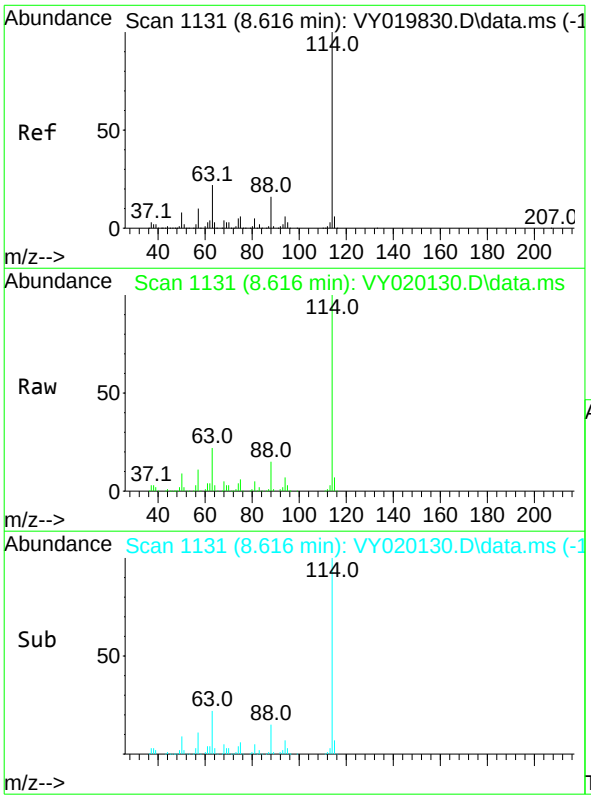
#33
1,2-Dichloroethane-d4
Concen: 56.871 ug/l
RT: 8.061 min Scan# 10
Delta R.T. 0.000 min
Lab File: VY020130.D
Acq: 01 Nov 2024 19:27

Instrument :
MSVOA_Y
ClientSampleId :
RES-BUILDING-PAD-NO-3

Tgt Ion: 65 Resp: 113327

Ion	Ratio	Lower	Upper
65	100		
67	51.6	0.0	109.6

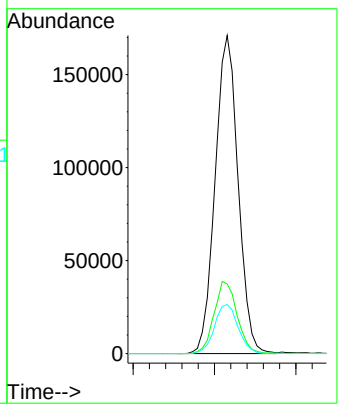




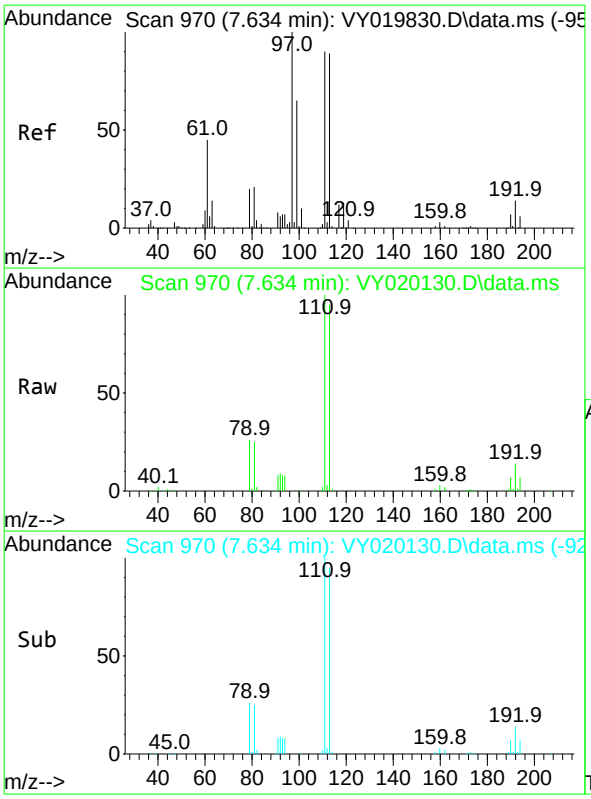
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 1131
Delta R.T. 0.000 min
Lab File: VY020130.D
Acq: 01 Nov 2024 19:27

Tgt Ion:114 Resp: 335103

Ion	Ratio	Lower	Upper
114	100		
63	21.9	0.0	35.0
88	15.4	0.0	27.2



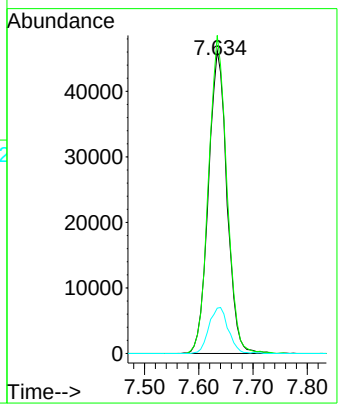
Instrument :
MSVOA_Y
ClientSampleId :
RES-BUILDING-PAD-NO-3

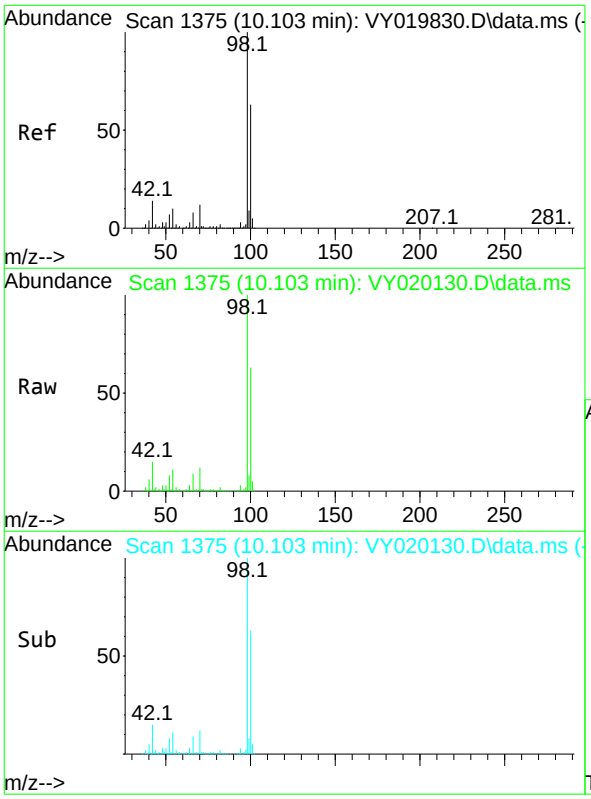


#35
Dibromofluoromethane
Concen: 51.440 ug/l
RT: 7.634 min Scan# 97
Delta R.T. 0.000 min
Lab File: VY020130.D
Acq: 01 Nov 2024 19:27

Tgt Ion:113 Resp: 109596

Ion	Ratio	Lower	Upper
113	100		
111	104.0	82.2	123.4
192	15.8	15.9	23.9#

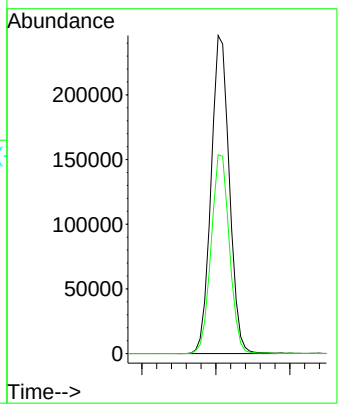




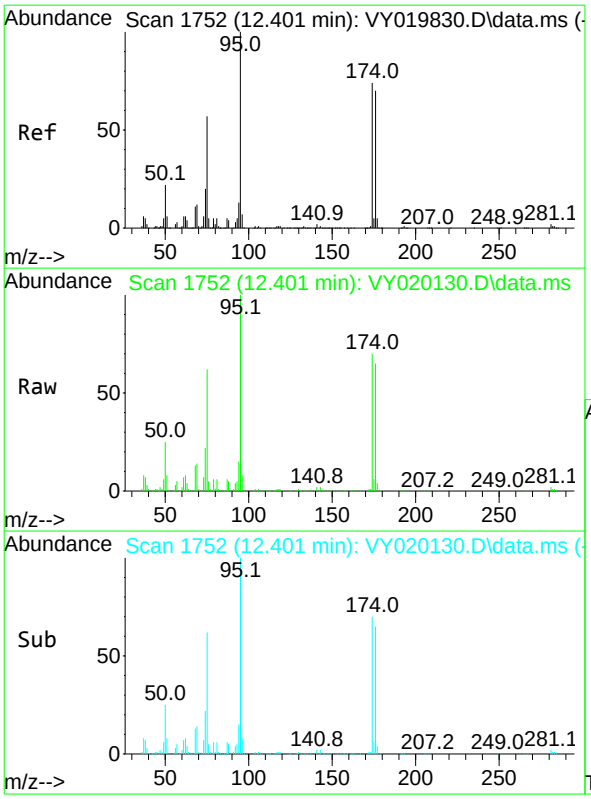
#50
Toluene-d8
Concen: 49.725 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. -0.006 min
Lab File: VY020130.D
Acq: 01 Nov 2024 19:27

Tgt Ion: 98 Resp: 421703

Ion	Ratio	Lower	Upper
98	100		
100	62.7	52.0	78.0



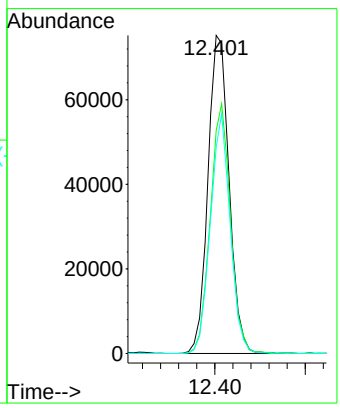
Instrument :
MSVOA_Y
ClientSampleId :
RES-BUILDING-PAD-NO-3

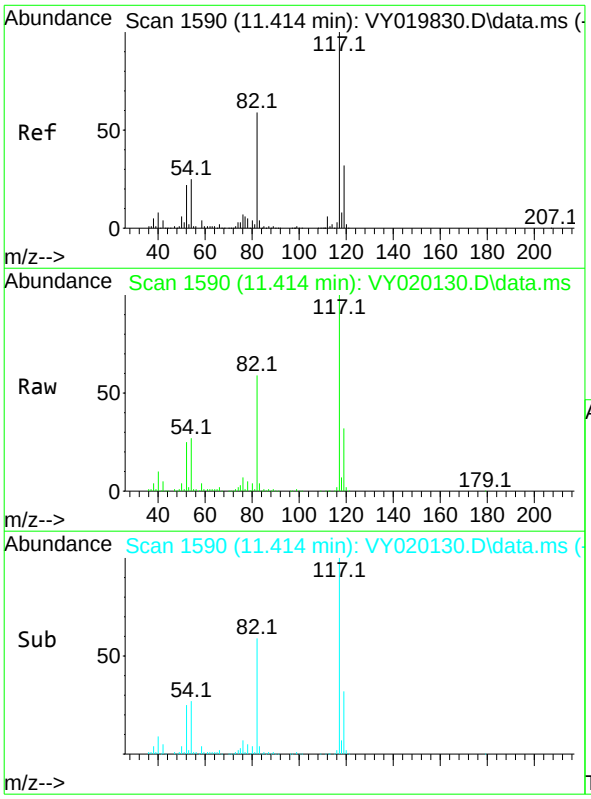


#62
4-Bromofluorobenzene
Concen: 44.265 ug/l
RT: 12.401 min Scan# 17
Delta R.T. -0.006 min
Lab File: VY020130.D
Acq: 01 Nov 2024 19:27

Tgt Ion: 95 Resp: 121935

Ion	Ratio	Lower	Upper
95	100		
174	75.3	0.0	175.6
176	70.4	0.0	171.4

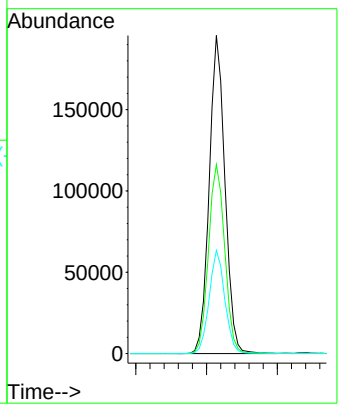


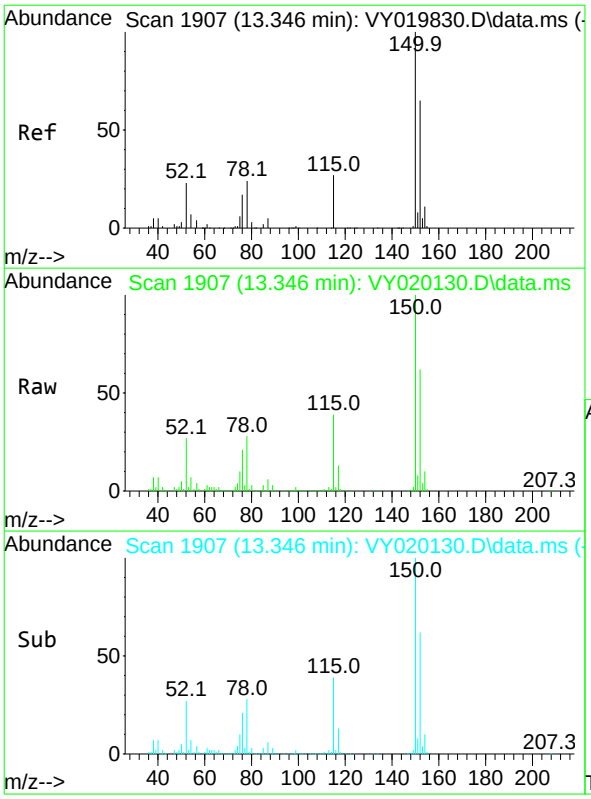


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1590
Delta R.T. -0.006 min
Lab File: VY020130.D
Acq: 01 Nov 2024 19:27

Tgt Ion:117 Resp: 302177

Ion	Ratio	Lower	Upper
117	100		
82	59.4	42.4	63.6
119	32.4	25.9	38.9



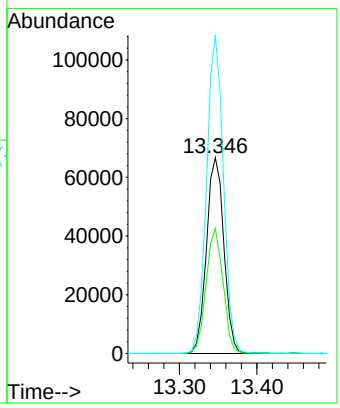


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 19
Delta R.T. 0.000 min
Lab File: VY020130.D
Acq: 01 Nov 2024 19:27

Instrument :
MSVOA_Y
ClientSampleId :
RES-BUILDING-PAD-NO-3

Tgt Ion:152 Resp: 103950

Ion	Ratio	Lower	Upper
152	100		
115	62.4	28.2	84.7
150	157.8	0.0	345.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY110124\
Data File : VY020124.D
Acq On : 01 Nov 2024 17:07
Operator : SY/MD
Sample : P4663-07
Misc : 6.06g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
RES-BUILDING-PAD-NO-2

Quant Time: Nov 04 00:50:02 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103024S.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 15:23:13 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	168827	50.000	ug/l	# 0.00
34) 1,4-Difluorobenzene	8.616	114	353605	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	335031	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	125105	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	126365	59.972	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 119.940%			
35) Dibromofluoromethane	7.634	113	119345	53.085	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 106.160%			
50) Toluene-d8	10.103	98	446124	49.852	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 99.700%			
62) 4-Bromofluorobenzene	12.401	95	141456	48.665	ug/l	0.00
Spiked Amount 50.000	Range 29 - 146		Recovery = 97.340%			

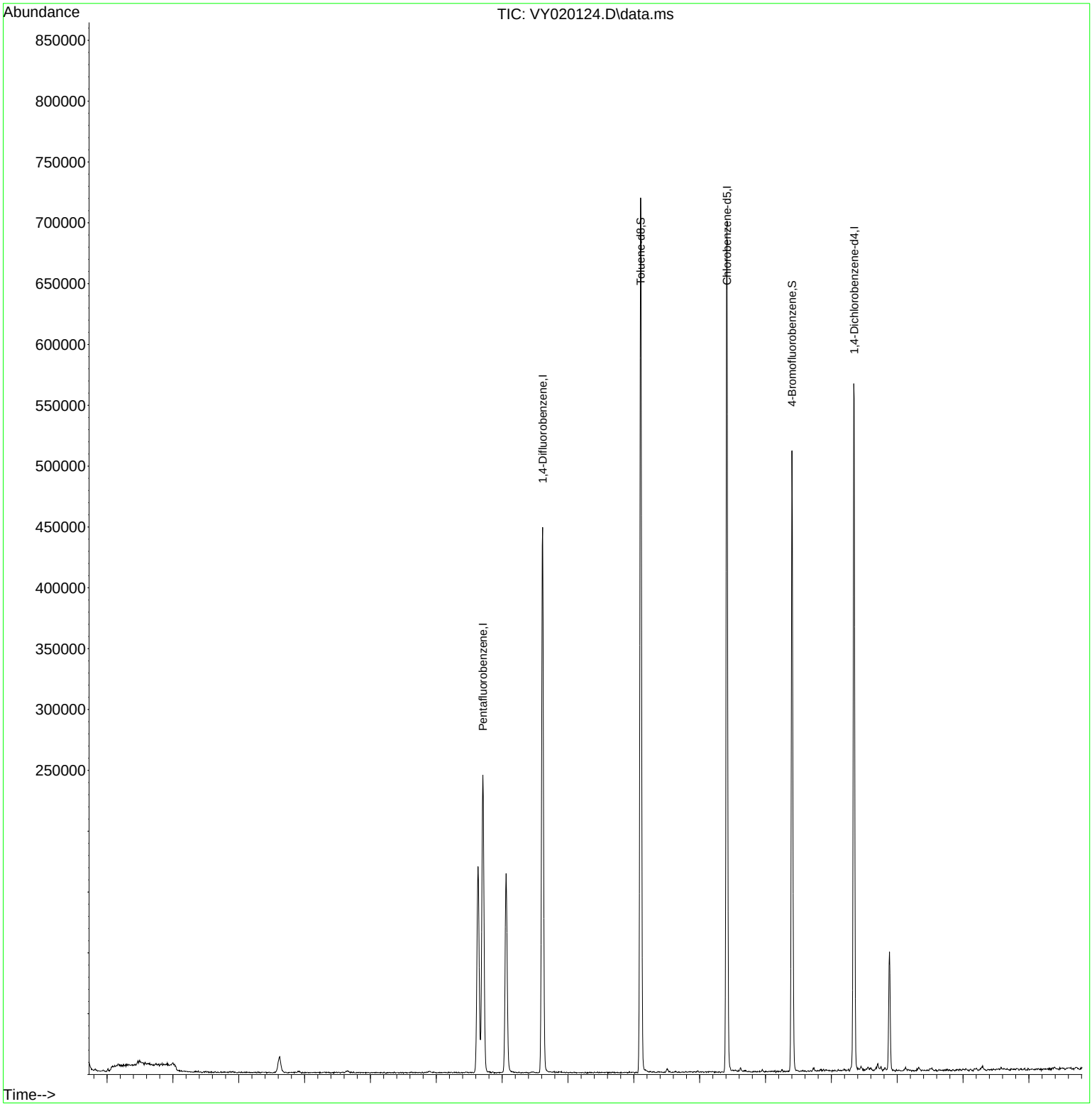
Target Compounds Qvalue

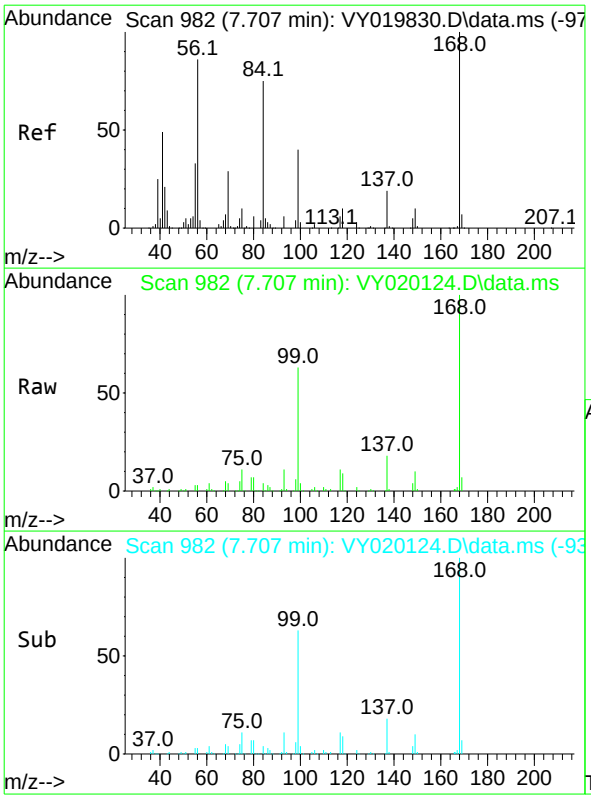
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY110124\
Data File : VY020124.D
Acq On : 01 Nov 2024 17:07
Operator : SY/MD
Sample : P4663-07
Misc : 6.06g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
RES-BUILDING-PAD-NO-2

Quant Time: Nov 04 00:50:02 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103024S.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 15:23:13 2024
Response via : Initial Calibration



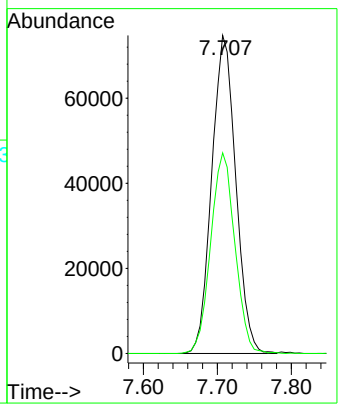


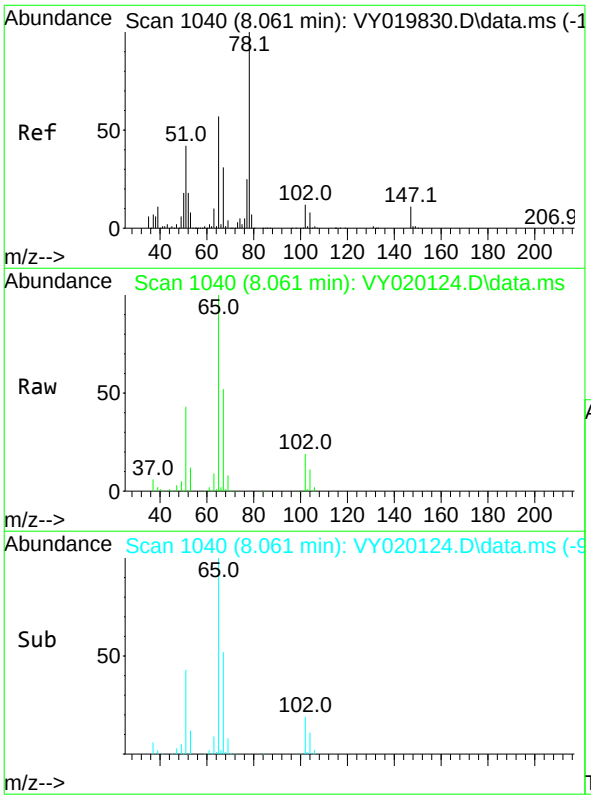
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 98
Delta R.T. 0.000 min
Lab File: VY020124.D
Acq: 01 Nov 2024 17:07

Instrument :
MSVOA_Y
ClientSampleId :
RES-BUILDING-PAD-NO-2

Tgt Ion:168 Resp: 168827

Ion	Ratio	Lower	Upper
168	100		
99	63.1	39.1	58.7#

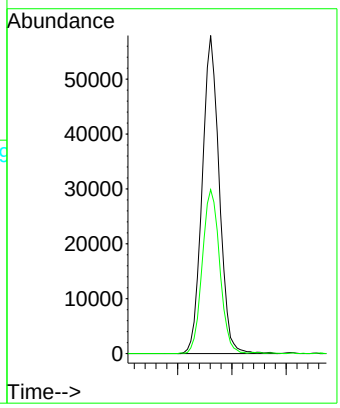




#33
1,2-Dichloroethane-d4
Concen: 59.972 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. 0.000 min
Lab File: VY020124.D
Acq: 01 Nov 2024 17:07

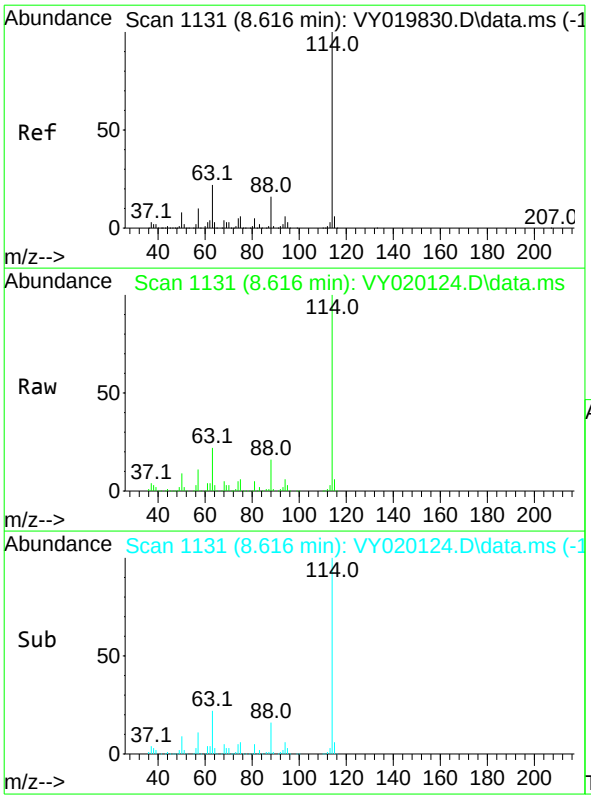
Tgt Ion: 65 Resp: 126365

Ion	Ratio	Lower	Upper
65	100		
67	52.9	0.0	109.6



5

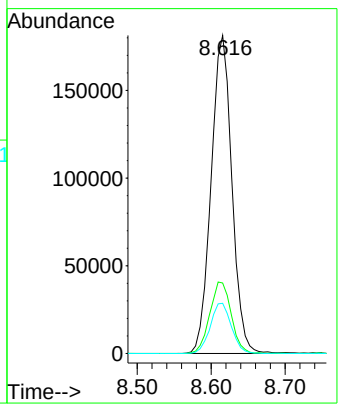
Instrument :
MSVOA_Y
ClientSampleId :
RES-BUILDING-PAD-NO-2

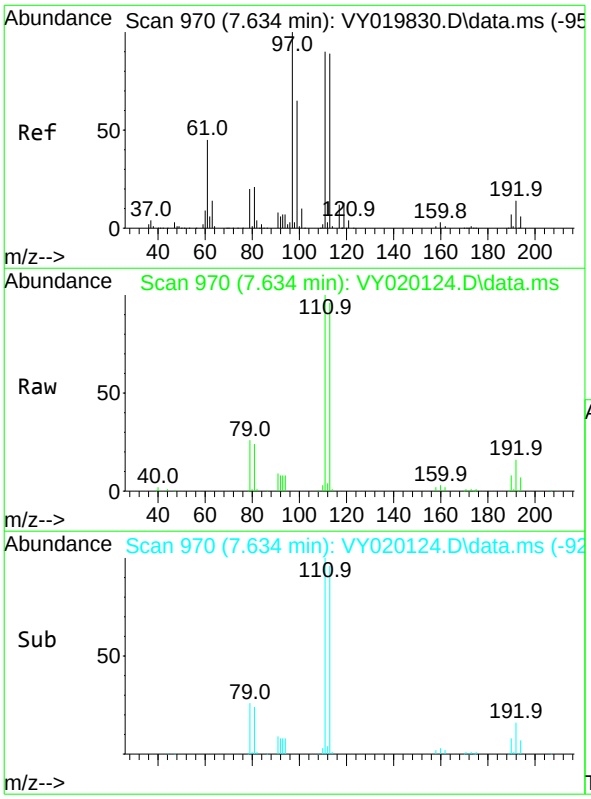


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 11
Delta R.T. 0.000 min
Lab File: VY020124.D
Acq: 01 Nov 2024 17:07

Tgt Ion:114 Resp: 353605

Ion	Ratio	Lower	Upper
114	100		
63	22.2	0.0	35.0
88	15.8	0.0	27.2

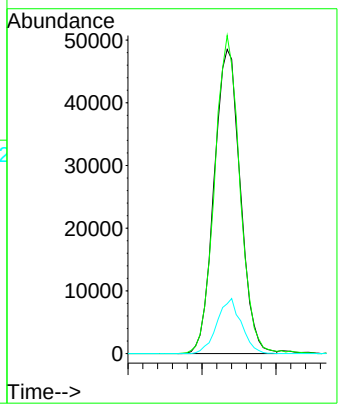


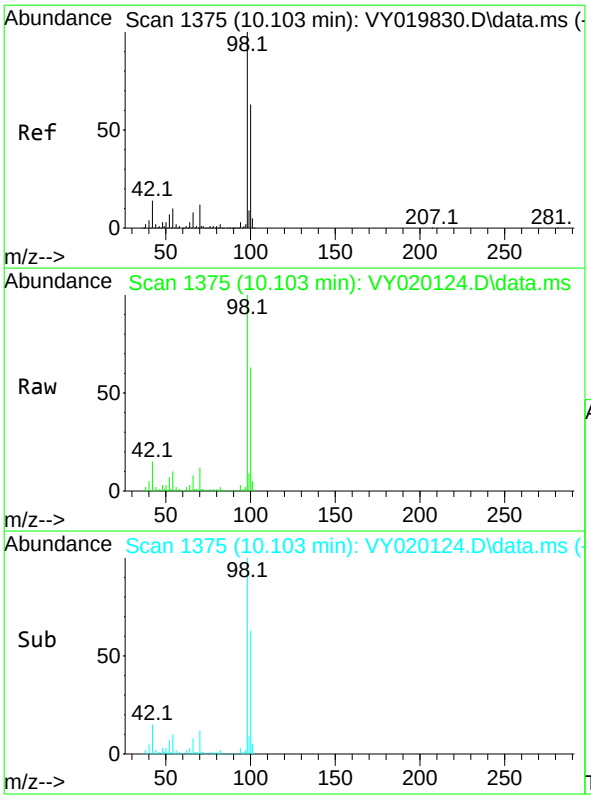


#35
Dibromofluoromethane
Concen: 53.085 ug/l
RT: 7.634 min Scan# 970
Delta R.T. 0.000 min
Lab File: VY020124.D
Acq: 01 Nov 2024 17:07

Tgt Ion:113 Resp: 119345

Ion	Ratio	Lower	Upper
113	100		
111	101.1	82.2	123.4
192	16.8	15.9	23.9



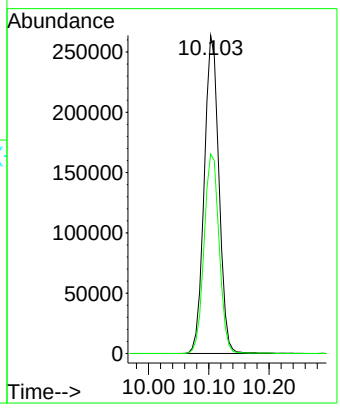


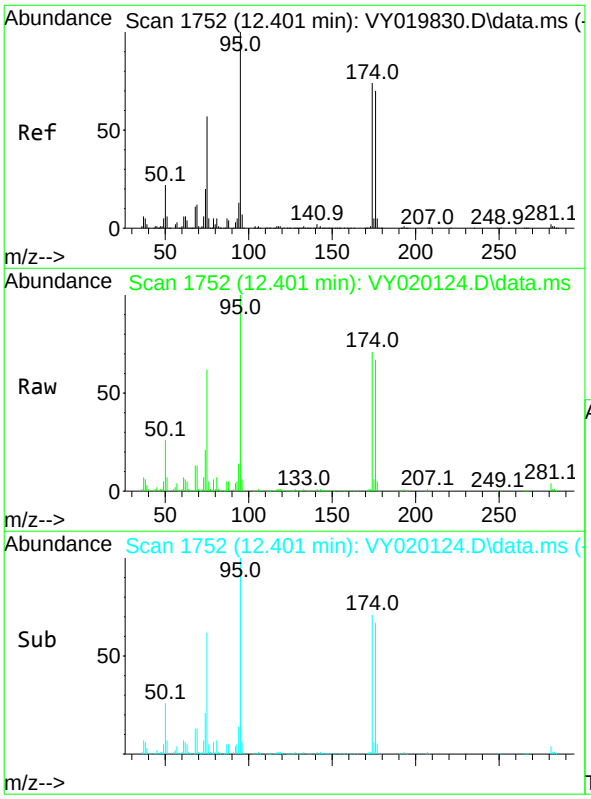
#50
Toluene-d8
Concen: 49.852 ug/l
RT: 10.103 min Scan# 13
Delta R.T. -0.006 min
Lab File: VY020124.D
Acq: 01 Nov 2024 17:07

Instrument :
MSVOA_Y
ClientSampleId :
RES-BUILDING-PAD-NO-2

Tgt Ion: 98 Resp: 446124

Ion	Ratio	Lower	Upper
98	100		
100	64.4	52.0	78.0

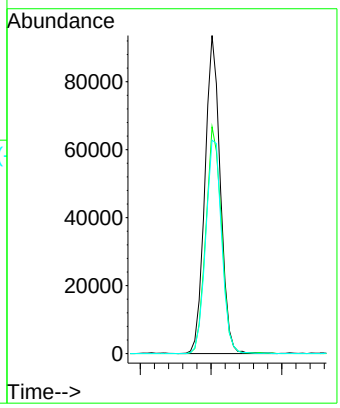


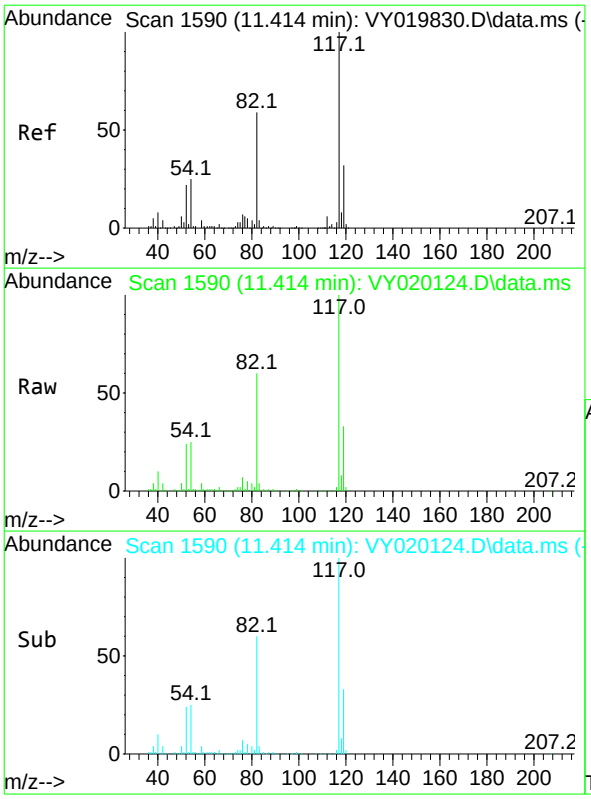


#62
4-Bromofluorobenzene
Concen: 48.665 ug/l
RT: 12.401 min Scan# 1752
Delta R.T. -0.006 min
Lab File: VY020124.D
Acq: 01 Nov 2024 17:07

Tgt Ion: 95 Resp: 141456

Ion	Ratio	Lower	Upper
95	100		
174	72.3	0.0	175.6
176	69.7	0.0	171.4



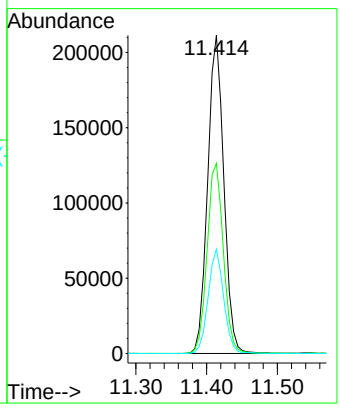


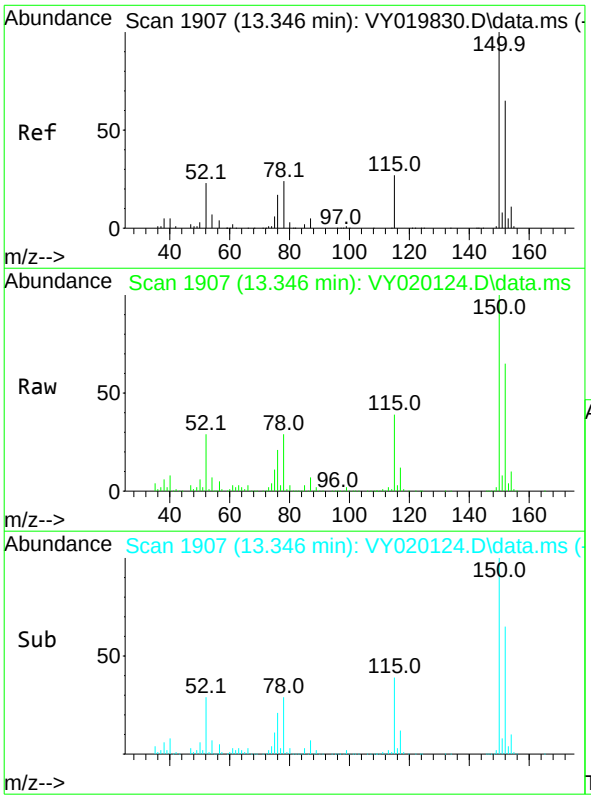
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 15
Delta R.T. -0.006 min
Lab File: VY020124.D
Acq: 01 Nov 2024 17:07

Instrument :
MSVOA_Y
ClientSampleId :
RES-BUILDING-PAD-NO-2

Tgt Ion:117 Resp: 335031

Ion	Ratio	Lower	Upper
117	100		
82	59.8	42.4	63.6
119	32.8	25.9	38.9

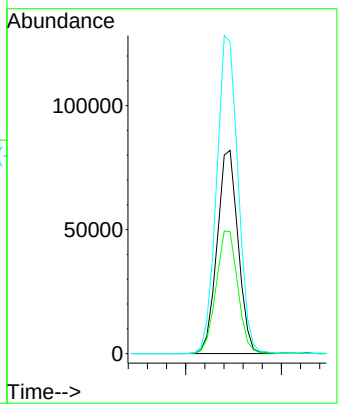




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VY020124.D
Acq: 01 Nov 2024 17:07

Tgt Ion:152 Resp: 125105

Ion	Ratio	Lower	Upper
152	100		
115	62.1	28.2	84.7
150	159.4	0.0	345.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY110124\
Data File : VY020110.D
Acq On : 01 Nov 2024 09:42
Operator : SY/MD
Sample : VY1101SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY1101SBL01

Quant Time: Nov 01 16:02:12 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103024S.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 15:23:13 2024
Response via : Initial Calibration

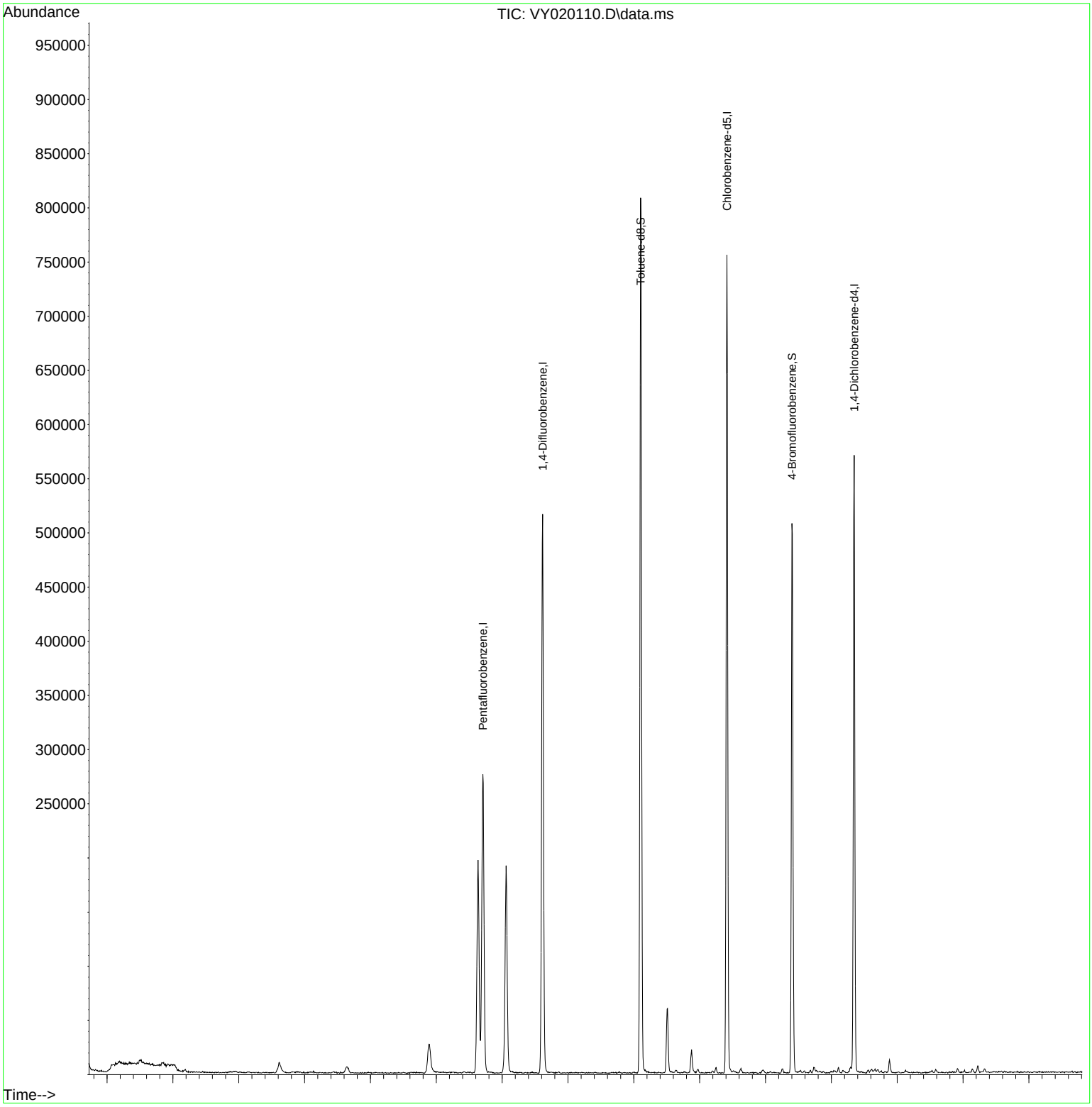
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	193272	50.000	ug/l	# 0.00
34) 1,4-Difluorobenzene	8.616	114	403931	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	365454	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	125829	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	138556	57.441	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 114.880%			
35) Dibromofluoromethane	7.634	113	132476	51.584	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 103.160%			
50) Toluene-d8	10.103	98	500171	48.928	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 97.860%			
62) 4-Bromofluorobenzene	12.402	95	147112	44.305	ug/l	0.00
Spiked Amount 50.000	Range 29 - 146		Recovery = 88.620%			
Target Compounds						Qvalue

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

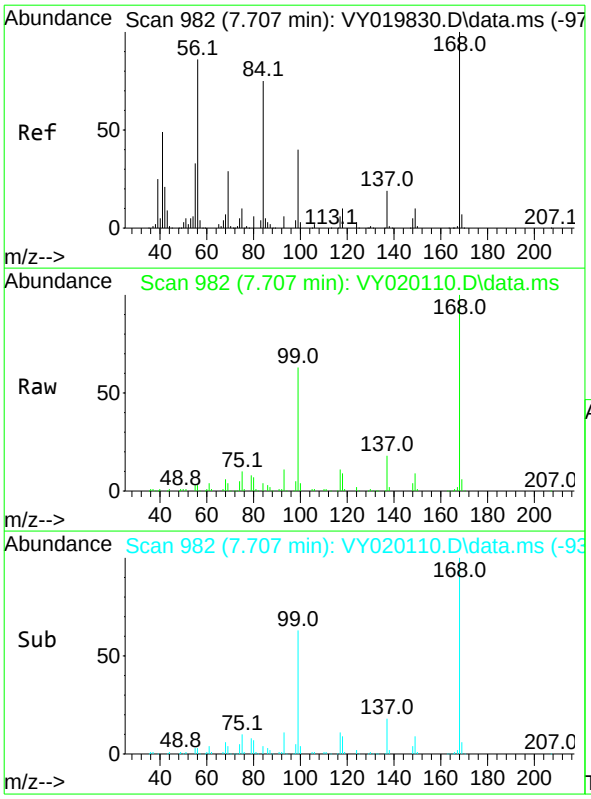
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY110124\
Data File : VY020110.D
Acq On : 01 Nov 2024 09:42
Operator : SY/MD
Sample : VY1101SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY1101SBL01

Quant Time: Nov 01 16:02:12 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103024S.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 15:23:13 2024
Response via : Initial Calibration



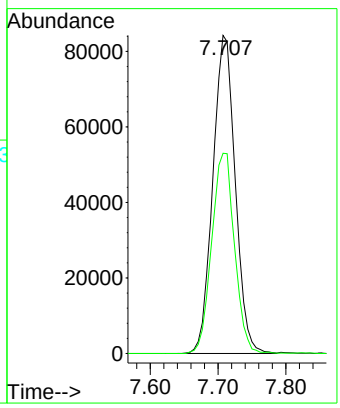
Instrument :
MSVOA_Y
ClientSampleId :
VY1101SBL01

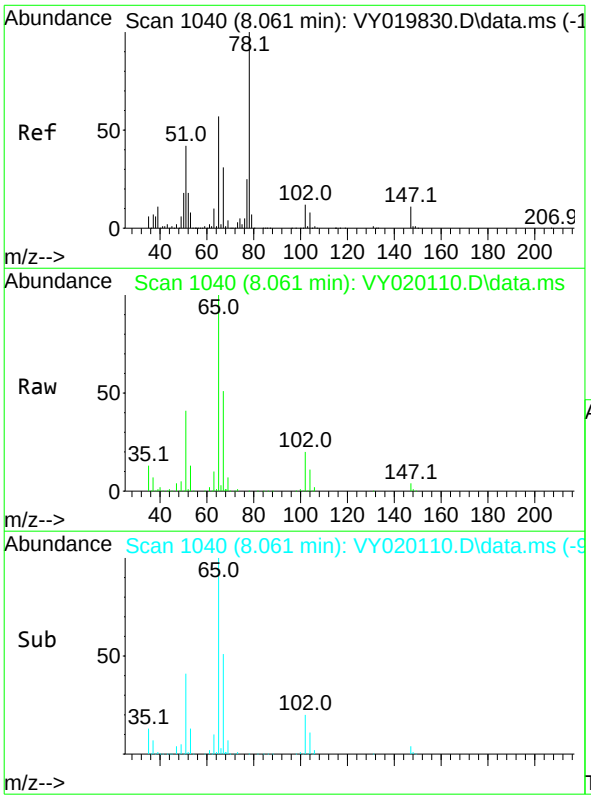


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 98
Delta R.T. 0.000 min
Lab File: VY020110.D
Acq: 01 Nov 2024 09:42

Tgt Ion:168 Resp: 193272

Ion	Ratio	Lower	Upper
168	100		
99	63.0	39.1	58.7#

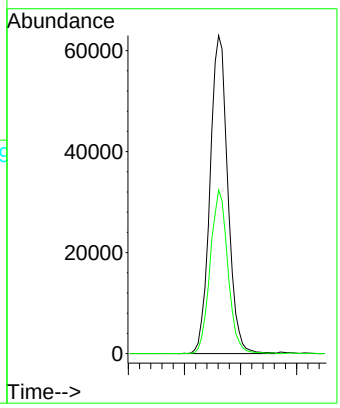


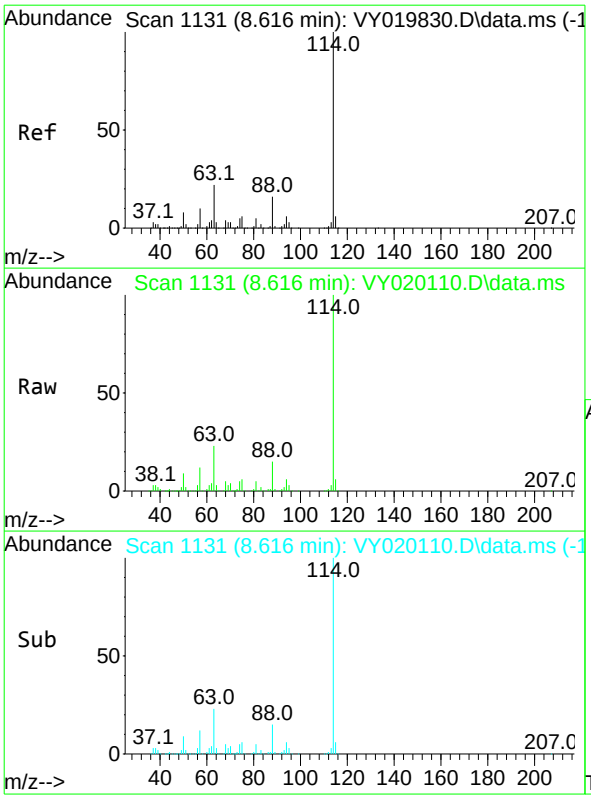


#33
1,2-Dichloroethane-d4
Concen: 57.441 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. 0.000 min
Lab File: VY020110.D
Acq: 01 Nov 2024 09:42

Tgt Ion: 65 Resp: 138556

Ion	Ratio	Lower	Upper
65	100		
67	51.3	0.0	109.6



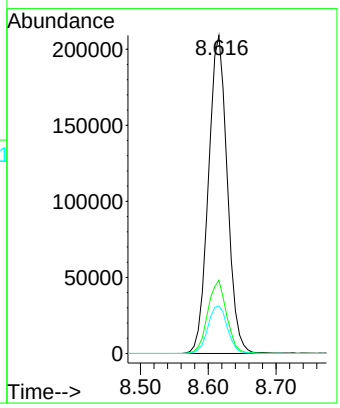


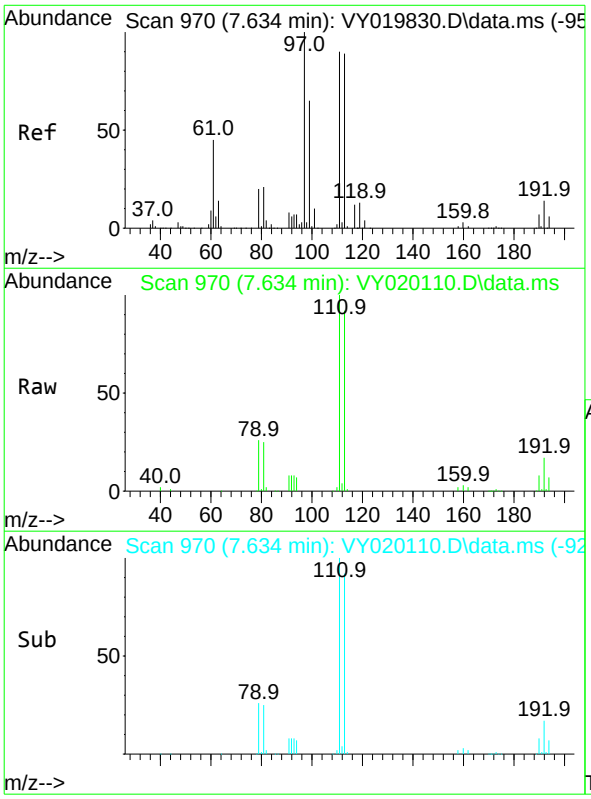
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 11
Delta R.T. 0.000 min
Lab File: VY020110.D
Acq: 01 Nov 2024 09:42

Instrument :
MSVOA_Y
ClientSampleId :
VY1101SBL01

Tgt Ion:114 Resp: 403931

Ion	Ratio	Lower	Upper
114	100		
63	23.0	0.0	35.0
88	15.0	0.0	27.2

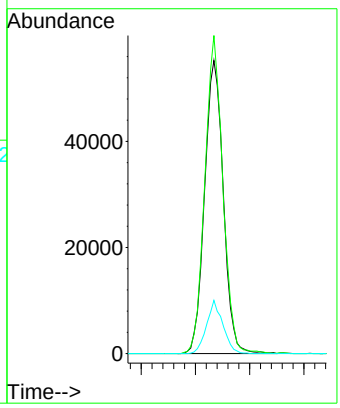


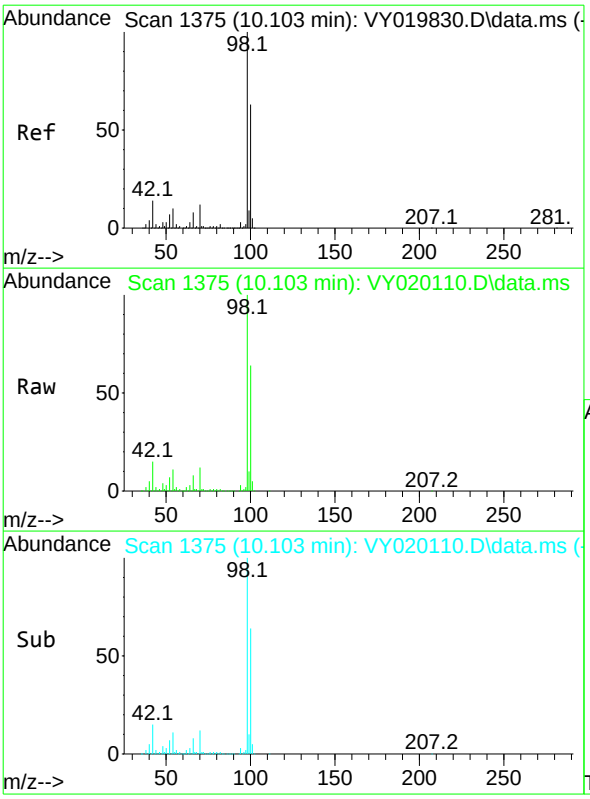


#35
Dibromofluoromethane
Concen: 51.584 ug/l
RT: 7.634 min Scan# 970
Delta R.T. 0.000 min
Lab File: VY020110.D
Acq: 01 Nov 2024 09:42

Tgt Ion:113 Resp: 132476

Ion	Ratio	Lower	Upper
113	100		
111	104.3	82.2	123.4
192	15.9	15.9	23.9#



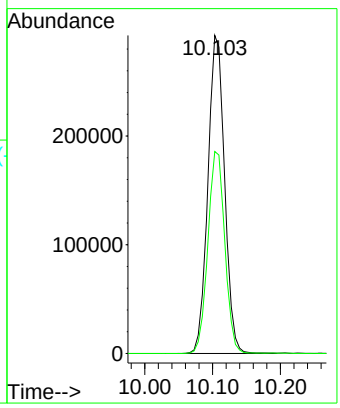


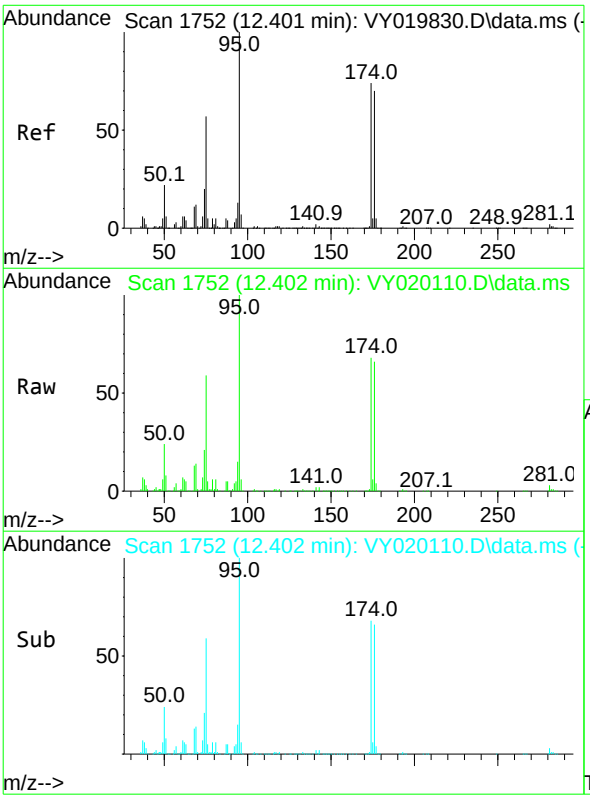
#50
Toluene-d8
Concen: 48.928 ug/l
RT: 10.103 min Scan# 13
Delta R.T. -0.006 min
Lab File: VY020110.D
Acq: 01 Nov 2024 09:42

Instrument :
MSVOA_Y
ClientSampleId :
VY1101SBL01

Tgt Ion: 98 Resp: 500171

Ion	Ratio	Lower	Upper
98	100		
100	64.4	52.0	78.0

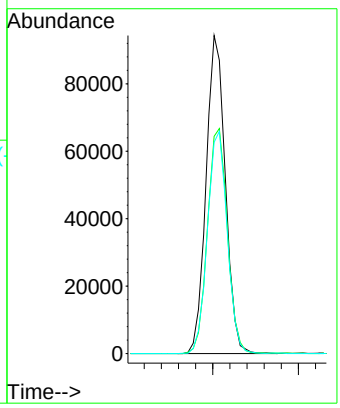


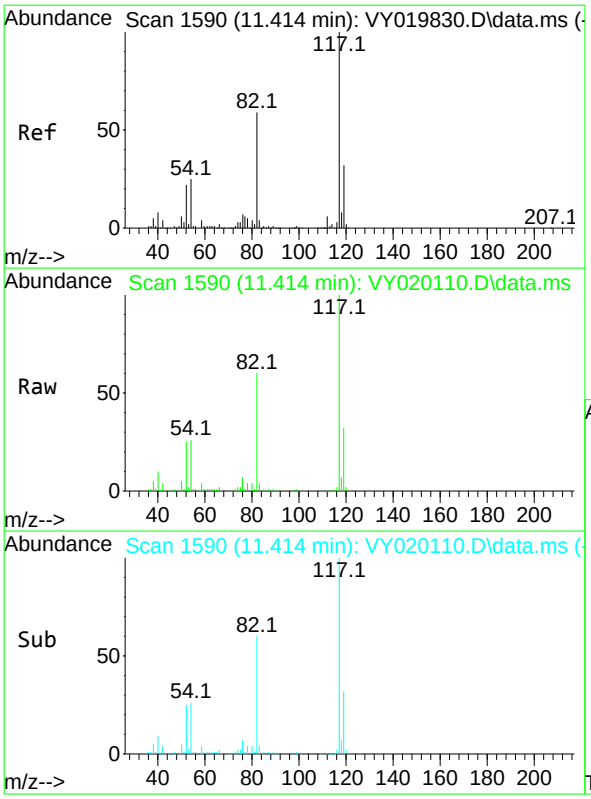


#62
4-Bromofluorobenzene
Concen: 44.305 ug/l
RT: 12.402 min Scan# 1752
Delta R.T. -0.006 min
Lab File: VY020110.D
Acq: 01 Nov 2024 09:42

Tgt Ion: 95 Resp: 147112

Ion	Ratio	Lower	Upper
95	100		
174	73.2	0.0	175.6
176	71.5	0.0	171.4



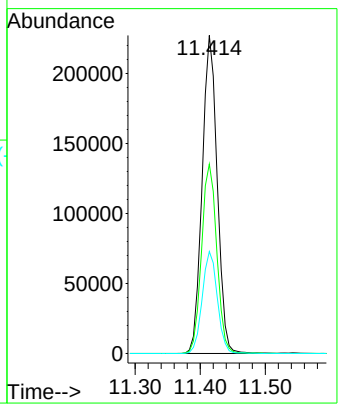


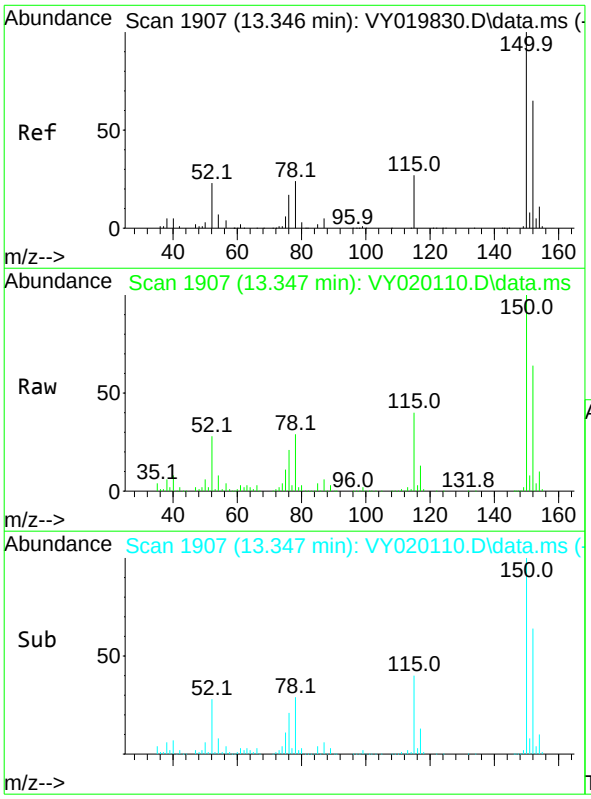
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 15
Delta R.T. -0.006 min
Lab File: VY020110.D
Acq: 01 Nov 2024 09:42

Instrument :
MSVOA_Y
ClientSampleId :
VY1101SBL01

Tgt Ion:117 Resp: 365454

Ion	Ratio	Lower	Upper
117	100		
82	59.5	42.4	63.6
119	32.1	25.9	38.9

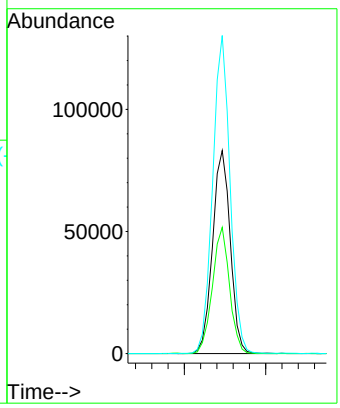




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.347 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VY020110.D
Acq: 01 Nov 2024 09:42

Tgt Ion:152 Resp: 125829

Ion	Ratio	Lower	Upper
152	100		
115	60.0	28.2	84.7
150	153.7	0.0	345.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY110124\
Data File : VY020111.D
Acq On : 01 Nov 2024 10:33
Operator : SY/MD
Sample : VY1101SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 01 16:02:19 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103024S.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 15:23:13 2024
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY1101SBS01

Manual Integrations APPROVED

Reviewed By :Romaben Patel 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	7.707	168	224649	50.000	ug/l	#	0.00
34) 1,4-Difluorobenzene	8.616	114	413315	50.000	ug/l		0.00
63) Chlorobenzene-d5	11.414	117	362345	50.000	ug/l		0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	169895	50.000	ug/l		0.00
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4	8.061	65	166614	59.425	ug/l		0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 118.860%				
35) Dibromofluoromethane	7.634	113	148968	56.688	ug/l		0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 113.380%				
50) Toluene-d8	10.109	98	604944	57.834	ug/l		0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 115.660%				
62) 4-Bromofluorobenzene	12.402	95	190261	55.999	ug/l		0.00
Spiked Amount 50.000	Range 29 - 146		Recovery = 112.000%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.867	85	43553	20.944	ug/l		97
3) Chloromethane	2.068	50	76113	22.097	ug/l		97
4) Vinyl Chloride	2.202	62	79270	21.437	ug/l		99
5) Bromomethane	2.592	94	52391	21.340	ug/l		96
6) Chloroethane	2.733	64	53086	22.245	ug/l		97
7) Trichlorofluoromethane	3.056	101	100070	22.152	ug/l		99
8) Diethyl Ether	3.458	74	27813	22.075	ug/l		72
9) 1,1,2-Trichlorotrifluo...	3.818	101	53143	20.974	ug/l		90
10) Methyl Iodide	4.007	142	51383	21.005	ug/l	#	90
11) Tert butyl alcohol	4.860	59	20620	102.243	ug/l	#	91
12) 1,1-Dichloroethene	3.787	96	51636	21.300	ug/l		83
13) Acrolein	3.653	56	28586	113.863	ug/l		99
14) Allyl chloride	4.385	41	96060	21.963	ug/l	#	90
15) Acrylonitrile	5.061	53	61498	107.229	ug/l		94
16) Acetone	3.867	43	67421	103.402	ug/l	#	84
17) Carbon Disulfide	4.110	76	169096	20.960	ug/l		100
18) Methyl Acetate	4.379	43	34068	22.269	ug/l	#	89
19) Methyl tert-butyl Ether	5.110	73	134715	22.088	ug/l		97
20) Methylene Chloride	4.616	84	60861	20.778	ug/l	#	83
21) trans-1,2-Dichloroethene	5.110	96	57853	21.160	ug/l		87
22) Diisopropyl ether	6.019	45	206989	22.805	ug/l	#	88
23) Vinyl Acetate	5.958	43	549887	107.653	ug/l	#	91
24) 1,1-Dichloroethane	5.915	63	117253	22.310	ug/l		96
25) 2-Butanone	6.890	43	95334	107.862	ug/l	#	81
26) 2,2-Dichloropropane	6.878	77	92994	21.266	ug/l		93
27) cis-1,2-Dichloroethene	6.890	96	68959	21.942	ug/l		83
28) Bromochloromethane	7.244	49	53021	21.545	ug/l	#	68
29) Tetrahydrofuran	7.262	42	55178	108.176	ug/l	#	82
30) Chloroform	7.421	83	114090	21.876	ug/l		100
31) Cyclohexane	7.701	56	104094	20.459	ug/l		88
32) 1,1,1-Trichloroethane	7.616	97	98057	21.535	ug/l	#	94
36) 1,1-Dichloropropene	7.835	75	84599	20.840	ug/l		94
37) Ethyl Acetate	6.982	43	37423	19.336	ug/l		94
38) Carbon Tetrachloride	7.817	117	82731	20.267	ug/l		99
39) Methylcyclohexane	9.110	83	102064	19.810	ug/l	#	88
40) Benzene	8.079	78	248919	21.008	ug/l		100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY110124\
Data File : VY020111.D
Acq On : 01 Nov 2024 10:33
Operator : SY/MD
Sample : VY1101SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 01 16:02:19 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103024S.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 15:23:13 2024
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY1101SBS01

Manual Integrations APPROVED

Reviewed By :Romaben Patel 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.220	41	17316	17.861	ug/l		94
42) 1,2-Dichloroethane	8.152	62	69601	21.222	ug/l		95
43) Isopropyl Acetate	8.195	43	79732	21.423	ug/l	#	75
44) Trichloroethene	8.866	130	56824	20.692	ug/l		85
45) 1,2-Dichloropropane	9.140	63	59850	21.112	ug/l		98
46) Dibromomethane	9.231	93	31787	20.694	ug/l		91
47) Bromodichloromethane	9.420	83	87303	21.696	ug/l		99
48) Methyl methacrylate	9.219	41	35245	20.445	ug/l	#	83
49) 1,4-Dioxane	9.231	88	7228	457.054	ug/l	#	92
51) 4-Methyl-2-Pentanone	10.000	43	202015	105.344	ug/l		88
52) Toluene	10.170	92	153958	21.079	ug/l		100
53) t-1,3-Dichloropropene	10.390	75	73069	20.563	ug/l		98
54) cis-1,3-Dichloropropene	9.853	75	90424	21.320	ug/l	#	82
55) 1,1,2-Trichloroethane	10.573	97	39841	20.861	ug/l		93
56) Ethyl methacrylate	10.439	69	58231	21.255	ug/l	#	72
57) 1,3-Dichloropropane	10.713	76	74262	21.233	ug/l		100
58) 2-Chloroethyl Vinyl ether	9.713	63	137917	102.079	ug/l		92
59) 2-Hexanone	10.762	43	144386	105.021	ug/l		85
60) Dibromochloromethane	10.908	129	51480	21.146	ug/l		98
61) 1,2-Dibromoethane	11.012	107	36801	20.740	ug/l		99
64) Tetrachloroethene	10.646	164	49089	20.518	ug/l		87
65) Chlorobenzene	11.438	112	161689	20.942	ug/l		99
66) 1,1,1,2-Tetrachloroethane	11.518	131	51494	20.876	ug/l		99
67) Ethyl Benzene	11.518	91	294374	20.397	ug/l		98
68) m/p-Xylenes	11.627	106	219831	41.632	ug/l		92
69) o-Xylene	11.950	106	100601	20.123	ug/l		90
70) Styrene	11.969	104	172290	20.844	ug/l		95
71) Bromoform	12.133	173	25970	20.522	ug/l	#	98
73) Isopropylbenzene	12.255	105	273660	20.163	ug/l		98
74) N-amyl acetate	12.066	43	67912	20.017	ug/l	#	86
75) 1,1,2,2-Tetrachloroethane	12.505	83	47830	20.151	ug/l		99
76) 1,2,3-Trichloropropane	12.554	75	40589m	25.486	ug/l		
77) Bromobenzene	12.530	156	56489	20.580	ug/l		84
78) n-propylbenzene	12.591	91	343058	20.310	ug/l		97
79) 2-Chlorotoluene	12.676	91	191589	20.434	ug/l		94
80) 1,3,5-Trimethylbenzene	12.737	105	219147	20.112	ug/l		98
81) trans-1,4-Dichloro-2-b...	12.298	75	14816	20.011	ug/l	#	80
82) 4-Chlorotoluene	12.780	91	198314	20.744	ug/l		96
83) tert-Butylbenzene	12.993	119	198114	20.793	ug/l		95
84) 1,2,4-Trimethylbenzene	13.042	105	221252	20.501	ug/l		95
85) sec-Butylbenzene	13.176	105	297388	20.332	ug/l		97
86) p-Isopropyltoluene	13.292	119	236835	20.178	ug/l		95
87) 1,3-Dichlorobenzene	13.286	146	114852	20.597	ug/l		97
88) 1,4-Dichlorobenzene	13.365	146	114724	20.660	ug/l		95
89) n-Butylbenzene	13.615	91	235328	20.000	ug/l		97
90) Hexachloroethane	13.877	117	46384	19.982	ug/l		82
91) 1,2-Dichlorobenzene	13.657	146	100967	20.832	ug/l		97
92) 1,2-Dibromo-3-Chloropr...	14.273	75	6796	18.879	ug/l		77
93) 1,2,4-Trichlorobenzene	14.919	180	50751	19.492	ug/l		96
94) Hexachlorobutadiene	15.023	225	27042	18.993	ug/l		97
95) Naphthalene	15.145	128	90580	18.611	ug/l		99
96) 1,2,3-Trichlorobenzene	15.328	180	41632	18.837	ug/l		98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY110124\
Data File : VY020111.D
Acq On : 01 Nov 2024 10:33
Operator : SY/MD
Sample : VY1101SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 01 16:02:19 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103024S.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 15:23:13 2024
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY1101SBS01

Manual Integrations APPROVED

Reviewed By :Romaben Patel 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024

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

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

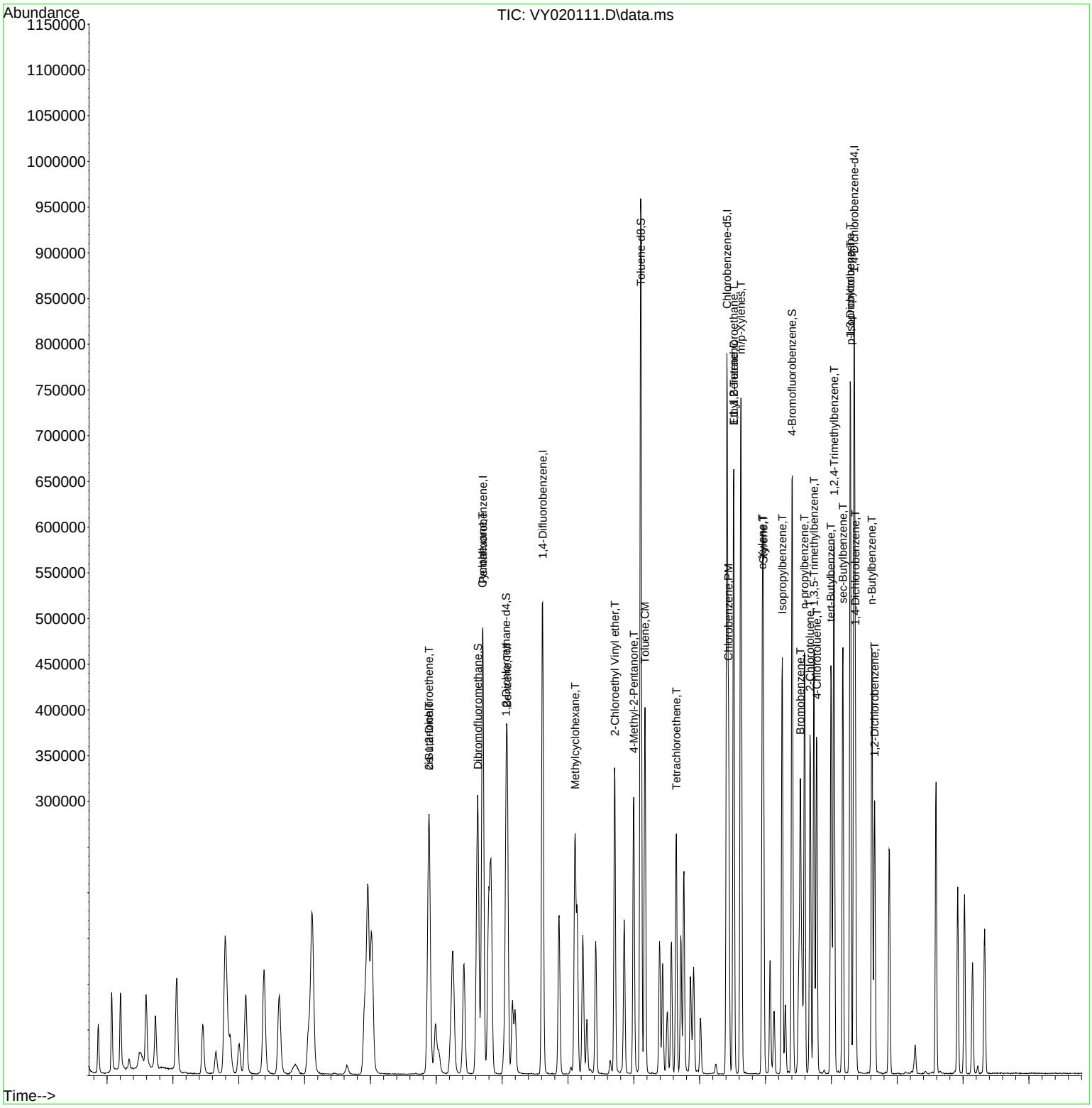
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY110124\
Data File : VY020111.D
Acq On : 01 Nov 2024 10:33
Operator : SY/MD
Sample : VY1101SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 01 16:02:19 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103024S.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 15:23:13 2024
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY1101SBS01

Manual Integrations APPROVED

Reviewed By :Romaben Patel 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY110124\
Data File : VY020112.D
Acq On : 01 Nov 2024 11:12
Operator : SY/MD
Sample : VY1101SBSD01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 01 16:02:34 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103024S.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 15:23:13 2024
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY1101SBSD01

Manual Integrations APPROVED
Reviewed By :Romaben Patel 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	251864	50.000	ug/l	# 0.00
34) 1,4-Difluorobenzene	8.616	114	454799	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	392733	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	182188	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	164194	52.234	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 104.460%			
35) Dibromofluoromethane	7.634	113	149298	51.632	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 103.260%			
50) Toluene-d8	10.103	98	592808	51.504	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 103.000%			
62) 4-Bromofluorobenzene	12.401	95	191535	51.232	ug/l	0.00
Spiked Amount 50.000	Range 29 - 146		Recovery = 102.460%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.867	85	47830	20.515	ug/l	96
3) Chloromethane	2.068	50	85457	22.129	ug/l	98
4) Vinyl Chloride	2.208	62	88435	21.331	ug/l	99
5) Bromomethane	2.592	94	56487	20.522	ug/l	97
6) Chloroethane	2.739	64	56823	21.238	ug/l	98
7) Trichlorofluoromethane	3.062	101	109471	21.615	ug/l	99
8) Diethyl Ether	3.464	74	30708	21.739	ug/l	72
9) 1,1,2-Trichlorotrifluo...	3.812	101	61078	21.501	ug/l	89
10) Methyl Iodide	4.007	142	55452	20.219	ug/l	90
11) Tert butyl alcohol	4.854	59	22527	99.629	ug/l #	80
12) 1,1-Dichloroethene	3.793	96	56492	20.785	ug/l #	75
13) Acrolein	3.653	56	28044	99.634	ug/l	97
14) Allyl chloride	4.385	41	104832	21.378	ug/l #	87
15) Acrylonitrile	5.055	53	70794	110.100	ug/l	96
16) Acetone	3.866	43	77256	105.683	ug/l #	81
17) Carbon Disulfide	4.110	76	188179	20.805	ug/l	98
18) Methyl Acetate	4.385	43	37554	21.895	ug/l #	86
19) Methyl tert-butyl Ether	5.116	73	143362	20.966	ug/l #	89
20) Methylene Chloride	4.616	84	64546	19.655	ug/l #	85
21) trans-1,2-Dichloroethene	5.110	96	64187	20.940	ug/l	87
22) Diisopropyl ether	6.018	45	220719	21.690	ug/l #	87
23) Vinyl Acetate	5.957	43	608830	106.313	ug/l #	89
24) 1,1-Dichloroethane	5.915	63	124177	21.074	ug/l	95
25) 2-Butanone	6.890	43	104678	105.636	ug/l #	81
26) 2,2-Dichloropropane	6.890	77	98522	20.096	ug/l	95
27) cis-1,2-Dichloroethene	6.890	96	73054	20.733	ug/l	80
28) Bromochloromethane	7.244	49	55177	19.998	ug/l #	70
29) Tetrahydrofuran	7.262	42	63063	110.276	ug/l #	81
30) Chloroform	7.421	83	126158	21.576	ug/l	97
31) Cyclohexane	7.701	56	116316	20.390	ug/l	91
32) 1,1,1-Trichloroethane	7.616	97	105811	20.727	ug/l #	91
36) 1,1-Dichloropropene	7.835	75	93074	20.837	ug/l	94
37) Ethyl Acetate	6.982	43	44255	20.780	ug/l	96
38) Carbon Tetrachloride	7.817	117	92914	20.685	ug/l	96
39) Methylcyclohexane	9.109	83	111516	19.670	ug/l #	85
40) Benzene	8.079	78	273192	20.954	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY110124\
Data File : VY020112.D
Acq On : 01 Nov 2024 11:12
Operator : SY/MD
Sample : VY1101SBSD01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 01 16:02:34 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103024S.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 15:23:13 2024
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY1101SBSD01

Manual Integrations APPROVED

Reviewed By :Romaben Patel 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
41) Methacrylonitrile	7.226	41	25489m	23.893 ug/l		
42) 1,2-Dichloroethane	8.158	62	75857	21.019 ug/l		95
43) Isopropyl Acetate	8.195	43	84516	20.638 ug/l	#	75
44) Trichloroethene	8.866	130	61488	20.348 ug/l		89
45) 1,2-Dichloropropane	9.140	63	65053	20.855 ug/l		98
46) Dibromomethane	9.231	93	34756	20.563 ug/l		89
47) Bromodichloromethane	9.420	83	93390	21.091 ug/l		95
48) Methyl methacrylate	9.219	41	40172	21.178 ug/l	#	80
49) 1,4-Dioxane	9.225	88	7810	448.810 ug/l	#	95
51) 4-Methyl-2-Pentanone	9.999	43	223752	106.036 ug/l		90
52) Toluene	10.170	92	167875	20.888 ug/l		100
53) t-1,3-Dichloropropene	10.396	75	78150	19.987 ug/l		97
54) cis-1,3-Dichloropropene	9.853	75	95813	20.530 ug/l	#	81
55) 1,1,2-Trichloroethane	10.573	97	45298	21.555 ug/l		97
56) Ethyl methacrylate	10.438	69	63053	20.916 ug/l	#	71
57) 1,3-Dichloropropane	10.713	76	80250	20.852 ug/l		100
58) 2-Chloroethyl Vinyl ether	9.707	63	146757	98.714 ug/l		92
59) 2-Hexanone	10.762	43	159152	105.202 ug/l		86
60) Dibromochloromethane	10.908	129	56022	20.913 ug/l		99
61) 1,2-Dibromoethane	11.011	107	39474	20.218 ug/l		100
64) Tetrachloroethene	10.646	164	53069	20.466 ug/l		94
65) Chlorobenzene	11.438	112	172657	20.632 ug/l		100
66) 1,1,1,2-Tetrachloroethane	11.511	131	55350	20.703 ug/l		98
67) Ethyl Benzene	11.517	91	324663	20.755 ug/l		97
68) m/p-Xylenes	11.627	106	237210	41.447 ug/l		91
69) o-Xylene	11.956	106	111670	20.609 ug/l		91
70) Styrene	11.969	104	189945	21.201 ug/l		95
71) Bromoform	12.133	173	28568	20.828 ug/l	#	96
73) Isopropylbenzene	12.255	105	303557	20.857 ug/l		97
74) N-amyl acetate	12.066	43	75483	20.748 ug/l	#	87
75) 1,1,2,2-Tetrachloroethane	12.505	83	52145	20.486 ug/l		98
76) 1,2,3-Trichloropropane	12.554	75	37821m	22.146 ug/l		
77) Bromobenzene	12.529	156	62359	21.186 ug/l		84
78) n-propylbenzene	12.597	91	375651	20.739 ug/l		97
79) 2-Chlorotoluene	12.676	91	209016	20.788 ug/l		94
80) 1,3,5-Trimethylbenzene	12.737	105	242364	20.742 ug/l		96
81) trans-1,4-Dichloro-2-b...	12.304	75	15768	19.859 ug/l	#	84
82) 4-Chlorotoluene	12.779	91	217329	21.199 ug/l		93
83) tert-Butylbenzene	12.999	119	217152	21.253 ug/l		96
84) 1,2,4-Trimethylbenzene	13.042	105	239773	20.718 ug/l		96
85) sec-Butylbenzene	13.176	105	322465	20.558 ug/l		98
86) p-Isopropyltoluene	13.292	119	259203	20.593 ug/l		96
87) 1,3-Dichlorobenzene	13.285	146	123042	20.577 ug/l		95
88) 1,4-Dichlorobenzene	13.365	146	124778	20.954 ug/l		95
89) n-Butylbenzene	13.615	91	257363	20.397 ug/l		97
90) Hexachloroethane	13.883	117	50466	20.273 ug/l		84
91) 1,2-Dichlorobenzene	13.657	146	110759	21.310 ug/l		97
92) 1,2-Dibromo-3-Chloropr...	14.273	75	8060	20.880 ug/l		70
93) 1,2,4-Trichlorobenzene	14.919	180	55968	20.045 ug/l		97
94) Hexachlorobutadiene	15.023	225	29929	19.603 ug/l		98
95) Naphthalene	15.145	128	103880	19.903 ug/l		100
96) 1,2,3-Trichlorobenzene	15.328	180	47837	20.184 ug/l		95

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY110124\
Data File : VY020112.D
Acq On : 01 Nov 2024 11:12
Operator : SY/MD
Sample : VY1101SBSD01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 01 16:02:34 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103024S.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 15:23:13 2024
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY1101SBSD01

Manual Integrations APPROVED

Reviewed By :Romaben Patel 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024

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

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

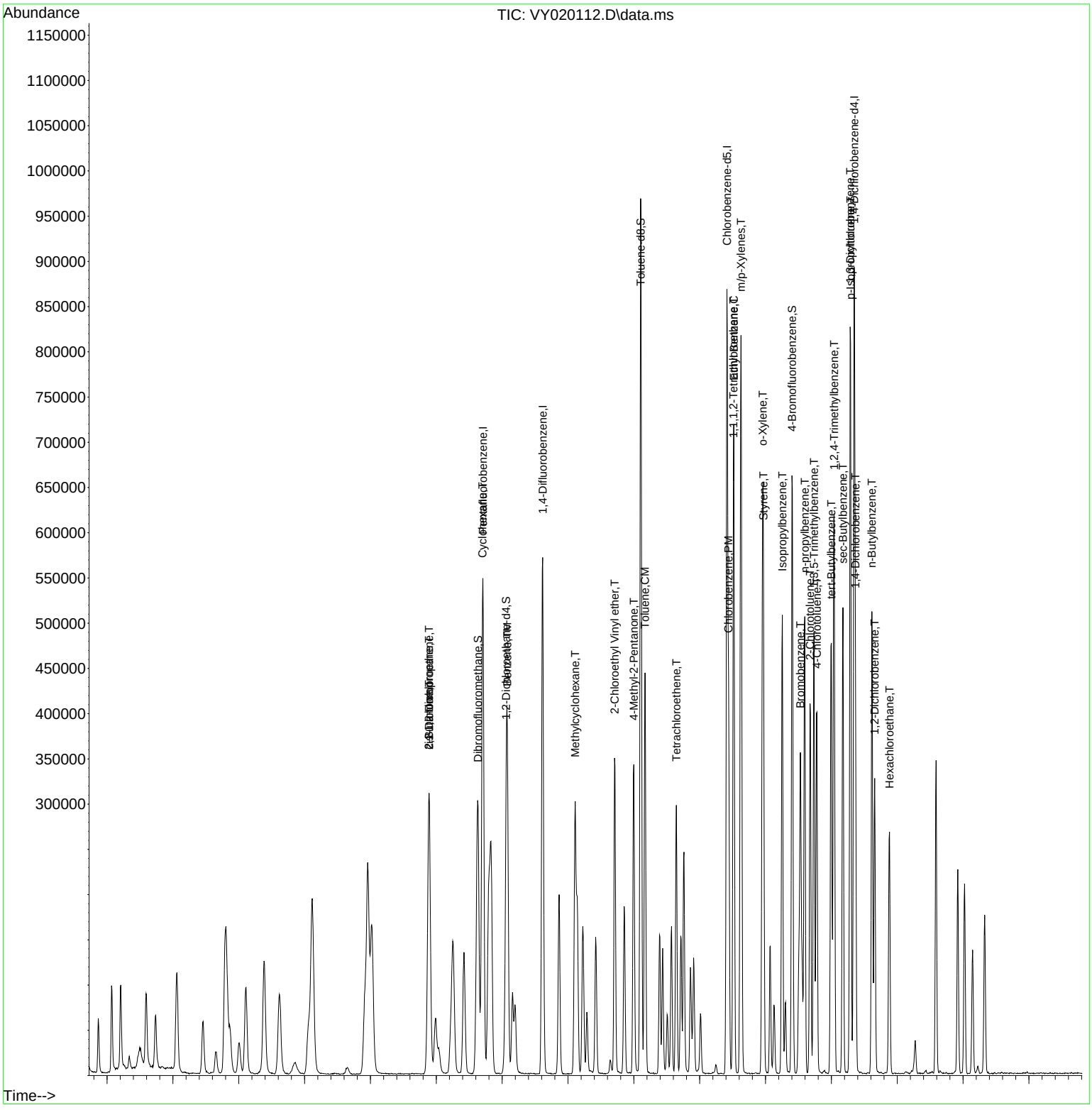
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY110124\
Data File : VY020112.D
Acq On : 01 Nov 2024 11:12
Operator : SY/MD
Sample : VY1101SBSD01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 01 16:02:34 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103024S.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 15:23:13 2024
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY1101SBSD01

Manual Integrations APPROVED

Reviewed By :Romaben Patel 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024



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

Manual Integration Report

Sequence:	VY103024	Instrument	MSVOA_y

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC005	VY020075.D	1,2,3-Trichloropropane	Romaben	11/1/2024 11:41:29 AM	MMDadoda	11/1/2024 5:33:21 PM	Peak Integrated by Software
VSTDICC005	VY020075.D	Ethyl Acetate	Romaben	11/1/2024 11:41:29 AM	MMDadoda	11/1/2024 5:33:21 PM	Peak Integrated by Software
VSTDICC010	VY020076.D	1,2,3-Trichloropropane	Romaben	11/1/2024 11:41:32 AM	MMDadoda	11/1/2024 5:33:22 PM	Peak Integrated by Software
VSTDICC020	VY020077.D	1,2,3-Trichloropropane	Romaben	11/1/2024 11:42:16 AM	MMDadoda	11/1/2024 5:33:23 PM	Peak Integrated by Software
VSTDICCC050	VY020078.D	1,2,3-Trichloropropane	Romaben	11/1/2024 11:42:03 AM	MMDadoda	11/1/2024 5:33:25 PM	Peak Integrated by Software
VSTDICCC050	VY020078.D	Methacrylonitrile	Romaben	11/1/2024 11:42:03 AM	MMDadoda	11/1/2024 5:33:25 PM	Peak Integrated by Software
VSTDICC100	VY020079.D	1,2,3-Trichloropropane	Romaben	11/1/2024 11:42:20 AM	MMDadoda	11/1/2024 5:33:26 PM	Peak Integrated by Software
VSTDICC150	VY020080.D	1,2,3-Trichloropropane	Romaben	11/1/2024 11:42:07 AM	MMDadoda	11/1/2024 5:33:28 PM	Peak Integrated by Software
VSTDICV050	VY020082.D	1,2,3-Trichloropropane	Romaben	11/1/2024 11:42:10 AM	MMDadoda	11/1/2024 5:33:29 PM	Peak Integrated by Software

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Manual Integration Report

Sequence:	VY110124	Instrument	MSVOA_y

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VY020109.D	1,2,3-Trichloropropane	Romaben	11/4/2024 3:49:37 PM	MMDadoda	11/4/2024 5:56:09 PM	Peak Integrated by Software
VY1101SBS01	VY020111.D	1,2,3-Trichloropropane	Romaben	11/4/2024 3:49:33 PM	MMDadoda	11/4/2024 5:56:10 PM	Peak Integrated by Software
VY1101SBSD01	VY020112.D	1,2,3-Trichloropropane	Romaben	11/4/2024 3:49:29 PM	MMDadoda	11/4/2024 5:56:13 PM	Peak Integrated by Software
VY1101SBSD01	VY020112.D	Methacrylonitrile	Romaben	11/4/2024 3:49:29 PM	MMDadoda	11/4/2024 5:56:13 PM	Peak Integrated by Software
VSTDCCC050	VY020131.D	1,2,3-Trichloropropane	Romaben	11/4/2024 3:49:16 PM	MMDadoda	11/4/2024 5:56:22 PM	Peak Integrated by Software

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Fax : 908 789 8922

Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY103024

Review By	Mahesh Dadoda	Review On	11/1/2024 5:33:31 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	11/1/2024 5:33:47 PM		
SubDirectory	VY103024	HP Acquire Method		HP Processing Method	82y103024s.m

STD. NAME	STD REF.#
Tune/Reschk	VP131199
Initial Calibration Stds	VP131200,VP131201,VP131203,VP131204,VP131205,VP131206
CCC	
Internal Standard/PEM	VP128297
ICV/I.BLK	VP131207
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VY020074.D	30 Oct 2024 12:07	SY/MD	Ok
2	VSTDICC005	VY020075.D	30 Oct 2024 12:39	SY/MD	Ok,M
3	VSTDICC010	VY020076.D	30 Oct 2024 13:02	SY/MD	Ok,M
4	VSTDICC020	VY020077.D	30 Oct 2024 13:24	SY/MD	Ok,M
5	VSTDICCC050	VY020078.D	30 Oct 2024 14:06	SY/MD	Ok,M
6	VSTDICC100	VY020079.D	30 Oct 2024 14:29	SY/MD	Ok,M
7	VSTDICC150	VY020080.D	30 Oct 2024 14:52	SY/MD	Ok,M
8	VIBLK	VY020081.D	30 Oct 2024 15:15	SY/MD	Ok
9	VSTDICV050	VY020082.D	30 Oct 2024 15:47	SY/MD	Not Ok

M : Manual Integration

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 # VY110124

Review By	Mahesh Dadoda	Review On	11/4/2024 5:56:28 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	11/4/2024 5:59:14 PM		
SubDirectory	VY110124	HP Acquire Method		HP Processing Method	sfamwlm103024sma.m

STD. NAME	STD REF.#
Tune/Reschk	VP131240
Initial Calibration Stds	
CCC	VP131241,VP131242
Internal Standard/PEM	VP128297
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VY020108.D	01 Nov 2024 08:26	SY/MD	Ok
2	VSTDCCC050	VY020109.D	01 Nov 2024 09:02	SY/MD	Ok,M
3	VY1101SBL01	VY020110.D	01 Nov 2024 09:42	SY/MD	Ok
4	VY1101SBS01	VY020111.D	01 Nov 2024 10:33	SY/MD	Ok,M
5	VY1101SBSD01	VY020112.D	01 Nov 2024 11:12	SY/MD	Ok,M
6	P4611-01	VY020113.D	01 Nov 2024 11:35	SY/MD	Ok
7	P4611-04	VY020114.D	01 Nov 2024 11:59	SY/MD	Ok
8	P4611-07	VY020115.D	01 Nov 2024 12:34	SY/MD	Ok
9	P4611-10	VY020116.D	01 Nov 2024 14:00	SY/MD	Ok
10	P4611-13	VY020117.D	01 Nov 2024 14:23	SY/MD	Ok
11	P4611-16	VY020118.D	01 Nov 2024 14:46	SY/MD	Ok
12	P4640-03	VY020119.D	01 Nov 2024 15:10	SY/MD	Ok
13	P4639-01	VY020120.D	01 Nov 2024 15:33	SY/MD	Ok,M
14	P4617-01RE	VY020121.D	01 Nov 2024 15:57	SY/MD	Confirms
15	P4612-03RE	VY020122.D	01 Nov 2024 16:20	SY/MD	Confirms
16	P4613-01	VY020123.D	01 Nov 2024 16:43	SY/MD	Ok
17	P4663-07	VY020124.D	01 Nov 2024 17:07	SY/MD	Ok
18	P4643-03	VY020125.D	01 Nov 2024 17:30	SY/MD	Ok
19	P4643-07	VY020126.D	01 Nov 2024 17:54	SY/MD	Not Ok
20	P4643-11	VY020127.D	01 Nov 2024 18:17	SY/MD	Ok
21	P4663-01	VY020128.D	01 Nov 2024 18:41	SY/MD	Ok

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY110124

Review By	Mahesh Dadoda	Review On	11/4/2024 5:56:28 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	11/4/2024 5:59:14 PM		
SubDirectory	VY110124	HP Acquire Method		HP Processing Method	sfamwlm103024sma.m

STD. NAME	STD REF.#
Tune/Reschk	VP131240
Initial Calibration Stds	
CCC	VP131241,VP131242
Internal Standard/PEM	VP128297
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	P4663-03	VY020129.D	01 Nov 2024 19:04	SY/MD	Ok
23	P4663-05	VY020130.D	01 Nov 2024 19:27	SY/MD	Ok
24	VSTDCCC050	VY020131.D	01 Nov 2024 19:50	SY/MD	Ok,M

M : Manual Integration

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 # VY103024

Review By	Mahesh Dadoda	Review On	11/1/2024 5:33:31 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	11/1/2024 5:33:47 PM		
SubDirectory	VY103024	HP Acquire Method		HP Processing Method	82y103024s.m

STD. NAME	STD REF.#
Tune/Reschk	VP131199
Initial Calibration Stds	VP131200,VP131201,VP131203,VP131204,VP131205,VP131206
CCC	
Internal Standard/PEM	VP128297
ICV/I.BLK	VP131207
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VY020074.D	30 Oct 2024 12:07		SY/MD	Ok
2	VSTDICC005	VSTDICC005	VY020075.D	30 Oct 2024 12:39	Method pass	SY/MD	Ok,M
3	VSTDICC010	VSTDICC010	VY020076.D	30 Oct 2024 13:02		SY/MD	Ok,M
4	VSTDICC020	VSTDICC020	VY020077.D	30 Oct 2024 13:24		SY/MD	Ok,M
5	VSTDICCC050	VSTDICCC050	VY020078.D	30 Oct 2024 14:06		SY/MD	Ok,M
6	VSTDICC100	VSTDICC100	VY020079.D	30 Oct 2024 14:29		SY/MD	Ok,M
7	VSTDICC150	VSTDICC150	VY020080.D	30 Oct 2024 14:52		SY/MD	Ok,M
8	VIBLK	VIBLK	VY020081.D	30 Oct 2024 15:15		SY/MD	Ok
9	VSTDICV050	ICVVY103024	VY020082.D	30 Oct 2024 15:47	fail icv	SY/MD	Not Ok

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 # VY110124

Review By	Mahesh Dadoda	Review On	11/4/2024 5:56:28 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	11/4/2024 5:59:14 PM		
SubDirectory	VY110124	HP Acquire Method		HP Processing Method	sfamwlm103024sma.m

STD. NAME	STD REF.#
Tune/Reschk	VP131240
Initial Calibration Stds	
CCC	VP131241,VP131242
Internal Standard/PEM	VP128297
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VY020108.D	01 Nov 2024 08:26		SY/MD	Ok
2	VSTDCCC050	VSTDCCC050	VY020109.D	01 Nov 2024 09:02		SY/MD	Ok,M
3	VY1101SBL01	VY1101SBL01	VY020110.D	01 Nov 2024 09:42		SY/MD	Ok
4	VY1101SBS01	VY1101SBS01	VY020111.D	01 Nov 2024 10:33		SY/MD	Ok,M
5	VY1101SBSD01	VY1101SBSD01	VY020112.D	01 Nov 2024 11:12		SY/MD	Ok,M
6	P4611-01	TP-1	VY020113.D	01 Nov 2024 11:35	vial-A	SY/MD	Ok
7	P4611-04	TP-2	VY020114.D	01 Nov 2024 11:59	vial-A	SY/MD	Ok
8	P4611-07	TP-3	VY020115.D	01 Nov 2024 12:34	vial-A	SY/MD	Ok
9	P4611-10	TP-4	VY020116.D	01 Nov 2024 14:00	vial-A	SY/MD	Ok
10	P4611-13	TP-5	VY020117.D	01 Nov 2024 14:23	vial-A	SY/MD	Ok
11	P4611-16	TP-6	VY020118.D	01 Nov 2024 14:46	vial-A	SY/MD	Ok
12	P4640-03	MH-3-VOC	VY020119.D	01 Nov 2024 15:10	vial-A	SY/MD	Ok
13	P4639-01	EO-01-103024	VY020120.D	01 Nov 2024 15:33	vial-A	SY/MD	Ok,M
14	P4617-01RE	RO-SOILRE	VY020121.D	01 Nov 2024 15:57	vial-B ISTD Fail	SY/MD	Confirms
15	P4612-03RE	MOO-24-00335RE	VY020122.D	01 Nov 2024 16:20	vial-B ISTD Fail	SY/MD	Confirms
16	P4613-01	ARS20-0001	VY020123.D	01 Nov 2024 16:43	vial-B ISTD Fail	SY/MD	Ok
17	P4663-07	RES-BUILDING-PAD-N	VY020124.D	01 Nov 2024 17:07	vial-A	SY/MD	Ok
18	P4643-03	BP-F9-ADDITIONAL-V	VY020125.D	01 Nov 2024 17:30	vial-A	SY/MD	Ok

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 # VY110124

Review By	Mahesh Dadoda	Review On	11/4/2024 5:56:28 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	11/4/2024 5:59:14 PM		
SubDirectory	VY110124	HP Acquire Method		HP Processing Method	sfamwlm103024sma.m

STD. NAME	STD REF.#
Tune/Reschk	VP131240
Initial Calibration Stds	
CCC	VP131241,VP131242
Internal Standard/PEM	VP128297
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	P4643-07	BP-F8-VOC	VY020126.D	01 Nov 2024 17:54	Not purge vial-A	SY/MD	Not Ok
20	P4643-11	TP-9-VOC	VY020127.D	01 Nov 2024 18:17	vial-A	SY/MD	Ok
21	P4663-01	TENNANT-PAD-2-3-ST	VY020128.D	01 Nov 2024 18:41	vial-A	SY/MD	Ok
22	P4663-03	RES-BUILDING-PAD-N	VY020129.D	01 Nov 2024 19:04	vial-A	SY/MD	Ok
23	P4663-05	RES-BUILDING-PAD-N	VY020130.D	01 Nov 2024 19:27	vial-A	SY/MD	Ok
24	VSTDCCC050	VSTDCCC050EC	VY020131.D	01 Nov 2024 19:50		SY/MD	Ok,M

M : Manual Integration

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LAB CHRONICLE

OrderID:	P4663	**OrderDate:**	10/31/2024 3:05:00 PM
Client:	Union Paving & Construction Company	**Project:**	Rt. 10 Whippany
Contact:	Gregory Butler	**Location:**	K41,VOA Ref. #2 Soil

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P4663-01	**TENNANT-PAD-2-3-STOCKPILE**	**SOIL**			**10/31/24**			**10/31/24**
			VOCMS Group1	8260D			11/01/24	
P4663-03	**RES-BUILDING-PAD-NO-11**	**SOIL**			**10/31/24**			**10/31/24**
			VOCMS Group1	8260D			11/01/24	
P4663-05	**RES-BUILDING-PAD-NO-3**	**SOIL**			**10/31/24**			**10/31/24**
			VOCMS Group1	8260D			11/01/24	
P4663-07	**RES-BUILDING-PAD-NO-2**	**SOIL**			**10/31/24**			**10/31/24**
			VOCMS Group1	8260D			11/01/24	

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Hit Summary Sheet
SW-846

SDG No.: P4663

Client: Union Paving & Construction Company

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID :	**TENNANT-PAD-2-3-STOCKPILE**							
P4663-02	TENNANT-PAD-2-3-ST(	SOIL	Fluoranthene	180.000	J	89.8	190	ug/Kg
P4663-02	TENNANT-PAD-2-3-ST(	SOIL	Pyrene	160.000	J	91.2	190	ug/Kg
P4663-02	TENNANT-PAD-2-3-ST(	SOIL	Benzo(a)anthracene	94.300	J	88.7	190	ug/Kg
P4663-02	TENNANT-PAD-2-3-ST(	SOIL	Chrysene	100.000	J	87.4	190	ug/Kg
P4663-02	TENNANT-PAD-2-3-ST(	SOIL	Benzo(b)fluoranthene	120.000	J	89.2	190	ug/Kg
			Total Svoc :	**654.30**				
			Total Concentration:	**654.30**				

SAMPLE DATA

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Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	10/31/24
Project:	Rt. 10 Whippany	Date Received:	10/31/24
Client Sample ID:	TENNANT-PAD-2-3-STOCKPILE	SDG No.:	P4663
Lab Sample ID:	P4663-02	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	90.9
Sample Wt/Vol:	30.02 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
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
BE101450.D	1	11/01/24 09:43	11/01/24 15:45	PB164593

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	200	U	200	360	ug/Kg
108-95-2	Phenol	91.1	U	91.1	190	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	92.0	U	92.0	190	ug/Kg
95-57-8	2-Chlorophenol	91.8	U	91.8	190	ug/Kg
95-48-7	2-Methylphenol	88.6	U	88.6	190	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	99.9	U	99.9	190	ug/Kg
98-86-2	Acetophenone	95.5	U	95.5	190	ug/Kg
65794-96-9	3+4-Methylphenols	87.7	U	87.7	360	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	44.3	U	44.3	88.0	ug/Kg
67-72-1	Hexachloroethane	91.2	U	91.2	190	ug/Kg
98-95-3	Nitrobenzene	99.8	U	99.8	190	ug/Kg
78-59-1	Isophorone	93.0	U	93.0	190	ug/Kg
88-75-5	2-Nitrophenol	100	U	100	190	ug/Kg
105-67-9	2,4-Dimethylphenol	100	U	100	190	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	94.3	U	94.3	190	ug/Kg
120-83-2	2,4-Dichlorophenol	83.0	U	83.0	190	ug/Kg
91-20-3	Naphthalene	90.8	U	90.8	190	ug/Kg
106-47-8	4-Chloroaniline	90.8	U	90.8	190	ug/Kg
87-68-3	Hexachlorobutadiene	91.6	U	91.6	190	ug/Kg
105-60-2	Caprolactam	95.4	U	95.4	360	ug/Kg
59-50-7	4-Chloro-3-methylphenol	85.2	U	85.2	190	ug/Kg
91-57-6	2-Methylnaphthalene	90.7	U	90.7	190	ug/Kg
77-47-4	Hexachlorocyclopentadiene	170	UQ	170	360	ug/Kg
88-06-2	2,4,6-Trichlorophenol	78.5	U	78.5	190	ug/Kg
95-95-4	2,4,5-Trichlorophenol	81.4	U	81.4	190	ug/Kg
92-52-4	1,1-Biphenyl	96.1	U	96.1	190	ug/Kg
91-58-7	2-Chloronaphthalene	91.6	U	91.6	190	ug/Kg
88-74-4	2-Nitroaniline	100	U	100	190	ug/Kg
131-11-3	Dimethylphthalate	89.8	U	89.8	190	ug/Kg

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Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	10/31/24
Project:	Rt. 10 Whippany	Date Received:	10/31/24
Client Sample ID:	TENNANT-PAD-2-3-STOCKPILE	SDG No.:	P4663
Lab Sample ID:	P4663-02	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	90.9
Sample Wt/Vol:	30.02 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
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
BE101450.D	1	11/01/24 09:43	11/01/24 15:45	PB164593

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	95.1	U	95.1	190	ug/Kg
606-20-2	2,6-Dinitrotoluene	91.5	U	91.5	190	ug/Kg
99-09-2	3-Nitroaniline	98.1	UQ	98.1	190	ug/Kg
83-32-9	Acenaphthene	89.2	U	89.2	190	ug/Kg
51-28-5	2,4-Dinitrophenol	270	U	270	360	ug/Kg
100-02-7	4-Nitrophenol	130	U	130	360	ug/Kg
132-64-9	Dibenzofuran	92.8	U	92.8	190	ug/Kg
121-14-2	2,4-Dinitrotoluene	94.8	U	94.8	190	ug/Kg
84-66-2	Diethylphthalate	88.1	U	88.1	190	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	94.1	U	94.1	190	ug/Kg
86-73-7	Fluorene	94.0	U	94.0	190	ug/Kg
100-01-6	4-Nitroaniline	120	U	120	190	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	130	U	130	360	ug/Kg
86-30-6	n-Nitrosodiphenylamine	89.7	U	89.7	190	ug/Kg
101-55-3	4-Bromophenyl-phenylether	86.7	U	86.7	190	ug/Kg
118-74-1	Hexachlorobenzene	93.4	U	93.4	190	ug/Kg
1912-24-9	Atrazine	100	U	100	190	ug/Kg
87-86-5	Pentachlorophenol	85.0	U	85.0	360	ug/Kg
85-01-8	Phenanthrene	92.3	U	92.3	190	ug/Kg
120-12-7	Anthracene	92.8	U	92.8	190	ug/Kg
86-74-8	Carbazole	88.3	U	88.3	190	ug/Kg
84-74-2	Di-n-butylphthalate	92.7	U	92.7	190	ug/Kg
206-44-0	Fluoranthene	180	J	89.8	190	ug/Kg
129-00-0	Pyrene	160	J	91.2	190	ug/Kg
85-68-7	Butylbenzylphthalate	110	U	110	190	ug/Kg
91-94-1	3,3-Dichlorobenzidine	110	U	110	360	ug/Kg
56-55-3	Benzo(a)anthracene	94.3	J	88.7	190	ug/Kg
218-01-9	Chrysene	100	J	87.4	190	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	100	U	100	190	ug/Kg
117-84-0	Di-n-octyl phthalate	120	U	120	360	ug/Kg
205-99-2	Benzo(b)fluoranthene	120	J	89.2	190	ug/Kg

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Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	10/31/24
Project:	Rt. 10 Whippany	Date Received:	10/31/24
Client Sample ID:	TENNANT-PAD-2-3-STOCKPILE	SDG No.:	P4663
Lab Sample ID:	P4663-02	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	90.9
Sample Wt/Vol:	30.02 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
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
BE101450.D	1	11/01/24 09:43	11/01/24 15:45	PB164593

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	90.8	U	90.8	190	ug/Kg
50-32-8	Benzo(a)pyrene	100	U	100	190	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	85.9	U	85.9	190	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	89.3	U	89.3	190	ug/Kg
191-24-2	Benzo(g,h,i)perylene	88.1	U	88.1	190	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	95.4	U	95.4	190	ug/Kg
123-91-1	1,4-Dioxane	120	U	120	190	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	82.1	U	82.1	190	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	104		30 (18) - 130 (112)	69%	SPK: 150
13127-88-3	Phenol-d6	98.8		30 (15) - 130 (107)	66%	SPK: 150
4165-60-0	Nitrobenzene-d5	64.7		30 (18) - 130 (107)	65%	SPK: 100
321-60-8	2-Fluorobiphenyl	68.6		30 (20) - 130 (109)	69%	SPK: 100
118-79-6	2,4,6-Tribromophenol	101		30 (10) - 130 (116)	67%	SPK: 150
1718-51-0	Terphenyl-d14	73.9		30 (10) - 130 (105)	74%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	90700	7.573			
1146-65-2	Naphthalene-d8	397000	10.34			
15067-26-2	Acenaphthene-d10	265000	14.182			
1517-22-2	Phenanthrene-d10	598000	16.92			
1719-03-5	Chrysene-d12	669000	21.08			
1520-96-3	Perylene-d12	876000	23.378			

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:	Union Paving & Construction Company	Date Collected:	10/31/24
Project:	Rt. 10 Whippany	Date Received:	10/31/24
Client Sample ID:	RES-BUILDING-PAD-NO-11	SDG No.:	P4663
Lab Sample ID:	P4663-04	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	91.7
Sample Wt/Vol:	30.06 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
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
BF140212.D	1	11/01/24 09:43	11/01/24 15:47	PB164593

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	200	U	200	360	ug/Kg
108-95-2	Phenol	90.2	U	90.2	190	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	91.1	U	91.1	190	ug/Kg
95-57-8	2-Chlorophenol	90.9	U	90.9	190	ug/Kg
95-48-7	2-Methylphenol	87.7	U	87.7	190	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	98.9	U	98.9	190	ug/Kg
98-86-2	Acetophenone	94.6	U	94.6	190	ug/Kg
65794-96-9	3+4-Methylphenols	86.8	U	86.8	360	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	43.9	U	43.9	87.1	ug/Kg
67-72-1	Hexachloroethane	90.3	U	90.3	190	ug/Kg
98-95-3	Nitrobenzene	98.8	U	98.8	190	ug/Kg
78-59-1	Isophorone	92.1	U	92.1	190	ug/Kg
88-75-5	2-Nitrophenol	100	U	100	190	ug/Kg
105-67-9	2,4-Dimethylphenol	100	U	100	190	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	93.4	U	93.4	190	ug/Kg
120-83-2	2,4-Dichlorophenol	82.2	U	82.2	190	ug/Kg
91-20-3	Naphthalene	89.9	U	89.9	190	ug/Kg
106-47-8	4-Chloroaniline	89.9	U	89.9	190	ug/Kg
87-68-3	Hexachlorobutadiene	90.7	U	90.7	190	ug/Kg
105-60-2	Caprolactam	94.5	U	94.5	360	ug/Kg
59-50-7	4-Chloro-3-methylphenol	84.3	U	84.3	190	ug/Kg
91-57-6	2-Methylnaphthalene	89.8	U	89.8	190	ug/Kg
77-47-4	Hexachlorocyclopentadiene	170	UQ	170	360	ug/Kg
88-06-2	2,4,6-Trichlorophenol	77.7	U	77.7	190	ug/Kg
95-95-4	2,4,5-Trichlorophenol	80.5	U	80.5	190	ug/Kg
92-52-4	1,1-Biphenyl	95.1	U	95.1	190	ug/Kg
91-58-7	2-Chloronaphthalene	90.7	U	90.7	190	ug/Kg
88-74-4	2-Nitroaniline	100	U	100	190	ug/Kg
131-11-3	Dimethylphthalate	88.9	U	88.9	190	ug/Kg

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Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	10/31/24
Project:	Rt. 10 Whippany	Date Received:	10/31/24
Client Sample ID:	RES-BUILDING-PAD-NO-11	SDG No.:	P4663
Lab Sample ID:	P4663-04	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	91.7
Sample Wt/Vol:	30.06 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
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
BF140212.D	1	11/01/24 09:43	11/01/24 15:47	PB164593

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	94.1	U	94.1	190	ug/Kg
606-20-2	2,6-Dinitrotoluene	90.5	U	90.5	190	ug/Kg
99-09-2	3-Nitroaniline	97.1	UQ	97.1	190	ug/Kg
83-32-9	Acenaphthene	88.3	U	88.3	190	ug/Kg
51-28-5	2,4-Dinitrophenol	260	U	260	360	ug/Kg
100-02-7	4-Nitrophenol	130	U	130	360	ug/Kg
132-64-9	Dibenzofuran	91.9	U	91.9	190	ug/Kg
121-14-2	2,4-Dinitrotoluene	93.8	U	93.8	190	ug/Kg
84-66-2	Diethylphthalate	87.2	U	87.2	190	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	93.2	U	93.2	190	ug/Kg
86-73-7	Fluorene	93.1	U	93.1	190	ug/Kg
100-01-6	4-Nitroaniline	120	U	120	190	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	130	U	130	360	ug/Kg
86-30-6	n-Nitrosodiphenylamine	88.8	U	88.8	190	ug/Kg
101-55-3	4-Bromophenyl-phenylether	85.9	U	85.9	190	ug/Kg
118-74-1	Hexachlorobenzene	92.5	U	92.5	190	ug/Kg
1912-24-9	Atrazine	99.5	U	99.5	190	ug/Kg
87-86-5	Pentachlorophenol	84.1	U	84.1	360	ug/Kg
85-01-8	Phenanthrene	91.4	U	91.4	190	ug/Kg
120-12-7	Anthracene	91.9	U	91.9	190	ug/Kg
86-74-8	Carbazole	87.4	U	87.4	190	ug/Kg
84-74-2	Di-n-butylphthalate	91.7	U	91.7	190	ug/Kg
206-44-0	Fluoranthene	88.9	U	88.9	190	ug/Kg
129-00-0	Pyrene	90.3	U	90.3	190	ug/Kg
85-68-7	Butylbenzylphthalate	110	U	110	190	ug/Kg
91-94-1	3,3-Dichlorobenzidine	110	U	110	360	ug/Kg
56-55-3	Benzo(a)anthracene	87.8	U	87.8	190	ug/Kg
218-01-9	Chrysene	86.5	U	86.5	190	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	99.0	U	99.0	190	ug/Kg
117-84-0	Di-n-octyl phthalate	120	U	120	360	ug/Kg
205-99-2	Benzo(b)fluoranthene	88.3	U	88.3	190	ug/Kg

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Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	10/31/24
Project:	Rt. 10 Whippany	Date Received:	10/31/24
Client Sample ID:	RES-BUILDING-PAD-NO-11	SDG No.:	P4663
Lab Sample ID:	P4663-04	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	91.7
Sample Wt/Vol:	30.06 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
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
BF140212.D	1	11/01/24 09:43	11/01/24 15:47	PB164593

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	89.9	U	89.9	190	ug/Kg
50-32-8	Benzo(a)pyrene	100	U	100	190	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	85.0	U	85.0	190	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	88.4	U	88.4	190	ug/Kg
191-24-2	Benzo(g,h,i)perylene	87.2	U	87.2	190	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	94.5	U	94.5	190	ug/Kg
123-91-1	1,4-Dioxane	120	U	120	190	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	81.3	U	81.3	190	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	87.2		30 (18) - 130 (112)	58%	SPK: 150
13127-88-3	Phenol-d6	88.9		30 (15) - 130 (107)	59%	SPK: 150
4165-60-0	Nitrobenzene-d5	71.4		30 (18) - 130 (107)	71%	SPK: 100
321-60-8	2-Fluorobiphenyl	69.4		30 (20) - 130 (109)	69%	SPK: 100
118-79-6	2,4,6-Tribromophenol	95.4		30 (10) - 130 (116)	64%	SPK: 150
1718-51-0	Terphenyl-d14	67.7		30 (10) - 130 (105)	68%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	106000	6.881			
1146-65-2	Naphthalene-d8	419000	8.163			
15067-26-2	Acenaphthene-d10	231000	9.922			
1517-22-2	Phenanthrene-d10	392000	11.416			
1719-03-5	Chrysene-d12	198000	14.068			
1520-96-3	Perylene-d12	222000	15.568			

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

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

Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	10/31/24
Project:	Rt. 10 Whippany	Date Received:	10/31/24
Client Sample ID:	RES-BUILDING-PAD-NO-3	SDG No.:	P4663
Lab Sample ID:	P4663-06	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	91.2
Sample Wt/Vol:	30.08 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
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
BE101448.D	1	11/01/24 09:43	11/01/24 14:33	PB164593

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	200	U	200	360	ug/Kg
108-95-2	Phenol	90.7	U	90.7	190	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	91.5	U	91.5	190	ug/Kg
95-57-8	2-Chlorophenol	91.3	U	91.3	190	ug/Kg
95-48-7	2-Methylphenol	88.1	U	88.1	190	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	99.4	U	99.4	190	ug/Kg
98-86-2	Acetophenone	95.0	U	95.0	190	ug/Kg
65794-96-9	3+4-Methylphenols	87.3	U	87.3	360	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	44.1	U	44.1	87.5	ug/Kg
67-72-1	Hexachloroethane	90.8	U	90.8	190	ug/Kg
98-95-3	Nitrobenzene	99.3	U	99.3	190	ug/Kg
78-59-1	Isophorone	92.5	U	92.5	190	ug/Kg
88-75-5	2-Nitrophenol	100	U	100	190	ug/Kg
105-67-9	2,4-Dimethylphenol	100	U	100	190	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	93.8	U	93.8	190	ug/Kg
120-83-2	2,4-Dichlorophenol	82.6	U	82.6	190	ug/Kg
91-20-3	Naphthalene	90.3	U	90.3	190	ug/Kg
106-47-8	4-Chloroaniline	90.3	U	90.3	190	ug/Kg
87-68-3	Hexachlorobutadiene	91.1	U	91.1	190	ug/Kg
105-60-2	Caprolactam	94.9	U	94.9	360	ug/Kg
59-50-7	4-Chloro-3-methylphenol	84.8	U	84.8	190	ug/Kg
91-57-6	2-Methylnaphthalene	90.2	U	90.2	190	ug/Kg
77-47-4	Hexachlorocyclopentadiene	170	UQ	170	360	ug/Kg
88-06-2	2,4,6-Trichlorophenol	78.1	U	78.1	190	ug/Kg
95-95-4	2,4,5-Trichlorophenol	80.9	U	80.9	190	ug/Kg
92-52-4	1,1-Biphenyl	95.6	U	95.6	190	ug/Kg
91-58-7	2-Chloronaphthalene	91.1	U	91.1	190	ug/Kg
88-74-4	2-Nitroaniline	100	U	100	190	ug/Kg
131-11-3	Dimethylphthalate	89.3	U	89.3	190	ug/Kg

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Project:	Rt. 10 Whippany	Date Received:	10/31/24
Client Sample ID:	RES-BUILDING-PAD-NO-3	SDG No.:	P4663
Lab Sample ID:	P4663-06	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	91.2
Sample Wt/Vol:	30.08 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
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
BE101448.D	1	11/01/24 09:43	11/01/24 14:33	PB164593

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	94.6	U	94.6	190	ug/Kg
606-20-2	2,6-Dinitrotoluene	91.0	U	91.0	190	ug/Kg
99-09-2	3-Nitroaniline	97.5	UQ	97.5	190	ug/Kg
83-32-9	Acenaphthene	88.7	U	88.7	190	ug/Kg
51-28-5	2,4-Dinitrophenol	270	U	270	360	ug/Kg
100-02-7	4-Nitrophenol	130	U	130	360	ug/Kg
132-64-9	Dibenzofuran	92.3	U	92.3	190	ug/Kg
121-14-2	2,4-Dinitrotoluene	94.3	U	94.3	190	ug/Kg
84-66-2	Diethylphthalate	87.6	U	87.6	190	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	93.6	U	93.6	190	ug/Kg
86-73-7	Fluorene	93.5	U	93.5	190	ug/Kg
100-01-6	4-Nitroaniline	120	U	120	190	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	130	U	130	360	ug/Kg
86-30-6	n-Nitrosodiphenylamine	89.2	U	89.2	190	ug/Kg
101-55-3	4-Bromophenyl-phenylether	86.3	U	86.3	190	ug/Kg
118-74-1	Hexachlorobenzene	93.0	U	93.0	190	ug/Kg
1912-24-9	Atrazine	100	U	100	190	ug/Kg
87-86-5	Pentachlorophenol	84.5	U	84.5	360	ug/Kg
85-01-8	Phenanthrene	91.9	U	91.9	190	ug/Kg
120-12-7	Anthracene	92.3	U	92.3	190	ug/Kg
86-74-8	Carbazole	87.8	U	87.8	190	ug/Kg
84-74-2	Di-n-butylphthalate	92.2	U	92.2	190	ug/Kg
206-44-0	Fluoranthene	89.3	U	89.3	190	ug/Kg
129-00-0	Pyrene	90.8	U	90.8	190	ug/Kg
85-68-7	Butylbenzylphthalate	110	U	110	190	ug/Kg
91-94-1	3,3-Dichlorobenzidine	110	U	110	360	ug/Kg
56-55-3	Benzo(a)anthracene	88.3	U	88.3	190	ug/Kg
218-01-9	Chrysene	86.9	U	86.9	190	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	99.5	U	99.5	190	ug/Kg
117-84-0	Di-n-octyl phthalate	120	U	120	360	ug/Kg
205-99-2	Benzo(b)fluoranthene	88.7	U	88.7	190	ug/Kg

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Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	10/31/24
Project:	Rt. 10 Whippany	Date Received:	10/31/24
Client Sample ID:	RES-BUILDING-PAD-NO-3	SDG No.:	P4663
Lab Sample ID:	P4663-06	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	91.2
Sample Wt/Vol:	30.08 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
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
BE101448.D	1	11/01/24 09:43	11/01/24 14:33	PB164593

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	90.3	U	90.3	190	ug/Kg
50-32-8	Benzo(a)pyrene	100	U	100	190	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	85.4	U	85.4	190	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	88.8	U	88.8	190	ug/Kg
191-24-2	Benzo(g,h,i)perylene	87.6	U	87.6	190	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	94.9	U	94.9	190	ug/Kg
123-91-1	1,4-Dioxane	120	U	120	190	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	81.7	U	81.7	190	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	106		30 (18) - 130 (112)	71%	SPK: 150
13127-88-3	Phenol-d6	99.6		30 (15) - 130 (107)	66%	SPK: 150
4165-60-0	Nitrobenzene-d5	66.6		30 (18) - 130 (107)	67%	SPK: 100
321-60-8	2-Fluorobiphenyl	68.9		30 (20) - 130 (109)	69%	SPK: 100
118-79-6	2,4,6-Tribromophenol	102		30 (10) - 130 (116)	68%	SPK: 150
1718-51-0	Terphenyl-d14	71.8		30 (10) - 130 (105)	72%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	69400	7.575			
1146-65-2	Naphthalene-d8	297000	10.337			
15067-26-2	Acenaphthene-d10	198000	14.179			
1517-22-2	Phenanthrene-d10	455000	16.917			
1719-03-5	Chrysene-d12	540000	21.083			
1520-96-3	Perylene-d12	717000	23.374			

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:	Union Paving & Construction Company	Date Collected:	10/31/24
Project:	Rt. 10 Whippany	Date Received:	10/31/24
Client Sample ID:	RES-BUILDING-PAD-NO-2	SDG No.:	P4663
Lab Sample ID:	P4663-08	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	91.3
Sample Wt/Vol:	30.03 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
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
BF140208.D	1	11/01/24 09:43	11/01/24 14:00	PB164593

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	200	U	200	360	ug/Kg
108-95-2	Phenol	90.7	U	90.7	190	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	91.6	U	91.6	190	ug/Kg
95-57-8	2-Chlorophenol	91.4	U	91.4	190	ug/Kg
95-48-7	2-Methylphenol	88.2	U	88.2	190	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	99.5	U	99.5	190	ug/Kg
98-86-2	Acetophenone	95.1	U	95.1	190	ug/Kg
65794-96-9	3+4-Methylphenols	87.3	U	87.3	360	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	44.1	U	44.1	87.5	ug/Kg
67-72-1	Hexachloroethane	90.8	U	90.8	190	ug/Kg
98-95-3	Nitrobenzene	99.4	U	99.4	190	ug/Kg
78-59-1	Isophorone	92.6	U	92.6	190	ug/Kg
88-75-5	2-Nitrophenol	100	U	100	190	ug/Kg
105-67-9	2,4-Dimethylphenol	100	U	100	190	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	93.9	U	93.9	190	ug/Kg
120-83-2	2,4-Dichlorophenol	82.6	U	82.6	190	ug/Kg
91-20-3	Naphthalene	90.4	U	90.4	190	ug/Kg
106-47-8	4-Chloroaniline	90.4	U	90.4	190	ug/Kg
87-68-3	Hexachlorobutadiene	91.1	U	91.1	190	ug/Kg
105-60-2	Caprolactam	95.0	U	95.0	360	ug/Kg
59-50-7	4-Chloro-3-methylphenol	84.8	U	84.8	190	ug/Kg
91-57-6	2-Methylnaphthalene	90.3	U	90.3	190	ug/Kg
77-47-4	Hexachlorocyclopentadiene	170	UQ	170	360	ug/Kg
88-06-2	2,4,6-Trichlorophenol	78.1	U	78.1	190	ug/Kg
95-95-4	2,4,5-Trichlorophenol	81.0	U	81.0	190	ug/Kg
92-52-4	1,1-Biphenyl	95.6	U	95.6	190	ug/Kg
91-58-7	2-Chloronaphthalene	91.1	U	91.1	190	ug/Kg
88-74-4	2-Nitroaniline	100	U	100	190	ug/Kg
131-11-3	Dimethylphthalate	89.4	U	89.4	190	ug/Kg

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Client:	Union Paving & Construction Company	Date Collected:	10/31/24
Project:	Rt. 10 Whippany	Date Received:	10/31/24
Client Sample ID:	RES-BUILDING-PAD-NO-2	SDG No.:	P4663
Lab Sample ID:	P4663-08	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	91.3
Sample Wt/Vol:	30.03 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
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
BF140208.D	1	11/01/24 09:43	11/01/24 14:00	PB164593

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	94.6	U	94.6	190	ug/Kg
606-20-2	2,6-Dinitrotoluene	91.0	U	91.0	190	ug/Kg
99-09-2	3-Nitroaniline	97.6	UQ	97.6	190	ug/Kg
83-32-9	Acenaphthene	88.7	U	88.7	190	ug/Kg
51-28-5	2,4-Dinitrophenol	270	U	270	360	ug/Kg
100-02-7	4-Nitrophenol	130	U	130	360	ug/Kg
132-64-9	Dibenzofuran	92.4	U	92.4	190	ug/Kg
121-14-2	2,4-Dinitrotoluene	94.3	U	94.3	190	ug/Kg
84-66-2	Diethylphthalate	87.6	U	87.6	190	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	93.7	U	93.7	190	ug/Kg
86-73-7	Fluorene	93.6	U	93.6	190	ug/Kg
100-01-6	4-Nitroaniline	120	U	120	190	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	130	U	130	360	ug/Kg
86-30-6	n-Nitrosodiphenylamine	89.3	U	89.3	190	ug/Kg
101-55-3	4-Bromophenyl-phenylether	86.3	U	86.3	190	ug/Kg
118-74-1	Hexachlorobenzene	93.0	U	93.0	190	ug/Kg
1912-24-9	Atrazine	100	U	100	190	ug/Kg
87-86-5	Pentachlorophenol	84.6	U	84.6	360	ug/Kg
85-01-8	Phenanthrene	91.9	U	91.9	190	ug/Kg
120-12-7	Anthracene	92.4	U	92.4	190	ug/Kg
86-74-8	Carbazole	87.9	U	87.9	190	ug/Kg
84-74-2	Di-n-butylphthalate	92.2	U	92.2	190	ug/Kg
206-44-0	Fluoranthene	89.4	U	89.4	190	ug/Kg
129-00-0	Pyrene	90.8	U	90.8	190	ug/Kg
85-68-7	Butylbenzylphthalate	110	U	110	190	ug/Kg
91-94-1	3,3-Dichlorobenzidine	110	U	110	360	ug/Kg
56-55-3	Benzo(a)anthracene	88.3	U	88.3	190	ug/Kg
218-01-9	Chrysene	87.0	U	87.0	190	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	99.6	U	99.6	190	ug/Kg
117-84-0	Di-n-octyl phthalate	120	U	120	360	ug/Kg
205-99-2	Benzo(b)fluoranthene	88.7	U	88.7	190	ug/Kg

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Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	10/31/24
Project:	Rt. 10 Whippany	Date Received:	10/31/24
Client Sample ID:	RES-BUILDING-PAD-NO-2	SDG No.:	P4663
Lab Sample ID:	P4663-08	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	91.3
Sample Wt/Vol:	30.03 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
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
BF140208.D	1	11/01/24 09:43	11/01/24 14:00	PB164593

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	90.4	U	90.4	190	ug/Kg
50-32-8	Benzo(a)pyrene	100	U	100	190	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	85.5	U	85.5	190	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	88.8	U	88.8	190	ug/Kg
191-24-2	Benzo(g,h,i)perylene	87.6	U	87.6	190	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	95.0	U	95.0	190	ug/Kg
123-91-1	1,4-Dioxane	120	U	120	190	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	81.7	U	81.7	190	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	102		30 (18) - 130 (112)	68%	SPK: 150
13127-88-3	Phenol-d6	101		30 (15) - 130 (107)	67%	SPK: 150
4165-60-0	Nitrobenzene-d5	79.7		30 (18) - 130 (107)	80%	SPK: 100
321-60-8	2-Fluorobiphenyl	75.0		30 (20) - 130 (109)	75%	SPK: 100
118-79-6	2,4,6-Tribromophenol	112		30 (10) - 130 (116)	75%	SPK: 150
1718-51-0	Terphenyl-d14	80.0		30 (10) - 130 (105)	80%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	106000	6.881			
1146-65-2	Naphthalene-d8	423000	8.163			
15067-26-2	Acenaphthene-d10	243000	9.927			
1517-22-2	Phenanthrene-d10	448000	11.421			
1719-03-5	Chrysene-d12	249000	14.074			
1520-96-3	Perylene-d12	218000	15.574			

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.: P4663

Client: Union Paving & Construction Company

Analytical Method: 8270E

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
P4663-02	TENNANT-PAD-2-3-STOCKPILE	2-Fluorophenol	150	104	69		30 (18)	130 (112)
		Phenol-d6	150	98.8	66		30 (15)	130 (107)
		Nitrobenzene-d5	100	64.7	65		30 (18)	130 (107)
		2-Fluorobiphenyl	100	68.6	69		30 (20)	130 (109)
		2,4,6-Tribromophenol	150	101	67		30 (10)	130 (116)
		Terphenyl-d14	100	73.9	74		30 (10)	130 (105)
P4663-04	RES-BUILDING-PAD-NO-11	2-Fluorophenol	150	87.2	58		30 (18)	130 (112)
		Phenol-d6	150	88.9	59		30 (15)	130 (107)
		Nitrobenzene-d5	100	71.4	71		30 (18)	130 (107)
		2-Fluorobiphenyl	100	69.4	69		30 (20)	130 (109)
		2,4,6-Tribromophenol	150	95.4	64		30 (10)	130 (116)
		Terphenyl-d14	100	67.7	68		30 (10)	130 (105)
P4663-06	RES-BUILDING-PAD-NO-3	2-Fluorophenol	150	106	71		30 (18)	130 (112)
		Phenol-d6	150	99.6	66		30 (15)	130 (107)
		Nitrobenzene-d5	100	66.6	67		30 (18)	130 (107)
		2-Fluorobiphenyl	100	68.9	69		30 (20)	130 (109)
		2,4,6-Tribromophenol	150	102	68		30 (10)	130 (116)
		Terphenyl-d14	100	71.8	72		30 (10)	130 (105)
P4663-08	RES-BUILDING-PAD-NO-2	2-Fluorophenol	150	102	68		30 (18)	130 (112)
		Phenol-d6	150	101	67		30 (15)	130 (107)
		Nitrobenzene-d5	100	79.7	80		30 (18)	130 (107)
		2-Fluorobiphenyl	100	75.0	75		30 (20)	130 (109)
		2,4,6-Tribromophenol	150	112	75		30 (10)	130 (116)
		Terphenyl-d14	100	80.0	80		30 (10)	130 (105)
P4663-08MS	RES-BUILDING-PAD-NO-2MS	2-Fluorophenol	150	104	69		30 (18)	130 (112)
		Phenol-d6	150	104	69		30 (15)	130 (107)
		Nitrobenzene-d5	100	81.4	81		30 (18)	130 (107)
		2-Fluorobiphenyl	100	75.9	76		30 (20)	130 (109)
		2,4,6-Tribromophenol	150	111	74		30 (10)	130 (116)
		Terphenyl-d14	100	86.3	86		30 (10)	130 (105)
P4663-08MSD	RES-BUILDING-PAD-NO-2MSD	2-Fluorophenol	150	109	73		30 (18)	130 (112)
		Phenol-d6	150	111	74		30 (15)	130 (107)
		Nitrobenzene-d5	100	86.4	86		30 (18)	130 (107)
		2-Fluorobiphenyl	100	80.7	81		30 (20)	130 (109)
		2,4,6-Tribromophenol	150	120	80		30 (10)	130 (116)
		Terphenyl-d14	100	94.8	95		30 (10)	130 (105)
PB164593BL	PB164593BL	2-Fluorophenol	150	126	84		30 (18)	130 (112)
		Phenol-d6	150	112	75		30 (15)	130 (107)
		Nitrobenzene-d5	100	81.0	81		30 (18)	130 (107)
		2-Fluorobiphenyl	100	86.3	86		30 (20)	130 (109)
		2,4,6-Tribromophenol	150	125	83		30 (10)	130 (116)
		Terphenyl-d14	100	80.1	80		30 (10)	130 (105)
PB164593BS	PB164593BS	2-Fluorophenol	150	158	105		30 (18)	130 (112)
		Phenol-d6	150	143	95		30 (15)	130 (107)
		Nitrobenzene-d5	100	101	101		30 (18)	130 (107)
		2-Fluorobiphenyl	100	108	108		30 (20)	130 (109)
		2,4,6-Tribromophenol	150	149	99		30 (10)	130 (116)
		Terphenyl-d14	100	99.2	99		30 (10)	130 (105)

( ) = LABORATORY INHOUSE LIMIT

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: P4663

Client: Union Paving & Construction Company

Analytical Method: SW8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Lab Sample ID: P4663-08MS		**Client Sample ID: RES-BUILDING-PAD-NO-2MS**						**DataFile: BF140209.D**			
Benzaldehyde	1800	0	460	ug/Kg	26				20 (10)	160 (86)	
Phenol	1800	0	1800	ug/Kg	100				20 (67)	160 (126)	
bis(2-Chloroethyl)ether	1800	0	1800	ug/Kg	100				70 (54)	130 (125)	
2-Chlorophenol	1800	0	1900	ug/Kg	106				70 (79)	130 (107)	
2-Methylphenol	1800	0	1900	ug/Kg	106				70 (66)	130 (122)	
2,2-oxybis(1-Chloropropane)	1800	0	1900	ug/Kg	106				70 (65)	130 (110)	
Acetophenone	1800	0	1700	ug/Kg	94				70 (75)	130 (111)	
3+4-Methylphenols	1800	0	1800	ug/Kg	100				20 (66)	160 (104)	
N-Nitroso-di-n-propylamine	1800	0	1800	ug/Kg	100				70 (59)	130 (119)	
Hexachloroethane	1800	0	1800	ug/Kg	100				20 (65)	160 (117)	
Nitrobenzene	1800	0	1800	ug/Kg	100				70 (70)	130 (119)	
Isophorone	1800	0	1900	ug/Kg	106				70 (76)	130 (122)	
2-Nitrophenol	1800	0	2200	ug/Kg	122				70 (54)	130 (145)	
2,4-Dimethylphenol	1800	0	2100	ug/Kg	117				70 (44)	130 (135)	
bis(2-Chloroethoxy)methane	1800	0	1800	ug/Kg	100				70 (68)	130 (112)	
2,4-Dichlorophenol	1800	0	1800	ug/Kg	100				70 (72)	130 (118)	
Naphthalene	1800	0	1800	ug/Kg	100				70 (72)	130 (110)	
4-Chloroaniline	1800	0	770	ug/Kg	43	*			70 (10)	130 (91)	
Hexachlorobutadiene	1800	0	1800	ug/Kg	100				70 (66)	130 (114)	
Caprolactam	1800	0	1900	ug/Kg	106				20 (51)	160 (134)	
4-Chloro-3-methylphenol	1800	0	1900	ug/Kg	106				70 (57)	130 (132)	
2-Methylnaphthalene	1800	0	1800	ug/Kg	100				70 (59)	130 (123)	
Hexachlorocyclopentadiene	3600	0	5900	ug/Kg	164	*			20 (10)	160 (175)	
2,4,6-Trichlorophenol	1800	0	1800	ug/Kg	100				70 (72)	130 (117)	
2,4,5-Trichlorophenol	1800	0	1800	ug/Kg	100				70 (72)	130 (117)	
1,1-Biphenyl	1800	0	1800	ug/Kg	100				70 (75)	130 (113)	
2-Chloronaphthalene	1800	0	1700	ug/Kg	94				70 (67)	130 (118)	
2-Nitroaniline	1800	0	2100	ug/Kg	117				70 (69)	130 (127)	
Dimethylphthalate	1800	0	1900	ug/Kg	106				70 (70)	130 (113)	
Acenaphthylene	1800	0	1900	ug/Kg	106				70 (79)	130 (118)	
2,6-Dinitrotoluene	1800	0	1900	ug/Kg	106				70 (70)	130 (125)	
3-Nitroaniline	1800	0	1300	ug/Kg	72				70 (30)	130 (99)	
Acenaphthene	1800	0	2000	ug/Kg	111				70 (70)	130 (121)	
2,4-Dinitrophenol	3600	0	4700	ug/Kg	131				20 (10)	160 (155)	
4-Nitrophenol	3600	0	3900	ug/Kg	108				20 (45)	160 (133)	
Dibenzofuran	1800	0	1800	ug/Kg	100				70 (72)	130 (110)	
2,4-Dinitrotoluene	1800	0	2100	ug/Kg	117				70 (55)	130 (128)	
Diethylphthalate	1800	0	1900	ug/Kg	106				70 (70)	130 (112)	
4-Chlorophenyl-phenylether	1800	0	1800	ug/Kg	100				70 (71)	130 (108)	
Fluorene	1800	0	1800	ug/Kg	100				70 (68)	130 (116)	
4-Nitroaniline	1800	0	2000	ug/Kg	111				70 (55)	130 (120)	
4,6-Dinitro-2-methylphenol	1800	0	2500	ug/Kg	139	*			70 (10)	130 (160)	
N-Nitrosodiphenylamine	1800	0	1800	ug/Kg	100				70 (73)	130 (118)	
4-Bromophenyl-phenylether	1800	0	1800	ug/Kg	100				70 (65)	130 (121)	
Hexachlorobenzene	1800	0	1700	ug/Kg	94				70 (67)	130 (118)	
Atrazine	1800	0	2200	ug/Kg	122				70 (79)	130 (127)	

( ) = LABORATORY INHOUSE LIMIT

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: P4663

Client: Union Paving & Construction Company

Analytical Method: SW8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Pentachlorophenol	3600	0	3400	ug/Kg	94				20 (47)	160 (128)	
Phenanthrene	1800	0	1800	ug/Kg	100				70 (52)	130 (128)	
Anthracene	1800	0	1800	ug/Kg	100				70 (62)	130 (124)	
Carbazole	1800	0	1700	ug/Kg	94				70 (59)	130 (119)	
Di-n-butylphthalate	1800	0	1900	ug/Kg	106				70 (69)	130 (118)	
Fluoranthene	1800	0	1700	ug/Kg	94				70 (44)	130 (125)	
Pyrene	1800	0	1900	ug/Kg	106				70 (26)	130 (142)	
Butylbenzylphthalate	1800	0	2700	ug/Kg	150	*			70 (64)	130 (126)	
3,3-Dichlorobenzidine	1800	0	1400	ug/Kg	78				70 (33)	130 (116)	
Benzo(a)anthracene	1800	0	1800	ug/Kg	100				70 (71)	130 (114)	
Chrysene	1800	0	1900	ug/Kg	106				70 (57)	130 (121)	
bis(2-Ethylhexyl)phthalate	1800	0	3000	ug/Kg	167	*			70 (42)	130 (169)	
Di-n-octyl phthalate	1800	0	2400	ug/Kg	133	*			70 (23)	130 (175)	
Benzo(b)fluoranthene	1800	0	1800	ug/Kg	100				70 (67)	130 (121)	
Benzo(k)fluoranthene	1800	0	1700	ug/Kg	94				70 (57)	130 (134)	
Benzo(a)pyrene	1800	0	2000	ug/Kg	111				70 (70)	130 (142)	
Indeno(1,2,3-cd)pyrene	1800	0	1900	ug/Kg	106				70 (40)	130 (129)	
Dibenz(a,h)anthracene	1800	0	1800	ug/Kg	100				70 (43)	130 (123)	
Benzo(g,h,i)perylene	1800	0	1600	ug/Kg	89				70 (24)	130 (125)	
1,2,4,5-Tetrachlorobenzene	1800	0	1800	ug/Kg	100				70 (69)	130 (124)	
1,4-Dioxane	1800	0	1500	ug/Kg	83				20 (46)	160 (112)	
2,3,4,6-Tetrachlorophenol	1800	0	1900	ug/Kg	106				70 (69)	130 (112)	

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: P4663

Client: Union Paving & Construction Company

Analytical Method: SW8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Lab Sample ID: P4663-08MSD		**Client Sample ID: RES-BUILDING-PAD-NO-2MSD**						**DataFile: BF140210.D**			
Benzaldehyde	1800	0	480	ug/Kg	27		4		20 (10)	160 (86)	30 (20)
Phenol	1800	0	1900	ug/Kg	106		6		20 (67)	160 (126)	30 (20)
bis(2-Chloroethyl)ether	1800	0	1900	ug/Kg	106		6		70 (54)	130 (125)	30 (20)
2-Chlorophenol	1800	0	2000	ug/Kg	111		5		70 (79)	130 (107)	30 (20)
2-Methylphenol	1800	0	2000	ug/Kg	111		5		70 (66)	130 (122)	30 (20)
2,2-oxybis(1-Chloropropane)	1800	0	2000	ug/Kg	111		5		70 (65)	130 (110)	30 (20)
Acetophenone	1800	0	1800	ug/Kg	100		6		70 (75)	130 (111)	30 (20)
3+4-Methylphenols	1800	0	1900	ug/Kg	106		6		20 (66)	160 (104)	30 (20)
N-Nitroso-di-n-propylamine	1800	0	1900	ug/Kg	106		6		70 (59)	130 (119)	30 (20)
Hexachloroethane	1800	0	1900	ug/Kg	106		6		20 (65)	160 (117)	30 (20)
Nitrobenzene	1800	0	1900	ug/Kg	106		6		70 (70)	130 (119)	30 (20)
Isophorone	1800	0	2000	ug/Kg	111		5		70 (76)	130 (122)	30 (20)
2-Nitrophenol	1800	0	2300	ug/Kg	128		5		70 (54)	130 (145)	30 (20)
2,4-Dimethylphenol	1800	0	2200	ug/Kg	122		4		70 (44)	130 (135)	30 (20)
bis(2-Chloroethoxy)methane	1800	0	1900	ug/Kg	106		6		70 (68)	130 (112)	30 (20)
2,4-Dichlorophenol	1800	0	1900	ug/Kg	106		6		70 (72)	130 (118)	30 (20)
Naphthalene	1800	0	1900	ug/Kg	106		6		70 (72)	130 (110)	30 (20)
4-Chloroaniline	1800	0	820	ug/Kg	46	*	7		70 (10)	130 (91)	30 (20)
Hexachlorobutadiene	1800	0	1900	ug/Kg	106		6		70 (66)	130 (114)	30 (20)
Caprolactam	1800	0	1900	ug/Kg	106		0		20 (51)	160 (134)	30 (20)
4-Chloro-3-methylphenol	1800	0	2000	ug/Kg	111		5		70 (57)	130 (132)	30 (20)
2-Methylnaphthalene	1800	0	1900	ug/Kg	106		6		70 (59)	130 (123)	30 (20)
Hexachlorocyclopentadiene	3600	0	6100	ug/Kg	169	*	3		20 (10)	160 (175)	30 (20)
2,4,6-Trichlorophenol	1800	0	2000	ug/Kg	111		10		70 (72)	130 (117)	30 (20)
2,4,5-Trichlorophenol	1800	0	1900	ug/Kg	106		6		70 (72)	130 (117)	30 (20)
1,1-Biphenyl	1800	0	1900	ug/Kg	106		6		70 (75)	130 (113)	30 (20)
2-Chloronaphthalene	1800	0	1800	ug/Kg	100		6		70 (67)	130 (118)	30 (20)
2-Nitroaniline	1800	0	2200	ug/Kg	122		4		70 (69)	130 (127)	30 (20)
Dimethylphthalate	1800	0	2000	ug/Kg	111		5		70 (70)	130 (113)	30 (20)
Acenaphthylene	1800	0	2000	ug/Kg	111		5		70 (79)	130 (118)	30 (20)
2,6-Dinitrotoluene	1800	0	2100	ug/Kg	117		10		70 (70)	130 (125)	30 (20)
3-Nitroaniline	1800	0	1300	ug/Kg	72		0		70 (30)	130 (99)	30 (20)
Acenaphthene	1800	0	2100	ug/Kg	117		5		70 (70)	130 (121)	30 (20)
2,4-Dinitrophenol	3600	0	4800	ug/Kg	133		2		20 (10)	160 (155)	30 (20)
4-Nitrophenol	3600	0	4100	ug/Kg	114		5		20 (45)	160 (133)	30 (20)
Dibenzofuran	1800	0	1900	ug/Kg	106		6		70 (72)	130 (110)	30 (20)
2,4-Dinitrotoluene	1800	0	2300	ug/Kg	128		9		70 (55)	130 (128)	30 (20)
Diethylphthalate	1800	0	2000	ug/Kg	111		5		70 (70)	130 (112)	30 (20)
4-Chlorophenyl-phenylether	1800	0	1900	ug/Kg	106		6		70 (71)	130 (108)	30 (20)
Fluorene	1800	0	1900	ug/Kg	106		6		70 (68)	130 (116)	30 (20)
4-Nitroaniline	1800	0	2100	ug/Kg	117		5		70 (55)	130 (120)	30 (20)
4,6-Dinitro-2-methylphenol	1800	0	2700	ug/Kg	150	*	8		70 (10)	130 (160)	30 (20)
N-Nitrosodiphenylamine	1800	0	1900	ug/Kg	106		6		70 (73)	130 (118)	30 (20)
4-Bromophenyl-phenylether	1800	0	1900	ug/Kg	106		6		70 (65)	130 (121)	30 (20)
Hexachlorobenzene	1800	0	1900	ug/Kg	106		12		70 (67)	130 (118)	30 (20)
Atrazine	1800	0	2300	ug/Kg	128		5		70 (79)	130 (127)	30 (20)

( ) = LABORATORY INHOUSE LIMIT

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: P4663

Client: Union Paving & Construction Company

Analytical Method: SW8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	Limits RPD
Pentachlorophenol	3600	0	3700	ug/Kg	103		9		20 (47)	160 (128)	30 (20)
Phenanthrene	1800	0	1900	ug/Kg	106		6		70 (52)	130 (128)	30 (20)
Anthracene	1800	0	2000	ug/Kg	111		10		70 (62)	130 (124)	30 (20)
Carbazole	1800	0	1900	ug/Kg	106		12		70 (59)	130 (119)	30 (20)
Di-n-butylphthalate	1800	0	2100	ug/Kg	117		10		70 (69)	130 (118)	30 (20)
Fluoranthene	1800	0	1900	ug/Kg	106		12		70 (44)	130 (125)	30 (20)
Pyrene	1800	0	2100	ug/Kg	117		10		70 (26)	130 (142)	30 (20)
Butylbenzylphthalate	1800	0	3000	ug/Kg	167	*	11		70 (64)	130 (126)	30 (20)
3,3-Dichlorobenzidine	1800	0	1700	ug/Kg	94		19		70 (33)	130 (116)	30 (20)
Benzo(a)anthracene	1800	0	2000	ug/Kg	111		10		70 (71)	130 (114)	30 (20)
Chrysene	1800	0	2000	ug/Kg	111		5		70 (57)	130 (121)	30 (20)
bis(2-Ethylhexyl)phthalate	1800	0	3300	ug/Kg	183	*	9		70 (42)	130 (169)	30 (20)
Di-n-octyl phthalate	1800	0	2600	ug/Kg	144	*	8		70 (23)	130 (175)	30 (20)
Benzo(b)fluoranthene	1800	0	1900	ug/Kg	106		6		70 (67)	130 (121)	30 (20)
Benzo(k)fluoranthene	1800	0	1900	ug/Kg	106		12		70 (57)	130 (134)	30 (20)
Benzo(a)pyrene	1800	0	2100	ug/Kg	117		5		70 (70)	130 (142)	30 (20)
Indeno(1,2,3-cd)pyrene	1800	0	1900	ug/Kg	106		0		70 (40)	130 (129)	30 (20)
Dibenz(a,h)anthracene	1800	0	1900	ug/Kg	106		6		70 (43)	130 (123)	30 (20)
Benzo(g,h,i)perylene	1800	0	1700	ug/Kg	94		5		70 (24)	130 (125)	30 (20)
1,2,4,5-Tetrachlorobenzene	1800	0	1900	ug/Kg	106		6		70 (69)	130 (124)	30 (20)
1,4-Dioxane	1800	0	1500	ug/Kg	83		0		20 (46)	160 (112)	30 (20)
2,3,4,6-Tetrachlorophenol	1800	0	2000	ug/Kg	111		5		70 (69)	130 (112)	30 (20)

( ) = LABORATORY INHOUSE LIMIT

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4663

Client: Union Paving & Construction Company

Analytical Method: 8270E **DataFile:** BE101455.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	Limits RPD
PB164593BS	Benzaldehyde	1700	360	ug/Kg	21				20 (10)	160 (133)	
	Phenol	1700	1700	ug/Kg	100				20 (62)	160 (112)	
	bis(2-Chloroethyl)ether	1700	1400	ug/Kg	82				70 (60)	130 (101)	
	2-Chlorophenol	1700	1700	ug/Kg	100				70 (65)	130 (112)	
	2-Methylphenol	1700	1600	ug/Kg	94				70 (61)	130 (108)	
	2,2-oxybis(1-Chloropropane)	1700	1500	ug/Kg	88				70 (51)	130 (100)	
	Acetophenone	1700	1600	ug/Kg	94				70 (66)	130 (98)	
	3+4-Methylphenols	1700	1500	ug/Kg	88				20 (58)	160 (111)	
	N-Nitroso-di-n-propylamine	1700	1500	ug/Kg	88				70 (63)	130 (95)	
	Hexachloroethane	1700	1600	ug/Kg	94				20 (72)	160 (108)	
	Nitrobenzene	1700	1600	ug/Kg	94				70 (57)	130 (101)	
	Isophorone	1700	1600	ug/Kg	94				70 (59)	130 (99)	
	2-Nitrophenol	1700	1800	ug/Kg	106				70 (61)	130 (111)	
	2,4-Dimethylphenol	1700	2100	ug/Kg	124				70 (46)	130 (141)	
	bis(2-Chloroethoxy)methane	1700	1600	ug/Kg	94				70 (66)	130 (97)	
	2,4-Dichlorophenol	1700	1700	ug/Kg	100				70 (62)	130 (107)	
	Naphthalene	1700	1600	ug/Kg	94				70 (62)	130 (100)	
	4-Chloroaniline	1700	1200	ug/Kg	71				70 (16)	130 (100)	
	Hexachlorobutadiene	1700	1700	ug/Kg	100				70 (53)	130 (98)	
	Caprolactam	1700	1500	ug/Kg	88				20 (67)	160 (110)	
	4-Chloro-3-methylphenol	1700	1600	ug/Kg	94				70 (58)	130 (112)	
	2-Methylnaphthalene	1700	1600	ug/Kg	94				70 (60)	130 (104)	
	Hexachlorocyclopentadiene	3300	7100	ug/Kg	215		*		20 (45)	160 (165)	
	2,4,6-Trichlorophenol	1700	1800	ug/Kg	106				70 (59)	130 (102)	
	2,4,5-Trichlorophenol	1700	1700	ug/Kg	100				70 (61)	130 (98)	
	1,1-Biphenyl	1700	1700	ug/Kg	100				70 (57)	130 (103)	
	2-Chloronaphthalene	1700	1700	ug/Kg	100				70 (58)	130 (99)	
	2-Nitroaniline	1700	1800	ug/Kg	106				70 (66)	130 (101)	
	Dimethylphthalate	1700	1600	ug/Kg	94				70 (61)	130 (99)	
	Acenaphthylene	1700	1800	ug/Kg	106				70 (63)	130 (101)	
	2,6-Dinitrotoluene	1700	1600	ug/Kg	94				70 (61)	130 (104)	
	3-Nitroaniline	1700	1100	ug/Kg	65		*		70 (28)	130 (100)	
	Acenaphthene	1700	1700	ug/Kg	100				70 (57)	130 (104)	
	2,4-Dinitrophenol	3300	2700	ug/Kg	82				20 (37)	160 (128)	
	4-Nitrophenol	3300	3100	ug/Kg	94				20 (48)	160 (119)	
	Dibenzofuran	1700	1600	ug/Kg	94				70 (63)	130 (99)	
	2,4-Dinitrotoluene	1700	1600	ug/Kg	94				70 (60)	130 (106)	
	Diethylphthalate	1700	1600	ug/Kg	94				70 (60)	130 (101)	
	4-Chlorophenyl-phenylether	1700	1600	ug/Kg	94				70 (58)	130 (98)	
	Fluorene	1700	1600	ug/Kg	94				70 (61)	130 (101)	
	4-Nitroaniline	1700	1400	ug/Kg	82				70 (64)	130 (103)	
	4,6-Dinitro-2-methylphenol	1700	1700	ug/Kg	100				70 (76)	130 (113)	
	N-Nitrosodiphenylamine	1700	1800	ug/Kg	106				70 (71)	130 (99)	
	4-Bromophenyl-phenylether	1700	1800	ug/Kg	106				70 (66)	130 (102)	

( ) = LABORATORY INHOUSE LIMIT

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4663

Client: Union Paving & Construction Company

Analytical Method: 8270E **DataFile:** BE101455.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB164593BS	Hexachlorobenzene	1700	1700	ug/Kg	100				70 (64)	130 (98)	
	Atrazine	1700	2100	ug/Kg	124				70 (47)	130 (152)	
	Pentachlorophenol	3300	3400	ug/Kg	103				20 (67)	160 (105)	
	Phenanthrene	1700	1800	ug/Kg	106				70 (59)	130 (103)	
	Anthracene	1700	1900	ug/Kg	112				70 (61)	130 (105)	
	Carbazole	1700	1700	ug/Kg	100				70 (61)	130 (99)	
	Di-n-butylphthalate	1700	1800	ug/Kg	106				70 (58)	130 (104)	
	Fluoranthene	1700	1700	ug/Kg	100				70 (57)	130 (107)	
	Pyrene	1700	1600	ug/Kg	94				70 (59)	130 (103)	
	Butylbenzylphthalate	1700	1700	ug/Kg	100				70 (55)	130 (103)	
	3,3-Dichlorobenzidine	1700	1400	ug/Kg	82				70 (42)	130 (91)	
	Benzo(a)anthracene	1700	1800	ug/Kg	106				70 (60)	130 (102)	
	Chrysene	1700	1800	ug/Kg	106				70 (59)	130 (101)	
	bis(2-Ethylhexyl)phthalate	1700	2000	ug/Kg	118				70 (54)	130 (135)	
	Di-n-octyl phthalate	1700	2200	ug/Kg	129				70 (52)	130 (137)	
	Benzo(b)fluoranthene	1700	1700	ug/Kg	100				70 (62)	130 (109)	
	Benzo(k)fluoranthene	1700	1700	ug/Kg	100				70 (62)	130 (109)	
	Benzo(a)pyrene	1700	1900	ug/Kg	112				70 (63)	130 (103)	
	Indeno(1,2,3-cd)pyrene	1700	1800	ug/Kg	106				70 (63)	130 (101)	
	Dibenz(a,h)anthracene	1700	1800	ug/Kg	106				70 (61)	130 (112)	
	Benzo(g,h,i)perylene	1700	1700	ug/Kg	100				70 (70)	130 (108)	
	1,2,4,5-Tetrachlorobenzene	1700	1800	ug/Kg	106				70 (53)	130 (101)	
	1,4-Dioxane	1700	1400	ug/Kg	82				20 (50)	160 (96)	
	2,3,4,6-Tetrachlorophenol	1700	1700	ug/Kg	100				70 (59)	130 (108)	

( ) = LABORATORY INHOUSE LIMIT

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4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB164593BL

Lab Name: CHEMTECH Contract: UNIO02

Lab Code: CHEM Case No.: P4663 SAS No.: P4663 SDG NO.: P4663

Lab File ID: BE101454.D Lab Sample ID: PB164593BL

Instrument ID: BNA_E Date Extracted: 11/01/2024

Matrix: (soil/water) SOIL Date Analyzed: 11/04/2024

Level: (low/med) LOW Time Analyzed: 13:25

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB164593BS	PB164593BS	BE101455.D	11/04/2024
RES-BUILDING-PAD-NO-2	P4663-08	BF140208.D	11/01/2024
RES-BUILDING-PAD-NO-11	P4663-04	BF140212.D	11/01/2024
RES-BUILDING-PAD-NO-2MS	P4663-08MS	BF140209.D	11/01/2024
RES-BUILDING-PAD-NO-2MSD	P4663-08MSD	BF140210.D	11/01/2024
TENNANT-PAD-2-3-STOCKPILE	P4663-02	BE101450.D	11/01/2024
RES-BUILDING-PAD-NO-3	P4663-06	BE101448.D	11/01/2024

COMMENTS:

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: UNIO02

Lab Code: CHEM SAS No.: P4663 SDG NO.: P4663

Lab File ID: BE101388.D DFTPP Injection Date: 10/28/2024

Instrument ID: BNA_E DFTPP Injection Time: 10:51

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	17.8
68	Less than 2.0% of mass 69	0.3 (1.5) 1
69	Mass 69 relative abundance	18.3
70	Less than 2.0% of mass 69	0.0 (0.1) 1
127	10.0 - 80.0% of mass 198	27.1
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	4
275	10.0 - 60.0% of mass 198	20
365	Greater than 1% of mass 198	3.2
441	Present, but less than mass 443	16.5
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	20.1 (20.1) 2

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

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDICC2.5	SSTDICC2.5	BE101389.D	10/28/2024	11:44
SSTDICC005	SSTDICC005	BE101390.D	10/28/2024	12:23
SSTDICC010	SSTDICC010	BE101391.D	10/28/2024	12:59
SSTDICC020	SSTDICC020	BE101392.D	10/28/2024	13:35
SSTDICCC040	SSTDICCC040	BE101393.D	10/28/2024	14:11
SSTDICC050	SSTDICC050	BE101394.D	10/28/2024	14:49
SSTDICC060	SSTDICC060	BE101395.D	10/28/2024	15:25
SSTDICC080	SSTDICC080	BE101396.D	10/28/2024	16:01

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: UNIO02

Lab Code: CHEM SAS No.: P4663 SDG NO.: P4663

Lab File ID: BE101443.D DFTPP Injection Date: 11/01/2024

Instrument ID: BNA_E DFTPP Injection Time: 09:05

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	13.1
68	Less than 2.0% of mass 69	0.2 (1.6) 1
69	Mass 69 relative abundance	14
70	Less than 2.0% of mass 69	0.1 (0.5) 1
127	10.0 - 80.0% of mass 198	21.2
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	3.4
275	10.0 - 60.0% of mass 198	17.6
365	Greater than 1% of mass 198	2.8
441	Present, but less than mass 443	16.4
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	BE101444.D	11/01/2024	09:41
RES-BUILDING-PAD-NO-3	P4663-06	BE101448.D	11/01/2024	14:33
TENNANT-PAD-2-3-STOCKPILE	P4663-02	BE101450.D	11/01/2024	15:45

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: UNIO02

Lab Code: CHEM SAS No.: P4663 SDG NO.: P4663

Lab File ID: BE101452.D DFTPP Injection Date: 11/04/2024

Instrument ID: BNA_E DFTPP Injection Time: 12:13

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	14.6
68	Less than 2.0% of mass 69	0.2 (1.6) 1
69	Mass 69 relative abundance	15.5
70	Less than 2.0% of mass 69	0.1 (0.5) 1
127	10.0 - 80.0% of mass 198	22
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	3.6
275	10.0 - 60.0% of mass 198	17.7
365	Greater than 1% of mass 198	3
441	Present, but less than mass 443	16.3
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	19.5 (19.5) 2

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

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC040	SSTDCCC040	BE101453.D	11/04/2024	12:49
PB164593BL	PB164593BL	BE101454.D	11/04/2024	13:25
PB164593BS	PB164593BS	BE101455.D	11/04/2024	14:04

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: UNIO02

Lab Code: CHEM SAS No.: P4663 SDG NO.: P4663

Lab File ID: BF139843.D DFTPP Injection Date: 10/18/2024

Instrument ID: BNA_F DFTPP Injection Time: 09:22

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	43.8
68	Less than 2.0% of mass 69	0.7 (1.9) 1
69	Mass 69 relative abundance	37.8
70	Less than 2.0% of mass 69	0.3 (0.7) 1
127	10.0 - 80.0% of mass 198	46.9
197	Less than 2.0% of mass 198	0.8
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.7
275	10.0 - 60.0% of mass 198	26.9
365	Greater than 1% of mass 198	3.4
441	Present, but less than mass 443	14
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	17.9 (19.2) 2

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

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDICC2.5	SSTDICC2.5	BF139844.D	10/18/2024	10:27
SSTDICC005	SSTDICC005	BF139845.D	10/18/2024	10:55
SSTDICC010	SSTDICC010	BF139846.D	10/18/2024	11:23
SSTDICC020	SSTDICC020	BF139847.D	10/18/2024	11:52
SSTDICCC040	SSTDICCC040	BF139848.D	10/18/2024	12:20
SSTDICC050	SSTDICC050	BF139849.D	10/18/2024	12:49
SSTDICC060	SSTDICC060	BF139850.D	10/18/2024	13:17
SSTDICC080	SSTDICC080	BF139851.D	10/18/2024	13:46

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: UNIO02

Lab Code: CHEM SAS No.: P4663 SDG NO.: P4663

Lab File ID: BF140199.D DFTPP Injection Date: 11/01/2024

Instrument ID: BNA_F DFTPP Injection Time: 08:56

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	42.9
68	Less than 2.0% of mass 69	0.7 (1.7) 1
69	Mass 69 relative abundance	37.8
70	Less than 2.0% of mass 69	0.2 (0.6) 1
127	10.0 - 80.0% of mass 198	47
197	Less than 2.0% of mass 198	0.7
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.6
275	10.0 - 60.0% of mass 198	28.1
365	Greater than 1% of mass 198	3.5
441	Present, but less than mass 443	15.6
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	19.3 (19.5) 2

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

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC040	SSTDCCC040	BF140200.D	11/01/2024	09:22
RES-BUILDING-PAD-NO-2	P4663-08	BF140208.D	11/01/2024	14:00
RES-BUILDING-PAD-NO-2MS	P4663-08MS	BF140209.D	11/01/2024	14:27
RES-BUILDING-PAD-NO-2MSD	P4663-08MSD	BF140210.D	11/01/2024	14:53
RES-BUILDING-PAD-NO-11	P4663-04	BF140212.D	11/01/2024	15:47

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P4663 SAS No.: P4663 SDG NO.: P4663

EPA Sample No.: SSTDCCC040 Date Analyzed: 11/01/2024

Lab File ID: BE101444.D Time Analyzed: 09:41

Instrument ID: BNA_E GC Column: ZB-GR ID: 0.25 (mm)

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	92171	7.576	414792	10.34	283187	14.19
	UPPER LIMIT	184342	8.076	829584	10.843	566374	14.686
	LOWER LIMIT	46085.5	7.076	207396	9.843	141594	13.686
	EPA SAMPLE NO.						
01	TENNANT-PAD-2-3-STOCKPILE	90671	7.57	396894	10.34	265226	14.18
02	RES-BUILDING-PAD-NO-3	69420	7.58	296978	10.34	197789	14.18

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.: P4663 SAS No.: P4663 SDG NO.: P4663

EPA Sample No.: SSTDCCC040 Date Analyzed: 11/01/2024

Lab File ID: BE101444.D Time Analyzed: 09:41

Instrument ID: BNA_E GC Column: ZB-GR ID: 0.25 (mm)

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	682015	16.924	817400	21.09	1050290	23.381
	UPPER LIMIT	1364030	17.424	1634800	21.59	2100580	23.881
	LOWER LIMIT	341008	16.424	408700	20.59	525145	22.881
	EPA SAMPLE NO.						
01	TENNANT-PAD-2-3-STOCKPILE	598076	16.92	668565	21.08	876363	23.38
02	RES-BUILDING-PAD-NO-3	455282	16.92	540190	21.08	717080	23.37

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

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

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

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P4663 SAS No.: P4663 SDG NO.: P4663

EPA Sample No.: SSTDCCC040 Date Analyzed: 11/04/2024

Lab File ID: BE101453.D Time Analyzed: 12:49

Instrument ID: BNA_E GC Column: ZB-GR ID: 0.25 (mm)

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	101222	7.57	465351	10.34	319103	14.19
	UPPER LIMIT	202444	8.07	930702	10.843	638206	14.686
	LOWER LIMIT	50611	7.07	232676	9.843	159552	13.686
	EPA SAMPLE NO.						
01	PB164593BL	83697	7.57	332383	10.34	209474	14.18
02	PB164593BS	76985	7.57	325431	10.34	205486	14.18

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.: P4663 SAS No.: P4663 SDG NO.: P4663

EPA Sample No.: SSTDCCC040 Date Analyzed: 11/04/2024

Lab File ID: BE101453.D Time Analyzed: 12:49

Instrument ID: BNA_E GC Column: ZB-GR ID: 0.25 (mm)

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	704364	16.924	756056	21.084	973527	23.375
	UPPER LIMIT	1408730	17.424	1512110	21.584	1947050	23.875
	LOWER LIMIT	352182	16.424	378028	20.584	486764	22.875
	EPA SAMPLE NO.						
01	PB164593BL	478774	16.92	637683	21.08	926419	23.37
02	PB164593BS	423694	16.92	509474	21.08	767672	23.38

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.: P4663 SAS No.: P4663 SDG NO.: P4663

EPA Sample No.: SSTDCCC040 Date Analyzed: 11/01/2024

Lab File ID: BF140200.D Time Analyzed: 09:22

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	147950	6.887	577069	8.17	331720	9.93
	UPPER LIMIT	295900	7.387	1154140	8.669	663440	10.428
	LOWER LIMIT	73975	6.387	288535	7.669	165860	9.428
	EPA SAMPLE NO.						
01	RES-BUILDING-PAD-NO-11	106496	6.88	419273	8.16	231436	9.92
02	RES-BUILDING-PAD-NO-2	105943	6.88	422510	8.16	242556	9.93
03	RES-BUILDING-PAD-NO-2MS	109344	6.89	436831	8.16	250775	9.93
04	RES-BUILDING-PAD-NO-2MSD	103190	6.89	410116	8.16	235405	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.: P4663 SAS No.: P4663 SDG NO.: P4663

EPA Sample No.: SSTDCCC040 Date Analyzed: 11/01/2024

Lab File ID: BF140200.D Time Analyzed: 09:22

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	606919	11.422	388668	14.08	308087	15.58
	UPPER LIMIT	1213840	11.922	777336	14.58	616174	16.08
	LOWER LIMIT	303460	10.922	194334	13.58	154044	15.08
	EPA SAMPLE NO.						
01	RES-BUILDING-PAD-NO-11	391644	11.42	198159	14.07	221860	15.57
02	RES-BUILDING-PAD-NO-2	447541	11.42	249474	14.07	218114	15.57
03	RES-BUILDING-PAD-NO-2MS	453631	11.42	223586	14.07	232464	15.57
04	RES-BUILDING-PAD-NO-2MSD	418261	11.42	199568	14.07	218473	15.57

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

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

Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	
Project:	Rt. 10 Whippany	Date Received:	
Client Sample ID:	PB164593BL	SDG No.:	P4663
Lab Sample ID:	PB164593BL	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	100
Sample Wt/Vol:	30.01 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
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
BE101454.D	1	11/01/24 09:43	11/04/24 13:25	PB164593

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	180	U	180	330	ug/Kg
108-95-2	Phenol	82.9	U	82.9	170	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	83.7	U	83.7	170	ug/Kg
95-57-8	2-Chlorophenol	83.5	U	83.5	170	ug/Kg
95-48-7	2-Methylphenol	80.6	U	80.6	170	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	90.9	U	90.9	170	ug/Kg
98-86-2	Acetophenone	86.9	U	86.9	170	ug/Kg
65794-96-9	3+4-Methylphenols	79.8	U	79.8	330	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	40.3	U	40.3	80.0	ug/Kg
67-72-1	Hexachloroethane	83.0	U	83.0	170	ug/Kg
98-95-3	Nitrobenzene	90.8	U	90.8	170	ug/Kg
78-59-1	Isophorone	84.6	U	84.6	170	ug/Kg
88-75-5	2-Nitrophenol	94.5	U	94.5	170	ug/Kg
105-67-9	2,4-Dimethylphenol	93.2	U	93.2	170	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	85.8	U	85.8	170	ug/Kg
120-83-2	2,4-Dichlorophenol	75.5	U	75.5	170	ug/Kg
91-20-3	Naphthalene	82.6	U	82.6	170	ug/Kg
106-47-8	4-Chloroaniline	82.6	U	82.6	170	ug/Kg
87-68-3	Hexachlorobutadiene	83.3	U	83.3	170	ug/Kg
105-60-2	Caprolactam	86.8	U	86.8	330	ug/Kg
59-50-7	4-Chloro-3-methylphenol	77.5	U	77.5	170	ug/Kg
91-57-6	2-Methylnaphthalene	82.5	U	82.5	170	ug/Kg
77-47-4	Hexachlorocyclopentadiene	160	U	160	330	ug/Kg
88-06-2	2,4,6-Trichlorophenol	71.4	U	71.4	170	ug/Kg
95-95-4	2,4,5-Trichlorophenol	74.0	U	74.0	170	ug/Kg
92-52-4	1,1-Biphenyl	87.4	U	87.4	170	ug/Kg
91-58-7	2-Chloronaphthalene	83.3	U	83.3	170	ug/Kg
88-74-4	2-Nitroaniline	95.0	U	95.0	170	ug/Kg
131-11-3	Dimethylphthalate	81.7	U	81.7	170	ug/Kg

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Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	
Project:	Rt. 10 Whippany	Date Received:	
Client Sample ID:	PB164593BL	SDG No.:	P4663
Lab Sample ID:	PB164593BL	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	100
Sample Wt/Vol:	30.01 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
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
BE101454.D	1	11/01/24 09:43	11/04/24 13:25	PB164593

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	86.5	U	86.5	170	ug/Kg
606-20-2	2,6-Dinitrotoluene	83.2	U	83.2	170	ug/Kg
99-09-2	3-Nitroaniline	89.2	U	89.2	170	ug/Kg
83-32-9	Acenaphthene	81.1	U	81.1	170	ug/Kg
51-28-5	2,4-Dinitrophenol	240	U	240	330	ug/Kg
100-02-7	4-Nitrophenol	120	U	120	330	ug/Kg
132-64-9	Dibenzofuran	84.4	U	84.4	170	ug/Kg
121-14-2	2,4-Dinitrotoluene	86.2	U	86.2	170	ug/Kg
84-66-2	Diethylphthalate	80.1	U	80.1	170	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	85.6	U	85.6	170	ug/Kg
86-73-7	Fluorene	85.5	U	85.5	170	ug/Kg
100-01-6	4-Nitroaniline	110	U	110	170	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	120	U	120	330	ug/Kg
86-30-6	n-Nitrosodiphenylamine	81.6	U	81.6	170	ug/Kg
101-55-3	4-Bromophenyl-phenylether	78.9	U	78.9	170	ug/Kg
118-74-1	Hexachlorobenzene	85.0	U	85.0	170	ug/Kg
1912-24-9	Atrazine	91.4	U	91.4	170	ug/Kg
87-86-5	Pentachlorophenol	77.3	U	77.3	330	ug/Kg
85-01-8	Phenanthrene	84.0	U	84.0	170	ug/Kg
120-12-7	Anthracene	84.4	U	84.4	170	ug/Kg
86-74-8	Carbazole	80.3	U	80.3	170	ug/Kg
84-74-2	Di-n-butylphthalate	84.3	U	84.3	170	ug/Kg
206-44-0	Fluoranthene	81.7	U	81.7	170	ug/Kg
129-00-0	Pyrene	83.0	U	83.0	170	ug/Kg
85-68-7	Butylbenzylphthalate	96.8	U	96.8	170	ug/Kg
91-94-1	3,3-Dichlorobenzidine	98.6	U	98.6	330	ug/Kg
56-55-3	Benzo(a)anthracene	80.7	U	80.7	170	ug/Kg
218-01-9	Chrysene	79.5	U	79.5	170	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	91.0	U	91.0	170	ug/Kg
117-84-0	Di-n-octyl phthalate	110	U	110	330	ug/Kg
205-99-2	Benzo(b)fluoranthene	81.1	U	81.1	170	ug/Kg

Alliance TECHNICAL GROUP
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Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	
Project:	Rt. 10 Whippany	Date Received:	
Client Sample ID:	PB164593BL	SDG No.:	P4663
Lab Sample ID:	PB164593BL	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	100
Sample Wt/Vol:	30.01 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
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
BE101454.D	1	11/01/24 09:43	11/04/24 13:25	PB164593

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	82.6	U	82.6	170	ug/Kg
50-32-8	Benzo(a)pyrene	93.0	U	93.0	170	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	78.1	U	78.1	170	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	81.2	U	81.2	170	ug/Kg
191-24-2	Benzo(g,h,i)perylene	80.1	U	80.1	170	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	86.8	U	86.8	170	ug/Kg
123-91-1	1,4-Dioxane	110	U	110	170	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	74.7	U	74.7	170	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	126		30 (18) - 130 (112)	84%	SPK: 150
13127-88-3	Phenol-d6	112		30 (15) - 130 (107)	75%	SPK: 150
4165-60-0	Nitrobenzene-d5	81.0		30 (18) - 130 (107)	81%	SPK: 100
321-60-8	2-Fluorobiphenyl	86.3		30 (20) - 130 (109)	86%	SPK: 100
118-79-6	2,4,6-Tribromophenol	125		30 (10) - 130 (116)	83%	SPK: 150
1718-51-0	Terphenyl-d14	80.1		30 (10) - 130 (105)	80%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	83700	7.573			
1146-65-2	Naphthalene-d8	332000	10.341			
15067-26-2	Acenaphthene-d10	209000	14.177			
1517-22-2	Phenanthrene-d10	479000	16.915			
1719-03-5	Chrysene-d12	638000	21.075			
1520-96-3	Perylene-d12	926000	23.372			

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:	Union Paving & Construction Company	Date Collected:	
Project:	Rt. 10 Whippany	Date Received:	
Client Sample ID:	PB164593BS	SDG No.:	P4663
Lab Sample ID:	PB164593BS	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	100
Sample Wt/Vol:	30.03 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
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
BE101455.D	1	11/01/24 09:43	11/04/24 14:04	PB164593

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	360		180	330	ug/Kg
108-95-2	Phenol	1700		82.8	170	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	1400		83.6	170	ug/Kg
95-57-8	2-Chlorophenol	1700		83.4	170	ug/Kg
95-48-7	2-Methylphenol	1600		80.5	170	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	1500		90.8	170	ug/Kg
98-86-2	Acetophenone	1600		86.8	170	ug/Kg
65794-96-9	3+4-Methylphenols	1500		79.7	330	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	1500		40.3	79.9	ug/Kg
67-72-1	Hexachloroethane	1600		82.9	170	ug/Kg
98-95-3	Nitrobenzene	1600		90.7	170	ug/Kg
78-59-1	Isophorone	1600		84.5	170	ug/Kg
88-75-5	2-Nitrophenol	1800		94.4	170	ug/Kg
105-67-9	2,4-Dimethylphenol	2100		93.1	170	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	1600		85.7	170	ug/Kg
120-83-2	2,4-Dichlorophenol	1700		75.4	170	ug/Kg
91-20-3	Naphthalene	1600		82.5	170	ug/Kg
106-47-8	4-Chloroaniline	1200		82.5	170	ug/Kg
87-68-3	Hexachlorobutadiene	1700		83.2	170	ug/Kg
105-60-2	Caprolactam	1500		86.7	330	ug/Kg
59-50-7	4-Chloro-3-methylphenol	1600		77.4	170	ug/Kg
91-57-6	2-Methylnaphthalene	1600		82.4	170	ug/Kg
77-47-4	Hexachlorocyclopentadiene	7100	E	160	330	ug/Kg
88-06-2	2,4,6-Trichlorophenol	1800		71.3	170	ug/Kg
95-95-4	2,4,5-Trichlorophenol	1700		73.9	170	ug/Kg
92-52-4	1,1-Biphenyl	1700		87.3	170	ug/Kg
91-58-7	2-Chloronaphthalene	1700		83.2	170	ug/Kg
88-74-4	2-Nitroaniline	1800		94.9	170	ug/Kg
131-11-3	Dimethylphthalate	1600		81.6	170	ug/Kg

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Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	
Project:	Rt. 10 Whippany	Date Received:	
Client Sample ID:	PB164593BS	SDG No.:	P4663
Lab Sample ID:	PB164593BS	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	100
Sample Wt/Vol:	30.03 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
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
BE101455.D	1	11/01/24 09:43	11/04/24 14:04	PB164593

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	1800		86.4	170	ug/Kg
606-20-2	2,6-Dinitrotoluene	1600		83.1	170	ug/Kg
99-09-2	3-Nitroaniline	1100		89.1	170	ug/Kg
83-32-9	Acenaphthene	1700		81.0	170	ug/Kg
51-28-5	2,4-Dinitrophenol	2700	E	240	330	ug/Kg
100-02-7	4-Nitrophenol	3100	E	120	330	ug/Kg
132-64-9	Dibenzofuran	1600		84.3	170	ug/Kg
121-14-2	2,4-Dinitrotoluene	1600		86.1	170	ug/Kg
84-66-2	Diethylphthalate	1600		80.0	170	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	1600		85.5	170	ug/Kg
86-73-7	Fluorene	1600		85.4	170	ug/Kg
100-01-6	4-Nitroaniline	1400		110	170	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	1700		120	330	ug/Kg
86-30-6	n-Nitrosodiphenylamine	1800		81.5	170	ug/Kg
101-55-3	4-Bromophenyl-phenylether	1800		78.8	170	ug/Kg
118-74-1	Hexachlorobenzene	1700		84.9	170	ug/Kg
1912-24-9	Atrazine	2100		91.3	170	ug/Kg
87-86-5	Pentachlorophenol	3400	E	77.2	330	ug/Kg
85-01-8	Phenanthrene	1800		83.9	170	ug/Kg
120-12-7	Anthracene	1900		84.3	170	ug/Kg
86-74-8	Carbazole	1700		80.2	170	ug/Kg
84-74-2	Di-n-butylphthalate	1800		84.2	170	ug/Kg
206-44-0	Fluoranthene	1700		81.6	170	ug/Kg
129-00-0	Pyrene	1600		82.9	170	ug/Kg
85-68-7	Butylbenzylphthalate	1700		96.7	170	ug/Kg
91-94-1	3,3-Dichlorobenzidine	1400		98.5	330	ug/Kg
56-55-3	Benzo(a)anthracene	1800		80.6	170	ug/Kg
218-01-9	Chrysene	1800		79.4	170	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	2000		90.9	170	ug/Kg
117-84-0	Di-n-octyl phthalate	2200		110	330	ug/Kg
205-99-2	Benzo(b)fluoranthene	1700		81.0	170	ug/Kg

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Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	
Project:	Rt. 10 Whippany	Date Received:	
Client Sample ID:	PB164593BS	SDG No.:	P4663
Lab Sample ID:	PB164593BS	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	100
Sample Wt/Vol:	30.03 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
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
BE101455.D	1	11/01/24 09:43	11/04/24 14:04	PB164593

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	1700		82.5	170	ug/Kg
50-32-8	Benzo(a)pyrene	1900		92.9	170	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	1800		78.0	170	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	1800		81.1	170	ug/Kg
191-24-2	Benzo(g,h,i)perylene	1700		80.0	170	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	1800		86.7	170	ug/Kg
123-91-1	1,4-Dioxane	1400		110	170	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	1700		74.6	170	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	158		30 (18) - 130 (112)	105%	SPK: 150
13127-88-3	Phenol-d6	143		30 (15) - 130 (107)	95%	SPK: 150
4165-60-0	Nitrobenzene-d5	101		30 (18) - 130 (107)	101%	SPK: 100
321-60-8	2-Fluorobiphenyl	108		30 (20) - 130 (109)	108%	SPK: 100
118-79-6	2,4,6-Tribromophenol	149		30 (10) - 130 (116)	99%	SPK: 150
1718-51-0	Terphenyl-d14	99.2		30 (10) - 130 (105)	99%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	77000	7.571			
1146-65-2	Naphthalene-d8	325000	10.338			
15067-26-2	Acenaphthene-d10	205000	14.18			
1517-22-2	Phenanthrene-d10	424000	16.918			
1719-03-5	Chrysene-d12	509000	21.084			
1520-96-3	Perylene-d12	768000	23.375			

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:	Union Paving & Construction Company	Date Collected:	10/31/24
Project:	Rt. 10 Whippany	Date Received:	10/31/24
Client Sample ID:	RES-BUILDING-PAD-NO-2MS	SDG No.:	P4663
Lab Sample ID:	P4663-08MS	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	91.3
Sample Wt/Vol:	30.05 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
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
BF140209.D	1	11/01/24 09:43	11/01/24 14:27	PB164593

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	460		200	360	ug/Kg
108-95-2	Phenol	1800		90.6	190	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	1800		91.5	190	ug/Kg
95-57-8	2-Chlorophenol	1900		91.3	190	ug/Kg
95-48-7	2-Methylphenol	1900		88.1	190	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	1900		99.4	190	ug/Kg
98-86-2	Acetophenone	1700		95.0	190	ug/Kg
65794-96-9	3+4-Methylphenols	1800		87.3	360	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	1800		44.1	87.5	ug/Kg
67-72-1	Hexachloroethane	1800		90.8	190	ug/Kg
98-95-3	Nitrobenzene	1800		99.3	190	ug/Kg
78-59-1	Isophorone	1900		92.5	190	ug/Kg
88-75-5	2-Nitrophenol	2200		100	190	ug/Kg
105-67-9	2,4-Dimethylphenol	2100		100	190	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	1800		93.8	190	ug/Kg
120-83-2	2,4-Dichlorophenol	1800		82.6	190	ug/Kg
91-20-3	Naphthalene	1800		90.3	190	ug/Kg
106-47-8	4-Chloroaniline	770		90.3	190	ug/Kg
87-68-3	Hexachlorobutadiene	1800		91.1	190	ug/Kg
105-60-2	Caprolactam	1900		94.9	360	ug/Kg
59-50-7	4-Chloro-3-methylphenol	1900		84.7	190	ug/Kg
91-57-6	2-Methylnaphthalene	1800		90.2	190	ug/Kg
77-47-4	Hexachlorocyclopentadiene	5900	E	170	360	ug/Kg
88-06-2	2,4,6-Trichlorophenol	1800		78.1	190	ug/Kg
95-95-4	2,4,5-Trichlorophenol	1800		80.9	190	ug/Kg
92-52-4	1,1-Biphenyl	1800		95.6	190	ug/Kg
91-58-7	2-Chloronaphthalene	1700		91.1	190	ug/Kg
88-74-4	2-Nitroaniline	2100		100	190	ug/Kg
131-11-3	Dimethylphthalate	1900		89.3	190	ug/Kg

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

Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	10/31/24
Project:	Rt. 10 Whippany	Date Received:	10/31/24
Client Sample ID:	RES-BUILDING-PAD-NO-2MS	SDG No.:	P4663
Lab Sample ID:	P4663-08MS	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	91.3
Sample Wt/Vol:	30.05 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
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
BF140209.D	1	11/01/24 09:43	11/01/24 14:27	PB164593

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	1900		94.6	190	ug/Kg
606-20-2	2,6-Dinitrotoluene	1900		91.0	190	ug/Kg
99-09-2	3-Nitroaniline	1300		97.5	190	ug/Kg
83-32-9	Acenaphthene	2000		88.7	190	ug/Kg
51-28-5	2,4-Dinitrophenol	4700	E	270	360	ug/Kg
100-02-7	4-Nitrophenol	3900	E	130	360	ug/Kg
132-64-9	Dibenzofuran	1800		92.3	190	ug/Kg
121-14-2	2,4-Dinitrotoluene	2100		94.3	190	ug/Kg
84-66-2	Diethylphthalate	1900		87.6	190	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	1800		93.6	190	ug/Kg
86-73-7	Fluorene	1800		93.5	190	ug/Kg
100-01-6	4-Nitroaniline	2000		120	190	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	2500		130	360	ug/Kg
86-30-6	n-Nitrosodiphenylamine	1800		89.2	190	ug/Kg
101-55-3	4-Bromophenyl-phenylether	1800		86.3	190	ug/Kg
118-74-1	Hexachlorobenzene	1700		92.9	190	ug/Kg
1912-24-9	Atrazine	2200		99.9	190	ug/Kg
87-86-5	Pentachlorophenol	3400	E	84.5	360	ug/Kg
85-01-8	Phenanthrene	1800		91.9	190	ug/Kg
120-12-7	Anthracene	1800		92.3	190	ug/Kg
86-74-8	Carbazole	1700		87.8	190	ug/Kg
84-74-2	Di-n-butylphthalate	1900		92.2	190	ug/Kg
206-44-0	Fluoranthene	1700		89.3	190	ug/Kg
129-00-0	Pyrene	1900		90.8	190	ug/Kg
85-68-7	Butylbenzylphthalate	2700		110	190	ug/Kg
91-94-1	3,3-Dichlorobenzidine	1400		110	360	ug/Kg
56-55-3	Benzo(a)anthracene	1800		88.2	190	ug/Kg
218-01-9	Chrysene	1900		86.9	190	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	3000	E	99.5	190	ug/Kg
117-84-0	Di-n-octyl phthalate	2400		120	360	ug/Kg
205-99-2	Benzo(b)fluoranthene	1800		88.7	190	ug/Kg

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Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	10/31/24
Project:	Rt. 10 Whippany	Date Received:	10/31/24
Client Sample ID:	RES-BUILDING-PAD-NO-2MS	SDG No.:	P4663
Lab Sample ID:	P4663-08MS	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	91.3
Sample Wt/Vol:	30.05 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
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
BF140209.D	1	11/01/24 09:43	11/01/24 14:27	PB164593

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	1700		90.3	190	ug/Kg
50-32-8	Benzo(a)pyrene	2000		100	190	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	1900		85.4	190	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	1800		88.8	190	ug/Kg
191-24-2	Benzo(g,h,i)perylene	1600		87.6	190	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	1800		94.9	190	ug/Kg
123-91-1	1,4-Dioxane	1500		120	190	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	1900		81.7	190	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	104		30 (18) - 130 (112)	69%	SPK: 150
13127-88-3	Phenol-d6	104		30 (15) - 130 (107)	69%	SPK: 150
4165-60-0	Nitrobenzene-d5	81.4		30 (18) - 130 (107)	81%	SPK: 100
321-60-8	2-Fluorobiphenyl	75.9		30 (20) - 130 (109)	76%	SPK: 100
118-79-6	2,4,6-Tribromophenol	111		30 (10) - 130 (116)	74%	SPK: 150
1718-51-0	Terphenyl-d14	86.3		30 (10) - 130 (105)	86%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	109000	6.887			
1146-65-2	Naphthalene-d8	437000	8.163			
15067-26-2	Acenaphthene-d10	251000	9.928			
1517-22-2	Phenanthrene-d10	454000	11.422			
1719-03-5	Chrysene-d12	224000	14.074			
1520-96-3	Perylene-d12	232000	15.568			

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:	Union Paving & Construction Company	Date Collected:	10/31/24
Project:	Rt. 10 Whippany	Date Received:	10/31/24
Client Sample ID:	RES-BUILDING-PAD-NO-2MSD	SDG No.:	P4663
Lab Sample ID:	P4663-08MSD	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	91.3
Sample Wt/Vol:	30.07 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
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
BF140210.D	1	11/01/24 09:43	11/01/24 14:53	PB164593

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	480		200	360	ug/Kg
108-95-2	Phenol	1900		90.6	190	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	1900		91.5	190	ug/Kg
95-57-8	2-Chlorophenol	2000		91.2	190	ug/Kg
95-48-7	2-Methylphenol	2000		88.1	190	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	2000		99.3	190	ug/Kg
98-86-2	Acetophenone	1800		95.0	190	ug/Kg
65794-96-9	3+4-Methylphenols	1900		87.2	360	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	1900		44.0	87.4	ug/Kg
67-72-1	Hexachloroethane	1900		90.7	190	ug/Kg
98-95-3	Nitrobenzene	1900		99.2	190	ug/Kg
78-59-1	Isophorone	2000		92.4	190	ug/Kg
88-75-5	2-Nitrophenol	2300		100	190	ug/Kg
105-67-9	2,4-Dimethylphenol	2200		100	190	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	1900		93.8	190	ug/Kg
120-83-2	2,4-Dichlorophenol	1900		82.5	190	ug/Kg
91-20-3	Naphthalene	1900		90.3	190	ug/Kg
106-47-8	4-Chloroaniline	820		90.3	190	ug/Kg
87-68-3	Hexachlorobutadiene	1900		91.0	190	ug/Kg
105-60-2	Caprolactam	1900		94.8	360	ug/Kg
59-50-7	4-Chloro-3-methylphenol	2000		84.7	190	ug/Kg
91-57-6	2-Methylnaphthalene	1900		90.2	190	ug/Kg
77-47-4	Hexachlorocyclopentadiene	6100	E	170	360	ug/Kg
88-06-2	2,4,6-Trichlorophenol	2000		78.0	190	ug/Kg
95-95-4	2,4,5-Trichlorophenol	1900		80.9	190	ug/Kg
92-52-4	1,1-Biphenyl	1900		95.5	190	ug/Kg
91-58-7	2-Chloronaphthalene	1800		91.0	190	ug/Kg
88-74-4	2-Nitroaniline	2200		100	190	ug/Kg
131-11-3	Dimethylphthalate	2000		89.3	190	ug/Kg

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Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	10/31/24
Project:	Rt. 10 Whippany	Date Received:	10/31/24
Client Sample ID:	RES-BUILDING-PAD-NO-2MSD	SDG No.:	P4663
Lab Sample ID:	P4663-08MSD	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	91.3
Sample Wt/Vol:	30.07 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
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
BF140210.D	1	11/01/24 09:43	11/01/24 14:53	PB164593

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	2000		94.5	190	ug/Kg
606-20-2	2,6-Dinitrotoluene	2100		90.9	190	ug/Kg
99-09-2	3-Nitroaniline	1300		97.5	190	ug/Kg
83-32-9	Acenaphthene	2100		88.6	190	ug/Kg
51-28-5	2,4-Dinitrophenol	4800	E	270	360	ug/Kg
100-02-7	4-Nitrophenol	4100	E	130	360	ug/Kg
132-64-9	Dibenzofuran	1900		92.2	190	ug/Kg
121-14-2	2,4-Dinitrotoluene	2300		94.2	190	ug/Kg
84-66-2	Diethylphthalate	2000		87.5	190	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	1900		93.5	190	ug/Kg
86-73-7	Fluorene	1900		93.4	190	ug/Kg
100-01-6	4-Nitroaniline	2100		120	190	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	2700		130	360	ug/Kg
86-30-6	n-Nitrosodiphenylamine	1900		89.2	190	ug/Kg
101-55-3	4-Bromophenyl-phenylether	1900		86.2	190	ug/Kg
118-74-1	Hexachlorobenzene	1900		92.9	190	ug/Kg
1912-24-9	Atrazine	2300		99.9	190	ug/Kg
87-86-5	Pentachlorophenol	3700	E	84.5	360	ug/Kg
85-01-8	Phenanthrene	1900		91.8	190	ug/Kg
120-12-7	Anthracene	2000		92.2	190	ug/Kg
86-74-8	Carbazole	1900		87.7	190	ug/Kg
84-74-2	Di-n-butylphthalate	2100		92.1	190	ug/Kg
206-44-0	Fluoranthene	1900		89.3	190	ug/Kg
129-00-0	Pyrene	2100		90.7	190	ug/Kg
85-68-7	Butylbenzylphthalate	3000	E	110	190	ug/Kg
91-94-1	3,3-Dichlorobenzidine	1700		110	360	ug/Kg
56-55-3	Benzo(a)anthracene	2000		88.2	190	ug/Kg
218-01-9	Chrysene	2000		86.9	190	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	3300	E	99.4	190	ug/Kg
117-84-0	Di-n-octyl phthalate	2600		120	360	ug/Kg
205-99-2	Benzo(b)fluoranthene	1900		88.6	190	ug/Kg

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Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	10/31/24
Project:	Rt. 10 Whippany	Date Received:	10/31/24
Client Sample ID:	RES-BUILDING-PAD-NO-2MSD	SDG No.:	P4663
Lab Sample ID:	P4663-08MSD	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	91.3
Sample Wt/Vol:	30.07 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
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
BF140210.D	1	11/01/24 09:43	11/01/24 14:53	PB164593

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	1900		90.3	190	ug/Kg
50-32-8	Benzo(a)pyrene	2100		100	190	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	1900		85.3	190	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	1900		88.7	190	ug/Kg
191-24-2	Benzo(g,h,i)perylene	1700		87.5	190	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	1900		94.8	190	ug/Kg
123-91-1	1,4-Dioxane	1500		120	190	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	2000		81.6	190	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	109		30 (18) - 130 (112)	73%	SPK: 150
13127-88-3	Phenol-d6	111		30 (15) - 130 (107)	74%	SPK: 150
4165-60-0	Nitrobenzene-d5	86.4		30 (18) - 130 (107)	86%	SPK: 100
321-60-8	2-Fluorobiphenyl	80.7		30 (20) - 130 (109)	81%	SPK: 100
118-79-6	2,4,6-Tribromophenol	120		30 (10) - 130 (116)	80%	SPK: 150
1718-51-0	Terphenyl-d14	94.8		30 (10) - 130 (105)	95%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	103000	6.887			
1146-65-2	Naphthalene-d8	410000	8.163			
15067-26-2	Acenaphthene-d10	235000	9.927			
1517-22-2	Phenanthrene-d10	418000	11.422			
1719-03-5	Chrysene-d12	200000	14.074			
1520-96-3	Perylene-d12	218000	15.568			

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
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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
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

CALIBRATION SUMMARY

Response Factor Report BNA_E

Method Path : Z:\svoasrv\HPCHEM1\BNA_E\Methods\
Method File : 8270-BE102824.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Tue Oct 29 01:26:30 2024
Response Via : Initial Calibration

Calibration Files
2.5 =BE101389.D 5 =BE101390.D 10 =BE101391.D 20 =BE101392.D 40 =BE101393.D 50 =BE101394.D 60 =BE101395.D 80 =BE1013
96.D

		Compound	2.5	5	10	20	40	50	60	80	Avg	%RSD
1)	I	1,4-Dichlorobenzen...	ISTD									
2)		1,4-Dioxane		0.471	0.463	0.454	0.421	0.400	0.392	0.379	0.426	8.76
3)		Pyridine		1.064	1.123	1.255	1.196	1.252	1.287	1.252	1.204	6.80
4)		n-Nitrosodimet...		0.459	0.440	0.454	0.479	0.473	0.488	0.468	0.466	3.45
5)	S	2-Fluorophenol		1.134	1.073	1.142	1.153	1.143	1.187	1.155	1.141	3.03
6)		Aniline		1.059	1.262	1.529	1.346	1.301	1.224	0.767	1.213	19.92
7)	S	Phenol-d6		1.450	1.475	1.558	1.629	1.594	1.727	1.643	1.582	6.15
8)		2-Chlorophenol		1.335	1.305	1.371	1.403	1.369	1.426	1.371	1.369	2.94
9)		Benzaldehyde		0.793	0.849	0.861	0.807	0.678	0.595		0.764	13.74
10)	C	Phenol		1.488	1.456	1.766	1.826	1.797	1.914	1.769	1.717	10.16
11)		bis(2-Chloroet...		1.513	1.401	1.245	1.477	1.322	1.408	1.492	1.408	6.93
12)		1,3-Dichlorobe...		1.563	1.523	1.508	1.488	1.424	1.443	1.382	1.476	4.25
13)	C	1,4-Dichlorobe...		1.624	1.534	1.546	1.505	1.447	1.484	1.409	1.507	4.66
14)		1,2-Dichlorobe...		1.553	1.488	1.502	1.490	1.433	1.472	1.388	1.475	3.56
15)		Benzyl Alcohol		0.704	0.797	0.979	1.061	1.013	1.059	0.990	0.943	14.61
16)		2,2'-oxybis(1-...		1.840	1.857	1.816	1.794	1.711	1.746	1.642	1.772	4.33
17)		2-Methylphenol		1.038	1.078	1.142	1.217	1.181	1.263	1.215	1.162	6.96
18)		Hexachloroethane		0.497	0.486	0.492	0.497	0.495	0.496	0.481	0.492	1.28
19)	P	n-Nitroso-di-n...	0.807	0.900	1.060	1.081	1.150	1.115	1.185	1.102	1.050	12.35
20)		3+4-Methylphenols		1.364	1.500	1.580	1.685	1.646	1.778	1.674	1.604	8.53
21)	I	Naphthalene-d8	ISTD									
22)		Acetophenone		0.427	0.447	0.467	0.481	0.449	0.462	0.446	0.454	3.79
23)	S	Nitrobenzene-d5		0.292	0.306	0.325	0.336	0.323	0.331	0.316	0.318	4.78
24)		Nitrobenzene		0.315	0.325	0.349	0.355	0.339	0.350	0.339	0.339	4.26
25)		Isophorone		0.533	0.601	0.624	0.665	0.639	0.655	0.632	0.621	7.13
26)	C	2-Nitrophenol		0.127	0.141	0.162	0.179	0.175	0.182	0.181	0.164	13.41
27)		2,4-Dimethylph...		0.196	0.194	0.207	0.215	0.206	0.215	0.211	0.206	4.19
28)		bis(2-Chloroet...		0.351	0.378	0.388	0.392	0.374	0.385	0.370	0.377	3.65
29)	C	2,4-Dichloroph...		0.257	0.268	0.285	0.297	0.287	0.305	0.297	0.285	6.00
30)		1,2,4-Trichlor...		0.325	0.311	0.315	0.314	0.304	0.307	0.299	0.311	2.71
31)		Naphthalene		1.092	1.040	1.039	1.045	0.982	0.999	0.936	1.019	5.00
32)		Benzoic acid			0.091	0.145	0.196	0.203	0.223	0.234	0.182	29.71
33)		4-Chloroaniline		0.321	0.355	0.373	0.398	0.364	0.365	0.305	0.354	8.87
34)	C	Hexachlorobuta...		0.193	0.185	0.187	0.187	0.179	0.180	0.176	0.184	3.26
35)		Caprolactam		0.077	0.093	0.109	0.119	0.118	0.126	0.124	0.109	16.48
36)	C	4-Chloro-3-met...		0.277	0.314	0.321	0.341	0.330	0.347	0.343	0.325	7.51
37)		2-Methylnaphth...		0.753	0.752	0.736	0.756	0.711	0.736	0.696	0.734	3.12
38)		1-Methylnaphth...		0.750	0.756	0.735	0.751	0.709	0.733	0.696	0.733	3.08

Method Path : Z:\svoasrv\HPCHEM1\BNA_E\Methods\
Method File : 8270-BE102824.M

39)	I	Acenaphthene-d10	----------ISTD----------								
40)		1,2,4,5-Tetrac...	0.522	0.493	0.515	0.512	0.491	0.499	0.481	0.502	2.96
41)	P	Hexachlorocycl...	0.153	0.150	0.179	0.177	0.173	0.168	0.162	0.166	6.85
42)	S	2,4,6-Tribromo...	0.329	0.341	0.358	0.366	0.355	0.359	0.346	0.351	3.59
43)	C	2,4,6-Trichlor...	0.310	0.325	0.352	0.369	0.353	0.360	0.353	0.346	6.01
44)		2,4,5-Trichlor...	0.356	0.372	0.401	0.415	0.402	0.418	0.411	0.396	5.93
45)	S	2-Fluorobiphenyl	1.359	1.275	1.283	1.226	1.114	1.072	0.938	1.181	12.39
46)		1,1'-Biphenyl	1.477	1.399	1.431	1.408	1.326	1.326	1.224	1.370	6.15
47)		2-Chloronaphth...	1.159	1.091	1.112	1.098	1.054	1.060	1.002	1.083	4.60
48)		2-Nitroaniline	0.214	0.243	0.295	0.318	0.318	0.329	0.322	0.291	15.45
49)		Acenaphthylene	1.613	1.605	1.656	1.677	1.586	1.597	1.473	1.601	4.07
50)		Dimethylphthalate	1.446	1.469	1.459	1.449	1.378	1.383	1.298	1.412	4.38
51)		2,6-Dinitrotol...	0.284	0.309	0.331	0.345	0.333	0.346	0.334	0.326	6.77
52)	C	Acenaphthene	1.120	1.080	1.073	1.075	1.016	1.017	0.936	1.045	5.79
53)		3-Nitroaniline	0.266	0.296	0.342	0.357	0.347	0.345	0.315	0.324	10.25
54)	P	2,4-Dinitrophenol		0.125	0.177	0.208	0.219	0.230	0.231	0.198	20.84
55)		Dibenzofuran	1.828	1.739	1.721	1.695	1.604	1.608	1.468	1.666	7.02
56)	P	4-Nitrophenol		0.219	0.291	0.311	0.318	0.324	0.318	0.297	13.34
57)		2,4-Dinitrotol...	0.344	0.407	0.454	0.481	0.480	0.495	0.481	0.449	12.18
58)		Fluorene	1.490	1.450	1.446	1.453	1.354	1.342	1.222	1.394	6.71
59)		2,3,4,6-Tetrac...	0.345	0.355	0.368	0.382	0.367	0.378	0.369	0.366	3.48
60)		Diethylphthalate	1.499	1.532	1.560	1.535	1.456	1.427	1.327	1.477	5.47
61)		4-Chlorophenyl...	0.737	0.713	0.705	0.707	0.676	0.673	0.631	0.692	5.05
62)		4-Nitroaniline	0.267	0.316	0.374	0.391	0.393	0.394	0.389	0.361	13.79
63)		Azobenzene	1.280	1.309	1.331	1.319	1.248	1.245	1.154	1.269	4.80
64)	I	Phenanthrene-d10	----------ISTD----------								
65)		4,6-Dinitro-2-...		0.086	0.108	0.123	0.125	0.131	0.133	0.118	15.15
66)	c	n-Nitrosodiphe...	0.542	0.548	0.545	0.553	0.516	0.520	0.489	0.530	4.33
67)		4-Bromophenyl-...	0.211	0.207	0.209	0.215	0.208	0.215	0.209	0.210	1.48
68)		Hexachlorobenzene	0.283	0.272	0.274	0.283	0.271	0.278	0.269	0.276	2.01
69)		Atrazine	0.182	0.179	0.160	0.184	0.109			0.163	19.39
70)	C	Pentachlorophenol	0.116	0.137	0.159	0.173	0.172	0.177	0.177	0.159	14.86
71)		Phenanthrene	1.068	1.023	1.012	0.991	0.912	0.896	0.801	0.958	9.62
72)		Anthracene	1.002	0.972	0.997	0.979	0.909	0.893	0.793	0.935	8.08
73)		Carbazole	1.010	0.987	1.033	0.995	0.939	0.914	0.820	0.957	7.62
74)		Di-n-butylphth...	1.018	1.088	1.221	1.136	1.058	0.985	0.867	1.053	10.73
75)	C	Fluoranthene	1.320	1.268	1.306	1.199	1.102	1.043	0.903	1.163	13.27
76)	I	Chrysene-d12	----------ISTD----------								
77)		Benzidine	0.236	0.285	0.253	0.347	0.228	0.198	0.230	0.254	19.22
78)		Pyrene	1.176	1.206	1.184	1.174	1.052	1.016	0.890	1.100	10.69
79)	S	Terphenyl-d14	1.036	1.023	0.970	0.841	0.686	0.657		0.869	19.31
80)		Butylbenzylpht...	0.443	0.467	0.515	0.510	0.494	0.490	0.455	0.482	5.73
81)		Benzo(a)anthra...	1.277	1.238	1.243	1.174	1.047	1.010	0.879	1.124	13.18
82)		3,3'-Dichlorob...	0.404	0.438	0.470	0.481	0.450	0.444	0.396	0.440	7.11
83)		Chrysene	1.266	1.225	1.201	1.110	1.005	0.962	0.838	1.087	14.51
84)		Bis(2-ethylhex...	0.550	0.608	0.705	0.698	0.672	0.659	0.591	0.641	9.15
85)	c	Di-n-octyl pht...	0.987	1.057	1.209	1.137	1.053	1.032	0.883	1.051	9.92

Method Path : Z:\svoasrv\HPCHEM1\BNA_E\Methods\
Method File : 8270-BE102824.M

86)	I	Perylene-d12	----------ISTD----------							
87)		Indeno(1,2,3-c...	1.390	1.352	1.390	1.394	1.315	1.315	1.214	1.338	4.83
88)		Benzo(b)fluora...	1.076	1.113	1.100	1.110	1.023	1.000	0.873	1.042	8.29
89)		Benzo(k)fluora...	1.126	1.042	1.087	1.015	0.897	0.875	0.774	0.974	13.13
90)	C	Benzo(a)pyrene	0.935	0.933	0.961	0.966	0.899	0.890	0.796	0.912	6.37
91)		Dibenzo(a,h)an...	1.130	1.125	1.169	1.170	1.089	1.083	0.977	1.106	6.00
92)		Benzo(g,h,i)pe...	1.162	1.130	1.155	1.179	1.125	1.152	1.075	1.140	2.98

(#) = Out of Range

Response Factor Report BNA_F

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF101824.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Fri Oct 18 15:07:50 2024
Response Via : Initial Calibration

Calibration Files
2.5 =BF139844.D 5 =BF139845.D 10 =BF139846.D 20 =BF139847.D 40 =BF139848.D 50 =BF139849.D 60 =BF139850.D 80 =BF1398
51.D

		Compound	2.5	5	10	20	40	50	60	80	Avg	%RSD
1)	I	1,4-Dichlorobenzen...	----------	ISTD	----------							
2)		1,4-Dioxane		0.651	0.625	0.603	0.591	0.571	0.581	0.548	0.596	5.74
3)		Pyridine		1.622	1.570	1.522	1.504	1.386	1.406	1.326	1.476	7.26
4)		n-Nitrosodimet...		0.815	0.800	0.799	0.806	0.782	0.794	0.757	0.793	2.39
5)	S	2-Fluorophenol		1.465	1.398	1.331	1.278	1.179	1.186	1.106	1.278	10.10
6)		Aniline		1.673	1.649	1.618	1.582	1.471	1.479	1.324	1.542	8.05
7)	S	Phenol-d6		1.900	1.818	1.709	1.647	1.538	1.539	1.432	1.655	10.06
8)		2-Chlorophenol		1.503	1.422	1.358	1.310	1.212	1.221	1.116	1.306	10.24
9)		Benzaldehyde			1.137	1.042	0.940	0.873	0.853	0.740	0.931	15.22
10)	C	Phenol		1.952	1.832	1.760	1.712	1.583	1.601	1.502	1.706	9.19
11)		bis(2-Chloroet...		1.470	1.423	1.359	1.294	1.251	1.249	1.183	1.319	7.82
12)		1,3-Dichlorobe...		1.718	1.656	1.544	1.499	1.392	1.391	1.294	1.499	10.19
13)	C	1,4-Dichlorobe...		1.723	1.641	1.558	1.487	1.392	1.391	1.291	1.498	10.19
14)		1,2-Dichlorobe...		1.660	1.579	1.478	1.379	1.273	1.267	1.149	1.398	13.15
15)		Benzyl Alcohol		1.355	1.299	1.257	1.213	1.154	1.146	1.071	1.214	8.07
16)		2,2'-oxybis(1-...		2.524	2.409	2.353	2.255	2.117	2.115	1.964	2.248	8.69
17)		2-Methylphenol		1.264	1.164	1.134	1.114	1.053	1.063	1.004	1.114	7.69
18)		Hexachloroethane		0.583	0.571	0.549	0.541	0.507	0.511	0.477	0.534	7.06
19)	P	n-Nitroso-di-n...	1.105	1.141	1.066	1.025	0.974	0.921	0.927	0.869	1.004	9.63
20)		3+4-Methylphenols		1.678	1.573	1.520	1.418	1.309	1.300	1.173	1.424	12.41
21)	I	Naphthalene-d8	----------	ISTD	----------							
22)		Acetophenone		0.578	0.533	0.516	0.481	0.452	0.454	0.414	0.490	11.43
23)	S	Nitrobenzene-d5		0.365	0.365	0.372	0.371	0.354	0.357	0.342	0.361	2.92
24)		Nitrobenzene		0.417	0.402	0.408	0.403	0.383	0.388	0.370	0.396	4.10
25)		Isophorone		0.755	0.709	0.702	0.679	0.652	0.660	0.637	0.685	5.90
26)	C	2-Nitrophenol		0.124	0.137	0.150	0.157	0.158	0.161	0.157	0.149	9.22
27)		2,4-Dimethylph...		0.285	0.259	0.256	0.248	0.237	0.234	0.223	0.249	8.07
28)		bis(2-Chloroet...		0.468	0.440	0.432	0.412	0.394	0.390	0.369	0.415	8.22
29)	C	2,4-Dichloroph...		0.308	0.297	0.293	0.283	0.272	0.274	0.257	0.283	6.17
30)		1,2,4-Trichlor...		0.351	0.331	0.325	0.315	0.298	0.298	0.279	0.314	7.68
31)		Naphthalene		1.209	1.121	1.091	1.023	0.958	0.944	0.875	1.031	11.23
32)		Benzoic acid			0.175	0.207	0.220	0.231	0.235	0.235	0.217	10.69
33)		4-Chloroaniline		0.397	0.382	0.368	0.351	0.332	0.326	0.306	0.352	9.26
34)	C	Hexachlorobuta...		0.224	0.206	0.203	0.197	0.185	0.187	0.177	0.197	7.96
35)		Caprolactam		0.092	0.092	0.092	0.092	0.088	0.088	0.086	0.090	2.85
36)	C	4-Chloro-3-met...		0.341	0.328	0.324	0.315	0.299	0.303	0.287	0.314	6.03
37)		2-Methylnaphth...		0.740	0.689	0.666	0.621	0.587	0.583	0.537	0.632	11.11
38)		1-Methylnaphth...		0.726	0.683	0.655	0.612	0.569	0.567	0.526	0.620	11.55

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF101824.M

39)	I	Acenaphthene-d10	----------ISTD----------								
40)		1,2,4,5-Tetrac...	0.609	0.579	0.562	0.537	0.512	0.506	0.472	0.540	8.72
41)	P	Hexachlorocycl...	0.185	0.193	0.198	0.198	0.186	0.185	0.169	0.188	5.28
42)	S	2,4,6-Tribromo...	0.201	0.196	0.193	0.188	0.179	0.180	0.173	0.187	5.47
43)	C	2,4,6-Trichlor...	0.405	0.382	0.400	0.387	0.363	0.383	0.354	0.382	4.80
44)		2,4,5-Trichlor...	0.426	0.425	0.398	0.401	0.381	0.369	0.359	0.394	6.58
45)	S	2-Fluorobiphenyl	1.512	1.396	1.280	1.162	1.088	1.060	0.973	1.210	16.05
46)		1,1'-Biphenyl	1.640	1.536	1.483	1.379	1.285	1.262	1.161	1.392	12.18
47)		2-Chloronaphth...	1.288	1.225	1.164	1.111	1.048	1.040	0.973	1.121	9.95
48)		2-Nitroaniline	0.299	0.318	0.353	0.365	0.354	0.362	0.349	0.343	7.20
49)		Acenaphthylene	1.854	1.756	1.717	1.615	1.507	1.505	1.394	1.621	10.06
50)		Dimethylphthalate	1.410	1.344	1.283	1.237	1.172	1.163	1.110	1.246	8.60
51)		2,6-Dinitrotol...	0.256	0.266	0.278	0.280	0.273	0.274	0.260	0.270	3.41
52)	C	Acenaphthene	1.200	1.136	1.089	1.044	0.977	0.983	0.913	1.049	9.55
53)		3-Nitroaniline	0.270	0.275	0.296	0.292	0.276	0.282	0.256	0.278	4.84
54)	P	2,4-Dinitrophenol		0.056	0.077	0.101	0.101	0.113	0.112	0.093	23.89
55)		Dibenzofuran	1.767	1.659	1.579	1.486	1.389	1.375	1.278	1.505	11.52
56)	P	4-Nitrophenol	0.187	0.207	0.225	0.232	0.219	0.220	0.208	0.214	6.84
57)		2,4-Dinitrotol...	0.280	0.314	0.337	0.356	0.344	0.351	0.338	0.332	7.94
58)		Fluorene	1.409	1.309	1.201	1.110	1.029	1.021	0.944	1.146	14.68
59)		2,3,4,6-Tetrac...	0.334	0.322	0.326	0.310	0.296	0.293	0.281	0.309	6.33
60)		Diethylphthalate	1.366	1.308	1.267	1.214	1.165	1.161	1.080	1.223	7.99
61)		4-Chlorophenyl...	0.698	0.638	0.617	0.569	0.526	0.520	0.484	0.579	13.14
62)		4-Nitroaniline	0.249	0.259	0.270	0.275	0.263	0.269	0.254	0.263	3.65
63)		Azobenzene	1.459	1.385	1.355	1.306	1.216	1.212	1.143	1.297	8.62
64)	I	Phenanthrene-d10	----------ISTD----------								
65)		4,6-Dinitro-2-...		0.055	0.072	0.087	0.090	0.092	0.093	0.082	18.60
66)	c	n-Nitrosodiphe...	0.672	0.641	0.621	0.595	0.568	0.561	0.533	0.599	8.14
67)		4-Bromophenyl-...	0.230	0.217	0.211	0.202	0.197	0.196	0.189	0.206	6.98
68)		Hexachlorobenzene	0.258	0.245	0.237	0.231	0.217	0.221	0.212	0.232	7.20
69)		Atrazine	0.189	0.175	0.156	0.175	0.135	0.153	0.151	0.162	11.36
70)	C	Pentachlorophenol	0.118	0.137	0.148	0.152	0.145	0.144	0.140	0.141	8.04
71)		Phenanthrene	1.121	1.035	0.994	0.933	0.863	0.860	0.807	0.945	11.79
72)		Anthracene	1.082	1.014	0.972	0.913	0.851	0.833	0.787	0.922	11.53
73)		Carbazole	1.002	0.964	0.923	0.846	0.776	0.772	0.717	0.857	12.64
74)		Di-n-butylphth...	1.104	1.071	1.062	1.014	0.923	0.909	0.850	0.990	9.77
75)	C	Fluoranthene	1.149	1.108	1.036	0.943	0.842	0.835	0.772	0.955	15.34
76)	I	Chrysene-d12	----------ISTD----------								
77)		Benzidine	0.457	0.461	0.293	0.366	0.276	0.203	0.246	0.329	30.86
78)		Pyrene	1.892	1.828	1.900	1.805	1.685	1.649	1.496	1.751	8.43
79)	S	Terphenyl-d14	1.381	1.335	1.340	1.244	1.154	1.121	1.018	1.227	10.96
80)		Butylbenzylpht...	0.490	0.513	0.536	0.555	0.535	0.531	0.514	0.525	3.99
81)		Benzo(a)anthra...	1.425	1.355	1.329	1.331	1.267	1.237	1.169	1.302	6.48
82)		3,3'-Dichlorob...	0.368	0.372	0.390	0.387	0.374	0.382	0.384	0.380	2.15
83)		Chrysene	1.325	1.244	1.234	1.167	1.134	1.151	1.101	1.194	6.52
84)		Bis(2-ethylhex...	0.520	0.539	0.577	0.626	0.620	0.626	0.614	0.589	7.48
85)	c	Di-n-octyl pht...		0.786	0.930	1.135	1.182	1.207	1.186	1.071	16.14

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF101824.M

86)	I	Perylene-d12	----------ISTD----------							
87)		Indeno(1,2,3-c...	1.209	1.261	1.307	1.352	1.299	1.326	1.253	1.287	3.77
88)		Benzo(b)fluora...	1.317	1.240	1.319	1.196	1.105	1.239	1.111	1.218	7.15
89)		Benzo(k)fluora...	1.213	1.177	0.992	1.066	1.030	0.929	0.947	1.051	10.42
90)	C	Benzo(a)pyrene	1.030	1.024	1.018	1.025	0.974	0.999	0.947	1.002	3.12
91)		Dibenzo(a,h)an...	1.021	1.064	1.103	1.120	1.083	1.085	1.036	1.073	3.31
92)		Benzo(g,h,i)pe...	1.030	1.046	1.090	1.128	1.081	1.095	1.035	1.072	3.37

(#) = Out of Range

Alliance TECHNICAL GROUP
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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: UNIO02

Lab Code: CHEM Case No.: P4663 SAS No.: P4663 SDG No.: P4663

Instrument ID: BNA_E Calibration Date/Time: 11/01/2024 09:41

Lab File ID: BE101444.D Init. Calib. Date(s): 10/28/2024 10/28/2024

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 11:44 16:01

GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.141	1.168		2.4	
Benzaldehyde	0.764	0.819		7.2	
Phenol-d6	1.582	1.589		0.4	
Phenol	1.717	1.748		1.8	20.0
bis(2-Chloroethyl)ether	1.408	1.191		-15.4	
2-Chlorophenol	1.369	1.347		-1.6	
2-Methylphenol	1.162	1.098		-5.5	
2,2-oxybis(1-Chloropropane)	1.772	1.597		-9.9	
Acetophenone	0.454	0.460		1.3	
3+4-Methylphenols	1.604	1.533		-4.4	
n-Nitroso-di-n-propylamine	1.050	1.041	0.050	-0.9	
Nitrobenzene-d5	0.318	0.323		1.6	
Hexachloroethane	0.492	0.490		-0.4	
Nitrobenzene	0.339	0.336		-0.9	
Isophorone	0.621	0.619		-0.3	
2-Nitrophenol	0.164	0.178		8.5	20.0
2,4-Dimethylphenol	0.206	0.207		0.5	
bis(2-Chloroethoxy)methane	0.377	0.366		-2.9	
2,4-Dichlorophenol	0.285	0.285		0.0	20.0
Naphthalene	1.019	0.982		-3.6	
4-Chloroaniline	0.354	0.374		5.7	
Hexachlorobutadiene	0.184	0.184		0.0	20.0
Caprolactam	0.109	0.122		11.9	
4-Chloro-3-methylphenol	0.325	0.315		-3.1	20.0
2-Methylnaphthalene	0.734	0.694		-5.4	
Hexachlorocyclopentadiene	0.166	0.170	0.050	2.4	
2,4,6-Trichlorophenol	0.346	0.360		4.0	20.0
2-Fluorobiphenyl	1.181	1.198		1.4	
2,4,5-Trichlorophenol	0.396	0.397		0.3	
1,1-Biphenyl	1.370	1.350		-1.5	
2-Chloronaphthalene	1.083	1.070		-1.2	
2-Nitroaniline	0.291	0.315		8.2	
Dimethylphthalate	1.412	1.430		1.3	
Acenaphthylene	1.601	1.626		1.6	
2,6-Dinitrotoluene	0.326	0.333		2.1	
3-Nitroaniline	0.324	0.365		12.7	
Acenaphthene	1.045	1.027		-1.7	20.0
2,4-Dinitrophenol	0.198	0.212	0.050	7.1	
4-Nitrophenol	0.297	0.320	0.050	7.7	

Form VII SV-1

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: UNIO02

Lab Code: CHEM Case No.: P4663 SAS No.: P4663 SDG No.: P4663

Instrument ID: BNA_E Calibration Date/Time: 11/01/2024 09:41

Lab File ID: BE101444.D Init. Calib. Date(s): 10/28/2024 10/28/2024

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 11:44 16:01

GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Dibenzofuran	1.666	1.645		-1.3	
2,4-Dinitrotoluene	0.449	0.492		9.6	
Diethylphthalate	1.477	1.543		4.5	
4-Chlorophenyl-phenylether	0.692	0.681		-1.6	
Fluorene	1.394	1.395		0.1	
4-Nitroaniline	0.361	0.412		14.1	
4,6-Dinitro-2-methylphenol	0.118	0.127		7.6	
n-Nitrosodiphenylamine	0.530	0.510		-3.8	20.0
2,4,6-Tribromophenol	0.351	0.374		6.6	
4-Bromophenyl-phenylether	0.210	0.202		-3.8	
Hexachlorobenzene	0.276	0.267		-3.3	
Atrazine	0.163	0.179		9.8	
Pentachlorophenol	0.159	0.165		3.8	20.0
Phenanthrene	0.958	0.957		-0.1	
Anthracene	0.935	0.956		2.2	
Carbazole	0.957	1.014		6.0	
Di-n-butylphthalate	1.053	1.233		17.1	
Fluoranthene	1.163	1.281		10.1	20.0
Pyrene	1.100	1.127		2.5	
Terphenyl-d14	0.869	0.865		-0.5	
Butylbenzylphthalate	0.482	0.515		6.8	
3,3-Dichlorobenzidine	0.440	0.460		4.5	
Benzo(a)anthracene	1.124	1.167		3.8	
Chrysene	1.087	1.107		1.8	
Bis(2-ethylhexyl)phthalate	0.641	0.734		14.5	
Di-n-octyl phthalate	1.051	1.226		16.7	20.0
Benzo(b)fluoranthene	1.042	1.078		3.5	
Benzo(k)fluoranthene	0.974	0.983		0.9	
Benzo(a)pyrene	0.912	0.928		1.8	20.0
Indeno(1,2,3-cd)pyrene	1.338	1.358		1.5	
Dibenzo(a,h)anthracene	1.106	1.131		2.3	
Benzo(g,h,i)perylene	1.140	1.141		0.1	
1,2,4,5-Tetrachlorobenzene	0.502	0.501		-0.2	
1,4-Dioxane	0.426	0.428		0.5	20.0
2,3,4,6-Tetrachlorophenol	0.366	0.372		1.6	

All other compounds must meet a minimum RRF of 0.010.

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SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: UNIO02

Lab Code: CHEM Case No.: P4663 SAS No.: P4663 SDG No.: P4663

Instrument ID: BNA_E Calibration Date/Time: 11/04/2024 12:49

Lab File ID: BE101453.D Init. Calib. Date(s): 10/28/2024 10/28/2024

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 11:44 16:01

GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.141	1.142		0.1	
Benzaldehyde	0.764	0.860		12.6	
Phenol-d6	1.582	1.573		-0.6	
Phenol	1.717	1.726		0.5	20.0
bis(2-Chloroethyl)ether	1.408	1.331		-5.5	
2-Chlorophenol	1.369	1.336		-2.4	
2-Methylphenol	1.162	1.141		-1.8	
2,2-oxybis(1-Chloropropane)	1.772	1.654		-6.7	
Acetophenone	0.454	0.449		-1.1	
3+4-Methylphenols	1.604	1.572		-2.0	
n-Nitroso-di-n-propylamine	1.050	1.065	0.050	1.4	
Nitrobenzene-d5	0.318	0.321		0.9	
Hexachloroethane	0.492	0.496		0.8	
Nitrobenzene	0.339	0.336		-0.9	
Isophorone	0.621	0.634		2.1	
2-Nitrophenol	0.164	0.179		9.1	20.0
2,4-Dimethylphenol	0.206	0.206		0.0	
bis(2-Chloroethoxy)methane	0.377	0.376		-0.3	
2,4-Dichlorophenol	0.285	0.289		1.4	20.0
Naphthalene	1.019	0.990		-2.8	
4-Chloroaniline	0.354	0.367		3.7	
Hexachlorobutadiene	0.184	0.188		2.2	20.0
Caprolactam	0.109	0.110		0.9	
4-Chloro-3-methylphenol	0.325	0.320		-1.5	20.0
2-Methylnaphthalene	0.734	0.708		-3.5	
Hexachlorocyclopentadiene	0.166	0.176	0.050	6.0	
2,4,6-Trichlorophenol	0.346	0.363		4.9	20.0
2-Fluorobiphenyl	1.181	1.206		2.1	
2,4,5-Trichlorophenol	0.396	0.409		3.3	
1,1-Biphenyl	1.370	1.373		0.2	
2-Chloronaphthalene	1.083	1.082		-0.1	
2-Nitroaniline	0.291	0.312		7.2	
Dimethylphthalate	1.412	1.388		-1.7	
Acenaphthylene	1.601	1.623		1.4	
2,6-Dinitrotoluene	0.326	0.329		0.9	
3-Nitroaniline	0.324	0.338		4.3	
Acenaphthene	1.045	1.019		-2.5	20.0
2,4-Dinitrophenol	0.198	0.202	0.050	2.0	
4-Nitrophenol	0.297	0.287	0.050	-3.4	

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SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: UNIO02

Lab Code: CHEM Case No.: P4663 SAS No.: P4663 SDG No.: P4663

Instrument ID: BNA_E Calibration Date/Time: 11/04/2024 12:49

Lab File ID: BE101453.D Init. Calib. Date(s): 10/28/2024 10/28/2024

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 11:44 16:01

GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Dibenzofuran	1.666	1.629		-2.2	
2,4-Dinitrotoluene	0.449	0.464		3.3	
Diethylphthalate	1.477	1.453		-1.6	
4-Chlorophenyl-phenylether	0.692	0.673		-2.7	
Fluorene	1.394	1.357		-2.7	
4-Nitroaniline	0.361	0.363		0.6	
4,6-Dinitro-2-methylphenol	0.118	0.126		6.8	
n-Nitrosodiphenylamine	0.530	0.534		0.8	20.0
2,4,6-Tribromophenol	0.351	0.356		1.4	
4-Bromophenyl-phenylether	0.210	0.215		2.4	
Hexachlorobenzene	0.276	0.283		2.5	
Atrazine	0.163	0.168		3.1	
Pentachlorophenol	0.159	0.167		5.0	20.0
Phenanthrene	0.958	0.959		0.1	
Anthracene	0.935	0.954		2.0	
Carbazole	0.957	0.955		-0.2	
Di-n-butylphthalate	1.053	1.162		10.4	
Fluoranthene	1.163	1.186		2.0	20.0
Pyrene	1.100	1.154		4.9	
Terphenyl-d14	0.869	0.859		-1.2	
Butylbenzylphthalate	0.482	0.516		7.1	
3,3-Dichlorobenzidine	0.440	0.461		4.8	
Benzo(a)anthracene	1.124	1.162		3.4	
Chrysene	1.087	1.095		0.7	
Bis(2-ethylhexyl)phthalate	0.641	0.746		16.4	
Di-n-octyl phthalate	1.051	1.236		17.6	20.0
Benzo(b)fluoranthene	1.042	1.060		1.7	
Benzo(k)fluoranthene	0.974	0.991		1.7	
Benzo(a)pyrene	0.912	0.933		2.3	20.0
Indeno(1,2,3-cd)pyrene	1.338	1.355		1.3	
Dibenzo(a,h)anthracene	1.106	1.127		1.9	
Benzo(g,h,i)perylene	1.140	1.151		1.0	
1,2,4,5-Tetrachlorobenzene	0.502	0.515		2.6	
1,4-Dioxane	0.426	0.408		-4.2	20.0
2,3,4,6-Tetrachlorophenol	0.366	0.365		-0.3	

All other compounds must meet a minimum RRF of 0.010.

Form VII SV-1

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SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: UNIO02

Lab Code: CHEM Case No.: P4663 SAS No.: P4663 SDG No.: P4663

Instrument ID: BNA_F Calibration Date/Time: 11/01/2024 09:22

Lab File ID: BF140200.D Init. Calib. Date(s): 10/18/2024 10/18/2024

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 10:27 13:46

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.278	1.245		-2.7	
Benzaldehyde	0.931	0.962		3.3	
Phenol-d6	1.655	1.646		-0.5	
Phenol	1.706	1.707		0.1	20.0
bis(2-Chloroethyl)ether	1.319	1.336		1.3	
2-Chlorophenol	1.306	1.308		0.2	
2-Methylphenol	1.114	1.140		2.3	
2,2-oxybis(1-Chloropropane)	2.248	2.316		3.0	
Acetophenone	0.490	0.483		-1.4	
3+4-Methylphenols	1.424	1.392		-2.2	
n-Nitroso-di-n-propylamine	1.004	0.996	0.050	-0.8	
Nitrobenzene-d5	0.361	0.401		11.1	
Hexachloroethane	0.534	0.561		5.1	
Nitrobenzene	0.396	0.419		5.8	
Isophorone	0.685	0.699		2.0	
2-Nitrophenol	0.149	0.184		23.5	20.0
2,4-Dimethylphenol	0.249	0.239		-4.0	
bis(2-Chloroethoxy)methane	0.415	0.418		0.7	
2,4-Dichlorophenol	0.283	0.288		1.8	20.0
Naphthalene	1.031	1.035		0.4	
4-Chloroaniline	0.352	0.334		-5.1	
Hexachlorobutadiene	0.197	0.205		4.1	20.0
Caprolactam	0.090	0.100		11.1	
4-Chloro-3-methylphenol	0.314	0.326		3.8	20.0
2-Methylnaphthalene	0.632	0.643		1.7	
Hexachlorocyclopentadiene	0.188	0.186	0.050	-1.1	
2,4,6-Trichlorophenol	0.382	0.399		4.4	20.0
2-Fluorobiphenyl	1.210	1.197		-1.1	
2,4,5-Trichlorophenol	0.394	0.403		2.3	
1,1-Biphenyl	1.392	1.370		-1.6	
2-Chloronaphthalene	1.121	1.119		-0.2	
2-Nitroaniline	0.343	0.409		19.2	
Dimethylphthalate	1.246	1.300		4.3	
Acenaphthylene	1.621	1.616		-0.3	
2,6-Dinitrotoluene	0.270	0.305		13.0	
3-Nitroaniline	0.278	0.318		14.4	
Acenaphthene	1.049	1.094		4.3	20.0
2,4-Dinitrophenol	0.093	0.177	0.050	90.3	
4-Nitrophenol	0.214	0.257	0.050	20.1	

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SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: UNIO02

Lab Code: CHEM Case No.: P4663 SAS No.: P4663 SDG No.: P4663

Instrument ID: BNA_F Calibration Date/Time: 11/01/2024 09:22

Lab File ID: BF140200.D Init. Calib. Date(s): 10/18/2024 10/18/2024

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 10:27 13:46

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Dibenzofuran	1.505	1.497		-0.5	
2,4-Dinitrotoluene	0.332	0.409		23.2	
Diethylphthalate	1.223	1.283		4.9	
4-Chlorophenyl-phenylether	0.579	0.592		2.2	
Fluorene	1.146	1.175		2.5	
4-Nitroaniline	0.263	0.334		27.0	
4,6-Dinitro-2-methylphenol	0.082	0.129		57.3	
n-Nitrosodiphenylamine	0.599	0.588		-1.8	20.0
2,4,6-Tribromophenol	0.187	0.211		12.8	
4-Bromophenyl-phenylether	0.206	0.207		0.5	
Hexachlorobenzene	0.232	0.231		-0.4	
Atrazine	0.162	0.166		2.5	
Pentachlorophenol	0.141	0.159		12.8	20.0
Phenanthrene	0.945	0.934		-1.2	
Anthracene	0.922	0.926		0.4	
Carbazole	0.857	0.877		2.3	
Di-n-butylphthalate	0.990	1.074		8.5	
Fluoranthene	0.955	1.027		7.5	20.0
Pyrene	1.751	1.637		-6.5	
Terphenyl-d14	1.227	1.172		-4.5	
Butylbenzylphthalate	0.525	0.656		25.0	
3,3-Dichlorobenzidine	0.380	0.424		11.6	
Benzo(a)anthracene	1.302	1.323		1.6	
Chrysene	1.194	1.237		3.6	
Bis(2-ethylhexyl)phthalate	0.589	0.869		47.5	
Di-n-octyl phthalate	1.071	1.344		25.5	20.0
Benzo(b)fluoranthene	1.218	1.286		5.6	
Benzo(k)fluoranthene	1.051	1.245		18.5	
Benzo(a)pyrene	1.002	1.068		6.6	20.0
Indeno(1,2,3-cd)pyrene	1.287	1.255		-2.5	
Dibenzo(a,h)anthracene	1.073	1.035		-3.5	
Benzo(g,h,i)perylene	1.072	1.055		-1.6	
1,2,4,5-Tetrachlorobenzene	0.540	0.549		1.7	
1,4-Dioxane	0.596	0.508		-14.8	20.0
2,3,4,6-Tetrachlorophenol	0.309	0.324		4.9	

All other compounds must meet a minimum RRF of 0.010.

SAMPLE RAW DATA

Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE110124\
Data File : BE101450.D
Acq On : 1 Nov 2024 15:45
Operator : RC/JU
Sample : P4663-02
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Nov 01 17:22:19 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 29 01:26:30 2024
Response via : Initial Calibration

Instrument :
BNA_E
ClientSampleId :
TENNANT-PAD-2-3-STOCKPILE

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 11/04/2024
Supervised By :mohammad ahmed 11/04/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.573	152	90671	20.000	ng	0.00
21) Naphthalene-d8	10.340	136	396894	20.000	ng	0.00
39) Acenaphthene-d10	14.182	164	265226	20.000	ng	0.00
64) Phenanthrene-d10	16.920	188	598076	20.000	ng	0.00
76) Chrysene-d12	21.080	240	668565	20.000	ng	0.00
86) Perylene-d12	23.378	264	876363	20.000	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.322	112	536510	103.707	ng	0.00
7) Phenol-d6	6.950	99	708836	98.815	ng	0.00
23) Nitrobenzene-d5	8.783	82	408608	64.663	ng	0.00
42) 2,4,6-Tribromophenol	15.692	330	468925	100.875	ng	0.00
45) 2-Fluorobiphenyl	12.802	172	1073639	68.555	ng	0.00
79) Terphenyl-d14	19.517	244	2147495	73.928	ng	0.00
Target Compounds						Qvalue
71) Phenanthrene	16.962	178	63526	2.218	ng	98
75) Fluoranthene	18.965	202	169582	4.876	ng	96
78) Pyrene	19.335	202	156114	4.246	ng	96
81) Benzo(a)anthracene	21.063	228	96709	2.574	ng	97
83) Chrysene	21.116	228	102572	2.823	ng	97
88) Benzo(b)fluoranthene	22.661	252	152832m	3.346	ng	
90) Benzo(a)pyrene	23.266	252	107140	2.682	ng	# 90

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

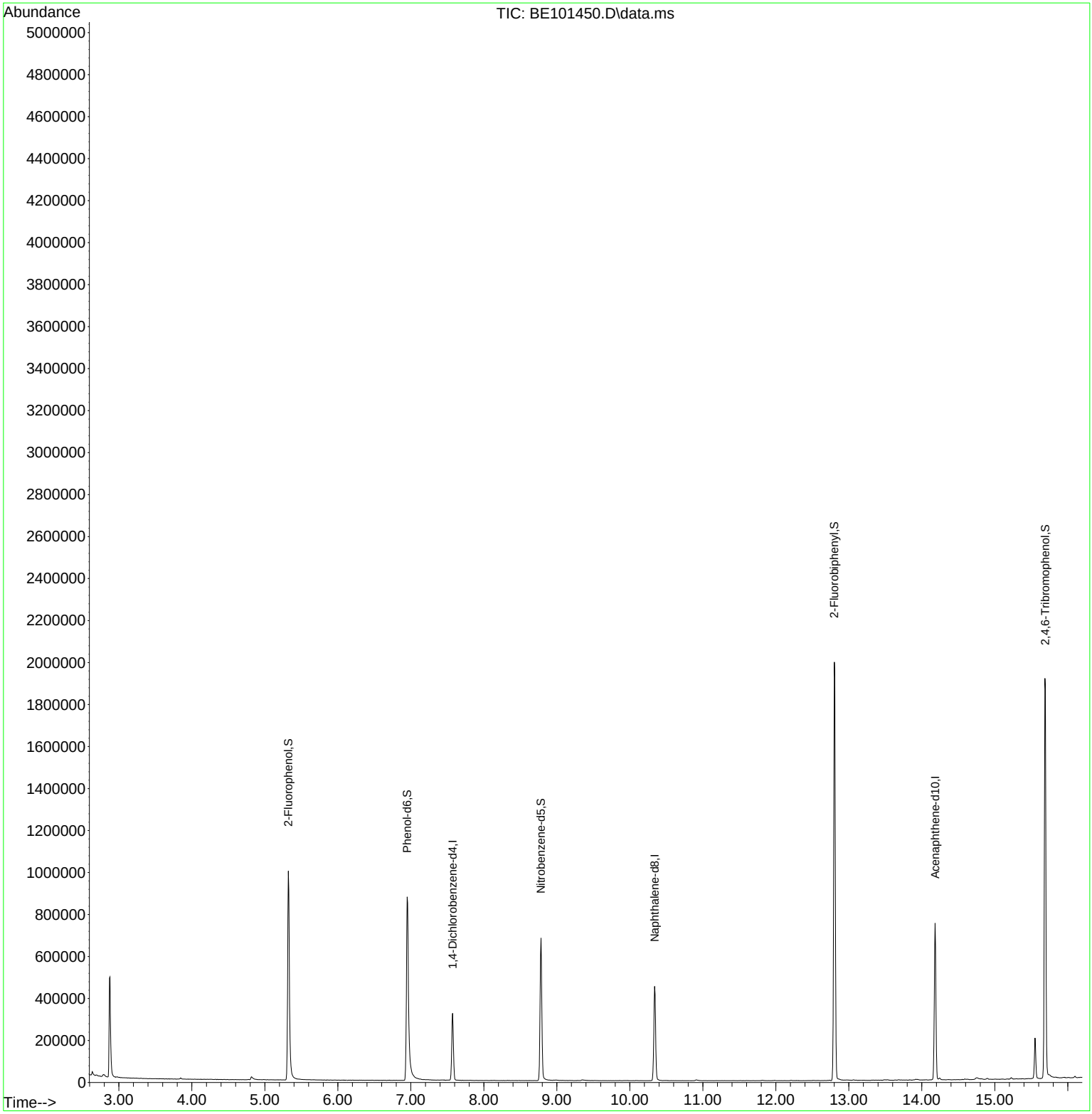
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Acq On : 1 Nov 2024 15:45
Operator : RC/JU
Sample : P4663-02
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Nov 01 17:22:19 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 29 01:26:30 2024
Response via : Initial Calibration

Instrument :
BNA_E
ClientSampleId :
TENNANT-PAD-2-3-STOCKPILE

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/04/2024
Supervised By :mohammad ahmed 11/04/2024



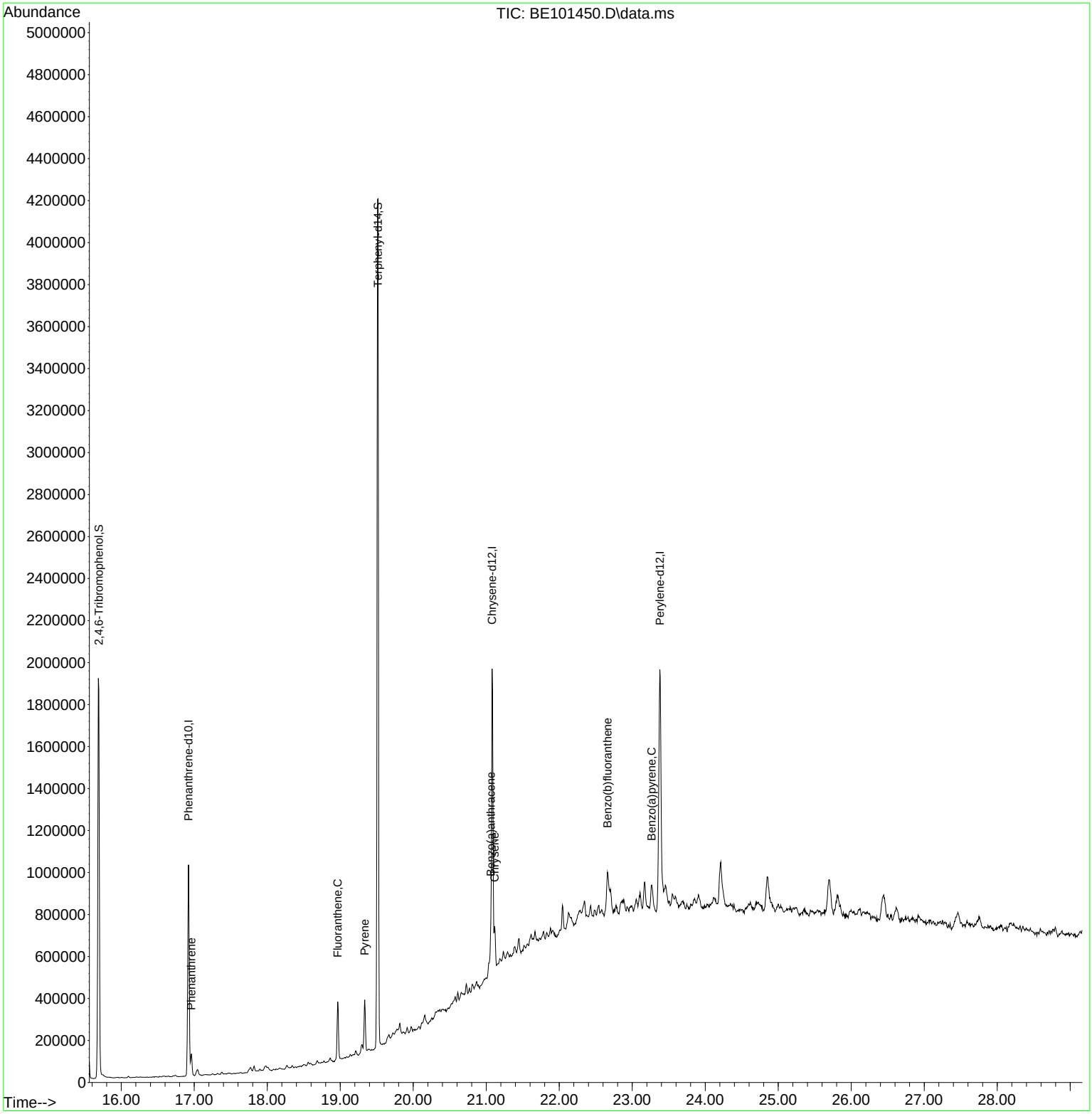
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Operator : RC/JU
Sample : P4663-02
Misc :
ALS Vial : 9 Sample Multiplier: 1

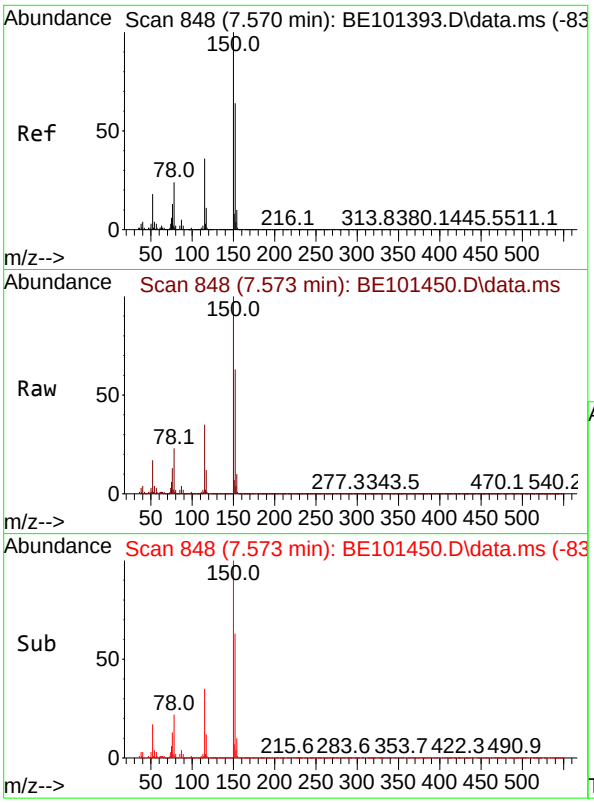
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 29 01:26:30 2024
Response via : Initial Calibration

Instrument :
BNA_E
ClientSampleId :
TENNANT-PAD-2-3-STOCKPILE

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/04/2024
Supervised By :mohammad ahmed 11/04/2024

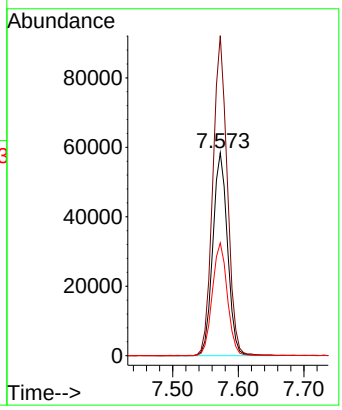




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.573 min Scan# 84
Delta R.T. 0.003 min
Lab File: BE101450.D
Acq: 1 Nov 2024 15:45

Tgt Ion:152 Resp: 9067

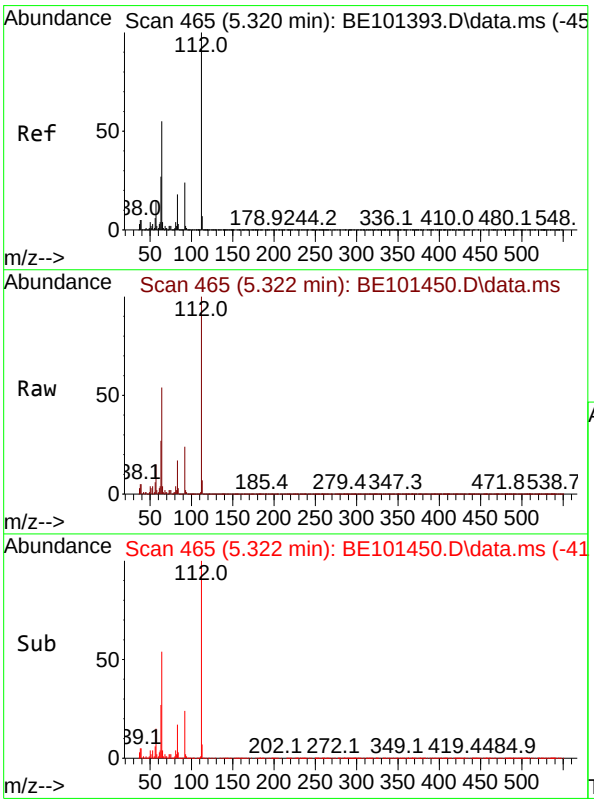
Ion	Ratio	Lower	Upper
152	100		
150	157.8	124.2	186.4
115	55.6	45.3	67.9



Instrument :
BNA_E
ClientSampleId :
TENNANT-PAD-2-3-STOCKPILE

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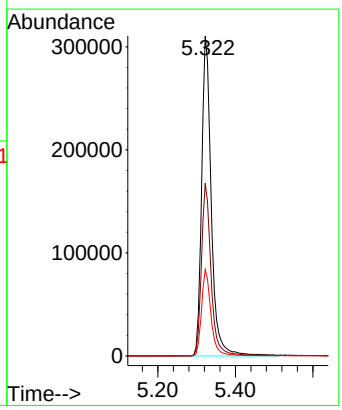
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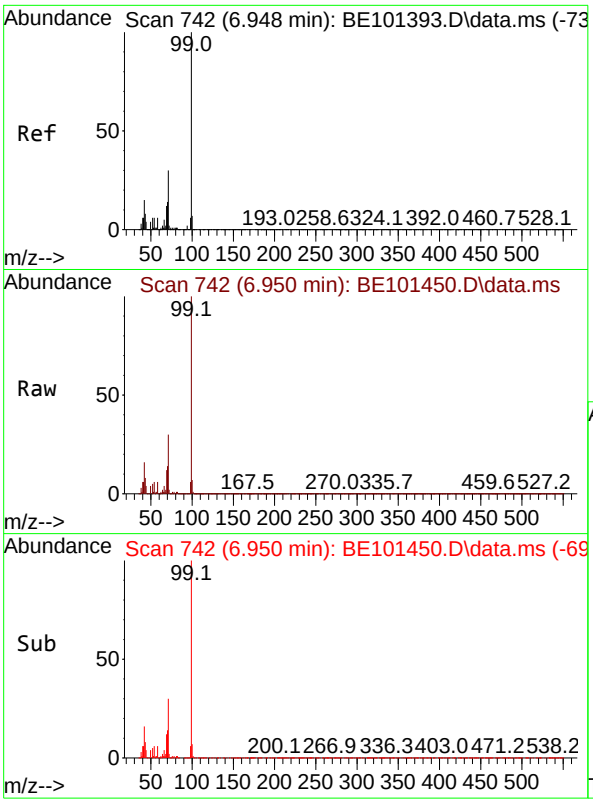


#5
2-Fluorophenol
Concen: 103.707 ng
RT: 5.322 min Scan# 465
Delta R.T. 0.002 min
Lab File: BE101450.D
Acq: 1 Nov 2024 15:45

Tgt Ion:112 Resp: 536510

Ion	Ratio	Lower	Upper
112	100		
64	54.0	43.7	65.5
63	27.0	21.4	32.2

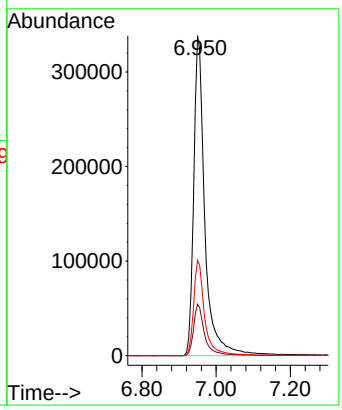




#7
Phenol-d6
Concen: 98.815 ng
RT: 6.950 min Scan# 7
Delta R.T. 0.002 min
Lab File: BE101450.D
Acq: 1 Nov 2024 15:45

Tgt Ion: 99 Resp: 70883

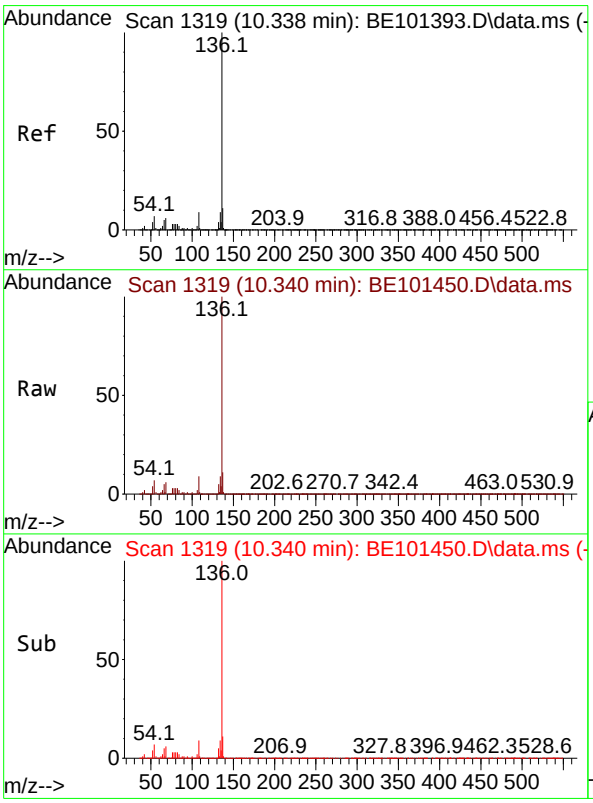
Ion	Ratio	Lower	Upper
99	100		
42	16.1	12.3	18.5
71	29.8	23.8	35.8



Instrument :
BNA_E
ClientSampleId :
TENNANT-PAD-2-3-STOCKPILE

Manual Integrations APPROVED

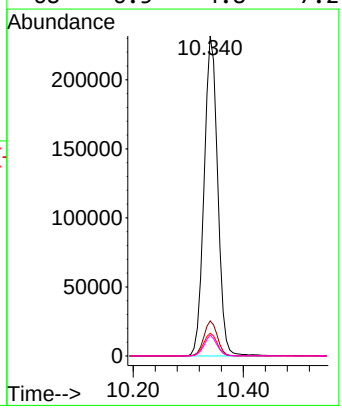
Reviewed By :Yogesh Patel 11/04/2024
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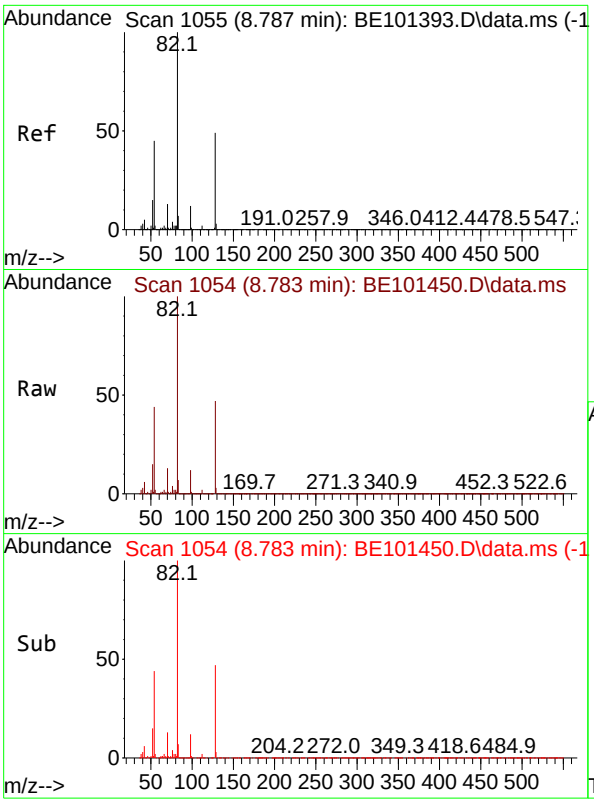


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.340 min Scan# 1319
Delta R.T. 0.002 min
Lab File: BE101450.D
Acq: 1 Nov 2024 15:45

Tgt Ion:136 Resp: 396894

Ion	Ratio	Lower	Upper
136	100		
137	10.9	9.0	13.6
54	7.1	5.9	8.9
68	6.5	4.8	7.2

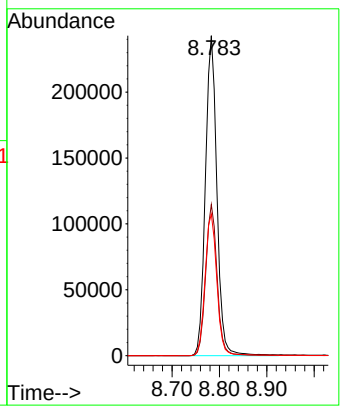




#23
Nitrobenzene-d5
Concen: 64.663 ng
RT: 8.783 min Scan# 1
Delta R.T. -0.004 min
Lab File: BE101450.D
Acq: 1 Nov 2024 15:45

Tgt Ion: 82 Resp: 40860

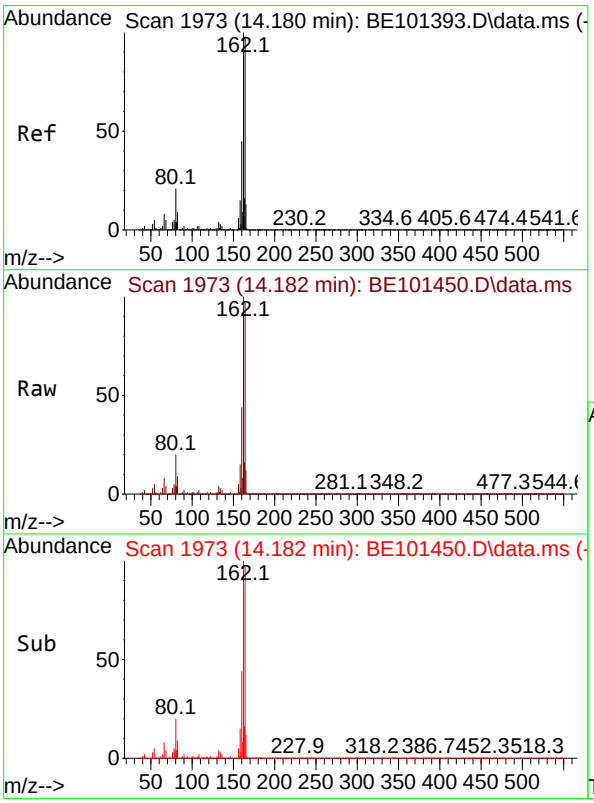
Ion	Ratio	Lower	Upper
82	100		
128	47.2	38.9	58.3
54	44.3	36.2	54.4



Instrument :
BNA_E
ClientSampleId :
TENNANT-PAD-2-3-STOCKPILE

Manual Integrations
APPROVED

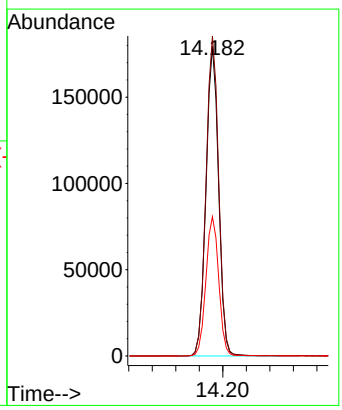
Reviewed By :Yogesh Patel 11/04/2024
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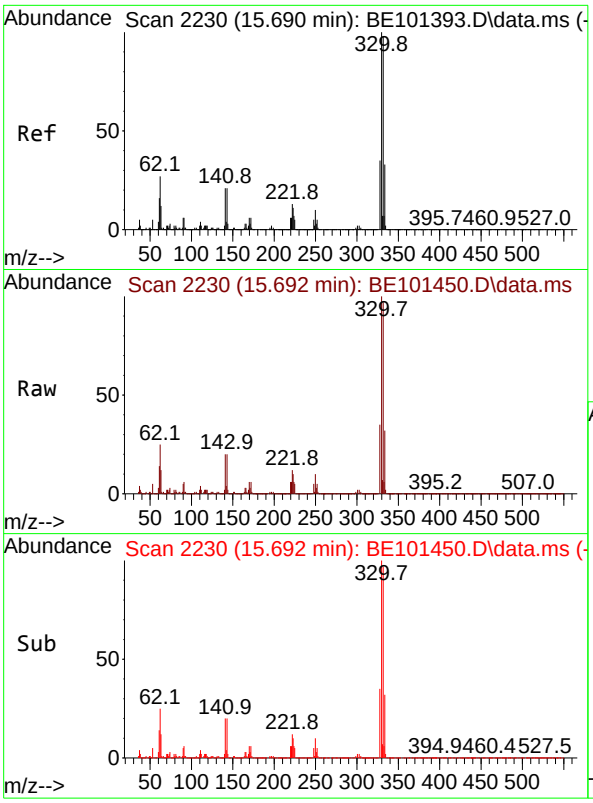


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.182 min Scan# 1973
Delta R.T. 0.002 min
Lab File: BE101450.D
Acq: 1 Nov 2024 15:45

Tgt Ion:164 Resp: 265226

Ion	Ratio	Lower	Upper
164	100		
162	103.4	81.3	121.9
160	45.0	36.4	54.6

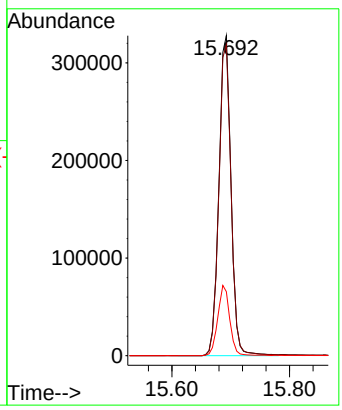




#42
2,4,6-Tribromophenol
Concen: 100.875 ng
RT: 15.692 min Scan# 2
Delta R.T. 0.002 min
Lab File: BE101450.D
Acq: 1 Nov 2024 15:45

Tgt Ion:330 Resp: 46892

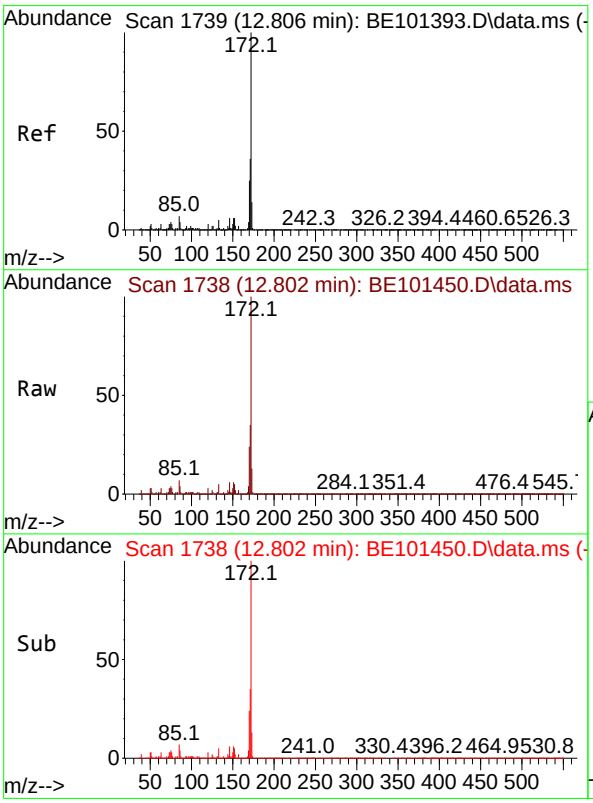
Ion	Ratio	Lower	Upper
330	100		
332	98.4	78.2	117.2
141	21.7	18.3	27.5



Instrument :
BNA_E
ClientSampleId :
TENNANT-PAD-2-3-STOCKPILE

Manual Integrations
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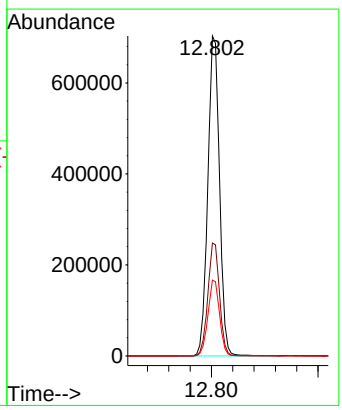
Reviewed By :Yogesh Patel 11/04/2024
Supervised By :mohammad ahmed 11/04/2024

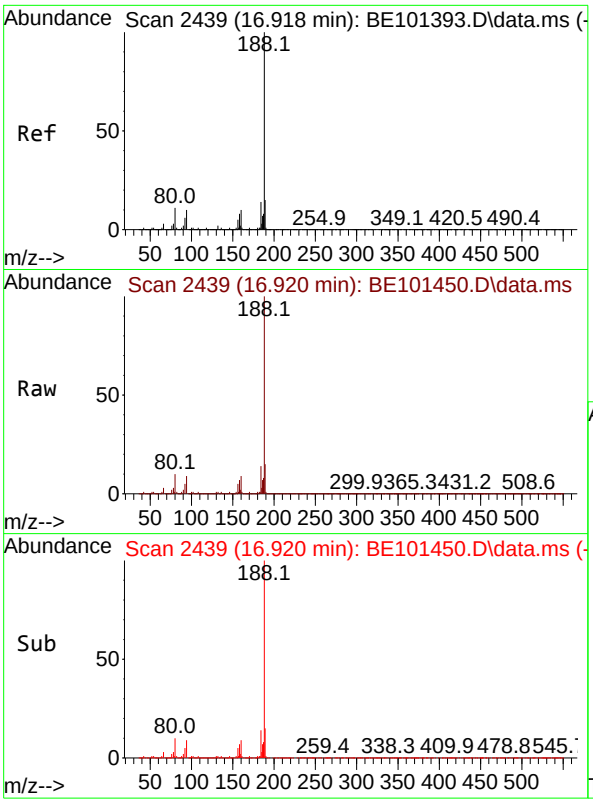


#45
2-Fluorobiphenyl
Concen: 68.555 ng
RT: 12.802 min Scan# 1738
Delta R.T. -0.004 min
Lab File: BE101450.D
Acq: 1 Nov 2024 15:45

Tgt Ion:172 Resp: 1073639

Ion	Ratio	Lower	Upper
172	100		
171	35.3	29.2	43.8
170	23.7	19.8	29.6

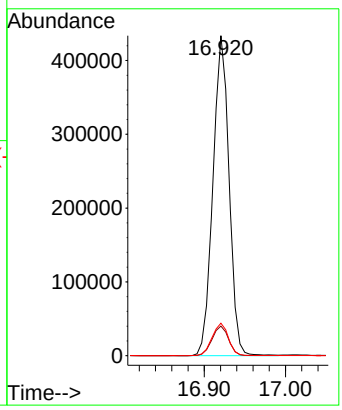




#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 16.920 min Scan# 24
Delta R.T. 0.002 min
Lab File: BE101450.D
Acq: 1 Nov 2024 15:45

Tgt Ion:188 Resp: 59807

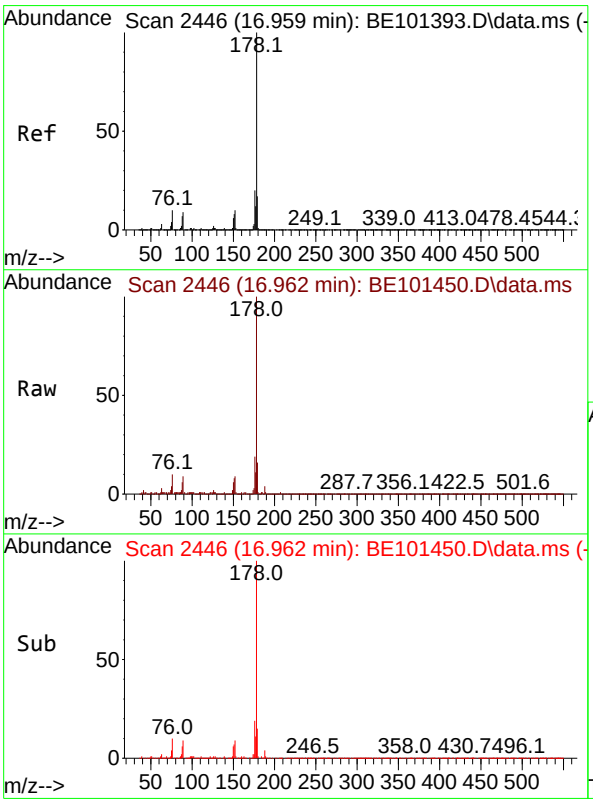
Ion	Ratio	Lower	Upper
188	100		
94	9.3	7.8	11.8
80	10.2	8.6	12.8



Instrument :
BNA_E
ClientSampleId :
TENNANT-PAD-2-3-STOCKPILE

Manual Integrations
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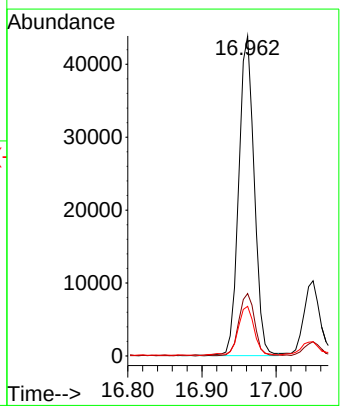
Reviewed By :Yogesh Patel 11/04/2024
Supervised By :mohammad ahmed 11/04/2024

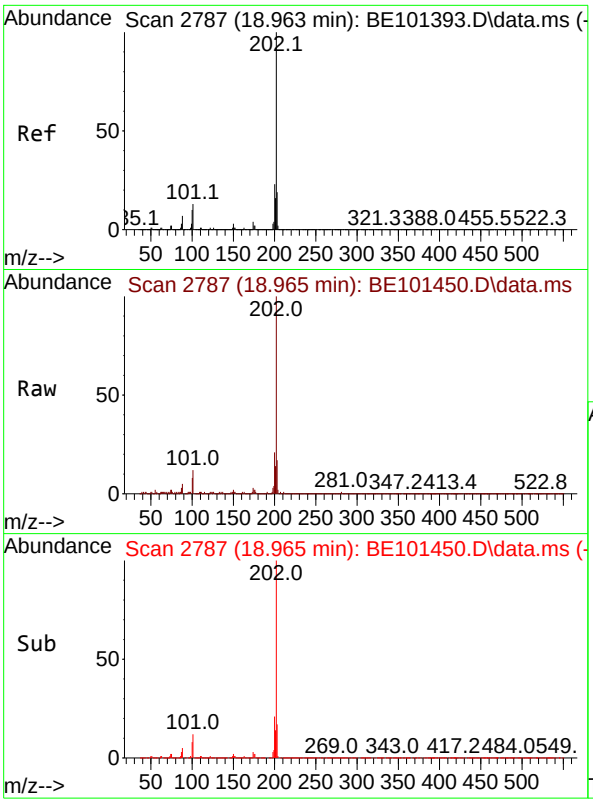


#71
Phenanthrene
Concen: 2.218 ng
RT: 16.962 min Scan# 2446
Delta R.T. 0.002 min
Lab File: BE101450.D
Acq: 1 Nov 2024 15:45

Tgt Ion:178 Resp: 63526

Ion	Ratio	Lower	Upper
178	100		
176	19.5	16.4	24.6
179	15.5	13.2	19.8

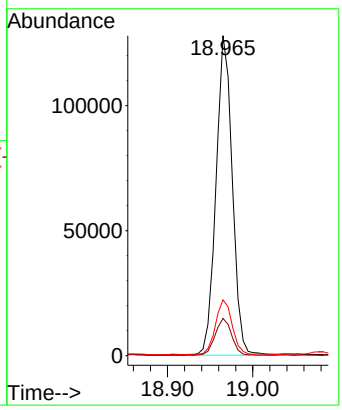




#75
Fluoranthene
Concen: 4.876 ng
RT: 18.965 min Scan# 2
Delta R.T. 0.002 min
Lab File: BE101450.D
Acq: 1 Nov 2024 15:45

Tgt Ion:202 Resp: 16958

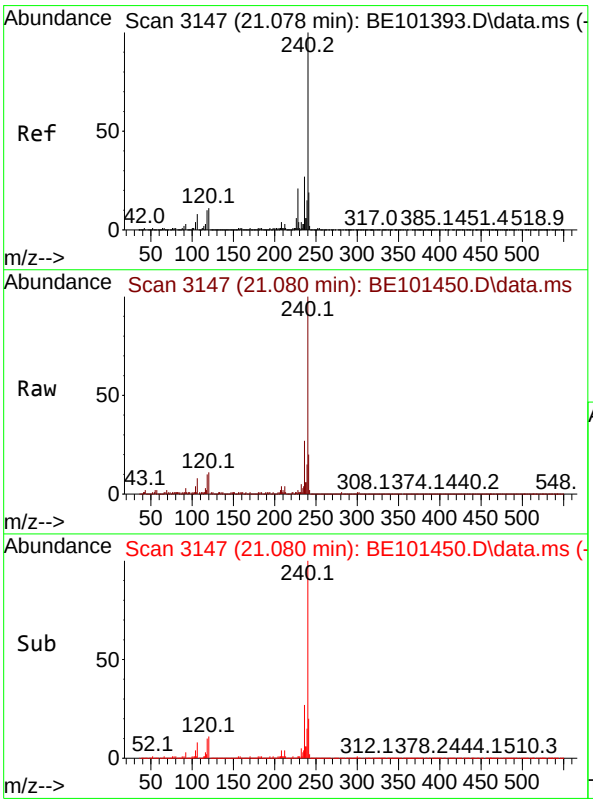
Ion	Ratio	Lower	Upper
202	100		
101	11.7	0.0	33.3
203	17.4	0.0	39.3



Instrument :
BNA_E
ClientSampleId :
TENNANT-PAD-2-3-STOCKPILE

Manual Integrations
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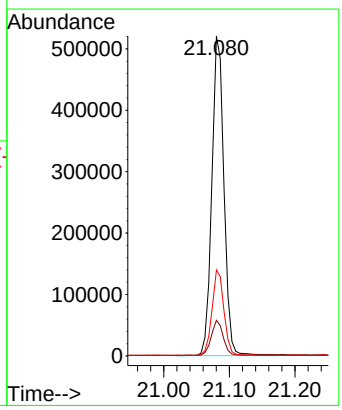
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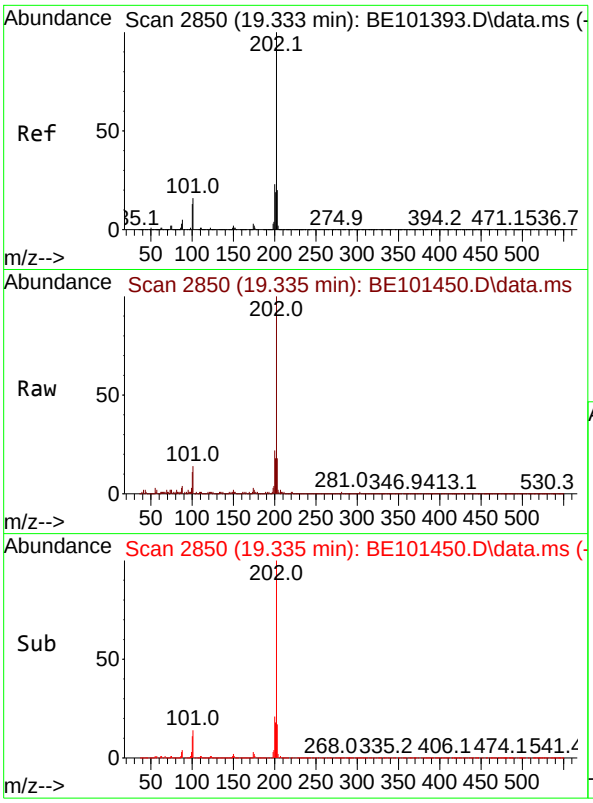


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.080 min Scan# 3147
Delta R.T. 0.002 min
Lab File: BE101450.D
Acq: 1 Nov 2024 15:45

Tgt Ion:240 Resp: 668565

Ion	Ratio	Lower	Upper
240	100		
120	11.1	9.0	13.4
236	26.9	21.4	32.0

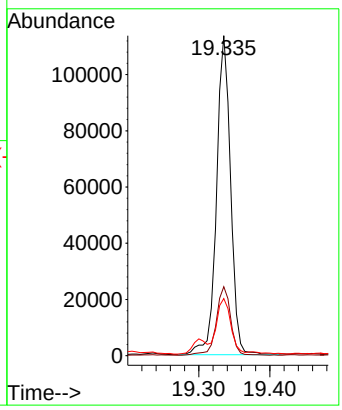




#78
Pyrene
Concen: 4.246 ng
RT: 19.335 min Scan# 2
Delta R.T. 0.002 min
Lab File: BE101450.D
Acq: 1 Nov 2024 15:45

Tgt Ion:202 Resp: 15611

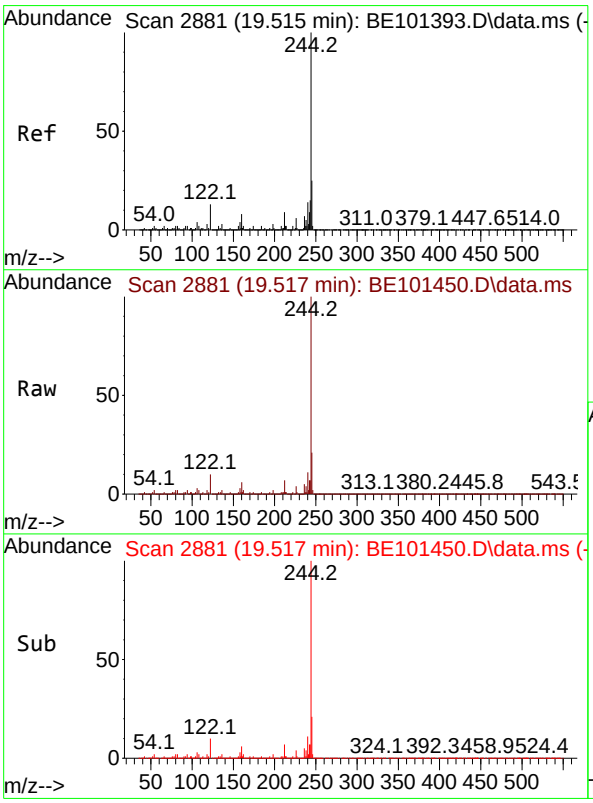
Ion	Ratio	Lower	Upper
202	100		
200	21.5	18.6	28.0
203	17.9	15.6	23.4



Instrument :
BNA_E
ClientSampleId :
TENNANT-PAD-2-3-STOCKPILE

Manual Integrations
APPROVED

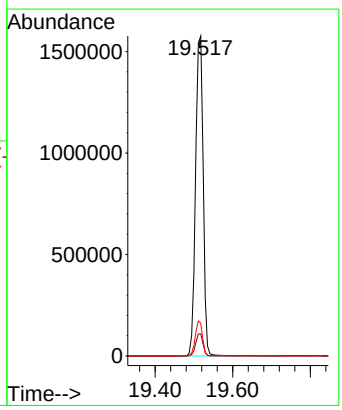
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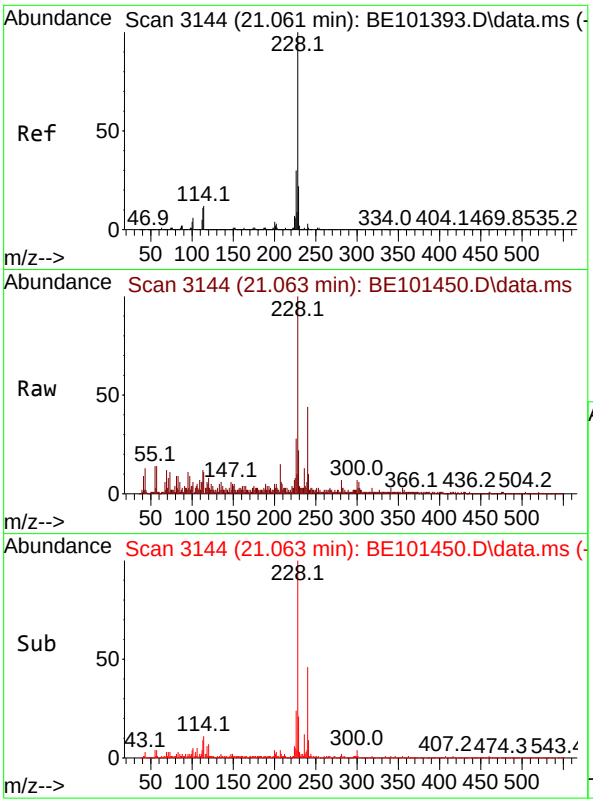


#79
Terphenyl-d14
Concen: 73.928 ng
RT: 19.517 min Scan# 2881
Delta R.T. 0.002 min
Lab File: BE101450.D
Acq: 1 Nov 2024 15:45

Tgt Ion:244 Resp: 2147495

Ion	Ratio	Lower	Upper
244	100		
212	6.9	7.2	10.8#
122	10.2	10.4	15.6#

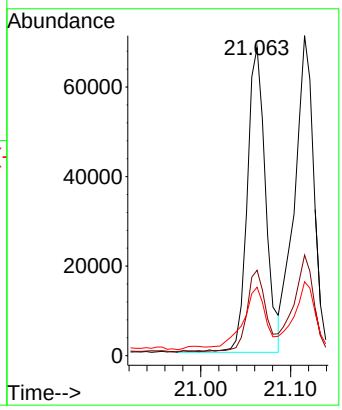




#81
Benzo(a)anthracene
Concen: 2.574 ng
RT: 21.063 min Scan# 3
Delta R.T. 0.002 min
Lab File: BE101450.D
Acq: 1 Nov 2024 15:45

Tgt Ion:228 Resp: 9670

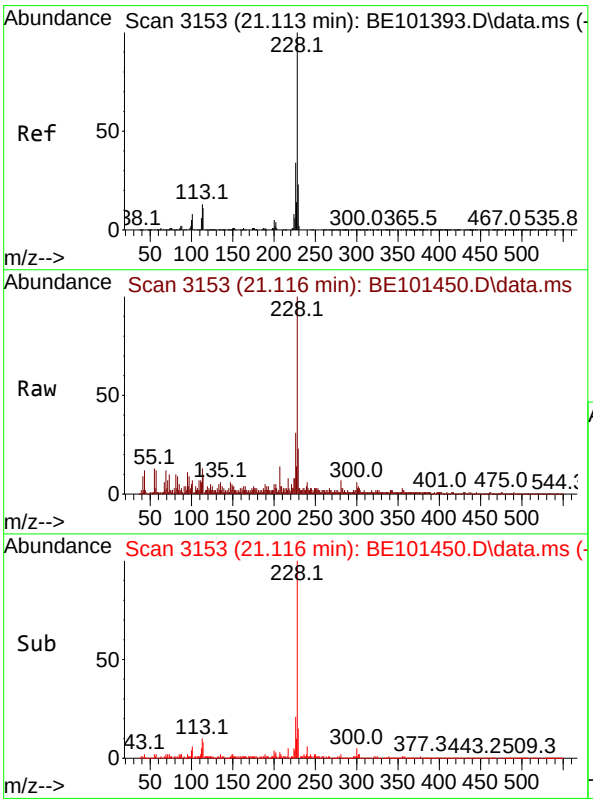
Ion	Ratio	Lower	Upper
228	100		
226	27.7	24.1	36.1
229	22.2	17.3	25.9



Instrument :
BNA_E
ClientSampleId :
TENNANT-PAD-2-3-STOCKPILE

Manual Integrations
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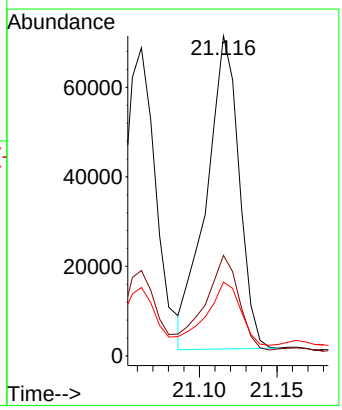
Reviewed By :Yogesh Patel 11/04/2024
Supervised By :mohammad ahmed 11/04/2024

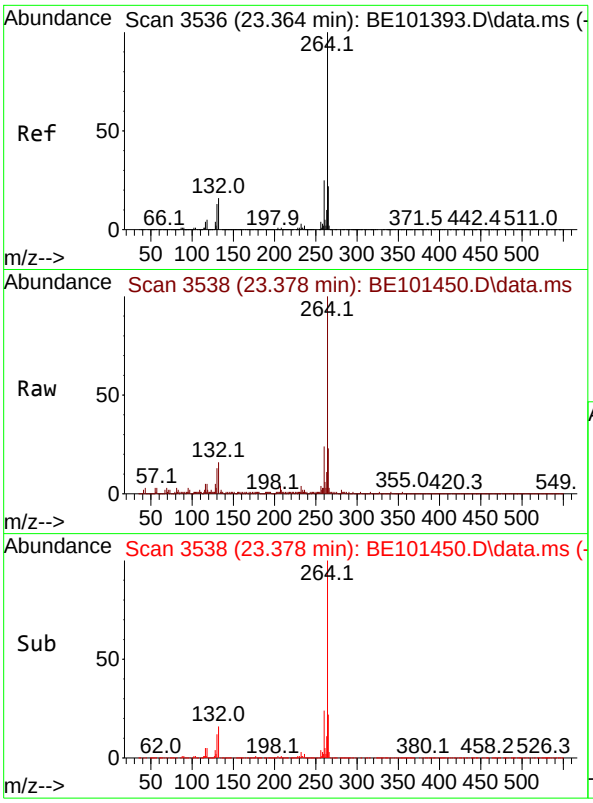


#83
Chrysene
Concen: 2.823 ng
RT: 21.116 min Scan# 3153
Delta R.T. 0.002 min
Lab File: BE101450.D
Acq: 1 Nov 2024 15:45

Tgt Ion:228 Resp: 102572

Ion	Ratio	Lower	Upper
228	100		
226	31.4	27.2	40.8
229	23.1	18.0	27.0

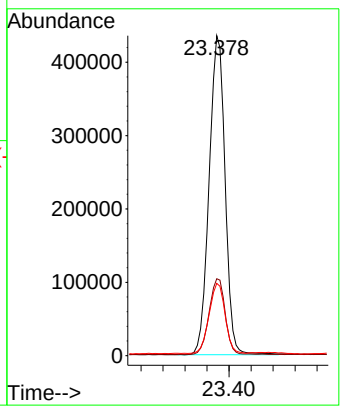




#86
Perylene-d12
Concen: 20.000 ng
RT: 23.378 min Scan# 3
Delta R.T. 0.014 min
Lab File: BE101450.D
Acq: 1 Nov 2024 15:45

Tgt Ion:264 Resp: 87636

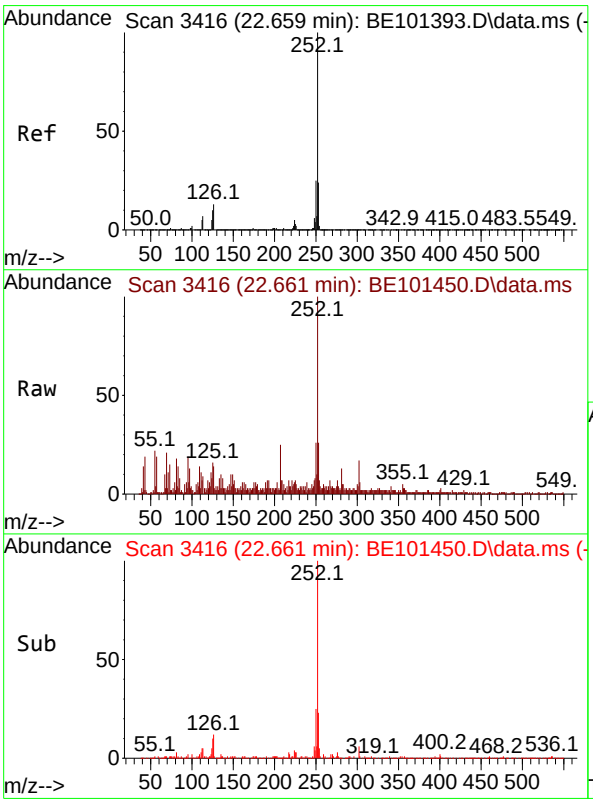
Ion	Ratio	Lower	Upper
264	100		
260	24.1	19.8	29.8
265	22.6	17.6	26.4



Instrument :
BNA_E
ClientSampleId :
TENNANT-PAD-2-3-STOCKPILE

Manual Integrations APPROVED

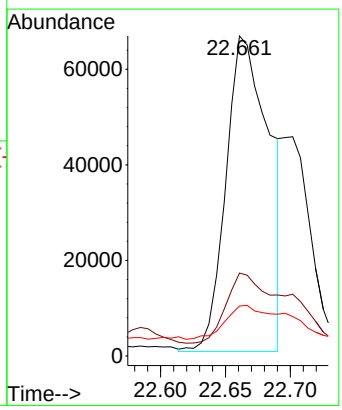
Reviewed By :Yogesh Patel 11/04/2024
Supervised By :mohammad ahmed 11/04/2024

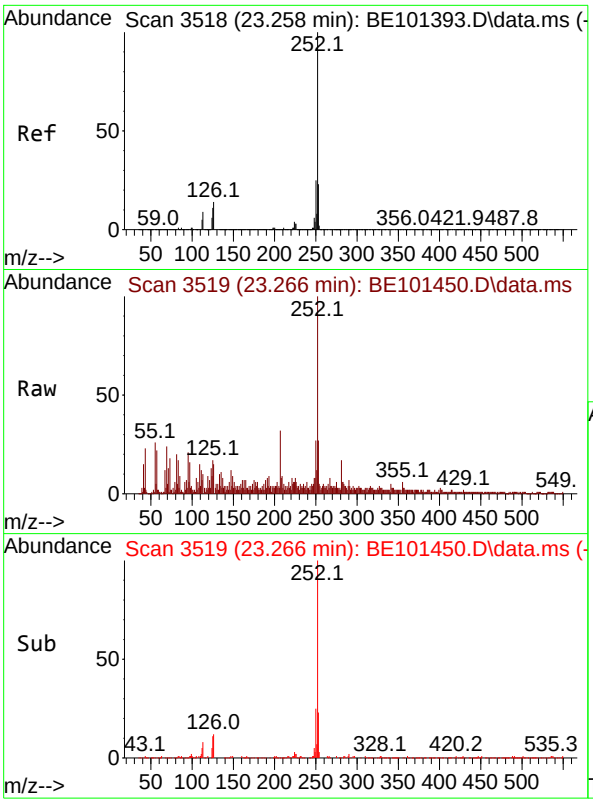


#88
Benzo(b)fluoranthene
Concen: 3.346 ng m
RT: 22.661 min Scan# 3416
Delta R.T. 0.002 min
Lab File: BE101450.D
Acq: 1 Nov 2024 15:45

Tgt Ion:252 Resp: 152832

Ion	Ratio	Lower	Upper
252	100		
253	25.9	19.0	28.6
125	15.6	8.2	12.2#

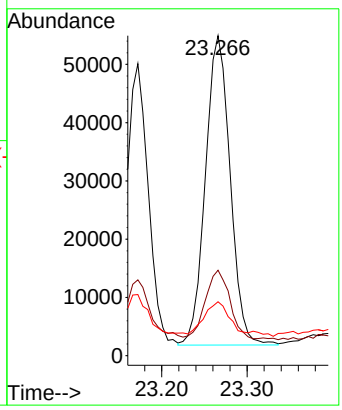




#90
Benzo(a)pyrene
Concen: 2.682 ng
RT: 23.266 min Scan# 3
Delta R.T. 0.008 min
Lab File: BE101450.D
Acq: 1 Nov 2024 15:45

Tgt Ion:252 Resp: 10714

Ion	Ratio	Lower	Upper
252	100		
253	26.7	18.4	27.6
125	16.8	9.0	13.6#



Instrument :
BNA_E
ClientSampleId :
TENNANT-PAD-2-3-STOCKPILE

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/04/2024
Supervised By :mohammad ahmed 11/04/2024

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF110124\
Data File : BF140212.D
Acq On : 01 Nov 2024 15:47
Operator : RC/JU
Sample : P4663-04
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
RES-BUILDING-PAD-NO-11

Quant Time: Nov 01 17:35:08 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration

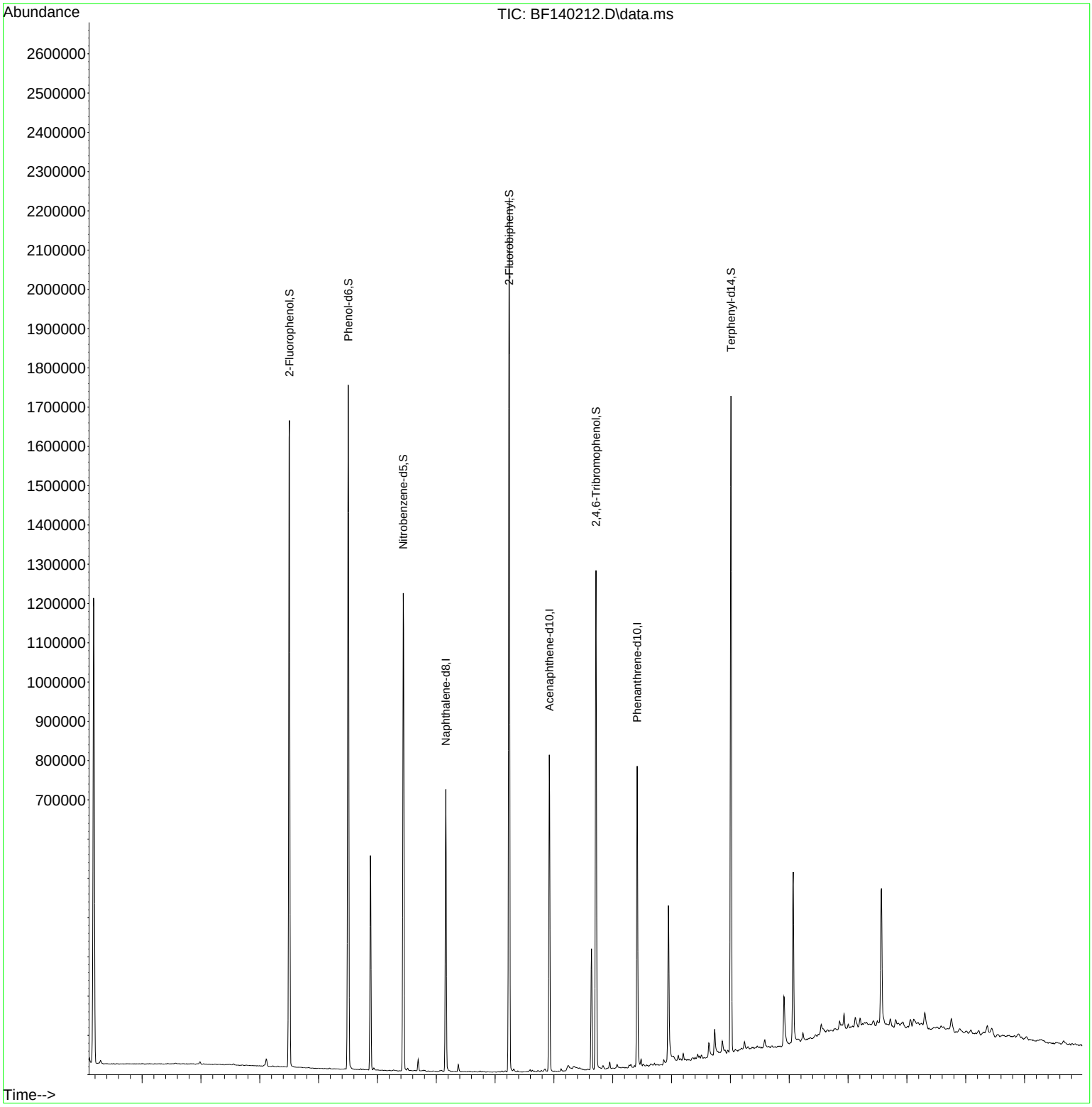
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.881	152	106496	20.000	ng	-0.01
21) Naphthalene-d8	8.163	136	419273	20.000	ng	-0.01
39) Acenaphthene-d10	9.922	164	231436	20.000	ng	0.00
64) Phenanthrene-d10	11.416	188	391644	20.000	ng	0.00
76) Chrysene-d12	14.068	240	198159	20.000	ng	0.02
86) Perylene-d12	15.568	264	221860	20.000	ng	0.04
System Monitoring Compounds						
5) 2-Fluorophenol	5.504	112	593038	87.176	ng	0.00
7) Phenol-d6	6.504	99	782841	88.852	ng	0.00
23) Nitrobenzene-d5	7.439	82	540152	71.403	ng	-0.01
42) 2,4,6-Tribromophenol	10.716	330	206576	95.426	ng	0.00
45) 2-Fluorobiphenyl	9.239	172	972072	69.416	ng	-0.01
79) Terphenyl-d14	13.010	244	823333	67.703	ng	0.01
Target Compounds						Qvalue

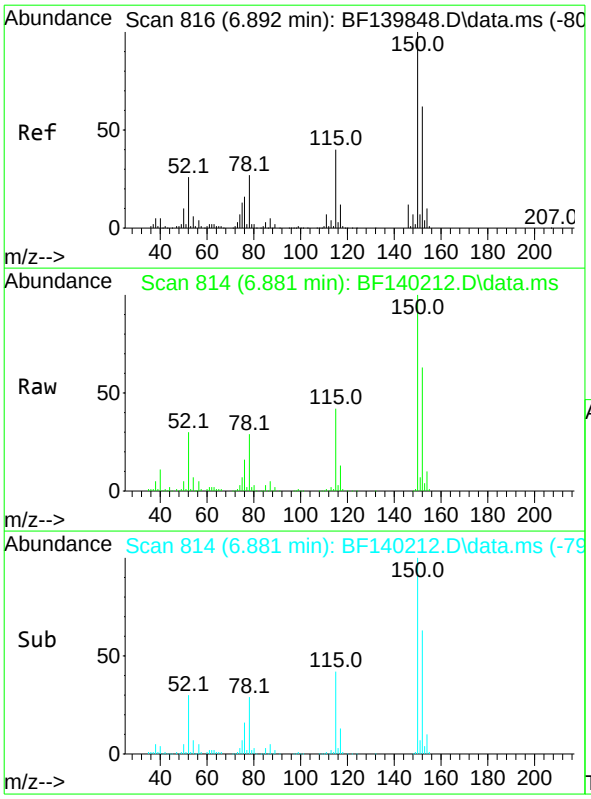
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF110124\
Data File : BF140212.D
Acq On : 01 Nov 2024 15:47
Operator : RC/JU
Sample : P4663-04
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
RES-BUILDING-PAD-NO-11

Quant Time: Nov 01 17:35:08 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration



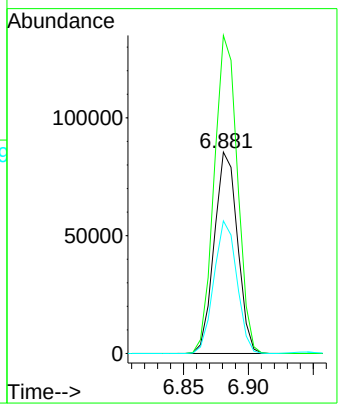


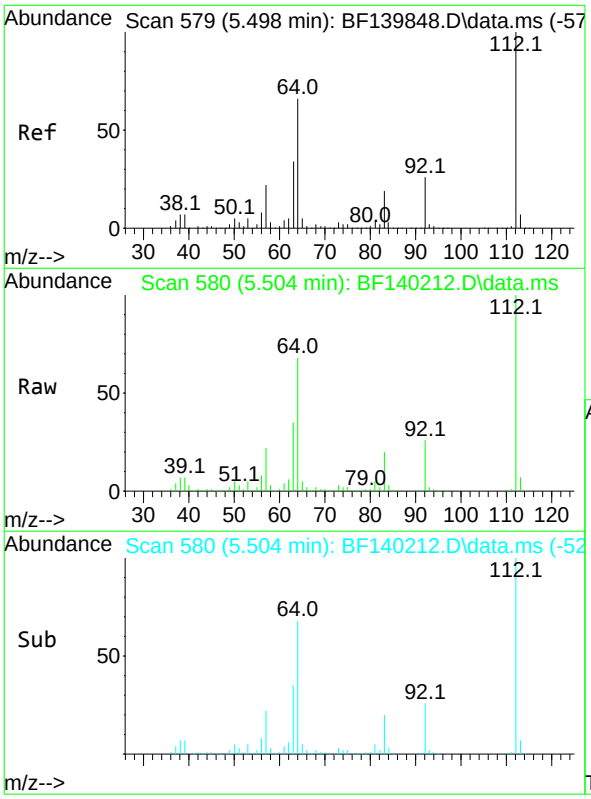
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.881 min Scan# 81
Delta R.T. -0.011 min
Lab File: BF140212.D
Acq: 01 Nov 2024 15:47

Instrument :
BNA_F
ClientSampleId :
RES-BUILDING-PAD-NO-11

Tgt Ion:152 Resp: 106496

Ion	Ratio	Lower	Upper
152	100		
150	157.9	130.2	195.2
115	65.8	51.4	77.2

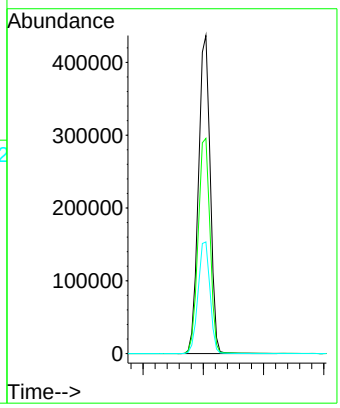


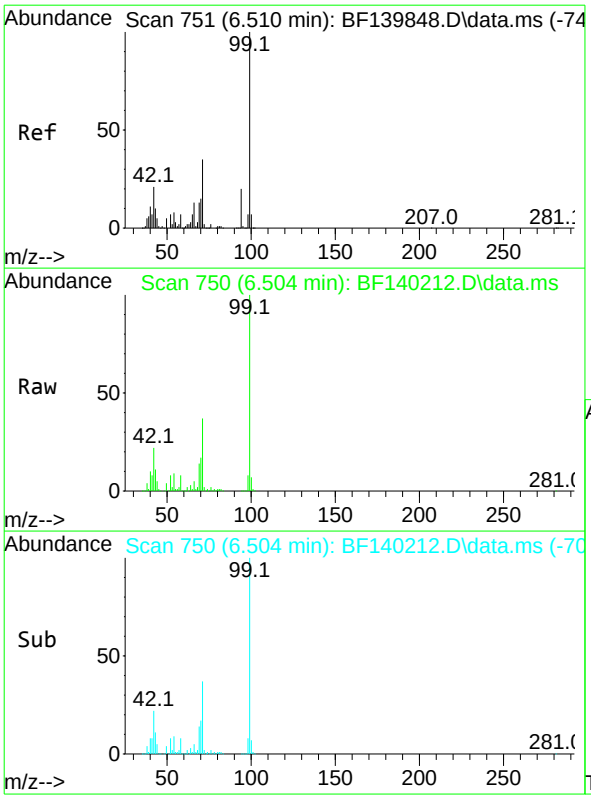


#5
2-Fluorophenol
Concen: 87.176 ng
RT: 5.504 min Scan# 580
Delta R.T. 0.006 min
Lab File: BF140212.D
Acq: 01 Nov 2024 15:47

Tgt Ion:112 Resp: 593038

Ion	Ratio	Lower	Upper
112	100		
64	67.7	53.0	79.6
63	35.1	27.0	40.4



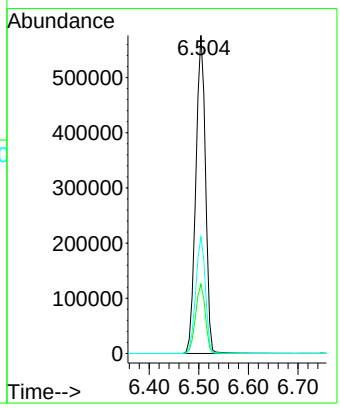


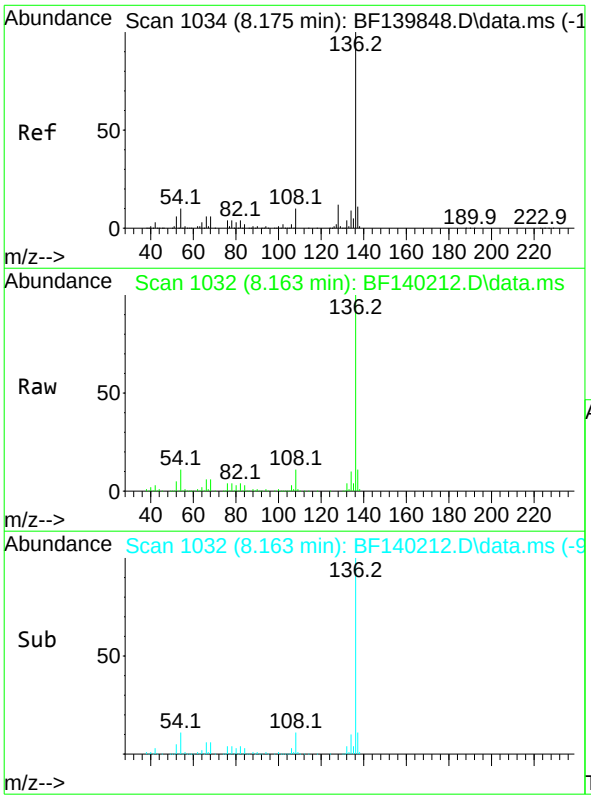
#7
Phenol-d6
Concen: 88.852 ng
RT: 6.504 min Scan# 75
Delta R.T. -0.006 min
Lab File: BF140212.D
Acq: 01 Nov 2024 15:47

Instrument :
BNA_F
ClientSampleId :
RES-BUILDING-PAD-NO-11

Tgt Ion: 99 Resp: 782841

Ion	Ratio	Lower	Upper
99	100		
42	21.8	16.7	25.1
71	36.7	27.7	41.5

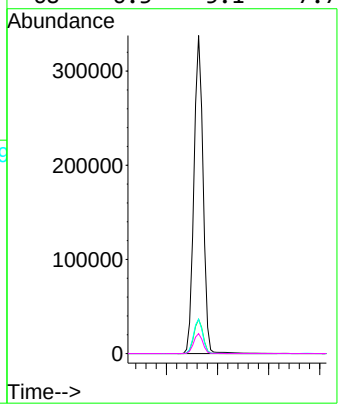


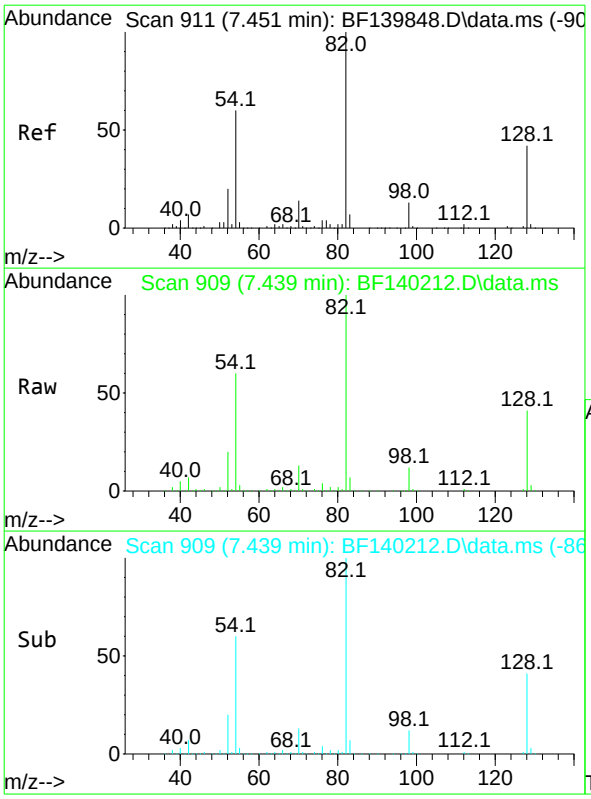


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.163 min Scan# 1032
Delta R.T. -0.012 min
Lab File: BF140212.D
Acq: 01 Nov 2024 15:47

Tgt Ion:136 Resp: 419273

Ion	Ratio	Lower	Upper
136	100		
137	10.8	8.6	12.8
54	10.8	8.4	12.6
68	6.3	5.1	7.7



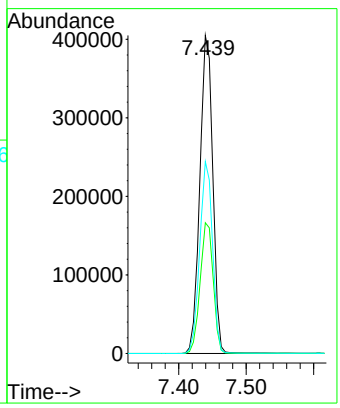


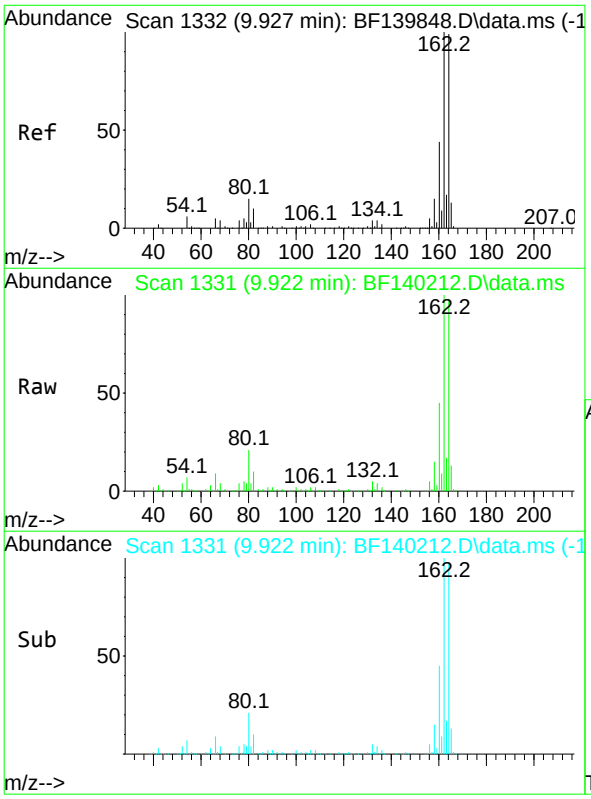
#23
Nitrobenzene-d5
Concen: 71.403 ng
RT: 7.439 min Scan# 90
Delta R.T. -0.012 min
Lab File: BF140212.D
Acq: 01 Nov 2024 15:47

Instrument :
BNA_F
ClientSampleId :
RES-BUILDING-PAD-NO-11

Tgt Ion: 82 Resp: 540152

Ion	Ratio	Lower	Upper
82	100		
128	41.1	33.4	50.0
54	60.3	47.8	71.8

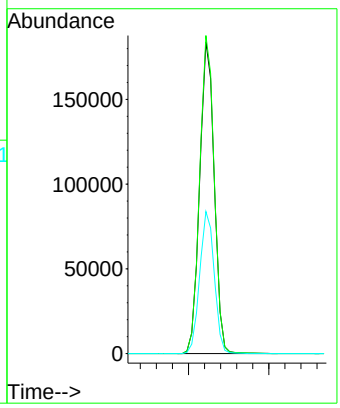


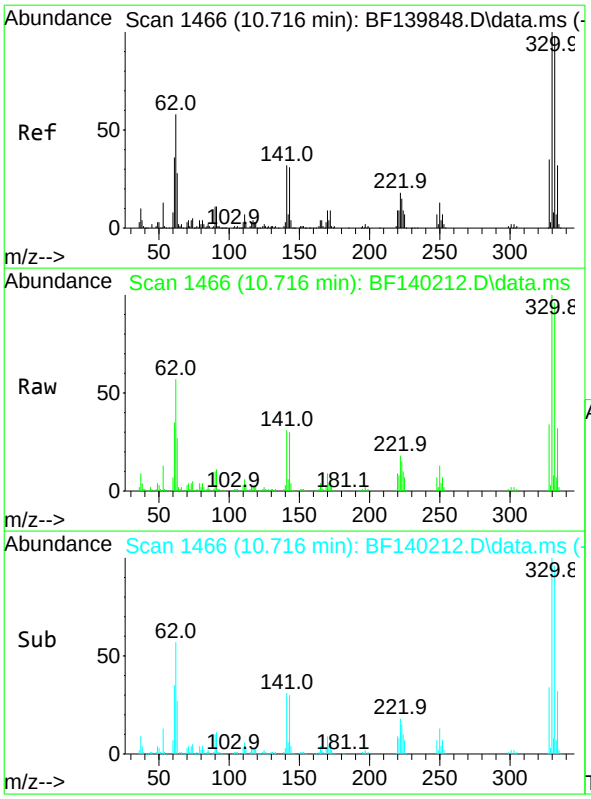


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.922 min Scan# 1331
Delta R.T. -0.005 min
Lab File: BF140212.D
Acq: 01 Nov 2024 15:47

Tgt Ion:164 Resp: 231436

Ion	Ratio	Lower	Upper
164	100		
162	102.1	81.0	121.4
160	45.6	35.4	53.0



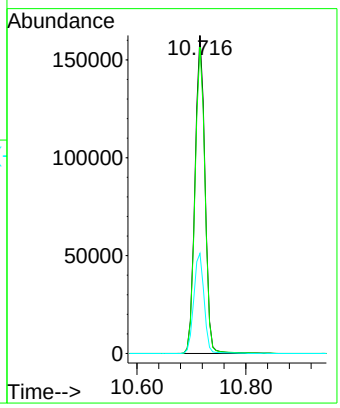


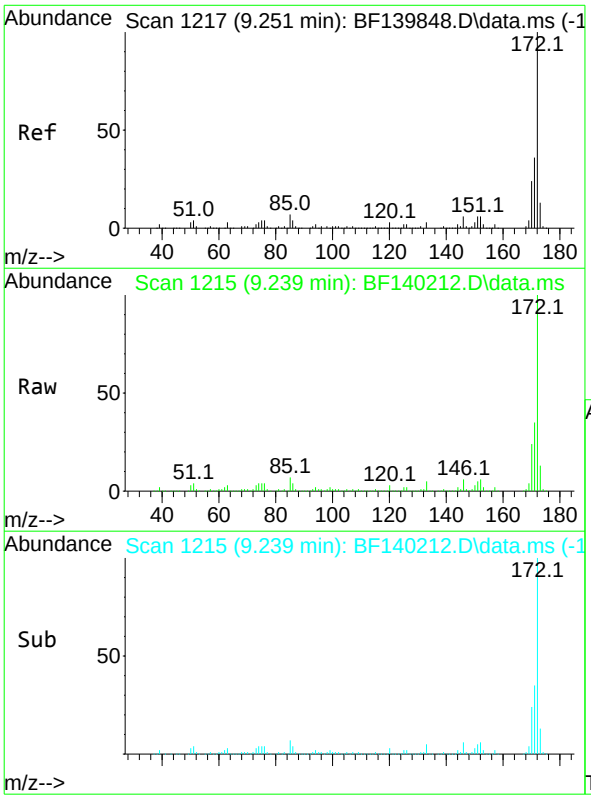
#42
2,4,6-Tribromophenol
Concen: 95.426 ng
RT: 10.716 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF140212.D
Acq: 01 Nov 2024 15:47

Instrument :
BNA_F
ClientSampleId :
RES-BUILDING-PAD-NO-11

Tgt Ion:330 Resp: 206576

Ion	Ratio	Lower	Upper
330	100		
332	96.4	78.1	117.1
141	32.6	26.6	39.8

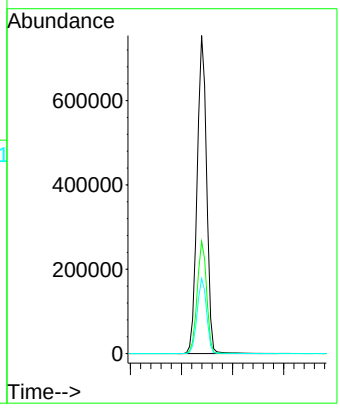


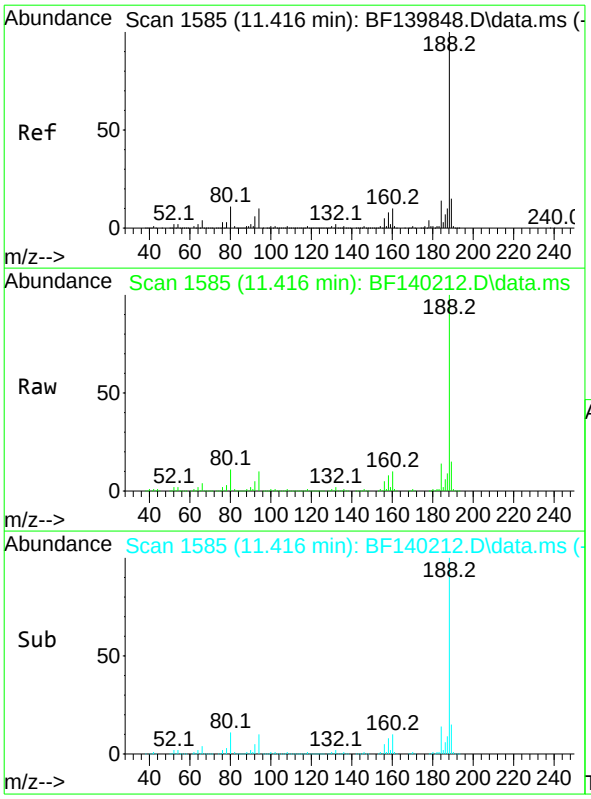


#45
2-Fluorobiphenyl
Concen: 69.416 ng
RT: 9.239 min Scan# 1215
Delta R.T. -0.012 min
Lab File: BF140212.D
Acq: 01 Nov 2024 15:47

Tgt Ion:172 Resp: 972072

Ion	Ratio	Lower	Upper
172	100		
171	35.3	28.6	43.0
170	23.6	19.1	28.7



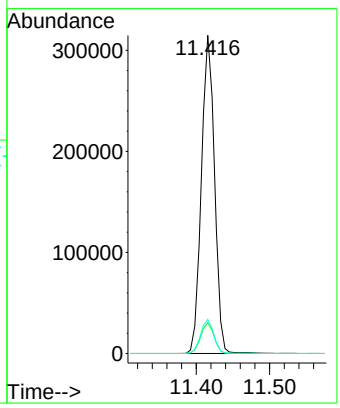


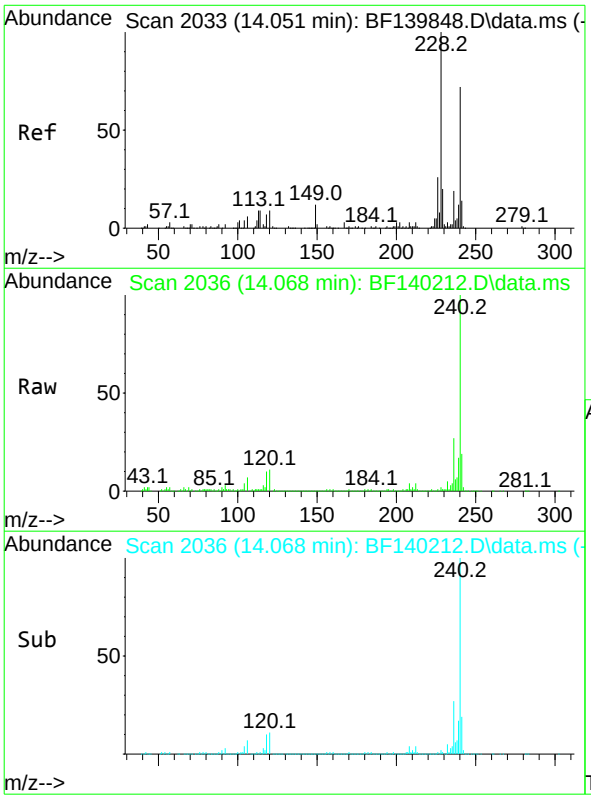
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.416 min Scan# 15
Delta R.T. 0.000 min
Lab File: BF140212.D
Acq: 01 Nov 2024 15:47

Instrument :
BNA_F
ClientSampleId :
RES-BUILDING-PAD-NO-11

Tgt Ion:188 Resp: 391644

Ion	Ratio	Lower	Upper
188	100		
94	9.6	7.9	11.9
80	10.7	9.0	13.4

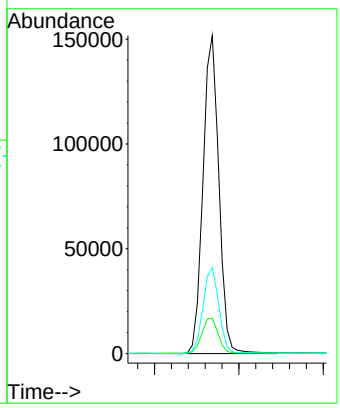


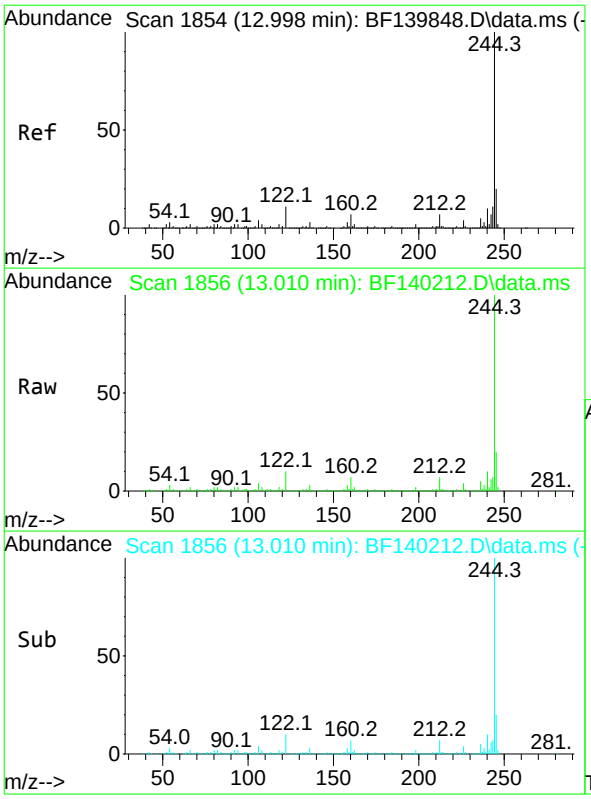


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.068 min Scan# 2036
Delta R.T. 0.018 min
Lab File: BF140212.D
Acq: 01 Nov 2024 15:47

Tgt Ion:240 Resp: 198159

Ion	Ratio	Lower	Upper
240	100		
120	11.2	9.4	14.2
236	27.0	20.9	31.3



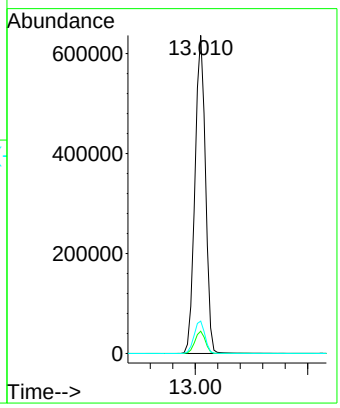


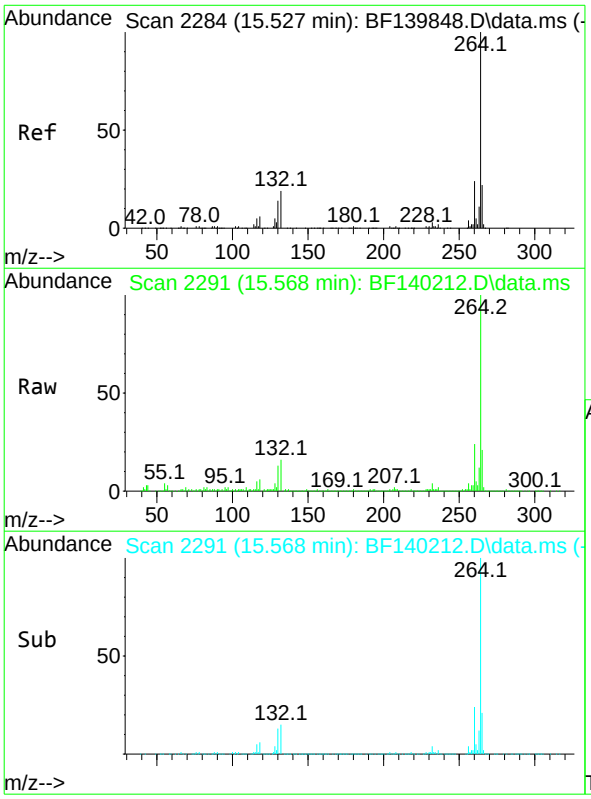
#79
Terphenyl-d14
Concen: 67.703 ng
RT: 13.010 min Scan# 18
Delta R.T. 0.012 min
Lab File: BF140212.D
Acq: 01 Nov 2024 15:47

Instrument :
BNA_F
ClientSampleId :
RES-BUILDING-PAD-NO-11

Tgt Ion:244 Resp: 823333

Ion	Ratio	Lower	Upper
244	100		
212	7.0	5.7	8.5
122	10.2	8.6	13.0

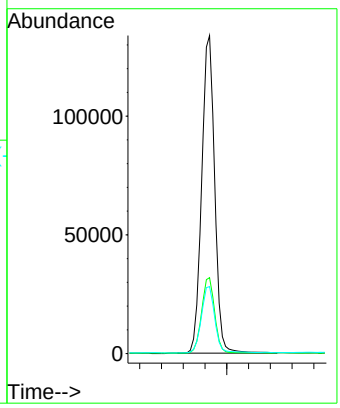




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.568 min Scan# 2291
Delta R.T. 0.041 min
Lab File: BF140212.D
Acq: 01 Nov 2024 15:47

Tgt Ion:264 Resp: 221860

Ion	Ratio	Lower	Upper
264	100		
260	23.9	19.4	29.2
265	21.1	17.4	26.0



Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE110124\
Data File : BE101448.D
Acq On : 1 Nov 2024 14:33
Operator : RC/JU
Sample : P4663-06
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_E
ClientSampleId :
RES-BUILDING-PAD-NO-3

Quant Time: Nov 01 16:12:52 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 29 01:26:30 2024
Response via : Initial Calibration

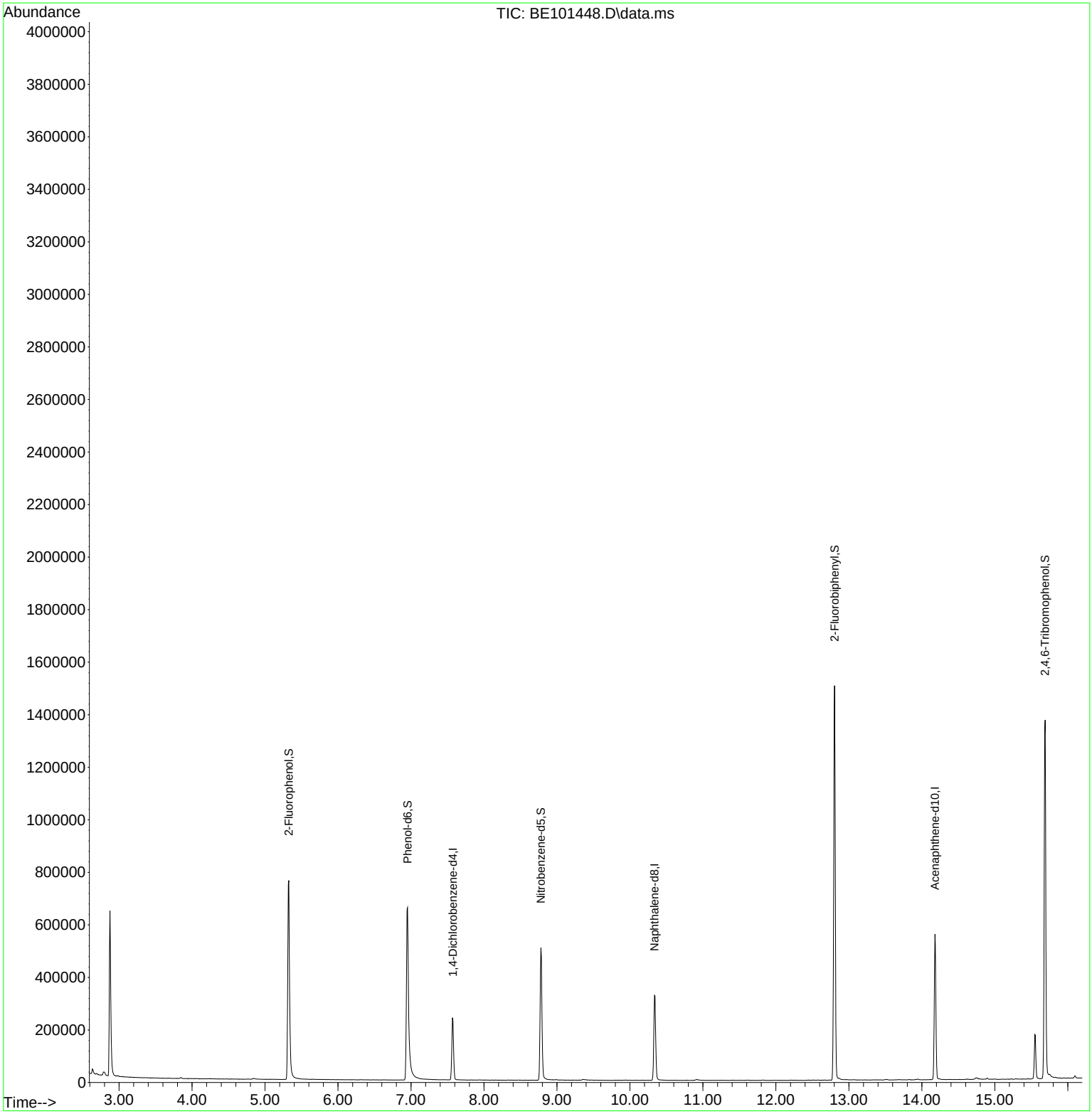
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.575	152	69420	20.000	ng	0.00
21) Naphthalene-d8	10.337	136	296978	20.000	ng	0.00
39) Acenaphthene-d10	14.179	164	197789	20.000	ng	0.00
64) Phenanthrene-d10	16.917	188	455282	20.000	ng	0.00
76) Chrysene-d12	21.083	240	540190	20.000	ng	0.00
86) Perylene-d12	23.374	264	717080	20.000	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.325	112	421241	106.352	ng	0.00
7) Phenol-d6	6.952	99	547227	99.639	ng	0.00
23) Nitrobenzene-d5	8.780	82	314844	66.588	ng	0.00
42) 2,4,6-Tribromophenol	15.689	330	354276	102.197	ng	0.00
45) 2-Fluorobiphenyl	12.804	172	805201	68.944	ng	0.00
79) Terphenyl-d14	19.514	244	1684321	71.763	ng	0.00
Target Compounds						Qvalue

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE110124\
Data File : BE101448.D
Acq On : 1 Nov 2024 14:33
Operator : RC/JU
Sample : P4663-06
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_E
ClientSampleId :
RES-BUILDING-PAD-NO-3

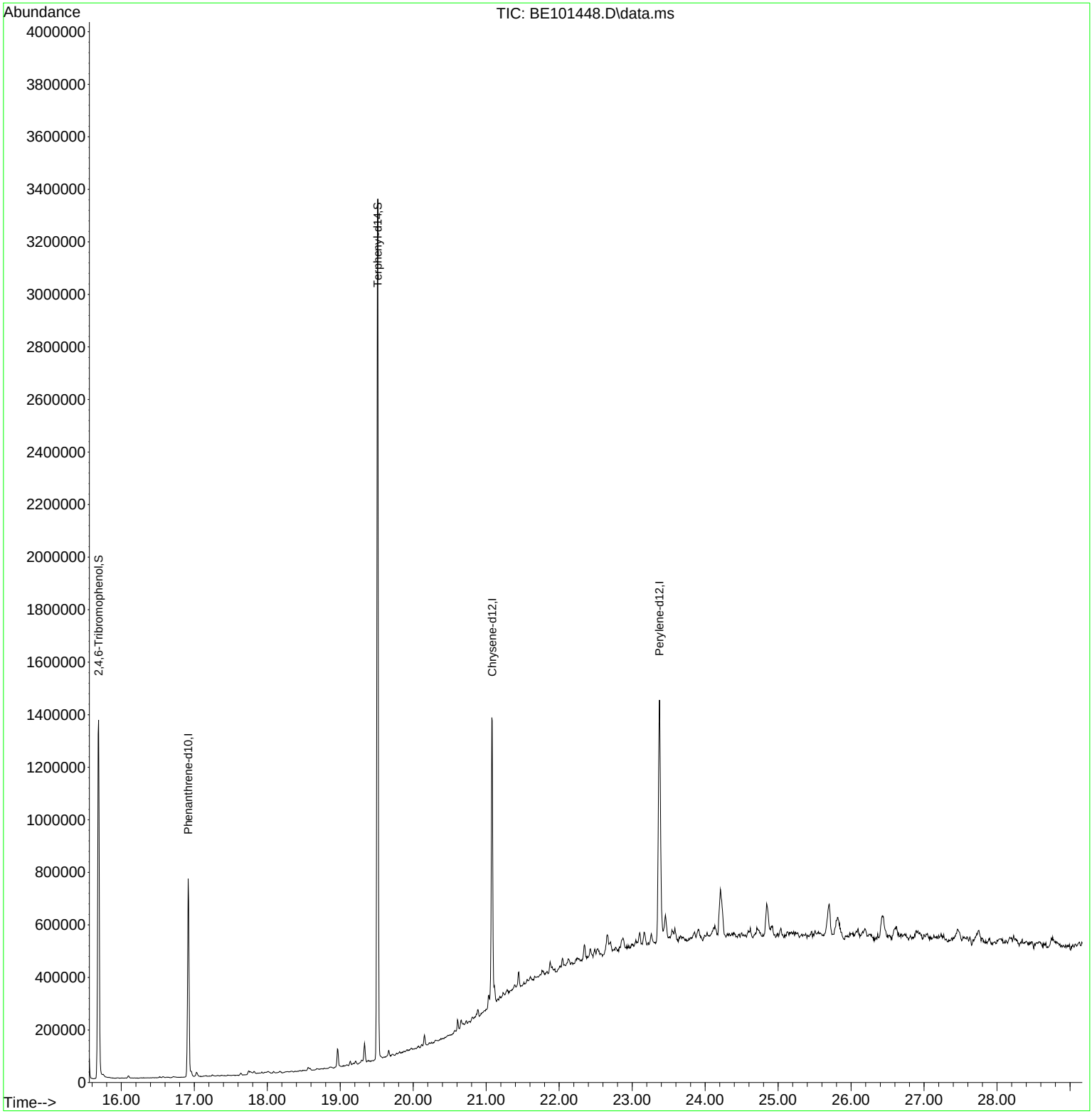
Quant Time: Nov 01 16:12:52 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 29 01:26:30 2024
Response via : Initial Calibration

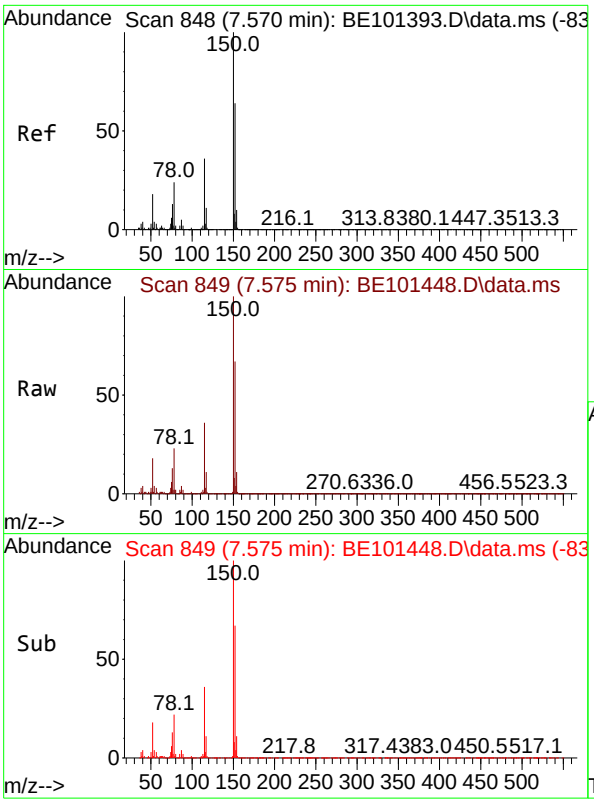


Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE110124\
Data File : BE101448.D
Acq On : 1 Nov 2024 14:33
Operator : RC/JU
Sample : P4663-06
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_E
ClientSampleId :
RES-BUILDING-PAD-NO-3

Quant Time: Nov 01 16:12:52 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 29 01:26:30 2024
Response via : Initial Calibration



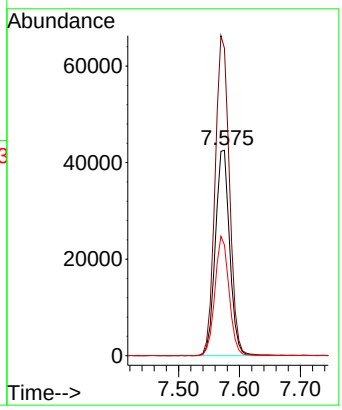


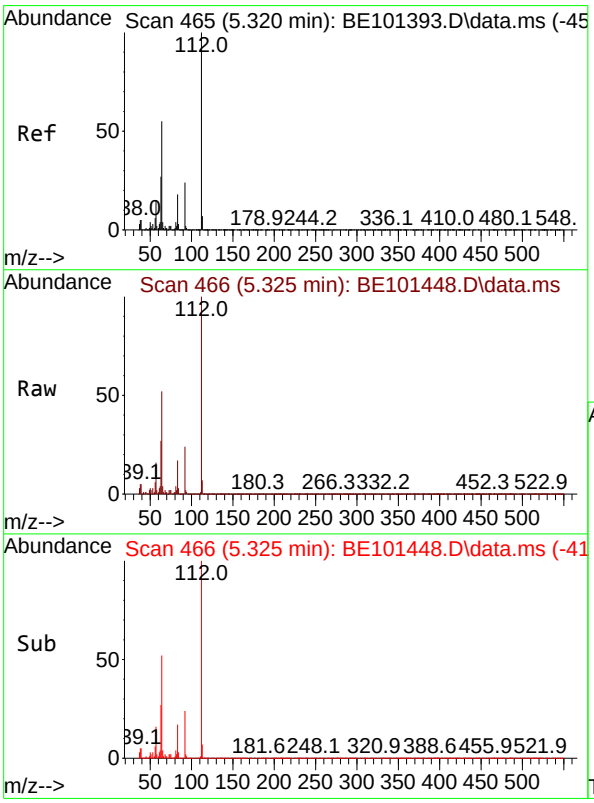
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.575 min Scan# 84
Delta R.T. 0.005 min
Lab File: BE101448.D
Acq: 1 Nov 2024 14:33

Instrument :
BNA_E
ClientSampleId :
RES-BUILDING-PAD-NO-3

Tgt Ion:152 Resp: 69420

Ion	Ratio	Lower	Upper
152	100		
150	149.5	124.2	186.4
115	53.9	45.3	67.9

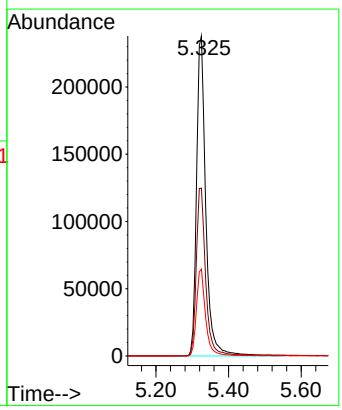


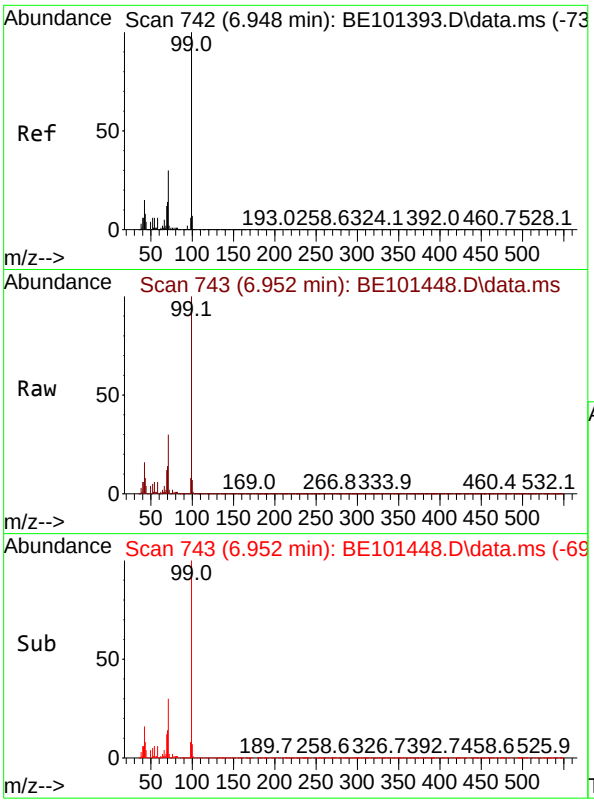


#5
2-Fluorophenol
Concen: 106.352 ng
RT: 5.325 min Scan# 466
Delta R.T. 0.005 min
Lab File: BE101448.D
Acq: 1 Nov 2024 14:33

Tgt Ion:112 Resp: 421241

Ion	Ratio	Lower	Upper
112	100		
64	52.5	43.7	65.5
63	27.1	21.4	32.2



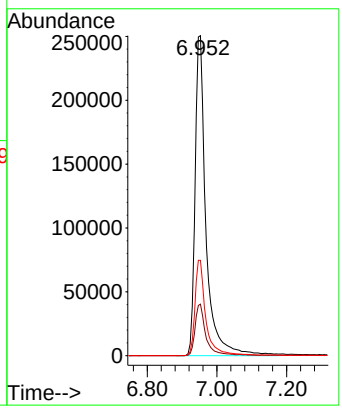


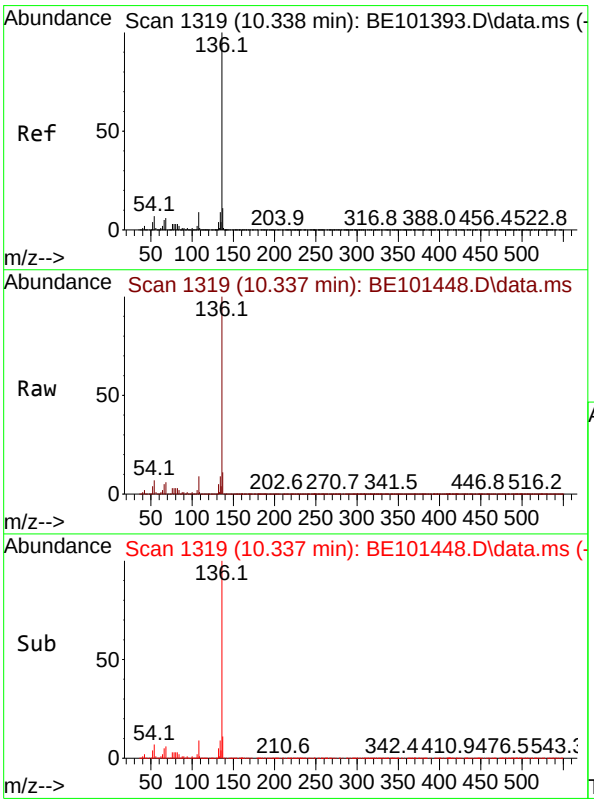
#7
Phenol-d6
Concen: 99.639 ng
RT: 6.952 min Scan# 7
Delta R.T. 0.005 min
Lab File: BE101448.D
Acq: 1 Nov 2024 14:33

Instrument :
BNA_E
ClientSampleId :
RES-BUILDING-PAD-NO-3

Tgt Ion: 99 Resp: 547227

Ion	Ratio	Lower	Upper
99	100		
42	16.1	12.3	18.5
71	29.8	23.8	35.8

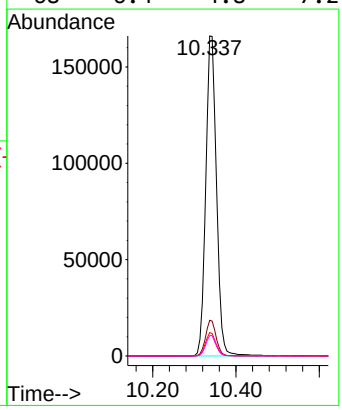


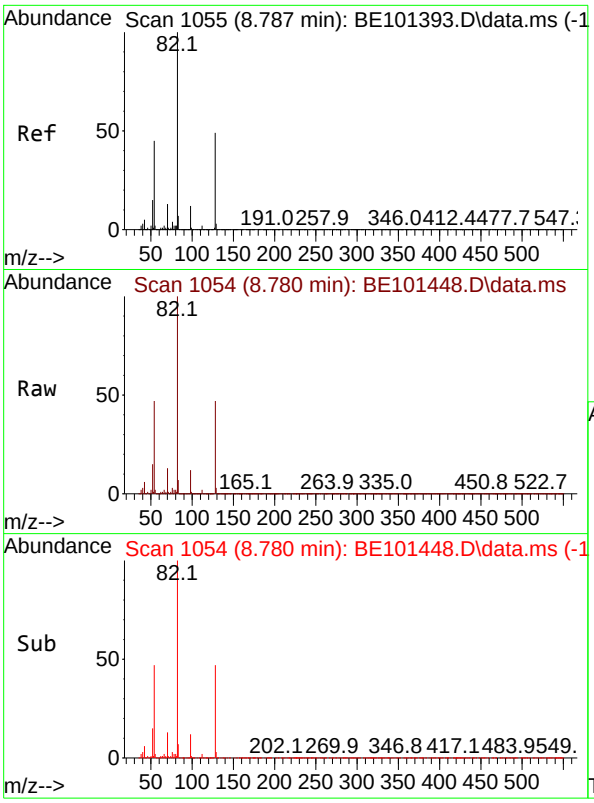


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.337 min Scan# 1319
Delta R.T. -0.001 min
Lab File: BE101448.D
Acq: 1 Nov 2024 14:33

Tgt Ion:136 Resp: 296978

Ion	Ratio	Lower	Upper
136	100		
137	11.1	9.0	13.6
54	7.3	5.9	8.9
68	6.4	4.8	7.2



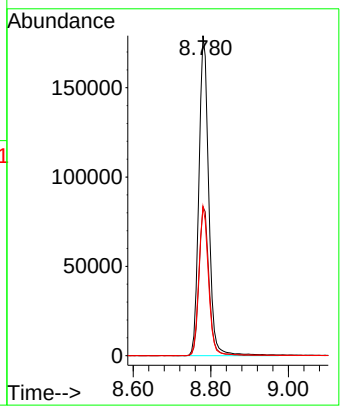


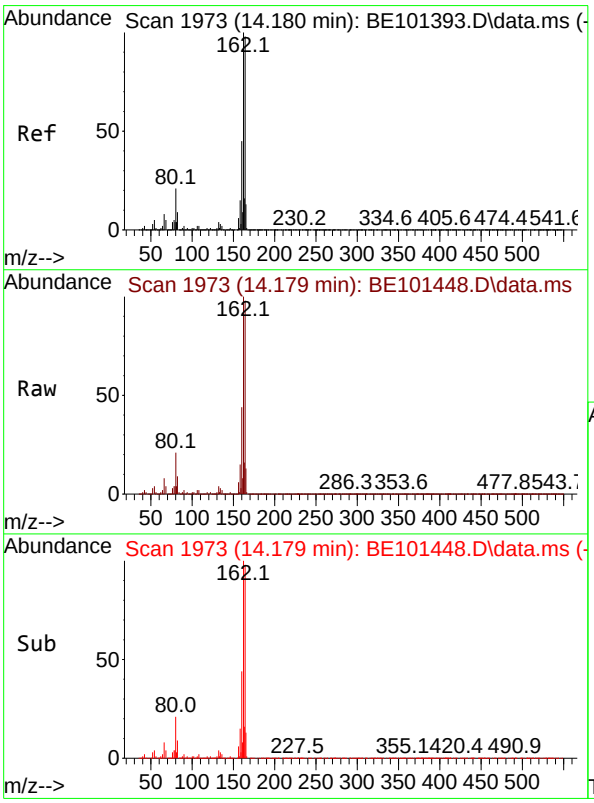
#23
Nitrobenzene-d5
Concen: 66.588 ng
RT: 8.780 min Scan# 1
Delta R.T. -0.007 min
Lab File: BE101448.D
Acq: 1 Nov 2024 14:33

Instrument :
BNA_E
ClientSampleId :
RES-BUILDING-PAD-NO-3

Tgt Ion: 82 Resp: 314844

Ion	Ratio	Lower	Upper
82	100		
128	46.6	38.9	58.3
54	46.5	36.2	54.4

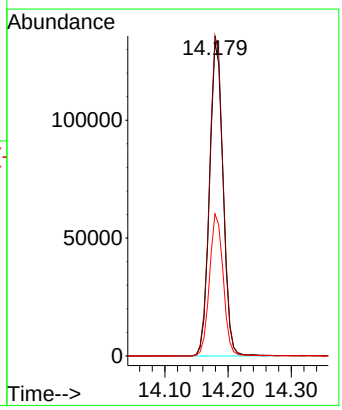


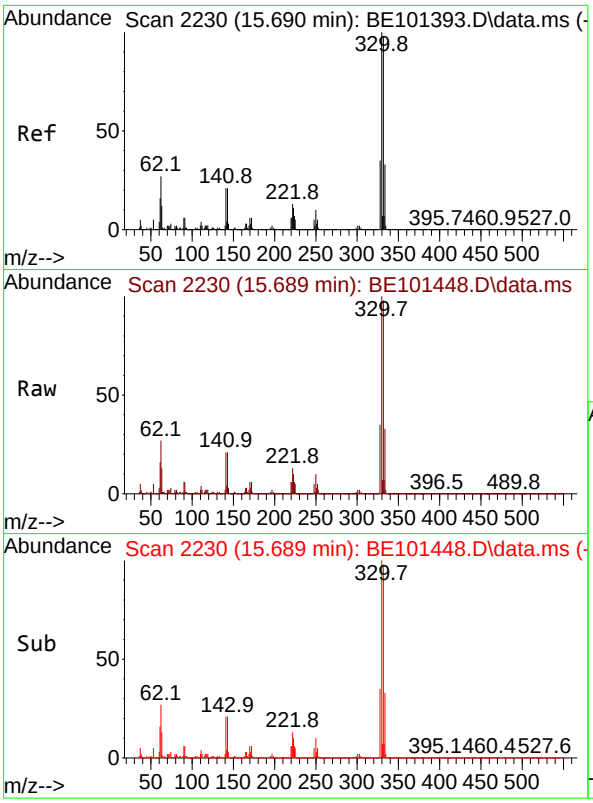


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.179 min Scan# 1973
Delta R.T. -0.001 min
Lab File: BE101448.D
Acq: 1 Nov 2024 14:33

Tgt Ion:164 Resp: 197789

Ion	Ratio	Lower	Upper
164	100		
162	102.1	81.3	121.9
160	45.4	36.4	54.6



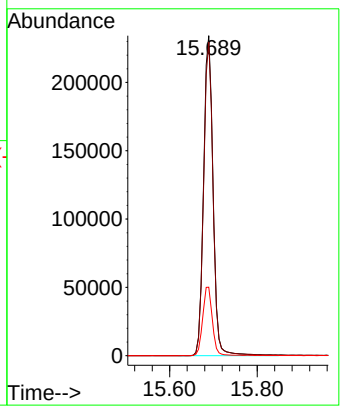


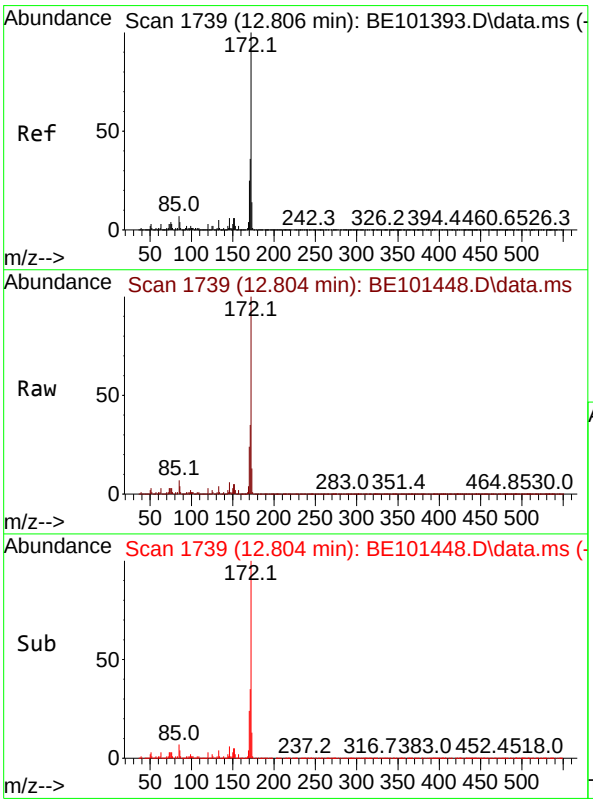
#42
2,4,6-Tribromophenol
Concen: 102.197 ng
RT: 15.689 min Scan# 2
Delta R.T. -0.001 min
Lab File: BE101448.D
Acq: 1 Nov 2024 14:33

Instrument :
BNA_E
ClientSampleId :
RES-BUILDING-PAD-NO-3

Tgt Ion:330 Resp: 354276

Ion	Ratio	Lower	Upper
330	100		
332	97.7	78.2	117.2
141	21.9	18.3	27.5

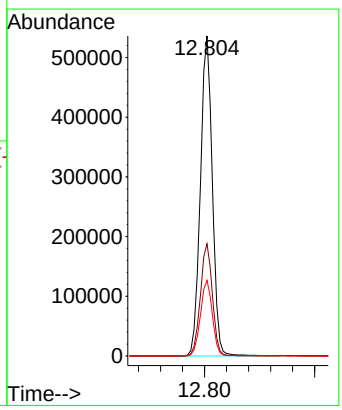


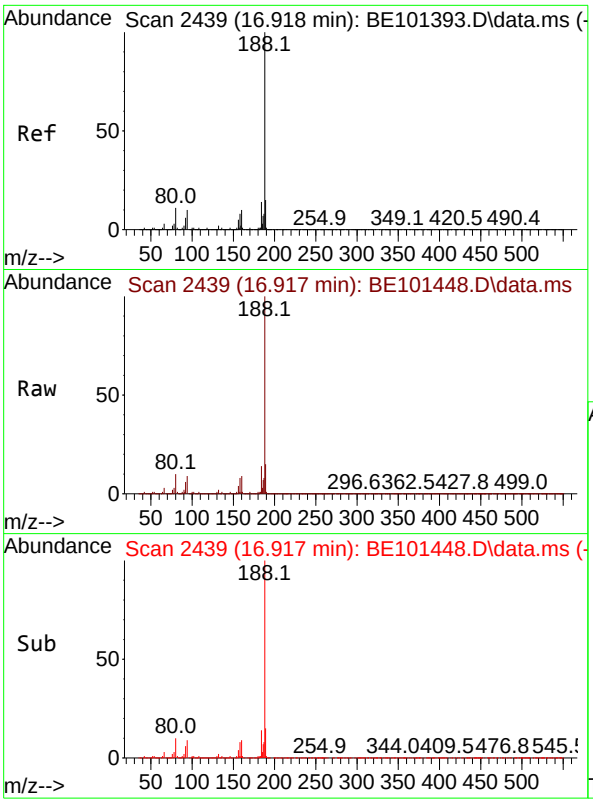


#45
2-Fluorobiphenyl
Concen: 68.944 ng
RT: 12.804 min Scan# 1739
Delta R.T. -0.001 min
Lab File: BE101448.D
Acq: 1 Nov 2024 14:33

Tgt Ion:172 Resp: 805201

Ion	Ratio	Lower	Upper
172	100		
171	35.0	29.2	43.8
170	23.6	19.8	29.6



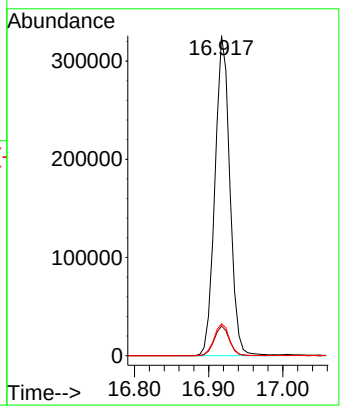


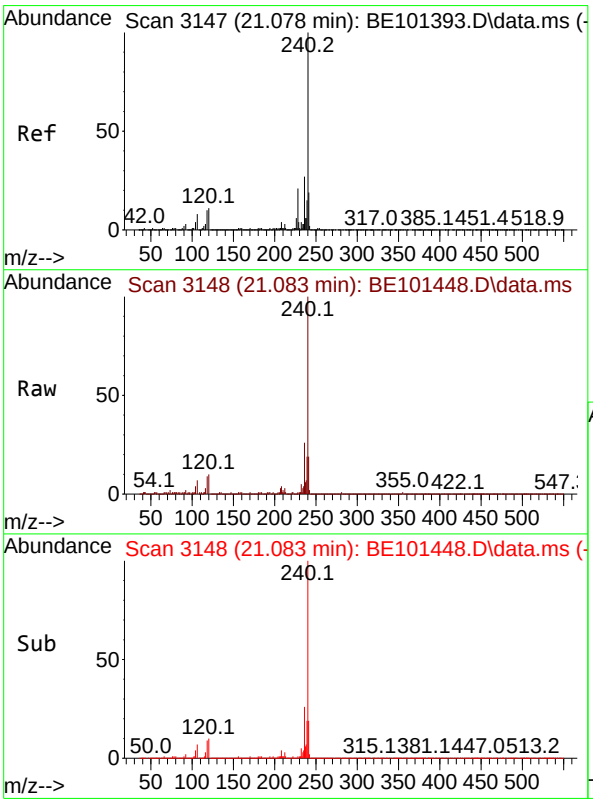
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 16.917 min Scan# 24
Delta R.T. -0.001 min
Lab File: BE101448.D
Acq: 1 Nov 2024 14:33

Instrument :
BNA_E
ClientSampleId :
RES-BUILDING-PAD-NO-3

Tgt Ion:188 Resp: 455282

Ion	Ratio	Lower	Upper
188	100		
94	9.3	7.8	11.8
80	10.0	8.6	12.8

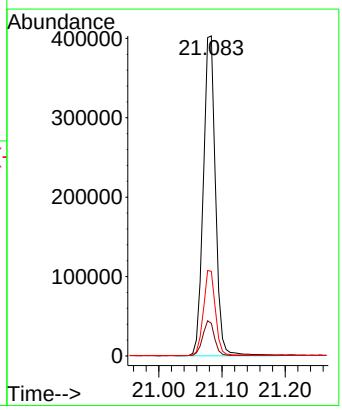


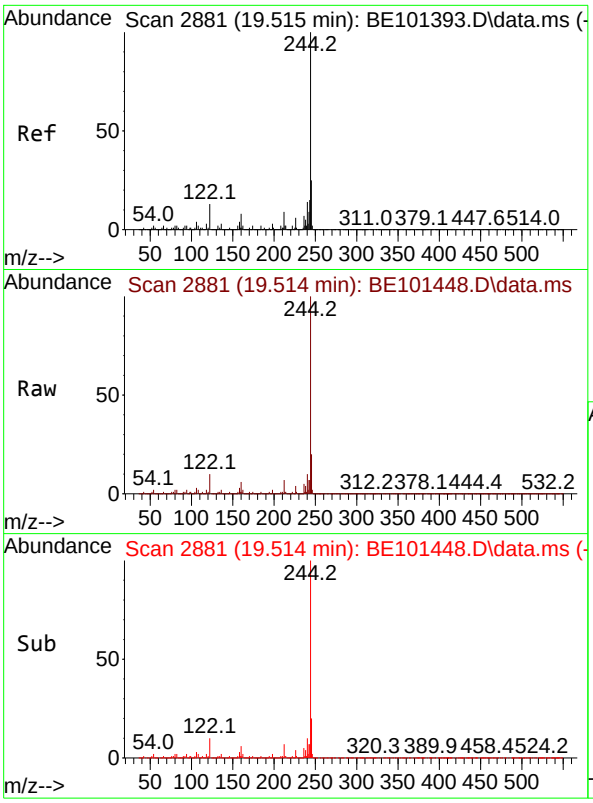


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.083 min Scan# 3148
Delta R.T. 0.005 min
Lab File: BE101448.D
Acq: 1 Nov 2024 14:33

Tgt Ion:240 Resp: 540190

Ion	Ratio	Lower	Upper
240	100		
120	10.2	9.0	13.4
236	26.5	21.4	32.0



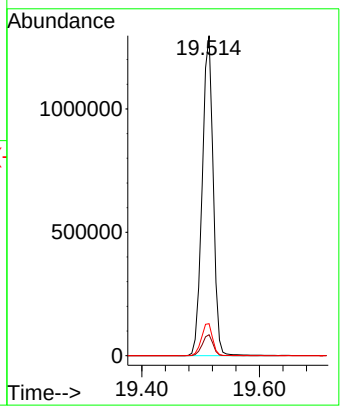


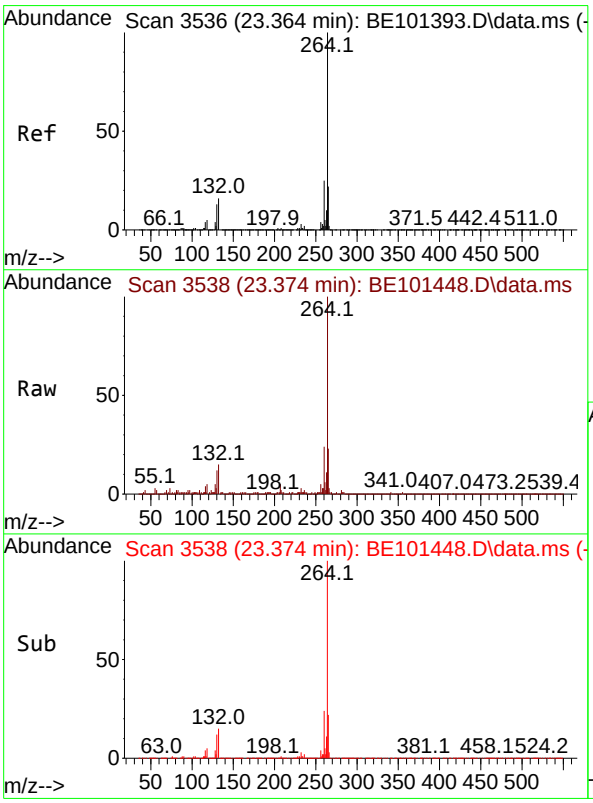
#79
Terphenyl-d14
Concen: 71.763 ng
RT: 19.514 min Scan# 2
Delta R.T. -0.001 min
Lab File: BE101448.D
Acq: 1 Nov 2024 14:33

Instrument :
BNA_E
ClientSampleId :
RES-BUILDING-PAD-NO-3

Tgt Ion:244 Resp: 1684321

Ion	Ratio	Lower	Upper
244	100		
212	6.6	7.2	10.8#
122	10.0	10.4	15.6#

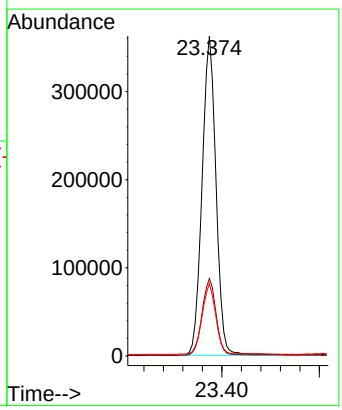




#86
Perylene-d12
Concen: 20.000 ng
RT: 23.374 min Scan# 3538
Delta R.T. 0.011 min
Lab File: BE101448.D
Acq: 1 Nov 2024 14:33

Tgt Ion:264 Resp: 717080

Ion	Ratio	Lower	Upper
264	100		
260	24.2	19.8	29.8
265	22.7	17.6	26.4



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF110124\
Data File : BF140208.D
Acq On : 01 Nov 2024 14:00
Operator : RC/JU
Sample : P4663-08
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
RES-BUILDING-PAD-NO-2

Quant Time: Nov 01 14:53:33 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration

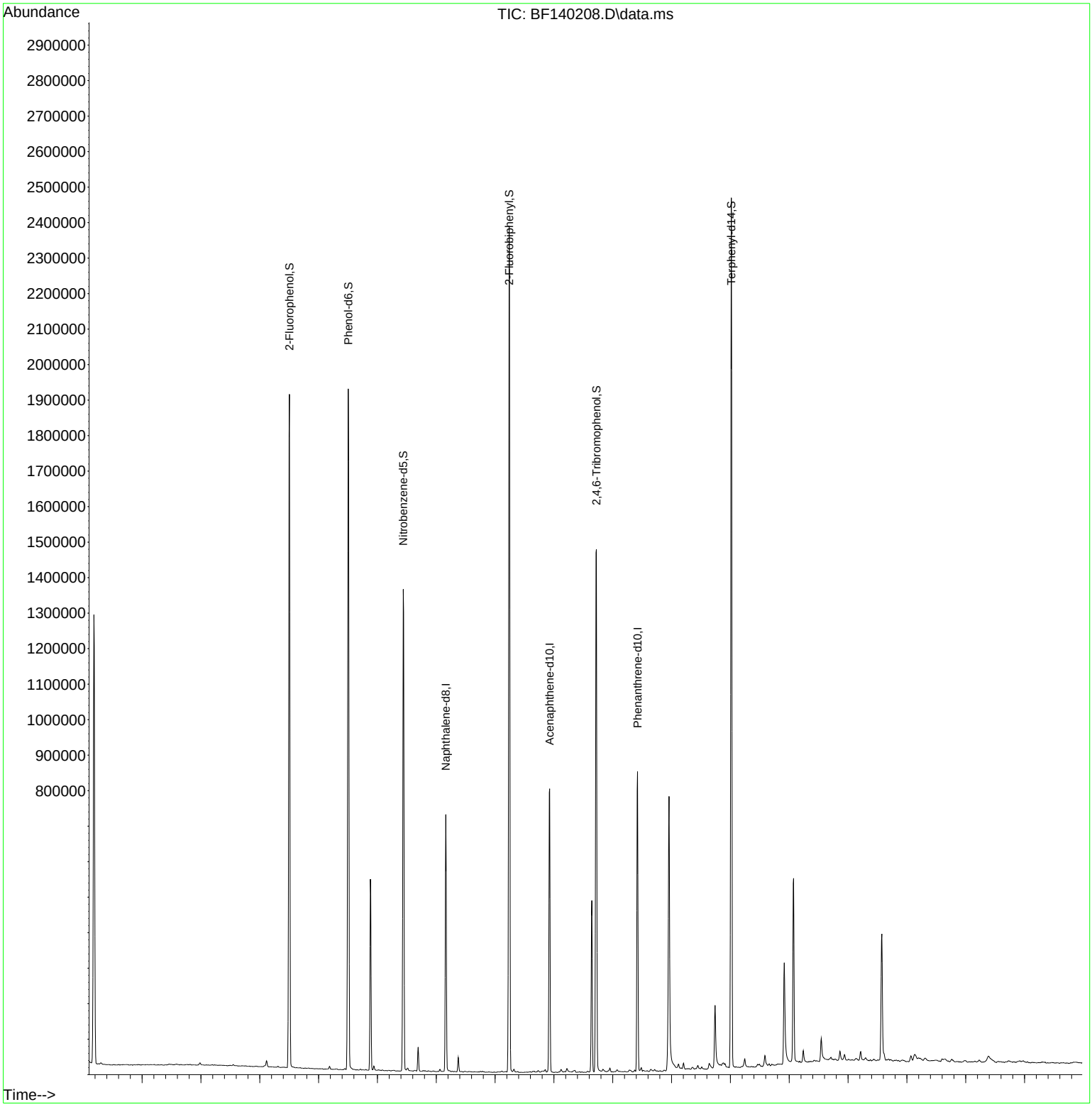
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.881	152	105943	20.000	ng	-0.01
21) Naphthalene-d8	8.163	136	422510	20.000	ng	-0.01
39) Acenaphthene-d10	9.927	164	242556	20.000	ng	0.00
64) Phenanthrene-d10	11.421	188	447541	20.000	ng	0.00
76) Chrysene-d12	14.074	240	249474	20.000	ng	0.02
86) Perylene-d12	15.574	264	218114	20.000	ng	0.05
System Monitoring Compounds						
5) 2-Fluorophenol	5.504	112	686919	101.504	ng	0.00
7) Phenol-d6	6.504	99	886554	101.148	ng	0.00
23) Nitrobenzene-d5	7.439	82	607199	79.651	ng	-0.01
42) 2,4,6-Tribromophenol	10.722	330	253967	111.939	ng	0.00
45) 2-Fluorobiphenyl	9.239	172	1101325	75.041	ng	-0.01
79) Terphenyl-d14	13.015	244	1224403	79.974	ng	0.02
Target Compounds						Qvalue

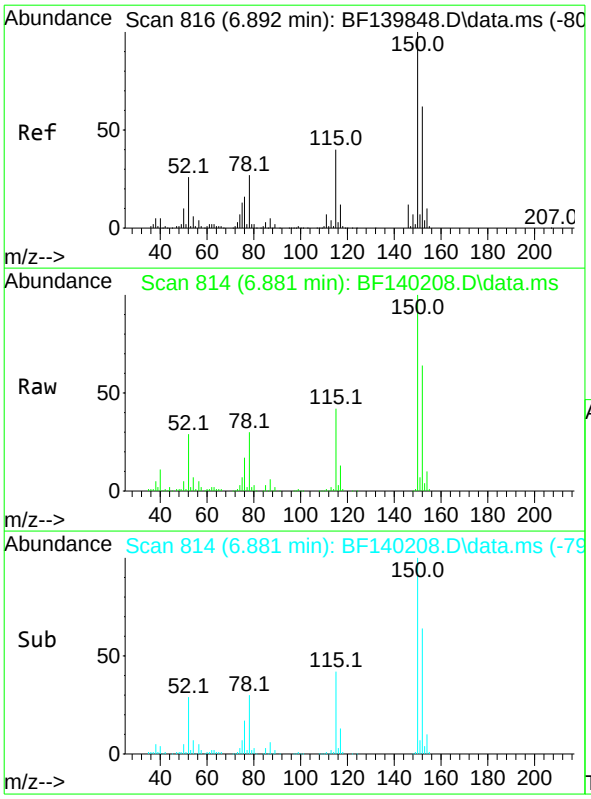
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF110124\
Data File : BF140208.D
Acq On : 01 Nov 2024 14:00
Operator : RC/JU
Sample : P4663-08
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
RES-BUILDING-PAD-NO-2

Quant Time: Nov 01 14:53:33 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration



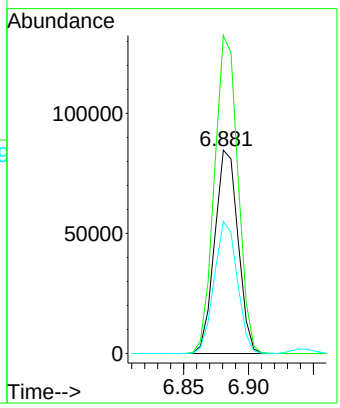


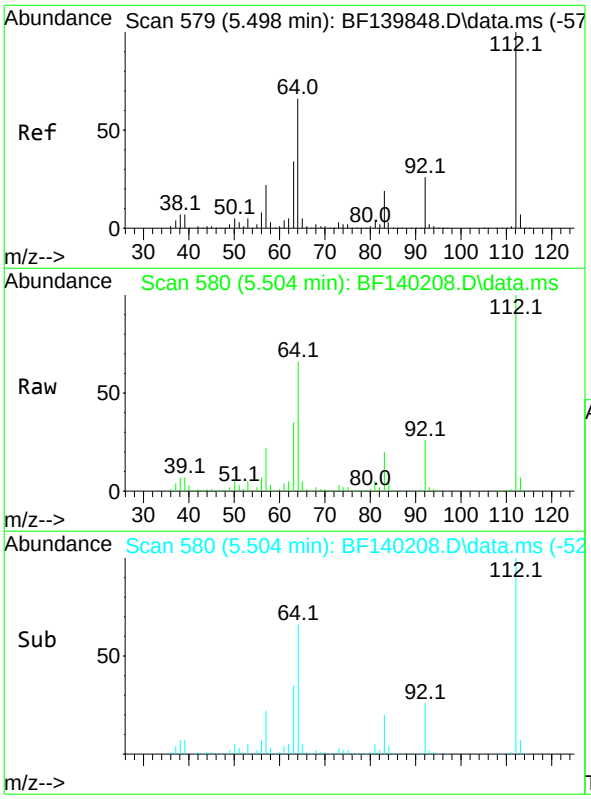
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.881 min Scan# 81
Delta R.T. -0.011 min
Lab File: BF140208.D
Acq: 01 Nov 2024 14:00

Instrument :
BNA_F
ClientSampleId :
RES-BUILDING-PAD-NO-2

Tgt Ion:152 Resp: 105943

Ion	Ratio	Lower	Upper
152	100		
150	156.4	130.2	195.2
115	64.9	51.4	77.2

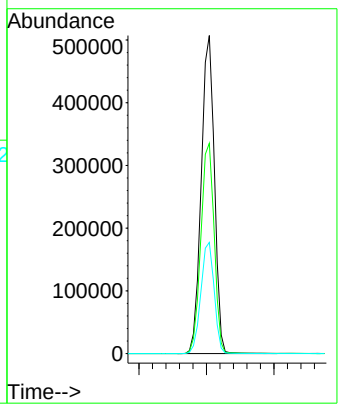


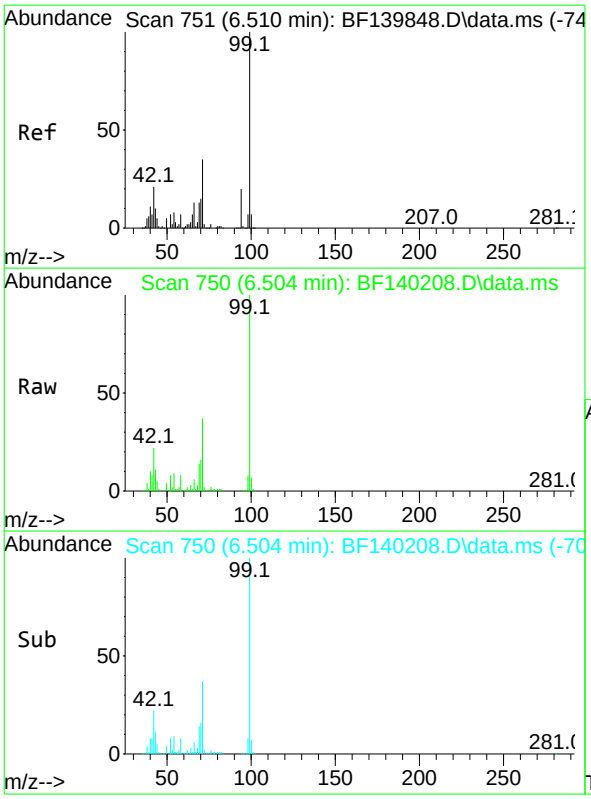


#5
2-Fluorophenol
Concen: 101.504 ng
RT: 5.504 min Scan# 580
Delta R.T. 0.006 min
Lab File: BF140208.D
Acq: 01 Nov 2024 14:00

Tgt Ion:112 Resp: 686919

Ion	Ratio	Lower	Upper
112	100		
64	66.1	53.0	79.6
63	35.0	27.0	40.4



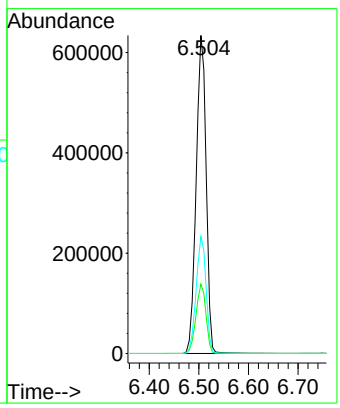


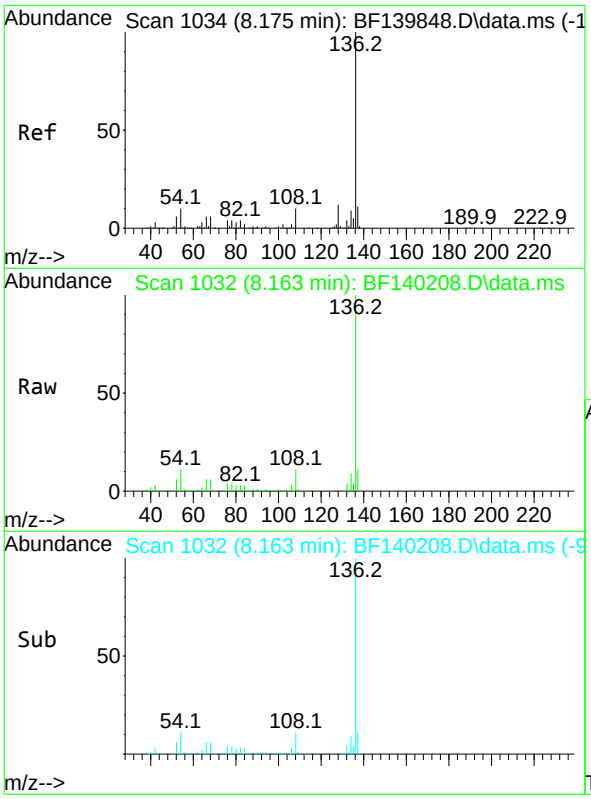
#7
Phenol-d6
Concen: 101.148 ng
RT: 6.504 min Scan# 75
Delta R.T. -0.006 min
Lab File: BF140208.D
Acq: 01 Nov 2024 14:00

Instrument :
BNA_F
ClientSampleId :
RES-BUILDING-PAD-NO-2

Tgt Ion: 99 Resp: 886554

Ion	Ratio	Lower	Upper
99	100		
42	21.8	16.7	25.1
71	36.8	27.7	41.5

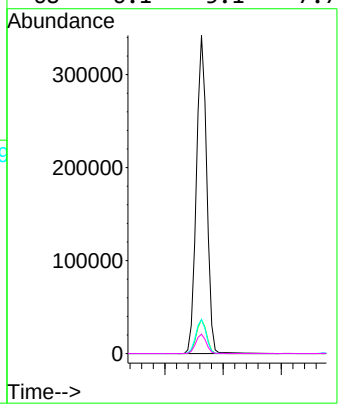


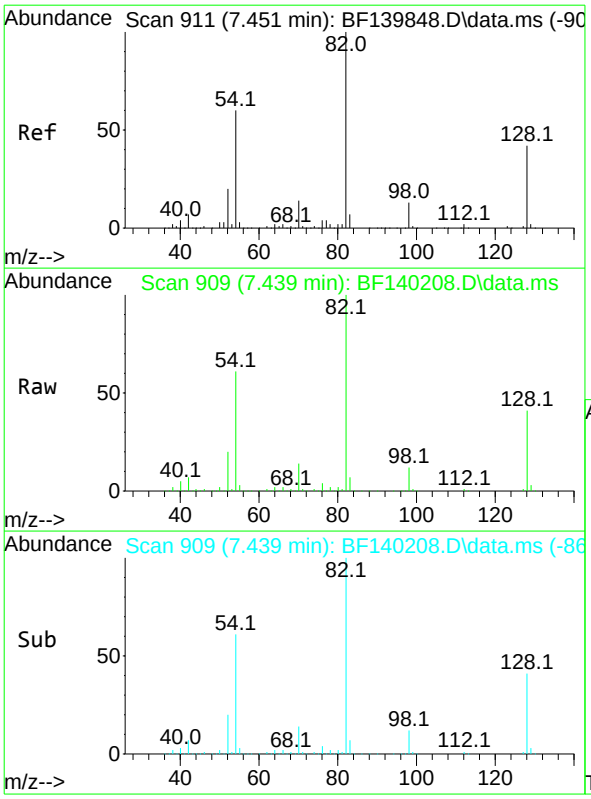


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.163 min Scan# 1032
Delta R.T. -0.012 min
Lab File: BF140208.D
Acq: 01 Nov 2024 14:00

Tgt Ion:136 Resp: 422510

Ion	Ratio	Lower	Upper
136	100		
137	10.7	8.6	12.8
54	10.7	8.4	12.6
68	6.1	5.1	7.7



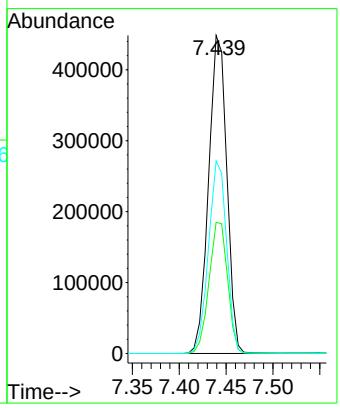


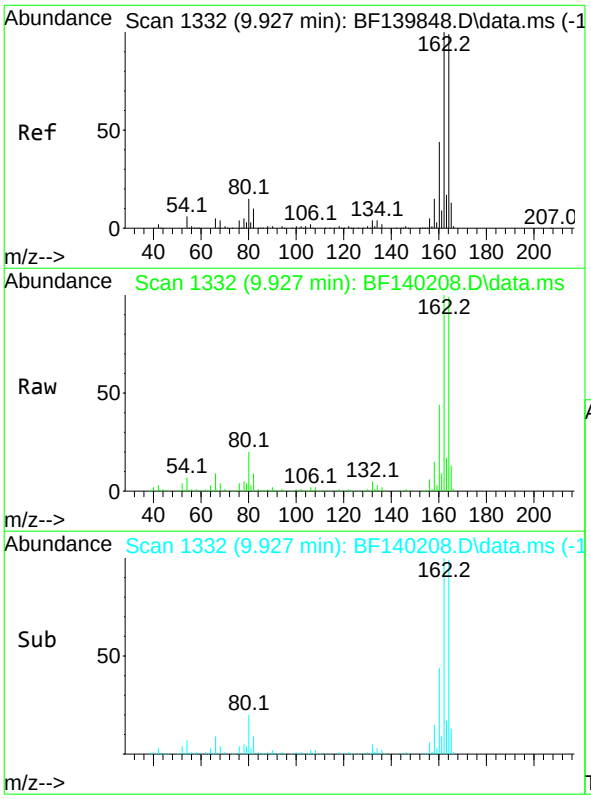
#23
Nitrobenzene-d5
Concen: 79.651 ng
RT: 7.439 min Scan# 90
Delta R.T. -0.012 min
Lab File: BF140208.D
Acq: 01 Nov 2024 14:00

Instrument :
BNA_F
ClientSampleId :
RES-BUILDING-PAD-NO-2

Tgt Ion: 82 Resp: 607199

Ion	Ratio	Lower	Upper
82	100		
128	41.2	33.4	50.0
54	60.5	47.8	71.8

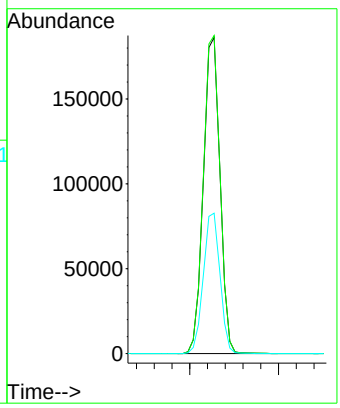


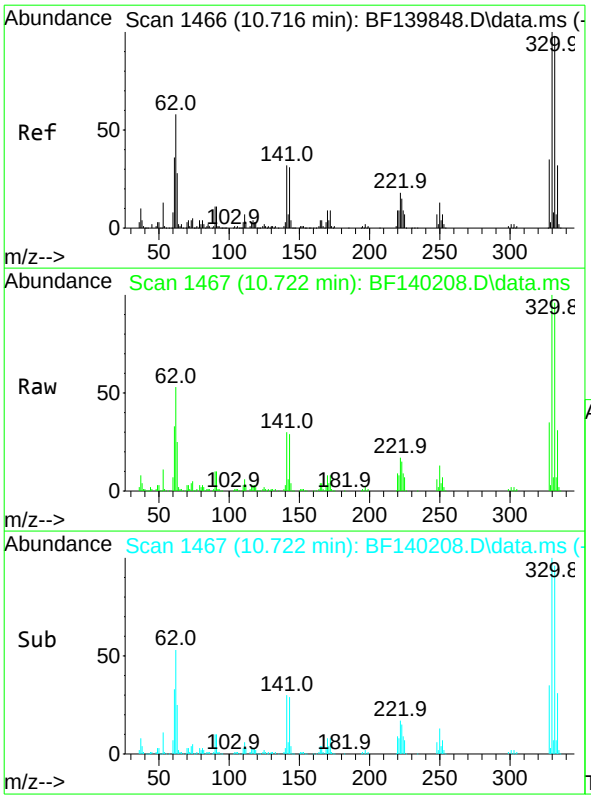


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.927 min Scan# 1332
Delta R.T. 0.000 min
Lab File: BF140208.D
Acq: 01 Nov 2024 14:00

Tgt Ion:164 Resp: 242556

Ion	Ratio	Lower	Upper
164	100		
162	100.6	81.0	121.4
160	44.4	35.4	53.0



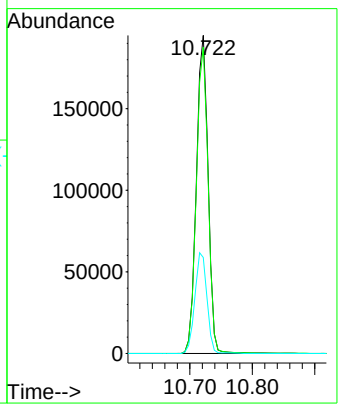


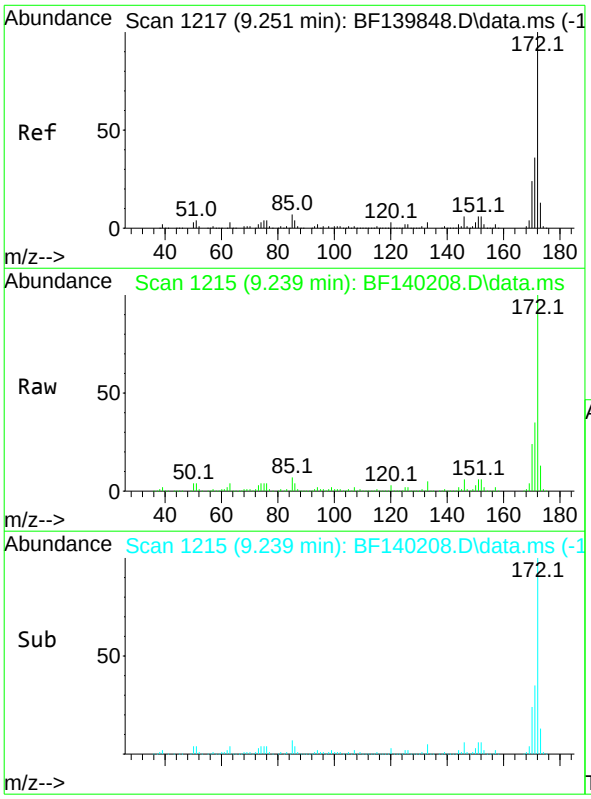
#42
2,4,6-Tribromophenol
Concen: 111.939 ng
RT: 10.722 min Scan# 14
Delta R.T. 0.006 min
Lab File: BF140208.D
Acq: 01 Nov 2024 14:00

Instrument :
BNA_F
ClientSampleId :
RES-BUILDING-PAD-NO-2

Tgt Ion:330 Resp: 253967

Ion	Ratio	Lower	Upper
330	100		
332	96.8	78.1	117.1
141	32.7	26.6	39.8

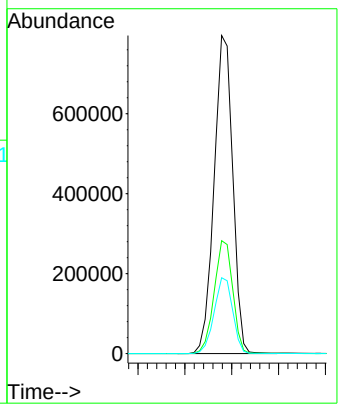


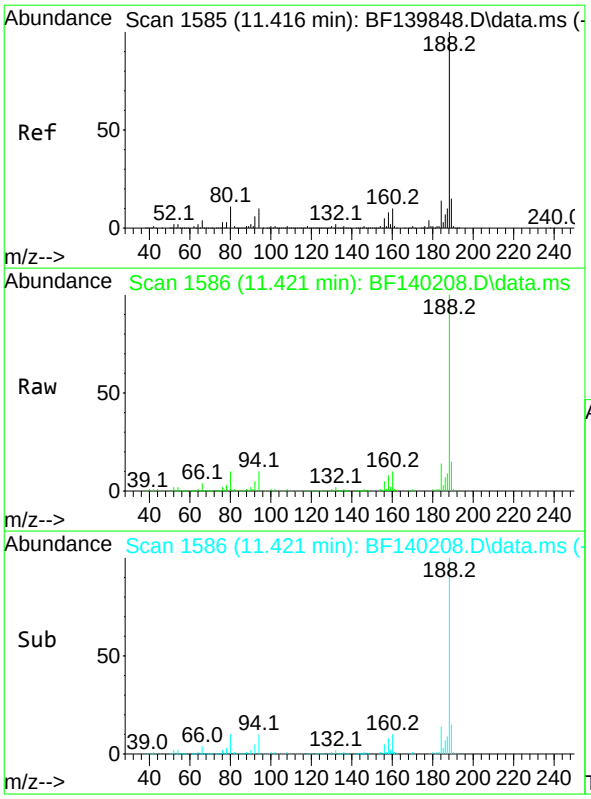


#45
2-Fluorobiphenyl
Concen: 75.041 ng
RT: 9.239 min Scan# 1215
Delta R.T. -0.012 min
Lab File: BF140208.D
Acq: 01 Nov 2024 14:00

Tgt Ion:172 Resp: 1101325

Ion	Ratio	Lower	Upper
172	100		
171	35.5	28.6	43.0
170	23.8	19.1	28.7



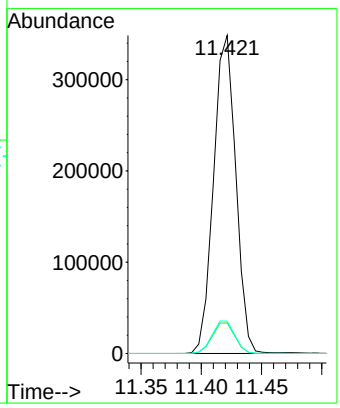


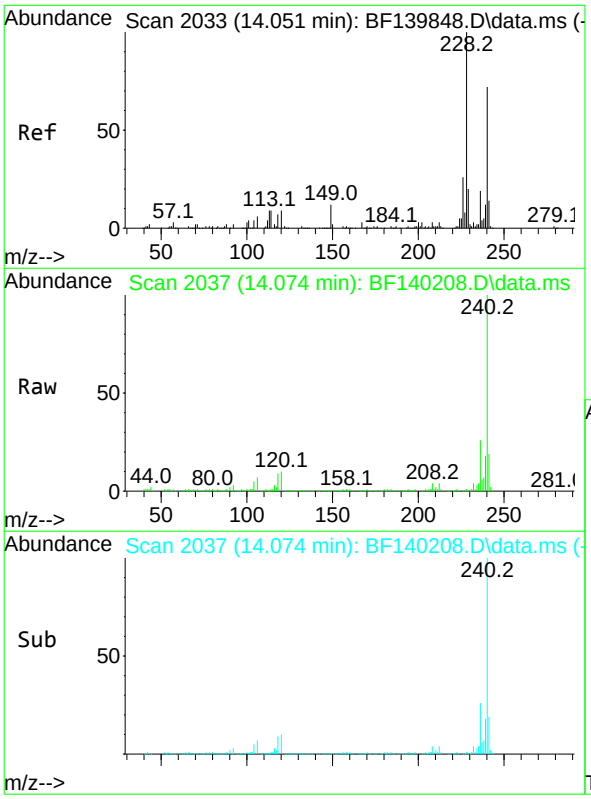
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.421 min Scan# 15
Delta R.T. 0.006 min
Lab File: BF140208.D
Acq: 01 Nov 2024 14:00

Instrument :
BNA_F
ClientSampleId :
RES-BUILDING-PAD-NO-2

Tgt Ion:188 Resp: 447541

Ion	Ratio	Lower	Upper
188	100		
94	9.6	7.9	11.9
80	10.2	9.0	13.4

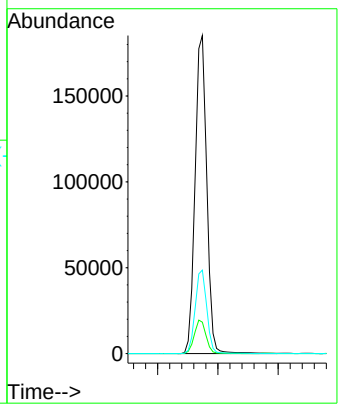


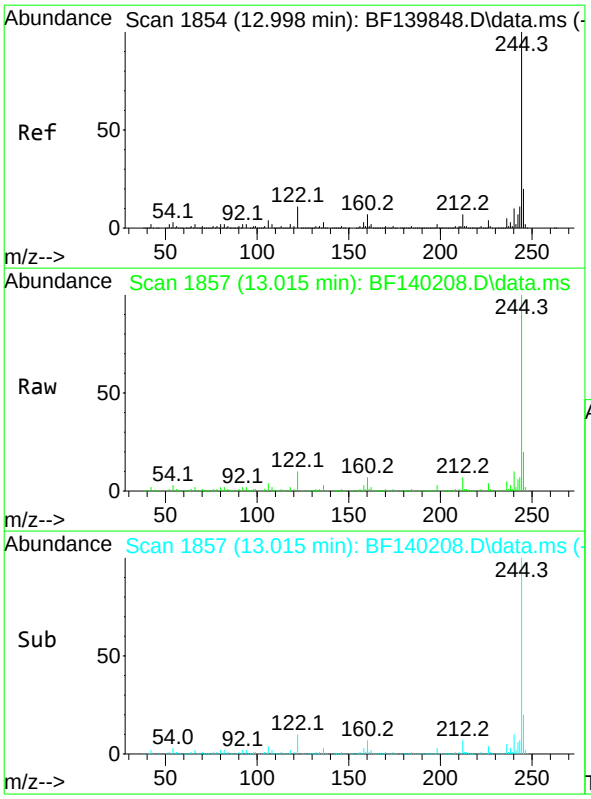


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.074 min Scan# 2037
Delta R.T. 0.024 min
Lab File: BF140208.D
Acq: 01 Nov 2024 14:00

Tgt Ion:240 Resp: 249474

Ion	Ratio	Lower	Upper
240	100		
120	9.9	9.4	14.2
236	26.2	20.9	31.3



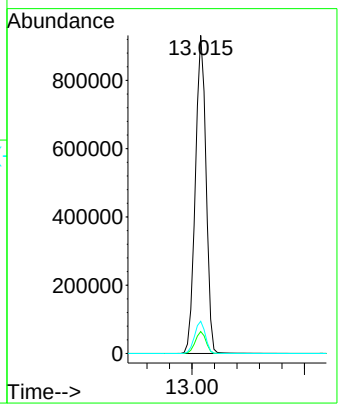


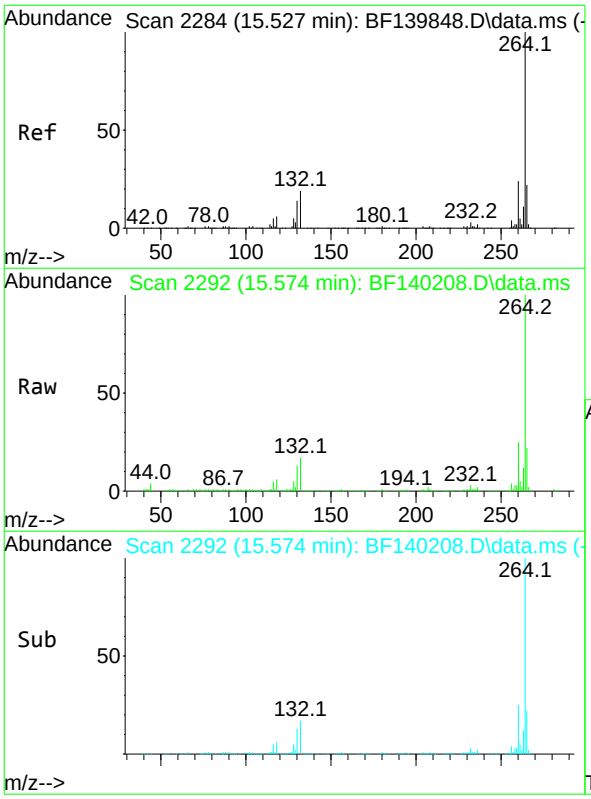
#79
Terphenyl-d14
Concen: 79.974 ng
RT: 13.015 min Scan# 18
Delta R.T. 0.018 min
Lab File: BF140208.D
Acq: 01 Nov 2024 14:00

Instrument :
BNA_F
ClientSampleId :
RES-BUILDING-PAD-NO-2

Tgt Ion:244 Resp: 1224403

Ion	Ratio	Lower	Upper
244	100		
212	6.9	5.7	8.5
122	10.1	8.6	13.0

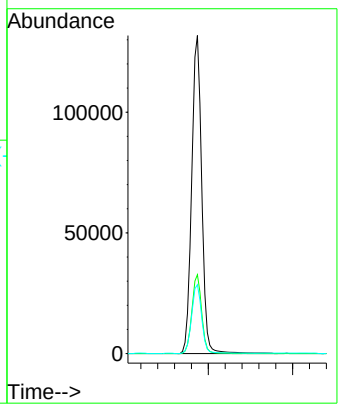




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.574 min Scan# 2292
Delta R.T. 0.047 min
Lab File: BF140208.D
Acq: 01 Nov 2024 14:00

Tgt Ion:264 Resp: 218114

Ion	Ratio	Lower	Upper
264	100		
260	24.8	19.4	29.2
265	21.7	17.4	26.0



Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE110424\
Data File : BE101454.D
Acq On : 4 Nov 2024 13:25
Operator : RC/JU
Sample : PB164593BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_E
ClientSampleId :
PB164593BL

Quant Time: Nov 04 13:19:19 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 29 01:26:30 2024
Response via : Initial Calibration

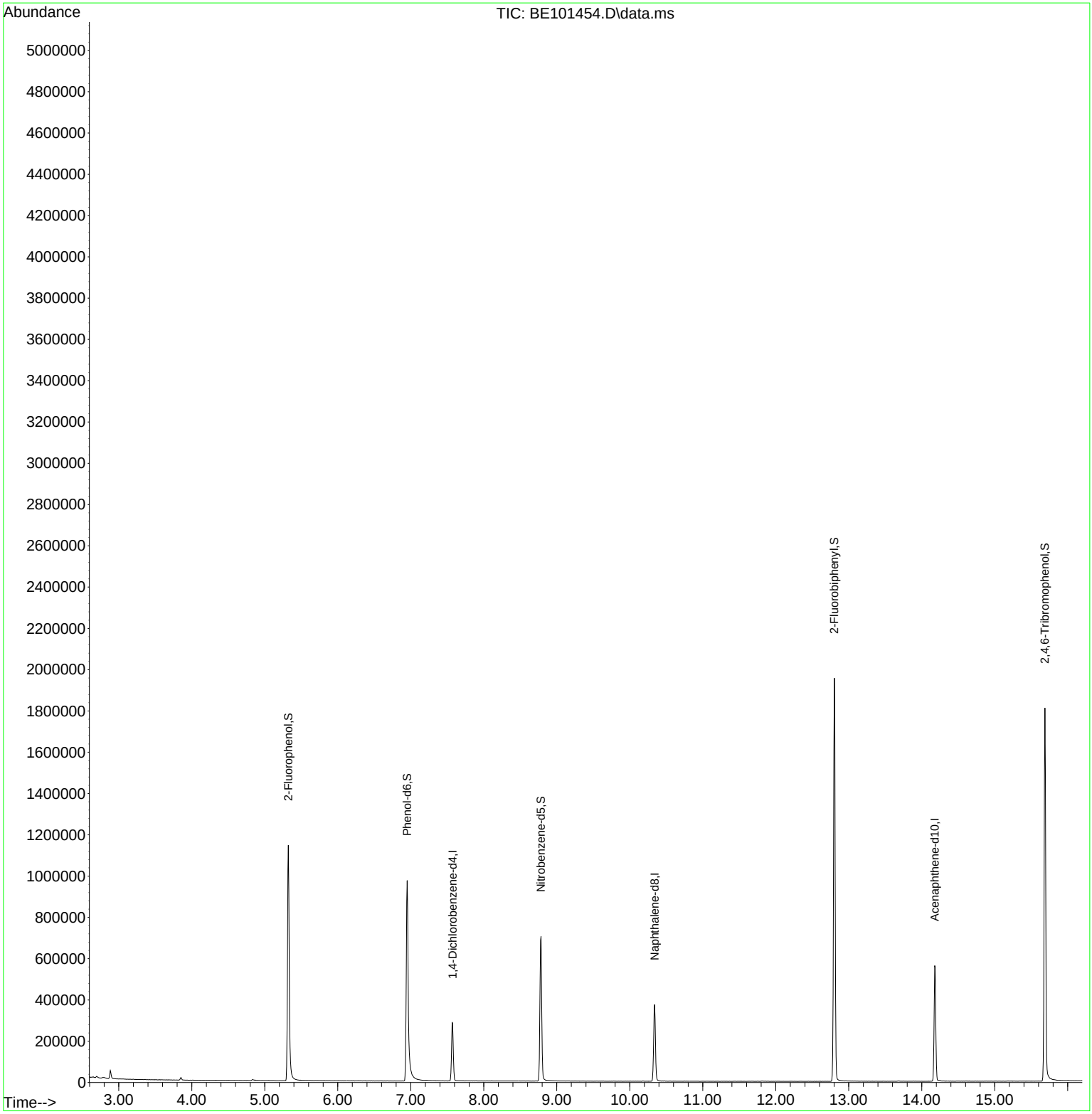
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.573	152	83697	20.000	ng	0.00
21) Naphthalene-d8	10.341	136	332383	20.000	ng	0.00
39) Acenaphthene-d10	14.177	164	209474	20.000	ng	0.00
64) Phenanthrene-d10	16.915	188	478774	20.000	ng	0.00
76) Chrysene-d12	21.075	240	637683	20.000	ng	0.00
86) Perylene-d12	23.372	264	926419	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.323	112	599545	125.548	ng	0.00
7) Phenol-d6	6.951	99	740437	111.822	ng	0.00
23) Nitrobenzene-d5	8.784	82	428697	81.009	ng	0.00
42) 2,4,6-Tribromophenol	15.687	330	459560	125.173	ng	0.00
45) 2-Fluorobiphenyl	12.802	172	1067682	86.319	ng	0.00
79) Terphenyl-d14	19.512	244	2218492	80.071	ng	0.00
Target Compounds						Qvalue

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE110424\
Data File : BE101454.D
Acq On : 4 Nov 2024 13:25
Operator : RC/JU
Sample : PB164593BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_E
ClientSampleId :
PB164593BL

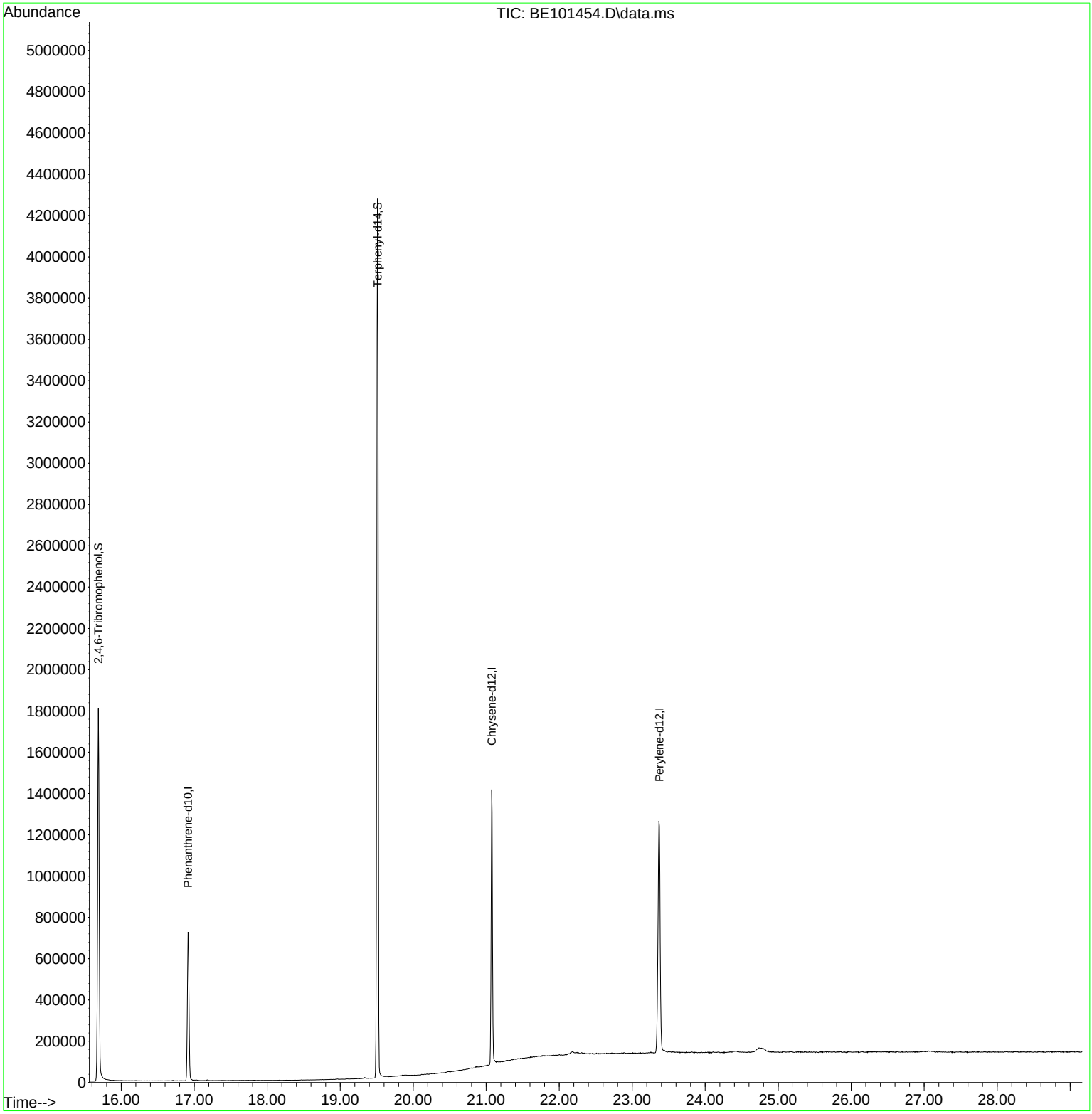
Quant Time: Nov 04 13:19:19 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 29 01:26:30 2024
Response via : Initial Calibration

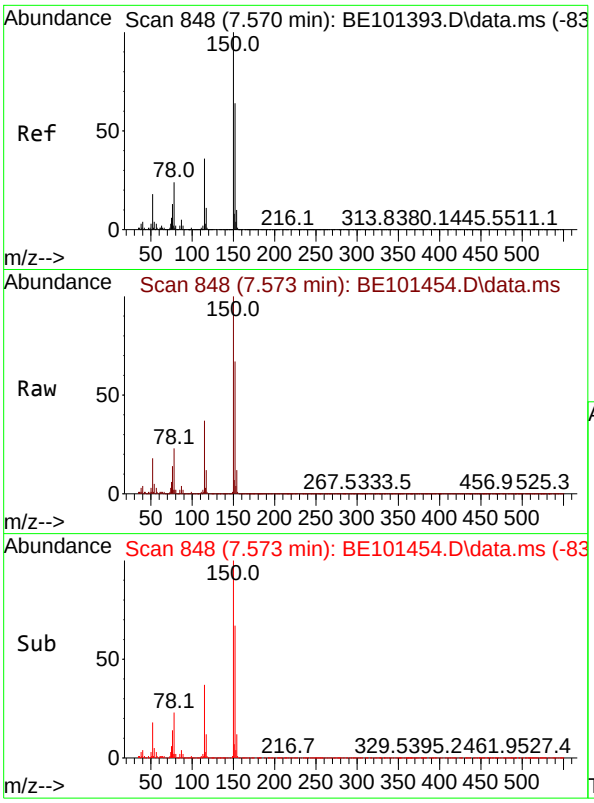


Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE110424\
Data File : BE101454.D
Acq On : 4 Nov 2024 13:25
Operator : RC/JU
Sample : PB164593BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_E
ClientSampleId :
PB164593BL

Quant Time: Nov 04 13:19:19 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 29 01:26:30 2024
Response via : Initial Calibration



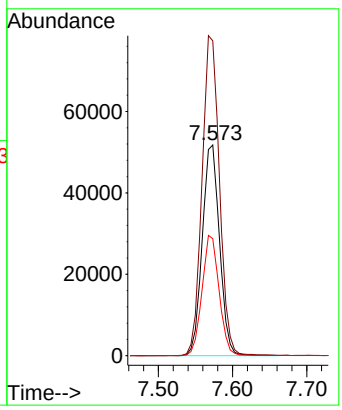


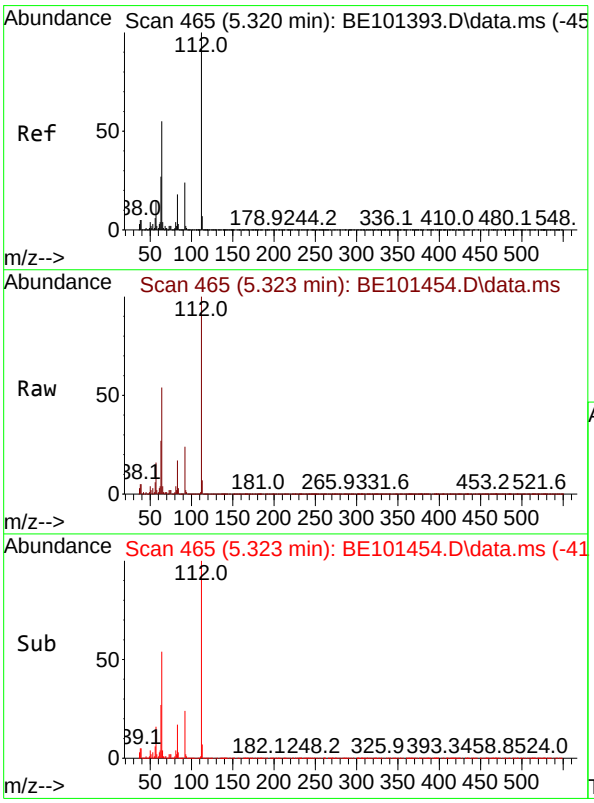
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.573 min Scan# 84
Delta R.T. 0.003 min
Lab File: BE101454.D
Acq: 4 Nov 2024 13:25

Instrument :
BNA_E
ClientSampleId :
PB164593BL

Tgt Ion:152 Resp: 83697

Ion	Ratio	Lower	Upper
152	100		
150	149.4	124.2	186.4
115	55.5	45.3	67.9

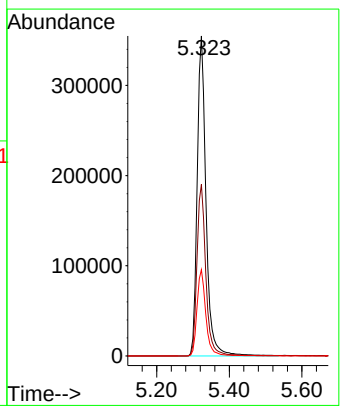


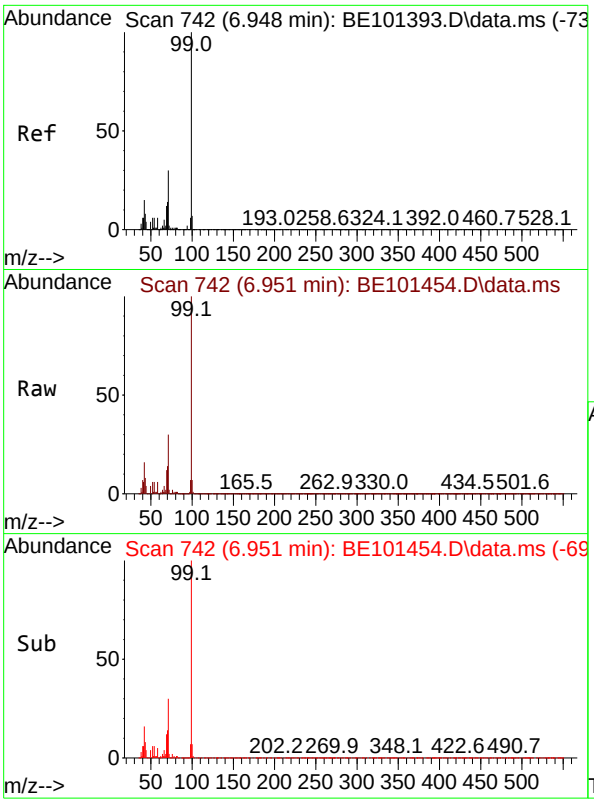


#5
2-Fluorophenol
Concen: 125.548 ng
RT: 5.323 min Scan# 465
Delta R.T. 0.003 min
Lab File: BE101454.D
Acq: 4 Nov 2024 13:25

Tgt Ion:112 Resp: 599545

Ion	Ratio	Lower	Upper
112	100		
64	53.6	43.7	65.5
63	26.9	21.4	32.2



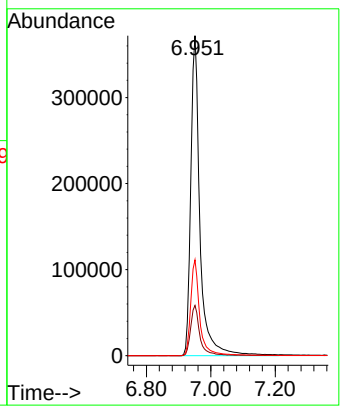


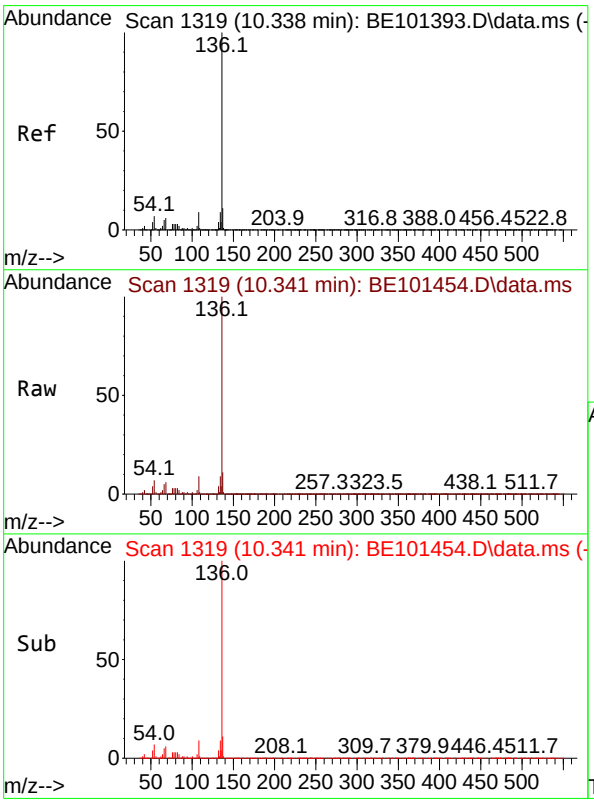
#7
Phenol-d6
Concen: 111.822 ng
RT: 6.951 min Scan# 74
Delta R.T. 0.003 min
Lab File: BE101454.D
Acq: 4 Nov 2024 13:25

Instrument :
BNA_E
ClientSampleId :
PB164593BL

Tgt Ion: 99 Resp: 740437

Ion	Ratio	Lower	Upper
99	100		
42	15.7	12.3	18.5
71	30.0	23.8	35.8

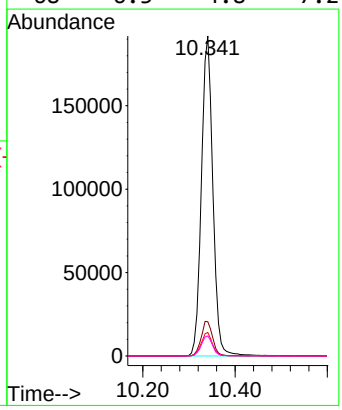


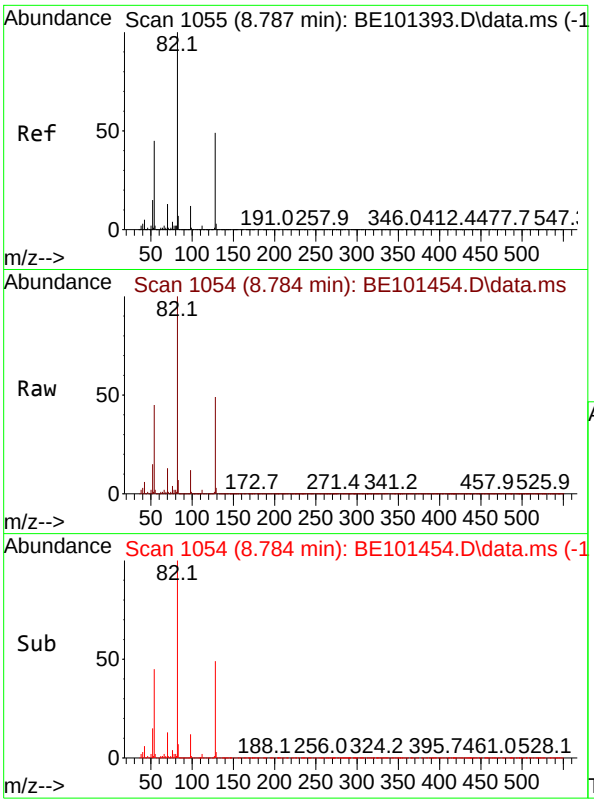


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.341 min Scan# 1319
Delta R.T. 0.003 min
Lab File: BE101454.D
Acq: 4 Nov 2024 13:25

Tgt Ion:136 Resp: 332383

Ion	Ratio	Lower	Upper
136	100		
137	10.7	9.0	13.6
54	7.3	5.9	8.9
68	6.3	4.8	7.2



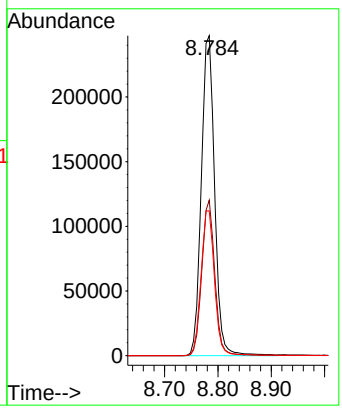


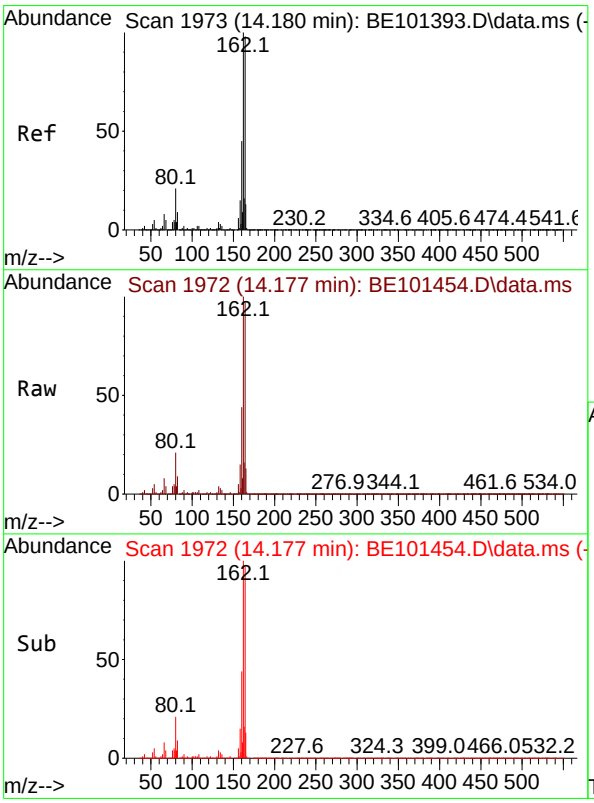
#23
Nitrobenzene-d5
Concen: 81.009 ng
RT: 8.784 min Scan# 1
Delta R.T. -0.003 min
Lab File: BE101454.D
Acq: 4 Nov 2024 13:25

Instrument :
BNA_E
ClientSampleId :
PB164593BL

Tgt Ion: 82 Resp: 428697

Ion	Ratio	Lower	Upper
82	100		
128	48.6	38.9	58.3
54	45.3	36.2	54.4

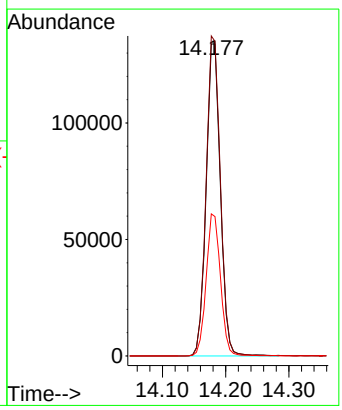


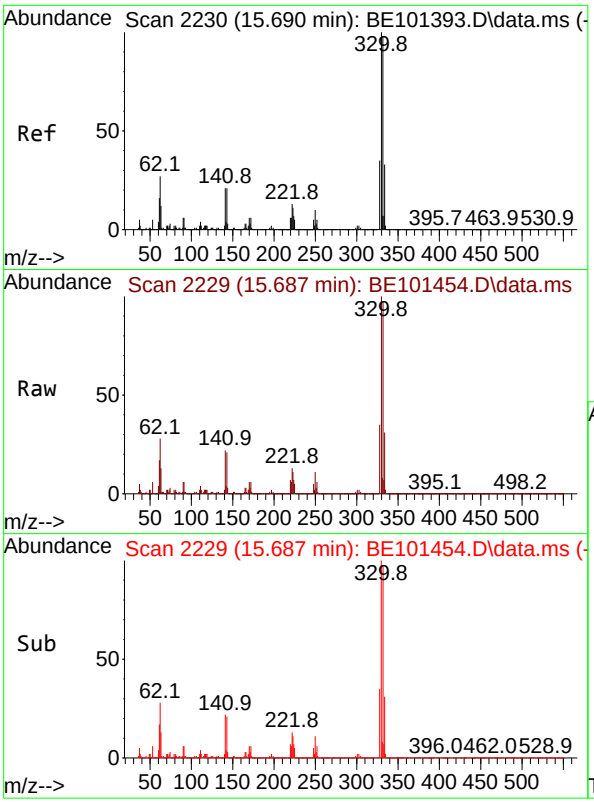


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.177 min Scan# 1972
Delta R.T. -0.003 min
Lab File: BE101454.D
Acq: 4 Nov 2024 13:25

Tgt Ion:164 Resp: 209474

Ion	Ratio	Lower	Upper
164	100		
162	102.6	81.3	121.9
160	45.5	36.4	54.6



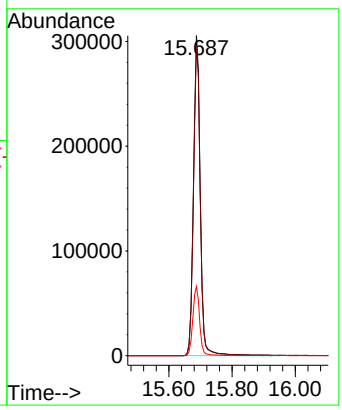


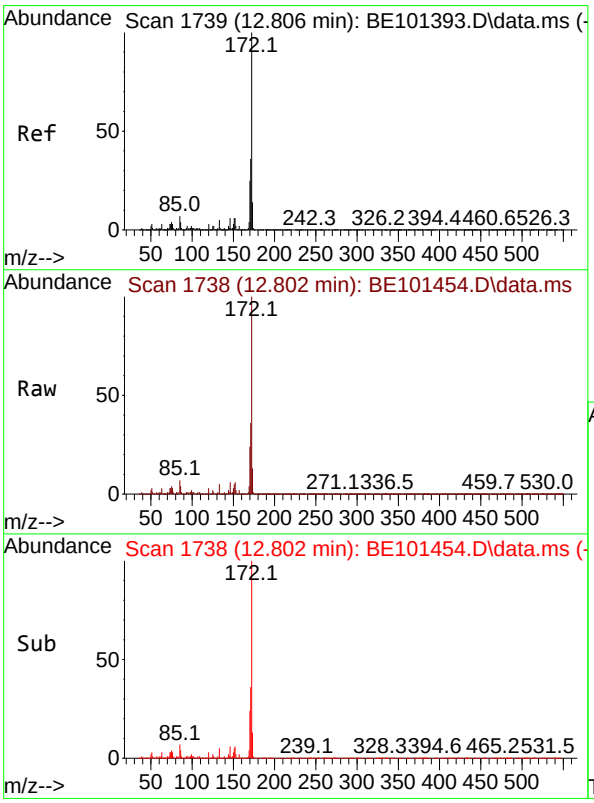
#42
2,4,6-Tribromophenol
Concen: 125.173 ng
RT: 15.687 min Scan# 2
Delta R.T. -0.003 min
Lab File: BE101454.D
Acq: 4 Nov 2024 13:25

Instrument :
BNA_E
ClientSampleId :
PB164593BL

Tgt Ion:330 Resp: 459560

Ion	Ratio	Lower	Upper
330	100		
332	96.6	78.2	117.2
141	21.8	18.3	27.5

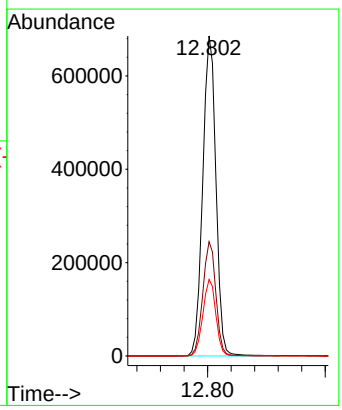


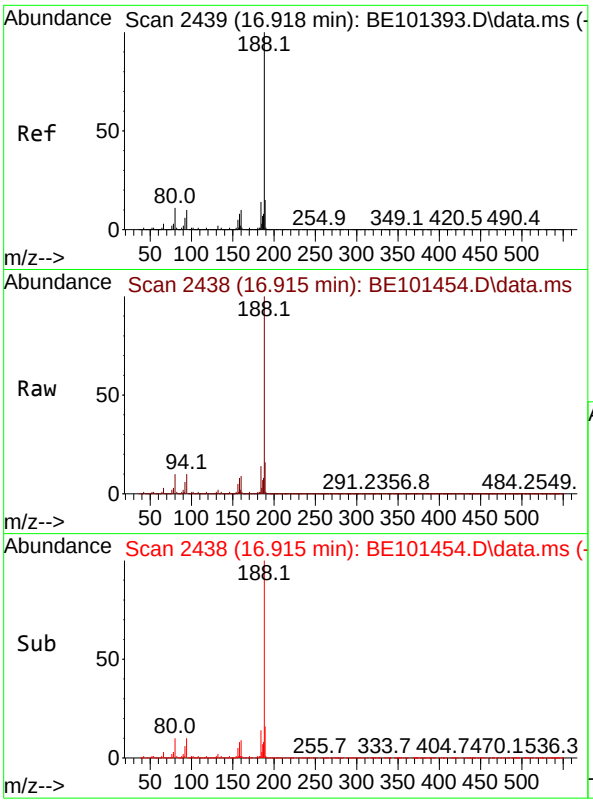


#45
2-Fluorobiphenyl
Concen: 86.319 ng
RT: 12.802 min Scan# 1738
Delta R.T. -0.003 min
Lab File: BE101454.D
Acq: 4 Nov 2024 13:25

Tgt Ion:172 Resp: 1067682

Ion	Ratio	Lower	Upper
172	100		
171	35.7	29.2	43.8
170	23.9	19.8	29.6



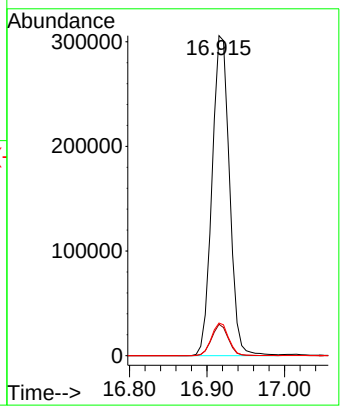


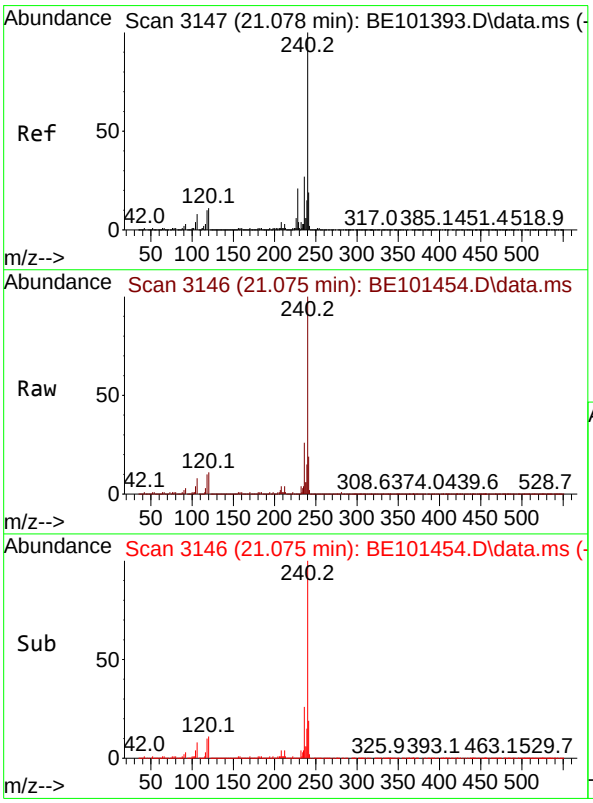
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 16.915 min Scan# 24
Delta R.T. -0.003 min
Lab File: BE101454.D
Acq: 4 Nov 2024 13:25

Instrument :
BNA_E
ClientSampleId :
PB164593BL

Tgt Ion:188 Resp: 478774

Ion	Ratio	Lower	Upper
188	100		
94	9.8	7.8	11.8
80	10.2	8.6	12.8

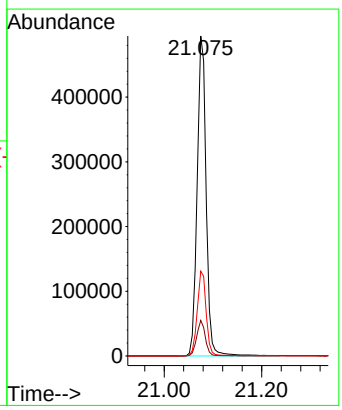


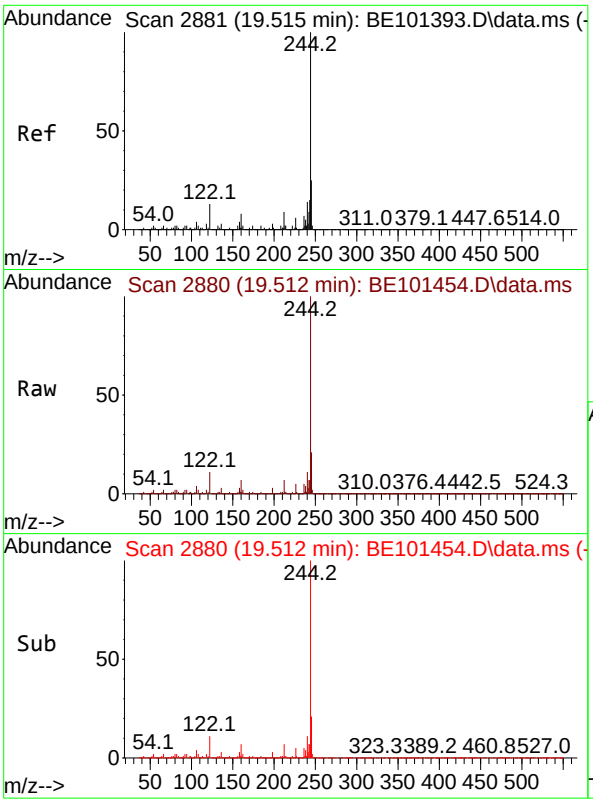


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.075 min Scan# 3146
Delta R.T. -0.003 min
Lab File: BE101454.D
Acq: 4 Nov 2024 13:25

Tgt Ion:240 Resp: 637683

Ion	Ratio	Lower	Upper
240	100		
120	11.1	9.0	13.4
236	26.5	21.4	32.0



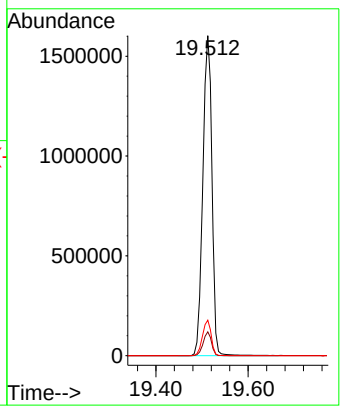


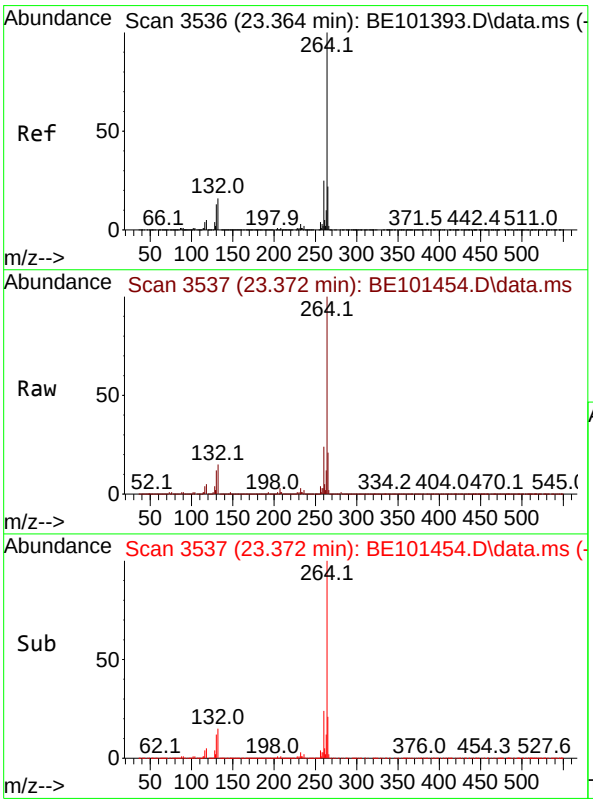
#79
Terphenyl-d14
Concen: 80.071 ng
RT: 19.512 min Scan# 2
Delta R.T. -0.003 min
Lab File: BE101454.D
Acq: 4 Nov 2024 13:25

Instrument :
BNA_E
ClientSampleId :
PB164593BL

Tgt Ion:244 Resp: 2218492

Ion	Ratio	Lower	Upper
244	100		
212	7.4	7.2	10.8
122	11.1	10.4	15.6

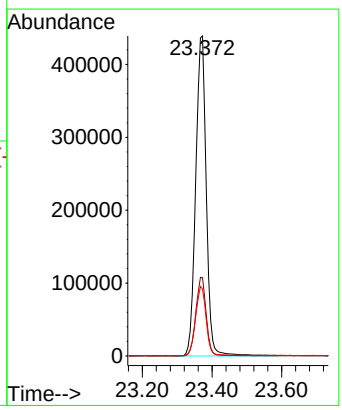




#86
Perylene-d12
Concen: 20.000 ng
RT: 23.372 min Scan# 3537
Delta R.T. 0.009 min
Lab File: BE101454.D
Acq: 4 Nov 2024 13:25

Tgt Ion:264 Resp: 926419

Ion	Ratio	Lower	Upper
264	100		
260	24.4	19.8	29.8
265	20.9	17.6	26.4



Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE110424\
Data File : BE101455.D
Acq On : 4 Nov 2024 14:04
Operator : RC/JU
Sample : PB164593BS
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 04 13:49:39 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 29 01:26:30 2024
Response via : Initial Calibration

Instrument :
BNA_E
ClientSampleId :
PB164593BS

Manual Integrations APPROVED

Reviewed By :Jagrut Upadhyay 11/05/2024
Supervised By :mohammad ahmed 11/06/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.571	152	76985	20.000	ng	0.00
21) Naphthalene-d8	10.338	136	325431	20.000	ng	0.00
39) Acenaphthene-d10	14.180	164	205486	20.000	ng	0.00
64) Phenanthrene-d10	16.918	188	423694	20.000	ng	0.00
76) Chrysene-d12	21.084	240	509474	20.000	ng	0.00
86) Perylene-d12	23.375	264	767672	20.000	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.320	112	693147	157.804	ng	0.00
7) Phenol-d6	6.954	99	871334	143.063	ng	0.00
23) Nitrobenzene-d5	8.787	82	520878	100.531	ng	0.00
42) 2,4,6-Tribromophenol	15.690	330	536480	148.960	ng	0.00
45) 2-Fluorobiphenyl	12.806	172	1306116	107.645	ng	0.00
79) Terphenyl-d14	19.515	244	2196084	99.208	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.205	88	70754	43.188	ng	98
3) Pyridine	3.628	79	191248	41.262	ng	96
4) n-Nitrosodimethylamine	3.552	42	91466	51.003	ng	95
6) Aniline	7.006	93	280379	60.068	ng	95
8) 2-Chlorophenol	7.218	128	264019	50.115	ng	100
9) Benzaldehyde	6.783	77	31743	10.796	ng	95
10) Phenol	6.977	94	339596	51.389	ng	98
11) bis(2-Chloroethyl)ether	7.042	93	230338m	42.488	ng	
12) 1,3-Dichlorobenzene	7.459	146	264906	46.632	ng	99
13) 1,4-Dichlorobenzene	7.606	146	271166	46.744	ng	98
14) 1,2-Dichlorobenzene	7.935	146	261397	46.034	ng	99
15) Benzyl Alcohol	7.911	79	172649	47.555	ng	98
16) 2,2'-oxybis(1-Chloropr...	8.070	45	313270	45.918	ng	99
17) 2-Methylphenol	8.158	107	209978	46.947	ng	97
18) Hexachloroethane	8.628	117	91892	48.506	ng	99
19) n-Nitroso-di-n-propyla...	8.375	70	178737	44.224	ng	99
20) 3+4-Methylphenols	8.493	107	284028	46.005	ng	98
22) Acetophenone	8.422	105	353960	47.902	ng	99
24) Nitrobenzene	8.822	77	259578	47.071	ng	99
25) Isophorone	9.274	82	483008	47.772	ng	99
26) 2-Nitrophenol	9.509	139	144486	54.209	ng	98
27) 2,4-Dimethylphenol	9.627	122	211356	63.017	ng	99
28) bis(2-Chloroethoxy)met...	9.774	93	297209	48.472	ng	99
29) 2,4-Dichlorophenol	10.062	162	242384	52.238	ng	98
30) 1,2,4-Trichlorobenzene	10.185	180	238677	47.219	ng	99
31) Naphthalene	10.391	128	784503	47.306	ng	100
32) Benzoic acid	9.897	122	60872	22.839	ng	98
33) 4-Chloroaniline	10.614	127	199490	34.594	ng	99
34) Hexachlorobutadiene	10.637	225	148547	49.649	ng	99
35) Caprolactam	11.401	113	78529m	44.152	ng	
36) 4-Chloro-3-methylphenol	11.795	107	248562	47.048	ng	100
37) 2-Methylnaphthalene	11.977	142	556424	46.572	ng	99
38) 1-Methylnaphthalene	12.206	142	519077	43.531	ng	99
40) 1,2,4,5-Tetrachloroben...	12.336	216	271384	52.610	ng	99
41) Hexachlorocyclopentadiene	12.318	237	362645	212.866	ng	98
43) 2,4,6-Trichlorophenol	12.659	196	195477	54.969	ng	99

Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE110424\
Data File : BE101455.D
Acq On : 4 Nov 2024 14:04
Operator : RC/JU
Sample : PB164593BS
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 04 13:49:39 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 29 01:26:30 2024
Response via : Initial Calibration

Instrument :
BNA_E
ClientSampleId :
PB164593BS

Manual Integrations APPROVED
Reviewed By :Jagrut Upadhyay 11/05/2024
Supervised By :mohammad ahmed 11/06/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	12.759	196	212637	52.215	ng	99
46) 1,1'-Biphenyl	13.011	154	719065	51.077	ng	99
47) 2-Chloronaphthalene	13.058	162	552759	49.697	ng	99
48) 2-Nitroaniline	13.387	65	157481	52.611	ng	95
49) Acenaphthylene	13.916	152	893146	54.300	ng	99
50) Dimethylphthalate	13.687	163	714638	49.270	ng	100
51) 2,6-Dinitrotoluene	13.828	165	156801	46.824	ng	95
52) Acenaphthene	14.245	154	537431	50.038	ng	99
53) 3-Nitroaniline	14.233	138	114689	34.442	ng	99
54) 2,4-Dinitrophenol	14.374	184	196055	82.228	ng	98
55) Dibenzofuran	14.586	168	847461	49.505	ng	99
56) 4-Nitrophenol	14.662	139	285451	93.609	ng	98
57) 2,4-Dinitrotoluene	14.609	165	222670	48.298	ng	98
58) Fluorene	15.226	166	695686	48.579	ng	98
59) 2,3,4,6-Tetrachlorophenol	14.856	232	191796	50.975	ng	98
60) Diethylphthalate	15.015	149	720038	47.460	ng	99
61) 4-Chlorophenyl-phenyle...	15.214	204	342444	48.188	ng	100
62) 4-Nitroaniline	15.426	138	160219	43.240	ng	98
63) Azobenzene	15.508	77	633307	48.563	ng	100
65) 4,6-Dinitro-2-methylph...	15.355	198	129900	52.175	ng	98
66) n-Nitrosodiphenylamine	15.461	169	615362	54.767	ng	100
67) 4-Bromophenyl-phenylether	16.102	248	237916	53.381	ng	95
68) Hexachlorobenzene	16.207	284	304031	52.043	ng	98
69) Atrazine	16.401	200	220213	63.929	ng	99
70) Pentachlorophenol	16.619	266	344687	102.503	ng	99
71) Phenanthrene	16.959	178	1077835	53.132	ng	98
72) Anthracene	17.048	178	1115084	56.294	ng	99
73) Carbazole	17.377	167	1030100	50.825	ng	99
74) Di-n-butylphthalate	17.823	149	1219240	54.644	ng	98
75) Fluoranthene	18.969	202	1269285	51.516	ng	97
77) Benzidine	19.216	184	668255	103.348	ng	99
78) Pyrene	19.339	202	1355159	48.369	ng	96
80) Butylbenzylphthalate	20.185	149	631301	51.399	ng	98
81) Benzo(a)anthracene	21.061	228	1556464	54.354	ng	97
82) 3,3'-Dichlorobenzidine	21.037	252	486539	43.373	ng	99
83) Chrysene	21.119	228	1485431	53.651	ng	96
84) Bis(2-ethylhexyl)phtha...	20.884	149	962224	58.972	ng	98
85) Di-n-octyl phthalate	21.736	149	1800783	67.243	ng	99
87) Indeno(1,2,3-cd)pyrene	25.720	276	2812176	54.737	ng	99
88) Benzo(b)fluoranthene	22.665	252	2045650	51.133	ng	98
89) Benzo(k)fluoranthene	22.712	252	1887959	50.512	ng	97
90) Benzo(a)pyrene	23.270	252	1952639	55.809	ng	99
91) Dibenzo(a,h)anthracene	25.708	278	2310859	54.435	ng	99
92) Benzo(g,h,i)perylene	26.466	276	2172231	49.662	ng	99

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

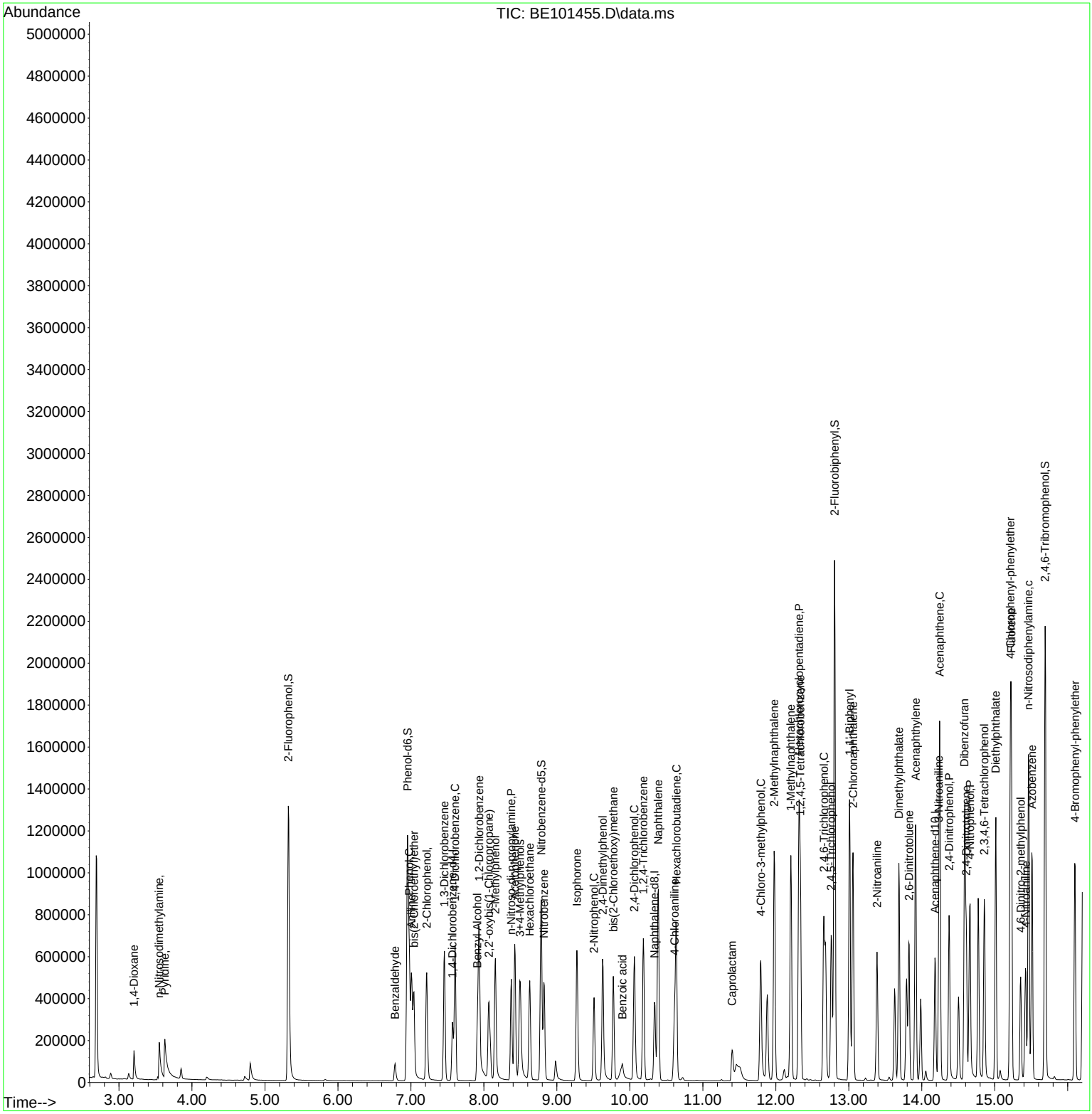
Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE110424\
Data File : BE101455.D
Acq On : 4 Nov 2024 14:04
Operator : RC/JU
Sample : PB164593BS
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 04 13:49:39 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 29 01:26:30 2024
Response via : Initial Calibration

Instrument :
BNA_E
ClientSampleId :
PB164593BS

Manual Integrations APPROVED

Reviewed By :Jagrut Upadhyay 11/05/2024
Supervised By :mohammad ahmed 11/06/2024



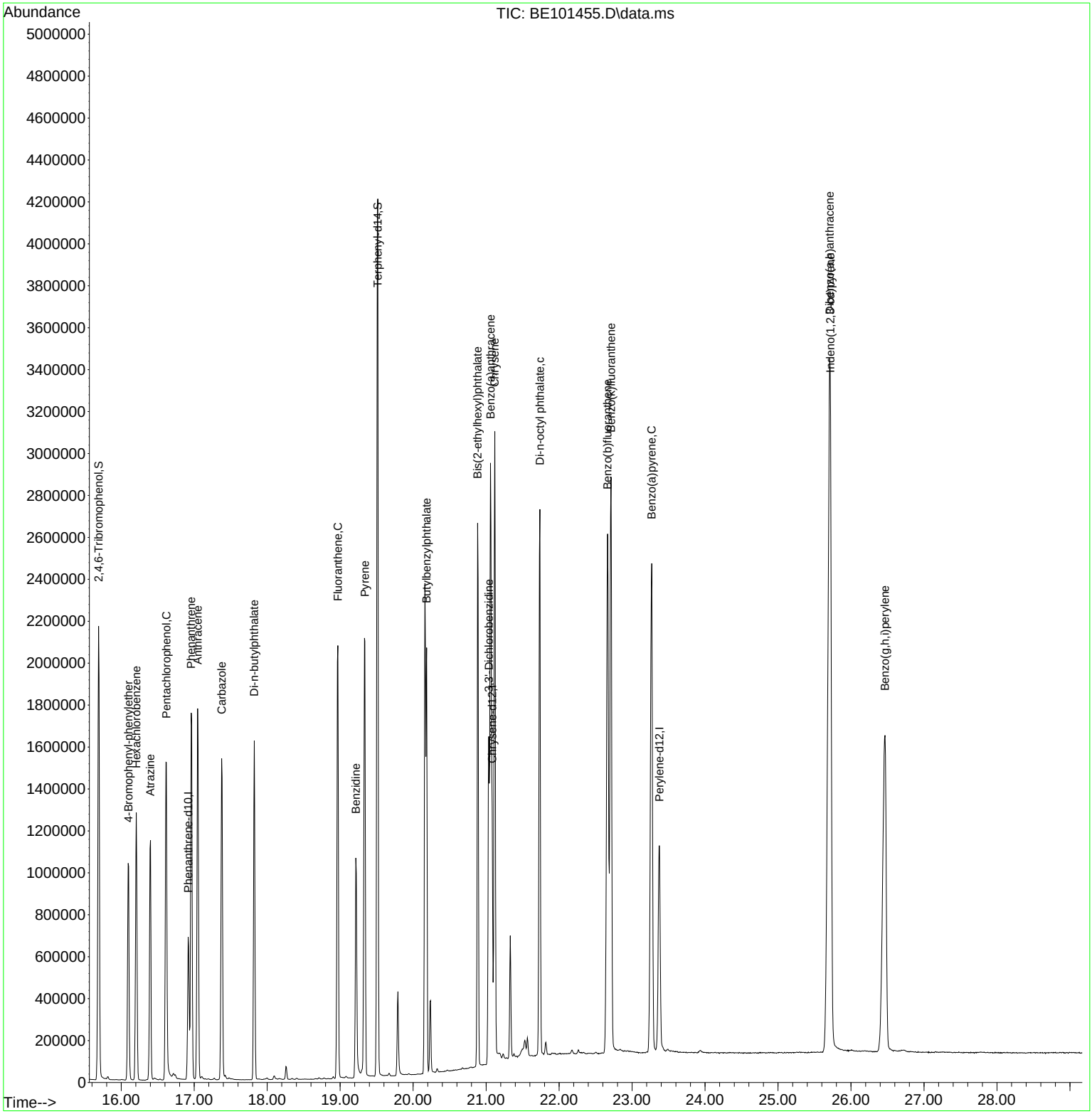
Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE110424\
Data File : BE101455.D
Acq On : 4 Nov 2024 14:04
Operator : RC/JU
Sample : PB164593BS
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 04 13:49:39 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 29 01:26:30 2024
Response via : Initial Calibration

Instrument :
BNA_E
ClientSampleId :
PB164593BS

Manual Integrations APPROVED

Reviewed By :Jagrut Upadhyay 11/05/2024
Supervised By :mohammad ahmed 11/06/2024



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF110124\
Data File : BF140209.D
Acq On : 01 Nov 2024 14:27
Operator : RC/JU
Sample : P4663-08MS
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Nov 01 14:53:42 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
RES-BUILDING-PAD-NO-2MS

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 11/04/2024
Supervised By :mohammad ahmed 11/04/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.887	152	109344	20.000	ng		0.00
21) Naphthalene-d8	8.163	136	436831	20.000	ng		-0.01
39) Acenaphthene-d10	9.928	164	250775	20.000	ng		0.00
64) Phenanthrene-d10	11.422	188	453631	20.000	ng		0.00
76) Chrysene-d12	14.074	240	223586	20.000	ng		0.02
86) Perylene-d12	15.568	264	232464	20.000	ng		0.04
System Monitoring Compounds							
5) 2-Fluorophenol	5.510	112	724961	103.793	ng		0.01
7) Phenol-d6	6.510	99	940607	103.977	ng		0.00
23) Nitrobenzene-d5	7.445	82	641831	81.433	ng		0.00
42) 2,4,6-Tribromophenol	10.722	330	260711	111.146	ng		0.00
45) 2-Fluorobiphenyl	9.245	172	1151750	75.904	ng		0.00
79) Terphenyl-d14	13.010	244	1184293	86.311	ng		0.01
Target Compounds							Qvalue
2) 1,4-Dioxane	2.752	88	129899	39.888	ng		98
3) Pyridine	3.504	79	324457	40.195	ng		96
4) n-Nitrosodimethylamine	3.457	42	206659	47.651	ng	#	91
6) Aniline	6.545	93	340812	40.424	ng		97
8) 2-Chlorophenol	6.669	128	365786	51.227	ng		98
9) Benzaldehyde	6.434	77	64850	12.743	ng		98
10) Phenol	6.528	94	467149m	50.090	ng		
11) bis(2-Chloroethyl)ether	6.622	93	355594	49.330	ng		98
12) 1,3-Dichlorobenzene	6.828	146	390215	47.607	ng		100
13) 1,4-Dichlorobenzene	6.904	146	392139	47.886	ng		100
14) 1,2-Dichlorobenzene	7.051	146	375795	49.170	ng		100
15) Benzyl Alcohol	7.022	79	351797	53.015	ng		97
16) 2,2'-oxybis(1-Chloropr...	7.157	45	638462	51.943	ng		99
17) 2-Methylphenol	7.134	107	310623	51.017	ng		97
18) Hexachloroethane	7.398	117	142700	48.867	ng		96
19) n-Nitroso-di-n-propyla...	7.292	70	276540	50.403	ng		99
20) 3+4-Methylphenols	7.287	107	376610	48.359	ng	#	77
22) Acetophenone	7.292	105	510174	47.682	ng		97
24) Nitrobenzene	7.463	77	421988	48.833	ng		99
25) Isophorone	7.704	82	763314	51.026	ng		99
26) 2-Nitrophenol	7.781	139	195206	59.879	ng		98
27) 2,4-Dimethylphenol	7.816	122	308534	56.758	ng		98
28) bis(2-Chloroethoxy)met...	7.910	93	445939	49.202	ng		99
29) 2,4-Dichlorophenol	8.022	162	310304	50.117	ng		99
30) 1,2,4-Trichlorobenzene	8.104	180	317160	46.293	ng		99
31) Naphthalene	8.187	128	1093246	48.526	ng		100
32) Benzoic acid	7.934	122	220440	46.495	ng		100
33) 4-Chloroaniline	8.234	127	162025	21.091	ng		99
34) Hexachlorobutadiene	8.304	225	211631	49.163	ng		98
35) Caprolactam	8.610	113	103436m	52.539	ng		
36) 4-Chloro-3-methylphenol	8.716	107	349680	51.004	ng		99
37) 2-Methylnaphthalene	8.881	142	694334	50.322	ng		100
38) 1-Methylnaphthalene	8.981	142	644168	47.585	ng		99
40) 1,2,4,5-Tetrachloroben...	9.045	216	331887	49.056	ng		99
41) Hexachlorocyclopentadiene	9.034	237	382117	162.321	ng		99
43) 2,4,6-Trichlorophenol	9.157	196	242443	50.615	ng		99

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF110124\
Data File : BF140209.D
Acq On : 01 Nov 2024 14:27
Operator : RC/JU
Sample : P4663-08MS
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Nov 01 14:53:42 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
RES-BUILDING-PAD-NO-2MS

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 11/04/2024
Supervised By :mohammad ahmed 11/04/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	9.204	196	241760	48.921	ng		99
46) 1,1'-Biphenyl	9.345	154	845728	48.445	ng		99
47) 2-Chloronaphthalene	9.369	162	669578	47.621	ng		98
48) 2-Nitroaniline	9.469	65	247721	57.605	ng		98
49) Acenaphthylene	9.792	152	1054552	51.878	ng		99
50) Dimethylphthalate	9.651	163	803664	51.450	ng		100
51) 2,6-Dinitrotoluene	9.710	165	176490	52.184	ng		96
52) Acenaphthene	9.963	154	734613	55.865	ng		99
53) 3-Nitroaniline	9.881	138	120242	34.475	ng		96
54) 2,4-Dinitrophenol	9.992	184	186032	128.114	ng	#	1
55) Dibenzofuran	10.139	168	919276	48.725	ng		99
56) 4-Nitrophenol	10.045	139	284253	105.933	ng		93
57) 2,4-Dinitrotoluene	10.122	165	243168	58.467	ng		96
58) Fluorene	10.480	166	713514	49.653	ng		99
59) 2,3,4,6-Tetrachlorophenol	10.257	232	201098	51.908	ng		99
60) Diethylphthalate	10.357	149	792783	51.692	ng		100
61) 4-Chlorophenyl-phenyle...	10.469	204	359435	49.530	ng		98
62) 4-Nitroaniline	10.504	138	177917	54.011	ng		96
63) Azobenzene	10.633	77	941594	57.911	ng		96
65) 4,6-Dinitro-2-methylph...	10.528	198	128815	69.617	ng		98
66) n-Nitrosodiphenylamine	10.592	169	661283	48.706	ng		99
67) 4-Bromophenyl-phenylether	10.963	248	230172	49.253	ng		97
68) Hexachlorobenzene	11.028	284	250093	47.584	ng		98
69) Atrazine	11.122	200	219710	59.739	ng		99
70) Pentachlorophenol	11.227	266	300666	94.258	ng		99
71) Phenanthrene	11.445	178	1043455	48.697	ng		100
72) Anthracene	11.498	178	1057230	50.569	ng		100
73) Carbazole	11.651	167	926239	47.637	ng		99
74) Di-n-butylphthalate	11.980	149	1188190	52.893	ng		100
75) Fluoranthene	12.639	202	1039398	47.983	ng		99
77) Benzidine	12.763	184	323149	87.896	ng		98
78) Pyrene	12.869	202	1044880	53.389	ng		100
80) Butylbenzylphthalate	13.486	149	434089	73.982	ng		96
81) Benzo(a)anthracene	14.063	228	727202	49.963	ng		99
82) 3,3'-Dichlorobenzidine	14.021	252	168586	39.727	ng		97
83) Chrysene	14.098	228	683337	51.206	ng		100
84) Bis(2-ethylhexyl)phtha...	14.051	149	546086	82.954	ng		99
85) Di-n-octyl phthalate	14.668	149	775336	64.753	ng		99
87) Indeno(1,2,3-cd)pyrene	17.098	276	765016	51.155	ng		98
88) Benzo(b)fluoranthene	15.127	252	713676	50.398	ng		100
89) Benzo(k)fluoranthene	15.157	252	573519	46.962	ng		100
90) Benzo(a)pyrene	15.504	252	630220	54.087	ng		100
91) Dibenzo(a,h)anthracene	17.121	278	624384	50.048	ng		98
92) Benzo(g,h,i)perylene	17.562	276	554578	44.503	ng		98

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

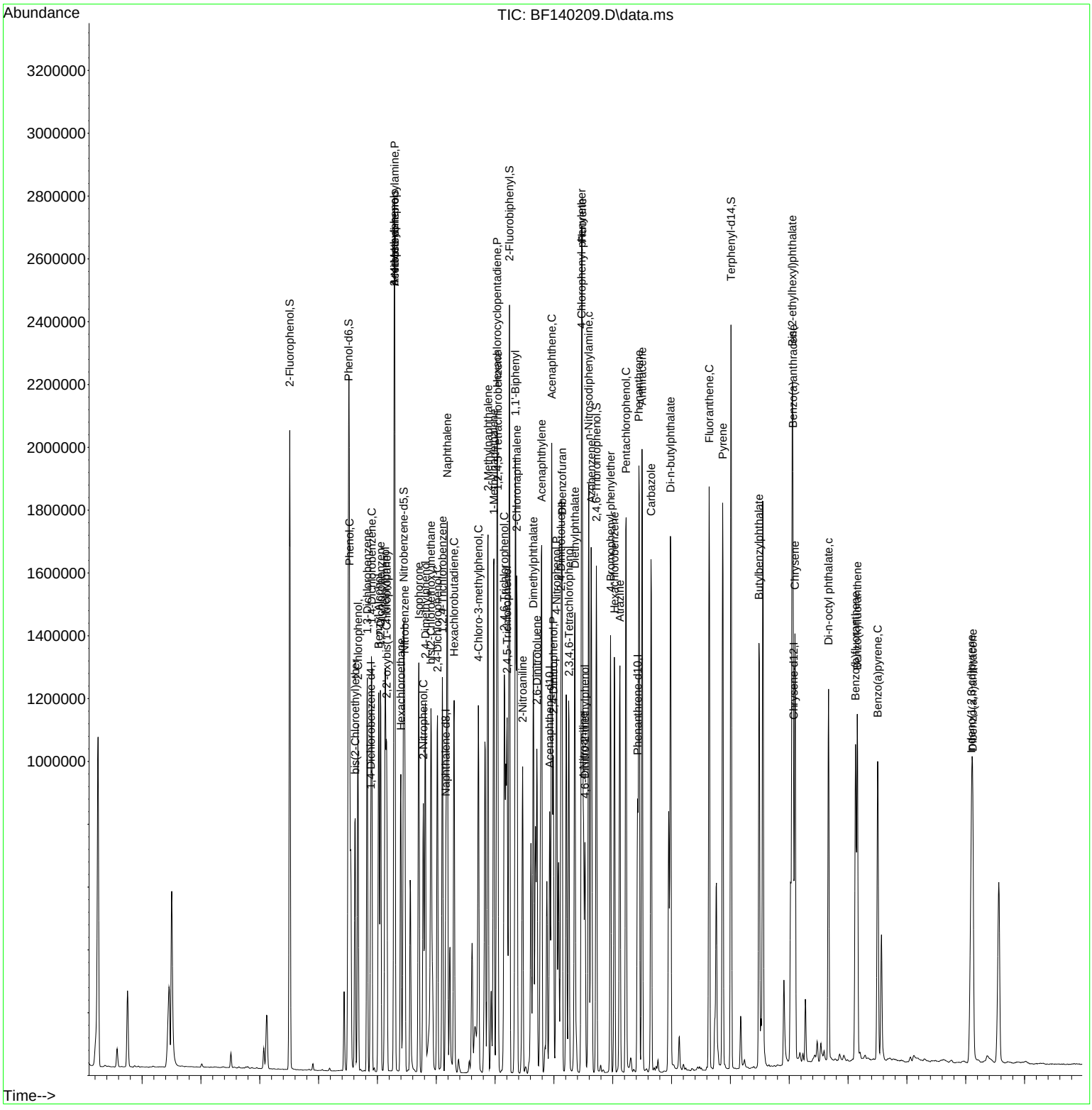
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF110124\
Data File : BF140209.D
Acq On : 01 Nov 2024 14:27
Operator : RC/JU
Sample : P4663-08MS
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Nov 01 14:53:42 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
RES-BUILDING-PAD-NO-2MS

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/04/2024
Supervised By :mohammad ahmed 11/04/2024



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF110124\
Data File : BF140210.D
Acq On : 01 Nov 2024 14:53
Operator : RC/JU
Sample : P4663-08MSD
Misc :
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Nov 01 15:22:31 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
RES-BUILDING-PAD-NO-2MSD

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 11/04/2024
Supervised By :mohammad ahmed 11/04/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.887	152	103190	20.000	ng		0.00
21) Naphthalene-d8	8.163	136	410116	20.000	ng		-0.01
39) Acenaphthene-d10	9.927	164	235405	20.000	ng		0.00
64) Phenanthrene-d10	11.422	188	418261	20.000	ng		0.00
76) Chrysene-d12	14.074	240	199568	20.000	ng		0.02
86) Perylene-d12	15.568	264	218473	20.000	ng		0.04
System Monitoring Compounds							
5) 2-Fluorophenol	5.510	112	719985	109.228	ng		0.01
7) Phenol-d6	6.510	99	944685	110.656	ng		0.00
23) Nitrobenzene-d5	7.445	82	639376	86.406	ng		0.00
42) 2,4,6-Tribromophenol	10.722	330	263991	119.892	ng		0.00
45) 2-Fluorobiphenyl	9.245	172	1149538	80.705	ng		0.00
79) Terphenyl-d14	13.010	244	1161598	94.845	ng		0.01
Target Compounds							Qvalue
2) 1,4-Dioxane	2.751	88	130135	42.344	ng		100
3) Pyridine	3.498	79	326485	42.858	ng		96
4) n-Nitrosodimethylamine	3.457	42	202155	49.392	ng	#	93
6) Aniline	6.545	93	340681	42.818	ng		97
8) 2-Chlorophenol	6.669	128	364924	54.155	ng		99
9) Benzaldehyde	6.434	77	62888	13.095	ng		98
10) Phenol	6.528	94	468692m	53.252	ng		
11) bis(2-Chloroethyl)ether	6.622	93	359602	52.861	ng		99
12) 1,3-Dichlorobenzene	6.828	146	389641	50.372	ng		100
13) 1,4-Dichlorobenzene	6.904	146	390095	50.478	ng		99
14) 1,2-Dichlorobenzene	7.051	146	376768	52.237	ng		100
15) Benzyl Alcohol	7.022	79	350314	55.940	ng		98
16) 2,2'-oxybis(1-Chloropr...	7.157	45	640758	55.239	ng		99
17) 2-Methylphenol	7.134	107	309878	53.930	ng		97
18) Hexachloroethane	7.398	117	145267	52.712	ng		96
19) n-Nitroso-di-n-propyla...	7.292	70	272567	52.642	ng		98
20) 3+4-Methylphenols	7.286	107	378702	51.527	ng	#	78
22) Acetophenone	7.292	105	508774	50.649	ng		96
24) Nitrobenzene	7.463	77	422112	52.029	ng		98
25) Isophorone	7.704	82	759137	54.052	ng		99
26) 2-Nitrophenol	7.781	139	196295	64.135	ng		99
27) 2,4-Dimethylphenol	7.816	122	304549	59.675	ng		98
28) bis(2-Chloroethoxy)met...	7.910	93	446725	52.499	ng		99
29) 2,4-Dichlorophenol	8.022	162	310070	53.341	ng		99
30) 1,2,4-Trichlorobenzene	8.104	180	322741	50.176	ng		98
31) Naphthalene	8.186	128	1080096	51.065	ng		100
32) Benzoic acid	7.934	122	228012	51.225	ng		99
33) 4-Chloroaniline	8.233	127	162045	22.468	ng		100
34) Hexachlorobutadiene	8.304	225	207187	51.266	ng		100
35) Caprolactam	8.610	113	98252m	53.157	ng		
36) 4-Chloro-3-methylphenol	8.716	107	355329	55.204	ng		100
37) 2-Methylnaphthalene	8.880	142	689267	53.209	ng		99
38) 1-Methylnaphthalene	8.980	142	643338	50.620	ng		99
40) 1,2,4,5-Tetrachloroben...	9.045	216	331042	52.126	ng		99
41) Hexachlorocyclopentadiene	9.033	237	367664	166.379	ng		100
43) 2,4,6-Trichlorophenol	9.157	196	243379	54.128	ng		99

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF110124\
Data File : BF140210.D
Acq On : 01 Nov 2024 14:53
Operator : RC/JU
Sample : P4663-08MSD
Misc :
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Nov 01 15:22:31 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
RES-BUILDING-PAD-NO-2MSD

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 11/04/2024
Supervised By :mohammad ahmed 11/04/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	9.204	196	242814	52.342	ng		98
46) 1,1'-Biphenyl	9.345	154	838242	51.151	ng		99
47) 2-Chloronaphthalene	9.369	162	660337	50.030	ng		98
48) 2-Nitroaniline	9.469	65	248096	61.459	ng		97
49) Acenaphthylene	9.792	152	1045948	54.815	ng		99
50) Dimethylphthalate	9.651	163	801824	54.684	ng		99
51) 2,6-Dinitrotoluene	9.710	165	178745	56.301	ng		97
52) Acenaphthene	9.963	154	726773	58.878	ng		99
53) 3-Nitroaniline	9.880	138	119203	36.409	ng		99
54) 2,4-Dinitrophenol	9.992	184	178200	130.600	ng	#	1
55) Dibenzofuran	10.133	168	919611	51.925	ng		99
56) 4-Nitrophenol	10.045	139	285108	113.189	ng		93
57) 2,4-Dinitrotoluene	10.122	165	242431	62.095	ng		95
58) Fluorene	10.480	166	718120	53.237	ng		100
59) 2,3,4,6-Tetrachlorophenol	10.251	232	198605	54.612	ng		99
60) Diethylphthalate	10.357	149	789983	54.872	ng		99
61) 4-Chlorophenyl-phenyle...	10.469	204	359820	52.821	ng		98
62) 4-Nitroaniline	10.504	138	175527	56.765	ng		96
63) Azobenzene	10.633	77	941124	61.661	ng		96
65) 4,6-Dinitro-2-methylph...	10.527	198	125776	73.723	ng		98
66) n-Nitrosodiphenylamine	10.592	169	665221	53.139	ng		100
67) 4-Bromophenyl-phenylether	10.963	248	229535	53.270	ng		99
68) Hexachlorobenzene	11.027	284	246586	50.884	ng		96
69) Atrazine	11.122	200	213598	62.988	ng		100
70) Pentachlorophenol	11.227	266	302344	102.800	ng		99
71) Phenanthrene	11.445	178	1041649	52.723	ng		100
72) Anthracene	11.498	178	1056998	54.834	ng		100
73) Carbazole	11.651	167	921781	51.417	ng		99
74) Di-n-butylphthalate	11.980	149	1186133	57.267	ng		99
75) Fluoranthene	12.639	202	1032334	51.687	ng		99
77) Benzidine	12.763	184	336803	102.635	ng		99
78) Pyrene	12.868	202	1012412	57.955	ng		100
80) Butylbenzylphthalate	13.492	149	430637	82.227	ng		100
81) Benzo(a)anthracene	14.063	228	706811	54.407	ng		99
82) 3,3'-Dichlorobenzidine	14.021	252	177573	46.880	ng		100
83) Chrysene	14.098	228	662888	55.652	ng		100
84) Bis(2-ethylhexyl)phtha...	14.051	149	533105	90.728	ng		99
85) Di-n-octyl phthalate	14.668	149	758803	70.999	ng		100
87) Indeno(1,2,3-cd)pyrene	17.098	276	741236	52.739	ng		98
88) Benzo(b)fluoranthene	15.127	252	689931	51.842	ng		99
89) Benzo(k)fluoranthene	15.162	252	598776	52.170	ng		99
90) Benzo(a)pyrene	15.504	252	631809	57.696	ng		100
91) Dibenzo(a,h)anthracene	17.121	278	609721	52.002	ng		98
92) Benzo(g,h,i)perylene	17.562	276	533692	45.569	ng		98

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

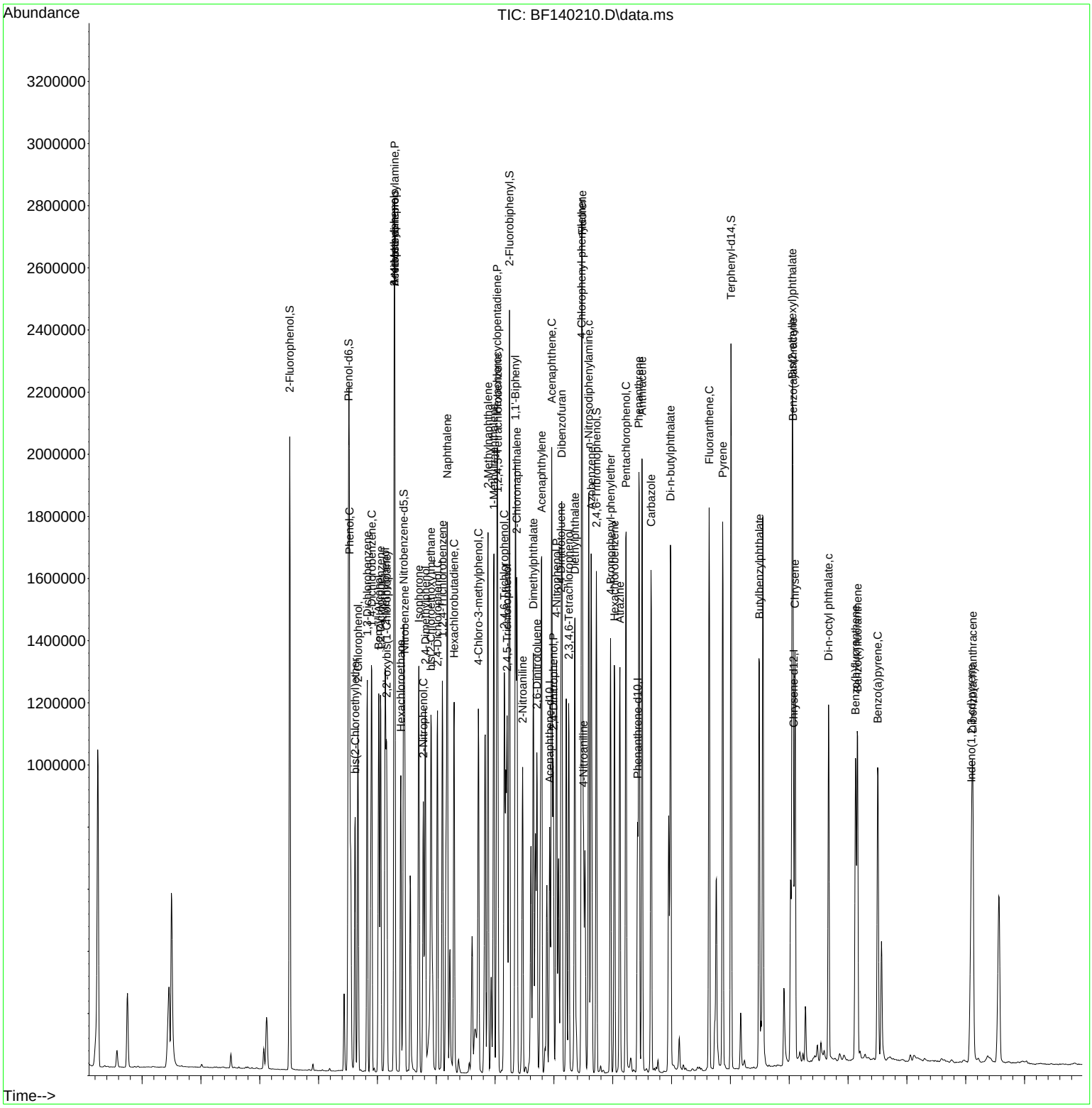
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF110124\
Data File : BF140210.D
Acq On : 01 Nov 2024 14:53
Operator : RC/JU
Sample : P4663-08MSD
Misc :
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Nov 01 15:22:31 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
RES-BUILDING-PAD-NO-2MSD

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/04/2024
Supervised By :mohammad ahmed 11/04/2024



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

Manual Integration Report

Sequence:	BE102824	Instrument	BNA_e

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDICC005	BE101390.D	bis(2-Chloroethyl)ether	yogesh	10/29/2024 4:56:49 AM	mohammad	10/30/2024 2:48:38 AM	Peak Integrated by Software
SSTDICC005	BE101390.D	Caprolactam	yogesh	10/29/2024 4:56:49 AM	mohammad	10/30/2024 2:48:38 AM	Peak Integrated by Software
SSTDICC005	BE101390.D	n-Nitrosodimethylamine	yogesh	10/29/2024 4:56:49 AM	mohammad	10/30/2024 2:48:38 AM	Peak Integrated by Software
SSTDICC005	BE101390.D	Pyridine	yogesh	10/29/2024 4:56:49 AM	mohammad	10/30/2024 2:48:38 AM	Peak Integrated by Software
SSTDICC010	BE101391.D	Benzoic acid	yogesh	10/29/2024 4:56:53 AM	mohammad	10/30/2024 2:48:38 AM	Peak Integrated by Software
SSTDICC010	BE101391.D	bis(2-Chloroethyl)ether	yogesh	10/29/2024 4:56:53 AM	mohammad	10/30/2024 2:48:38 AM	Peak Integrated by Software
SSTDICC010	BE101391.D	Caprolactam	yogesh	10/29/2024 4:56:53 AM	mohammad	10/30/2024 2:48:38 AM	Peak Integrated by Software
SSTDICC010	BE101391.D	n-Nitrosodimethylamine	yogesh	10/29/2024 4:56:53 AM	mohammad	10/30/2024 2:48:38 AM	Peak Integrated by Software
SSTDICC010	BE101391.D	Pyridine	yogesh	10/29/2024 4:56:53 AM	mohammad	10/30/2024 2:48:38 AM	Peak Integrated by Software
SSTDICC020	BE101392.D	bis(2-Chloroethyl)ether	yogesh	10/29/2024 4:56:57 AM	mohammad	10/30/2024 2:48:38 AM	Peak Integrated by Software
SSTDICC020	BE101392.D	Pyridine	yogesh	10/29/2024 4:56:57 AM	mohammad	10/30/2024 2:48:38 AM	Peak Integrated by Software
SSTDICCC040	BE101393.D	bis(2-Chloroethyl)ether	yogesh	10/29/2024 4:57:01 AM	mohammad	10/30/2024 2:48:38 AM	Peak Integrated by Software
SSTDICCC040	BE101393.D	Pyridine	yogesh	10/29/2024 4:57:01 AM	mohammad	10/30/2024 2:48:38 AM	Peak Integrated by Software

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

Manual Integration Report

Sequence:	BE102824	Instrument	BNA_e

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDICC050	BE101394.D	Caprolactam	yogesh	10/29/2024 4:57:05 AM	mohammad	10/30/2024 2:48:38 AM	Peak Integrated by Software
SSTDICC050	BE101394.D	Pyridine	yogesh	10/29/2024 4:57:05 AM	mohammad	10/30/2024 2:48:38 AM	Peak Integrated by Software
SSTDICC060	BE101395.D	Benzo(k)fluoranthene	yogesh	10/29/2024 4:57:10 AM	mohammad	10/30/2024 2:48:38 AM	Peak Integrated by Software
SSTDICC060	BE101395.D	Caprolactam	yogesh	10/29/2024 4:57:10 AM	mohammad	10/30/2024 2:48:38 AM	Peak Integrated by Software
SSTDICC060	BE101395.D	Pyridine	yogesh	10/29/2024 4:57:10 AM	mohammad	10/30/2024 2:48:38 AM	Peak Integrated by Software
SSTDICC080	BE101396.D	Aniline	yogesh	10/29/2024 4:57:15 AM	mohammad	10/30/2024 2:48:38 AM	Peak Integrated by Software
SSTDICC080	BE101396.D	bis(2-Chloroethyl)ether	yogesh	10/29/2024 4:57:15 AM	mohammad	10/30/2024 2:48:38 AM	Peak Integrated by Software
SSTDICC080	BE101396.D	Caprolactam	yogesh	10/29/2024 4:57:15 AM	mohammad	10/30/2024 2:48:38 AM	Peak Integrated by Software
SSTDICC080	BE101396.D	Pyridine	yogesh	10/29/2024 4:57:15 AM	mohammad	10/30/2024 2:48:38 AM	Peak Integrated by Software
SSTDICV040	BE101397.D	Aniline	yogesh	10/29/2024 4:57:19 AM	mohammad	10/30/2024 2:48:38 AM	Peak Integrated by Software
SSTDICV040	BE101397.D	Pyridine	yogesh	10/29/2024 4:57:19 AM	mohammad	10/30/2024 2:48:38 AM	Peak Integrated by Software

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Manual Integration Report

Sequence:	BE110124	Instrument	BNA_e

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
P4663-02	BE101450.D	Benzo(b)fluoranthene	yogesh	11/4/2024 1:47:10 AM	mohammad	11/4/2024 1:51:32 AM	Peak Integrated by Software

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

Manual Integration Report

Sequence:	Be110424	Instrument	BNA_e

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDCCC040	BE101453.D	bis(2-Chloroethyl)ether	Jagrut	11/5/2024 2:11:11 PM	mohammad	11/6/2024 3:14:23 AM	Peak Integrated by Software
SSTDCCC040	BE101453.D	Caprolactam	Jagrut	11/5/2024 2:11:11 PM	mohammad	11/6/2024 3:14:23 AM	Peak Integrated by Software
PB164593BS	BE101455.D	bis(2-Chloroethyl)ether	Jagrut	11/5/2024 2:11:14 PM	mohammad	11/6/2024 3:14:23 AM	Peak Integrated by Software
PB164593BS	BE101455.D	Caprolactam	Jagrut	11/5/2024 2:11:14 PM	mohammad	11/6/2024 3:14:23 AM	Peak Integrated by Software

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

Manual Integration Report

Sequence:	BF101824	Instrument	BNA_f

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDICCC040	BF139848.D	Phenol	yogesh	10/21/2024 6:33:45 AM	mohammad	10/21/2024 6:38:35 AM	Peak Integrated by Software
SSTDICC050	BF139849.D	Phenol	yogesh	10/21/2024 6:33:46 AM	mohammad	10/21/2024 6:38:35 AM	Peak Integrated by Software
SSTDICC060	BF139850.D	Phenol	yogesh	10/21/2024 6:33:47 AM	mohammad	10/21/2024 6:38:35 AM	Peak Integrated by Software
SSTDICC080	BF139851.D	Aniline	yogesh	10/21/2024 6:33:49 AM	mohammad	10/21/2024 6:38:35 AM	Peak Integrated by Software
SSTDICV040	BF139852.D	Phenol	yogesh	10/21/2024 6:33:50 AM	mohammad	10/21/2024 6:38:35 AM	Peak Integrated by Software

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

Manual Integration Report

Sequence:	BF110124	Instrument	BNA_f

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDCCC040	BF140200.D	Phenol	yogesh	11/4/2024 1:46:27 AM	mohammad	11/4/2024 1:51:22 AM	Peak Integrated by Software
P4663-08MS	BF140209.D	Caprolactam	yogesh	11/4/2024 1:46:31 AM	mohammad	11/4/2024 1:51:22 AM	Peak Integrated by Software
P4663-08MS	BF140209.D	Phenol	yogesh	11/4/2024 1:46:31 AM	mohammad	11/4/2024 1:51:22 AM	Peak Integrated by Software
P4663-08MSD	BF140210.D	Caprolactam	yogesh	11/4/2024 1:46:32 AM	mohammad	11/4/2024 1:51:22 AM	Peak Integrated by Software
P4663-08MSD	BF140210.D	Phenol	yogesh	11/4/2024 1:46:32 AM	mohammad	11/4/2024 1:51:22 AM	Peak Integrated by Software

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

Instrument ID: BNA_E

Daily Analysis Runlog For Sequence/QCBatch ID # BE102824

Review By	yogesh	Review On	10/29/2024 4:57:44 AM		
Supervise By	mohammad	Supervise On	10/30/2024 2:48:38 AM		
SubDirectory	BE102824	HP Acquire Method	BNA_E	HP Processing Method	be102824

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12323,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BE101388.D	28 Oct 2024 10:51	RC/JU	Ok
2	SSTDICC2.5	BE101389.D	28 Oct 2024 11:44	RC/JU	Ok
3	SSTDICC005	BE101390.D	28 Oct 2024 12:23	RC/JU	Ok,M
4	SSTDICC010	BE101391.D	28 Oct 2024 12:59	RC/JU	Ok,M
5	SSTDICC020	BE101392.D	28 Oct 2024 13:35	RC/JU	Ok,M
6	SSTDICCC040	BE101393.D	28 Oct 2024 14:11	RC/JU	Ok,M
7	SSTDICC050	BE101394.D	28 Oct 2024 14:49	RC/JU	Ok,M
8	SSTDICC060	BE101395.D	28 Oct 2024 15:25	RC/JU	Ok,M
9	SSTDICC080	BE101396.D	28 Oct 2024 16:01	RC/JU	Ok,M
10	SSTDICV040	BE101397.D	28 Oct 2024 16:37	RC/JU	Ok,M
11	PB164444BL	BE101398.D	28 Oct 2024 17:16	RC/JU	Ok

M : Manual Integration

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

Instrument ID: BNA_E

Daily Analysis Runlog For Sequence/QCBatch ID # BE110124

Review By	yogesh	Review On	11/4/2024 1:47:04 AM		
Supervise By	mohammad	Supervise On	11/4/2024 1:51:32 AM		
SubDirectory	BE110124	HP Acquire Method	BNA_E	HP Processing Method	be102824

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12324,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BE101443.D	1 Nov 2024 9:05	RC/JU	Ok
2	SSTDCCC040	BE101444.D	1 Nov 2024 9:41	RC/JU	Ok
3	PB164558BL	BE101445.D	1 Nov 2024 10:17	RC/JU	Ok
4	P4616-01MS	BE101446.D	1 Nov 2024 10:58	RC/JU	Ok,M
5	P4616-01MSD	BE101447.D	1 Nov 2024 14:00	RC/JU	Ok,M
6	P4663-06	BE101448.D	1 Nov 2024 14:33	RC/JU	Ok
7	P4645-01	BE101449.D	1 Nov 2024 15:09	RC/JU	Ok,M
8	P4663-02	BE101450.D	1 Nov 2024 15:45	RC/JU	Ok,M
9	P4659-01	BE101451.D	1 Nov 2024 16:21	RC/JU	Ok,M

M : Manual Integration

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Instrument ID: BNA_E

Daily Analysis Runlog For Sequence/QCBatch ID # BE110424

Review By	Jagrut	Review On	11/5/2024 2:11:37 PM				
Supervise By	mohammad	Supervise On	11/6/2024 3:14:23 AM				
SubDirectory	BE110424	HP Acquire Method	BNA_E			HP Processing Method	be102824

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12324,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BE101452.D	4 Nov 2024 12:13	RC/JU	Ok
2	SSTDCCC040	BE101453.D	4 Nov 2024 12:49	RC/JU	Ok,M
3	PB164593BL	BE101454.D	4 Nov 2024 13:25	RC/JU	Ok
4	PB164593BS	BE101455.D	4 Nov 2024 14:04	RC/JU	Ok,M
5	P4667-13	BE101456.D	4 Nov 2024 15:42	RC/JU	Ok
6	P4680-05	BE101457.D	4 Nov 2024 16:18	RC/JU	Ok
7	P4680-01	BE101458.D	4 Nov 2024 16:51	RC/JU	ReRun
8	P4675-04	BE101459.D	4 Nov 2024 17:27	RC/JU	Ok
9	P4675-04MS	BE101460.D	4 Nov 2024 18:02	RC/JU	Ok,M
10	P4675-04MSD	BE101461.D	4 Nov 2024 18:38	RC/JU	Ok,M
11	P4675-03	BE101462.D	4 Nov 2024 19:14	RC/JU	Ok
12	P4675-01	BE101463.D	4 Nov 2024 19:50	RC/JU	Ok
13	P4675-02	BE101464.D	4 Nov 2024 20:26	RC/JU	ReRun
14	P4675-05	BE101465.D	4 Nov 2024 21:01	RC/JU	ReRun
15	P4675-06	BE101466.D	4 Nov 2024 21:37	RC/JU	ReRun
16	P4667-05	BE101467.D	4 Nov 2024 22:13	RC/JU	ReRun
17	P4667-01	BE101468.D	4 Nov 2024 22:49	RC/JU	Ok
18	P4667-09	BE101469.D	4 Nov 2024 23:25	RC/JU	Ok
19	P4679-01	BE101470.D	5 Nov 2024 00:01	RC/JU	Ok,M

M : Manual Integration

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF101824

Review By	yogesh	Review On	10/21/2024 6:34:01 AM				
Supervise By	mohammad	Supervise On	10/21/2024 6:38:35 AM				
SubDirectory	BF101824	HP Acquire Method	BNA_F		HP Processing Method	bf101824	

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12322,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BF139843.D	18 Oct 2024 09:22	RC/JU	Ok
2	SSTDICC2.5	BF139844.D	18 Oct 2024 10:27	RC/JU	Ok
3	SSTDICC005	BF139845.D	18 Oct 2024 10:55	RC/JU	Ok
4	SSTDICC010	BF139846.D	18 Oct 2024 11:23	RC/JU	Ok
5	SSTDICC020	BF139847.D	18 Oct 2024 11:52	RC/JU	Ok
6	SSTDICCC040	BF139848.D	18 Oct 2024 12:20	RC/JU	Ok,M
7	SSTDICC050	BF139849.D	18 Oct 2024 12:49	RC/JU	Ok,M
8	SSTDICC060	BF139850.D	18 Oct 2024 13:17	RC/JU	Ok,M
9	SSTDICC080	BF139851.D	18 Oct 2024 13:46	RC/JU	Ok,M
10	SSTDICV040	BF139852.D	18 Oct 2024 14:19	RC/JU	Ok,M
11	PB164211BL	BF139853.D	18 Oct 2024 14:48	RC/JU	Ok
12	P4405-01	BF139854.D	18 Oct 2024 15:21	RC/JU	Ok
13	P4431-01	BF139855.D	18 Oct 2024 15:50	RC/JU	Ok,M
14	P4421-01	BF139856.D	18 Oct 2024 16:18	RC/JU	Ok,M
15	P4422-01	BF139857.D	18 Oct 2024 16:46	RC/JU	Ok
16	P4425-01	BF139858.D	18 Oct 2024 17:15	RC/JU	Ok
17	P4425-03	BF139859.D	18 Oct 2024 17:44	RC/JU	Ok
18	P4425-05	BF139860.D	18 Oct 2024 18:12	RC/JU	Ok
19	P4425-07	BF139861.D	18 Oct 2024 18:41	RC/JU	ReRun
20	P4425-09	BF139862.D	18 Oct 2024 19:09	RC/JU	ReRun
21	P4426-03	BF139863.D	18 Oct 2024 19:37	RC/JU	ReRun

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF101824

Review By	yogesh	Review On	10/21/2024 6:34:01 AM				
Supervise By	mohammad	Supervise On	10/21/2024 6:38:35 AM				
SubDirectory	BF101824	HP Acquire Method	BNA_F		HP Processing Method	bf101824	

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12322,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	P4426-07	BF139864.D	18 Oct 2024 20:05	RC/JU	ReRun
23	P4426-17	BF139865.D	18 Oct 2024 20:34	RC/JU	ReRun
24	P4426-11	BF139866.D	18 Oct 2024 21:02	RC/JU	ReRun

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF110124

Review By	yogesh	Review On	11/4/2024 1:46:46 AM				
Supervise By	mohammad	Supervise On	11/4/2024 1:51:22 AM				
SubDirectory	BF110124	HP Acquire Method	BNA_F		HP Processing Method	bf101824	

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12324,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BF140199.D	01 Nov 2024 08:56	RC/JU	Ok
2	SSTDCCC040	BF140200.D	01 Nov 2024 09:22	RC/JU	Ok,M
3	PB164558BL	BF140201.D	01 Nov 2024 09:49	RC/JU	Ok
4	PB164558BS	BF140202.D	01 Nov 2024 10:15	RC/JU	Ok,M
5	PB164531BS	BF140203.D	01 Nov 2024 10:41	RC/JU	Ok,M
6	P4643-01	BF140204.D	01 Nov 2024 11:14	RC/JU	Ok
7	P4643-05	BF140205.D	01 Nov 2024 11:40	RC/JU	Ok
8	P4578-01RE	BF140206.D	01 Nov 2024 12:07	RC/JU	Confirms
9	P4578-02RE	BF140207.D	01 Nov 2024 12:33	RC/JU	Confirms
10	P4663-08	BF140208.D	01 Nov 2024 14:00	RC/JU	Ok
11	P4663-08MS	BF140209.D	01 Nov 2024 14:27	RC/JU	Ok,M
12	P4663-08MSD	BF140210.D	01 Nov 2024 14:53	RC/JU	Ok,M
13	P4659-01	BF140211.D	01 Nov 2024 15:20	RC/JU	ReRun
14	P4663-04	BF140212.D	01 Nov 2024 15:47	RC/JU	Ok

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Instrument ID: BNA_E

Daily Analysis Runlog For Sequence/QCBatch ID # BE102824

Review By	yogesh	Review On	10/29/2024 4:57:44 AM		
Supervise By	mohammad	Supervise On	10/30/2024 2:48:38 AM		
SubDirectory	BE102824	HP Acquire Method	BNA_E	HP Processing Method	be102824

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12323,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BE101388.D	28 Oct 2024 10:51		RC/JU	Ok
2	SSTDICC2.5	SSTDICC2.5	BE101389.D	28 Oct 2024 11:44		RC/JU	Ok
3	SSTDICC005	SSTDICC005	BE101390.D	28 Oct 2024 12:23	Compound #32,54,56,65 removed from 5ppm	RC/JU	Ok,M
4	SSTDICC010	SSTDICC010	BE101391.D	28 Oct 2024 12:59		RC/JU	Ok,M
5	SSTDICC020	SSTDICC020	BE101392.D	28 Oct 2024 13:35	Compound #32,54 Kept on LR	RC/JU	Ok,M
6	SSTDICCC040	SSTDICCC040	BE101393.D	28 Oct 2024 14:11	The Calibration is Good For 8270 DOD Except com#77 and Not good for 625.1 Method	RC/JU	Ok,M
7	SSTDICC050	SSTDICC050	BE101394.D	28 Oct 2024 14:49	Com#77(Benzidine) Failed in the calibration for both DOD and NON-DOD	RC/JU	Ok,M
8	SSTDICC060	SSTDICC060	BE101395.D	28 Oct 2024 15:25	Compound #69 removed from 60ppm	RC/JU	Ok,M
9	SSTDICC080	SSTDICC080	BE101396.D	28 Oct 2024 16:01	Compound #9,69,79 removed from 80ppm	RC/JU	Ok,M
10	SSTDICV040	ICVBE102824	BE101397.D	28 Oct 2024 16:37	ICV Fail for Com#77 for Both DOD and NON-DOD	RC/JU	Ok,M
11	PB164444BL	PB164444BL	BE101398.D	28 Oct 2024 17:16		RC/JU	Ok

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Instrument ID: BNA_E

Daily Analysis Runlog For Sequence/QCBatch ID # BE110124

Review By	yogesh	Review On	11/4/2024 1:47:04 AM		
Supervise By	mohammad	Supervise On	11/4/2024 1:51:32 AM		
SubDirectory	BE110124	HP Acquire Method	BNA_E	HP Processing Method	be102824

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12324,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BE101443.D	1 Nov 2024 9:05		RC/JU	Ok
2	SSTDCCC040	SSTDCCC040	BE101444.D	1 Nov 2024 9:41		RC/JU	Ok
3	PB164558BL	PB164558BL	BE101445.D	1 Nov 2024 10:17		RC/JU	Ok
4	P4616-01MS	BP-F10MS	BE101446.D	1 Nov 2024 10:58		RC/JU	Ok,M
5	P4616-01MSD	BP-F10MSD	BE101447.D	1 Nov 2024 14:00		RC/JU	Ok,M
6	P4663-06	RES-BUILDING-PAD-N	BE101448.D	1 Nov 2024 14:33		RC/JU	Ok
7	P4645-01	Z-02-WC	BE101449.D	1 Nov 2024 15:09		RC/JU	Ok,M
8	P4663-02	TENNANT-PAD-2-3-ST	BE101450.D	1 Nov 2024 15:45		RC/JU	Ok,M
9	P4659-01	MH-2	BE101451.D	1 Nov 2024 16:21		RC/JU	Ok,M

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Instrument ID: BNA_E

Daily Analysis Runlog For Sequence/QCBatch ID # BE110424

Review By	Jagrut	Review On	11/5/2024 2:11:37 PM		
Supervise By	mohammad	Supervise On	11/6/2024 3:14:23 AM		
SubDirectory	BE110424	HP Acquire Method	BNA_E	HP Processing Method	be102824

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12324,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BE101452.D	4 Nov 2024 12:13		RC/JU	Ok
2	SSTDCCC040	SSTDCCC040	BE101453.D	4 Nov 2024 12:49		RC/JU	Ok,M
3	PB164593BL	PB164593BL	BE101454.D	4 Nov 2024 13:25		RC/JU	Ok
4	PB164593BS	PB164593BS	BE101455.D	4 Nov 2024 14:04		RC/JU	Ok,M
5	P4667-13	BP-F-7	BE101456.D	4 Nov 2024 15:42		RC/JU	Ok
6	P4680-05	BP-F25	BE101457.D	4 Nov 2024 16:18		RC/JU	Ok
7	P4680-01	BP-F26	BE101458.D	4 Nov 2024 16:51	Internal Standard Fail	RC/JU	ReRun
8	P4675-04	COMP-4	BE101459.D	4 Nov 2024 17:27	Internal Standard Fail	RC/JU	Ok
9	P4675-04MS	COMP-4MS	BE101460.D	4 Nov 2024 18:02	Internal Standard Fail	RC/JU	Ok,M
10	P4675-04MSD	COMP-4MSD	BE101461.D	4 Nov 2024 18:38	Internal Standard Fail	RC/JU	Ok,M
11	P4675-03	COMP-3	BE101462.D	4 Nov 2024 19:14		RC/JU	Ok
12	P4675-01	COMP-1	BE101463.D	4 Nov 2024 19:50		RC/JU	Ok
13	P4675-02	COMP-2	BE101464.D	4 Nov 2024 20:26	Internal Standard Fail	RC/JU	ReRun
14	P4675-05	COMP-5	BE101465.D	4 Nov 2024 21:01	Internal Standard Fail	RC/JU	ReRun
15	P4675-06	COMP-6	BE101466.D	4 Nov 2024 21:37	Internal Standard Fail	RC/JU	ReRun
16	P4667-05	BP-F-5	BE101467.D	4 Nov 2024 22:13	Internal Standard Fail	RC/JU	ReRun
17	P4667-01	BP-F-6	BE101468.D	4 Nov 2024 22:49		RC/JU	Ok
18	P4667-09	BP-F-10	BE101469.D	4 Nov 2024 23:25		RC/JU	Ok

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Instrument ID: BNA_E

Daily Analysis Runlog For Sequence/QCBatch ID # BE110424

Review By	Jagrut	Review On	11/5/2024 2:11:37 PM		
Supervise By	mohammad	Supervise On	11/6/2024 3:14:23 AM		
SubDirectory	BE110424	HP Acquire Method	BNA_E	HP Processing Method	be102824

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12324,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	P4679-01	MH-1	BE101470.D	5 Nov 2024 00:01		RC/JU	Ok,M

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF101824

Review By	yogesh	Review On	10/21/2024 6:34:01 AM		
Supervise By	mohammad	Supervise On	10/21/2024 6:38:35 AM		
SubDirectory	BF101824	HP Acquire Method	BNA_F	HP Processing Method	bf101824

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12322,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BF139843.D	18 Oct 2024 09:22		RC/JU	Ok
2	SSTDICC2.5	SSTDICC2.5	BF139844.D	18 Oct 2024 10:27		RC/JU	Ok
3	SSTDICC005	SSTDICC005	BF139845.D	18 Oct 2024 10:55	Compound #9,32,54,65,85 removed from 5 ppm	RC/JU	Ok
4	SSTDICC010	SSTDICC010	BF139846.D	18 Oct 2024 11:23		RC/JU	Ok
5	SSTDICC020	SSTDICC020	BF139847.D	18 Oct 2024 11:52	Compound #54 Kept on LR	RC/JU	Ok
6	SSTDICCC040	SSTDICCC040	BF139848.D	18 Oct 2024 12:20	The Calibration is Good For 8270 DOD Except com#77 and good for 625.1 Method	RC/JU	Ok,M
7	SSTDICC050	SSTDICC050	BF139849.D	18 Oct 2024 12:49	Com#77(Benzidine) Failed in the calibration for both DOD and NON-DOD	RC/JU	Ok,M
8	SSTDICC060	SSTDICC060	BF139850.D	18 Oct 2024 13:17		RC/JU	Ok,M
9	SSTDICC080	SSTDICC080	BF139851.D	18 Oct 2024 13:46		RC/JU	Ok,M
10	SSTDICV040	SSTDICV040	BF139852.D	18 Oct 2024 14:19		RC/JU	Ok,M
11	PB164211BL	PB164211BL	BF139853.D	18 Oct 2024 14:48		RC/JU	Ok
12	P4405-01	MH-121	BF139854.D	18 Oct 2024 15:21		RC/JU	Ok
13	P4431-01	72-11934	BF139855.D	18 Oct 2024 15:50		RC/JU	Ok,M
14	P4421-01	EO-02-101624	BF139856.D	18 Oct 2024 16:18		RC/JU	Ok,M
15	P4422-01	EO-01-101624	BF139857.D	18 Oct 2024 16:46		RC/JU	Ok
16	P4425-01	TP-1	BF139858.D	18 Oct 2024 17:15		RC/JU	Ok

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF101824

Review By	yogesh	Review On	10/21/2024 6:34:01 AM		
Supervise By	mohammad	Supervise On	10/21/2024 6:38:35 AM		
SubDirectory	BF101824	HP Acquire Method	BNA_F	HP Processing Method	bf101824

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12322,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

17	P4425-03	TP-2	BF139859.D	18 Oct 2024 17:44		RC/JU	Ok
18	P4425-05	TP-3	BF139860.D	18 Oct 2024 18:12		RC/JU	Ok
19	P4425-07	TP-4	BF139861.D	18 Oct 2024 18:41	Internal Standrad Fail	RC/JU	ReRun
20	P4425-09	TP-5	BF139862.D	18 Oct 2024 19:09	Internal Standrad Fail	RC/JU	ReRun
21	P4426-03	PAD-2	BF139863.D	18 Oct 2024 19:37	Internal Standrad Fail	RC/JU	ReRun
22	P4426-07	PAD-4	BF139864.D	18 Oct 2024 20:05	Internal Standrad Fail	RC/JU	ReRun
23	P4426-17	PAD-9	BF139865.D	18 Oct 2024 20:34	Internal Standard Fail	RC/JU	ReRun
24	P4426-11	PAD-6	BF139866.D	18 Oct 2024 21:02	Internal Standard Fail	RC/JU	ReRun

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF110124

Review By	yogesh	Review On	11/4/2024 1:46:46 AM		
Supervise By	mohammad	Supervise On	11/4/2024 1:51:22 AM		
SubDirectory	BF110124	HP Acquire Method	BNA_F	HP Processing Method	bf101824

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12324,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BF140199.D	01 Nov 2024 08:56		RC/JU	Ok
2	SSTDCCC040	SSTDCCC040	BF140200.D	01 Nov 2024 09:22		RC/JU	Ok,M
3	PB164558BL	PB164558BL	BF140201.D	01 Nov 2024 09:49		RC/JU	Ok
4	PB164558BS	PB164558BS	BF140202.D	01 Nov 2024 10:15		RC/JU	Ok,M
5	PB164531BS	PB164531BS	BF140203.D	01 Nov 2024 10:41		RC/JU	Ok,M
6	P4643-01	BP-F9-ADDITIONAL	BF140204.D	01 Nov 2024 11:14		RC/JU	Ok
7	P4643-05	BP-F8	BF140205.D	01 Nov 2024 11:40		RC/JU	Ok
8	P4578-01RE	WB-305-SWRE	BF140206.D	01 Nov 2024 12:07	Surrogate Fail	RC/JU	Confirms
9	P4578-02RE	WB-305-SW-1RE	BF140207.D	01 Nov 2024 12:33	Surrogate Fail	RC/JU	Confirms
10	P4663-08	RES-BUILDING-PAD-N	BF140208.D	01 Nov 2024 14:00		RC/JU	Ok
11	P4663-08MS	RES-BUILDING-PAD-N	BF140209.D	01 Nov 2024 14:27		RC/JU	Ok,M
12	P4663-08MSD	RES-BUILDING-PAD-N	BF140210.D	01 Nov 2024 14:53		RC/JU	Ok,M
13	P4659-01	MH-2	BF140211.D	01 Nov 2024 15:20	Internal standard fail	RC/JU	ReRun
14	P4663-04	RES-BUILDING-PAD-N	BF140212.D	01 Nov 2024 15:47		RC/JU	Ok

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EXTRACTION LOGPAGE

PB164593

SOP ID:	M3541-ASE Extraction-14				
Clean Up SOP #:	N/A			**Extraction Start Date :**	11/01/2024
Matrix :	Solid			**Extraction Start Time :**	09:43
Weigh By:	EH	**Extraction By:**	RJ	**Extraction End Date :**	11/01/2024
Balance check:	RJ	**Filter By:**	RJ	**Extraction End Time :**	13:55
Balance ID:	EX-SC-2	**pH Meter ID:**	N/A	**Concentration By:**	EH
pH Strip Lot#:	N/A	**Hood ID:**	3,7	**Supervisor By :**	rajesh

Extraction Method: ☐ Seperatory Funnel ☐ Continious Liquid/Liquid ☐ Sonication ☐ Waste Dilution ☑ Soxhlet

Standared Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Spike Sol 1	1.0ML	50/100 PPM	SP6630
Surrogate	1.0ML	100/150 PPM	SP6638
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	EP2538
Baked Na2SO4	N/A	EP2554
Sand	N/A	E2865
Methylene Chloride	N/A	E3822
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
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. P 4663 All samples Added in batch at 11:00.

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
11/01/24	RP (Ext Lab)	Rel SVOC
14:00	**Preparation Group**	**Analysis Group**

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PrepBatch ID : PB164593

Analytical Method: M3541-ASE Extraction-14

Concentration Date: 10/01/2024

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB164593BL	SBLK593	SVOC-TCL BNA -20	30.01	N/A	ritesh	RUPESH	1			U6-1
PB164593BS	SLCS593	SVOC-TCL BNA -20	30.03	N/A	ritesh	RUPESH	1			2
P4645-01	Z-02-WC	SVOC-TCL BNA -20	50.03	N/A	ritesh	RUPESH	1	D		3
P4659-01	MH-2	SVOC-TCL BNA -20	50.07	N/A	ritesh	RUPESH	1	D		4
P4663-02	TENNANT-PAD-2-3-STOCKPILE	SVOCMS Group1	30.02	N/A	ritesh	RUPESH	1	D		5
P4663-04	RES-BUILDING-PAD-NO-11	SVOCMS Group1	30.06	N/A	ritesh	RUPESH	1	D		6
P4663-06	RES-BUILDING-PAD-NO-3	SVOCMS Group1	30.08	N/A	ritesh	RUPESH	1	D		U7-1
P4663-08	RES-BUILDING-PAD-NO-2	SVOCMS Group1	30.03	N/A	ritesh	RUPESH	1	D		2
P4663-08MS	RES-BUILDING-PAD-NO-2 MS	SVOCMS Group1	30.05	N/A	ritesh	RUPESH	1	D		3
P4663-08MSD	RES-BUILDING-PAD-NO-2 MSD	SVOCMS Group1	30.07	N/A	ritesh	RUPESH	1	D		4

* **Extracts relinquished on the same date as received.**

11/6/24

16493
9:43

WORKLIST(Hardcopy Internal Chain)

WorkList Name : P4659 **WorkList ID :** 185006 **Department :** Extraction **Date :** 11-01-2024 08:36:29

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4645-01	Z-02-WC	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	K63	10/31/2024	8270E
P4659-01	MH-2	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	K61	10/31/2024	8270E

253 of 995

Date/Time 11/01/24 9:40
Raw Sample Received by: RJ (Set lab)
Raw Sample Relinquished by: JD CSM

Date/Time 11/01/24 9:55
Raw Sample Received by: JD CSM
Raw Sample Relinquished by: RJ (Set lab)

P4663

1643 B3
11:00

WORKLIST(Hardcopy Internal Chain)

WorkList Name : P4663 **WorkList ID :** 185017 **Department :** Extraction **Date :** 11-01-2024 11:00:04

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4663-02	TENNANT-PAD-2-3-STOCKPIL	Solid	PCB	Cool 4 deg C	UNIO02	K41	10/31/2024	8082A
P4663-02	TENNANT-PAD-2-3-STOCKPIL	Solid	Pesticide-TCL	Cool 4 deg C	UNIO02	K41	10/31/2024	8081B
P4663-02	TENNANT-PAD-2-3-STOCKPIL	Solid	SVOCMS Group1	Cool 4 deg C	UNIO02	K41	10/31/2024	8270E
P4663-04	RES-BUILDING-PAD-NO-11	Solid	PCB	Cool 4 deg C	UNIO02	K41	10/31/2024	8082A
P4663-04	RES-BUILDING-PAD-NO-11	Solid	Pesticide-TCL	Cool 4 deg C	UNIO02	K41	10/31/2024	8081B
P4663-04	RES-BUILDING-PAD-NO-11	Solid	SVOCMS Group1	Cool 4 deg C	UNIO02	K41	10/31/2024	8270E
P4663-06	RES-BUILDING-PAD-NO-3	Solid	PCB	Cool 4 deg C	UNIO02	K41	10/31/2024	8082A
P4663-06	RES-BUILDING-PAD-NO-3	Solid	Pesticide-TCL	Cool 4 deg C	UNIO02	K41	10/31/2024	8081B
P4663-06	RES-BUILDING-PAD-NO-3	Solid	SVOCMS Group1	Cool 4 deg C	UNIO02	K41	10/31/2024	8270E
P4663-08	RES-BUILDING-PAD-NO-2	Solid	PCB	Cool 4 deg C	UNIO02	K41	10/31/2024	8082A
P4663-08	RES-BUILDING-PAD-NO-2	Solid	Pesticide-TCL	Cool 4 deg C	UNIO02	K41	10/31/2024	8081B
P4663-08	RES-BUILDING-PAD-NO-2	Solid	SVOCMS Group1	Cool 4 deg C	UNIO02	K41	10/31/2024	8270E

254 of 995

Date/Time 11/01/24 11:00
Raw Sample Received by: RJ (Ecl Tech)
Raw Sample Relinquished by: RM

Date/Time 11/01/24 11:15
Raw Sample Received by: RM
Raw Sample Relinquished by: RJ (Ecl Tech)

P4663

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

LAB CHRONICLE

OrderID:	P4663	**OrderDate:**	10/31/2024 3:05:00 PM
Client:	Union Paving & Construction Company	**Project:**	Rt. 10 Whippany
Contact:	Gregory Butler	**Location:**	K41,VOA Ref. #2 Soil

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P4663-02	**TENNANT-PAD-2-3-STOCKPILE**	**SOIL**			**10/31/24**			**10/31/24**
			SVOCMS Group1	8270E		11/01/24	11/01/24	
P4663-04	**RES-BUILDING-PAD-NO-11**	**SOIL**			**10/31/24**			**10/31/24**
			SVOCMS Group1	8270E		11/01/24	11/01/24	
P4663-06	**RES-BUILDING-PAD-NO-3**	**SOIL**			**10/31/24**			**10/31/24**
			SVOCMS Group1	8270E		11/01/24	11/01/24	
P4663-08	**RES-BUILDING-PAD-NO-2**	**SOIL**			**10/31/24**			**10/31/24**
			SVOCMS Group1	8270E		11/01/24	11/01/24	

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Hit Summary Sheet
SW-846

SDG No.: P4663 **Order ID:** P4663

Client: Union Paving & Construction Company **Project ID:** Rt. 10 Whippany

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID :	**TENNANT-PAD-2-3-STOCKPIL**							
P4663-02	TENNANT-PAD-2-3-	SOIL	4,4-DDT	0.21	J	0.19	1.90	ug/kg
P4663-02	TENNANT-PAD-2-3-	SOIL	alpha-Chlordane	0.48	JP	0.19	1.90	ug/kg
			Total Concentration:	**0.690**				
Client ID :	**RES-BUILDING-PAD-NO-11**							
P4663-04	RES-BUILDING-PAD	SOIL	4,4-DDE	0.22	J	0.14	1.80	ug/kg
			Total Concentration:	**0.220**				

SAMPLE DATA

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Fax : 908 789 8922

Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	10/31/24
Project:	Rt. 10 Whippany	Date Received:	10/31/24
Client Sample ID:	TENNANT-PAD-2-3-STOCKPILE	SDG No.:	P4663
Lab Sample ID:	P4663-02	Matrix:	SOIL
Analytical Method:	SW8081	% Solid:	90.9 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
PL092806.D	1	11/01/24 09:12	11/01/24 15:56	PB164592

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
319-84-6	alpha-BHC	0.20	U	0.20	1.90	ug/kg
319-85-7	beta-BHC	0.54	U	0.54	1.90	ug/kg
319-86-8	delta-BHC	0.52	U	0.52	1.90	ug/kg
58-89-9	gamma-BHC (Lindane)	0.21	U	0.21	1.90	ug/kg
76-44-8	Heptachlor	0.19	U	0.19	1.90	ug/kg
309-00-2	Aldrin	0.15	U	0.15	1.90	ug/kg
1024-57-3	Heptachlor epoxide	0.25	U	0.25	1.90	ug/kg
959-98-8	Endosulfan I	0.19	U	0.19	1.90	ug/kg
60-57-1	Dieldrin	0.16	U	0.16	1.90	ug/kg
72-55-9	4,4-DDE	0.14	U	0.14	1.90	ug/kg
72-20-8	Endrin	0.18	U	0.18	1.90	ug/kg
33213-65-9	Endosulfan II	0.33	U	0.33	1.90	ug/kg
72-54-8	4,4-DDD	0.21	U	0.21	1.90	ug/kg
1031-07-8	Endosulfan Sulfate	0.14	U	0.14	1.90	ug/kg
50-29-3	4,4-DDT	0.21	J	0.19	1.90	ug/kg
72-43-5	Methoxychlor	0.42	U	0.42	1.90	ug/kg
53494-70-5	Endrin ketone	0.24	U	0.24	1.90	ug/kg
7421-93-4	Endrin aldehyde	0.43	U	0.43	1.90	ug/kg
5103-71-9	alpha-Chlordane	0.48	JP	0.19	1.90	ug/kg
5103-74-2	gamma-Chlordane	0.21	U	0.21	1.90	ug/kg
8001-35-2	Toxaphene	5.70	U	5.70	36.3	ug/kg
SURROGATES						
2051-24-3	Decachlorobiphenyl	13.9		30 (10) - 150 (148)	69%	SPK: 20
877-09-8	Tetrachloro-m-xylene	14.8		30 (10) - 150 (159)	74%	SPK: 20

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Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	10/31/24
Project:	Rt. 10 Whippany	Date Received:	10/31/24
Client Sample ID:	TENNANT-PAD-2-3-STOCKPILE	SDG No.:	P4663
Lab Sample ID:	P4663-02	Matrix:	SOIL
Analytical Method:	SW8081	% Solid:	90.9 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
PL092806.D	1	11/01/24 09:12	11/01/24 15:56	PB164592

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:	Union Paving & Construction Company	Date Collected:	10/31/24
Project:	Rt. 10 Whippany	Date Received:	10/31/24
Client Sample ID:	RES-BUILDING-PAD-NO-11	SDG No.:	P4663
Lab Sample ID:	P4663-04	Matrix:	SOIL
Analytical Method:	SW8081	% Solid:	91.7 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
PL092807.D	1	11/01/24 09:12	11/01/24 16:10	PB164592

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
319-84-6	alpha-BHC	0.20	U	0.20	1.80	ug/kg
319-85-7	beta-BHC	0.53	U	0.53	1.80	ug/kg
319-86-8	delta-BHC	0.51	U	0.51	1.80	ug/kg
58-89-9	gamma-BHC (Lindane)	0.21	U	0.21	1.80	ug/kg
76-44-8	Heptachlor	0.18	U	0.18	1.80	ug/kg
309-00-2	Aldrin	0.15	U	0.15	1.80	ug/kg
1024-57-3	Heptachlor epoxide	0.25	U	0.25	1.80	ug/kg
959-98-8	Endosulfan I	0.18	U	0.18	1.80	ug/kg
60-57-1	Dieldrin	0.16	U	0.16	1.80	ug/kg
72-55-9	4,4-DDE	0.22	J	0.14	1.80	ug/kg
72-20-8	Endrin	0.17	U	0.17	1.80	ug/kg
33213-65-9	Endosulfan II	0.33	U	0.33	1.80	ug/kg
72-54-8	4,4-DDD	0.21	U	0.21	1.80	ug/kg
1031-07-8	Endosulfan Sulfate	0.14	U	0.14	1.80	ug/kg
50-29-3	4,4-DDT	0.18	U	0.18	1.80	ug/kg
72-43-5	Methoxychlor	0.41	U	0.41	1.80	ug/kg
53494-70-5	Endrin ketone	0.24	U	0.24	1.80	ug/kg
7421-93-4	Endrin aldehyde	0.42	U	0.42	1.80	ug/kg
5103-71-9	alpha-Chlordane	0.18	U	0.18	1.80	ug/kg
5103-74-2	gamma-Chlordane	0.21	U	0.21	1.80	ug/kg
8001-35-2	Toxaphene	5.70	U	5.70	35.9	ug/kg
SURROGATES						
2051-24-3	Decachlorobiphenyl	12.8		30 (10) - 150 (148)	64%	SPK: 20
877-09-8	Tetrachloro-m-xylene	14.3		30 (10) - 150 (159)	71%	SPK: 20

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Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	10/31/24
Project:	Rt. 10 Whippany	Date Received:	10/31/24
Client Sample ID:	RES-BUILDING-PAD-NO-11	SDG No.:	P4663
Lab Sample ID:	P4663-04	Matrix:	SOIL
Analytical Method:	SW8081	% Solid:	91.7 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
PL092807.D	1	11/01/24 09:12	11/01/24 16:10	PB164592

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:	Union Paving & Construction Company	Date Collected:	10/31/24
Project:	Rt. 10 Whippany	Date Received:	10/31/24
Client Sample ID:	RES-BUILDING-PAD-NO-3	SDG No.:	P4663
Lab Sample ID:	P4663-06	Matrix:	SOIL
Analytical Method:	SW8081	% Solid:	91.2 Decanted:
Sample Wt/Vol:	30.1 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
PL092808.D	1	11/01/24 09:12	11/01/24 16:24	PB164592

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
319-84-6	alpha-BHC	0.20	U	0.20	1.90	ug/kg
319-85-7	beta-BHC	0.54	U	0.54	1.90	ug/kg
319-86-8	delta-BHC	0.51	U	0.51	1.90	ug/kg
58-89-9	gamma-BHC (Lindane)	0.21	U	0.21	1.90	ug/kg
76-44-8	Heptachlor	0.19	U	0.19	1.90	ug/kg
309-00-2	Aldrin	0.15	U	0.15	1.90	ug/kg
1024-57-3	Heptachlor epoxide	0.25	U	0.25	1.90	ug/kg
959-98-8	Endosulfan I	0.19	U	0.19	1.90	ug/kg
60-57-1	Dieldrin	0.16	U	0.16	1.90	ug/kg
72-55-9	4,4-DDE	0.14	U	0.14	1.90	ug/kg
72-20-8	Endrin	0.17	U	0.17	1.90	ug/kg
33213-65-9	Endosulfan II	0.33	U	0.33	1.90	ug/kg
72-54-8	4,4-DDD	0.21	U	0.21	1.90	ug/kg
1031-07-8	Endosulfan Sulfate	0.14	U	0.14	1.90	ug/kg
50-29-3	4,4-DDT	0.19	U	0.19	1.90	ug/kg
72-43-5	Methoxychlor	0.42	U	0.42	1.90	ug/kg
53494-70-5	Endrin ketone	0.24	U	0.24	1.90	ug/kg
7421-93-4	Endrin aldehyde	0.43	U	0.43	1.90	ug/kg
5103-71-9	alpha-Chlordane	0.19	U	0.19	1.90	ug/kg
5103-74-2	gamma-Chlordane	0.21	U	0.21	1.90	ug/kg
8001-35-2	Toxaphene	5.70	U	5.70	36.1	ug/kg
SURROGATES						
2051-24-3	Decachlorobiphenyl	14.8		30 (10) - 150 (148)	74%	SPK: 20
877-09-8	Tetrachloro-m-xylene	14.9		30 (10) - 150 (159)	74%	SPK: 20

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Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	10/31/24
Project:	Rt. 10 Whippany	Date Received:	10/31/24
Client Sample ID:	RES-BUILDING-PAD-NO-3	SDG No.:	P4663
Lab Sample ID:	P4663-06	Matrix:	SOIL
Analytical Method:	SW8081	% Solid:	91.2 Decanted:
Sample Wt/Vol:	30.1 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
PL092808.D	1	11/01/24 09:12	11/01/24 16:24	PB164592

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:	Union Paving & Construction Company	Date Collected:	10/31/24
Project:	Rt. 10 Whippany	Date Received:	10/31/24
Client Sample ID:	RES-BUILDING-PAD-NO-2	SDG No.:	P4663
Lab Sample ID:	P4663-08	Matrix:	SOIL
Analytical Method:	SW8081	% Solid:	91.3 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
PL092809.D	1	11/01/24 09:12	11/01/24 16:38	PB164592

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
319-84-6	alpha-BHC	0.20	U	0.20	1.90	ug/kg
319-85-7	beta-BHC	0.54	U	0.54	1.90	ug/kg
319-86-8	delta-BHC	0.51	U	0.51	1.90	ug/kg
58-89-9	gamma-BHC (Lindane)	0.21	U	0.21	1.90	ug/kg
76-44-8	Heptachlor	0.19	U	0.19	1.90	ug/kg
309-00-2	Aldrin	0.15	U	0.15	1.90	ug/kg
1024-57-3	Heptachlor epoxide	0.25	U	0.25	1.90	ug/kg
959-98-8	Endosulfan I	0.19	U	0.19	1.90	ug/kg
60-57-1	Dieldrin	0.16	U	0.16	1.90	ug/kg
72-55-9	4,4-DDE	0.14	U	0.14	1.90	ug/kg
72-20-8	Endrin	0.17	U	0.17	1.90	ug/kg
33213-65-9	Endosulfan II	0.33	U	0.33	1.90	ug/kg
72-54-8	4,4-DDD	0.21	U	0.21	1.90	ug/kg
1031-07-8	Endosulfan Sulfate	0.14	U	0.14	1.90	ug/kg
50-29-3	4,4-DDT	0.19	U	0.19	1.90	ug/kg
72-43-5	Methoxychlor	0.42	U	0.42	1.90	ug/kg
53494-70-5	Endrin ketone	0.24	U	0.24	1.90	ug/kg
7421-93-4	Endrin aldehyde	0.43	U	0.43	1.90	ug/kg
5103-71-9	alpha-Chlordane	0.19	U	0.19	1.90	ug/kg
5103-74-2	gamma-Chlordane	0.21	U	0.21	1.90	ug/kg
8001-35-2	Toxaphene	5.70	U	5.70	36.1	ug/kg
SURROGATES						
2051-24-3	Decachlorobiphenyl	16.0		30 (10) - 150 (148)	80%	SPK: 20
877-09-8	Tetrachloro-m-xylene	18.0		30 (10) - 150 (159)	90%	SPK: 20

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

Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	10/31/24
Project:	Rt. 10 Whippany	Date Received:	10/31/24
Client Sample ID:	RES-BUILDING-PAD-NO-2	SDG No.:	P4663
Lab Sample ID:	P4663-08	Matrix:	SOIL
Analytical Method:	SW8081	% Solid:	91.3 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
PL092809.D	1	11/01/24 09:12	11/01/24 16:38	PB164592

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

QC SUMMARY

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

Surrogate Summary

SDG No.: P4663

Client: Union Paving & Construction Company

Analytical Method: 8081B

Lab Sample ID	Client ID	Parameter	Column	Spike	Result	Rec	Qual	Limits Low	Limits High
I.BLK-PL092652.D	PIBLK-PL092652.D	Decachlorobiphenyl	1	20	22.7	114		30 (43)	150 (140)
		Tetrachloro-m-xylene	1	20	21.6	108		30 (77)	150 (126)
		Decachlorobiphenyl	2	20	21.7	109		30 (43)	150 (140)
		Tetrachloro-m-xylene	2	20	20.4	102		30 (77)	150 (126)
I.BLK-PL092799.D	PIBLK-PL092799.D	Decachlorobiphenyl	1	20	21.1	105		30 (43)	150 (140)
		Tetrachloro-m-xylene	1	20	20.6	103		30 (77)	150 (126)
		Decachlorobiphenyl	2	20	21.8	109		30 (43)	150 (140)
		Tetrachloro-m-xylene	2	20	19.7	98		30 (77)	150 (126)
PB164592BL	PB164592BL	Decachlorobiphenyl	1	20	21.2	106		30 (10)	150 (148)
		Tetrachloro-m-xylene	1	20	20.0	100		30 (10)	150 (159)
		Decachlorobiphenyl	2	20	22.0	110		30 (10)	150 (148)
		Tetrachloro-m-xylene	2	20	19.1	95		30 (10)	150 (159)
PB164592BS	PB164592BS	Decachlorobiphenyl	1	20	20.8	104		30 (10)	150 (148)
		Tetrachloro-m-xylene	1	20	19.5	98		30 (10)	150 (159)
		Decachlorobiphenyl	2	20	21.2	106		30 (10)	150 (148)
		Tetrachloro-m-xylene	2	20	18.3	91		30 (10)	150 (159)
P4663-02	TENNANT-PAD-2-3-STOCKPILE	Decachlorobiphenyl	1	20	13.9	69		30 (10)	150 (148)
		Tetrachloro-m-xylene	1	20	14.8	74		30 (10)	150 (159)
		Decachlorobiphenyl	2	20	11.7	58		30 (10)	150 (148)
		Tetrachloro-m-xylene	2	20	14.5	72		30 (10)	150 (159)
P4663-04	RES-BUILDING-PAD-NO-11	Decachlorobiphenyl	1	20	12.8	64		30 (10)	150 (148)
		Tetrachloro-m-xylene	1	20	14.3	71		30 (10)	150 (159)
		Decachlorobiphenyl	2	20	11.7	58		30 (10)	150 (148)
		Tetrachloro-m-xylene	2	20	13.2	66		30 (10)	150 (159)
P4663-06	RES-BUILDING-PAD-NO-3	Decachlorobiphenyl	1	20	14.8	74		30 (10)	150 (148)
		Tetrachloro-m-xylene	1	20	14.9	74		30 (10)	150 (159)
		Decachlorobiphenyl	2	20	11.8	59		30 (10)	150 (148)
		Tetrachloro-m-xylene	2	20	14.6	73		30 (10)	150 (159)
P4663-08	RES-BUILDING-PAD-NO-2	Decachlorobiphenyl	1	20	16.0	80		30 (10)	150 (148)
		Tetrachloro-m-xylene	1	20	18.0	90		30 (10)	150 (159)
		Decachlorobiphenyl	2	20	14.4	72		30 (10)	150 (148)
		Tetrachloro-m-xylene	2	20	17.2	86		30 (10)	150 (159)
P4663-08MS	RES-BUILDING-PAD-NO-2MS	Decachlorobiphenyl	1	20	14.1	71		30 (10)	150 (148)
		Tetrachloro-m-xylene	1	20	17.2	86		30 (10)	150 (159)
		Decachlorobiphenyl	2	20	11.9	59		30 (10)	150 (148)
		Tetrachloro-m-xylene	2	20	13.4	67		30 (10)	150 (159)
P4663-08MSD	RES-BUILDING-PAD-NO-2MSD	Decachlorobiphenyl	1	20	13.5	67		30 (10)	150 (148)
		Tetrachloro-m-xylene	1	20	17.4	87		30 (10)	150 (159)
		Decachlorobiphenyl	2	20	12.1	60		30 (10)	150 (148)
		Tetrachloro-m-xylene	2	20	13.4	67		30 (10)	150 (159)
I.BLK-PL092812.D	PIBLK-PL092812.D	Decachlorobiphenyl	1	20	20.9	105		30 (43)	150 (140)

( ) = LABORATORY INHOUSE LIMIT

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Surrogate Summary

SDG No.: P4663

Client: Union Paving & Construction Company

Analytical Method: 8081B

Lab Sample ID	Client ID	Parameter	Column	Spike	Result	Rec	Qual	Limits Low	Limits High
I.BLK-PL092812.D	PIBLK-PL092812.D	Tetrachloro-m-xylene	1	20	20.4	102		30 (77)	150 (126)
		Decachlorobiphenyl	2	20	19.7	98		30 (43)	150 (140)
		Tetrachloro-m-xylene	2	20	19.9	99		30 (77)	150 (126)

( ) = LABORATORY INHOUSE LIMIT

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: P4663

Client: Union Paving & Construction Company

Analytical Method: 8081B **DataFile :** PL092810.D

Lab Sample ID:	Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Client Sample ID:	**RES-BUILDING-PAD-NO-2MS**											
P4663-08MS	alpha-BHC	18.24	0	15.5	ug/kg	85				30 (60)	150 (144)	
	beta-BHC	18.24	0	17.7	ug/kg	97				30 (54)	150 (143)	
	delta-BHC	18.24	0	4.60	ug/kg	25	*			30 (47)	150 (144)	
	gamma-BHC (Lindane)	18.24	0	15.7	ug/kg	86				30 (61)	150 (140)	
	Heptachlor	18.24	0	17.9	ug/kg	98				30 (63)	150 (135)	
	Aldrin	18.24	0	17.2	ug/kg	94				30 (49)	150 (139)	
	Heptachlor epoxide	18.24	0	17.0	ug/kg	93				30 (32)	150 (180)	
	Endosulfan I	18.24	0	17.5	ug/kg	96				30 (56)	150 (142)	
	Dieldrin	18.24	0	17.5	ug/kg	96				30 (47)	150 (161)	
	4,4'-DDE	18.24	0	18.1	ug/kg	99				30 (55)	150 (136)	
	Endrin	18.24	0	17.8	ug/kg	98				30 (57)	150 (139)	
	Endosulfan II	18.24	0	16.8	ug/kg	92				30 (40)	150 (163)	
	4,4'-DDD	18.24	0	16.4	ug/kg	90				30 (37)	150 (192)	
	Endosulfan sulfate	18.24	0	13.4	ug/kg	73				30 (62)	150 (139)	
	4,4'-DDT	18.24	0	16.7	ug/kg	92				30 (51)	150 (146)	
	Methoxychlor	18.24	0	16.6	ug/kg	91				30 (54)	150 (136)	
	Endrin ketone	18.24	0	15.8	ug/kg	87				30 (60)	150 (129)	
	Endrin aldehyde	18.24	0	15.9	ug/kg	87				30 (59)	150 (132)	
	alpha-Chlordane	18.24	0	17.6	ug/kg	96				30 (30)	150 (192)	
	gamma-Chlordane	18.24	0	17.8	ug/kg	98				30 (44)	150 (175)	

( ) = LABORATORY INHOUSE LIMIT

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: P4663

Client: Union Paving & Construction Company

Analytical Method: 8081B **DataFile :** PL092811.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:	**RES-BUILDING-PAD-NO-2MSD**											
P4663-08MSD	alpha-BHC	18.23	0	15.5	ug/kg	85		0		30 (60)	150 (144)	30 (20)
	beta-BHC	18.23	0	17.8	ug/kg	98		1		30 (54)	150 (143)	30 (20)
	delta-BHC	18.23	0	4.60	ug/kg	25	*	0		30 (47)	150 (144)	30 (20)
	gamma-BHC (Lindane)	18.23	0	15.8	ug/kg	87		1		30 (61)	150 (140)	30 (20)
	Heptachlor	18.23	0	17.9	ug/kg	98		0		30 (63)	150 (135)	30 (20)
	Aldrin	18.23	0	17.0	ug/kg	93		1		30 (49)	150 (139)	30 (20)
	Heptachlor epoxide	18.23	0	17.4	ug/kg	95		2		30 (32)	150 (180)	30 (20)
	Endosulfan I	18.23	0	17.5	ug/kg	96		0		30 (56)	150 (142)	30 (20)
	Dieldrin	18.23	0	17.5	ug/kg	96		0		30 (47)	150 (161)	30 (20)
	4,4'-DDE	18.23	0	18.0	ug/kg	99		0		30 (55)	150 (136)	30 (20)
	Endrin	18.23	0	18.3	ug/kg	100		2		30 (57)	150 (139)	30 (20)
	Endosulfan II	18.23	0	17.3	ug/kg	95		3		30 (40)	150 (163)	30 (20)
	4,4'-DDD	18.23	0	17.4	ug/kg	95		5		30 (37)	150 (192)	30 (20)
	Endosulfan sulfate	18.23	0	13.7	ug/kg	75		3		30 (62)	150 (139)	30 (20)
	4,4'-DDT	18.23	0	16.8	ug/kg	92		0		30 (51)	150 (146)	30 (20)
	Methoxychlor	18.23	0	17.2	ug/kg	94		3		30 (54)	150 (136)	30 (20)
	Endrin ketone	18.23	0	15.9	ug/kg	87		0		30 (60)	150 (129)	30 (20)
	Endrin aldehyde	18.23	0	15.9	ug/kg	87		0		30 (59)	150 (132)	30 (20)
	alpha-Chlordane	18.23	0	17.7	ug/kg	97		1		30 (30)	150 (192)	30 (20)
	gamma-Chlordane	18.23	0	17.9	ug/kg	98		0		30 (44)	150 (175)	30 (20)

( ) = LABORATORY INHOUSE LIMIT

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

SW-846

SDG No.: P4663

Client: Union Paving & Construction Company

Analytical Method: 8081B **Datafile :** PL092802.D

Lab Sample ID	Parameter	Spike	Result	Units	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	Limits RPD
PB164592BS	alpha-BHC	16.65	17.7	ug/kg	106				40 (84)	140 (123)	
	beta-BHC	16.65	18.0	ug/kg	108				40 (82)	140 (123)	
	delta-BHC	16.65	15.6	ug/kg	94				40 (83)	140 (126)	
	gamma-BHC (Lindane)	16.65	17.6	ug/kg	106				40 (83)	140 (125)	
	Heptachlor	16.65	18.7	ug/kg	112				40 (83)	140 (122)	
	Aldrin	16.65	17.8	ug/kg	107				40 (82)	140 (124)	
	Heptachlor epoxide	16.65	18.4	ug/kg	111				40 (83)	140 (120)	
	Endosulfan I	16.65	18.7	ug/kg	112				40 (81)	140 (124)	
	Dieldrin	16.65	18.9	ug/kg	114				40 (85)	140 (121)	
	4,4'-DDE	16.65	18.8	ug/kg	113				40 (81)	140 (123)	
	Endrin	16.65	19.8	ug/kg	119				40 (76)	140 (130)	
	Endosulfan II	16.65	19.2	ug/kg	115				40 (80)	140 (125)	
	4,4'-DDD	16.65	19.0	ug/kg	114				40 (80)	140 (131)	
	Endosulfan sulfate	16.65	18.6	ug/kg	112				40 (81)	140 (122)	
	4,4'-DDT	16.65	19.3	ug/kg	116				40 (70)	140 (129)	
	Methoxychlor	16.65	18.7	ug/kg	112				40 (60)	140 (119)	
	Endrin ketone	16.65	18.7	ug/kg	112				40 (77)	140 (132)	
	Endrin aldehyde	16.65	18.1	ug/kg	109				40 (79)	140 (124)	
	alpha-Chlordane	16.65	18.7	ug/kg	112				40 (84)	140 (120)	
	gamma-Chlordane	16.65	18.9	ug/kg	114				40 (83)	140 (122)	

( ) = LABORATORY INHOUSE LIMIT

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4C

PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB164592BL

Lab Name: CHEMTECH Contract: UNIO02

Lab Code: CHEM Case No.: P4663 SAS No.: P4663 SDG NO.: P4663

Lab Sample ID: PB164592BL Lab File ID: PL092801.D

Matrix: (soil/water) Solid Extraction: (Type)

Sulfur Cleanup: (Y/N) N Date Extracted: 11/01/2024

Date Analyzed (1): 11/01/2024 Date Analyzed (2): 11/01/2024

Time Analyzed (1): 14:47 Time Analyzed (2): 14:47

Instrument ID (1): ECD_L Instrument ID (2): ECD_L

GC Column (1): ZB-MR2 ID: 0.32 (mm) GC Column (2): ZB-MR1 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
PB164592BS	PB164592BS	PL092802.D	11/01/2024	11/01/2024
TENNANT-PAD-2-3-STOCKPILE	P4663-02	PL092806.D	11/01/2024	11/01/2024
RES-BUILDING-PAD-NO-11	P4663-04	PL092807.D	11/01/2024	11/01/2024
RES-BUILDING-PAD-NO-3	P4663-06	PL092808.D	11/01/2024	11/01/2024
RES-BUILDING-PAD-NO-2	P4663-08	PL092809.D	11/01/2024	11/01/2024
RES-BUILDING-PAD-NO-2MS	P4663-08MS	PL092810.D	11/01/2024	11/01/2024
RES-BUILDING-PAD-NO-2MSD	P4663-08MSD	PL092811.D	11/01/2024	11/01/2024

COMMENTS:

QC SAMPLE DATA

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

Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	
Project:	Rt. 10 Whippany	Date Received:	
Client Sample ID:	PB164592BL	SDG No.:	P4663
Lab Sample ID:	PB164592BL	Matrix:	SOIL
Analytical Method:	SW8081	% 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
PL092801.D	1	11/01/24 09:12	11/01/24 14:47	PB164592

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
319-84-6	alpha-BHC	0.18	U	0.18	1.70	ug/kg
319-85-7	beta-BHC	0.49	U	0.49	1.70	ug/kg
319-86-8	delta-BHC	0.47	U	0.47	1.70	ug/kg
58-89-9	gamma-BHC (Lindane)	0.19	U	0.19	1.70	ug/kg
76-44-8	Heptachlor	0.17	U	0.17	1.70	ug/kg
309-00-2	Aldrin	0.14	U	0.14	1.70	ug/kg
1024-57-3	Heptachlor epoxide	0.23	U	0.23	1.70	ug/kg
959-98-8	Endosulfan I	0.17	U	0.17	1.70	ug/kg
60-57-1	Dieldrin	0.15	U	0.15	1.70	ug/kg
72-55-9	4,4-DDE	0.13	U	0.13	1.70	ug/kg
72-20-8	Endrin	0.16	U	0.16	1.70	ug/kg
33213-65-9	Endosulfan II	0.30	U	0.30	1.70	ug/kg
72-54-8	4,4-DDD	0.19	U	0.19	1.70	ug/kg
1031-07-8	Endosulfan Sulfate	0.13	U	0.13	1.70	ug/kg
50-29-3	4,4-DDT	0.17	U	0.17	1.70	ug/kg
72-43-5	Methoxychlor	0.38	U	0.38	1.70	ug/kg
53494-70-5	Endrin ketone	0.22	U	0.22	1.70	ug/kg
7421-93-4	Endrin aldehyde	0.39	U	0.39	1.70	ug/kg
5103-71-9	alpha-Chlordane	0.17	U	0.17	1.70	ug/kg
5103-74-2	gamma-Chlordane	0.19	U	0.19	1.70	ug/kg
8001-35-2	Toxaphene	5.20	U	5.20	33.0	ug/kg
SURROGATES						
2051-24-3	Decachlorobiphenyl	22.0		30 (10) - 150 (148)	110%	SPK: 20
877-09-8	Tetrachloro-m-xylene	20.0		30 (10) - 150 (159)	100%	SPK: 20

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Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	
Project:	Rt. 10 Whippany	Date Received:	
Client Sample ID:	PB164592BL	SDG No.:	P4663
Lab Sample ID:	PB164592BL	Matrix:	SOIL
Analytical Method:	SW8081	% 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
PL092801.D	1	11/01/24 09:12	11/01/24 14:47	PB164592

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

Alliance TECHNICAL GROUP
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Fax : 908 789 8922

Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	10/28/24
Project:	Rt. 10 Whippany	Date Received:	10/28/24
Client Sample ID:	PIBLK-PL092652.D	SDG No.:	P4663
Lab Sample ID:	I.BLK-PL092652.D	Matrix:	WATER
Analytical Method:	SW8081	% 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
PL092652.D	1		10/28/24	PL102824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
319-84-6	alpha-BHC	0.0061	U	0.0061	0.050	ug/L
319-85-7	beta-BHC	0.014	U	0.014	0.050	ug/L
319-86-8	delta-BHC	0.015	U	0.015	0.050	ug/L
58-89-9	gamma-BHC (Lindane)	0.0049	U	0.0049	0.050	ug/L
76-44-8	Heptachlor	0.0054	U	0.0054	0.050	ug/L
309-00-2	Aldrin	0.0044	U	0.0044	0.050	ug/L
1024-57-3	Heptachlor epoxide	0.0090	U	0.0090	0.050	ug/L
959-98-8	Endosulfan I	0.0050	U	0.0050	0.050	ug/L
60-57-1	Dieldrin	0.0047	U	0.0047	0.050	ug/L
72-55-9	4,4-DDE	0.0045	U	0.0045	0.050	ug/L
72-20-8	Endrin	0.0043	U	0.0043	0.050	ug/L
33213-65-9	Endosulfan II	0.0075	U	0.0075	0.050	ug/L
72-54-8	4,4-DDD	0.0092	U	0.0092	0.050	ug/L
1031-07-8	Endosulfan Sulfate	0.0035	U	0.0035	0.050	ug/L
50-29-3	4,4-DDT	0.0044	U	0.0044	0.050	ug/L
72-43-5	Methoxychlor	0.011	U	0.011	0.050	ug/L
53494-70-5	Endrin ketone	0.0097	U	0.0097	0.050	ug/L
7421-93-4	Endrin aldehyde	0.0099	U	0.0099	0.050	ug/L
5103-71-9	alpha-Chlordane	0.0060	U	0.0060	0.050	ug/L
5103-74-2	gamma-Chlordane	0.0060	U	0.0060	0.050	ug/L
8001-35-2	Toxaphene	0.15	U	0.15	1.00	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	22.7		30 (43) - 150 (140)	114%	SPK: 20
877-09-8	Tetrachloro-m-xylene	21.6		30 (77) - 150 (126)	108%	SPK: 20

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Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	10/28/24
Project:	Rt. 10 Whippany	Date Received:	10/28/24
Client Sample ID:	PIBLK-PL092652.D	SDG No.:	P4663
Lab Sample ID:	I.BLK-PL092652.D	Matrix:	WATER
Analytical Method:	SW8081	% 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
PL092652.D	1		10/28/24	PL102824

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:	Union Paving & Construction Company	Date Collected:	11/01/24
Project:	Rt. 10 Whippany	Date Received:	11/01/24
Client Sample ID:	PIBLK-PL092799.D	SDG No.:	P4663
Lab Sample ID:	I.BLK-PL092799.D	Matrix:	WATER
Analytical Method:	SW8081	% 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
PL092799.D	1		11/01/24	pl110124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
319-84-6	alpha-BHC	0.0061	U	0.0061	0.050	ug/L
319-85-7	beta-BHC	0.014	U	0.014	0.050	ug/L
319-86-8	delta-BHC	0.015	U	0.015	0.050	ug/L
58-89-9	gamma-BHC (Lindane)	0.0049	U	0.0049	0.050	ug/L
76-44-8	Heptachlor	0.0054	U	0.0054	0.050	ug/L
309-00-2	Aldrin	0.0044	U	0.0044	0.050	ug/L
1024-57-3	Heptachlor epoxide	0.0090	U	0.0090	0.050	ug/L
959-98-8	Endosulfan I	0.0050	U	0.0050	0.050	ug/L
60-57-1	Dieldrin	0.0047	U	0.0047	0.050	ug/L
72-55-9	4,4-DDE	0.0045	U	0.0045	0.050	ug/L
72-20-8	Endrin	0.0043	U	0.0043	0.050	ug/L
33213-65-9	Endosulfan II	0.0075	U	0.0075	0.050	ug/L
72-54-8	4,4-DDD	0.0092	U	0.0092	0.050	ug/L
1031-07-8	Endosulfan Sulfate	0.0035	U	0.0035	0.050	ug/L
50-29-3	4,4-DDT	0.0044	U	0.0044	0.050	ug/L
72-43-5	Methoxychlor	0.011	U	0.011	0.050	ug/L
53494-70-5	Endrin ketone	0.0097	U	0.0097	0.050	ug/L
7421-93-4	Endrin aldehyde	0.0099	U	0.0099	0.050	ug/L
5103-71-9	alpha-Chlordane	0.0060	U	0.0060	0.050	ug/L
5103-74-2	gamma-Chlordane	0.0060	U	0.0060	0.050	ug/L
8001-35-2	Toxaphene	0.15	U	0.15	1.00	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	21.8		30 (43) - 150 (140)	109%	SPK: 20
877-09-8	Tetrachloro-m-xylene	20.6		30 (77) - 150 (126)	103%	SPK: 20

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Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	11/01/24
Project:	Rt. 10 Whippany	Date Received:	11/01/24
Client Sample ID:	PIBLK-PL092799.D	SDG No.:	P4663
Lab Sample ID:	I.BLK-PL092799.D	Matrix:	WATER
Analytical Method:	SW8081	% 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
PL092799.D	1		11/01/24	pl110124

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:	Union Paving & Construction Company	Date Collected:	11/01/24
Project:	Rt. 10 Whippany	Date Received:	11/01/24
Client Sample ID:	PIBLK-PL092812.D	SDG No.:	P4663
Lab Sample ID:	I.BLK-PL092812.D	Matrix:	WATER
Analytical Method:	SW8081	% 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
PL092812.D	1		11/01/24	pl110124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
319-84-6	alpha-BHC	0.0061	U	0.0061	0.050	ug/L
319-85-7	beta-BHC	0.014	U	0.014	0.050	ug/L
319-86-8	delta-BHC	0.015	U	0.015	0.050	ug/L
58-89-9	gamma-BHC (Lindane)	0.0049	U	0.0049	0.050	ug/L
76-44-8	Heptachlor	0.0054	U	0.0054	0.050	ug/L
309-00-2	Aldrin	0.0044	U	0.0044	0.050	ug/L
1024-57-3	Heptachlor epoxide	0.0090	U	0.0090	0.050	ug/L
959-98-8	Endosulfan I	0.0050	U	0.0050	0.050	ug/L
60-57-1	Dieldrin	0.0047	U	0.0047	0.050	ug/L
72-55-9	4,4-DDE	0.0045	U	0.0045	0.050	ug/L
72-20-8	Endrin	0.0043	U	0.0043	0.050	ug/L
33213-65-9	Endosulfan II	0.0075	U	0.0075	0.050	ug/L
72-54-8	4,4-DDD	0.0092	U	0.0092	0.050	ug/L
1031-07-8	Endosulfan Sulfate	0.0035	U	0.0035	0.050	ug/L
50-29-3	4,4-DDT	0.0044	U	0.0044	0.050	ug/L
72-43-5	Methoxychlor	0.011	U	0.011	0.050	ug/L
53494-70-5	Endrin ketone	0.0097	U	0.0097	0.050	ug/L
7421-93-4	Endrin aldehyde	0.0099	U	0.0099	0.050	ug/L
5103-71-9	alpha-Chlordane	0.0060	U	0.0060	0.050	ug/L
5103-74-2	gamma-Chlordane	0.0060	U	0.0060	0.050	ug/L
8001-35-2	Toxaphene	0.15	U	0.15	1.00	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	20.9		30 (43) - 150 (140)	105%	SPK: 20
877-09-8	Tetrachloro-m-xylene	20.4		30 (77) - 150 (126)	102%	SPK: 20

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Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	11/01/24
Project:	Rt. 10 Whippany	Date Received:	11/01/24
Client Sample ID:	PIBLK-PL092812.D	SDG No.:	P4663
Lab Sample ID:	I.BLK-PL092812.D	Matrix:	WATER
Analytical Method:	SW8081	% 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
PL092812.D	1		11/01/24	pl110124

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:	Union Paving & Construction Company	Date Collected:	
Project:	Rt. 10 Whippany	Date Received:	
Client Sample ID:	PB164592BS	SDG No.:	P4663
Lab Sample ID:	PB164592BS	Matrix:	SOIL
Analytical Method:	SW8081	% 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
PL092802.D	1	11/01/24 09:12	11/01/24 15:01	PB164592

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
319-84-6	alpha-BHC	17.7		0.18	1.70	ug/kg
319-85-7	beta-BHC	18.0		0.49	1.70	ug/kg
319-86-8	delta-BHC	15.6		0.47	1.70	ug/kg
58-89-9	gamma-BHC (Lindane)	17.6		0.19	1.70	ug/kg
76-44-8	Heptachlor	18.7		0.17	1.70	ug/kg
309-00-2	Aldrin	17.8		0.14	1.70	ug/kg
1024-57-3	Heptachlor epoxide	18.4		0.23	1.70	ug/kg
959-98-8	Endosulfan I	18.7		0.17	1.70	ug/kg
60-57-1	Dieldrin	18.9		0.15	1.70	ug/kg
72-55-9	4,4-DDE	18.8		0.13	1.70	ug/kg
72-20-8	Endrin	19.8		0.16	1.70	ug/kg
33213-65-9	Endosulfan II	19.2		0.30	1.70	ug/kg
72-54-8	4,4-DDD	19.0		0.19	1.70	ug/kg
1031-07-8	Endosulfan Sulfate	18.6		0.13	1.70	ug/kg
50-29-3	4,4-DDT	19.3		0.17	1.70	ug/kg
72-43-5	Methoxychlor	18.7		0.38	1.70	ug/kg
53494-70-5	Endrin ketone	18.7		0.22	1.70	ug/kg
7421-93-4	Endrin aldehyde	18.1		0.39	1.70	ug/kg
5103-71-9	alpha-Chlordane	18.7		0.17	1.70	ug/kg
5103-74-2	gamma-Chlordane	18.9		0.19	1.70	ug/kg
8001-35-2	Toxaphene	5.20	U	5.20	33.0	ug/kg
SURROGATES						
2051-24-3	Decachlorobiphenyl	21.2		30 (10) - 150 (148)	106%	SPK: 20
877-09-8	Tetrachloro-m-xylene	19.5		30 (10) - 150 (159)	98%	SPK: 20

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Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	
Project:	Rt. 10 Whippany	Date Received:	
Client Sample ID:	PB164592BS	SDG No.:	P4663
Lab Sample ID:	PB164592BS	Matrix:	SOIL
Analytical Method:	SW8081	% 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
PL092802.D	1	11/01/24 09:12	11/01/24 15:01	PB164592

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:	Union Paving & Construction Company	Date Collected:	10/31/24
Project:	Rt. 10 Whippany	Date Received:	10/31/24
Client Sample ID:	RES-BUILDING-PAD-NO-2MS	SDG No.:	P4663
Lab Sample ID:	P4663-08MS	Matrix:	SOIL
Analytical Method:	SW8081	% Solid:	91.3 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
PL092810.D	1	11/01/24 09:12	11/01/24 16:52	PB164592

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
319-84-6	alpha-BHC	15.5		0.20	1.90	ug/kg
319-85-7	beta-BHC	17.7		0.54	1.90	ug/kg
319-86-8	delta-BHC	4.60		0.51	1.90	ug/kg
58-89-9	gamma-BHC (Lindane)	15.7		0.21	1.90	ug/kg
76-44-8	Heptachlor	17.9		0.19	1.90	ug/kg
309-00-2	Aldrin	17.2		0.15	1.90	ug/kg
1024-57-3	Heptachlor epoxide	17.0		0.25	1.90	ug/kg
959-98-8	Endosulfan I	17.5		0.19	1.90	ug/kg
60-57-1	Dieldrin	17.5		0.16	1.90	ug/kg
72-55-9	4,4-DDE	18.1		0.14	1.90	ug/kg
72-20-8	Endrin	17.8		0.18	1.90	ug/kg
33213-65-9	Endosulfan II	16.8		0.33	1.90	ug/kg
72-54-8	4,4-DDD	16.4		0.21	1.90	ug/kg
1031-07-8	Endosulfan Sulfate	13.4		0.14	1.90	ug/kg
50-29-3	4,4-DDT	16.7		0.19	1.90	ug/kg
72-43-5	Methoxychlor	16.6		0.42	1.90	ug/kg
53494-70-5	Endrin ketone	15.8		0.24	1.90	ug/kg
7421-93-4	Endrin aldehyde	15.9		0.43	1.90	ug/kg
5103-71-9	alpha-Chlordane	17.6		0.19	1.90	ug/kg
5103-74-2	gamma-Chlordane	17.8		0.21	1.90	ug/kg
8001-35-2	Toxaphene	5.70	U	5.70	36.1	ug/kg
SURROGATES						
2051-24-3	Decachlorobiphenyl	14.1		30 (10) - 150 (148)	71%	SPK: 20
877-09-8	Tetrachloro-m-xylene	17.2		30 (10) - 150 (159)	86%	SPK: 20

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Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	10/31/24
Project:	Rt. 10 Whippany	Date Received:	10/31/24
Client Sample ID:	RES-BUILDING-PAD-NO-2MS	SDG No.:	P4663
Lab Sample ID:	P4663-08MS	Matrix:	SOIL
Analytical Method:	SW8081	% Solid:	91.3 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
PL092810.D	1	11/01/24 09:12	11/01/24 16:52	PB164592

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:	Union Paving & Construction Company	Date Collected:	10/31/24
Project:	Rt. 10 Whippany	Date Received:	10/31/24
Client Sample ID:	RES-BUILDING-PAD-NO-2MSD	SDG No.:	P4663
Lab Sample ID:	P4663-08MSD	Matrix:	SOIL
Analytical Method:	SW8081	% Solid:	91.3 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
PL092811.D	1	11/01/24 09:12	11/01/24 17:06	PB164592

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
319-84-6	alpha-BHC	15.5		0.20	1.90	ug/kg
319-85-7	beta-BHC	17.8		0.54	1.90	ug/kg
319-86-8	delta-BHC	4.60		0.51	1.90	ug/kg
58-89-9	gamma-BHC (Lindane)	15.8		0.21	1.90	ug/kg
76-44-8	Heptachlor	17.9		0.19	1.90	ug/kg
309-00-2	Aldrin	17.0		0.15	1.90	ug/kg
1024-57-3	Heptachlor epoxide	17.4		0.25	1.90	ug/kg
959-98-8	Endosulfan I	17.5		0.19	1.90	ug/kg
60-57-1	Dieldrin	17.5		0.16	1.90	ug/kg
72-55-9	4,4-DDE	18.0		0.14	1.90	ug/kg
72-20-8	Endrin	18.3		0.18	1.90	ug/kg
33213-65-9	Endosulfan II	17.3		0.33	1.90	ug/kg
72-54-8	4,4-DDD	17.4		0.21	1.90	ug/kg
1031-07-8	Endosulfan Sulfate	13.7		0.14	1.90	ug/kg
50-29-3	4,4-DDT	16.8		0.19	1.90	ug/kg
72-43-5	Methoxychlor	17.2		0.42	1.90	ug/kg
53494-70-5	Endrin ketone	15.9		0.24	1.90	ug/kg
7421-93-4	Endrin aldehyde	15.9		0.43	1.90	ug/kg
5103-71-9	alpha-Chlordane	17.7		0.19	1.90	ug/kg
5103-74-2	gamma-Chlordane	17.9		0.21	1.90	ug/kg
8001-35-2	Toxaphene	5.70	U	5.70	36.1	ug/kg
SURROGATES						
2051-24-3	Decachlorobiphenyl	13.5		30 (10) - 150 (148)	67%	SPK: 20
877-09-8	Tetrachloro-m-xylene	17.4		30 (10) - 150 (159)	87%	SPK: 20

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Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	10/31/24
Project:	Rt. 10 Whippany	Date Received:	10/31/24
Client Sample ID:	RES-BUILDING-PAD-NO-2MSD	SDG No.:	P4663
Lab Sample ID:	P4663-08MSD	Matrix:	SOIL
Analytical Method:	SW8081	% Solid:	91.3 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
PL092811.D	1	11/01/24 09:12	11/01/24 17:06	PB164592

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

CALIBRATION SUMMARY

Alliance TECHNICAL GROUP
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RETENTION TIMES OF INITIAL CALIBRATION

Contract: UNIO02

Lab Code: CHEM **Case No.:** P4663 **SAS No.:** P4663 **SDG NO.:** P4663

Instrument ID: ECD_L **Calibration Date(s):** 10/28/2024 10/28/2024

Calibration Times: 14:43 15:36

GC Column: ZB-MR2 ID: 0.32 (mm)

LAB FILE ID: RT 100 = PL092655.D RT 075 = PL092656.D

RT 050 = PL092657.D RT 025 = PL092658.D RT 005 = PL092659.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	6.19	6.19	6.19	6.19	6.19	6.19	6.09	6.29
4,4'-DDT	7.02	7.02	7.02	7.02	7.02	7.02	6.92	7.12
Aldrin	5.26	5.26	5.26	5.26	5.26	5.26	5.16	5.36
alpha-BHC	4.00	4.00	4.00	4.00	4.00	4.00	3.90	4.10
alpha-Chlordane	6.02	6.02	6.02	6.02	6.02	6.02	5.92	6.12
beta-BHC	4.53	4.53	4.53	4.53	4.53	4.53	4.43	4.63
Decachlorobiphenyl	9.05	9.05	9.05	9.05	9.05	9.05	8.95	9.15
delta-BHC	4.77	4.77	4.77	4.77	4.77	4.77	4.67	4.87
Dieldrin	6.35	6.35	6.35	6.35	6.34	6.34	6.24	6.44
Endosulfan I	6.07	6.07	6.07	6.07	6.07	6.07	5.97	6.17
Endosulfan II	6.79	6.79	6.79	6.79	6.79	6.79	6.69	6.89
Endosulfan sulfate	7.16	7.16	7.16	7.16	7.16	7.16	7.06	7.26
Endrin	6.58	6.58	6.57	6.57	6.57	6.57	6.47	6.67
Endrin aldehyde	6.92	6.92	6.92	6.92	6.92	6.92	6.82	7.02
Endrin ketone	7.64	7.64	7.64	7.64	7.64	7.64	7.54	7.74
gamma-BHC (Lindane)	4.33	4.33	4.33	4.33	4.33	4.33	4.23	4.43
gamma-Chlordane	5.94	5.94	5.94	5.94	5.94	5.94	5.84	6.04
Heptachlor	4.92	4.92	4.92	4.92	4.92	4.92	4.82	5.02
Heptachlor epoxide	5.69	5.69	5.68	5.69	5.68	5.68	5.58	5.78
Methoxychlor	7.50	7.50	7.50	7.50	7.50	7.50	7.40	7.60
Tetrachloro-m-xylene	3.54	3.54	3.54	3.54	3.54	3.54	3.44	3.64

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RETENTION TIMES OF INITIAL CALIBRATION

Contract: UNIO02

Lab Code: CHEM **Case No.:** P4663 **SAS No.:** P4663 **SDG NO.:** P4663

Instrument ID: ECD_L **Calibration Date(s):** 10/28/2024 10/28/2024

Calibration Times: 14:43 15:36

GC Column: ZB-MR1 ID: 0.32 (mm)

LAB FILE ID: RT 100 = PL092655.D RT 075 = PL092656.D

RT 050 = PL092657.D RT 025 = PL092658.D RT 005 = PL092659.D

COMPOUND	RT 100	RT 075	RT 050	RT 025	RT 005	MEAN RT	RT WINDOW FROM	RT WINDOW TO
4,4'-DDD	5.79	5.79	5.79	5.79	5.79	5.79	5.69	5.89
4,4'-DDE	5.24	5.24	5.24	5.24	5.24	5.24	5.14	5.34
4,4'-DDT	6.04	6.04	6.04	6.04	6.04	6.04	5.94	6.14
Aldrin	4.23	4.23	4.23	4.23	4.23	4.23	4.13	4.33
alpha-BHC	3.28	3.28	3.28	3.28	3.28	3.28	3.18	3.38
alpha-Chlordane	5.05	5.05	5.05	5.05	5.05	5.05	4.95	5.15
beta-BHC	3.91	3.91	3.91	3.91	3.91	3.91	3.81	4.01
Decachlorobiphenyl	7.92	7.92	7.92	7.92	7.92	7.92	7.82	8.02
delta-BHC	4.14	4.14	4.14	4.14	4.14	4.14	4.04	4.24
Dieldrin	5.37	5.37	5.37	5.37	5.37	5.37	5.27	5.47
Endosulfan I	5.10	5.10	5.10	5.10	5.10	5.10	5.00	5.20
Endosulfan II	5.94	5.94	5.94	5.94	5.94	5.94	5.84	6.04
Endosulfan sulfate	6.34	6.34	6.34	6.34	6.34	6.34	6.24	6.44
Endrin	5.64	5.64	5.64	5.64	5.64	5.64	5.54	5.74
Endrin aldehyde	6.12	6.12	6.12	6.12	6.12	6.12	6.02	6.22
Endrin ketone	6.84	6.84	6.84	6.84	6.84	6.84	6.74	6.94
gamma-BHC (Lindane)	3.61	3.61	3.61	3.61	3.61	3.61	3.51	3.71
gamma-Chlordane	4.98	4.98	4.98	4.98	4.98	4.98	4.88	5.08
Heptachlor	3.95	3.95	3.95	3.95	3.95	3.95	3.85	4.05
Heptachlor epoxide	4.73	4.73	4.73	4.73	4.73	4.73	4.63	4.83
Methoxychlor	6.61	6.62	6.62	6.62	6.61	6.61	6.51	6.71
Tetrachloro-m-xylene	2.78	2.78	2.78	2.78	2.78	2.78	2.68	2.88

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CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: UNIO02

Lab Code: CHEM **Case No.:** P4663 **SAS No.:** P4663 **SDG NO.:** P4663

Instrument ID: ECD_L **Calibration Date(s):** 10/28/2024 10/28/2024

Calibration Times: 14:43 15:36

GC Column: ZB-MR2 **ID:** 0.32 **(mm)**

LAB FILE ID: **CF 100 =** PL092655.D **CF 075 =** PL092656.D

CF 050 = PL092657.D **CF 025 =** PL092658.D **CF 005 =** PL092659.D

COMPOUND	CF 100	CF 075	CF 050	CF 025	CF 005	CF	% RSD
4,4'-DDD	1810270000	1801980000	1817980000	1967770000	2199620000	1919520000	9
4,4'-DDE	2254070000	2226390000	2230050000	2402470000	2732960000	2369190000	9
4,4'-DDT	1948940000	1933390000	1940720000	2113460000	2412250000	2069750000	10
Aldrin	2847480000	2802990000	2807290000	3047230000	3502400000	3001480000	10
alpha-BHC	3356530000	3271880000	3230400000	3397090000	3701950000	3391570000	5
alpha-Chlordane	2486640000	2469090000	2489960000	2701720000	3093310000	2648140000	10
beta-BHC	1343260000	1339050000	1368530000	1491800000	1684660000	1445460000	10
Decachlorobiphenyl	1738840000	1756630000	1819720000	1998760000	2308800000	1924550000	12
delta-BHC	3067660000	2980040000	2949010000	3119670000	3533000000	3129870000	8
Dieldrin	2486930000	2456960000	2476030000	2679410000	3078050000	2635480000	10
Endosulfan I	2320690000	2313950000	2348370000	2546170000	2977620000	2501360000	11
Endosulfan II	2159880000	2160930000	2205230000	2449960000	2943170000	2383830000	14
Endosulfan sulfate	1974140000	1979440000	2024740000	2239840000	2633550000	2170340000	13
Endrin	2111540000	2103000000	2121260000	2324460000	2723040000	2276660000	12
Endrin aldehyde	1712300000	1718280000	1758160000	1955910000	2245210000	1877970000	12
Endrin ketone	2253830000	2246660000	2273910000	2471090000	2868570000	2422810000	11
gamma-BHC (Lindane)	3198960000	3133030000	3104430000	3278360000	3583040000	3259560000	6
gamma-Chlordane	2496700000	2477960000	2491940000	2703470000	3133120000	2660640000	11
Heptachlor	2817300000	2795570000	2829220000	3064000000	3509480000	3003110000	10
Heptachlor epoxide	2536240000	2521530000	2566410000	2821600000	3361270000	2761410000	13
Methoxychlor	1040530000	1050870000	1078280000	1189160000	1341160000	1140000000	11
Tetrachloro-m-xylene	2319350000	2304070000	2328420000	2512350000	2786990000	2450240000	8

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CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: UNIO02

Lab Code: CHEM **Case No.:** P4663 **SAS No.:** P4663 **SDG NO.:** P4663

Instrument ID: ECD_L **Calibration Date(s):** 10/28/2024 10/28/2024

Calibration Times: 14:43 15:36

GC Column: ZB-MR1 **ID:** 0.32 **(mm)**

LAB FILE ID: **CF 100 =** PL092655.D **CF 075 =** PL092656.D

CF 050 = PL092657.D **CF 025 =** PL092658.D **CF 005 =** PL092659.D

COMPOUND	CF 100	CF 075	CF 050	CF 025	CF 005	CF	% RSD
4,4'-DDD	2614880000	2506250000	2443430000	2489210000	2396540000	2490060000	3
4,4'-DDE	3334990000	3225880000	3154950000	3209960000	3182260000	3221610000	2
4,4'-DDT	2797500000	2713050000	2637310000	2653690000	2609750000	2682260000	3
Aldrin	3840860000	3705070000	3619180000	3619340000	3516600000	3660210000	3
alpha-BHC	4282500000	4089170000	3973860000	3934480000	3670850000	3990170000	6
alpha-Chlordane	3409310000	3303380000	3254510000	3329310000	3333630000	3326030000	2
beta-BHC	1625150000	1594840000	1591160000	1661990000	1758110000	1646250000	4
Decachlorobiphenyl	2606810000	2575500000	2605540000	2793460000	3064890000	2729240000	8
delta-BHC	4088000000	3924730000	3802680000	3782230000	3618150000	3843150000	5
Dieldrin	3483370000	3364390000	3290100000	3303460000	3260200000	3340300000	3
Endosulfan I	3111480000	3032780000	2993580000	3072340000	3055530000	3053140000	1
Endosulfan II	2881520000	2813750000	2779930000	2861240000	2829950000	2833280000	1
Endosulfan sulfate	2707530000	2646200000	2623690000	2712350000	2794620000	2696880000	2
Endrin	2969490000	2878380000	2828080000	2876210000	2912860000	2893010000	2
Endrin aldehyde	2273700000	2244250000	2230130000	2333460000	2454860000	2307280000	4
Endrin ketone	3089790000	3023040000	3013060000	3097240000	3120850000	3068800000	2
gamma-BHC (Lindane)	4083950000	3934430000	3833920000	3828430000	3616530000	3859450000	4
gamma-Chlordane	3470230000	3355710000	3294030000	3342020000	3346470000	3361690000	2
Heptachlor	3876200000	3766580000	3709120000	3779090000	3738650000	3773930000	2
Heptachlor epoxide	3405420000	3318630000	3272090000	3352830000	3358060000	3341410000	1
Methoxychlor	1400820000	1385450000	1393920000	1470360000	1489590000	1428030000	3
Tetrachloro-m-xylene	2724750000	2661560000	2643180000	2728430000	2847900000	2721160000	3

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INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Contract: UNIO02

Lab Code: CHEM **Case No.:** P4663 **SAS No.:** P4663 **SDG NO.:** P4663

Instrument ID: ECD_L **Date(s) Analyzed:** 10/28/2024 10/28/2024

GC Column: ZB-MR2 **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	23962400
		2	6.44	6.34	6.54	13823600
		3	7.06	6.96	7.16	79159800
		4	7.15	7.05	7.25	59803700
		5	7.93	7.83	8.03	45329200

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INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Contract: UNIO02

Lab Code: CHEM **Case No.:** P4663 **SAS No.:** P4663 **SDG NO.:** P4663

Instrument ID: ECD_L **Date(s) Analyzed:** 10/28/2024 10/28/2024

GC Column: ZB-MR1 **ID:** 0.32 (mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR
Toxaphene	500	1	5.01	4.91	5.11	19952700
		2	5.33	5.23	5.43	19749600
		3	6.61	6.51	6.71	70222500
		4	6.73	6.63	6.83	98337700
		5	7.05	6.95	7.15	65479700

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CALIBRATION VERIFICATION SUMMARY

Contract: UNIO02

Lab Code: CHEM **Case No.:** P4663 **SAS No.:** P4663 **SDG NO.:** P4663

Continuing Calib Date: 11/01/2024 **Initial Calibration Date(s):** 10/28/2024 10/28/2024

Continuing Calib Time: 14:29 **Initial Calibration Time(s):** 14:43 15:36

GC Column: ZB-MR2 **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Decachlorobiphenyl	9.06	9.05	8.95	9.15	-0.01
Tetrachloro-m-xylene	3.54	3.54	3.44	3.64	0.00
alpha-BHC	4.00	4.00	3.90	4.10	0.00
beta-BHC	4.53	4.53	4.43	4.63	0.00
delta-BHC	4.78	4.77	4.67	4.87	-0.01
gamma-BHC (Lindane)	4.33	4.33	4.23	4.43	0.00
Heptachlor	4.92	4.92	4.82	5.02	0.00
Aldrin	5.26	5.26	5.16	5.36	0.00
Heptachlor epoxide	5.69	5.68	5.58	5.78	-0.01
Endosulfan I	6.07	6.07	5.97	6.17	0.00
Dieldrin	6.35	6.35	6.25	6.45	0.00
4,4'-DDE	6.20	6.19	6.09	6.29	-0.01
Endrin	6.58	6.57	6.47	6.67	-0.01
Endosulfan II	6.80	6.79	6.69	6.89	-0.01
4,4'-DDD	6.71	6.71	6.61	6.81	0.00
Endosulfan sulfate	7.16	7.16	7.06	7.26	0.00
4,4'-DDT	7.03	7.02	6.92	7.12	-0.01
Methoxychlor	7.50	7.50	7.40	7.60	0.00
Endrin ketone	7.65	7.64	7.54	7.74	-0.01
Endrin aldehyde	6.93	6.92	6.82	7.02	-0.01
alpha-Chlordane	6.02	6.02	5.92	6.12	0.00
gamma-Chlordane	5.94	5.94	5.84	6.04	0.00

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CALIBRATION VERIFICATION SUMMARY

Contract: UNIO02

Lab Code: CHEM **Case No.:** P4663 **SAS No.:** P4663 **SDG NO.:** P4663

Continuing Calib Date: 11/01/2024 **Initial Calibration Date(s):** 10/28/2024 10/28/2024

Continuing Calib Time: 14:29 **Initial Calibration Time(s):** 14:43 15:36

GC Column: ZB-MR1 **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Decachlorobiphenyl	7.92	7.92	7.82	8.02	0.00
Tetrachloro-m-xylene	2.78	2.78	2.68	2.88	0.00
alpha-BHC	3.28	3.28	3.18	3.38	0.00
beta-BHC	3.91	3.91	3.81	4.01	0.00
delta-BHC	4.14	4.14	4.04	4.24	0.00
gamma-BHC (Lindane)	3.61	3.61	3.51	3.71	0.00
Heptachlor	3.95	3.95	3.85	4.05	0.00
Aldrin	4.23	4.23	4.13	4.33	0.00
Heptachlor epoxide	4.73	4.73	4.63	4.83	0.00
Endosulfan I	5.10	5.10	5.00	5.20	0.00
Dieldrin	5.37	5.37	5.27	5.47	0.00
4,4'-DDE	5.24	5.24	5.14	5.34	0.00
Endrin	5.64	5.64	5.54	5.74	0.00
Endosulfan II	5.94	5.94	5.84	6.04	0.00
4,4'-DDD	5.79	5.79	5.69	5.89	0.00
Endosulfan sulfate	6.34	6.34	6.24	6.44	0.00
4,4'-DDT	6.04	6.04	5.94	6.14	0.00
Methoxychlor	6.62	6.62	6.52	6.72	0.00
Endrin ketone	6.85	6.84	6.74	6.94	0.00
Endrin aldehyde	6.12	6.12	6.02	6.22	0.00
alpha-Chlordane	5.05	5.05	4.95	5.15	0.00
gamma-Chlordane	4.98	4.98	4.88	5.08	0.00

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CALIBRATION VERIFICATION SUMMARY

Contract: UNIO02

Lab Code: CHEM **Case No.:** P4663 **SAS No.:** P4663 **SDG NO.:** P4663

GC Column: ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 10/28/2024 10/28/2024

Client Sample No.: CCAL01 **Date Analyzed:** 11/01/2024

Lab Sample No.: PSTDCCC050 **Data File :** PL092800.D **Time Analyzed:** 14:29

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
4,4'-DDD	6.713	6.610	6.810	51.260	50.000	2.5
4,4'-DDE	6.195	6.093	6.293	50.900	50.000	1.8
4,4'-DDT	7.027	6.923	7.123	49.960	50.000	-0.1
Aldrin	5.260	5.158	5.358	51.100	50.000	2.2
alpha-BHC	3.998	3.896	4.096	52.100	50.000	4.2
alpha-Chlordane	6.022	5.919	6.119	50.800	50.000	1.6
beta-BHC	4.528	4.425	4.625	51.310	50.000	2.6
Decachlorobiphenyl	9.059	8.954	9.154	49.300	50.000	-1.4
delta-BHC	4.775	4.672	4.872	52.010	50.000	4.0
Dieldrin	6.347	6.245	6.445	50.860	50.000	1.7
Endosulfan I	6.072	5.970	6.170	50.520	50.000	1.0
Endosulfan II	6.797	6.694	6.894	49.360	50.000	-1.3
Endosulfan sulfate	7.162	7.058	7.258	49.620	50.000	-0.8
Endrin	6.577	6.474	6.674	50.060	50.000	0.1
Endrin aldehyde	6.927	6.824	7.024	49.870	50.000	-0.3
Endrin ketone	7.646	7.543	7.743	49.670	50.000	-0.7
gamma-BHC (Lindane)	4.330	4.228	4.428	52.020	50.000	4.0
gamma-Chlordane	5.943	5.841	6.041	50.730	50.000	1.5
Heptachlor	4.919	4.817	5.017	51.570	50.000	3.1
Heptachlor epoxide	5.686	5.584	5.784	50.230	50.000	0.5
Methoxychlor	7.503	7.399	7.599	49.760	50.000	-0.5
Tetrachloro-m-xylene	3.542	3.440	3.640	51.490	50.000	3.0

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

CALIBRATION VERIFICATION SUMMARY

Contract: UNIO02

Lab Code: CHEM **Case No.:** P4663 **SAS No.:** P4663 **SDG NO.:** P4663

GC Column: ZB-MR1 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 10/28/2024 10/28/2024

Client Sample No.: CCAL01 **Date Analyzed:** 11/01/2024

Lab Sample No.: PSTDCCC050 **Data File :** PL092800.D **Time Analyzed:** 14:29

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
4,4'-DDD	5.791	5.689	5.889	55.140	50.000	10.3
4,4'-DDE	5.235	5.135	5.335	54.620	50.000	9.2
4,4'-DDT	6.041	5.940	6.140	54.870	50.000	9.7
Aldrin	4.230	4.129	4.329	54.930	50.000	9.9
alpha-BHC	3.281	3.181	3.381	54.590	50.000	9.2
alpha-Chlordane	5.046	4.945	5.145	54.530	50.000	9.1
beta-BHC	3.911	3.810	4.010	53.180	50.000	6.4
Decachlorobiphenyl	7.918	7.816	8.016	52.880	50.000	5.8
delta-BHC	4.140	4.039	4.239	54.930	50.000	9.9
Dieldrin	5.367	5.266	5.466	55.010	50.000	10.0
Endosulfan I	5.102	5.002	5.202	54.180	50.000	8.4
Endosulfan II	5.937	5.836	6.036	54.800	50.000	9.6
Endosulfan sulfate	6.340	6.238	6.438	54.130	50.000	8.3
Endrin	5.643	5.541	5.741	56.150	50.000	12.3
Endrin aldehyde	6.117	6.015	6.215	53.630	50.000	7.3
Endrin ketone	6.845	6.743	6.943	54.330	50.000	8.7
gamma-BHC (Lindane)	3.611	3.511	3.711	54.760	50.000	9.5
gamma-Chlordane	4.983	4.882	5.082	54.470	50.000	8.9
Heptachlor	3.950	3.849	4.049	54.850	50.000	9.7
Heptachlor epoxide	4.733	4.632	4.832	54.740	50.000	9.5
Methoxychlor	6.617	6.515	6.715	54.270	50.000	8.5
Tetrachloro-m-xylene	2.778	2.678	2.878	52.780	50.000	5.6

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CALIBRATION VERIFICATION SUMMARY

Contract: UNIO02

Lab Code: CHEM **Case No.:** P4663 **SAS No.:** P4663 **SDG NO.:** P4663

Continuing Calib Date: 11/01/2024 **Initial Calibration Date(s):** 10/28/2024 10/28/2024

Continuing Calib Time: 17:38 **Initial Calibration Time(s):** 14:43 15:36

GC Column: ZB-MR2 **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Decachlorobiphenyl	9.06	9.05	8.95	9.15	-0.01
Tetrachloro-m-xylene	3.54	3.54	3.44	3.64	0.00
alpha-BHC	4.00	4.00	3.90	4.10	0.00
beta-BHC	4.53	4.53	4.43	4.63	0.00
delta-BHC	4.78	4.77	4.67	4.87	-0.01
gamma-BHC (Lindane)	4.33	4.33	4.23	4.43	0.00
Heptachlor	4.92	4.92	4.82	5.02	0.00
Aldrin	5.26	5.26	5.16	5.36	0.00
Heptachlor epoxide	5.69	5.68	5.58	5.78	-0.01
Endosulfan I	6.07	6.07	5.97	6.17	0.00
Dieldrin	6.35	6.35	6.25	6.45	0.00
4,4'-DDE	6.20	6.19	6.09	6.29	-0.01
Endrin	6.58	6.57	6.47	6.67	-0.01
Endosulfan II	6.80	6.79	6.69	6.89	-0.01
4,4'-DDD	6.71	6.71	6.61	6.81	0.00
Endosulfan sulfate	7.16	7.16	7.06	7.26	0.00
4,4'-DDT	7.03	7.02	6.92	7.12	-0.01
Methoxychlor	7.50	7.50	7.40	7.60	0.00
Endrin ketone	7.65	7.64	7.54	7.74	-0.01
Endrin aldehyde	6.93	6.92	6.82	7.02	-0.01
alpha-Chlordane	6.02	6.02	5.92	6.12	0.00
gamma-Chlordane	5.94	5.94	5.84	6.04	0.00

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CALIBRATION VERIFICATION SUMMARY

Contract: UNIO02

Lab Code: CHEM **Case No.:** P4663 **SAS No.:** P4663 **SDG NO.:** P4663

Continuing Calib Date: 11/01/2024 **Initial Calibration Date(s):** 10/28/2024 10/28/2024

Continuing Calib Time: 17:38 **Initial Calibration Time(s):** 14:43 15:36

GC Column: ZB-MR1 **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Decachlorobiphenyl	7.92	7.92	7.82	8.02	0.00
Tetrachloro-m-xylene	2.78	2.78	2.68	2.88	0.00
alpha-BHC	3.28	3.28	3.18	3.38	0.00
beta-BHC	3.91	3.91	3.81	4.01	0.00
delta-BHC	4.14	4.14	4.04	4.24	0.00
gamma-BHC (Lindane)	3.61	3.61	3.51	3.71	0.00
Heptachlor	3.95	3.95	3.85	4.05	0.00
Aldrin	4.23	4.23	4.13	4.33	0.00
Heptachlor epoxide	4.73	4.73	4.63	4.83	0.00
Endosulfan I	5.10	5.10	5.00	5.20	0.00
Dieldrin	5.37	5.37	5.27	5.47	0.00
4,4'-DDE	5.24	5.24	5.14	5.34	0.00
Endrin	5.64	5.64	5.54	5.74	0.00
Endosulfan II	5.94	5.94	5.84	6.04	0.00
4,4'-DDD	5.79	5.79	5.69	5.89	0.00
Endosulfan sulfate	6.34	6.34	6.24	6.44	0.00
4,4'-DDT	6.04	6.04	5.94	6.14	0.00
Methoxychlor	6.62	6.62	6.52	6.72	0.00
Endrin ketone	6.85	6.84	6.74	6.94	0.00
Endrin aldehyde	6.12	6.12	6.02	6.22	0.00
alpha-Chlordane	5.05	5.05	4.95	5.15	0.00
gamma-Chlordane	4.98	4.98	4.88	5.08	0.00

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CALIBRATION VERIFICATION SUMMARY

Contract: UNIO02

Lab Code: CHEM **Case No.:** P4663 **SAS No.:** P4663 **SDG NO.:** P4663

GC Column: ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 10/28/2024 10/28/2024

Client Sample No.: CCAL02 **Date Analyzed:** 11/01/2024

Lab Sample No.: PSTDCCC050 **Data File :** PL092813.D **Time Analyzed:** 17:38

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
4,4'-DDD	6.714	6.610	6.810	51.110	50.000	2.2
4,4'-DDE	6.196	6.093	6.293	50.280	50.000	0.6
4,4'-DDT	7.027	6.923	7.123	47.950	50.000	-4.1
Aldrin	5.261	5.158	5.358	49.900	50.000	-0.2
alpha-BHC	3.998	3.896	4.096	52.050	50.000	4.1
alpha-Chlordane	6.023	5.919	6.119	49.350	50.000	-1.3
beta-BHC	4.528	4.425	4.625	51.060	50.000	2.1
Decachlorobiphenyl	9.059	8.954	9.154	48.010	50.000	-4.0
delta-BHC	4.776	4.672	4.872	51.620	50.000	3.2
Dieldrin	6.348	6.245	6.445	49.300	50.000	-1.4
Endosulfan I	6.073	5.970	6.170	49.270	50.000	-1.5
Endosulfan II	6.798	6.694	6.894	47.690	50.000	-4.6
Endosulfan sulfate	7.162	7.058	7.258	47.690	50.000	-4.6
Endrin	6.578	6.474	6.674	48.210	50.000	-3.6
Endrin aldehyde	6.928	6.824	7.024	48.300	50.000	-3.4
Endrin ketone	7.647	7.543	7.743	47.920	50.000	-4.2
gamma-BHC (Lindane)	4.331	4.228	4.428	51.720	50.000	3.4
gamma-Chlordane	5.943	5.841	6.041	49.530	50.000	-0.9
Heptachlor	4.919	4.817	5.017	50.590	50.000	1.2
Heptachlor epoxide	5.688	5.584	5.784	49.630	50.000	-0.7
Methoxychlor	7.503	7.399	7.599	48.250	50.000	-3.5
Tetrachloro-m-xylene	3.542	3.440	3.640	51.120	50.000	2.2

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CALIBRATION VERIFICATION SUMMARY

Contract: UNIO02

Lab Code: CHEM **Case No.:** P4663 **SAS No.:** P4663 **SDG NO.:** P4663

GC Column: ZB-MR1 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 10/28/2024 10/28/2024

Client Sample No.: CCAL02 **Date Analyzed:** 11/01/2024

Lab Sample No.: PSTDCCC050 **Data File :** PL092813.D **Time Analyzed:** 17:38

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
4,4'-DDD	5.791	5.689	5.889	55.120	50.000	10.2
4,4'-DDE	5.236	5.135	5.335	53.920	50.000	7.8
4,4'-DDT	6.041	5.940	6.140	51.960	50.000	3.9
Aldrin	4.230	4.129	4.329	55.260	50.000	10.5
alpha-BHC	3.281	3.181	3.381	55.240	50.000	10.5
alpha-Chlordane	5.047	4.945	5.145	53.720	50.000	7.4
beta-BHC	3.911	3.810	4.010	53.710	50.000	7.4
Decachlorobiphenyl	7.918	7.816	8.016	48.450	50.000	-3.1
delta-BHC	4.140	4.039	4.239	55.360	50.000	10.7
Dieldrin	5.367	5.266	5.466	53.510	50.000	7.0
Endosulfan I	5.103	5.002	5.202	53.110	50.000	6.2
Endosulfan II	5.938	5.836	6.036	53.360	50.000	6.7
Endosulfan sulfate	6.340	6.238	6.438	51.790	50.000	3.6
Endrin	5.643	5.541	5.741	54.350	50.000	8.7
Endrin aldehyde	6.117	6.015	6.215	51.480	50.000	3.0
Endrin ketone	6.845	6.743	6.943	51.740	50.000	3.5
gamma-BHC (Lindane)	3.611	3.511	3.711	55.260	50.000	10.5
gamma-Chlordane	4.983	4.882	5.082	54.020	50.000	8.0
Heptachlor	3.950	3.849	4.049	54.920	50.000	9.8
Heptachlor epoxide	4.733	4.632	4.832	54.550	50.000	9.1
Methoxychlor	6.617	6.515	6.715	50.610	50.000	1.2
Tetrachloro-m-xylene	2.778	2.678	2.878	53.690	50.000	7.4

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PESTICIDE CALIBRATION VERIFICATION SUMMARY

Contract: UNIO02

Lab Code: CHEM **Case No.:** P4663 **SAS No.:** P4663 **SDG NO.:** P4663

GC Column: ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 10/28/2024 10/28/2024

Client Sample No. (PEM): PEM - PL092653.D **Date Analyzed:** 10/28/2024

Lab Sample No.(PEM): PEM **Time Analyzed:** 14:16

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	9.059	8.960	9.160	19.970	20.000	-0.2
Tetrachloro-m-xylene	3.546	3.500	3.600	19.290	20.000	-3.6
alpha-BHC	4.001	3.950	4.050	9.920	10.000	-0.8
beta-BHC	4.531	4.480	4.580	10.060	10.000	0.6
gamma-BHC (Lindane)	4.334	4.280	4.380	9.660	10.000	-3.4
Endrin	6.580	6.510	6.650	41.060	50.000	-17.9
4,4'-DDT	7.030	6.960	7.100	88.060	100.000	-11.9
Methoxychlor	7.505	7.430	7.580	204.090	250.000	-18.4

GC Column: ZB-MR1 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 10/28/2024 10/28/2024

Client Sample No. (PEM): PEM - PL092653.D **Date Analyzed:** 10/28/2024

Lab Sample No.(PEM): PEM **Time Analyzed:** 14:16

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	7.918	7.820	8.020	19.080	20.000	-4.6
Tetrachloro-m-xylene	2.778	2.730	2.830	18.500	20.000	-7.5
alpha-BHC	3.281	3.230	3.330	8.630	10.000	-13.7
beta-BHC	3.911	3.860	3.960	9.760	10.000	-2.4
gamma-BHC (Lindane)	3.611	3.560	3.660	8.390	10.000	-16.1
Endrin	5.643	5.570	5.710	44.130	50.000	-11.7
4,4'-DDT	6.042	5.970	6.110	98.070	100.000	-1.9
Methoxychlor	6.616	6.550	6.690	225.800	250.000	-9.7

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PESTICIDE CALIBRATION VERIFICATION SUMMARY

Contract: UNIO02

Lab Code: CHEM **Case No.:** P4663 **SAS No.:** P4663 **SDG NO.:** P4663

GC Column: ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 10/28/2024 10/28/2024

Client Sample No. (PEM): PEM - PL092788.D **Date Analyzed:** 11/01/2024

Lab Sample No.(PEM): PEM **Time Analyzed:** 11:43

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	9.057	8.960	9.160	20.940	20.000	4.7
Tetrachloro-m-xylene	3.541	3.490	3.590	21.750	20.000	8.8
alpha-BHC	3.997	3.950	4.050	11.350	10.000	13.5
beta-BHC	4.527	4.480	4.580	11.540	10.000	15.4
gamma-BHC (Lindane)	4.330	4.280	4.380	11.170	10.000	11.7
Endrin	6.577	6.510	6.650	46.250	50.000	-7.5
4,4'-DDT	7.026	6.960	7.100	94.880	100.000	-5.1
Methoxychlor	7.503	7.430	7.570	217.230	250.000	-13.1

GC Column: ZB-MR1 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 10/28/2024 10/28/2024

Client Sample No. (PEM): PEM - PL092788.D **Date Analyzed:** 11/01/2024

Lab Sample No.(PEM): PEM **Time Analyzed:** 11:43

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	7.919	7.820	8.020	21.510	20.000	7.6
Tetrachloro-m-xylene	2.779	2.730	2.830	20.950	20.000	4.8
alpha-BHC	3.281	3.230	3.330	10.060	10.000	0.6
beta-BHC	3.911	3.860	3.960	11.200	10.000	12.0
gamma-BHC (Lindane)	3.612	3.560	3.660	9.800	10.000	-2.0
Endrin	5.643	5.570	5.710	52.500	50.000	5.0
4,4'-DDT	6.042	5.970	6.110	113.340	100.000	13.3
Methoxychlor	6.617	6.550	6.690	254.450	250.000	1.8

Alliance TECHNICAL GROUP
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Analytical Sequence

Client: Union Paving & Construction Company **SDG No.:** P4663

Project: Rt. 10 Whippany **Instrument ID:** ECD_L

GC Column: ZB-MR2 **ID:** 0.32 (mm) **Inst. Calib. Date(s):** 10/28/2024 10/28/2024

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	10/28/2024	13:55	PL092652.D	9.05	3.54
PEM	PEM	10/28/2024	14:16	PL092653.D	9.06	3.55
RESCHK	RESCHK	10/28/2024	14:29	PL092654.D	9.05	3.54
PSTDICC100	PSTDICC100	10/28/2024	14:43	PL092655.D	9.05	3.54
PSTDICC075	PSTDICC075	10/28/2024	14:56	PL092656.D	9.05	3.54
PSTDICC050	PSTDICC050	10/28/2024	15:09	PL092657.D	9.05	3.54
PSTDICC025	PSTDICC025	10/28/2024	15:23	PL092658.D	9.05	3.54
PSTDICC005	PSTDICC005	10/28/2024	15:36	PL092659.D	9.05	3.54
PCHLORICC500	PCHLORICC500	10/28/2024	16:16	PL092662.D	9.06	3.54
PTOXICC500	PTOXICC500	10/28/2024	17:23	PL092667.D	9.05	3.54
PEM	PEM	11/01/2024	11:43	PL092788.D	9.06	3.54
I.BLK	I.BLK	11/01/2024	14:15	PL092799.D	9.06	3.54
PSTDCCC050	PSTDCCC050	11/01/2024	14:29	PL092800.D	9.06	3.54
PB164592BL	PB164592BL	11/01/2024	14:47	PL092801.D	9.06	3.55
PB164592BS	PB164592BS	11/01/2024	15:01	PL092802.D	9.06	3.54
TENNANT-PAD-2-3-STOCKPILE	P4663-02	11/01/2024	15:56	PL092806.D	9.06	3.54
RES-BUILDING-PAD-NO-11	P4663-04	11/01/2024	16:10	PL092807.D	9.06	3.54
RES-BUILDING-PAD-NO-3	P4663-06	11/01/2024	16:24	PL092808.D	9.06	3.54
RES-BUILDING-PAD-NO-2	P4663-08	11/01/2024	16:38	PL092809.D	9.06	3.54
RES-BUILDING-PAD-NO-2MS	P4663-08MS	11/01/2024	16:52	PL092810.D	9.06	3.54
RES-BUILDING-PAD-NO-2MSD	P4663-08MSD	11/01/2024	17:06	PL092811.D	9.06	3.54
I.BLK	I.BLK	11/01/2024	17:24	PL092812.D	9.06	3.55
PSTDCCC050	PSTDCCC050	11/01/2024	17:38	PL092813.D	9.06	3.54

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Analytical Sequence

Client: Union Paving & Construction Company **SDG No.:** P4663

Project: Rt. 10 Whippany **Instrument ID:** ECD_L

GC Column: ZB-MR1 **ID:** 0.32 (mm) **Inst. Calib. Date(s):** 10/28/2024 10/28/2024

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	10/28/2024	13:55	PL092652.D	7.92	2.78
PEM	PEM	10/28/2024	14:16	PL092653.D	7.92	2.78
RESCHK	RESCHK	10/28/2024	14:29	PL092654.D	7.92	2.78
PSTDICC100	PSTDICC100	10/28/2024	14:43	PL092655.D	7.92	2.78
PSTDICC075	PSTDICC075	10/28/2024	14:56	PL092656.D	7.92	2.78
PSTDICC050	PSTDICC050	10/28/2024	15:09	PL092657.D	7.92	2.78
PSTDICC025	PSTDICC025	10/28/2024	15:23	PL092658.D	7.92	2.78
PSTDICC005	PSTDICC005	10/28/2024	15:36	PL092659.D	7.92	2.78
PCHLORICC500	PCHLORICC500	10/28/2024	16:16	PL092662.D	7.92	2.78
PTOXICC500	PTOXICC500	10/28/2024	17:23	PL092667.D	7.92	2.78
PEM	PEM	11/01/2024	11:43	PL092788.D	7.92	2.78
I.BLK	I.BLK	11/01/2024	14:15	PL092799.D	7.92	2.78
PSTDCCC050	PSTDCCC050	11/01/2024	14:29	PL092800.D	7.92	2.78
PB164592BL	PB164592BL	11/01/2024	14:47	PL092801.D	7.92	2.78
PB164592BS	PB164592BS	11/01/2024	15:01	PL092802.D	7.92	2.78
TENNANT-PAD-2-3-STOCKPILE	P4663-02	11/01/2024	15:56	PL092806.D	7.92	2.78
RES-BUILDING-PAD-NO-11	P4663-04	11/01/2024	16:10	PL092807.D	7.92	2.78
RES-BUILDING-PAD-NO-3	P4663-06	11/01/2024	16:24	PL092808.D	7.92	2.78
RES-BUILDING-PAD-NO-2	P4663-08	11/01/2024	16:38	PL092809.D	7.93	2.80
RES-BUILDING-PAD-NO-2MS	P4663-08MS	11/01/2024	16:52	PL092810.D	7.92	2.78
RES-BUILDING-PAD-NO-2MSD	P4663-08MSD	11/01/2024	17:06	PL092811.D	7.92	2.78
I.BLK	I.BLK	11/01/2024	17:24	PL092812.D	7.92	2.78
PSTDCCC050	PSTDCCC050	11/01/2024	17:38	PL092813.D	7.92	2.78

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Fax : 908 789 8922

COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.
PB164592BS

Contract: UNIO02

Lab Code: CHEM **Case No.:** P4663 **SAS No.:** P4663 **SDG NO.:** P4663

Lab Sample ID: PB164592BS **Date(s) Analyzed:** 11/01/2024 11/01/2024

Instrument ID (1): ECD_L **Instrument ID (2):** ECD_L

GC Column: (1): ZB-MR2 **ID:** 0.32 (mm) **GC Column:(2):** ZB-MR1 **ID:** 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%RPD
4,4'-DDD	1	6.71	6.66	6.76	17.6	7.7
	2	5.79	5.74	5.84	19.0	
4,4'-DDE	1	6.20	6.15	6.25	17.5	7.2
	2	5.24	5.19	5.29	18.8	
4,4'-DDT	1	7.03	6.98	7.08	18.1	6.4
	2	6.04	5.99	6.09	19.3	
Aldrin	1	5.26	5.21	5.31	16.7	6.4
	2	4.23	4.18	4.28	17.8	
alpha-BHC	1	4.00	3.95	4.05	16.9	4.6
	2	3.28	3.23	3.33	17.7	
alpha-Chlordane	1	6.02	5.97	6.07	17.6	6.1
	2	5.05	5.00	5.10	18.7	
beta-BHC	1	4.53	4.48	4.58	17.2	4.5
	2	3.91	3.86	3.96	18.0	
delta-BHC	1	4.78	4.73	4.83	15.1	3.3
	2	4.14	4.09	4.19	15.6	
Dieldrin	1	6.35	6.30	6.40	17.5	7.7
	2	5.37	5.32	5.42	18.9	
Endosulfan I	1	6.07	6.02	6.12	17.4	7.2
	2	5.10	5.05	5.15	18.7	
Endosulfan II	1	6.80	6.75	6.85	17.3	10.4
	2	5.94	5.89	5.99	19.2	
Endosulfan sulfate	1	7.16	7.11	7.21	17.0	9
	2	6.34	6.29	6.39	18.6	
Endrin	1	6.58	6.53	6.63	17.2	14.1
	2	5.64	5.59	5.69	19.8	
Endrin aldehyde	1	6.93	6.88	6.98	16.9	6.9
	2	6.12	6.07	6.17	18.1	

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COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.
PB164592BS

Contract: UNIO02

Lab Code: CHEM **Case No.:** P4663 **SAS No.:** P4663 **SDG NO.:** P4663

Lab Sample ID: PB164592BS **Date(s) Analyzed:** 11/01/2024 11/01/2024

Instrument ID (1): ECD_L **Instrument ID (2):** ECD_L

GC Column: (1): ZB-MR2 **ID:** 0.32 (mm) **GC Column:(2):** ZB-MR1 **ID:** 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%RPD
Endrin ketone	1	7.65	7.60	7.70	17.2	8.4
	2	6.85	6.80	6.90	18.7	
gamma-BHC (Lindane)	1	4.33	4.28	4.38	16.7	5.2
	2	3.61	3.56	3.66	17.6	
gamma-Chlordane	1	5.94	5.89	5.99	17.8	6
	2	4.98	4.93	5.03	18.9	
Heptachlor	1	4.92	4.87	4.97	17.7	5.5
	2	3.95	3.90	4.00	18.7	
Heptachlor epoxide	1	5.69	5.64	5.74	17.0	7.9
	2	4.73	4.68	4.78	18.4	
Methoxychlor	1	7.50	7.45	7.55	17.2	8.4
	2	6.62	6.57	6.67	18.7	

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COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

RES-BUILDING-PAD-NO-11

Contract: UNIO02

Lab Code: CHEM **Case No.:** P4663 **SAS No.:** P4663 **SDG NO.:** P4663

Lab Sample ID: P4663-04 **Date(s) Analyzed:** 11/01/2024 11/01/2024

Instrument ID (1): ECD_L **Instrument ID (2):** ECD_L

GC Column: (1): ZB-MR2 **ID:** 0.32 (mm) **GC Column:(2):** ZB-MR1 **ID:** 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%RPD
4,4'-DDE	1	6.19	6.14	6.24	0.22	17.8
	2	5.23	5.18	5.28	0.18	

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COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.
RES-BUILDING-PAD-NO-2MS

Contract: UNIO02

Lab Code: CHEM **Case No.:** P4663 **SAS No.:** P4663 **SDG NO.:** P4663

Lab Sample ID: P4663-08MS **Date(s) Analyzed:** 11/01/2024 11/01/2024

Instrument ID (1): ECD_L **Instrument ID (2):** ECD_L

GC Column: (1): ZB-MR2 **ID:** 0.32 (mm) **GC Column:(2):** ZB-MR1 **ID:** 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%RPD
4,4'-DDD	1	6.71	6.66	6.76	16.3	0.6
	2	5.79	5.74	5.84	16.4	
4,4'-DDE	1	6.20	6.15	6.25	16.3	10.5
	2	5.24	5.19	5.29	18.1	
4,4'-DDT	1	7.03	6.98	7.08	16.0	4.3
	2	6.04	5.99	6.09	16.7	
Aldrin	1	5.26	5.21	5.31	15.8	8.5
	2	4.23	4.18	4.28	17.2	
alpha-BHC	1	4.00	3.95	4.05	14.8	4.6
	2	3.28	3.23	3.33	15.5	
alpha-Chlordane	1	6.02	5.97	6.07	16.3	7.7
	2	5.05	5.00	5.10	17.6	
beta-BHC	1	4.53	4.48	4.58	16.8	5.2
	2	3.91	3.86	3.96	17.7	
delta-BHC	1	4.77	4.72	4.82	4.60	9.1
	2	4.14	4.09	4.19	4.20	
Dieldrin	1	6.35	6.30	6.40	15.9	9.6
	2	5.37	5.32	5.42	17.5	
Endosulfan I	1	6.07	6.02	6.12	16.0	9
	2	5.10	5.05	5.15	17.5	
Endosulfan II	1	6.80	6.75	6.85	15.6	7.4
	2	5.94	5.89	5.99	16.8	
Endosulfan sulfate	1	7.16	7.11	7.21	13.0	3
	2	6.34	6.29	6.39	13.4	
Endrin	1	6.58	6.53	6.63	15.7	12.5
	2	5.64	5.59	5.69	17.8	
Endrin aldehyde	1	6.93	6.88	6.98	15.5	2.5
	2	6.12	6.07	6.17	15.9	

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COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.
RES-BUILDING-PAD-NO-2MS

Contract: UNIO02

Lab Code: CHEM **Case No.:** P4663 **SAS No.:** P4663 **SDG NO.:** P4663

Lab Sample ID: P4663-08MS **Date(s) Analyzed:** 11/01/2024 11/01/2024

Instrument ID (1): ECD_L **Instrument ID (2):** ECD_L

GC Column: (1): ZB-MR2 **ID:** 0.32 (mm) **GC Column:(2):** ZB-MR1 **ID:** 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%RPD
Endrin ketone	1	7.65	7.60	7.70	15.4	2.6
	2	6.85	6.80	6.90	15.8	
gamma-BHC (Lindane)	1	4.33	4.28	4.38	14.9	5.2
	2	3.61	3.56	3.66	15.7	
gamma-Chlordane	1	5.94	5.89	5.99	16.6	7
	2	4.98	4.93	5.03	17.8	
Heptachlor	1	4.92	4.87	4.97	16.5	8.1
	2	3.95	3.90	4.00	17.9	
Heptachlor epoxide	1	5.69	5.64	5.74	15.8	7.3
	2	4.73	4.68	4.78	17.0	
Methoxychlor	1	7.50	7.45	7.55	15.9	4.3
	2	6.62	6.57	6.67	16.6	

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COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.
RES-BUILDING-PAD-NO-2MSD

Contract: UNIO02

Lab Code: CHEM **Case No.:** P4663 **SAS No.:** P4663 **SDG NO.:** P4663

Lab Sample ID: P4663-08MSD **Date(s) Analyzed:** 11/01/2024 11/01/2024

Instrument ID (1): ECD_L **Instrument ID (2):** ECD_L

GC Column: (1): ZB-MR2 **ID:** 0.32 (mm) **GC Column:(2):** ZB-MR1 **ID:** 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%RPD
Endosulfan II	1	6.80	6.75	6.85	15.9	8.4
	2	5.94	5.89	5.99	17.3	
Endosulfan sulfate	1	7.16	7.11	7.21	13.2	3.7
	2	6.34	6.29	6.39	13.7	
Endrin	1	6.58	6.53	6.63	15.8	14.7
	2	5.64	5.59	5.69	18.3	
Endrin aldehyde	1	6.93	6.88	6.98	15.5	2.5
	2	6.12	6.07	6.17	15.9	
Endrin ketone	1	7.65	7.60	7.70	15.8	0.6
	2	6.85	6.80	6.90	15.9	
gamma-BHC (Lindane)	1	4.33	4.28	4.38	15.0	5.2
	2	3.61	3.56	3.66	15.8	
gamma-Chlordane	1	5.94	5.89	5.99	16.4	8.7
	2	4.98	4.93	5.03	17.9	
Heptachlor	1	4.92	4.87	4.97	16.7	6.9
	2	3.95	3.90	4.00	17.9	
Heptachlor epoxide	1	5.69	5.64	5.74	16.0	8.4
	2	4.73	4.68	4.78	17.4	
Methoxychlor	1	7.50	7.45	7.55	16.1	6.6
	2	6.62	6.57	6.67	17.2	
4,4'-DDD	1	6.71	6.66	6.76	16.7	4.1
	2	5.79	5.74	5.84	17.4	
4,4'-DDE	1	6.20	6.15	6.25	16.9	6.3
	2	5.24	5.19	5.29	18.0	
4,4'-DDT	1	7.03	6.98	7.08	15.9	5.5
	2	6.04	5.99	6.09	16.8	
Aldrin	1	5.26	5.21	5.31	15.7	8
	2	4.23	4.18	4.28	17.0	

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COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.
RES-BUILDING-PAD-NO-2MSD

Contract: UNIO02

Lab Code: CHEM **Case No.:** P4663 **SAS No.:** P4663 **SDG NO.:** P4663

Lab Sample ID: P4663-08MSD **Date(s) Analyzed:** 11/01/2024 11/01/2024

Instrument ID (1): ECD_L **Instrument ID (2):** ECD_L

GC Column: (1): ZB-MR2 **ID:** 0.32 (mm) **GC Column:(2):** ZB-MR1 **ID:** 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%RPD
alpha-BHC	1	4.00	3.95	4.05	14.9	3.9
	2	3.28	3.23	3.33	15.5	
alpha-Chlordane	1	6.02	5.97	6.07	16.3	8.2
	2	5.05	5.00	5.10	17.7	
beta-BHC	1	4.53	4.48	4.58	16.9	5.2
	2	3.91	3.86	3.96	17.8	
delta-BHC	1	4.78	4.73	4.83	4.60	9.1
	2	4.14	4.09	4.19	4.20	
Dieldrin	1	6.35	6.30	6.40	16.1	8.3
	2	5.37	5.32	5.42	17.5	
Endosulfan I	1	6.07	6.02	6.12	16.1	8.3
	2	5.10	5.05	5.15	17.5	

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COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

TENNANT-PAD-2-3-STOCKPIL

Contract: UNIO02

Lab Code: CHEM **Case No.:** P4663 **SAS No.:** P4663 **SDG NO.:** P4663

Lab Sample ID: P4663-02 **Date(s) Analyzed:** 11/01/2024 11/01/2024

Instrument ID (1): ECD_L **Instrument ID (2):** ECD_L

GC Column: (1): ZB-MR2 **ID:** 0.32 (mm) **GC Column:(2):** ZB-MR1 **ID:** 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%RPD
alpha-Chlordane	1	6.02	5.97	6.07	0.48	70.8
	2	5.04	4.99	5.09	0.23	

SAMPLE RAW DATA

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL110124\
Data File : PL092806.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 Nov 2024 15:56
Operator : AR\AJ
Sample : P4663-02
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
ECD_L
ClientSampleId :
TENNANT-PAD-2-3-STOCKPILE

Manual Integrations APPROVED
Reviewed By :Abdul Mirza 11/04/2024
Supervised By :Ankita Jodhani 11/04/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 04 01:43:38 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL102824.M
Quant Title : GC Extractables
QLast Update : Mon Oct 28 18:58:23 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR2 Signal #2 Phase: ZB-MR1
Signal #1 Info : 30M x 0.32mm x0.2 Signal #2 Info : 30M x 0.32mm x0.5µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
1)	SA Tetrachlo...	3.542	2.778	36385751	39432089	14.850	14.491
28)	SA Decachlor...	9.058	7.918	26668283	31801479	13.857	11.652
	Target Compounds						
11)	B alpha-Chl...	6.024	5.044	3491556	2104645	1.318	0.633m#
17)	MA 4,4'-DDT	7.024	6.036	985580	1492693	0.476m	0.557m

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

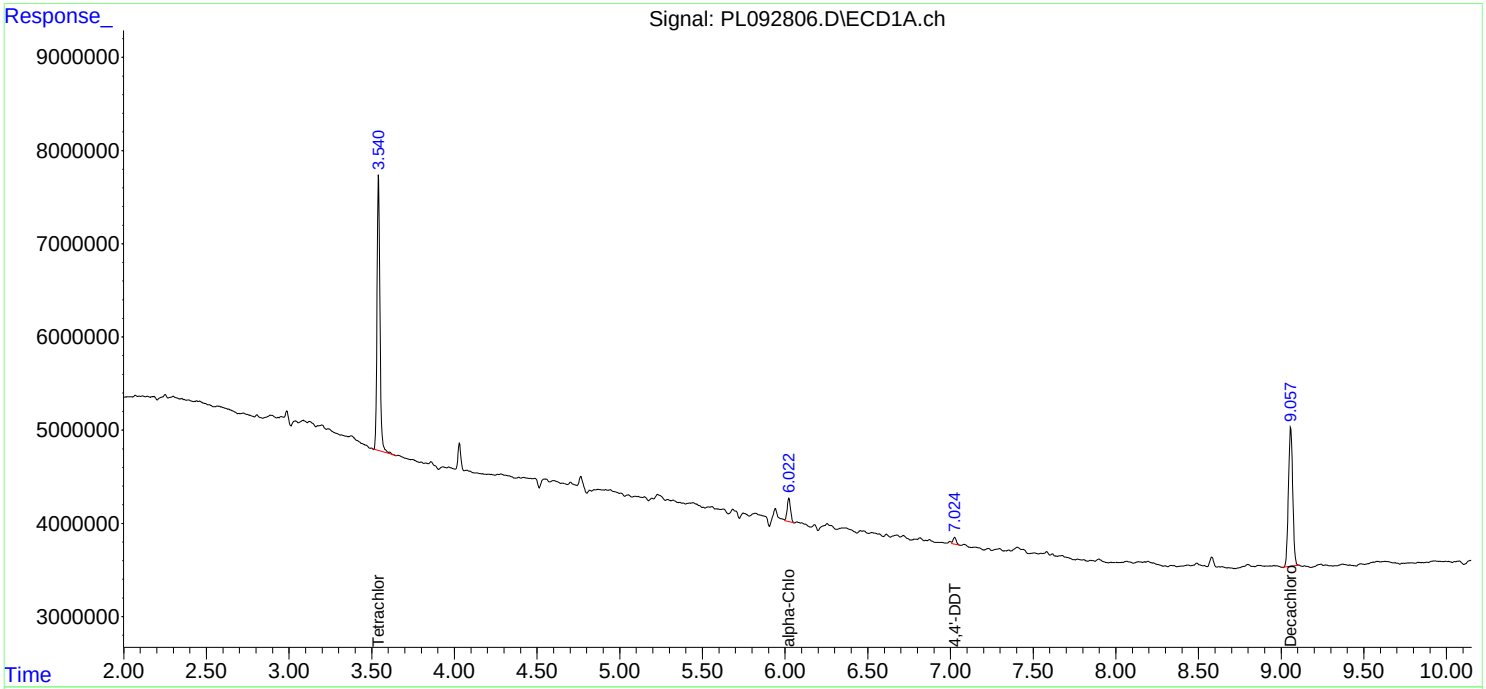
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL110124\
Data File : PL092806.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 Nov 2024 15:56
Operator : AR\AJ
Sample : P4663-02
Misc :
ALS Vial : 19 Sample Multiplier: 1

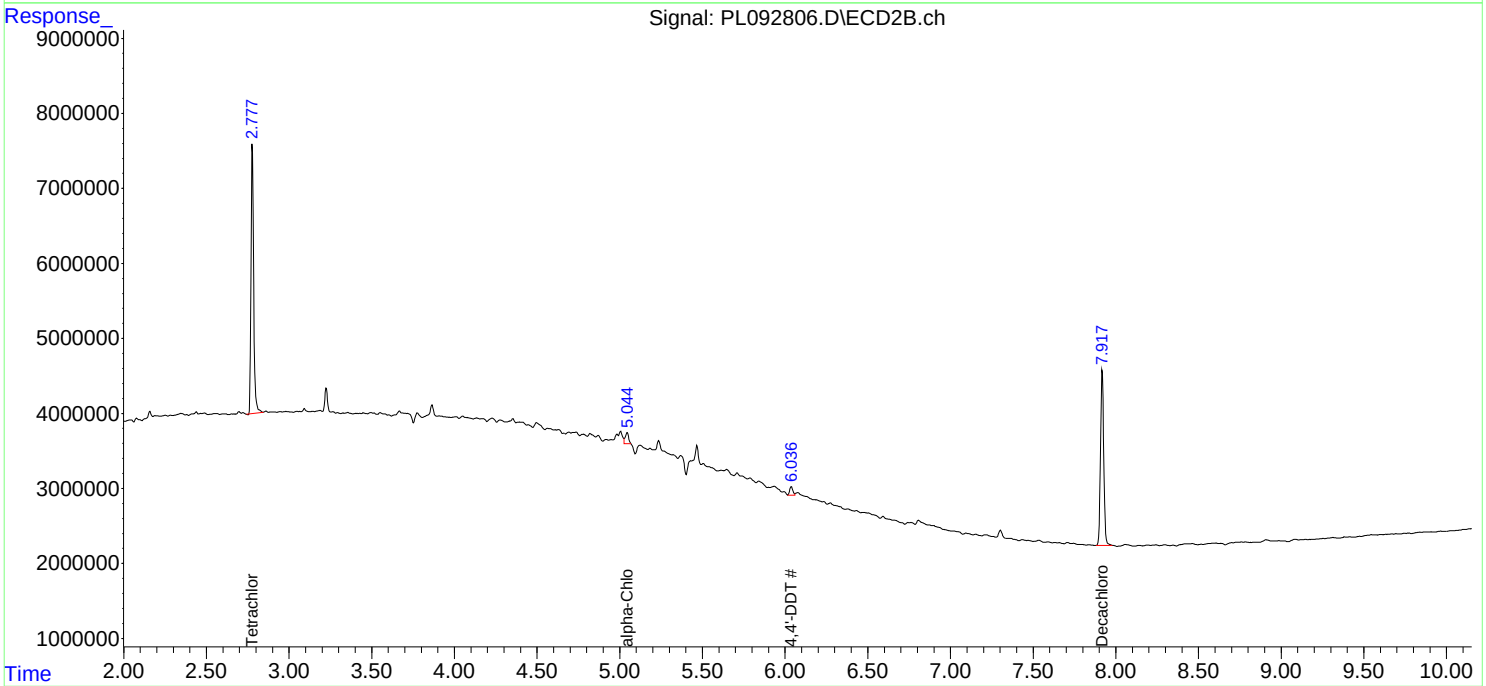
Instrument :
ECD_L
ClientSampleId :
TENNANT-PAD-2-3-STOCKPILE

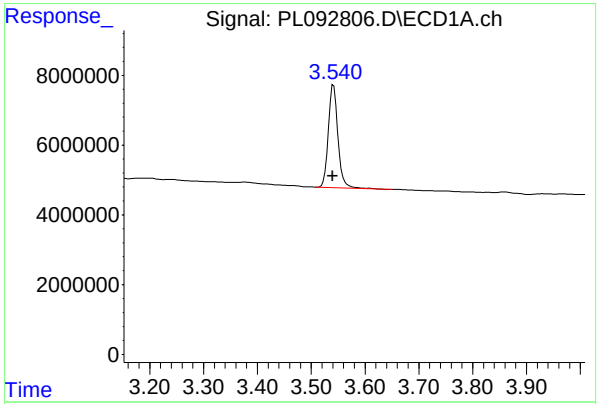
Manual Integrations APPROVED
Reviewed By :Abdul Mirza 11/04/2024
Supervised By :Ankita Jodhani 11/04/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 04 01:43:38 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL102824.M
Quant Title : GC Extractables
QLast Update : Mon Oct 28 18:58:23 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR2 Signal #2 Phase: ZB-MR1
Signal #1 Info : 30M x 0.32mm x0.2 Signal #2 Info : 30M x 0.32mm x0.5µm







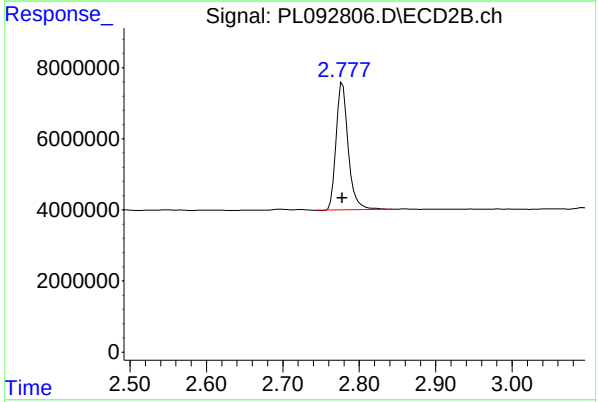
#1 Tetrachloro-m-xylene

R.T.: 3.542 min
Delta R.T.: 0.002 min
Response: 36385751
Conc: 14.85 ng/ml

Instrument :
ECD_L
ClientSampleId :
TENNANT-PAD-2-3-STOCKPILE

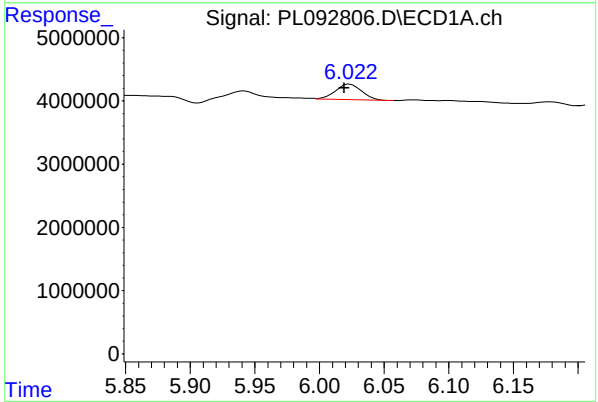
Manual Integrations APPROVED

Reviewed By :Abdul Mirza 11/04/2024
Supervised By :Ankita Jodhani 11/04/2024



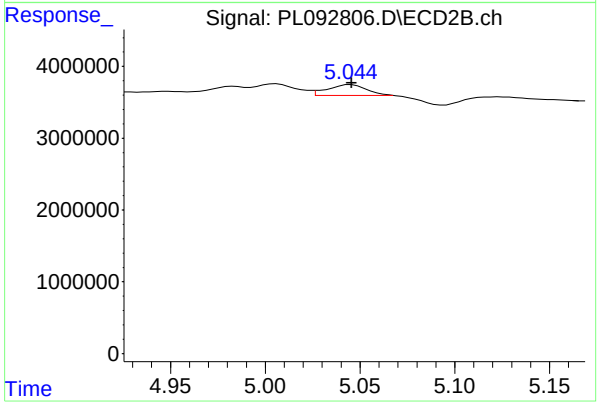
#1 Tetrachloro-m-xylene

R.T.: 2.778 min
Delta R.T.: 0.000 min
Response: 39432089
Conc: 14.49 ng/ml



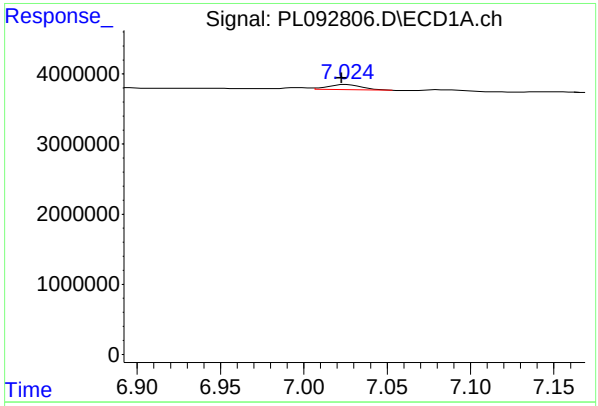
#11 alpha-Chlordane

R.T.: 6.024 min
Delta R.T.: 0.004 min
Response: 3491556
Conc: 1.32 ng/ml



#11 alpha-Chlordane

R.T.: 5.044 min
Delta R.T.: -0.002 min
Response: 2104645
Conc: 0.63 ng/ml m



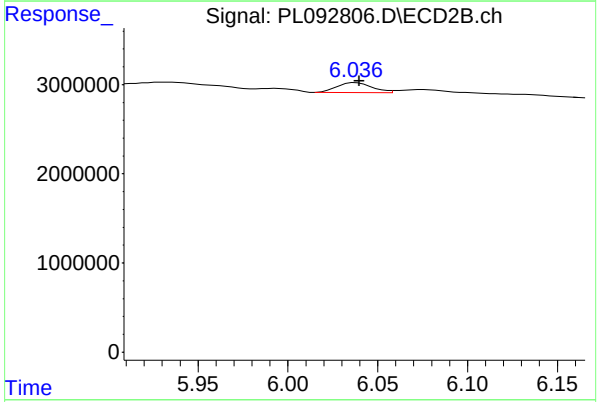
#17 4,4'-DDT

R.T.: 7.024 min
Delta R.T.: 0.002 mi
Response: 985580
Conc: 0.48 ng/m

Instrument :
ECD_L
ClientSampleId :
TENNANT-PAD-2-3-STOCKPILE

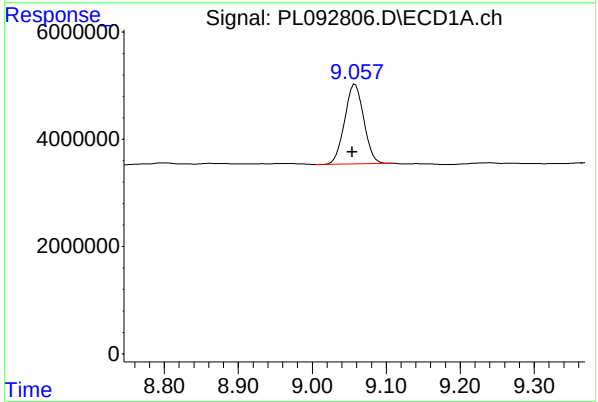
Manual Integrations APPROVED

Reviewed By :Abdul Mirza 11/04/2024
Supervised By :Ankita Jodhani 11/04/2024



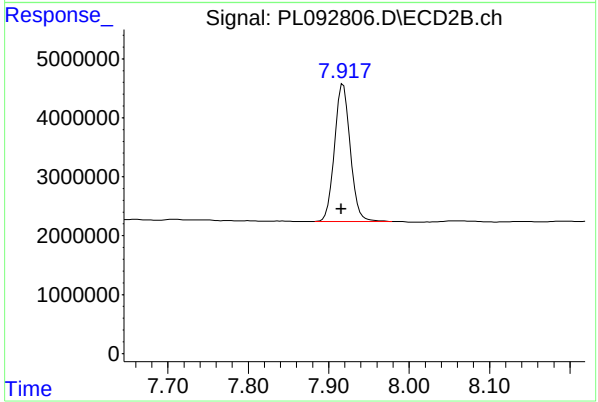
#17 4,4'-DDT

R.T.: 6.036 min
Delta R.T.: -0.004 min
Response: 1492693
Conc: 0.56 ng/ml m



#28 Decachlorobiphenyl

R.T.: 9.058 min
Delta R.T.: 0.004 min
Response: 26668283
Conc: 13.86 ng/ml



#28 Decachlorobiphenyl

R.T.: 7.918 min
Delta R.T.: 0.002 min
Response: 31801479
Conc: 11.65 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL110124\
Data File : PL092807.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 Nov 2024 16:10
Operator : AR\AJ
Sample : P4663-04
Misc :
ALS Vial : 20 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 04 01:44:01 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL102824.M
Quant Title : GC Extractables
QLast Update : Mon Oct 28 18:58:23 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR2 Signal #2 Phase: ZB-MR1
Signal #1 Info : 30M x 0.32mm x0.2 Signal #2 Info : 30M x 0.32mm x0.5µm

Instrument :
ECD_L
ClientSampleId :
RES-BUILDING-PAD-NO-11

Manual Integrations APPROVED

Reviewed By :Abdul Mirza 11/04/2024
Supervised By :Ankita Jodhani 11/04/2024

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
1)	SA Tetrachlo...	3.541	2.778	35005478	35930823	14.287	13.204
28)	SA Decachlor...	9.056	7.918	24606013	31940307	12.785m	11.703
	Target Compounds						
12)	B 4,4'-DDE	6.191	5.233	1443343	1644831	0.609m	0.511m

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

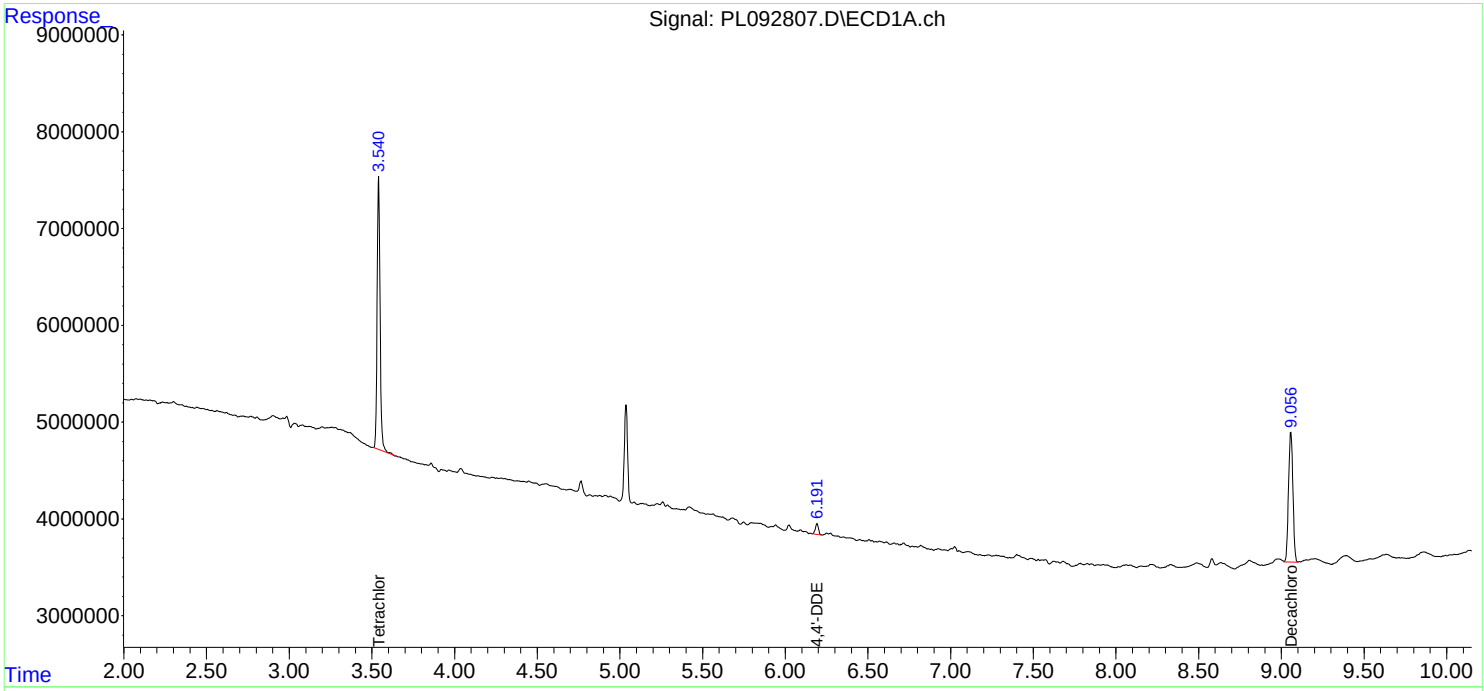
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL110124\
Data File : PL092807.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 Nov 2024 16:10
Operator : AR\AJ
Sample : P4663-04
Misc :
ALS Vial : 20 Sample Multiplier: 1

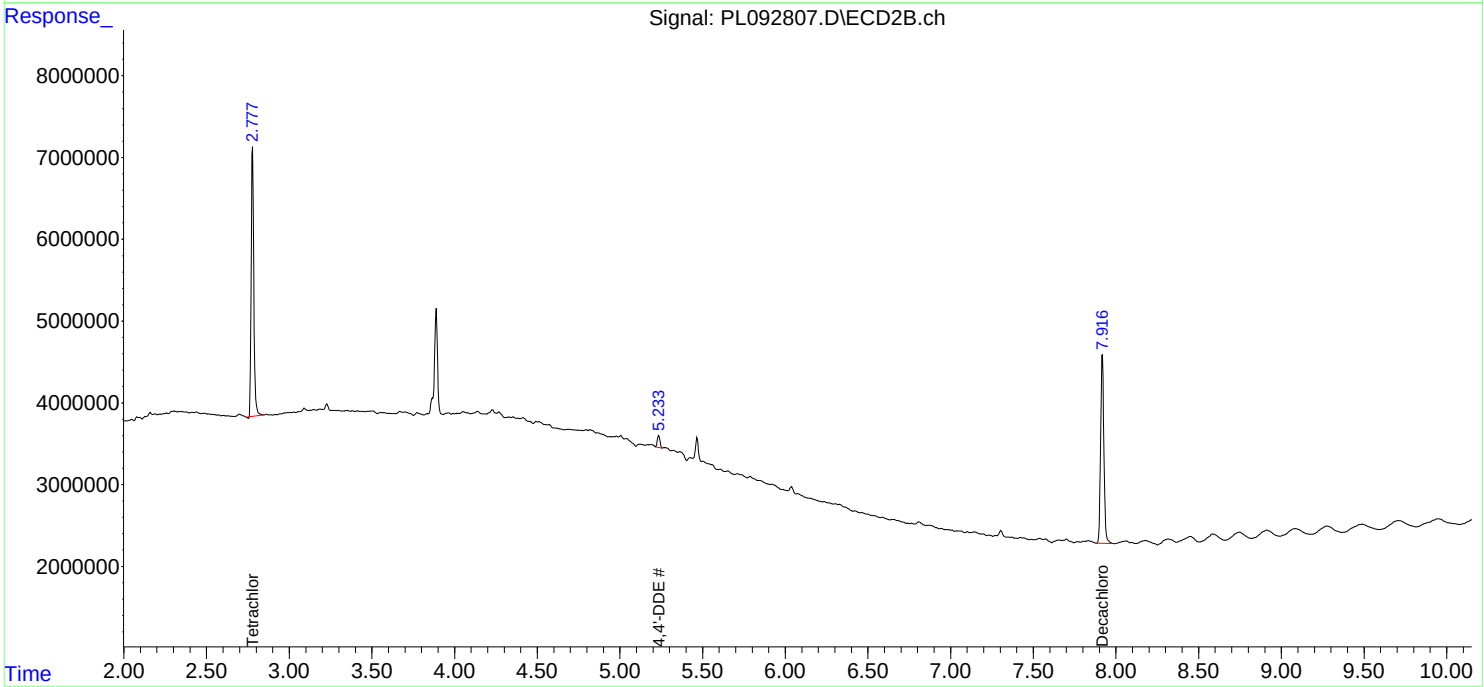
Instrument :
ECD_L
ClientSampleId :
RES-BUILDING-PAD-NO-11

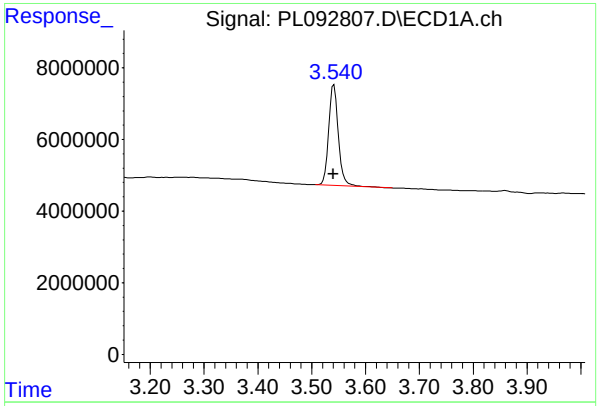
Manual Integrations APPROVED
Reviewed By :Abdul Mirza 11/04/2024
Supervised By :Ankita Jodhani 11/04/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 04 01:44:01 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL102824.M
Quant Title : GC Extractables
QLast Update : Mon Oct 28 18:58:23 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR2 Signal #2 Phase: ZB-MR1
Signal #1 Info : 30M x 0.32mm x0.2 Signal #2 Info : 30M x 0.32mm x0.5µm







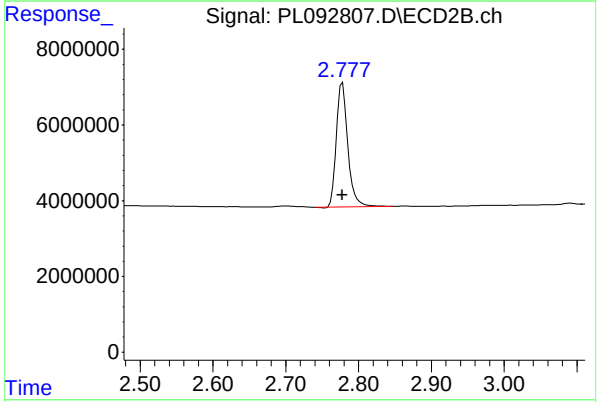
#1 Tetrachloro-m-xylene

R.T.: 3.541 min
Delta R.T.: 0.001 mi
Response: 35005478
Conc: 14.29 ng/m

Instrument :
ECD_L
ClientSampleId :
RES-BUILDING-PAD-NO-11

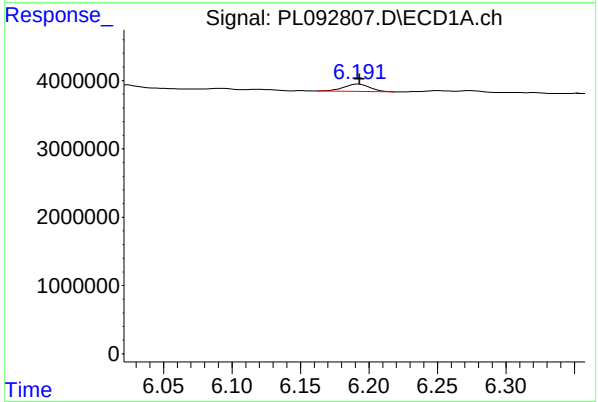
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 11/04/2024
Supervised By :Ankita Jodhani 11/04/2024



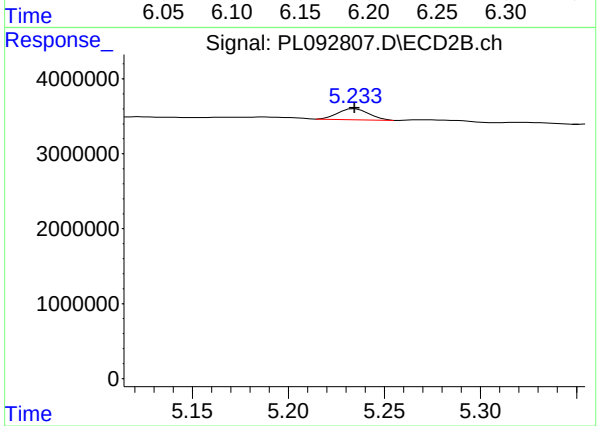
#1 Tetrachloro-m-xylene

R.T.: 2.778 min
Delta R.T.: 0.000 min
Response: 35930823
Conc: 13.20 ng/ml



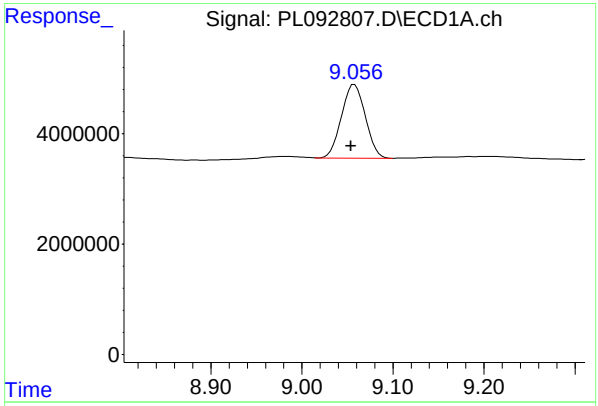
#12 4,4'-DDE

R.T.: 6.191 min
Delta R.T.: -0.002 min
Response: 1443343
Conc: 0.61 ng/ml m



#12 4,4'-DDE

R.T.: 5.233 min
Delta R.T.: -0.001 min
Response: 1644831
Conc: 0.51 ng/ml m



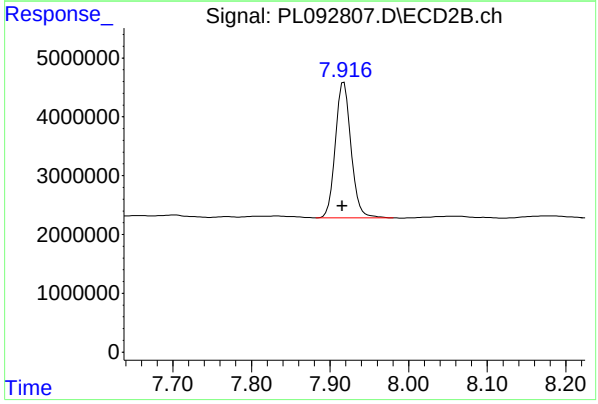
#28 Decachlorobiphenyl

R.T.: 9.056 min
Delta R.T.: 0.002 min
Response: 24606013
Conc: 12.79 ng/ml

Instrument :
ECD_L
ClientSampleId :
RES-BUILDING-PAD-NO-11

Manual Integrations APPROVED

Reviewed By :Abdul Mirza 11/04/2024
Supervised By :Ankita Jodhani 11/04/2024



#28 Decachlorobiphenyl

R.T.: 7.918 min
Delta R.T.: 0.002 min
Response: 31940307
Conc: 11.70 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL110124\
Data File : PL092808.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 Nov 2024 16:24
Operator : AR\AJ
Sample : P4663-06
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
ECD_L
ClientSampleId :
RES-BUILDING-PAD-NO-3

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 04 01:44:21 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL102824.M
Quant Title : GC Extractables
QLast Update : Mon Oct 28 18:58:23 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR2 Signal #2 Phase: ZB-MR1
Signal #1 Info : 30M x 0.32mm x0.2 Signal #2 Info : 30M x 0.32mm x0.5µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
1)	SA Tetrachlo...	3.542	2.778	36490088	39737059	14.892	14.603
28)	SA Decachlor...	9.059	7.918	28504404	32312205	14.811	11.839
	Target Compounds						

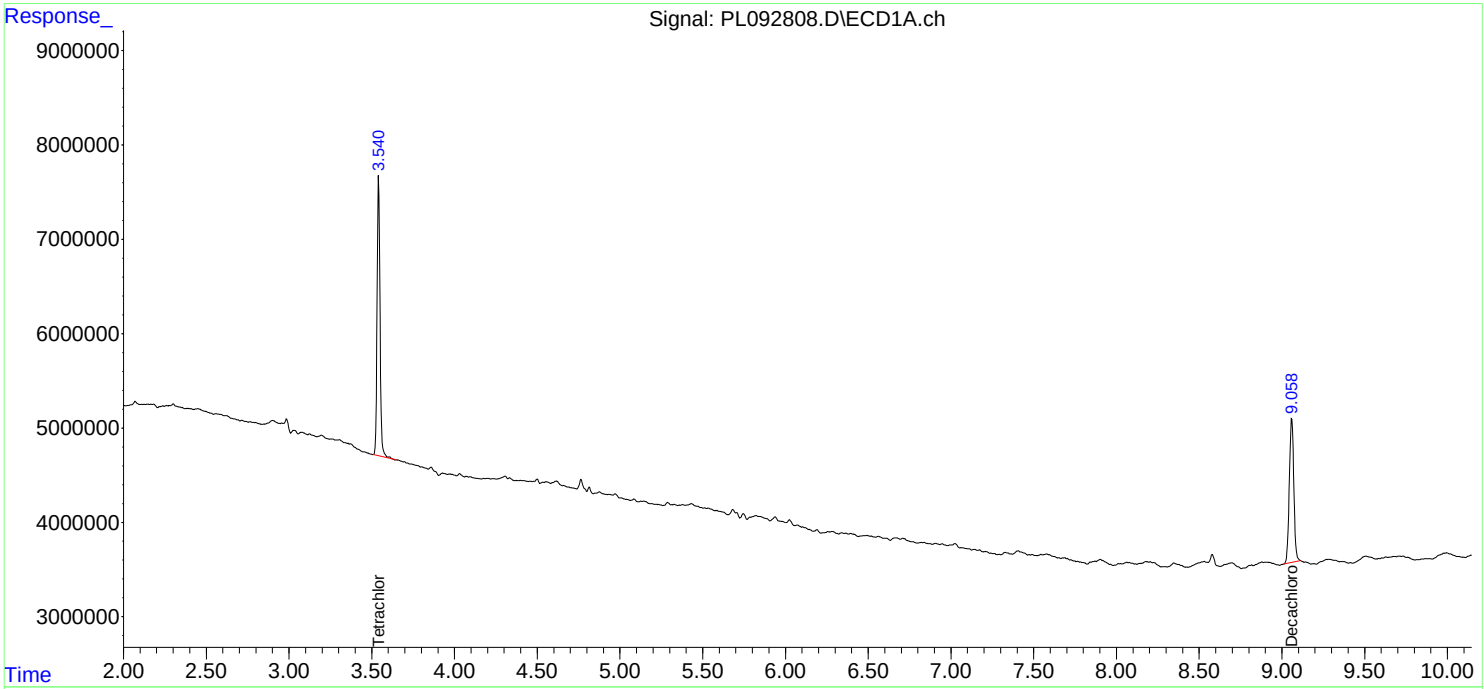
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

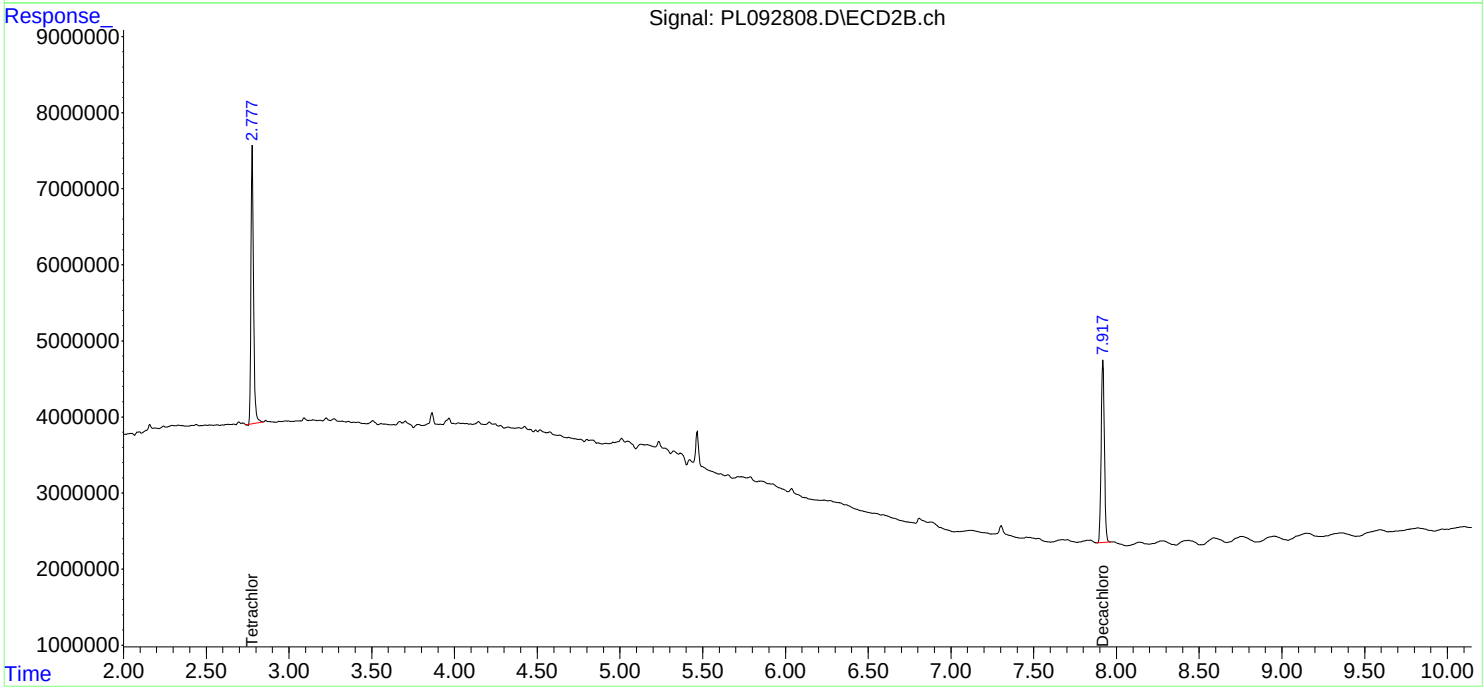
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL110124\
Data File : PL092808.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 Nov 2024 16:24
Operator : AR\AJ
Sample : P4663-06
Misc :
ALS Vial : 21 Sample Multiplier: 1

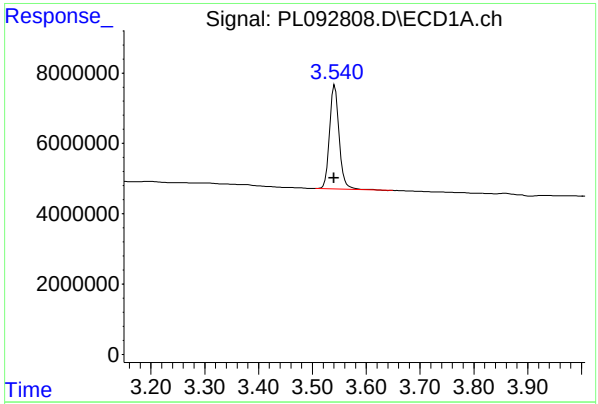
Instrument :
ECD_L
ClientSampleId :
RES-BUILDING-PAD-NO-3

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 04 01:44:21 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL102824.M
Quant Title : GC Extractables
QLast Update : Mon Oct 28 18:58:23 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR2 Signal #2 Phase: ZB-MR1
Signal #1 Info : 30M x 0.32mm x0.2 Signal #2 Info : 30M x 0.32mm x0.5µm



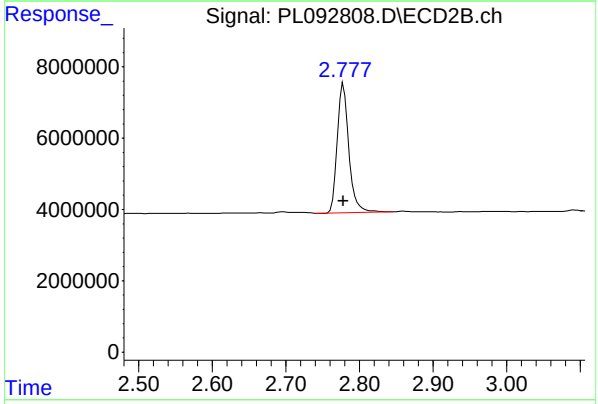




#1 Tetrachloro-m-xylene

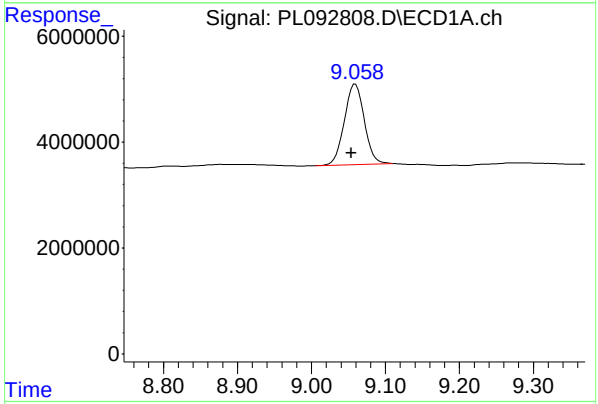
R.T.: 3.542 min
Delta R.T.: 0.002 min
Response: 36490088
Conc: 14.89 ng/ml

Instrument :
ECD_L
ClientSampleId :
RES-BUILDING-PAD-NO-3



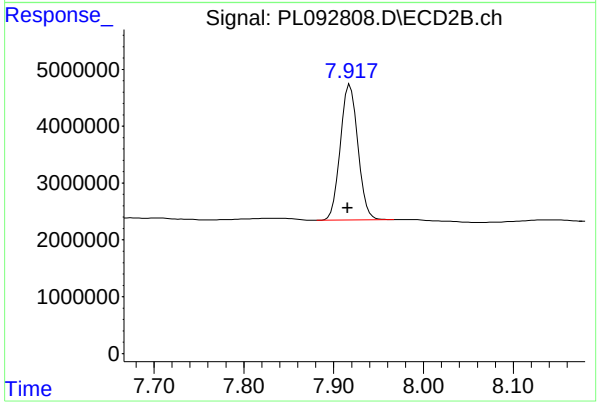
#1 Tetrachloro-m-xylene

R.T.: 2.778 min
Delta R.T.: 0.000 min
Response: 39737059
Conc: 14.60 ng/ml



#28 Decachlorobiphenyl

R.T.: 9.059 min
Delta R.T.: 0.005 min
Response: 28504404
Conc: 14.81 ng/ml



#28 Decachlorobiphenyl

R.T.: 7.918 min
Delta R.T.: 0.003 min
Response: 32312205
Conc: 11.84 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL110124\
Data File : PL092809.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 Nov 2024 16:38
Operator : AR\AJ
Sample : P4663-08
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
ECD_L
ClientSampleId :
RES-BUILDING-PAD-NO-2

Manual Integrations APPROVED
Reviewed By :Abdul Mirza 11/04/2024
Supervised By :Ankita Jodhani 11/04/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 04 01:44:43 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL102824.M
Quant Title : GC Extractables
QLast Update : Mon Oct 28 18:58:23 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR2 Signal #2 Phase: ZB-MR1
Signal #1 Info : 30M x 0.32mm x0.2 Signal #2 Info : 30M x 0.32mm x0.5µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
1)	SA Tetrachlo...	3.540	2.795	44171610	46707131	18.027m	17.164
28)	SA Decachlor...	9.059	7.933	30794001	39266070	16.001	14.387m
	Target Compounds						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

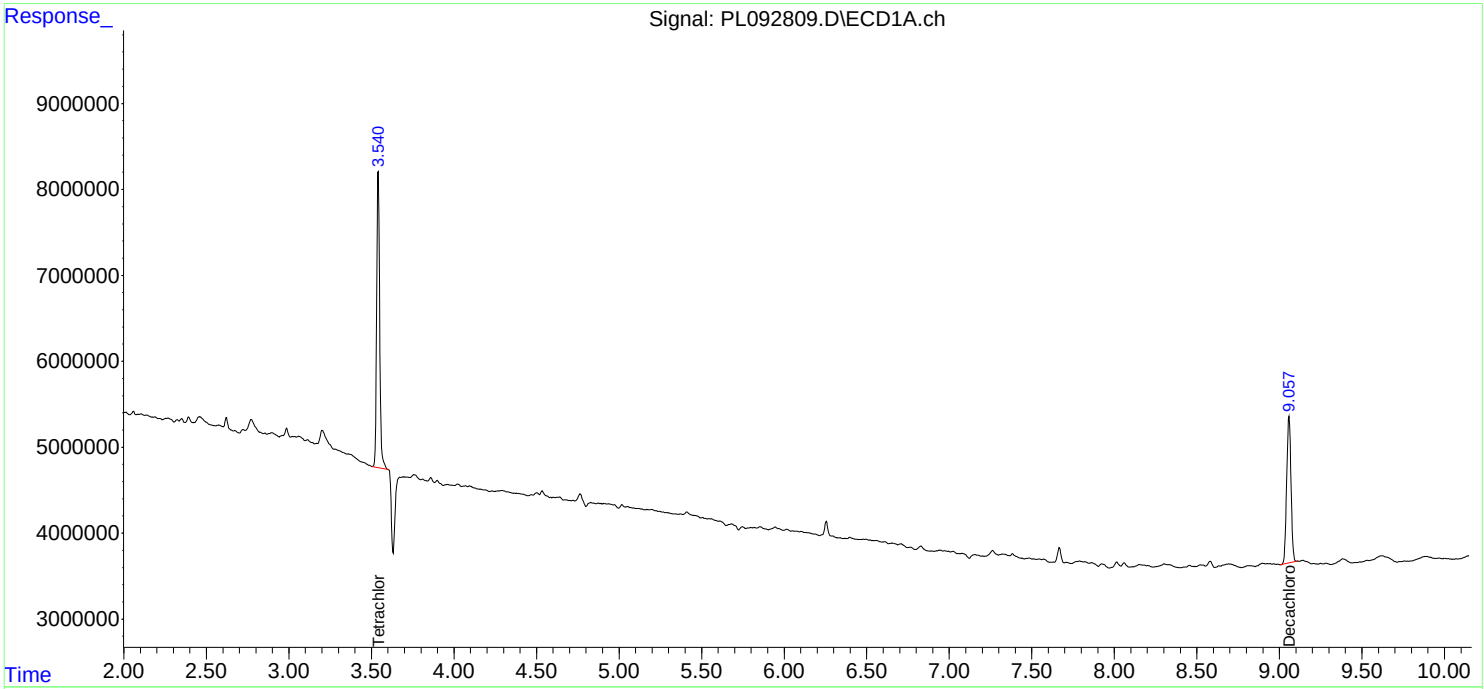
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL110124\
Data File : PL092809.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 Nov 2024 16:38
Operator : AR\AJ
Sample : P4663-08
Misc :
ALS Vial : 22 Sample Multiplier: 1

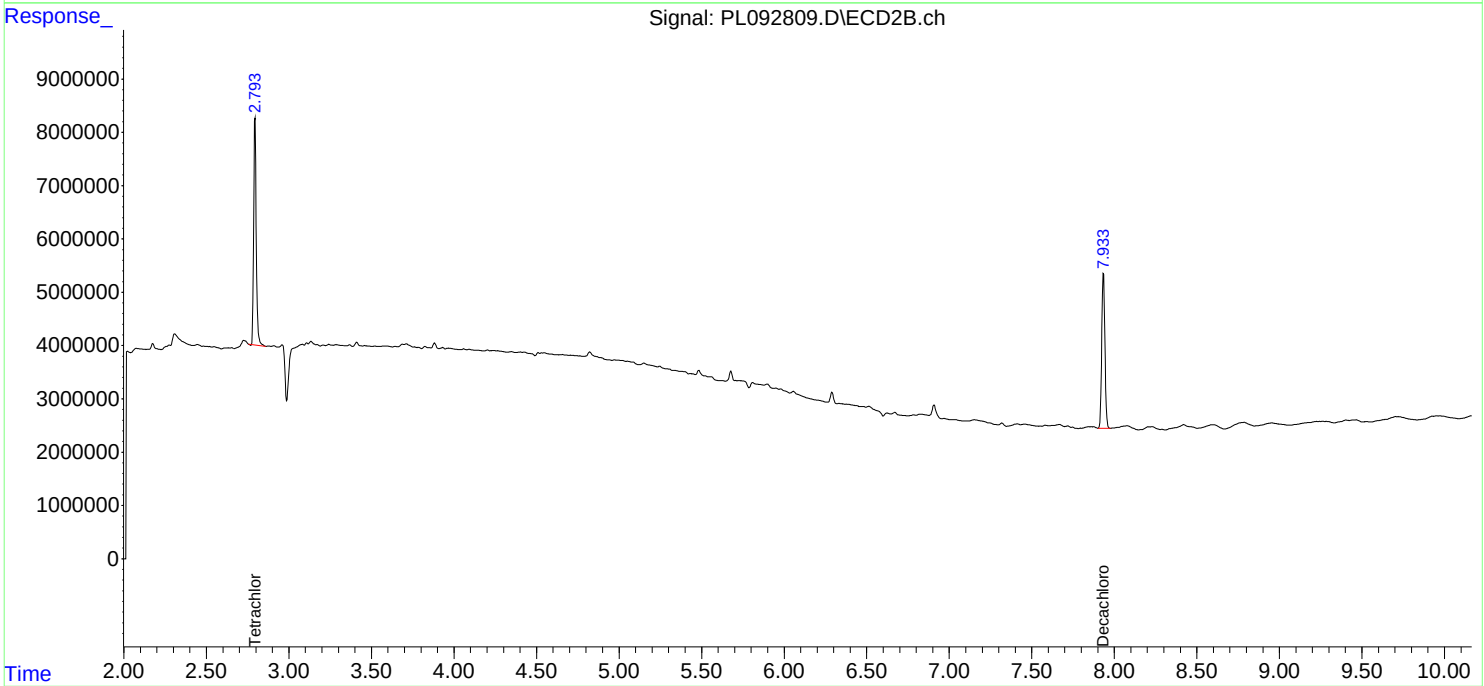
Instrument :
ECD_L
ClientSampleId :
RES-BUILDING-PAD-NO-2

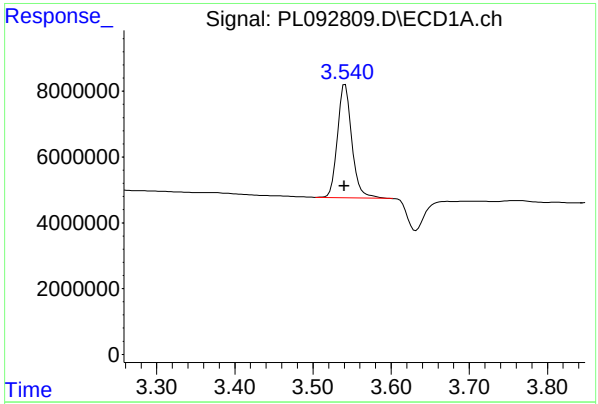
Manual Integrations APPROVED
Reviewed By :Abdul Mirza 11/04/2024
Supervised By :Ankita Jodhani 11/04/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 04 01:44:43 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL102824.M
Quant Title : GC Extractables
QLast Update : Mon Oct 28 18:58:23 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR2 Signal #2 Phase: ZB-MR1
Signal #1 Info : 30M x 0.32mm x0.2 Signal #2 Info : 30M x 0.32mm x0.5µm







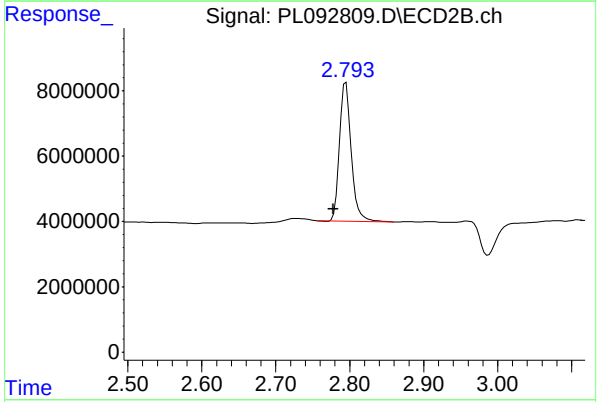
#1 Tetrachloro-m-xylene

R.T.: 3.540 min
Delta R.T.: 0.000 mi
Response: 44171610
Conc: 18.03 ng/m

Instrument :
ECD_L
ClientSampleId :
RES-BUILDING-PAD-NO-2

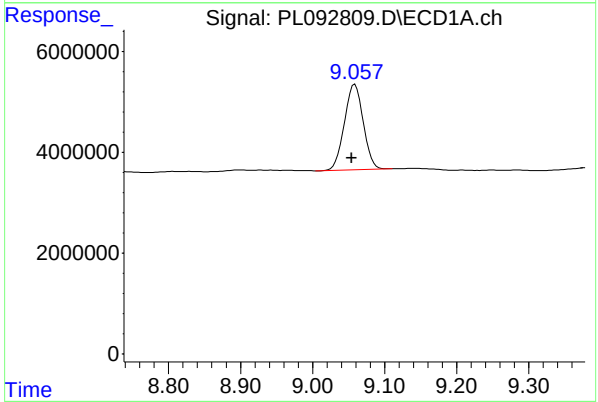
Manual Integrations APPROVED

Reviewed By :Abdul Mirza 11/04/2024
Supervised By :Ankita Jodhani 11/04/2024



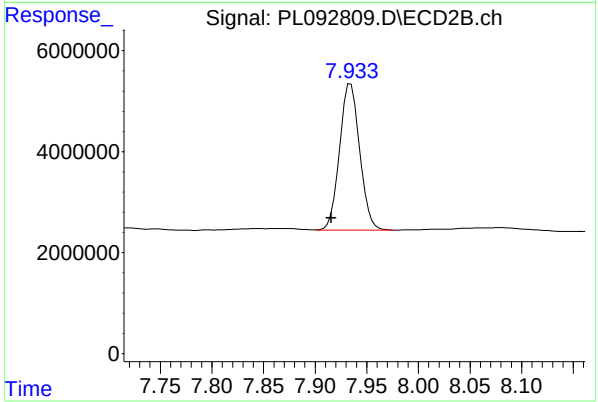
#1 Tetrachloro-m-xylene

R.T.: 2.795 min
Delta R.T.: 0.017 min
Response: 46707131
Conc: 17.16 ng/ml



#28 Decachlorobiphenyl

R.T.: 9.059 min
Delta R.T.: 0.005 min
Response: 30794001
Conc: 16.00 ng/ml



#28 Decachlorobiphenyl

R.T.: 7.933 min
Delta R.T.: 0.017 min
Response: 39266070
Conc: 14.39 ng/ml m

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL110124\
Data File : PL092801.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 Nov 2024 14:47
Operator : AR\AJ
Sample : PB164592BL
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
ECD_L
ClientSampleId :
PB164592BL

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 04 01:41:46 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL102824.M
Quant Title : GC Extractables
QLast Update : Mon Oct 28 18:58:23 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR2 Signal #2 Phase: ZB-MR1
Signal #1 Info : 30M x 0.32mm x0.2 Signal #2 Info : 30M x 0.32mm x0.5µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
1)	SA Tetrachlo...	3.546	2.779	48927386	51903561	19.968	19.074
28)	SA Decachlor...	9.063	7.920	40833698	60045385	21.217	22.001
	Target Compounds						

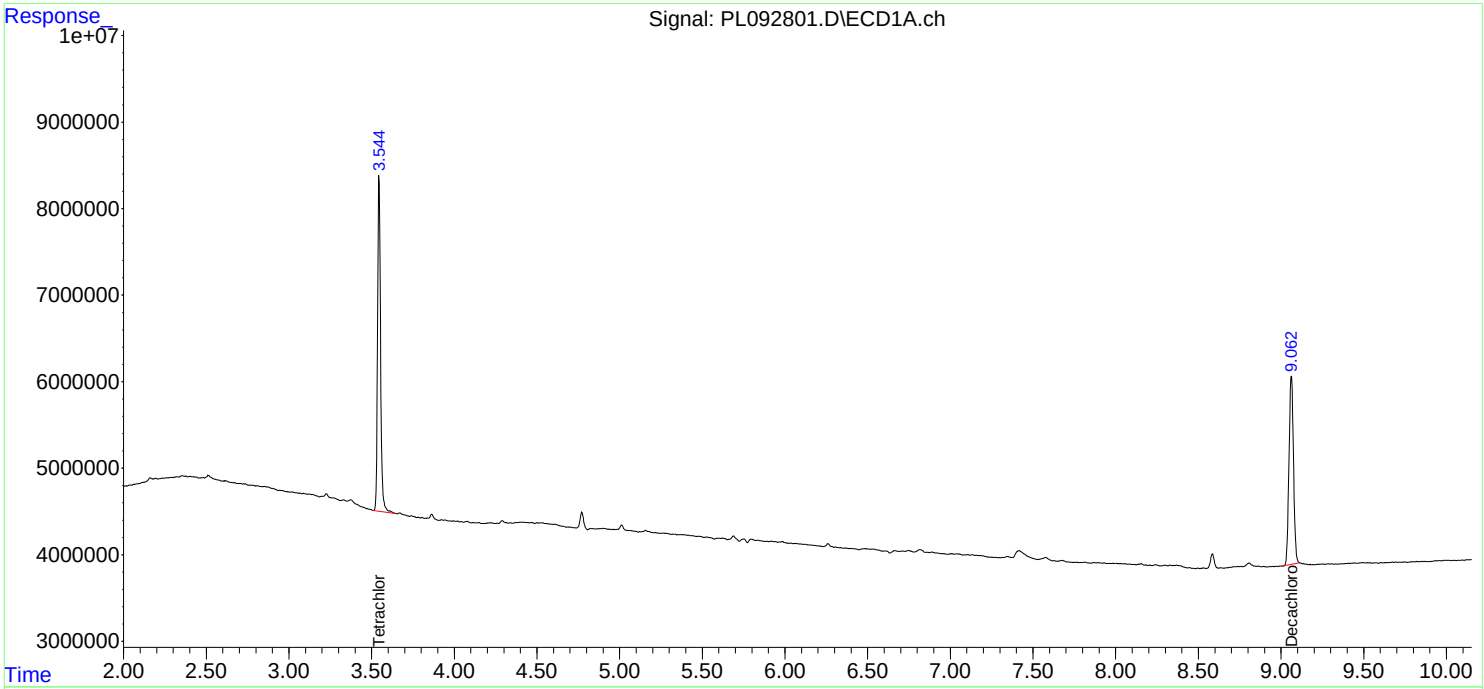
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

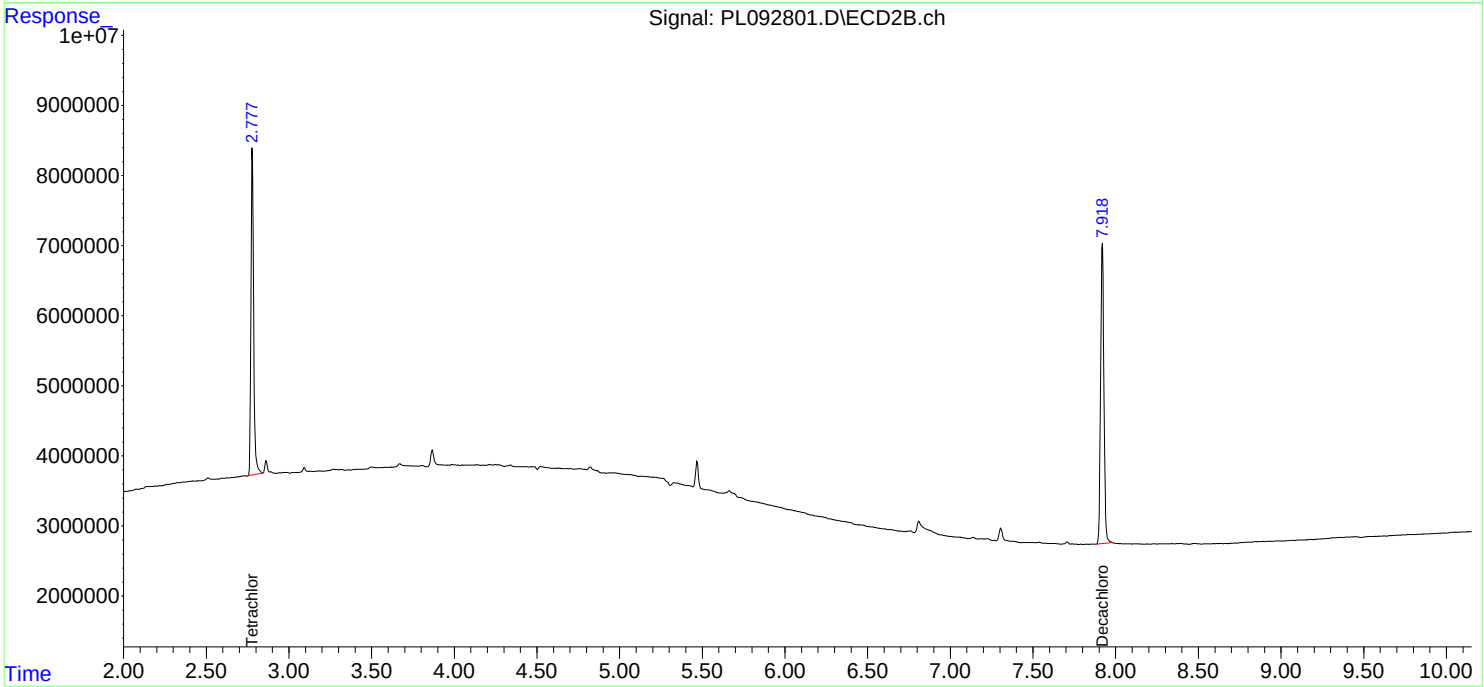
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL110124\
Data File : PL092801.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 Nov 2024 14:47
Operator : AR\AJ
Sample : PB164592BL
Misc :
ALS Vial : 14 Sample Multiplier: 1

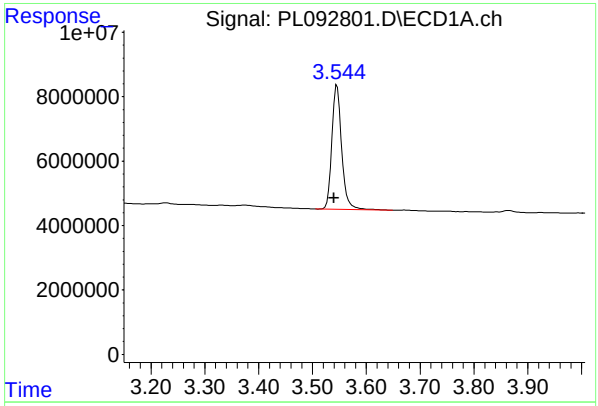
Instrument :
ECD_L
ClientSampleId :
PB164592BL

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 04 01:41:46 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL102824.M
Quant Title : GC Extractables
QLast Update : Mon Oct 28 18:58:23 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR2 Signal #2 Phase: ZB-MR1
Signal #1 Info : 30M x 0.32mm x0.2 Signal #2 Info : 30M x 0.32mm x0.5µm



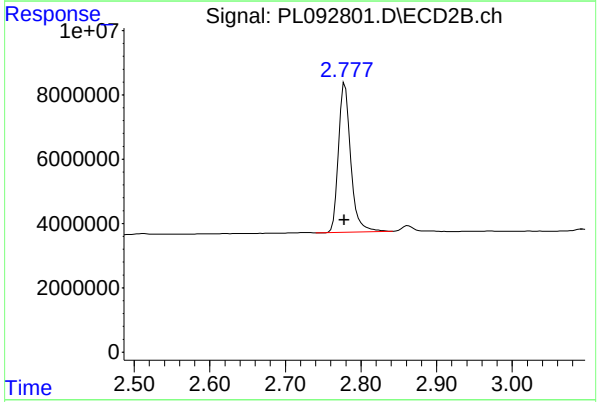




#1 Tetrachloro-m-xylene

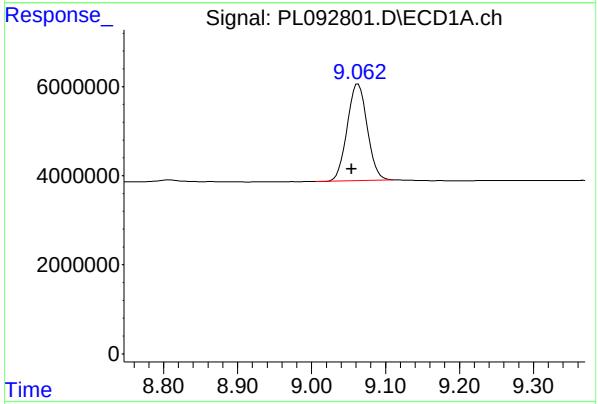
R.T.: 3.546 min
Delta R.T.: 0.006 min
Response: 48927386
Conc: 19.97 ng/ml

Instrument :
ECD_L
ClientSampleId :
PB164592BL



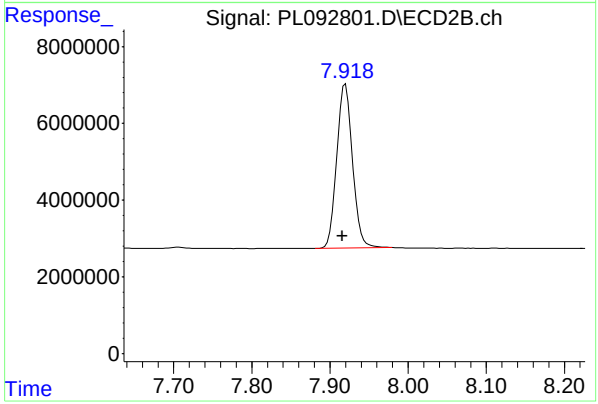
#1 Tetrachloro-m-xylene

R.T.: 2.779 min
Delta R.T.: 0.000 min
Response: 51903561
Conc: 19.07 ng/ml



#28 Decachlorobiphenyl

R.T.: 9.063 min
Delta R.T.: 0.009 min
Response: 40833698
Conc: 21.22 ng/ml



#28 Decachlorobiphenyl

R.T.: 7.920 min
Delta R.T.: 0.004 min
Response: 60045385
Conc: 22.00 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL110124\
Data File : PL092802.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 Nov 2024 15:01
Operator : AR\AJ
Sample : PB164592BS
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
ECD_L
ClientSampleId :
PB164592BS

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 04 01:42:05 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL102824.M
Quant Title : GC Extractables
QLast Update : Mon Oct 28 18:58:23 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR2 Signal #2 Phase: ZB-MR1
Signal #1 Info : 30M x 0.32mm x0.2 Signal #2 Info : 30M x 0.32mm x0.5µm

		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
		System Monitoring Compounds						
1)	SA	Tetrachlo...	3.542	2.778	47799689	49755007	19.508	18.284
28)	SA	Decachlor...	9.059	7.919	40043126	57970850	20.806	21.241
		Target Compounds						
2)	A	alpha-BHC	3.998	3.281	172.5E6	212.0E6	50.857	53.135
3)	MA	gamma-BHC...	4.331	3.611	163.7E6	203.9E6	50.212	52.842
4)	MA	Heptachlor	4.920	3.950	159.7E6	211.7E6	53.191	56.095
5)	MB	Aldrin	5.261	4.230	150.5E6	195.6E6	50.149	53.436
6)	B	beta-BHC	4.528	3.911	74690849	89003785	51.673	54.065
7)	B	delta-BHC	4.776	4.140	141.6E6	180.4E6	45.239	46.934
8)	B	Heptachlo...	5.688	4.733	140.6E6	184.6E6	50.918	55.256
9)	A	Endosulfan I	6.073	5.103	130.9E6	171.1E6	52.341	56.028
10)	B	gamma-Chl...	5.944	4.983	142.1E6	190.4E6	53.394	56.637
11)	B	alpha-Chl...	6.023	5.046	139.9E6	187.0E6	52.845	56.225
12)	B	4,4'-DDE	6.196	5.235	124.5E6	181.5E6	52.560	56.330
13)	MA	Dieldrin	6.348	5.367	138.3E6	190.0E6	52.478	56.886
14)	MA	Endrin	6.578	5.643	117.5E6	172.3E6	51.605	59.545
15)	B	Endosulfa...	6.797	5.938	124.0E6	163.4E6	52.002	57.667
16)	A	4,4'-DDD	6.713	5.791	101.5E6	142.3E6	52.888	57.151
17)	MA	4,4'-DDT	7.027	6.041	112.3E6	155.3E6	54.238	57.906
18)	B	Endrin al...	6.927	6.117	95507755	125.2E6	50.857	54.253
19)	B	Endosulfa...	7.162	6.340	111.1E6	150.8E6	51.175	55.905
20)	A	Methoxychlor	7.503	6.617	58726656	80022355	51.515	56.037
21)	B	Endrin ke...	7.647	6.846	124.8E6	172.5E6	51.509	56.205
22)		Mirex	8.120	7.026	89390608	124.4E6	45.108	47.683

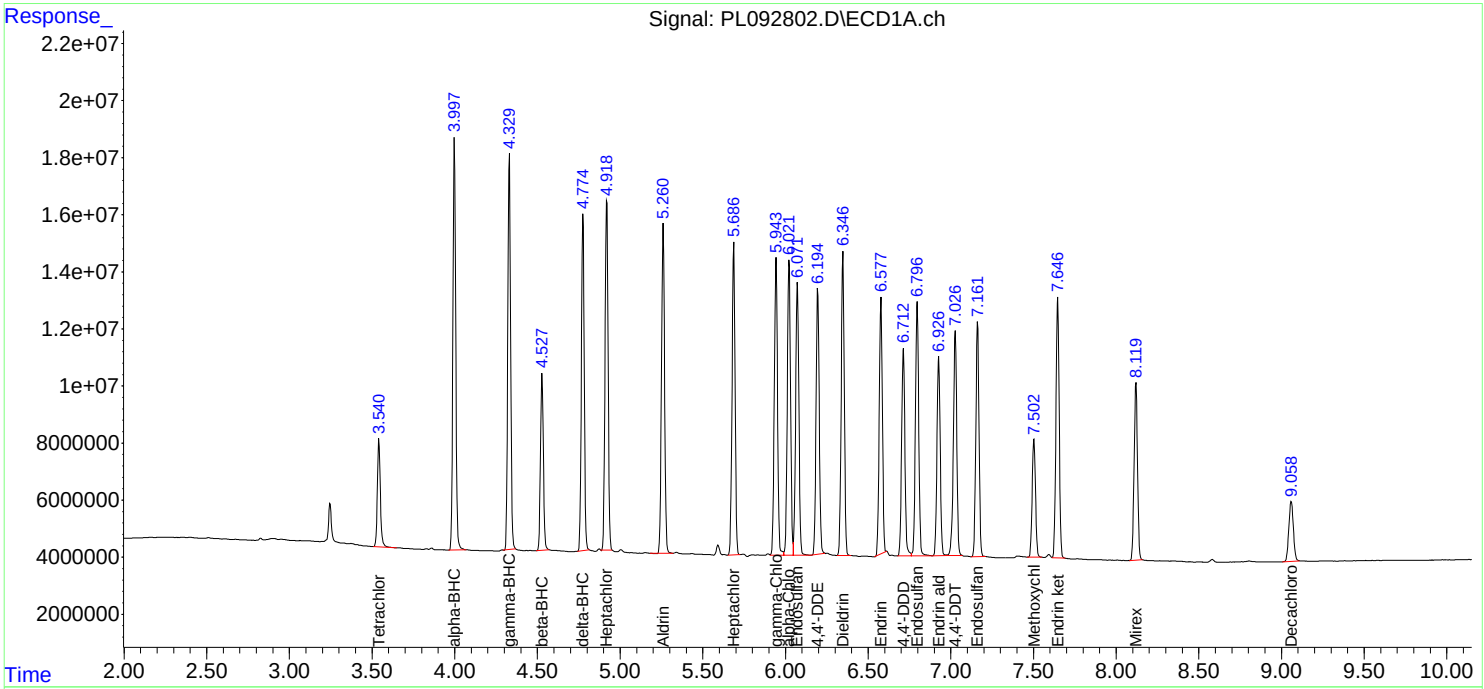
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

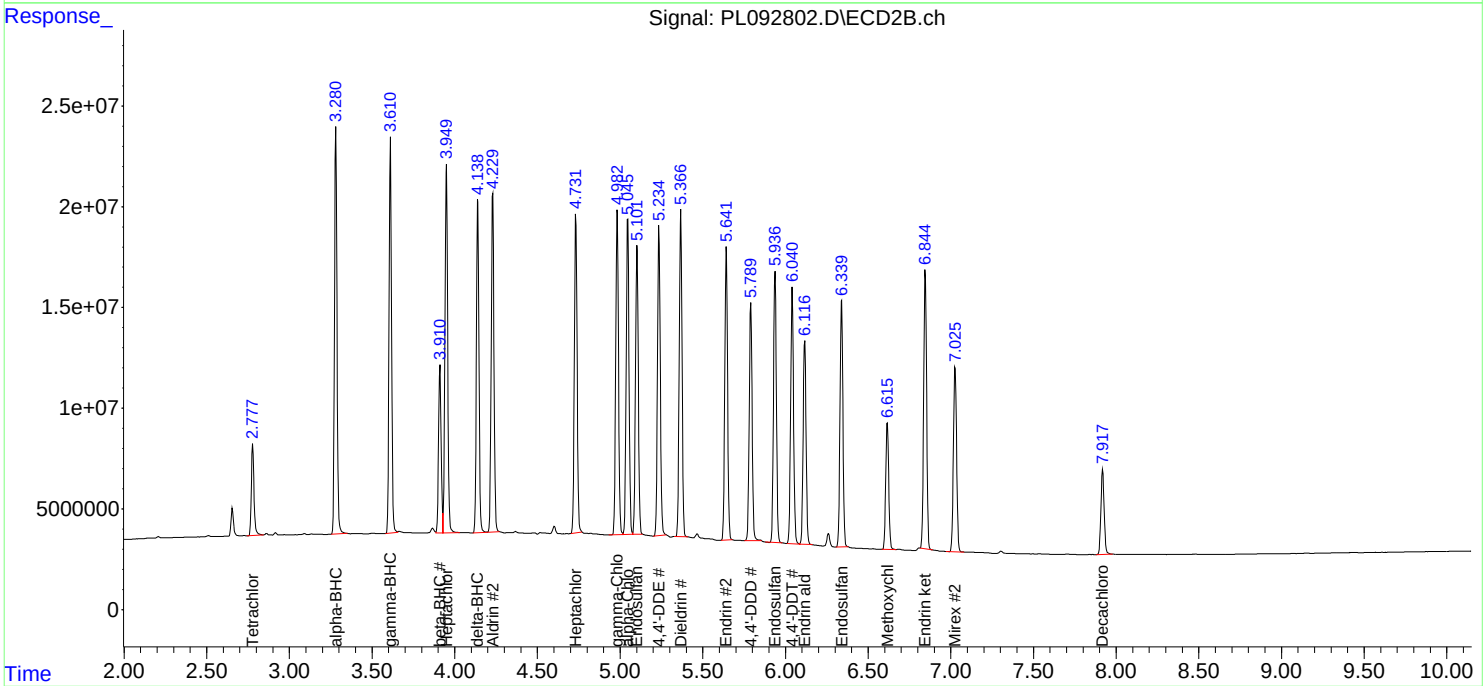
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL110124\
Data File : PL092802.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 Nov 2024 15:01
Operator : AR\AJ
Sample : PB164592BS
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
ECD_L
ClientSampleId :
PB164592BS

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 04 01:42:05 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL102824.M
Quant Title : GC Extractables
QLast Update : Mon Oct 28 18:58:23 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR2 Signal #2 Phase: ZB-MR1
Signal #1 Info : 30M x 0.32mm x0.2 Signal #2 Info : 30M x 0.32mm x0.5µm





Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL110124\
Data File : PL092810.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 Nov 2024 16:52
Operator : AR\AJ
Sample : P4663-08MS
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument :
ECD_L
ClientSampleId :
RES-BUILDING-PAD-NO-2MS

Manual Integrations APPROVED
Reviewed By :Abdul Mirza 11/04/2024
Supervised By :Ankita Jodhani 11/04/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 04 01:45:03 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL102824.M
Quant Title : GC Extractables
QLast Update : Mon Oct 28 18:58:23 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR2 Signal #2 Phase: ZB-MR1
Signal #1 Info : 30M x 0.32mm x0.2 Signal #2 Info : 30M x 0.32mm x0.5µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
1) SA	Tetrachlo...	3.539	2.778	42253585	36435741	17.245m	13.390
28) SA	Decachlor...	9.058	7.918	27164528	32417946	14.115	11.878
	Target Compounds						
2) A	alpha-BHC	3.998	3.281	137.2E6	170.0E6	40.462	42.603
3) MA	gamma-BHC...	4.330	3.611	133.2E6	166.5E6	40.862	43.137
4) MA	Heptachlor	4.919	3.950	135.8E6	185.2E6	45.216	49.080
5) MB	Aldrin	5.260	4.230	129.6E6	172.4E6	43.178	47.090
6) B	beta-BHC	4.528	3.910	66730111	79793498	46.165	48.470
7) B	delta-BHC	4.774	4.140	39663803	44031080	12.673	11.457
8) B	Heptachlo...	5.687	4.733	119.8E6	156.1E6	43.382	46.723
9) A	Endosulfan I	6.072	5.102	110.0E6	146.2E6	43.968	47.881
10) B	gamma-Chl...	5.943	4.982	120.9E6	163.9E6	45.431	48.754
11) B	alpha-Chl...	6.022	5.046	118.4E6	160.7E6	44.694	48.304
12) B	4,4'-DDE	6.195	5.235	106.0E6	159.4E6	44.749	49.494
13) MA	Dieldrin	6.347	5.366	115.1E6	160.0E6	43.666	47.903
14) MA	Endrin	6.578	5.642	97714052	141.3E6	42.920	48.841
15) B	Endosulfa...	6.797	5.937	102.1E6	130.6E6	42.836	46.111
16) A	4,4'-DDD	6.713	5.790	85868689	112.1E6	44.734	45.019
17) MA	4,4'-DDT	7.027	6.040	90596804	122.7E6	43.772	45.729
18) B	Endrin al...	6.927	6.116	79957370	100.4E6	42.576	43.525
19) B	Endosulfa...	7.161	6.339	77215036	98888523	35.577	36.668
20) A	Methoxychlor	7.502	6.616	49567149	64956721	43.480	45.487
21) B	Endrin ke...	7.647	6.845	102.6E6	132.8E6	42.337	43.281
22)	Mirex	8.120	7.025	79479195	104.9E6	40.106	40.214

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

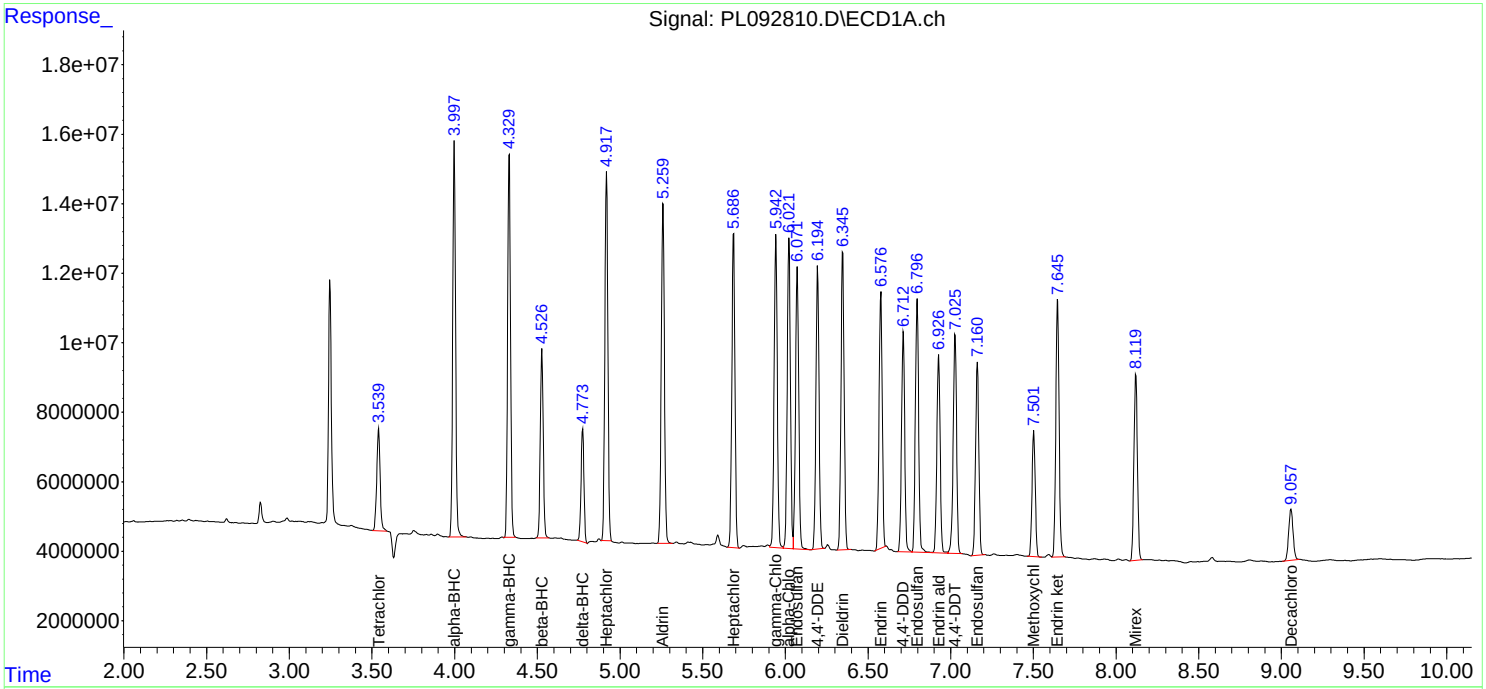
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL110124\
Data File : PL092810.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 Nov 2024 16:52
Operator : AR\AJ
Sample : P4663-08MS
Misc :
ALS Vial : 23 Sample Multiplier: 1

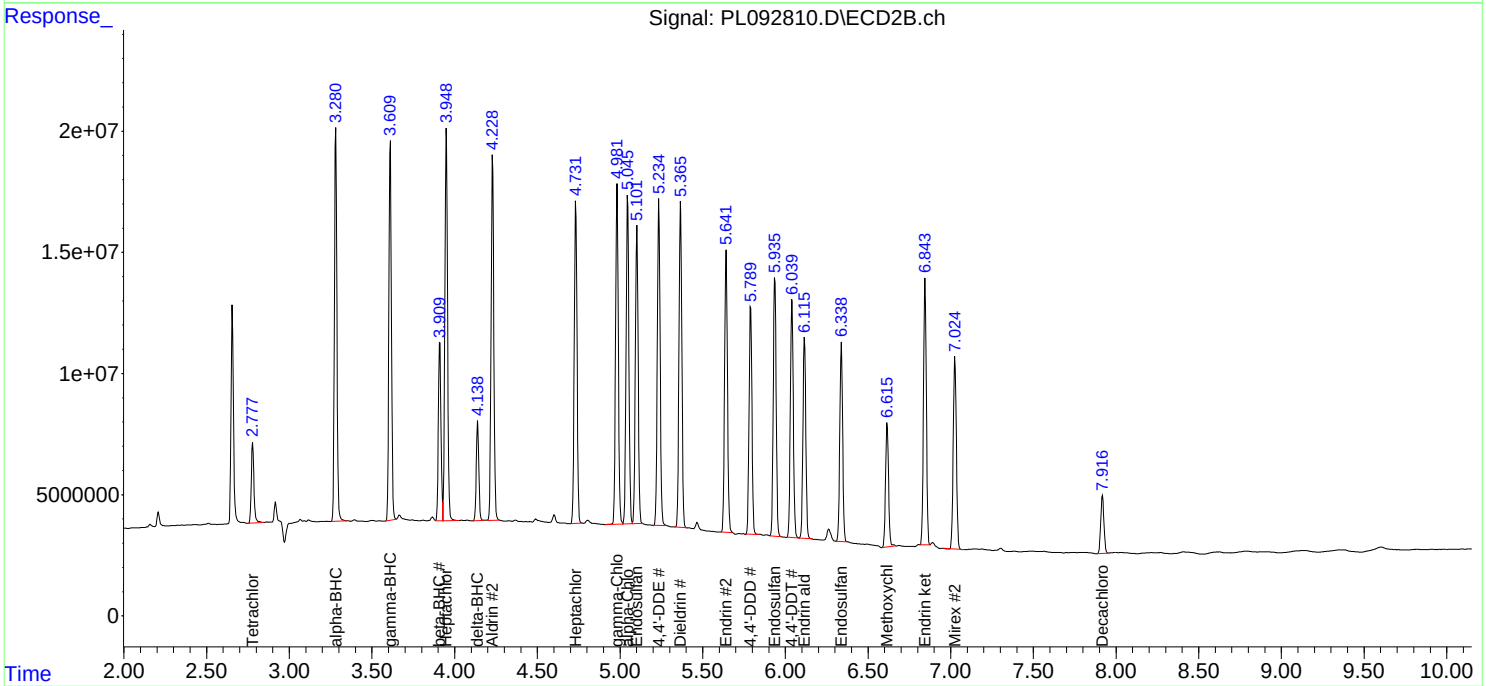
Instrument :
ECD_L
ClientSampleId :
RES-BUILDING-PAD-NO-2MS

Manual Integrations APPROVED
Reviewed By :Abdul Mirza 11/04/2024
Supervised By :Ankita Jodhani 11/04/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 04 01:45:03 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL102824.M
Quant Title : GC Extractables
QLast Update : Mon Oct 28 18:58:23 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR2 Signal #2 Phase: ZB-MR1
Signal #1 Info : 30M x 0.32mm x0.2 Signal #2 Info : 30M x 0.32mm x0.5µm





Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL110124\
Data File : PL092811.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 Nov 2024 17:06
Operator : AR\AJ
Sample : P4663-08MSD
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument :
ECD_L
ClientSampleId :
RES-BUILDING-PAD-NO-2MSD

Manual Integrations APPROVED
Reviewed By :Abdul Mirza 11/04/2024
Supervised By :Ankita Jodhani 11/04/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 04 01:45:24 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL102824.M
Quant Title : GC Extractables
QLast Update : Mon Oct 28 18:58:23 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR2 Signal #2 Phase: ZB-MR1
Signal #1 Info : 30M x 0.32mm x0.2 Signal #2 Info : 30M x 0.32mm x0.5µm

		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
		System Monitoring Compounds						
1)	SA	Tetrachlo...	3.540	2.779	42618757	36402105	17.394m	13.377
28)	SA	Decachlor...	9.060	7.919	25915828	32893214	13.466	12.052
		Target Compounds						
2)	A	alpha-BHC	3.998	3.281	138.6E6	170.0E6	40.880	42.608
3)	MA	gamma-BHC...	4.331	3.611	134.5E6	167.2E6	41.251	43.319
4)	MA	Heptachlor	4.919	3.951	137.7E6	185.0E6	45.848	49.011
5)	MB	Aldrin	5.261	4.230	128.9E6	171.1E6	42.939	46.758
6)	B	beta-BHC	4.529	3.911	67067170	80516982	46.398	48.909
7)	B	delta-BHC	4.775	4.140	39635080	43965563	12.663	11.440
8)	B	Heptachlo...	5.688	4.733	121.2E6	159.3E6	43.880	47.688
9)	A	Endosulfan I	6.073	5.103	110.5E6	146.8E6	44.175	48.072
10)	B	gamma-Chl...	5.944	4.983	119.7E6	164.9E6	44.978	49.063
11)	B	alpha-Chl...	6.022	5.047	118.4E6	161.9E6	44.720	48.680
12)	B	4,4'-DDE	6.196	5.236	109.6E6	159.2E6	46.257	49.431
13)	MA	Dieldrin	6.348	5.368	116.6E6	159.9E6	44.238	47.857
14)	MA	Endrin	6.578	5.643	98408904	145.2E6	43.225	50.181
15)	B	Endosulfa...	6.798	5.938	104.1E6	134.4E6	43.654	47.453
16)	A	4,4'-DDD	6.714	5.791	87911082	118.8E6	45.798	47.712
17)	MA	4,4'-DDT	7.027	6.042	90449550	123.5E6	43.701	46.051
18)	B	Endrin al...	6.928	6.117	79977347	100.4E6	42.587	43.522
19)	B	Endosulfa...	7.162	6.340	78302732	101.1E6	36.079	37.479
20)	A	Methoxychlor	7.503	6.617	50453470	67183731	44.257	47.046
21)	B	Endrin ke...	7.648	6.846	105.1E6	133.9E6	43.371	43.617
22)		Mirex	8.120	7.026	80433689	110.8E6	40.588	42.466

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

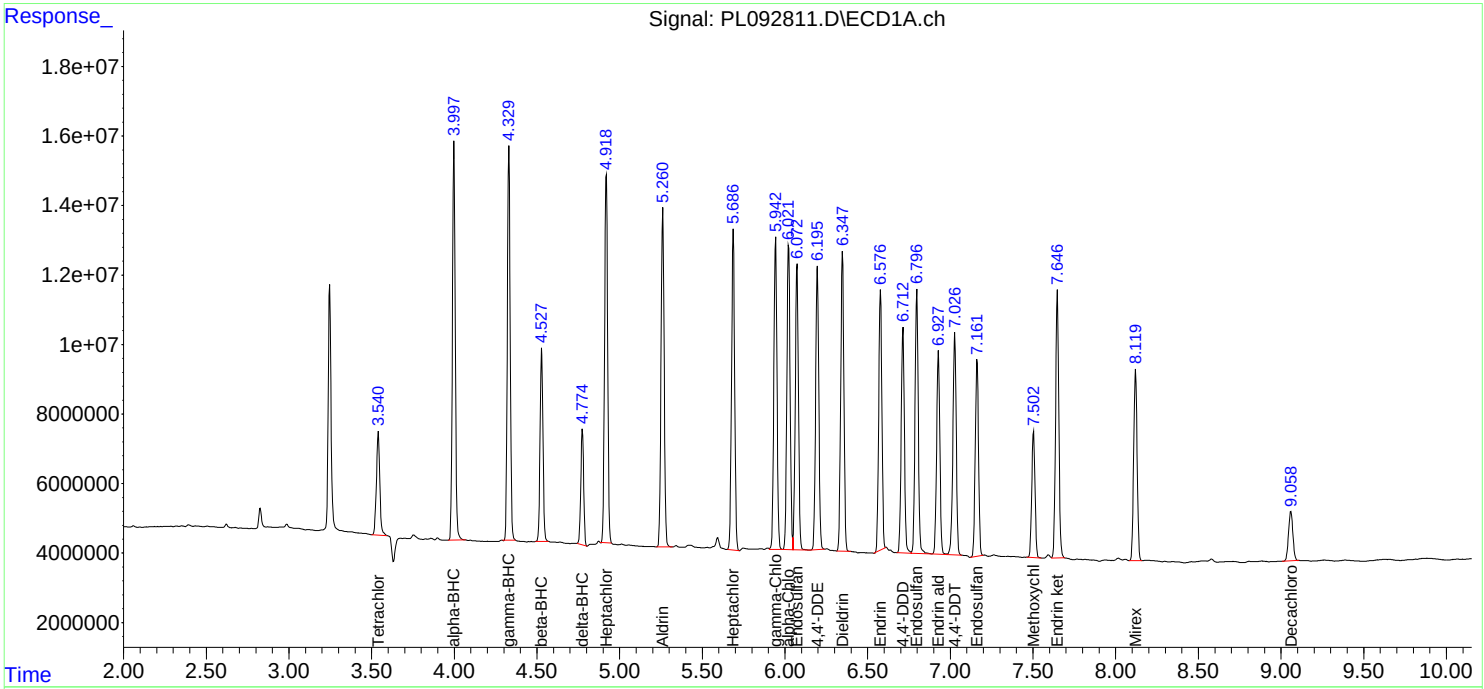
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL110124\
Data File : PL092811.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 Nov 2024 17:06
Operator : AR\AJ
Sample : P4663-08MSD
Misc :
ALS Vial : 24 Sample Multiplier: 1

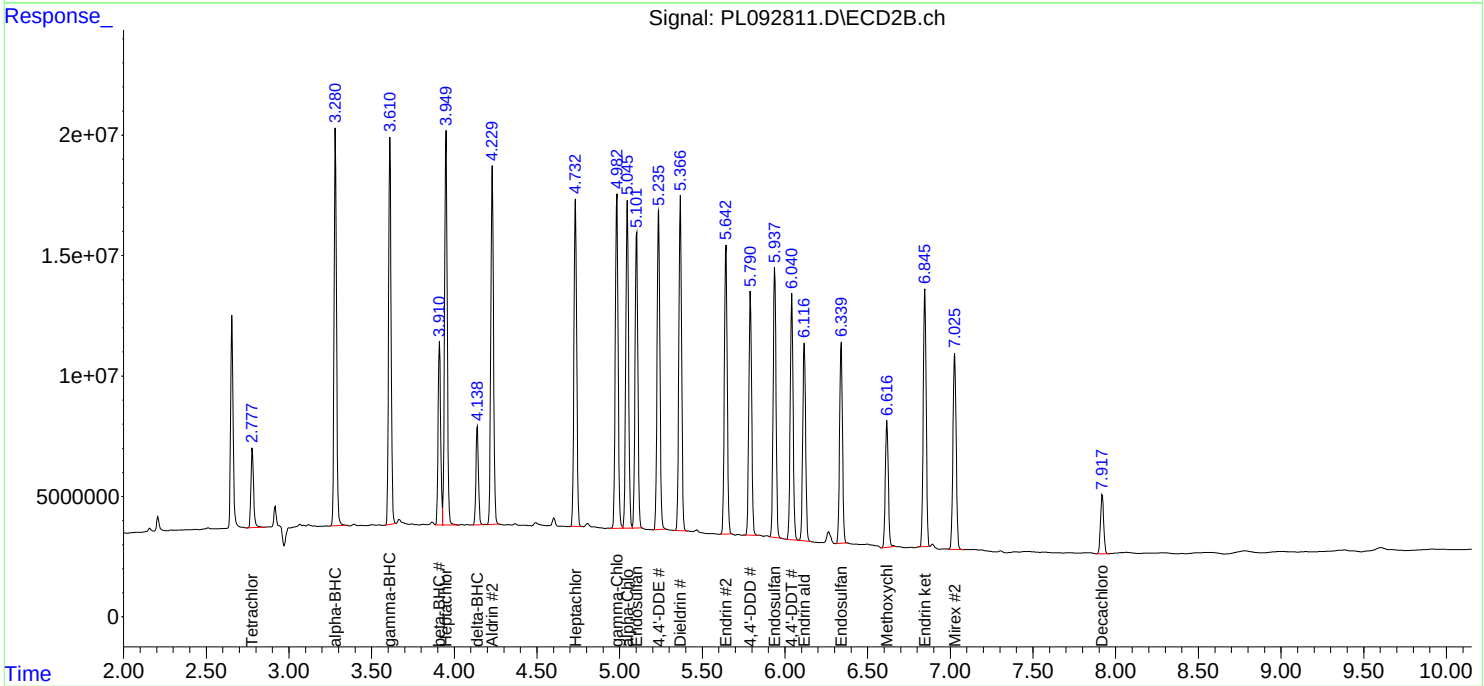
Instrument :
ECD_L
ClientSampleId :
RES-BUILDING-PAD-NO-2MSD

Manual Integrations APPROVED
Reviewed By :Abdul Mirza 11/04/2024
Supervised By :Ankita Jodhani 11/04/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 04 01:45:24 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL102824.M
Quant Title : GC Extractables
QLast Update : Mon Oct 28 18:58:23 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR2 Signal #2 Phase: ZB-MR1
Signal #1 Info : 30M x 0.32mm x0.2 Signal #2 Info : 30M x 0.32mm x0.5µm





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

Manual Integration Report

Sequence:	PL102824	Instrument	ECD_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
PEM	PL092653.D	4,4"-DDD	Abdul	10/29/2024 9:08:09 AM	Ankita	10/29/2024 10:01:26	Peak Integrated by Software
PEM	PL092653.D	4,4"-DDD #2	Abdul	10/29/2024 9:08:09 AM	Ankita	10/29/2024 10:01:26	Peak Integrated by Software
PSTDICC005	PL092659.D	delta-BHC	Abdul	10/29/2024 9:08:13 AM	Ankita	10/29/2024 10:01:28	Peak Integrated by Software
PSTDICC005	PL092659.D	Heptachlor epoxide	Abdul	10/29/2024 9:08:13 AM	Ankita	10/29/2024 10:01:28	Peak Integrated by Software
PEM	PL092674.D	4,4"-DDD #2	Abdul	10/29/2024 9:08:21 AM	Ankita	10/29/2024 10:01:31	Peak Integrated by Software
PEM	PL092674.D	4,4"-DDE	Abdul	10/29/2024 9:08:21 AM	Ankita	10/29/2024 10:01:31	Peak Integrated by Software
PEM	PL092674.D	4,4"-DDE #2	Abdul	10/29/2024 9:08:21 AM	Ankita	10/29/2024 10:01:31	Peak Integrated by Software
PEM	PL092674.D	Endrin ketone #2	Abdul	10/29/2024 9:08:21 AM	Ankita	10/29/2024 10:01:31	Peak Integrated by Software
PSTDCCC050	PL092675.D	Aldrin	Abdul	10/29/2024 9:08:25 AM	Ankita	10/29/2024 10:01:33	Peak Integrated by Software
PSTDCCC050	PL092675.D	Dieldrin #2	Abdul	10/29/2024 9:08:25 AM	Ankita	10/29/2024 10:01:33	Peak Integrated by Software
PSTDCCC050	PL092675.D	gamma-BHC (Lindane)	Abdul	10/29/2024 9:08:25 AM	Ankita	10/29/2024 10:01:33	Peak Integrated by Software
PSTDCCC050	PL092675.D	Tetrachloro-m-xylene #2	Abdul	10/29/2024 9:08:25 AM	Ankita	10/29/2024 10:01:33	Peak Integrated by Software
I.BLK	PL092690.D	Tetrachloro-m-xylene #2	Abdul	10/29/2024 9:09:28 AM	Ankita	10/29/2024 10:02:09	Peak Integrated by Software

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

Manual Integration Report

Sequence:	PL102824	Instrument	ECD_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
PSTDCCC050	PL092691.D	Endosulfan II #2	Abdul	10/29/2024 9:09:32 AM	Ankita	10/29/2024 10:02:10	Peak Integrated by Software
PSTDCCC050	PL092691.D	gamma-Chlordane	Abdul	10/29/2024 9:09:32 AM	Ankita	10/29/2024 10:02:10	Peak Integrated by Software
PSTDCCC050	PL092691.D	Heptachlor epoxide	Abdul	10/29/2024 9:09:32 AM	Ankita	10/29/2024 10:02:10	Peak Integrated by Software
PSTDCCC050	PL092691.D	Mirex #2	Abdul	10/29/2024 9:09:32 AM	Ankita	10/29/2024 10:02:10	Peak Integrated by Software

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

Manual Integration Report

Sequence:	PL110124	Instrument	ECD_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
PEM	PL092788.D	4,4"-DDD	Abdul	11/1/2024 5:37:31 PM	Ankita	11/4/2024 10:11:13	Peak Integrated by Software
PEM	PL092788.D	Endrin aldehyde	Abdul	11/1/2024 5:37:31 PM	Ankita	11/4/2024 10:11:13	Peak Integrated by Software
PEM	PL092788.D	Endrin aldehyde #2	Abdul	11/1/2024 5:37:31 PM	Ankita	11/4/2024 10:11:13	Peak Integrated by Software
PEM	PL092788.D	Endrin ketone #2	Abdul	11/1/2024 5:37:31 PM	Ankita	11/4/2024 10:11:13	Peak Integrated by Software
P4663-02	PL092806.D	4,4"-DDT	Abdul	11/4/2024 7:35:09 AM	Ankita	11/4/2024 10:11:25	Peak Integrated by Software
P4663-02	PL092806.D	4,4"-DDT #2	Abdul	11/4/2024 7:35:09 AM	Ankita	11/4/2024 10:11:25	Peak Integrated by Software
P4663-02	PL092806.D	alpha-Chlordane #2	Abdul	11/4/2024 7:35:09 AM	Ankita	11/4/2024 10:11:25	Peak Integrated by Software
P4663-04	PL092807.D	4,4"-DDE	Abdul	11/4/2024 7:35:12 AM	Ankita	11/4/2024 10:11:26	Peak Integrated by Software
P4663-04	PL092807.D	4,4"-DDE #2	Abdul	11/4/2024 7:35:12 AM	Ankita	11/4/2024 10:11:26	Peak Integrated by Software
P4663-04	PL092807.D	Decachlorobiphenyl	Abdul	11/4/2024 7:35:12 AM	Ankita	11/4/2024 10:11:26	Peak Integrated by Software
P4663-08	PL092809.D	Decachlorobiphenyl #2	Abdul	11/4/2024 7:35:16 AM	Ankita	11/4/2024 10:11:28	Peak Integrated by Software
P4663-08	PL092809.D	Tetrachloro-m-xylene	Abdul	11/4/2024 7:35:16 AM	Ankita	11/4/2024 10:11:28	Peak Integrated by Software
P4663-08MS	PL092810.D	Tetrachloro-m-xylene	Abdul	11/4/2024 7:35:20 AM	Ankita	11/4/2024 10:11:30	Peak Integrated by Software

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Manual Integration Report

Sequence:	PL110124	Instrument	ECD_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
P4663-08MSD	PL092811.D	Tetrachloro-m-xylene	Abdul	11/4/2024 7:35:25 AM	Ankita	11/4/2024 10:11:32	Peak Integrated by Software

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Instrument ID: ECD_L

Daily Analysis Runlog For Sequence/QCBatch ID # PL102824

Review By	Abdul	Review On	10/29/2024 9:09:59 AM		
Supervise By	Ankita	Supervise On	10/29/2024 10:02:30 AM		
SubDirectory	PL102824	HP Acquire Method		HP Processing Method	pl102824 8081

STD. NAME	STD REF.#
Tune/Reschk	PP23793,PP23517
Initial Calibration Stds	PP23673,PP23674,PP23675,PP23676,PP23677,PP23678,PP23679,PP23680,PP23681,PP23682,PP23683
CCC	PP23686,PP23690,PP23695
Internal Standard/PEM	
ICV/I.BLK	PP23687,PP23693,PP23698
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	HEXANE	PL092651.D	28 Oct 2024 13:41	AR\AJ	Ok
2	I.BLK	PL092652.D	28 Oct 2024 13:55	AR\AJ	Ok
3	PEM	PL092653.D	28 Oct 2024 14:16	AR\AJ	Ok,M
4	RESCHK	PL092654.D	28 Oct 2024 14:29	AR\AJ	Ok
5	PSTDICC100	PL092655.D	28 Oct 2024 14:43	AR\AJ	Ok
6	PSTDICC075	PL092656.D	28 Oct 2024 14:56	AR\AJ	Ok
7	PSTDICC050	PL092657.D	28 Oct 2024 15:09	AR\AJ	Ok
8	PSTDICC025	PL092658.D	28 Oct 2024 15:23	AR\AJ	Ok
9	PSTDICC005	PL092659.D	28 Oct 2024 15:36	AR\AJ	Ok,M
10	PCHLORICC1000	PL092660.D	28 Oct 2024 15:49	AR\AJ	Ok
11	PCHLORICC750	PL092661.D	28 Oct 2024 16:03	AR\AJ	Ok
12	PCHLORICC500	PL092662.D	28 Oct 2024 16:16	AR\AJ	Ok
13	PCHLORICC250	PL092663.D	28 Oct 2024 16:30	AR\AJ	Ok
14	PCHLORICC050	PL092664.D	28 Oct 2024 16:43	AR\AJ	Ok
15	PTOXICC1000	PL092665.D	28 Oct 2024 16:56	AR\AJ	Ok
16	PTOXICC750	PL092666.D	28 Oct 2024 17:10	AR\AJ	Ok
17	PTOXICC500	PL092667.D	28 Oct 2024 17:23	AR\AJ	Ok
18	PTOXICC250	PL092668.D	28 Oct 2024 17:37	AR\AJ	Ok
19	PTOXICC100	PL092669.D	28 Oct 2024 17:50	AR\AJ	Ok,M
20	PSTDICV050	PL092670.D	28 Oct 2024 18:03	AR\AJ	Ok
21	PCHLORICV500	PL092671.D	28 Oct 2024 18:30	AR\AJ	Ok

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Supervise By	Ankita	Supervise On	10/29/2024 10:02:30 AM		
SubDirectory	PL102824	HP Acquire Method		HP Processing Method	pl102824 8081

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Tune/Reschk	PP23793,PP23517
Initial Calibration Stds	PP23673,PP23674,PP23675,PP23676,PP23677,PP23678,PP23679,PP23680,PP23681,PP23682,PP23683
CCC	PP23686,PP23690,PP23695
Internal Standard/PEM	
ICV/I.BLK	PP23687,PP23693,PP23698
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	PTOXICV500	PL092672.D	28 Oct 2024 18:57	AR\AJ	Ok
23	I.BLK	PL092673.D	28 Oct 2024 19:24	AR\AJ	Ok
24	PEM	PL092674.D	28 Oct 2024 19:37	AR\AJ	Ok,M
25	PSTDCCC050	PL092675.D	28 Oct 2024 19:51	AR\AJ	Ok,M
26	PB164460BL	PL092676.D	28 Oct 2024 20:04	AR\AJ	Ok,M
27	PB164460BS	PL092677.D	28 Oct 2024 20:17	AR\AJ	Ok,M
28	P4575-01	PL092678.D	28 Oct 2024 20:31	AR\AJ	Ok,M
29	P4566-01	PL092679.D	28 Oct 2024 20:44	AR\AJ	Ok,M
30	P4567-01	PL092680.D	28 Oct 2024 20:57	AR\AJ	Ok,M
31	P4567-05	PL092681.D	28 Oct 2024 21:11	AR\AJ	Ok
32	P4567-09	PL092682.D	28 Oct 2024 21:24	AR\AJ	Ok,M
33	P4574-01	PL092683.D	28 Oct 2024 21:38	AR\AJ	Ok,M
34	P4574-04	PL092684.D	28 Oct 2024 21:51	AR\AJ	Ok,M
35	P4577-01	PL092685.D	28 Oct 2024 22:04	AR\AJ	Ok,M
36	P4561-01	PL092686.D	28 Oct 2024 22:18	AR\AJ	Ok,M
37	P4561-01MS	PL092687.D	28 Oct 2024 22:31	AR\AJ	Ok,M
38	P4561-01MSD	PL092688.D	28 Oct 2024 22:44	AR\AJ	Ok,M
39	P4561-05	PL092689.D	28 Oct 2024 22:58	AR\AJ	Ok,M
40	I.BLK	PL092690.D	28 Oct 2024 23:11	AR\AJ	Ok,M
41	PSTDCCC050	PL092691.D	29 Oct 2024 00:32	AR\AJ	Ok,M

M : Manual Integration

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Instrument ID: ECD_L

Daily Analysis Runlog For Sequence/QCBatch ID # PL110124

Review By	Abdul	Review On	11/1/2024 5:37:46 PM		
Supervise By	Ankita	Supervise On	11/4/2024 10:11:38 AM		
SubDirectory	PL110124	HP Acquire Method		HP Processing Method	pl102824 8081

STD. NAME	STD REF.#
Tune/Reschk	PP23793,PP23517
Initial Calibration Stds	PP23673,PP23674,PP23675,PP23676,PP23677,PP23678,PP23679,PP23680,PP23681,PP23682,PP23683
CCC	PP23686,PP23690,PP23695
Internal Standard/PEM	
ICV/I.BLK	PP23687,PP23693,PP23698
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	HEXANE	PL092786.D	01 Nov 2024 08:37	AR\AJ	Ok
2	I.BLK	PL092787.D	01 Nov 2024 08:51	AR\AJ	Ok
3	PEM	PL092788.D	01 Nov 2024 11:43	AR\AJ	Ok,M
4	PSTDCCC050	PL092789.D	01 Nov 2024 11:56	AR\AJ	Ok
5	P4617-04	PL092790.D	01 Nov 2024 12:10	AR\AJ	Ok
6	P4617-04MS	PL092791.D	01 Nov 2024 12:24	AR\AJ	Ok,M
7	P4617-04MSD	PL092792.D	01 Nov 2024 12:38	AR\AJ	Ok,M
8	PB164579BL	PL092793.D	01 Nov 2024 12:52	AR\AJ	Ok
9	PB164579BS	PL092794.D	01 Nov 2024 13:05	AR\AJ	Ok
10	PB164522TB	PL092795.D	01 Nov 2024 13:19	AR\AJ	Ok
11	P4495-20	PL092796.D	01 Nov 2024 13:33	AR\AJ	Dilution
12	P4495-20DL	PL092797.D	01 Nov 2024 13:47	AR\AJ	Dilution
13	P4495-20DL2	PL092798.D	01 Nov 2024 14:01	AR\AJ	Ok,M
14	I.BLK	PL092799.D	01 Nov 2024 14:15	AR\AJ	Ok
15	PSTDCCC050	PL092800.D	01 Nov 2024 14:29	AR\AJ	Ok
16	PB164592BL	PL092801.D	01 Nov 2024 14:47	AR\AJ	Ok
17	PB164592BS	PL092802.D	01 Nov 2024 15:01	AR\AJ	Ok
18	PB164579BS	PL092803.D	01 Nov 2024 15:14	AR\AJ	Ok,M
19	P4645-01	PL092804.D	01 Nov 2024 15:29	AR\AJ	Ok,M
20	P4659-01	PL092805.D	01 Nov 2024 15:43	AR\AJ	Ok,M
21	P4663-02	PL092806.D	01 Nov 2024 15:56	AR\AJ	Ok,M

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Supervise By	Ankita	Supervise On	11/4/2024 10:11:38 AM		
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STD. NAME	STD REF.#
Tune/Reschk	PP23793,PP23517
Initial Calibration Stds	PP23673,PP23674,PP23675,PP23676,PP23677,PP23678,PP23679,PP23680,PP23681,PP23682,PP23683
CCC	PP23686,PP23690,PP23695
Internal Standard/PEM	
ICV/I.BLK	PP23687,PP23693,PP23698
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	P4663-04	PL092807.D	01 Nov 2024 16:10	AR\AJ	Ok,M
23	P4663-06	PL092808.D	01 Nov 2024 16:24	AR\AJ	Ok
24	P4663-08	PL092809.D	01 Nov 2024 16:38	AR\AJ	Ok,M
25	P4663-08MS	PL092810.D	01 Nov 2024 16:52	AR\AJ	Ok,M
26	P4663-08MSD	PL092811.D	01 Nov 2024 17:06	AR\AJ	Ok,M
27	I.BLK	PL092812.D	01 Nov 2024 17:24	AR\AJ	Ok
28	PSTDCCC050	PL092813.D	01 Nov 2024 17:38	AR\AJ	Ok

M : Manual Integration

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Instrument ID: ECD_L

Daily Analysis Runlog For Sequence/QCBatch ID # PL102824

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CCC	PP23686,PP23690,PP23695
Internal Standard/PEM	
ICV/I.BLK	PP23687,PP23693,PP23698
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	HEXANE	HEXANE	PL092651.D	28 Oct 2024 13:41		AR\AJ	Ok
2	I.BLK	I.BLK	PL092652.D	28 Oct 2024 13:55		AR\AJ	Ok
3	PEM	PEM	PL092653.D	28 Oct 2024 14:16		AR\AJ	Ok,M
4	RESCHK	RESCHK	PL092654.D	28 Oct 2024 14:29		AR\AJ	Ok
5	PSTDICC100	PSTDICC100	PL092655.D	28 Oct 2024 14:43		AR\AJ	Ok
6	PSTDICC075	PSTDICC075	PL092656.D	28 Oct 2024 14:56		AR\AJ	Ok
7	PSTDICC050	PSTDICC050	PL092657.D	28 Oct 2024 15:09		AR\AJ	Ok
8	PSTDICC025	PSTDICC025	PL092658.D	28 Oct 2024 15:23		AR\AJ	Ok
9	PSTDICC005	PSTDICC005	PL092659.D	28 Oct 2024 15:36		AR\AJ	Ok,M
10	PCHLORICC1000	PCHLORICC1000	PL092660.D	28 Oct 2024 15:49		AR\AJ	Ok
11	PCHLORICC750	PCHLORICC750	PL092661.D	28 Oct 2024 16:03		AR\AJ	Ok
12	PCHLORICC500	PCHLORICC500	PL092662.D	28 Oct 2024 16:16		AR\AJ	Ok
13	PCHLORICC250	PCHLORICC250	PL092663.D	28 Oct 2024 16:30		AR\AJ	Ok
14	PCHLORICC050	PCHLORICC050	PL092664.D	28 Oct 2024 16:43		AR\AJ	Ok
15	PTOXICC1000	PTOXICC1000	PL092665.D	28 Oct 2024 16:56		AR\AJ	Ok
16	PTOXICC750	PTOXICC750	PL092666.D	28 Oct 2024 17:10		AR\AJ	Ok
17	PTOXICC500	PTOXICC500	PL092667.D	28 Oct 2024 17:23		AR\AJ	Ok
18	PTOXICC250	PTOXICC250	PL092668.D	28 Oct 2024 17:37		AR\AJ	Ok

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Instrument ID: ECD_L

Daily Analysis Runlog For Sequence/QCBatch ID # PL102824

Review By	Abdul	Review On	10/29/2024 9:09:59 AM		
Supervise By	Ankita	Supervise On	10/29/2024 10:02:30 AM		
SubDirectory	PL102824	HP Acquire Method		HP Processing Method	pl102824 8081

STD. NAME	STD REF.#
Tune/Reschk	PP23793,PP23517
Initial Calibration Stds	PP23673,PP23674,PP23675,PP23676,PP23677,PP23678,PP23679,PP23680,PP23681,PP23682,PP23683
CCC	PP23686,PP23690,PP23695
Internal Standard/PEM	
ICV/I.BLK	PP23687,PP23693,PP23698
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	PTOXICC100	PTOXICC100	PL092669.D	28 Oct 2024 17:50		AR\AJ	Ok,M
20	PSTDICV050	ICVPL102824	PL092670.D	28 Oct 2024 18:03		AR\AJ	Ok
21	PCHLORICV500	ICVPL102824CHLOR	PL092671.D	28 Oct 2024 18:30		AR\AJ	Ok
22	PTOXICV500	ICVPL102824TOX	PL092672.D	28 Oct 2024 18:57		AR\AJ	Ok
23	I.BLK	I.BLK	PL092673.D	28 Oct 2024 19:24		AR\AJ	Ok
24	PEM	PEM	PL092674.D	28 Oct 2024 19:37		AR\AJ	Ok,M
25	PSTDCCC050	PSTDCCC050	PL092675.D	28 Oct 2024 19:51		AR\AJ	Ok,M
26	PB164460BL	PB164460BL	PL092676.D	28 Oct 2024 20:04		AR\AJ	Ok,M
27	PB164460BS	PB164460BS	PL092677.D	28 Oct 2024 20:17		AR\AJ	Ok,M
28	P4575-01	PL-02-102424	PL092678.D	28 Oct 2024 20:31		AR\AJ	Ok,M
29	P4566-01	HD-01-102524	PL092679.D	28 Oct 2024 20:44		AR\AJ	Ok,M
30	P4567-01	WC-1	PL092680.D	28 Oct 2024 20:57		AR\AJ	Ok,M
31	P4567-05	WC-2	PL092681.D	28 Oct 2024 21:11		AR\AJ	Ok
32	P4567-09	WC-3	PL092682.D	28 Oct 2024 21:24		AR\AJ	Ok,M
33	P4574-01	GRAVEL-1	PL092683.D	28 Oct 2024 21:38		AR\AJ	Ok,M
34	P4574-04	GRAVEL-2	PL092684.D	28 Oct 2024 21:51		AR\AJ	Ok,M
35	P4577-01	TR-05-102524	PL092685.D	28 Oct 2024 22:04		AR\AJ	Ok,M
36	P4561-01	BP-F-19	PL092686.D	28 Oct 2024 22:18		AR\AJ	Ok,M
37	P4561-01MS	BP-F-19MS	PL092687.D	28 Oct 2024 22:31		AR\AJ	Ok,M

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Instrument ID: ECD_L

Daily Analysis Runlog For Sequence/QCBatch ID # PL102824

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Supervise By	Ankita	Supervise On	10/29/2024 10:02:30 AM		
SubDirectory	PL102824	HP Acquire Method		HP Processing Method	pl102824 8081

STD. NAME	STD REF.#
Tune/Reschk	PP23793,PP23517
Initial Calibration Stds	PP23673,PP23674,PP23675,PP23676,PP23677,PP23678,PP23679,PP23680,PP23681,PP23682,PP23683
CCC	PP23686,PP23690,PP23695
Internal Standard/PEM	
ICV/I.BLK	PP23687,PP23693,PP23698
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

38	P4561-01MSD	BP-F-19MSD	PL092688.D	28 Oct 2024 22:44		AR\AJ	Ok,M
39	P4561-05	BP-F-18	PL092689.D	28 Oct 2024 22:58		AR\AJ	Ok,M
40	I.BLK	I.BLK	PL092690.D	28 Oct 2024 23:11		AR\AJ	Ok,M
41	PSTDCCC050	PSTDCCC050	PL092691.D	29 Oct 2024 00:32		AR\AJ	Ok,M

M : Manual Integration

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Instrument ID: ECD_L

Daily Analysis Runlog For Sequence/QCBatch ID # PL110124

Review By	Abdul	Review On	11/1/2024 5:37:46 PM		
Supervise By	Ankita	Supervise On	11/4/2024 10:11:38 AM		
SubDirectory	PL110124	HP Acquire Method		HP Processing Method	pl102824 8081

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Tune/Reschk	PP23793,PP23517
Initial Calibration Stds	PP23673,PP23674,PP23675,PP23676,PP23677,PP23678,PP23679,PP23680,PP23681,PP23682,PP23683
CCC	PP23686,PP23690,PP23695
Internal Standard/PEM	
ICV/I.BLK	PP23687,PP23693,PP23698
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	HEXANE	HEXANE	PL092786.D	01 Nov 2024 08:37		AR\AJ	Ok
2	I.BLK	I.BLK	PL092787.D	01 Nov 2024 08:51		AR\AJ	Ok
3	PEM	PEM	PL092788.D	01 Nov 2024 11:43		AR\AJ	Ok,M
4	PSTDCCC050	PSTDCCC050	PL092789.D	01 Nov 2024 11:56		AR\AJ	Ok
5	P4617-04	CONCRETE-PILE	PL092790.D	01 Nov 2024 12:10		AR\AJ	Ok
6	P4617-04MS	CONCRETE-PILEMS	PL092791.D	01 Nov 2024 12:24	TCMX high in 1st column	AR\AJ	Ok,M
7	P4617-04MSD	CONCRETE-PILEMSD	PL092792.D	01 Nov 2024 12:38		AR\AJ	Ok,M
8	PB164579BL	PB164579BL	PL092793.D	01 Nov 2024 12:52		AR\AJ	Ok
9	PB164579BS	PB164579BS	PL092794.D	01 Nov 2024 13:05		AR\AJ	Ok
10	PB164522TB	PB164522TB	PL092795.D	01 Nov 2024 13:19		AR\AJ	Ok
11	P4495-20	PT-PEST-SOIL	PL092796.D	01 Nov 2024 13:33	Need dilution	AR\AJ	Dilution
12	P4495-20DL	PT-PEST-SOILDL	PL092797.D	01 Nov 2024 13:47	Need dilution	AR\AJ	Dilution
13	P4495-20DL2	PT-PEST-SOILDL2	PL092798.D	01 Nov 2024 14:01		AR\AJ	Ok,M
14	I.BLK	I.BLK	PL092799.D	01 Nov 2024 14:15		AR\AJ	Ok
15	PSTDCCC050	PSTDCCC050	PL092800.D	01 Nov 2024 14:29		AR\AJ	Ok
16	PB164592BL	PB164592BL	PL092801.D	01 Nov 2024 14:47		AR\AJ	Ok
17	PB164592BS	PB164592BS	PL092802.D	01 Nov 2024 15:01		AR\AJ	Ok
18	PB164579BS	PB164579BS	PL092803.D	01 Nov 2024 15:14		AR\AJ	Ok,M

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Instrument ID: ECD_L

Daily Analysis Runlog For Sequence/QCBatch ID # PL110124

Review By	Abdul	Review On	11/1/2024 5:37:46 PM		
Supervise By	Ankita	Supervise On	11/4/2024 10:11:38 AM		
SubDirectory	PL110124	HP Acquire Method		HP Processing Method	pl102824 8081

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CCC	PP23686,PP23690,PP23695
Internal Standard/PEM	
ICV/I.BLK	PP23687,PP23693,PP23698
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	P4645-01	Z-02-WC	PL092804.D	01 Nov 2024 15:29		AR\AJ	Ok,M
20	P4659-01	MH-2	PL092805.D	01 Nov 2024 15:43		AR\AJ	Ok,M
21	P4663-02	TENNANT-PAD-2-3-ST	PL092806.D	01 Nov 2024 15:56		AR\AJ	Ok,M
22	P4663-04	RES-BUILDING-PAD-N	PL092807.D	01 Nov 2024 16:10		AR\AJ	Ok,M
23	P4663-06	RES-BUILDING-PAD-N	PL092808.D	01 Nov 2024 16:24		AR\AJ	Ok
24	P4663-08	RES-BUILDING-PAD-N	PL092809.D	01 Nov 2024 16:38		AR\AJ	Ok,M
25	P4663-08MS	RES-BUILDING-PAD-N	PL092810.D	01 Nov 2024 16:52	Comp#7 recovery fail	AR\AJ	Ok,M
26	P4663-08MSD	RES-BUILDING-PAD-N	PL092811.D	01 Nov 2024 17:06	Comp#7 recovery fail	AR\AJ	Ok,M
27	I.BLK	I.BLK	PL092812.D	01 Nov 2024 17:24		AR\AJ	Ok
28	PSTDCCC050	PSTDCCC050	PL092813.D	01 Nov 2024 17:38		AR\AJ	Ok

M : Manual Integration

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EXTRACTION LOGPAGE

PB164592

SOP ID:	M3541-ASE Extraction-14				
Clean Up SOP #:	Florisil			**Extraction Start Date :**	11/01/2024
Matrix :	Solid			**Extraction Start Time :**	09:12
Weigh By:	EH	**Extraction By:**	RJ	**Extraction End Date :**	11/01/2024
Balance check:	RJ	**Filter By:**	RJ	**Extraction End Time :**	14:00
Balance ID:	EX-SC-2	**pH Meter ID:**	N/A	**Concentration By:**	EH
pH Strip Lot#:	N/A	**Hood ID:**	3,7	**Supervisor By :**	rajesh

Extraction Method: ☐ Seperatory Funnel ☐ Continious Liquid/Liquid ☐ Sonication ☐ Waste Dilution ☑ Soxhlet

Standared Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Spike Sol 1	1.0ML	500 PPB	PP23638
Surrogate	1.0ML	200 PPB	PP23858
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	EP2539
Baked Na2SO4	N/A	EP2554
Sand	N/A	E2865
Hexane	N/A	E3819
Florisil	N/A	E3806
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
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 BTS721. P 4663 All samples Added in batch at 11:00.

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
11/01/24	RR (Ext Lab)	TL-PEST-PCB
14:05	**Preparation Group**	**Analysis Group**

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PrepBatch ID : PB164592

Analytical Method: M3541-ASE Extraction-14

Concentration Date: 11/01/2024

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB164592BL	PBLK592	Pesticide-TCL	30.01	N/A	ritesh	RUPESH	10			U1-1
PB164592BS	PLCS592	Pesticide-TCL	30.03	N/A	ritesh	RUPESH	10			2
P4645-01	Z-02-WC	Pesticide-TCL	30.04	N/A	ritesh	RUPESH	10	D		3
P4659-01	MH-2	Pesticide-TCL	30.09	N/A	ritesh	RUPESH	10	D		4
P4663-02	TENNANT-PAD-2-3-STOCKPILE	Pesticide-TCL	30.02	N/A	ritesh	RUPESH	10	D		5
P4663-04	RES-BUILDING-PAD-NO-11	Pesticide-TCL	30.08	N/A	ritesh	RUPESH	10	D		6
P4663-06	RES-BUILDING-PAD-NO-3	Pesticide-TCL	30.10	N/A	ritesh	RUPESH	10	D		U5-1
P4663-08	RES-BUILDING-PAD-NO-2	Pesticide-TCL	30.06	N/A	ritesh	RUPESH	10	D		2
P4663-08MS	RES-BUILDING-PAD-NO-2 MS	Pesticide-TCL	30.02	N/A	ritesh	RUPESH	10	D		3
P4663-08MSD	RES-BUILDING-PAD-NO-2 MSD	Pesticide-TCL	30.04	N/A	ritesh	RUPESH	10	D		4

* **Extracts relinquished on the same date as received.**

11/01/24

P4663

WORKLIST(Hardcopy Internal Chain)

WorkList Name : P4663 **WorkList ID :** 185017 **Department :** Extraction **Date :** 11-01-2024 11:00:04

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4663-02	TENNANT-PAD-2-3-STOCKPIL	Solid	PCB	Cool 4 deg C	UNIO02	K41	10/31/2024	8082A
P4663-02	TENNANT-PAD-2-3-STOCKPIL	Solid	Pesticide-TCL	Cool 4 deg C	UNIO02	K41	10/31/2024	8081B
P4663-02	TENNANT-PAD-2-3-STOCKPIL	Solid	SVOCMS Group1	Cool 4 deg C	UNIO02	K41	10/31/2024	8270E
P4663-04	RES-BUILDING-PAD-NO-11	Solid	PCB	Cool 4 deg C	UNIO02	K41	10/31/2024	8082A
P4663-04	RES-BUILDING-PAD-NO-11	Solid	Pesticide-TCL	Cool 4 deg C	UNIO02	K41	10/31/2024	8081B
P4663-04	RES-BUILDING-PAD-NO-11	Solid	SVOCMS Group1	Cool 4 deg C	UNIO02	K41	10/31/2024	8270E
P4663-06	RES-BUILDING-PAD-NO-3	Solid	PCB	Cool 4 deg C	UNIO02	K41	10/31/2024	8082A
P4663-06	RES-BUILDING-PAD-NO-3	Solid	Pesticide-TCL	Cool 4 deg C	UNIO02	K41	10/31/2024	8081B
P4663-06	RES-BUILDING-PAD-NO-3	Solid	SVOCMS Group1	Cool 4 deg C	UNIO02	K41	10/31/2024	8270E
P4663-08	RES-BUILDING-PAD-NO-2	Solid	PCB	Cool 4 deg C	UNIO02	K41	10/31/2024	8082A
P4663-08	RES-BUILDING-PAD-NO-2	Solid	Pesticide-TCL	Cool 4 deg C	UNIO02	K41	10/31/2024	8081B
P4663-08	RES-BUILDING-PAD-NO-2	Solid	SVOCMS Group1	Cool 4 deg C	UNIO02	K41	10/31/2024	8270E

354 of 995

Date/Time 11/01/24 11:00

Raw Sample Received by: RJ (Eurofins)

Raw Sample Relinquished by: [signature]

Date/Time 11/01/24 11:15

Raw Sample Received by: [signature]

Raw Sample Relinquished by: RJ (Eurofins)

11/5/24 9:12

WORKLIST(Hardcopy Internal Chain)

WorkList Name : P4645PEST **WorkList ID :** 185005 **Department :** Extraction **Date :** 11-01-2024 08:35:19

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4645-01	Z-02-WC	Solid	Pesticide-TCL	Cool 4 deg C	PSEG03	K63	10/31/2024	8081B
P4659-01	MH-2	Solid	Pesticide-TCL	Cool 4 deg C	PSEG03	K61	10/31/2024	8081B

Date/Time 11/01/24 9:10
Raw Sample Received by: RJ (Set lab)
Raw Sample Relinquished by: JD CSM

Date/Time 11/01/24 9:25
Raw Sample Received by: JD CSM
Raw Sample Relinquished by: RJ (Set lab)

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

LAB CHRONICLE

OrderID:	P4663	**OrderDate:**	10/31/2024 3:05:00 PM
Client:	Union Paving & Construction Company	**Project:**	Rt. 10 Whippany
Contact:	Gregory Butler	**Location:**	K41,VOA Ref. #2 Soil

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P4663-02	**TENNANT-PAD-2-3-STOCKPILE**	**SOIL**			**10/31/24**			**10/31/24**
			Herbicide	8151A		11/04/24	11/05/24	
			PCB	8082A		11/01/24	11/01/24	
			Pesticide-TCL	8081B		11/01/24	11/01/24	
			TPH GC	8015D		11/01/24	11/01/24	
			EPH_NF	NJEPH		11/01/24	11/02/24	
P4663-04	**RES-BUILDING-PAD-NO-11**	**SOIL**			**10/31/24**			**10/31/24**
			Herbicide	8151A		11/04/24	11/05/24	
			PCB	8082A		11/01/24	11/01/24	
			Pesticide-TCL	8081B		11/01/24	11/01/24	
			TPH GC	8015D		11/01/24	11/01/24	
			EPH_NF	NJEPH		11/01/24	11/02/24	
P4663-06	**RES-BUILDING-PAD-NO-3**	**SOIL**			**10/31/24**			**10/31/24**
			Herbicide	8151A		11/04/24	11/05/24	
			PCB	8082A		11/01/24	11/01/24	
			Pesticide-TCL	8081B		11/01/24	11/01/24	
			TPH GC	8015D		11/01/24	11/01/24	
			EPH_NF	NJEPH		11/01/24	11/02/24	
P4663-08	**RES-BUILDING-PAD-NO-2**	**SOIL**			**10/31/24**			**10/31/24**
			Herbicide	8151A		11/04/24	11/05/24	
			PCB	8082A		11/01/24	11/01/24	
			Pesticide-TCL	8081B		11/01/24	11/01/24	
			TPH GC	8015D		11/01/24	11/01/24	
			EPH_NF	NJEPH		11/01/24	11/02/24	

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Fax : 908 789 8922

Hit Summary Sheet
SW-846

SDG No.: P4663 **Order ID:** P4663

Client: Union Paving & Construction Company **Project ID:** Rt. 10 Whippany

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:	Union Paving & Construction Company	Date Collected:	10/31/24
Project:	Rt. 10 Whippany	Date Received:	10/31/24
Client Sample ID:	TENNANT-PAD-2-3-STOCKPILE	SDG No.:	P4663
Lab Sample ID:	P4663-02	Matrix:	SOIL
Analytical Method:	SW8082A	% Solid:	90.9 Decanted:
Sample Wt/Vol:	30.02 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP068348.D	1	11/01/24 09:09	11/01/24 16:00	PB164590

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	3.70	U	3.70	18.7	ug/kg
11104-28-2	Aroclor-1221	7.00	U	7.00	18.7	ug/kg
11141-16-5	Aroclor-1232	3.70	U	3.70	18.7	ug/kg
53469-21-9	Aroclor-1242	3.70	U	3.70	18.7	ug/kg
12672-29-6	Aroclor-1248	8.70	U	8.70	18.7	ug/kg
11097-69-1	Aroclor-1254	3.00	U	3.00	18.7	ug/kg
37324-23-5	Aroclor-1262	5.00	U	5.00	18.7	ug/kg
11100-14-4	Aroclor-1268	3.80	U	3.80	18.7	ug/kg
11096-82-5	Aroclor-1260	3.20	U	3.20	18.7	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	23.5		30 (32) - 150 (144)	118%	SPK: 20
2051-24-3	Decachlorobiphenyl	22.4		30 (32) - 150 (175)	112%	SPK: 20

Comments:

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

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

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

Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	10/31/24
Project:	Rt. 10 Whippany	Date Received:	10/31/24
Client Sample ID:	RES-BUILDING-PAD-NO-11	SDG No.:	P4663
Lab Sample ID:	P4663-04	Matrix:	SOIL
Analytical Method:	SW8082A	% Solid:	91.7 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
PP068351.D	1	11/01/24 09:09	11/01/24 16:50	PB164590

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	3.70	U	3.70	18.5	ug/kg
11104-28-2	Aroclor-1221	7.00	U	7.00	18.5	ug/kg
11141-16-5	Aroclor-1232	3.70	U	3.70	18.5	ug/kg
53469-21-9	Aroclor-1242	3.70	U	3.70	18.5	ug/kg
12672-29-6	Aroclor-1248	8.60	U	8.60	18.5	ug/kg
11097-69-1	Aroclor-1254	3.00	U	3.00	18.5	ug/kg
37324-23-5	Aroclor-1262	5.00	U	5.00	18.5	ug/kg
11100-14-4	Aroclor-1268	3.70	U	3.70	18.5	ug/kg
11096-82-5	Aroclor-1260	3.20	U	3.20	18.5	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	22.8		30 (32) - 150 (144)	114%	SPK: 20
2051-24-3	Decachlorobiphenyl	19.8		30 (32) - 150 (175)	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

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

Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	10/31/24
Project:	Rt. 10 Whippany	Date Received:	10/31/24
Client Sample ID:	RES-BUILDING-PAD-NO-3	SDG No.:	P4663
Lab Sample ID:	P4663-06	Matrix:	SOIL
Analytical Method:	SW8082A	% Solid:	91.2 Decanted:
Sample Wt/Vol:	30.1 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
PP068352.D	1	11/01/24 09:09	11/01/24 17:06	PB164590

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	3.70	U	3.70	18.6	ug/kg
11104-28-2	Aroclor-1221	7.00	U	7.00	18.6	ug/kg
11141-16-5	Aroclor-1232	3.70	U	3.70	18.6	ug/kg
53469-21-9	Aroclor-1242	3.70	U	3.70	18.6	ug/kg
12672-29-6	Aroclor-1248	8.60	U	8.60	18.6	ug/kg
11097-69-1	Aroclor-1254	3.00	U	3.00	18.6	ug/kg
37324-23-5	Aroclor-1262	5.00	U	5.00	18.6	ug/kg
11100-14-4	Aroclor-1268	3.70	U	3.70	18.6	ug/kg
11096-82-5	Aroclor-1260	3.20	U	3.20	18.6	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	22.5		30 (32) - 150 (144)	113%	SPK: 20
2051-24-3	Decachlorobiphenyl	19.7		30 (32) - 150 (175)	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

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

Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	10/31/24
Project:	Rt. 10 Whippany	Date Received:	10/31/24
Client Sample ID:	RES-BUILDING-PAD-NO-2	SDG No.:	P4663
Lab Sample ID:	P4663-08	Matrix:	SOIL
Analytical Method:	SW8082A	% Solid:	91.3 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
PP068353.D	1	11/01/24 09:09	11/01/24 17:22	PB164590

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	3.70	U	3.70	18.6	ug/kg
11104-28-2	Aroclor-1221	7.00	U	7.00	18.6	ug/kg
11141-16-5	Aroclor-1232	3.70	U	3.70	18.6	ug/kg
53469-21-9	Aroclor-1242	3.70	U	3.70	18.6	ug/kg
12672-29-6	Aroclor-1248	8.60	U	8.60	18.6	ug/kg
11097-69-1	Aroclor-1254	3.00	U	3.00	18.6	ug/kg
37324-23-5	Aroclor-1262	5.00	U	5.00	18.6	ug/kg
11100-14-4	Aroclor-1268	3.70	U	3.70	18.6	ug/kg
11096-82-5	Aroclor-1260	3.20	U	3.20	18.6	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	18.5		30 (32) - 150 (144)	92%	SPK: 20
2051-24-3	Decachlorobiphenyl	16.9		30 (32) - 150 (175)	85%	SPK: 20

Comments:

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

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

QC SUMMARY

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

Surrogate Summary

SDG No.: P4663

Client: Union Paving & Construction Company

Analytical Method: 8082A

Lab Sample ID	Client ID	Parameter	Column	Spike	Result	Rec	Qual	Limits Low	Limits High
I.BLK-PP067586.D	PIBLK-PP067586.D	Tetrachloro-m-xylene	1	20	21.1	105		70 (60)	130 (140)
		Decachlorobiphenyl	1	20	23.6	118		70 (60)	130 (140)
		Tetrachloro-m-xylene	2	20	22.1	110		70 (60)	130 (140)
		Decachlorobiphenyl	2	20	23.5	117		70 (60)	130 (140)
I.BLK-PP068343.D	PIBLK-PP068343.D	Tetrachloro-m-xylene	1	20	18.1	91		70 (60)	130 (140)
		Decachlorobiphenyl	1	20	20.5	103		70 (60)	130 (140)
		Tetrachloro-m-xylene	2	20	17.0	85		70 (60)	130 (140)
		Decachlorobiphenyl	2	20	19.0	95		70 (60)	130 (140)
PB164590BL	PB164590BL	Tetrachloro-m-xylene	1	20	20.9	104		30 (32)	150 (144)
		Decachlorobiphenyl	1	20	23.1	116		30 (32)	150 (175)
		Tetrachloro-m-xylene	2	20	19.2	96		30 (32)	150 (144)
		Decachlorobiphenyl	2	20	22.6	113		30 (32)	150 (175)
PB164590BS	PB164590BS	Tetrachloro-m-xylene	1	20	21.0	105		30 (32)	150 (144)
		Decachlorobiphenyl	1	20	23.3	117		30 (32)	150 (175)
		Tetrachloro-m-xylene	2	20	19.6	98		30 (32)	150 (144)
		Decachlorobiphenyl	2	20	22.1	111		30 (32)	150 (175)
P4663-02	TENNANT-PAD-2-3-STOCKPILE	Tetrachloro-m-xylene	1	20	23.5	118		30 (32)	150 (144)
		Decachlorobiphenyl	1	20	22.4	112		30 (32)	150 (175)
		Tetrachloro-m-xylene	2	20	21.8	109		30 (32)	150 (144)
		Decachlorobiphenyl	2	20	18.6	93		30 (32)	150 (175)
P4663-02MS	TENNANT-PAD-2-3-STOCKPILEM	Tetrachloro-m-xylene	1	20	21.4	107		30 (32)	150 (144)
		Decachlorobiphenyl	1	20	19.7	98		30 (32)	150 (175)
		Tetrachloro-m-xylene	2	20	19.9	99		30 (32)	150 (144)
		Decachlorobiphenyl	2	20	16.6	83		30 (32)	150 (175)
P4663-02MSD	TENNANT-PAD-2-3-STOCKPILEM	Tetrachloro-m-xylene	1	20	21.6	108		30 (32)	150 (144)
		Decachlorobiphenyl	1	20	19.2	96		30 (32)	150 (175)
		Tetrachloro-m-xylene	2	20	20.2	101		30 (32)	150 (144)
		Decachlorobiphenyl	2	20	16.5	82		30 (32)	150 (175)
P4663-04	RES-BUILDING-PAD-NO-11	Tetrachloro-m-xylene	1	20	22.8	114		30 (32)	150 (144)
		Decachlorobiphenyl	1	20	19.8	99		30 (32)	150 (175)
		Tetrachloro-m-xylene	2	20	21.3	106		30 (32)	150 (144)
		Decachlorobiphenyl	2	20	18.0	90		30 (32)	150 (175)
P4663-06	RES-BUILDING-PAD-NO-3	Tetrachloro-m-xylene	1	20	22.5	113		30 (32)	150 (144)
		Decachlorobiphenyl	1	20	19.7	99		30 (32)	150 (175)
		Tetrachloro-m-xylene	2	20	21.2	106		30 (32)	150 (144)
		Decachlorobiphenyl	2	20	18.1	90		30 (32)	150 (175)
P4663-08	RES-BUILDING-PAD-NO-2	Tetrachloro-m-xylene	1	20	18.5	92		30 (32)	150 (144)
		Decachlorobiphenyl	1	20	16.9	85		30 (32)	150 (175)
		Tetrachloro-m-xylene	2	20	17.2	86		30 (32)	150 (144)
		Decachlorobiphenyl	2	20	15.5	78		30 (32)	150 (175)
I.BLK-PP068358.D	PIBLK-PP068358.D	Tetrachloro-m-xylene	1	20	19.1	95		70 (60)	130 (140)

( ) = LABORATORY INHOUSE LIMIT

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

Surrogate Summary

SDG No.: P4663

Client: Union Paving & Construction Company

Analytical Method: 8082A

Lab Sample ID	Client ID	Parameter	Column	Spike	Result	Rec	Qual	Limits Low	Limits High
I.BLK-PP068358.D	PIBLK-PP068358.D	Decachlorobiphenyl	1	20	18.9	95		70 (60)	130 (140)
		Tetrachloro-m-xylene	2	20	17.1	86		70 (60)	130 (140)
		Decachlorobiphenyl	2	20	18.0	90		70 (60)	130 (140)

( ) = LABORATORY INHOUSE LIMIT

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Fax : 908 789 8922

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: P4663

Client: Union Paving & Construction Company

Analytical Method: 8082A **DataFile :** PP068349.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:	**TENNANT-PAD-2-3-STOCKPILEMS**											
P4663-02MS	AR1016	183	0	177	ug/kg	97				40 (55)	140 (146)	
	AR1260	183	0	145	ug/kg	79				40 (45)	140 (144)	

( ) = LABORATORY INHOUSE LIMIT

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Fax : 908 789 8922

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: P4663

Client: Union Paving & Construction Company

Analytical Method: 8082A **DataFile :** PP068350.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:	**TENNANT-PAD-2-3-STOCKPILEMSD**											
P4663-02MSD	AR1016	183	0	178	ug/kg	97		0		40 (55)	140 (146)	30 (20)
	AR1260	183	0	146	ug/kg	80		1		40 (45)	140 (144)	30 (20)

( ) = LABORATORY INHOUSE LIMIT

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Fax : 908 789 8922

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4663

Client: Union Paving & Construction Company

Analytical Method: 8082A **Datafile :** PP068345.D

Lab Sample ID	Parameter	Spike	Result	Units	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB164590BS	AR1016	166.5	157	ug/kg	94				40 (71)	140 (120)	
	AR1260	166.5	143	ug/kg	86				40 (65)	140 (130)	

( ) = LABORATORY INHOUSE LIMIT

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4C

PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB164590BL

Lab Name: CHEMTECH Contract: UNIO02

Lab Code: CHEM Case No.: P4663 SAS No.: P4663 SDG NO.: P4663

Lab Sample ID: PB164590BL Lab File ID: PP068344.D

Matrix: (soil/water) Solid Extraction: (Type)

Sulfur Cleanup: (Y/N) N Date Extracted: 11/01/2024

Date Analyzed (1): 11/01/2024 Date Analyzed (2): 11/01/2024

Time Analyzed (1): 14:55 Time Analyzed (2): 14:55

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
PB164590BS	PB164590BS	PP068345.D	11/01/2024	11/01/2024
TENNANT-PAD-2-3-STOCKPILE	P4663-02	PP068348.D	11/01/2024	11/01/2024
TENNANT-PAD-2-3-STOCKPILEMS	P4663-02MS	PP068349.D	11/01/2024	11/01/2024
TENNANT-PAD-2-3-STOCKPILEMSD	P4663-02MSD	PP068350.D	11/01/2024	11/01/2024
RES-BUILDING-PAD-NO-11	P4663-04	PP068351.D	11/01/2024	11/01/2024
RES-BUILDING-PAD-NO-3	P4663-06	PP068352.D	11/01/2024	11/01/2024
RES-BUILDING-PAD-NO-2	P4663-08	PP068353.D	11/01/2024	11/01/2024

COMMENTS:

QC SAMPLE DATA

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

Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	
Project:	Rt. 10 Whippany	Date Received:	
Client Sample ID:	PB164590BL	SDG No.:	P4663
Lab Sample ID:	PB164590BL	Matrix:	SOIL
Analytical Method:	SW8082A	% 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
PP068344.D	1	11/01/24 09:09	11/01/24 14:55	PB164590

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	3.40	U	3.40	17.0	ug/kg
11104-28-2	Aroclor-1221	6.40	U	6.40	17.0	ug/kg
11141-16-5	Aroclor-1232	3.40	U	3.40	17.0	ug/kg
53469-21-9	Aroclor-1242	3.40	U	3.40	17.0	ug/kg
12672-29-6	Aroclor-1248	7.90	U	7.90	17.0	ug/kg
11097-69-1	Aroclor-1254	2.70	U	2.70	17.0	ug/kg
37324-23-5	Aroclor-1262	4.60	U	4.60	17.0	ug/kg
11100-14-4	Aroclor-1268	3.40	U	3.40	17.0	ug/kg
11096-82-5	Aroclor-1260	2.90	U	2.90	17.0	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	20.9		30 (32) - 150 (144)	104%	SPK: 20
2051-24-3	Decachlorobiphenyl	23.1		30 (32) - 150 (175)	116%	SPK: 20

Comments:

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

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

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Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	10/08/24
Project:	Rt. 10 Whippany	Date Received:	10/08/24
Client Sample ID:	PIBLK-PP067586.D	SDG No.:	P4663
Lab Sample ID:	I.BLK-PP067586.D	Matrix:	WATER
Analytical Method:	SW8082A	% 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
PP067586.D	1		10/08/24	pp100824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	0.15	U	0.15	0.50	ug/L
11104-28-2	Aroclor-1221	0.23	U	0.23	0.50	ug/L
11141-16-5	Aroclor-1232	0.37	U	0.37	0.50	ug/L
53469-21-9	Aroclor-1242	0.16	U	0.16	0.50	ug/L
12672-29-6	Aroclor-1248	0.12	U	0.12	0.50	ug/L
11097-69-1	Aroclor-1254	0.11	U	0.11	0.50	ug/L
11096-82-5	Aroclor-1260	0.15	U	0.15	0.50	ug/L
37324-23-5	Aroclor-1262	0.14	U	0.14	0.50	ug/L
11100-14-4	Aroclor-1268	0.12	U	0.12	0.50	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	21.1		70 (60) - 130 (140)	105%	SPK: 20
2051-24-3	Decachlorobiphenyl	23.5		70 (60) - 130 (140)	117%	SPK: 20

Comments:

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() = Laboratory InHouse Limit

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Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	11/01/24
Project:	Rt. 10 Whippany	Date Received:	11/01/24
Client Sample ID:	PIBLK-PP068343.D	SDG No.:	P4663
Lab Sample ID:	I.BLK-PP068343.D	Matrix:	WATER
Analytical Method:	SW8082A	% 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
PP068343.D	1		11/01/24	PP110124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	0.15	U	0.15	0.50	ug/L
11104-28-2	Aroclor-1221	0.23	U	0.23	0.50	ug/L
11141-16-5	Aroclor-1232	0.37	U	0.37	0.50	ug/L
53469-21-9	Aroclor-1242	0.16	U	0.16	0.50	ug/L
12672-29-6	Aroclor-1248	0.12	U	0.12	0.50	ug/L
11097-69-1	Aroclor-1254	0.11	U	0.11	0.50	ug/L
11096-82-5	Aroclor-1260	0.15	U	0.15	0.50	ug/L
37324-23-5	Aroclor-1262	0.14	U	0.14	0.50	ug/L
11100-14-4	Aroclor-1268	0.12	U	0.12	0.50	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	17.0		70 (60) - 130 (140)	85%	SPK: 20
2051-24-3	Decachlorobiphenyl	19.0		70 (60) - 130 (140)	95%	SPK: 20

Comments:

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LOQ = Limit of Quantitation
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() = Laboratory InHouse Limit

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Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	11/01/24
Project:	Rt. 10 Whippany	Date Received:	11/01/24
Client Sample ID:	PIBLK-PP068358.D	SDG No.:	P4663
Lab Sample ID:	I.BLK-PP068358.D	Matrix:	WATER
Analytical Method:	SW8082A	% 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
PP068358.D	1		11/01/24	PP110124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	0.15	U	0.15	0.50	ug/L
11104-28-2	Aroclor-1221	0.23	U	0.23	0.50	ug/L
11141-16-5	Aroclor-1232	0.37	U	0.37	0.50	ug/L
53469-21-9	Aroclor-1242	0.16	U	0.16	0.50	ug/L
12672-29-6	Aroclor-1248	0.12	U	0.12	0.50	ug/L
11097-69-1	Aroclor-1254	0.11	U	0.11	0.50	ug/L
11096-82-5	Aroclor-1260	0.15	U	0.15	0.50	ug/L
37324-23-5	Aroclor-1262	0.14	U	0.14	0.50	ug/L
11100-14-4	Aroclor-1268	0.12	U	0.12	0.50	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	17.1		70 (60) - 130 (140)	86%	SPK: 20
2051-24-3	Decachlorobiphenyl	18.0		70 (60) - 130 (140)	90%	SPK: 20

Comments:

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Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	
Project:	Rt. 10 Whippany	Date Received:	
Client Sample ID:	PB164590BS	SDG No.:	P4663
Lab Sample ID:	PB164590BS	Matrix:	SOIL
Analytical Method:	SW8082A	% Solid:	100 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
PP068345.D	1	11/01/24 09:09	11/01/24 15:11	PB164590

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	157		3.40	17.0	ug/kg
11104-28-2	Aroclor-1221	6.40	U	6.40	17.0	ug/kg
11141-16-5	Aroclor-1232	3.40	U	3.40	17.0	ug/kg
53469-21-9	Aroclor-1242	3.40	U	3.40	17.0	ug/kg
12672-29-6	Aroclor-1248	7.90	U	7.90	17.0	ug/kg
11097-69-1	Aroclor-1254	2.70	U	2.70	17.0	ug/kg
37324-23-5	Aroclor-1262	4.60	U	4.60	17.0	ug/kg
11100-14-4	Aroclor-1268	3.40	U	3.40	17.0	ug/kg
11096-82-5	Aroclor-1260	143		2.90	17.0	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	21.0		30 (32) - 150 (144)	105%	SPK: 20
2051-24-3	Decachlorobiphenyl	23.3		30 (32) - 150 (175)	117%	SPK: 20

Comments:

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LOQ = Limit of Quantitation
MDL = Method Detection Limit
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Alliance TECHNICAL GROUP
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Fax : 908 789 8922

Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	10/31/24
Project:	Rt. 10 Whippany	Date Received:	10/31/24
Client Sample ID:	TENNANT-PAD-2-3-STOCKPILEMS	SDG No.:	P4663
Lab Sample ID:	P4663-02MS	Matrix:	SOIL
Analytical Method:	SW8082A	% Solid:	90.9 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
PP068349.D	1	11/01/24 09:09	11/01/24 16:17	PB164590

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	177		3.70	18.7	ug/kg
11104-28-2	Aroclor-1221	7.00	U	7.00	18.7	ug/kg
11141-16-5	Aroclor-1232	3.70	U	3.70	18.7	ug/kg
53469-21-9	Aroclor-1242	3.70	U	3.70	18.7	ug/kg
12672-29-6	Aroclor-1248	8.70	U	8.70	18.7	ug/kg
11097-69-1	Aroclor-1254	3.00	U	3.00	18.7	ug/kg
37324-23-5	Aroclor-1262	5.00	U	5.00	18.7	ug/kg
11100-14-4	Aroclor-1268	3.80	U	3.80	18.7	ug/kg
11096-82-5	Aroclor-1260	145		3.20	18.7	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	21.4		30 (32) - 150 (144)	107%	SPK: 20
2051-24-3	Decachlorobiphenyl	19.7		30 (32) - 150 (175)	98%	SPK: 20

Comments:

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Alliance TECHNICAL GROUP
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Fax : 908 789 8922

Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	10/31/24
Project:	Rt. 10 Whippany	Date Received:	10/31/24
Client Sample ID:	TENNANT-PAD-2-3-STOCKPILEMSD	SDG No.:	P4663
Lab Sample ID:	P4663-02MSD	Matrix:	SOIL
Analytical Method:	SW8082A	% Solid:	90.9 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
PP068350.D	1	11/01/24 09:09	11/01/24 16:33	PB164590

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	178		3.70	18.7	ug/kg
11104-28-2	Aroclor-1221	7.00	U	7.00	18.7	ug/kg
11141-16-5	Aroclor-1232	3.70	U	3.70	18.7	ug/kg
53469-21-9	Aroclor-1242	3.70	U	3.70	18.7	ug/kg
12672-29-6	Aroclor-1248	8.70	U	8.70	18.7	ug/kg
11097-69-1	Aroclor-1254	3.00	U	3.00	18.7	ug/kg
37324-23-5	Aroclor-1262	5.00	U	5.00	18.7	ug/kg
11100-14-4	Aroclor-1268	3.80	U	3.80	18.7	ug/kg
11096-82-5	Aroclor-1260	146		3.20	18.7	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	21.6		30 (32) - 150 (144)	108%	SPK: 20
2051-24-3	Decachlorobiphenyl	19.2		30 (32) - 150 (175)	96%	SPK: 20

Comments:

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CALIBRATION SUMMARY

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

RETENTION TIMES OF INITIAL CALIBRATION

Contract: UNIO02

Lab Code: CHEM **Case No.:** P4663 **SAS No.:** P4663 **SDG NO.:** P4663

Instrument ID: ECD_P **Calibration Date(s):** 10/08/2024 10/08/2024

Calibration Times: 16:30 23:46

GC Column: ZB-MR1 ID: 0.32 (mm)

LAB FILE ID: RT 1000 = PP067587.D RT 750 = PP067588.D

RT 500 = PP067589.D RT 250 = PP067590.D RT 050 = PP067591.D

COMPOUND		RT 1000	RT 750	RT 500	RT 250	RT 050	MEAN RT	RT WINDOW FROM	RT WINDOW TO
Aroclor-1016-1	(1)	5.92	5.92	5.92	5.92	5.92	5.92	5.82	6.02
Aroclor-1016-2	(2)	5.94	5.94	5.94	5.94	5.94	5.94	5.84	6.04
Aroclor-1016-3	(3)	6.00	6.00	6.01	6.00	6.01	6.00	5.90	6.10
Aroclor-1016-4	(4)	6.10	6.10	6.10	6.10	6.10	6.10	6.00	6.20
Aroclor-1016-5	(5)	6.40	6.40	6.40	6.40	6.40	6.40	6.30	6.50
Aroclor-1260-1	(1)	7.52	7.52	7.52	7.52	7.52	7.52	7.42	7.62
Aroclor-1260-2	(2)	7.77	7.77	7.78	7.77	7.77	7.77	7.67	7.87
Aroclor-1260-3	(3)	8.13	8.14	8.14	8.14	8.14	8.14	8.04	8.24
Aroclor-1260-4	(4)	8.37	8.37	8.38	8.37	8.37	8.37	8.27	8.47
Aroclor-1260-5	(5)	8.71	8.71	8.71	8.71	8.71	8.71	8.61	8.81
Decachlorobiphenyl		10.67	10.67	10.67	10.67	10.67	10.67	10.57	10.77
Tetrachloro-m-xylene		4.75	4.75	4.76	4.75	4.76	4.75	4.65	4.85
Aroclor-1242-1	(1)	5.92	5.92	5.92	5.92	5.92	5.92	5.82	6.02
Aroclor-1242-2	(2)	5.94	5.94	5.94	5.94	5.94	5.94	5.84	6.04
Aroclor-1242-3	(3)	6.01	6.01	6.00	6.01	6.01	6.01	5.91	6.11
Aroclor-1242-4	(4)	6.10	6.10	6.10	6.10	6.10	6.10	6.00	6.20
Aroclor-1242-5	(5)	6.84	6.84	6.84	6.84	6.84	6.84	6.74	6.94
Decachlorobiphenyl		10.67	10.67	10.67	10.67	10.67	10.67	10.57	10.77
Tetrachloro-m-xylene		4.76	4.76	4.75	4.76	4.75	4.75	4.65	4.85
Aroclor-1248-1	(1)	5.92	5.92	5.92	5.92	5.92	5.92	5.82	6.02
Aroclor-1248-2	(2)	6.19	6.19	6.19	6.19	6.19	6.19	6.09	6.29
Aroclor-1248-3	(3)	6.40	6.40	6.40	6.40	6.40	6.40	6.30	6.50
Aroclor-1248-4	(4)	6.80	6.80	6.80	6.80	6.80	6.80	6.70	6.90
Aroclor-1248-5	(5)	6.84	6.84	6.84	6.84	6.84	6.84	6.74	6.94
Decachlorobiphenyl		10.67	10.67	10.67	10.67	10.66	10.67	10.57	10.77
Tetrachloro-m-xylene		4.75	4.75	4.75	4.75	4.75	4.75	4.65	4.85
Aroclor-1254-1	(1)	6.77	6.77	6.77	6.77	6.77	6.77	6.67	6.87
Aroclor-1254-2	(2)	6.99	6.99	6.99	6.99	6.99	6.99	6.89	7.09
Aroclor-1254-3	(3)	7.36	7.36	7.35	7.36	7.36	7.36	7.26	7.46
Aroclor-1254-4	(4)	7.64	7.64	7.64	7.64	7.64	7.64	7.54	7.74
Aroclor-1254-5	(5)	8.06	8.06	8.06	8.06	8.06	8.06	7.96	8.16
Decachlorobiphenyl		10.67	10.67	10.67	10.67	10.66	10.67	10.57	10.77
Tetrachloro-m-xylene		4.76	4.75	4.75	4.75	4.75	4.75	4.65	4.85
Aroclor-1268-1	(1)	9.05	9.04	9.04	9.04	9.04	9.04	8.94	9.14
Aroclor-1268-2	(2)	9.15	9.14	9.14	9.14	9.14	9.14	9.04	9.24
Aroclor-1268-3	(3)	9.40	9.39	9.40	9.39	9.40	9.40	9.30	9.50
Aroclor-1268-4	(4)	9.84	9.84	9.84	9.84	9.84	9.84	9.74	9.94
Aroclor-1268-5	(5)	10.30	10.29	10.29	10.29	10.29	10.29	10.19	10.39

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RETENTION TIMES OF INITIAL CALIBRATION

Decachlorobiphenyl	10.67	10.67	10.67	10.67	10.67	10.67	10.57	10.77
Tetrachloro-m-xylene	4.76	4.75	4.75	4.75	4.75	4.75	4.65	4.85

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RETENTION TIMES OF INITIAL CALIBRATION

Contract: UNIO02

Lab Code: CHEM **Case No.:** P4663 **SAS No.:** P4663 **SDG NO.:** P4663

Instrument ID: ECD_P **Calibration Date(s):** 10/08/2024 10/08/2024

Calibration Times: 16:30 23:46

GC Column: ZB-MR2 ID: 0.32 (mm)

LAB FILE ID: RT 1000 = PP067587.D RT 750 = PP067588.D

RT 500 = PP067589.D RT 250 = PP067590.D RT 050 = PP067591.D

COMPOUND		RT 1000	RT 750	RT 500	RT 250	RT 050	MEAN RT	RT WINDOW FROM	RT WINDOW TO
Aroclor-1016-1	(1)	5.16	5.16	5.16	5.16	5.16	5.16	5.06	5.26
Aroclor-1016-2	(2)	5.18	5.18	5.18	5.18	5.18	5.18	5.08	5.28
Aroclor-1016-3	(3)	5.36	5.36	5.36	5.36	5.36	5.36	5.26	5.46
Aroclor-1016-4	(4)	5.40	5.40	5.40	5.40	5.40	5.40	5.30	5.50
Aroclor-1016-5	(5)	5.62	5.62	5.62	5.62	5.62	5.62	5.52	5.72
Aroclor-1260-1	(1)	6.66	6.66	6.66	6.66	6.66	6.66	6.56	6.76
Aroclor-1260-2	(2)	6.85	6.85	6.85	6.85	6.85	6.85	6.75	6.95
Aroclor-1260-3	(3)	7.01	7.01	7.01	7.01	7.01	7.01	6.91	7.11
Aroclor-1260-4	(4)	7.48	7.48	7.48	7.48	7.48	7.48	7.38	7.58
Aroclor-1260-5	(5)	7.72	7.72	7.72	7.72	7.72	7.72	7.62	7.82
Decachlorobiphenyl		9.22	9.22	9.22	9.22	9.22	9.22	9.12	9.32
Tetrachloro-m-xylene		4.05	4.05	4.05	4.05	4.05	4.05	3.95	4.15
Aroclor-1242-1	(1)	5.16	5.16	5.16	5.16	5.16	5.16	5.06	5.26
Aroclor-1242-2	(2)	5.18	5.18	5.18	5.18	5.18	5.18	5.08	5.28
Aroclor-1242-3	(3)	5.36	5.36	5.36	5.36	5.36	5.36	5.26	5.46
Aroclor-1242-4	(4)	5.45	5.45	5.45	5.44	5.45	5.45	5.35	5.55
Aroclor-1242-5	(5)	5.97	5.98	5.98	5.97	5.98	5.98	5.88	6.08
Decachlorobiphenyl		9.22	9.22	9.22	9.22	9.22	9.22	9.12	9.32
Tetrachloro-m-xylene		4.05	4.05	4.05	4.05	4.05	4.05	3.95	4.15
Aroclor-1248-1	(1)	5.16	5.16	5.16	5.16	5.16	5.16	5.06	5.26
Aroclor-1248-2	(2)	5.40	5.40	5.40	5.40	5.40	5.40	5.30	5.50
Aroclor-1248-3	(3)	5.44	5.45	5.44	5.44	5.45	5.44	5.34	5.54
Aroclor-1248-4	(4)	5.62	5.62	5.62	5.62	5.62	5.62	5.52	5.72
Aroclor-1248-5	(5)	6.02	6.02	6.02	6.02	6.02	6.02	5.92	6.12
Decachlorobiphenyl		9.22	9.22	9.22	9.22	9.22	9.22	9.12	9.32
Tetrachloro-m-xylene		4.05	4.05	4.05	4.05	4.05	4.05	3.95	4.15
Aroclor-1254-1	(1)	5.98	5.97	5.98	5.98	5.98	5.98	5.88	6.08
Aroclor-1254-2	(2)	6.12	6.12	6.12	6.12	6.12	6.12	6.02	6.22
Aroclor-1254-3	(3)	6.53	6.53	6.53	6.53	6.53	6.53	6.43	6.63
Aroclor-1254-4	(4)	6.76	6.76	6.76	6.76	6.76	6.76	6.66	6.86
Aroclor-1254-5	(5)	7.18	7.18	7.18	7.18	7.18	7.18	7.08	7.28
Decachlorobiphenyl		9.22	9.22	9.22	9.22	9.22	9.22	9.12	9.32
Tetrachloro-m-xylene		4.05	4.05	4.05	4.05	4.05	4.05	3.95	4.15
Aroclor-1268-1	(1)	8.01	8.01	8.01	8.01	8.01	8.01	7.91	8.11
Aroclor-1268-2	(2)	8.07	8.07	8.07	8.07	8.07	8.07	7.97	8.17
Aroclor-1268-3	(3)	8.29	8.29	8.29	8.29	8.29	8.29	8.19	8.39
Aroclor-1268-4	(4)	8.60	8.60	8.60	8.60	8.60	8.60	8.50	8.70
Aroclor-1268-5	(5)	8.93	8.93	8.93	8.92	8.93	8.93	8.83	9.03

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RETENTION TIMES OF INITIAL CALIBRATION

Decachlorobiphenyl	9.22	9.22	9.22	9.22	9.22	9.22	9.12	9.32
Tetrachloro-m-xylene	4.05	4.05	4.05	4.05	4.05	4.05	3.95	4.15

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CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: UNIO02

Lab Code: CHEM **Case No.:** P4663 **SAS No.:** P4663 **SDG NO.:** P4663

Instrument ID: ECD_P **Calibration Date(s):** 10/08/2024 10/08/2024

Calibration Times: 16:30 23:46

GC Column: ZB-MR1 **ID:** 0.32 **(mm)**

LAB FILE ID: **CF 1000 =** PP067587.D **CF 750 =** PP067588.D

CF 500 = PP067589.D **CF 250 =** PP067590.D **CF 050 =** PP067591.D

COMPOUND		CF 1000	CF 750	CF 500	CF 250	CF 050	CF	% RSD
Aroclor-1016-1	(1)	31263736	32233361	34196172	36221284	31418860	33066683	6
Aroclor-1016-2	(2)	45702590	47619661	49829602	53216480	47485960	48770859	6
Aroclor-1016-3	(3)	29655293	30980703	32521866	34545868	29856000	31511946	6
Aroclor-1016-4	(4)	24305642	24965132	26130902	27480568	25835960	25743641	5
Aroclor-1016-5	(5)	25253642	26507995	28106138	29556500	25910240	27066903	6
Aroclor-1260-1	(1)	48881600	51062627	53497292	60189956	56487000	54023695	8
Aroclor-1260-2	(2)	57303356	59473712	62743556	68896016	67937280	63270784	8
Aroclor-1260-3	(3)	47767972	49860571	52672962	57075820	51866880	51848841	7
Aroclor-1260-4	(4)	55679811	58146343	61152700	66302976	59690240	60194414	7
Aroclor-1260-5	(5)	101142428	103711039	108382514	116162164	109162380	107712105	5
Decachlorobiphenyl		1047572970	1092521333	1163088620	1272493760	1180845600	1151304457	8
Tetrachloro-m-xylene		918389550	937648760	969374660	977965440	824831600	925642002	7
Aroclor-1242-1	(1)	26136486	27020177	28880182	30131840	27517000	27937137	6
Aroclor-1242-2	(2)	37560737	39520053	41823206	43424048	40845460	40634701	5
Aroclor-1242-3	(3)	24775066	25964975	27626992	28013716	28443000	26964750	6
Aroclor-1242-4	(4)	19919938	20877219	22020082	22198916	22236220	21450475	5
Aroclor-1242-5	(5)	22664411	23310707	24494326	25449828	24710200	24125894	5
Decachlorobiphenyl		1049846500	1096431853	1183590260	1273416280	1210794800	1162815939	8
Tetrachloro-m-xylene		918045770	945319107	991838280	988565840	844744200	937702639	6
Aroclor-1248-1	(1)	19592099	21187299	21900336	23649416	20785280	21422886	7
Aroclor-1248-2	(2)	29912773	32262593	34275072	36926580	34706360	33616676	8
Aroclor-1248-3	(3)	33038688	35344895	37623064	40558304	36562360	36625462	8
Aroclor-1248-4	(4)	36925252	39416441	41800322	44728924	39382640	40450716	7
Aroclor-1248-5	(5)	36740691	38953265	40984016	43781648	37845340	39660992	7
Decachlorobiphenyl		1055450820	1109667187	1169649200	1282118000	1302489400	1183874921	9
Tetrachloro-m-xylene		902146960	926581653	953867240	992359080	895156800	934022347	4
Aroclor-1254-1	(1)	40350769	42082559	45284156	48868552	47326420	44782491	8
Aroclor-1254-2	(2)	59814731	62129524	65787698	71625140	71131660	66097751	8
Aroclor-1254-3	(3)	64043672	65831181	69388346	74782692	73217700	69452718	7
Aroclor-1254-4	(4)	45989306	47460167	50157578	54420004	51495700	49904551	7
Aroclor-1254-5	(5)	54192853	57072867	59852552	64108404	61236860	59292707	6
Decachlorobiphenyl		1068499200	1106116080	1182150460	1298012320	1262855400	1183526692	8
Tetrachloro-m-xylene		931363580	935898013	956149560	989159640	878805200	938275199	4
Aroclor-1268-1	(1)	139515419	144470283	150997662	162718796	165540620	152648556	7

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CALIBRATION FACTOR OF INITIAL CALIBRATION

Aroclor-1268-2	(2)	125679796	130088461	136577130	145743784	144888120	136595458	6
Aroclor-1268-3	(3)	110668977	116741077	119635012	130534268	127010440	120917955	7
Aroclor-1268-4	(4)	48063749	49890017	52720184	55641072	47784700	50819944	7
Aroclor-1268-5	(5)	348373365	356693093	372169718	389623012	400486540	373469146	6
Decachlorobiphenyl		1758376420	1827520213	1952930880	2093924120	2163079000	1959166127	9
Tetrachloro-m-xylene		908125750	922962547	955684560	986676760	888810200	932451963	4

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CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: UNIO02

Lab Code: CHEM **Case No.:** P4663 **SAS No.:** P4663 **SDG NO.:** P4663

Instrument ID: ECD_P **Calibration Date(s):** 10/08/2024 10/08/2024

Calibration Times: 16:30 23:46

GC Column: ZB-MR2 **ID:** 0.32 (mm)

LAB FILE ID: **CF 1000 =** PP067587.D **CF 750 =** PP067588.D

CF 500 = PP067589.D **CF 250 =** PP067590.D **CF 050 =** PP067591.D

COMPOUND		CF 1000	CF 750	CF 500	CF 250	CF 050	CF	% RSD
Aroclor-1016-1	(1)	32214100	33511487	34894776	37855020	36460880	34987253	6
Aroclor-1016-2	(2)	45072170	46943971	48711842	52177748	47937020	48168550	5
Aroclor-1016-3	(3)	25675074	27277663	27567444	28514452	25652840	26937495	5
Aroclor-1016-4	(4)	22207756	23688287	24482426	25758704	24288360	24085107	5
Aroclor-1016-5	(5)	28303958	30184395	30998408	32062244	30500300	30409861	5
Aroclor-1260-1	(1)	51490839	53867885	56846930	62693500	59910740	56961979	8
Aroclor-1260-2	(2)	60685581	63183867	66653346	73175968	69823160	66704384	8
Aroclor-1260-3	(3)	58195863	60818087	64471984	69084640	65935040	63701123	7
Aroclor-1260-4	(4)	51141777	52463477	55669740	60213672	56975040	55292741	7
Aroclor-1260-5	(5)	115751172	117431688	122205526	128041940	128062520	122298569	5
Decachlorobiphenyl		1016699470	1064912133	1114817860	1215156720	1195705800	1121458397	8
Tetrachloro-m-xylene		976302160	1002778080	1038188640	1086259240	948485600	1010402744	5
Aroclor-1242-1	(1)	26643227	27902807	30082486	31864192	28889440	29076430	7
Aroclor-1242-2	(2)	37173910	38324184	40855302	43058560	41326680	40147727	6
Aroclor-1242-3	(3)	21209836	21846417	23389330	23608008	22421520	22495022	5
Aroclor-1242-4	(4)	21894421	22781385	24633780	25302636	24076280	23737700	6
Aroclor-1242-5	(5)	25904963	27452171	28860038	30792124	30238540	28649567	7
Decachlorobiphenyl		1030873660	1074484253	1144199140	1227463640	1208383800	1137080899	7
Tetrachloro-m-xylene		979317100	1008877893	1048426020	1079705600	995407400	1022346803	4
Aroclor-1248-1	(1)	20323070	21892911	22863994	24075660	24163260	22663779	7
Aroclor-1248-2	(2)	29599820	31598663	33173378	36121664	34985540	33095813	8
Aroclor-1248-3	(3)	31098926	33116664	34686272	37576628	35894680	34474634	7
Aroclor-1248-4	(4)	36529837	38774123	40329020	44225180	44921420	40955916	9
Aroclor-1248-5	(5)	34201195	35911461	37616042	40473884	39013140	37443144	7
Decachlorobiphenyl		1032353410	1073137907	1131465640	1215505400	1241215600	1138735591	8
Tetrachloro-m-xylene		952656120	994994613	1000591240	1068188360	991037600	1001493587	4
Aroclor-1254-1	(1)	53478224	54895953	58959138	64085456	64000720	59083898	8
Aroclor-1254-2	(2)	47135286	48672312	52146652	56922440	57444240	52464186	9
Aroclor-1254-3	(3)	76675976	78569371	83205416	89086976	88502520	83208052	7
Aroclor-1254-4	(4)	44235570	45939643	48363680	51938700	50893660	48274251	7
Aroclor-1254-5	(5)	68142947	70671431	73760414	78813244	76368180	73551243	6
Decachlorobiphenyl		1041164600	1082182560	1142537200	1244245720	1270180600	1156062136	9
Tetrachloro-m-xylene		969890570	991360533	1038975520	1064707400	994465600	1011879925	4
Aroclor-1268-1	(1)	146986557	151844596	158019168	168079912	170778780	159141803	6

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CALIBRATION FACTOR OF INITIAL CALIBRATION

Aroclor-1268-2	(2)	133073925	137248829	142523422	151222024	151862520	143186144	6
Aroclor-1268-3	(3)	117364027	121504320	126517254	135757020	136405580	127509640	7
Aroclor-1268-4	(4)	51956547	53952379	54797154	61002600	60671520	56476040	7
Aroclor-1268-5	(5)	359344903	364434196	374618632	391618688	400161860	378035656	5
Decachlorobiphenyl		1755186720	1802467867	1889666160	2047579480	2153015200	1929583085	9
Tetrachloro-m-xylene		970169850	991215560	1007059780	1064676080	979052800	1002434814	4

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INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Contract: UNIO02

Lab Code: CHEM **Case No.:** P4663 **SAS No.:** P4663 **SDG NO.:** P4663

Instrument ID: ECD_P **Date(s) Analyzed:** 10/08/2024 10/08/2024

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	4.96	4.86	5.06	12809900
		2	5.04	4.94	5.14	9460580
		3	5.12	5.02	5.22	28907800
		4	0.00			0
		5	0.00			0
Aroclor-1232	500	1	5.12	5.02	5.22	22859800
		2	5.65	5.55	5.75	11783000
		3	5.94	5.84	6.04	22275000
		4	6.10	6.00	6.20	11287400
		5	6.19	6.09	6.29	9120180
Aroclor-1262	500	1	8.37	8.27	8.47	71771400
		2	8.71	8.61	8.81	121580000
		3	9.05	8.95	9.15	88514200
		4	9.14	9.04	9.24	69944800
		5	9.84	9.74	9.94	46791200

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INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Contract: UNIO02

Lab Code: CHEM **Case No.:** P4663 **SAS No.:** P4663 **SDG NO.:** P4663

Instrument ID: ECD_P **Date(s) Analyzed:** 10/08/2024 10/08/2024

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	4.27	4.17	4.37	13170200
		2	4.36	4.26	4.46	9961240
		3	4.43	4.33	4.53	31131200
		4	0.00			0
		5	0.00			0
Aroclor-1232	500	1	4.43	4.33	4.53	24333000
		2	5.18	5.08	5.28	22365000
		3	5.36	5.26	5.46	11943800
		4	5.45	5.35	5.55	11531400
		5	5.62	5.52	5.72	13450300
Aroclor-1262	500	1	7.22	7.12	7.32	78673400
		2	7.48	7.38	7.58	70962000
		3	8.01	7.91	8.11	57099400
		4	8.07	7.97	8.17	100436000
		5	8.60	8.50	8.70	50017800

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CALIBRATION VERIFICATION SUMMARY

Contract: UNIO02

Lab Code: CHEM **Case No.:** P4663 **SAS No.:** P4663 **SDG NO.:** P4663

Continuing Calib Date: 11/01/2024 **Initial Calibration Date(s):** 10/08/2024 10/08/2024

Continuing Calib Time: 10:36 **Initial Calibration Time(s):** 16:30 23:46

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)	5.93	5.92	5.82	6.02	-0.01
Aroclor-1016-2	(2)	5.95	5.94	5.84	6.04	-0.01
Aroclor-1016-3	(3)	6.01	6.01	5.91	6.11	0.00
Aroclor-1016-4	(4)	6.11	6.10	6.00	6.20	-0.01
Aroclor-1016-5	(5)	6.41	6.40	6.30	6.50	-0.01
Aroclor-1260-1	(1)	7.53	7.52	7.42	7.62	-0.01
Aroclor-1260-2	(2)	7.78	7.78	7.68	7.88	0.00
Aroclor-1260-3	(3)	8.14	8.14	8.04	8.24	0.00
Aroclor-1260-4	(4)	8.38	8.38	8.28	8.48	0.00
Aroclor-1260-5	(5)	8.72	8.71	8.61	8.81	-0.01
Tetrachloro-m-xylene		4.76	4.76	4.66	4.86	0.00
Decachlorobiphenyl		10.68	10.67	10.57	10.77	-0.01

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CALIBRATION VERIFICATION SUMMARY

Contract: UNIO02

Lab Code: CHEM **Case No.:** P4663 **SAS No.:** P4663 **SDG NO.:** P4663

Continuing Calib Date: 11/01/2024 **Initial Calibration Date(s):** 10/08/2024 10/08/2024

Continuing Calib Time: 10:36 **Initial Calibration Time(s):** 16:30 23:46

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)	5.16	5.16	5.06	5.26	0.00
Aroclor-1016-2	(2)	5.18	5.18	5.08	5.28	0.00
Aroclor-1016-3	(3)	5.36	5.36	5.26	5.46	0.00
Aroclor-1016-4	(4)	5.40	5.40	5.30	5.50	0.00
Aroclor-1016-5	(5)	5.62	5.62	5.52	5.72	0.00
Aroclor-1260-1	(1)	6.66	6.66	6.56	6.76	0.00
Aroclor-1260-2	(2)	6.85	6.85	6.75	6.95	0.00
Aroclor-1260-3	(3)	7.01	7.01	6.91	7.11	0.00
Aroclor-1260-4	(4)	7.48	7.48	7.38	7.58	0.00
Aroclor-1260-5	(5)	7.72	7.72	7.62	7.82	0.00
Tetrachloro-m-xylene		4.05	4.05	3.95	4.15	0.00
Decachlorobiphenyl		9.21	9.22	9.12	9.32	0.01

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CALIBRATION VERIFICATION SUMMARY

Contract: UNIO02

Lab Code: CHEM **Case No.:** P4663 **SAS No.:** P4663 **SDG NO.:** P4663

GC Column: ZB-MR1 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 10/08/2024 10/08/2024

Client Sample No.: CCAL01 **Date Analyzed:** 11/01/2024

Lab Sample No.: AR1660CCC500 **Data File :** PP068339.D **Time Analyzed:** 10:36

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	5.928	5.819	6.019	520.990	500.000	4.2
Aroclor-1016-2	5.950	5.842	6.042	531.040	500.000	6.2
Aroclor-1016-3	6.013	5.905	6.105	523.600	500.000	4.7
Aroclor-1016-4	6.112	6.003	6.203	521.790	500.000	4.4
Aroclor-1016-5	6.406	6.298	6.498	504.480	500.000	0.9
Aroclor-1260-1	7.530	7.422	7.622	484.880	500.000	-3.0
Aroclor-1260-2	7.782	7.675	7.875	480.060	500.000	-4.0
Aroclor-1260-3	8.143	8.037	8.237	490.870	500.000	-1.8
Aroclor-1260-4	8.382	8.275	8.475	488.400	500.000	-2.3
Aroclor-1260-5	8.720	8.612	8.812	490.380	500.000	-1.9
Decachlorobiphenyl	10.679	10.569	10.769	52.230	50.000	4.5
Tetrachloro-m-xylene	4.763	4.655	4.855	52.520	50.000	5.0

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CALIBRATION VERIFICATION SUMMARY

Contract: UNIO02

Lab Code: CHEM **Case No.:** P4663 **SAS No.:** P4663 **SDG NO.:** P4663

GC Column: ZB-MR2 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 10/08/2024 10/08/2024

Client Sample No.: CCAL01 **Date Analyzed:** 11/01/2024

Lab Sample No.: AR1660CCC500 **Data File :** PP068339.D **Time Analyzed:** 10:36

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	5.161	5.061	5.261	464.570	500.000	-7.1
Aroclor-1016-2	5.181	5.081	5.281	469.790	500.000	-6.0
Aroclor-1016-3	5.362	5.262	5.462	473.350	500.000	-5.3
Aroclor-1016-4	5.401	5.301	5.501	479.830	500.000	-4.0
Aroclor-1016-5	5.620	5.520	5.720	480.720	500.000	-3.9
Aroclor-1260-1	6.662	6.564	6.764	461.980	500.000	-7.6
Aroclor-1260-2	6.849	6.750	6.950	462.820	500.000	-7.4
Aroclor-1260-3	7.007	6.908	7.108	464.260	500.000	-7.1
Aroclor-1260-4	7.480	7.383	7.583	468.850	500.000	-6.2
Aroclor-1260-5	7.719	7.622	7.822	465.090	500.000	-7.0
Decachlorobiphenyl	9.213	9.119	9.319	48.760	50.000	-2.5
Tetrachloro-m-xylene	4.054	3.952	4.152	49.060	50.000	-1.9

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CALIBRATION VERIFICATION SUMMARY

Contract: UNIO02

Lab Code: CHEM **Case No.:** P4663 **SAS No.:** P4663 **SDG NO.:** P4663

Continuing Calib Date: 11/01/2024 **Initial Calibration Date(s):** 10/08/2024 10/08/2024

Continuing Calib Time: 18:00 **Initial Calibration Time(s):** 16:30 23:46

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)	5.93	5.92	5.82	6.02	-0.01
Aroclor-1016-2	(2)	5.95	5.94	5.84	6.04	-0.01
Aroclor-1016-3	(3)	6.01	6.01	5.91	6.11	0.00
Aroclor-1016-4	(4)	6.11	6.10	6.00	6.20	-0.01
Aroclor-1016-5	(5)	6.40	6.40	6.30	6.50	0.00
Aroclor-1260-1	(1)	7.53	7.52	7.42	7.62	-0.01
Aroclor-1260-2	(2)	7.78	7.78	7.68	7.88	0.00
Aroclor-1260-3	(3)	8.14	8.14	8.04	8.24	0.00
Aroclor-1260-4	(4)	8.38	8.38	8.28	8.48	0.00
Aroclor-1260-5	(5)	8.72	8.71	8.61	8.81	-0.01
Tetrachloro-m-xylene		4.76	4.76	4.66	4.86	0.00
Decachlorobiphenyl		10.68	10.67	10.57	10.77	-0.01

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CALIBRATION VERIFICATION SUMMARY

Contract: UNIO02

Lab Code: CHEM **Case No.:** P4663 **SAS No.:** P4663 **SDG NO.:** P4663

Continuing Calib Date: 11/01/2024 **Initial Calibration Date(s):** 10/08/2024 10/08/2024

Continuing Calib Time: 18:00 **Initial Calibration Time(s):** 16:30 23:46

GC Column: ZB-MR2 **ID:** 0.32 **(mm)**

COMPOUND		CCAL RT	AVG RT	RT WINDOW FROM	TO	DIFF RT
Aroclor-1016-1	(1)	5.16	5.16	5.06	5.26	0.00
Aroclor-1016-2	(2)	5.18	5.18	5.08	5.28	0.00
Aroclor-1016-3	(3)	5.36	5.36	5.26	5.46	0.00
Aroclor-1016-4	(4)	5.40	5.40	5.30	5.50	0.00
Aroclor-1016-5	(5)	5.62	5.62	5.52	5.72	0.00
Aroclor-1260-1	(1)	6.66	6.66	6.56	6.76	0.00
Aroclor-1260-2	(2)	6.85	6.85	6.75	6.95	0.00
Aroclor-1260-3	(3)	7.00	7.01	6.91	7.11	0.01
Aroclor-1260-4	(4)	7.48	7.48	7.38	7.58	0.00
Aroclor-1260-5	(5)	7.72	7.72	7.62	7.82	0.00
Tetrachloro-m-xylene		4.05	4.05	3.95	4.15	0.00
Decachlorobiphenyl		9.21	9.22	9.12	9.32	0.01

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CALIBRATION VERIFICATION SUMMARY

Contract: UNIO02

Lab Code: CHEM **Case No.:** P4663 **SAS No.:** P4663 **SDG NO.:** P4663

GC Column: ZB-MR1 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 10/08/2024 10/08/2024

Client Sample No.: CCAL02 **Date Analyzed:** 11/01/2024

Lab Sample No.: AR1660CCC500 **Data File :** PP068354.D **Time Analyzed:** 18:00

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	5.925	5.819	6.019	514.430	500.000	2.9
Aroclor-1016-2	5.947	5.842	6.042	507.690	500.000	1.5
Aroclor-1016-3	6.011	5.905	6.105	499.770	500.000	0.0
Aroclor-1016-4	6.109	6.003	6.203	484.840	500.000	-3.0
Aroclor-1016-5	6.403	6.298	6.498	479.160	500.000	-4.2
Aroclor-1260-1	7.526	7.422	7.622	440.410	500.000	-11.9
Aroclor-1260-2	7.779	7.675	7.875	435.280	500.000	-12.9
Aroclor-1260-3	8.141	8.037	8.237	444.470	500.000	-11.1
Aroclor-1260-4	8.380	8.275	8.475	445.800	500.000	-10.8
Aroclor-1260-5	8.717	8.612	8.812	456.680	500.000	-8.7
Decachlorobiphenyl	10.676	10.569	10.769	48.090	50.000	-3.8
Tetrachloro-m-xylene	4.761	4.655	4.855	52.800	50.000	5.6

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CALIBRATION VERIFICATION SUMMARY

Contract: UNIO02

Lab Code: CHEM **Case No.:** P4663 **SAS No.:** P4663 **SDG NO.:** P4663

GC Column: ZB-MR2 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 10/08/2024 10/08/2024

Client Sample No.: CCAL02 **Date Analyzed:** 11/01/2024

Lab Sample No.: AR1660CCC500 **Data File :** PP068354.D **Time Analyzed:** 18:00

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	5.158	5.061	5.261	476.910	500.000	-4.6
Aroclor-1016-2	5.178	5.081	5.281	473.500	500.000	-5.3
Aroclor-1016-3	5.359	5.262	5.462	494.850	500.000	-1.0
Aroclor-1016-4	5.398	5.301	5.501	492.210	500.000	-1.6
Aroclor-1016-5	5.616	5.520	5.720	484.560	500.000	-3.1
Aroclor-1260-1	6.659	6.564	6.764	446.980	500.000	-10.6
Aroclor-1260-2	6.846	6.750	6.950	447.550	500.000	-10.5
Aroclor-1260-3	7.003	6.908	7.108	442.460	500.000	-11.5
Aroclor-1260-4	7.478	7.383	7.583	434.030	500.000	-13.2
Aroclor-1260-5	7.716	7.622	7.822	429.410	500.000	-14.1
Decachlorobiphenyl	9.208	9.119	9.319	44.580	50.000	-10.8
Tetrachloro-m-xylene	4.051	3.952	4.152	49.330	50.000	-1.3

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Analytical Sequence

Client: Union Paving & Construction Company **SDG No.:** P4663

Project: Rt. 10 Whippany **Instrument ID:** ECD_P

GC Column: ZB-MR1 **ID:** 0.32 (mm) **Inst. Calib. Date(s):** 10/08/2024 10/08/2024

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	10/08/2024	16:14	PP067586.D	10.67	4.75
AR1660ICC1000	AR1660ICC1000	10/08/2024	16:30	PP067587.D	10.67	4.75
AR1660ICC750	AR1660ICC750	10/08/2024	16:46	PP067588.D	10.67	4.75
AR1660ICC500	AR1660ICC500	10/08/2024	17:02	PP067589.D	10.67	4.76
AR1660ICC250	AR1660ICC250	10/08/2024	17:19	PP067590.D	10.67	4.75
AR1660ICC050	AR1660ICC050	10/08/2024	17:35	PP067591.D	10.67	4.76
AR1221ICC500	AR1221ICC500	10/08/2024	17:51	PP067592.D	10.67	4.75
AR1232ICC500	AR1232ICC500	10/08/2024	18:07	PP067593.D	10.67	4.75
AR1242ICC1000	AR1242ICC1000	10/08/2024	18:23	PP067594.D	10.67	4.76
AR1242ICC750	AR1242ICC750	10/08/2024	18:39	PP067595.D	10.67	4.76
AR1242ICC500	AR1242ICC500	10/08/2024	18:55	PP067596.D	10.67	4.75
AR1242ICC250	AR1242ICC250	10/08/2024	19:12	PP067597.D	10.67	4.76
AR1242ICC050	AR1242ICC050	10/08/2024	19:28	PP067598.D	10.67	4.75
AR1248ICC1000	AR1248ICC1000	10/08/2024	19:44	PP067599.D	10.67	4.75
AR1248ICC750	AR1248ICC750	10/08/2024	20:00	PP067600.D	10.67	4.75
AR1248ICC500	AR1248ICC500	10/08/2024	20:16	PP067601.D	10.67	4.75
AR1248ICC250	AR1248ICC250	10/08/2024	20:32	PP067602.D	10.67	4.75
AR1248ICC050	AR1248ICC050	10/08/2024	20:49	PP067603.D	10.66	4.75
AR1254ICC1000	AR1254ICC1000	10/08/2024	21:05	PP067604.D	10.67	4.76
AR1254ICC750	AR1254ICC750	10/08/2024	21:21	PP067605.D	10.67	4.75
AR1254ICC500	AR1254ICC500	10/08/2024	21:37	PP067606.D	10.67	4.75
AR1254ICC250	AR1254ICC250	10/08/2024	21:53	PP067607.D	10.67	4.75
AR1254ICC050	AR1254ICC050	10/08/2024	22:09	PP067608.D	10.66	4.75
AR1262ICC500	AR1262ICC500	10/08/2024	22:25	PP067609.D	10.66	4.75
AR1268ICC1000	AR1268ICC1000	10/08/2024	22:42	PP067610.D	10.67	4.76
AR1268ICC750	AR1268ICC750	10/08/2024	22:58	PP067611.D	10.67	4.75
AR1268ICC500	AR1268ICC500	10/08/2024	23:14	PP067612.D	10.67	4.75
AR1268ICC250	AR1268ICC250	10/08/2024	23:30	PP067613.D	10.67	4.75
AR1268ICC050	AR1268ICC050	10/08/2024	23:46	PP067614.D	10.67	4.75
AR1660CCC500	AR1660CCC500	11/01/2024	10:36	PP068339.D	10.68	4.76
I.BLK	I.BLK	11/01/2024	11:53	PP068343.D	10.69	4.77
PB164590BL	PB164590BL	11/01/2024	14:55	PP068344.D	10.68	4.76
PB164590BS	PB164590BS	11/01/2024	15:11	PP068345.D	10.68	4.76
TENNANT-PAD-2-3-STOCKPILE	P4663-02	11/01/2024	16:00	PP068348.D	10.68	4.76
TENNANT-PAD-2-3-STOCKPILEMS	P4663-02MS	11/01/2024	16:17	PP068349.D	10.68	4.76
TENNANT-PAD-2-3-STOCKPILEMSD	P4663-02MSD	11/01/2024	16:33	PP068350.D	10.68	4.76
RES-BUILDING-PAD-NO-11	P4663-04	11/01/2024	16:50	PP068351.D	10.68	4.76
RES-BUILDING-PAD-NO-3	P4663-06	11/01/2024	17:06	PP068352.D	10.67	4.76
RES-BUILDING-PAD-NO-2	P4663-08	11/01/2024	17:22	PP068353.D	10.68	4.76
AR1660CCC500	AR1660CCC500	11/01/2024	18:00	PP068354.D	10.68	4.76
I.BLK	I.BLK	11/01/2024	19:05	PP068358.D	10.67	4.76

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Analytical Sequence

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Analytical Sequence

Client: Union Paving & Construction Company **SDG No.:** P4663

Project: Rt. 10 Whippany **Instrument ID:** ECD_P

GC Column: ZB-MR2 **ID:** 0.32 (mm) **Inst. Calib. Date(s):** 10/08/2024 10/08/2024

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	10/08/2024	16:14	PP067586.D	9.22	4.05
AR1660ICC1000	AR1660ICC1000	10/08/2024	16:30	PP067587.D	9.22	4.05
AR1660ICC750	AR1660ICC750	10/08/2024	16:46	PP067588.D	9.22	4.05
AR1660ICC500	AR1660ICC500	10/08/2024	17:02	PP067589.D	9.22	4.05
AR1660ICC250	AR1660ICC250	10/08/2024	17:19	PP067590.D	9.22	4.05
AR1660ICC050	AR1660ICC050	10/08/2024	17:35	PP067591.D	9.22	4.05
AR1221ICC500	AR1221ICC500	10/08/2024	17:51	PP067592.D	9.22	4.05
AR1232ICC500	AR1232ICC500	10/08/2024	18:07	PP067593.D	9.22	4.05
AR1242ICC1000	AR1242ICC1000	10/08/2024	18:23	PP067594.D	9.22	4.05
AR1242ICC750	AR1242ICC750	10/08/2024	18:39	PP067595.D	9.22	4.05
AR1242ICC500	AR1242ICC500	10/08/2024	18:55	PP067596.D	9.22	4.05
AR1242ICC250	AR1242ICC250	10/08/2024	19:12	PP067597.D	9.22	4.05
AR1242ICC050	AR1242ICC050	10/08/2024	19:28	PP067598.D	9.22	4.05
AR1248ICC1000	AR1248ICC1000	10/08/2024	19:44	PP067599.D	9.22	4.05
AR1248ICC750	AR1248ICC750	10/08/2024	20:00	PP067600.D	9.22	4.05
AR1248ICC500	AR1248ICC500	10/08/2024	20:16	PP067601.D	9.22	4.05
AR1248ICC250	AR1248ICC250	10/08/2024	20:32	PP067602.D	9.22	4.05
AR1248ICC050	AR1248ICC050	10/08/2024	20:49	PP067603.D	9.22	4.05
AR1254ICC1000	AR1254ICC1000	10/08/2024	21:05	PP067604.D	9.22	4.05
AR1254ICC750	AR1254ICC750	10/08/2024	21:21	PP067605.D	9.22	4.05
AR1254ICC500	AR1254ICC500	10/08/2024	21:37	PP067606.D	9.22	4.05
AR1254ICC250	AR1254ICC250	10/08/2024	21:53	PP067607.D	9.22	4.05
AR1254ICC050	AR1254ICC050	10/08/2024	22:09	PP067608.D	9.22	4.05
AR1262ICC500	AR1262ICC500	10/08/2024	22:25	PP067609.D	9.22	4.05
AR1268ICC1000	AR1268ICC1000	10/08/2024	22:42	PP067610.D	9.22	4.05
AR1268ICC750	AR1268ICC750	10/08/2024	22:58	PP067611.D	9.22	4.05
AR1268ICC500	AR1268ICC500	10/08/2024	23:14	PP067612.D	9.22	4.05
AR1268ICC250	AR1268ICC250	10/08/2024	23:30	PP067613.D	9.22	4.05
AR1268ICC050	AR1268ICC050	10/08/2024	23:46	PP067614.D	9.22	4.05
AR1660CCC500	AR1660CCC500	11/01/2024	10:36	PP068339.D	9.21	4.05
I.BLK	I.BLK	11/01/2024	11:53	PP068343.D	9.22	4.05
PB164590BL	PB164590BL	11/01/2024	14:55	PP068344.D	9.21	4.05
PB164590BS	PB164590BS	11/01/2024	15:11	PP068345.D	9.21	4.06
TENNANT-PAD-2-3-STOCKPILE	P4663-02	11/01/2024	16:00	PP068348.D	9.21	4.05
TENNANT-PAD-2-3-STOCKPILEMS	P4663-02MS	11/01/2024	16:17	PP068349.D	9.21	4.05
TENNANT-PAD-2-3-STOCKPILEMSD	P4663-02MSD	11/01/2024	16:33	PP068350.D	9.21	4.05
RES-BUILDING-PAD-NO-11	P4663-04	11/01/2024	16:50	PP068351.D	9.21	4.05
RES-BUILDING-PAD-NO-3	P4663-06	11/01/2024	17:06	PP068352.D	9.21	4.05
RES-BUILDING-PAD-NO-2	P4663-08	11/01/2024	17:22	PP068353.D	9.21	4.05
AR1660CCC500	AR1660CCC500	11/01/2024	18:00	PP068354.D	9.21	4.05
I.BLK	I.BLK	11/01/2024	19:05	PP068358.D	9.21	4.05

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

Analytical Sequence

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

IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

SAMPLE NO.
PB164590BS

Contract: UNIO02

Lab Code: CHEM Case No.: P4663 SAS No.: P4663 SDG NO.: P4663

Lab Sample ID: PB164590BS Date(s) Analyzed: 11/01/2024 11/01/2024

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 PP068345.D

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%RPD
Aroclor-1016	1	5.926	5.876	5.976	160		
	2	5.948	5.898	5.998	161		
	3	6.011	5.961	6.061	165		
COLUMN 1	4	6.11	6.06	6.16	155		
	5	6.404	6.354	6.454	142	157	
	1	5.161	5.111	5.211	136		
	2	5.181	5.131	5.231	138		
	3	5.362	5.312	5.412	138		
	4	5.4	5.35	5.45	138		
COLUMN 2	5	5.619	5.569	5.669	135	137	13.61
Aroclor-1260	1	7.528	7.478	7.578	153		
	2	7.78	7.73	7.83	149		
	3	8.142	8.092	8.192	134		
COLUMN 1	4	8.38	8.33	8.43	141		
	5	8.718	8.668	8.768	136	143	
	1	6.663	6.613	6.713	143		
	2	6.849	6.799	6.899	142		
	3	7.007	6.957	7.057	144		
	4	7.482	7.432	7.532	127		
COLUMN 2	5	7.72	7.67	7.77	126	136	5.02

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Fax : 908 789 8922

IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

SAMPLE NO.
TENNANT-PAD-2-3-STO

Contract: UNIO02
Lab Code: CHEM Case No.: P4663 SAS No.: P4663 SDG NO.: P4663
Lab Sample ID: P4663-02MS Date(s) Analyzed: 11/01/2024 11/01/2024
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 PP068349.D

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%RPD
Aroclor-1016	1	5.924	5.874	5.974	186		
	2	5.946	5.896	5.996	179		
	3	6.01	5.96	6.06	175		
COLUMN 1	4	6.108	6.058	6.158	174		
	5	6.402	6.352	6.452	171	177	
	1	5.159	5.109	5.209	165		
	2	5.179	5.129	5.229	165		
	3	5.359	5.309	5.409	169		
	4	5.398	5.348	5.448	160		
COLUMN 2	5	5.616	5.566	5.666	143	160	10.09
Aroclor-1260	1	7.525	7.475	7.575	158		
	2	7.778	7.728	7.828	162		
	3	8.14	8.09	8.19	127		
COLUMN 1	4	8.378	8.328	8.428	140		
	5	8.715	8.665	8.765	139	145	
	1	6.66	6.61	6.71	146		
	2	6.846	6.796	6.896	143		
	3	7.004	6.954	7.054	143		
	4	7.478	7.428	7.528	126		
COLUMN 2	5	7.717	7.667	7.767	127	137	5.67

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Fax : 908 789 8922

IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

SAMPLE NO.

TENNANT-PAD-2-3-STO

Contract: UNIO02

Lab Code: CHEM Case No.: P4663 SAS No.: P4663 SDG NO.: P4663

Lab Sample ID: P4663-02MSD Date(s) Analyzed: 11/01/2024 11/01/2024

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 PP068350.D

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%RPD
Aroclor-1016	1	5.923	5.873	5.973	185		
	2	5.946	5.896	5.996	181		
	3	6.009	5.959	6.059	175		
COLUMN 1	4	6.107	6.057	6.157	176		
	5	6.401	6.351	6.451	174	178	
	1	5.159	5.109	5.209	165		
	2	5.179	5.129	5.229	165		
	3	5.359	5.309	5.409	168		
	4	5.399	5.349	5.449	161		
COLUMN 2	5	5.617	5.567	5.667	148	161	10.03
Aroclor-1260	1	7.525	7.475	7.575	158		
	2	7.778	7.728	7.828	162		
	3	8.14	8.09	8.19	129		
COLUMN 1	4	8.378	8.328	8.428	139		
	5	8.716	8.666	8.766	140	146	
	1	6.661	6.611	6.711	147		
	2	6.847	6.797	6.897	145		
	3	7.004	6.954	7.054	147		
	4	7.479	7.429	7.529	123		
COLUMN 2	5	7.717	7.667	7.767	125	137	6.36

SAMPLE RAW DATA

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP110124\
Data File : PP068348.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 Nov 2024 16:00
Operator : YP\AJ
Sample : P4663-02
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
ECD_P
ClientSampleId :
TENNANT-PAD-2-3-STOCKPILE

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 04 00:46:23 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP100824.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Oct 09 05:48:32 2024
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...	4.759	4.053	21789176	22000563	23.540	21.774
2)	SA Decachlor...	10.676	9.212	25765846	20892496	22.380	18.630
	Target Compounds						

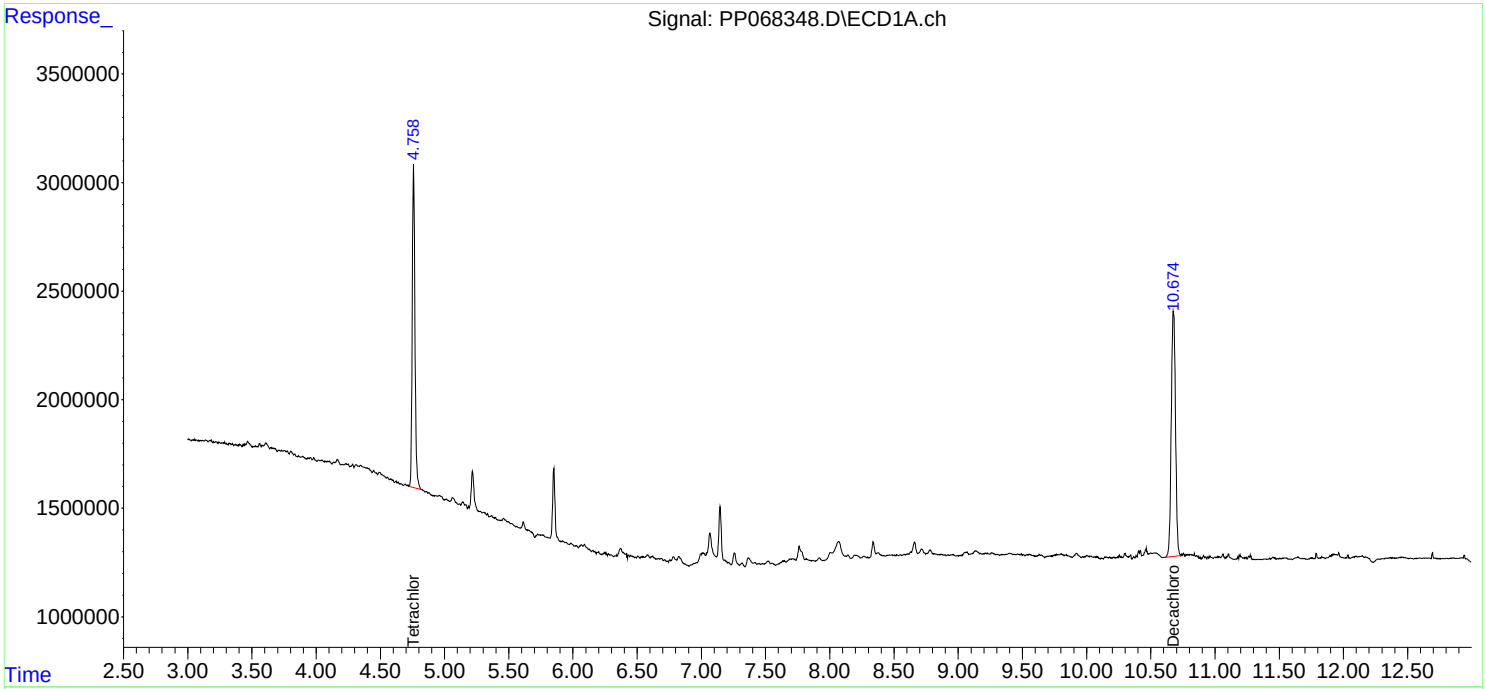
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

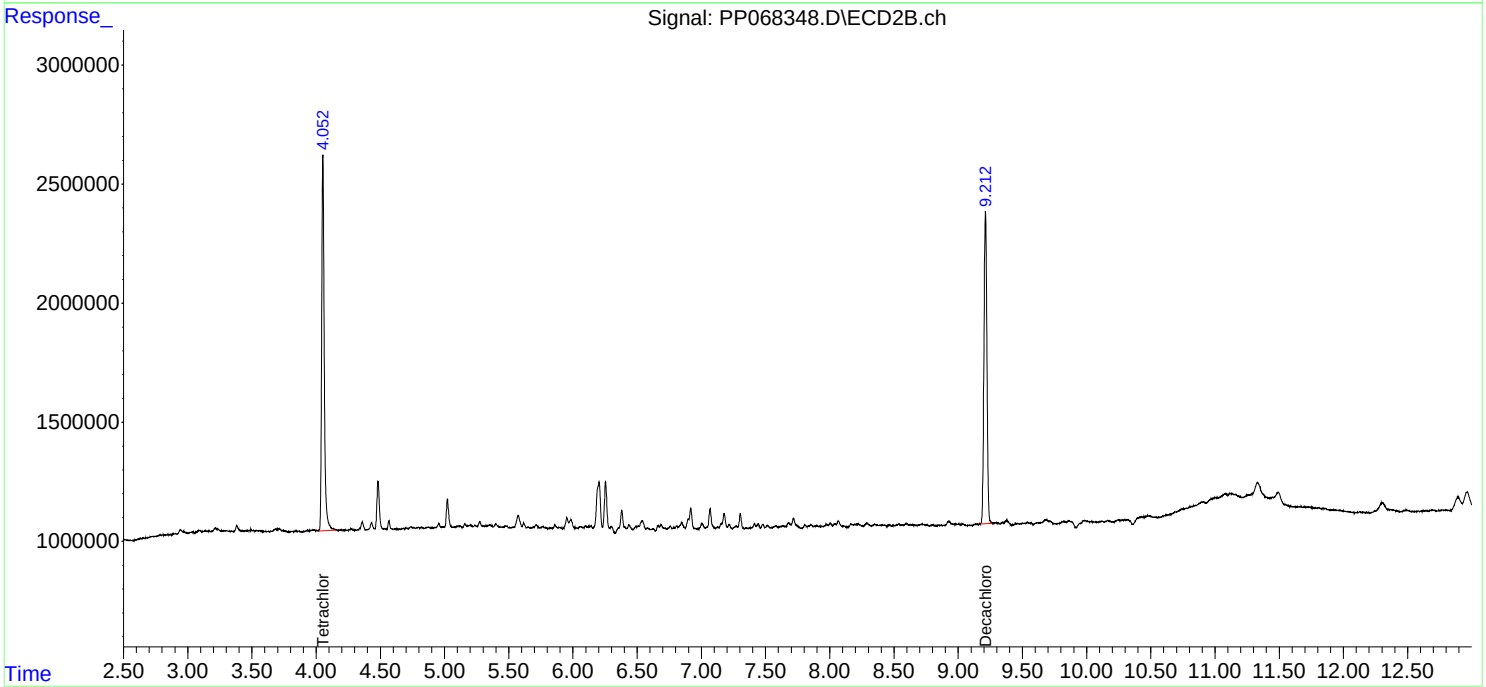
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP110124\
Data File : PP068348.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 Nov 2024 16:00
Operator : YP\AJ
Sample : P4663-02
Misc :
ALS Vial : 11 Sample Multiplier: 1

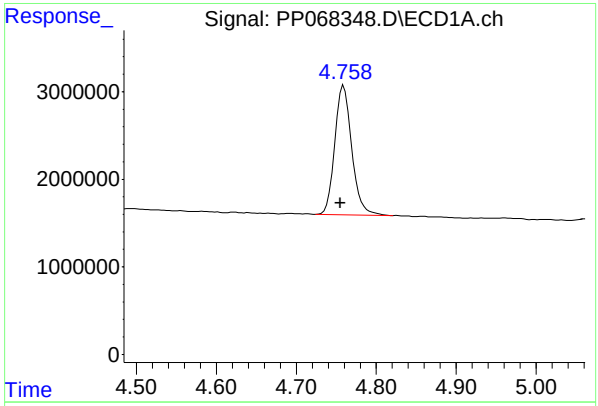
Instrument :
ECD_P
ClientSampleId :
TENNANT-PAD-2-3-STOCKPILE

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 04 00:46:23 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP100824.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Oct 09 05:48:32 2024
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



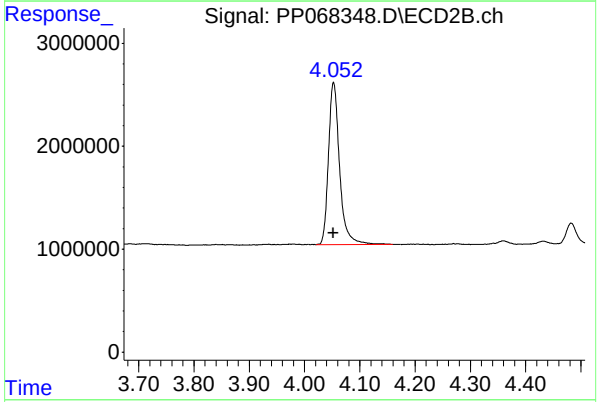




#1 Tetrachloro-m-xylene

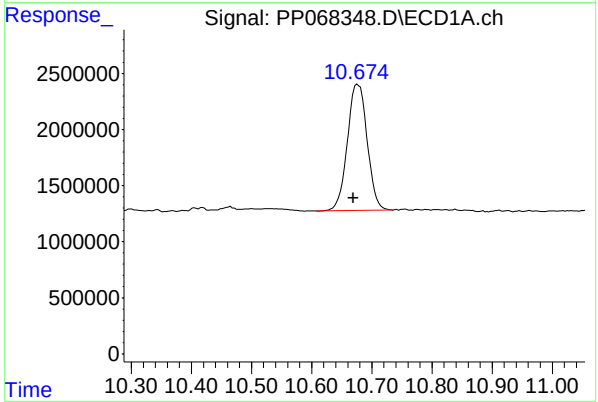
R.T.: 4.759 min
Delta R.T.: 0.004 min
Response: 21789176
Conc: 23.54 ng/ml

Instrument :
ECD_P
ClientSampleId :
TENNANT-PAD-2-3-STOCKPILE



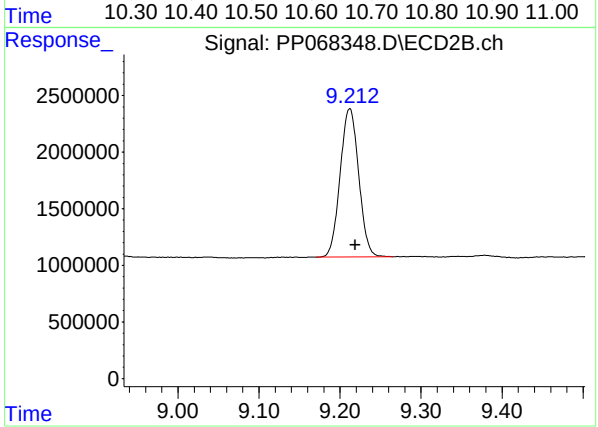
#1 Tetrachloro-m-xylene

R.T.: 4.053 min
Delta R.T.: 0.000 min
Response: 22000563
Conc: 21.77 ng/ml



#2 Decachlorobiphenyl

R.T.: 10.676 min
Delta R.T.: 0.007 min
Response: 25765846
Conc: 22.38 ng/ml



#2 Decachlorobiphenyl

R.T.: 9.212 min
Delta R.T.: -0.007 min
Response: 20892496
Conc: 18.63 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP110124\
Data File : PP068351.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 Nov 2024 16:50
Operator : YP\AJ
Sample : P4663-04
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
ECD_P
ClientSampleId :
RES-BUILDING-PAD-NO-11

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 04 00:48:22 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP100824.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Oct 09 05:48:32 2024
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...	4.761	4.052	21075396	21473499	22.768	21.252
2)	SA Decachlor...	10.677	9.211	22845042	20225062	19.843	18.035
	Target Compounds						

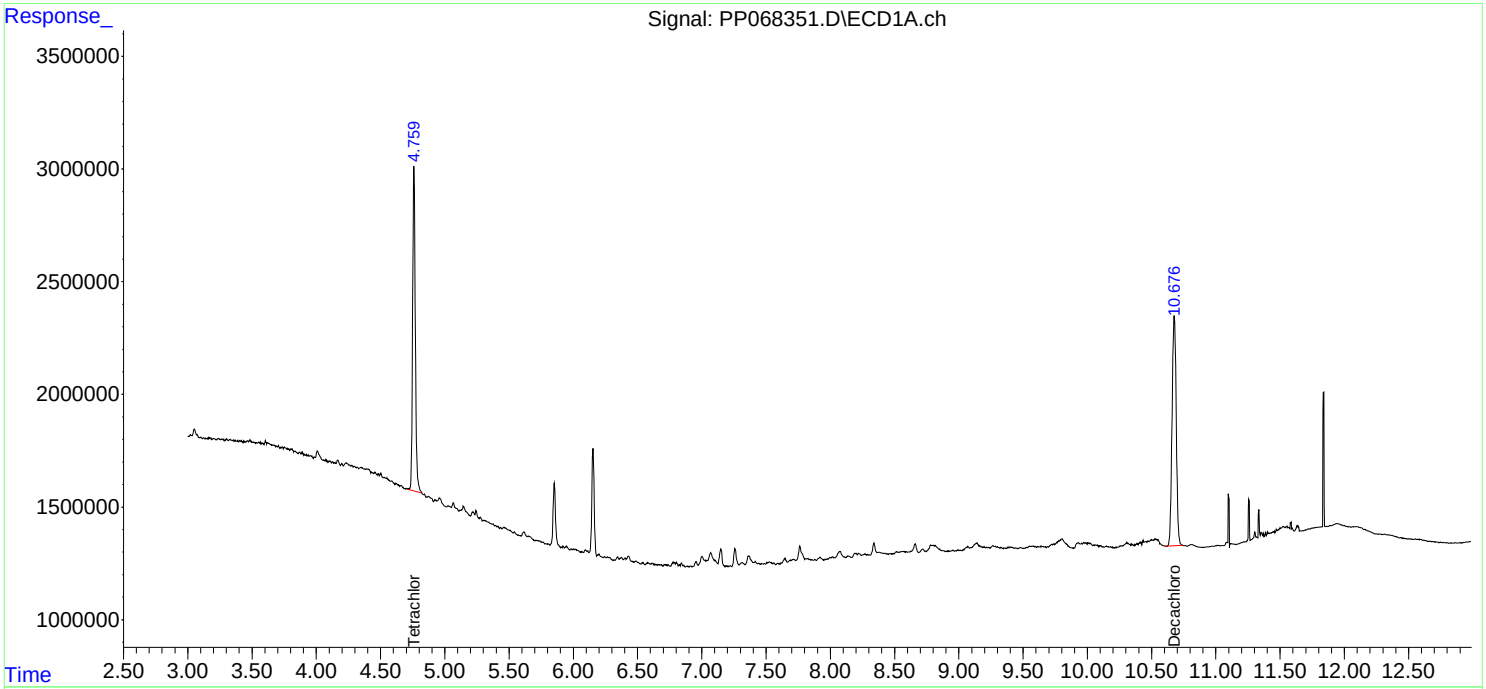
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

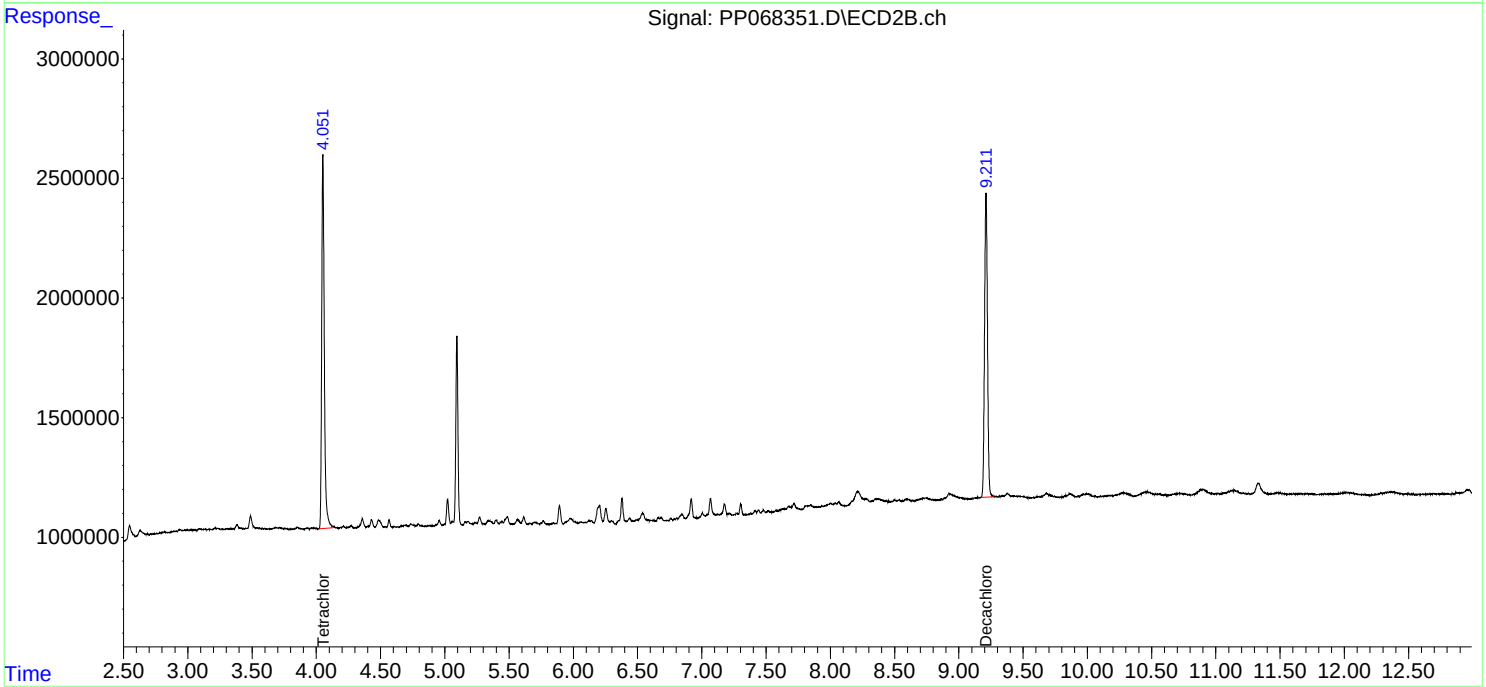
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP110124\
Data File : PP068351.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 Nov 2024 16:50
Operator : YP\AJ
Sample : P4663-04
Misc :
ALS Vial : 14 Sample Multiplier: 1

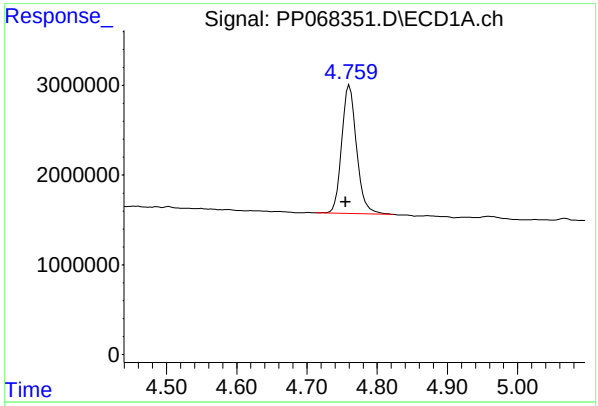
Instrument :
ECD_P
ClientSampleId :
RES-BUILDING-PAD-NO-11

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 04 00:48:22 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP100824.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Oct 09 05:48:32 2024
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



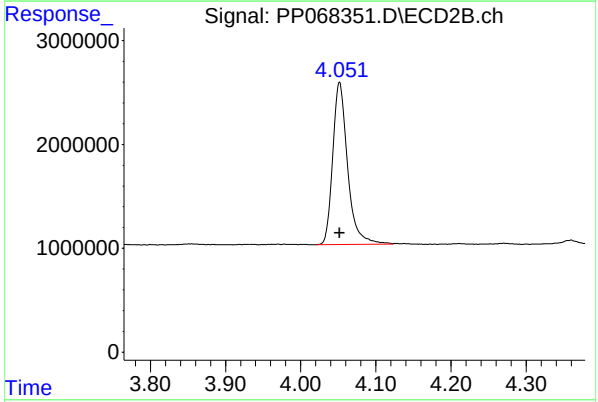




#1 Tetrachloro-m-xylene

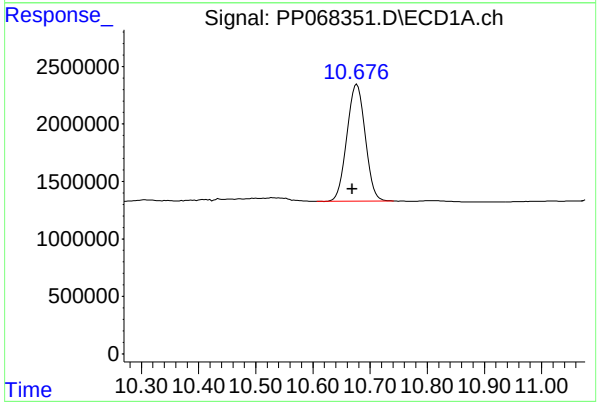
R.T.: 4.761 min
Delta R.T.: 0.006 min
Response: 21075396
Conc: 22.77 ng/ml

Instrument :
ECD_P
ClientSampleId :
RES-BUILDING-PAD-NO-11



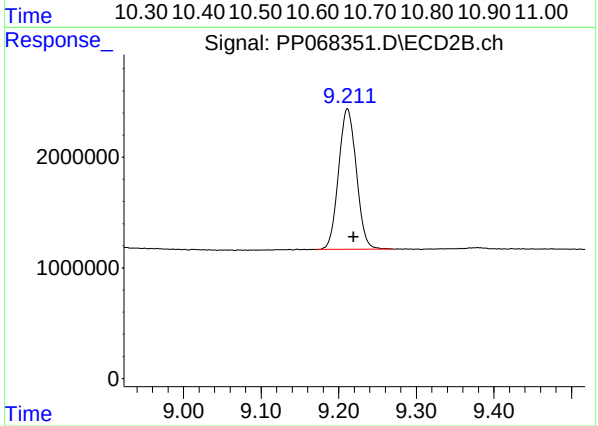
#1 Tetrachloro-m-xylene

R.T.: 4.052 min
Delta R.T.: 0.000 min
Response: 21473499
Conc: 21.25 ng/ml



#2 Decachlorobiphenyl

R.T.: 10.677 min
Delta R.T.: 0.008 min
Response: 22845042
Conc: 19.84 ng/ml



#2 Decachlorobiphenyl

R.T.: 9.211 min
Delta R.T.: -0.008 min
Response: 20225062
Conc: 18.03 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP110124\
Data File : PP068352.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 Nov 2024 17:06
Operator : YP\AJ
Sample : P4663-06
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
ECD_P
ClientSampleId :
RES-BUILDING-PAD-NO-3

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 04 00:49:01 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP100824.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Oct 09 05:48:32 2024
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...	4.758	4.051	20858721	21398263	22.534	21.178
2)	SA Decachlor...	10.673	9.210	22685454	20267280	19.704	18.072
	Target Compounds						

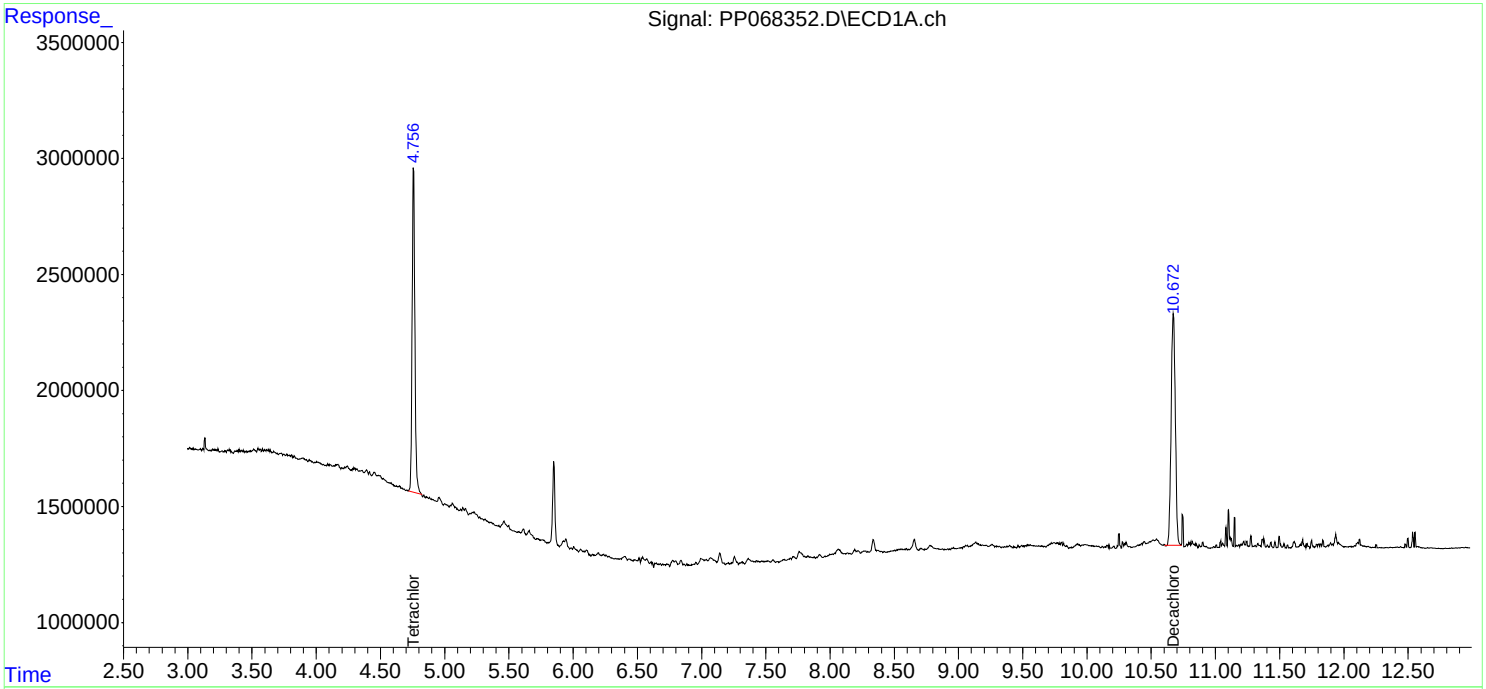
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

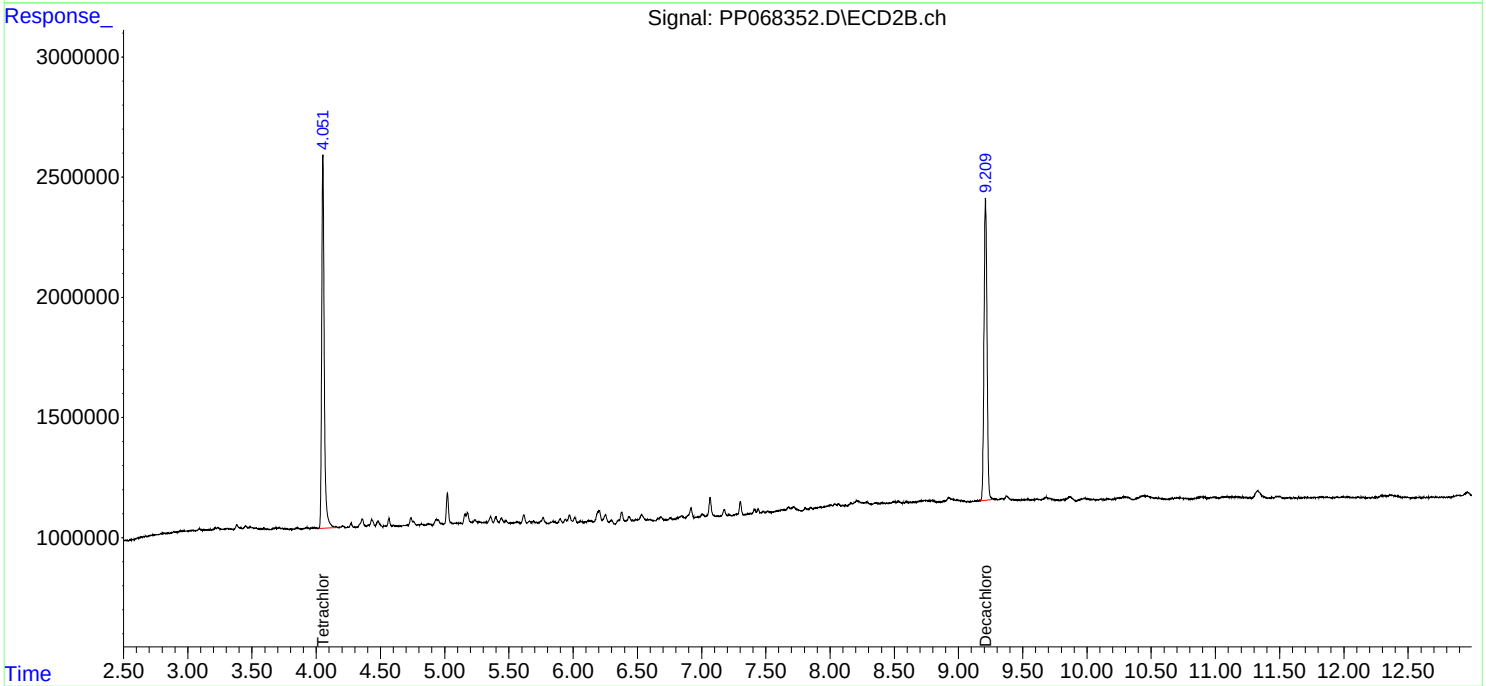
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP110124\
Data File : PP068352.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 Nov 2024 17:06
Operator : YP\AJ
Sample : P4663-06
Misc :
ALS Vial : 15 Sample Multiplier: 1

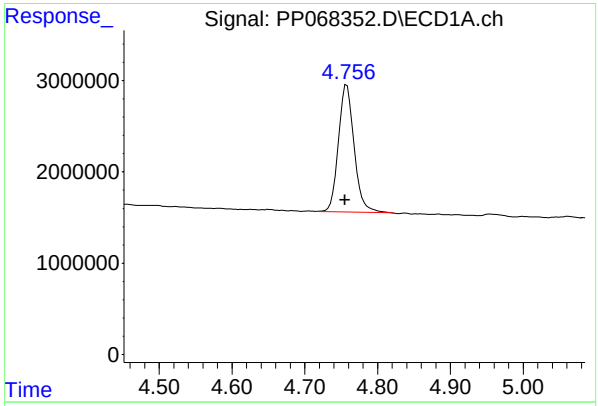
Instrument :
ECD_P
ClientSampleId :
RES-BUILDING-PAD-NO-3

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 04 00:49:01 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP100824.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Oct 09 05:48:32 2024
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



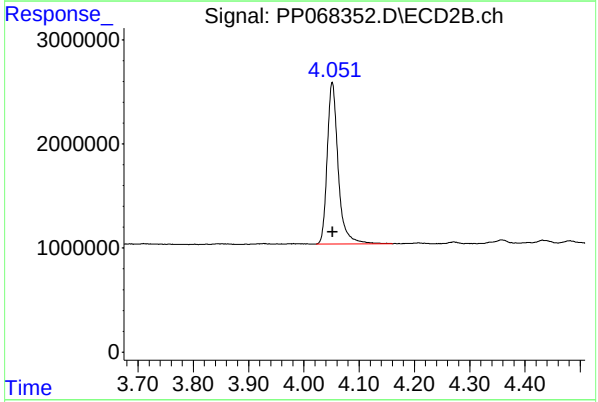




#1 Tetrachloro-m-xylene

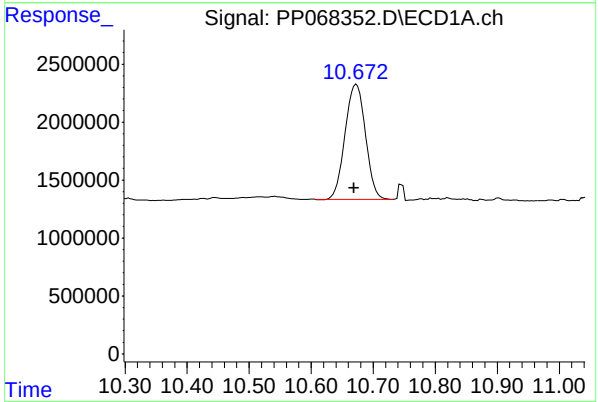
R.T.: 4.758 min
Delta R.T.: 0.003 min
Response: 20858721
Conc: 22.53 ng/ml

Instrument :
ECD_P
ClientSampleId :
RES-BUILDING-PAD-NO-3



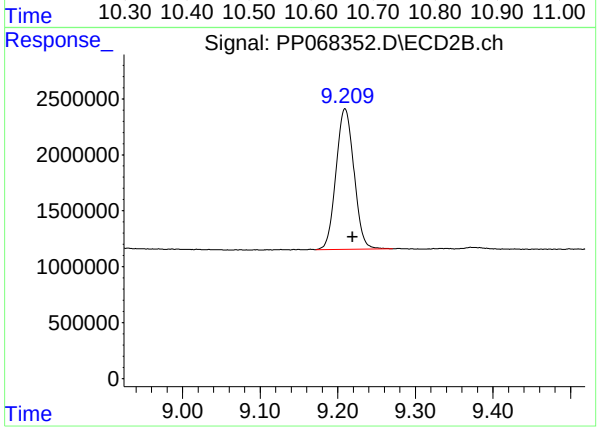
#1 Tetrachloro-m-xylene

R.T.: 4.051 min
Delta R.T.: 0.000 min
Response: 21398263
Conc: 21.18 ng/ml



#2 Decachlorobiphenyl

R.T.: 10.673 min
Delta R.T.: 0.004 min
Response: 22685454
Conc: 19.70 ng/ml



#2 Decachlorobiphenyl

R.T.: 9.210 min
Delta R.T.: -0.010 min
Response: 20267280
Conc: 18.07 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP110124\
Data File : PP068353.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 Nov 2024 17:22
Operator : YP\AJ
Sample : P4663-08
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
ECD_P
ClientSampleId :
RES-BUILDING-PAD-NO-2

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 04 00:49:39 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP100824.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Oct 09 05:48:32 2024
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...	4.762	4.051	17086856	17374001	18.459	17.195
2)	SA Decachlor...	10.677	9.209	19475197	17428494	16.916	15.541
	Target Compounds						

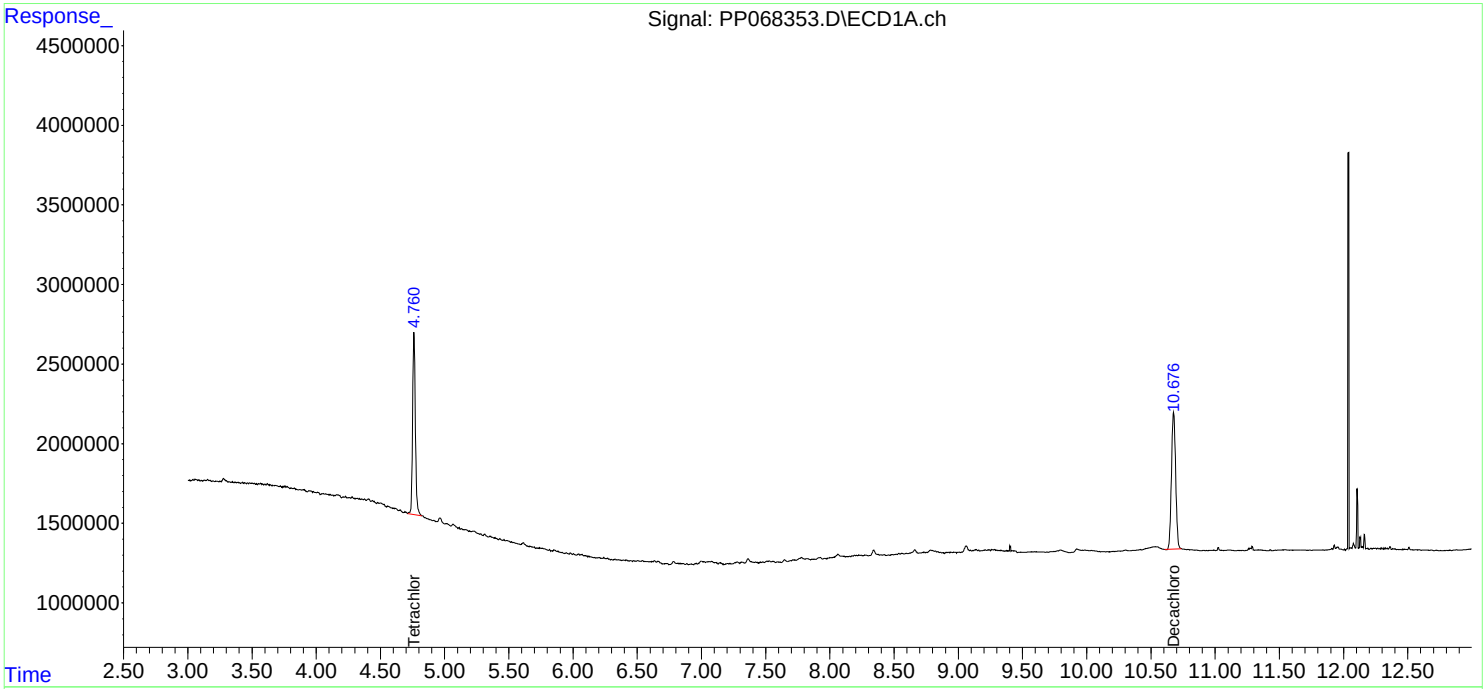
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

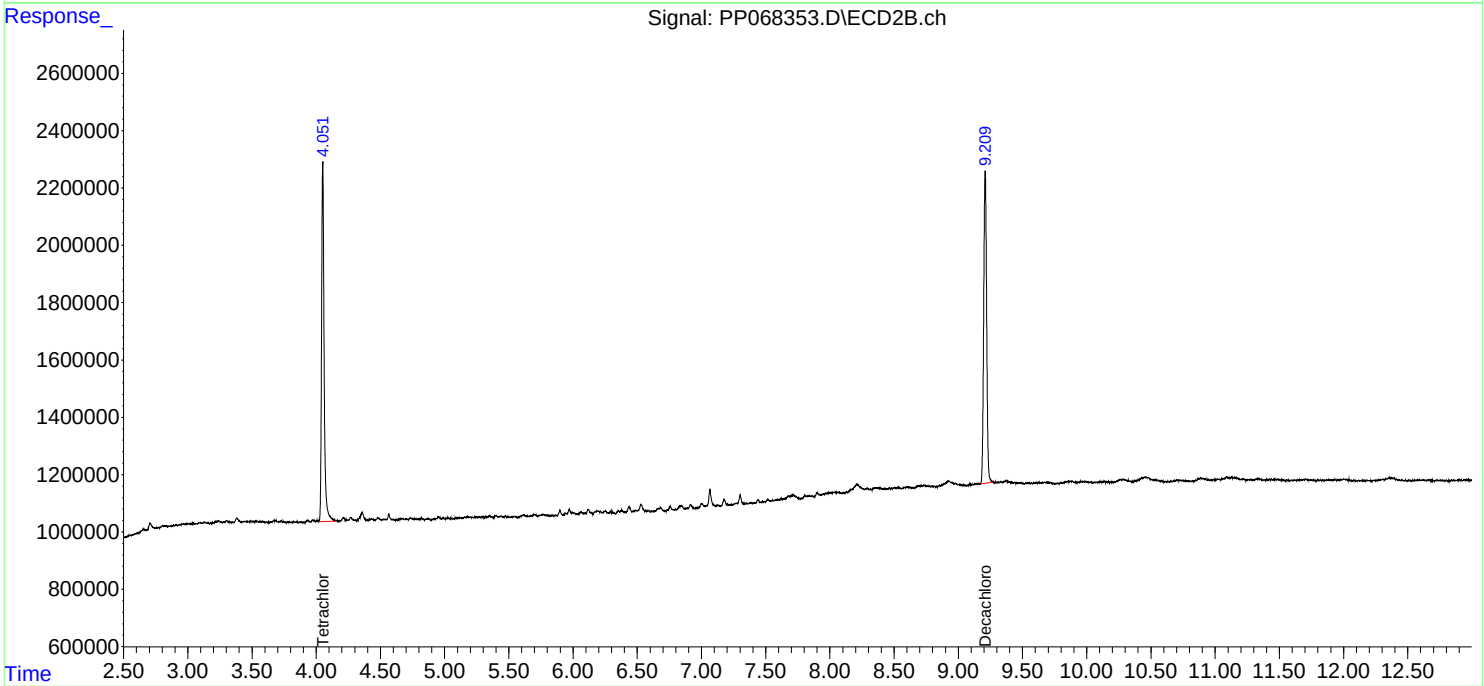
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP110124\
Data File : PP068353.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 Nov 2024 17:22
Operator : YP\AJ
Sample : P4663-08
Misc :
ALS Vial : 16 Sample Multiplier: 1

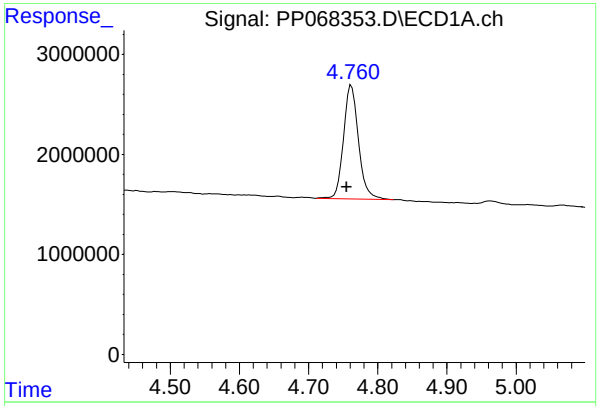
Instrument :
ECD_P
ClientSampleId :
RES-BUILDING-PAD-NO-2

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 04 00:49:39 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP100824.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Oct 09 05:48:32 2024
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



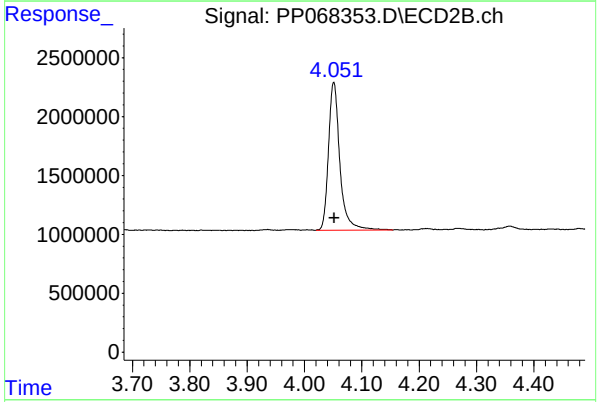




#1 Tetrachloro-m-xylene

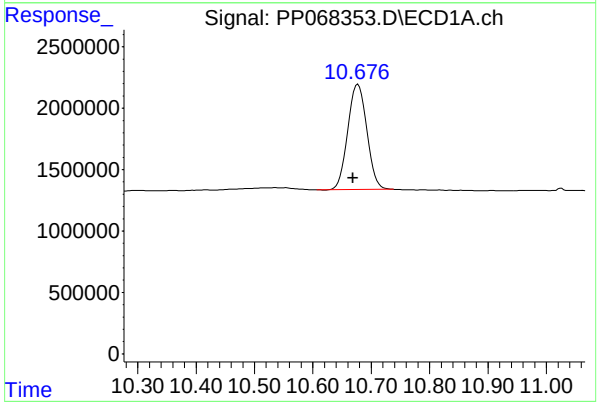
R.T.: 4.762 min
Delta R.T.: 0.007 min
Response: 17086856
Conc: 18.46 ng/ml

Instrument :
ECD_P
ClientSampleId :
RES-BUILDING-PAD-NO-2



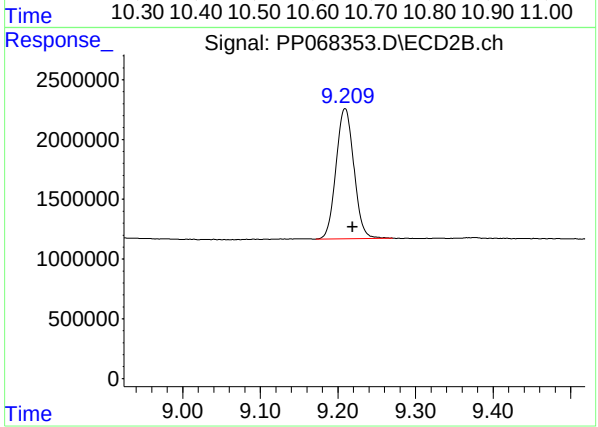
#1 Tetrachloro-m-xylene

R.T.: 4.051 min
Delta R.T.: 0.000 min
Response: 17374001
Conc: 17.20 ng/ml



#2 Decachlorobiphenyl

R.T.: 10.677 min
Delta R.T.: 0.008 min
Response: 19475197
Conc: 16.92 ng/ml



#2 Decachlorobiphenyl

R.T.: 9.209 min
Delta R.T.: -0.010 min
Response: 17428494
Conc: 15.54 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP110124\
Data File : PP068344.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 Nov 2024 14:55
Operator : YP\AJ
Sample : PB164590BL
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
ECD_P
ClientSampleId :
PB164590BL

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 04 00:43:59 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP100824.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Oct 09 05:48:32 2024
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...	4.763	4.054	19317559	19437702	20.869	19.238
2)	SA Decachlor...	10.682	9.213	26602737	25397885	23.107	22.647
	Target Compounds						

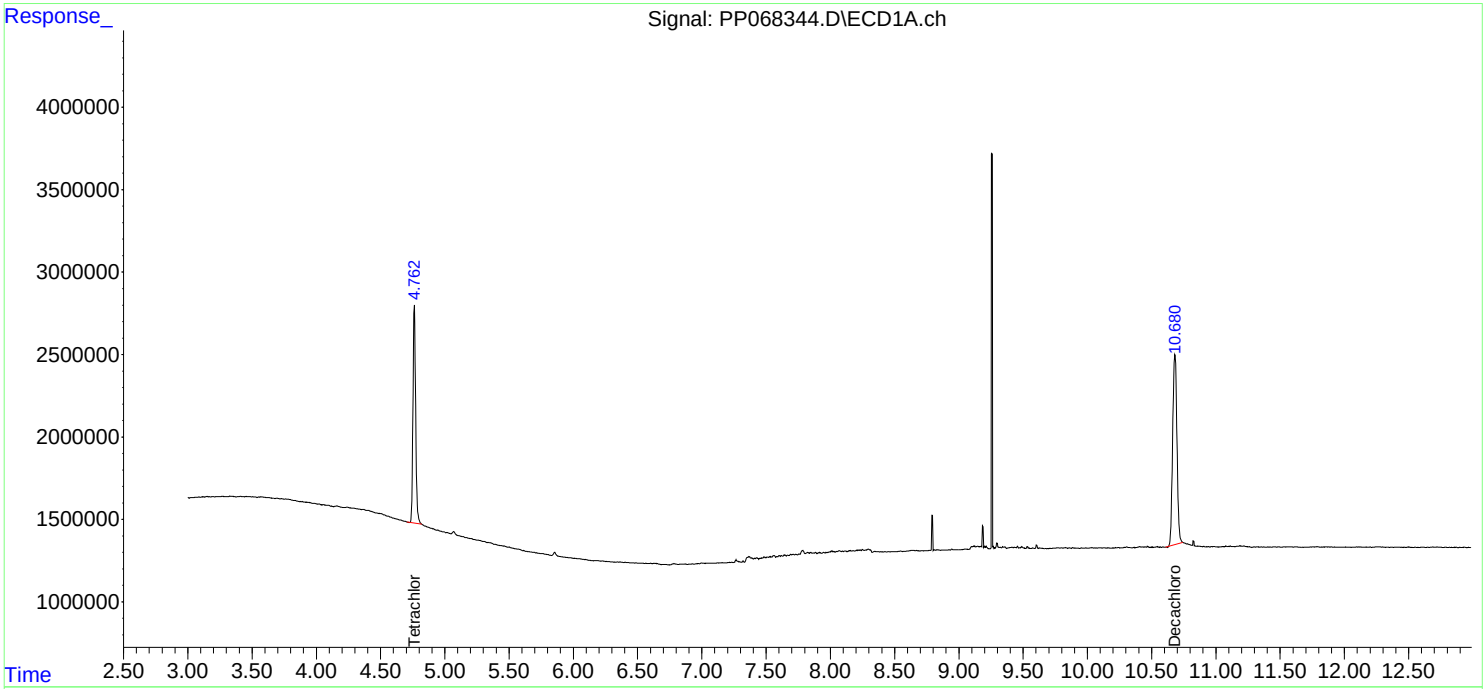
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

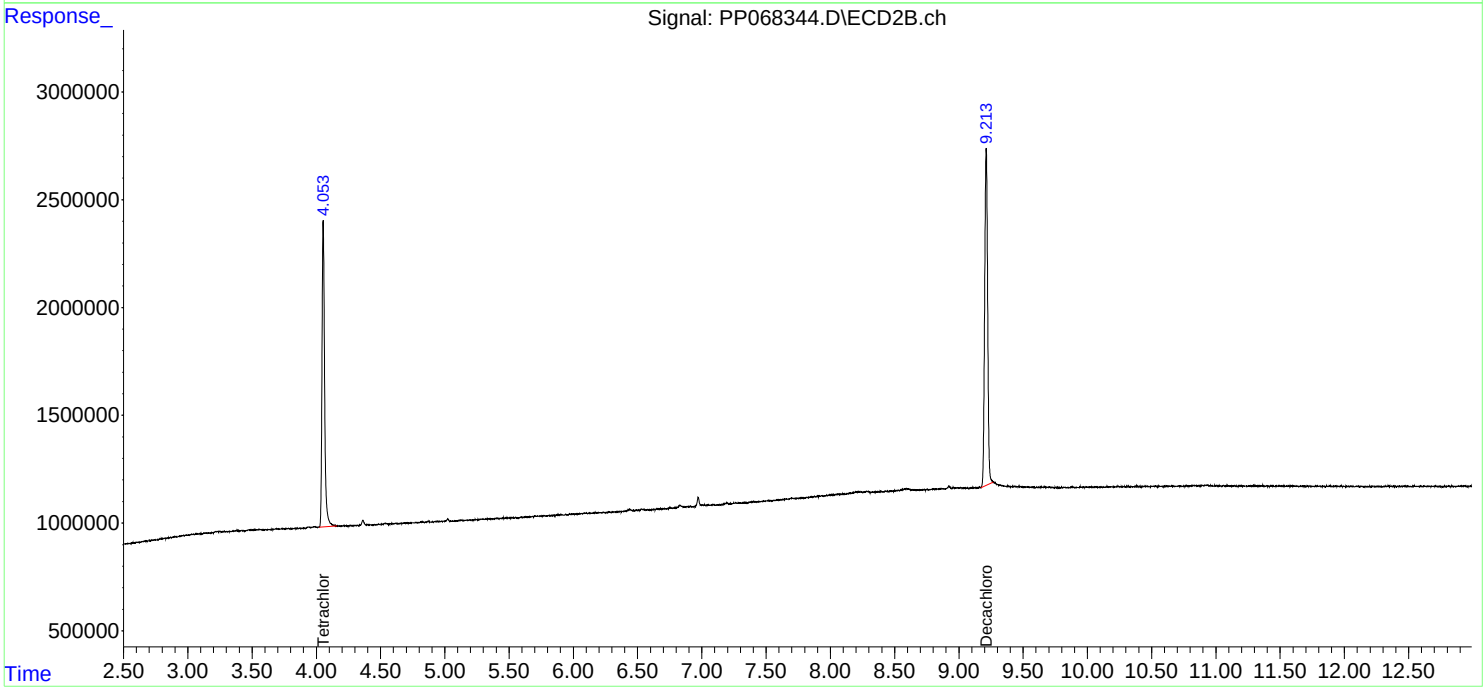
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP110124\
Data File : PP068344.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 Nov 2024 14:55
Operator : YP\AJ
Sample : PB164590BL
Misc :
ALS Vial : 7 Sample Multiplier: 1

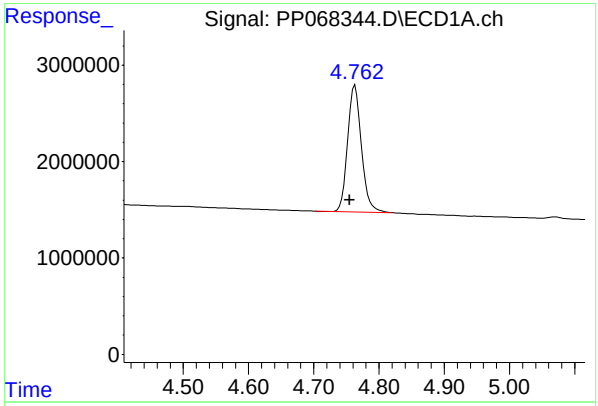
Instrument :
ECD_P
ClientSampleId :
PB164590BL

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 04 00:43:59 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP100824.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Oct 09 05:48:32 2024
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



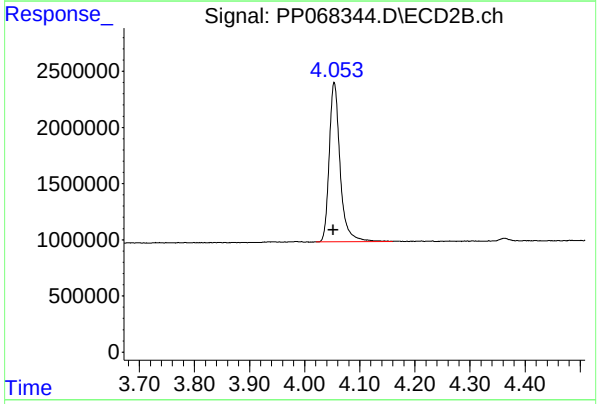




#1 Tetrachloro-m-xylene

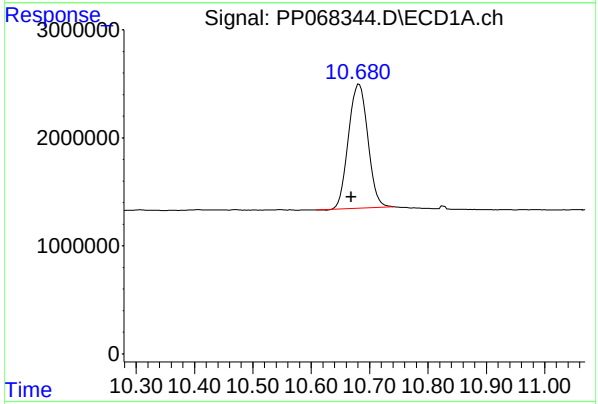
R.T.: 4.763 min
Delta R.T.: 0.008 min
Response: 19317559
Conc: 20.87 ng/ml

Instrument :
ECD_P
ClientSampleId :
PB164590BL



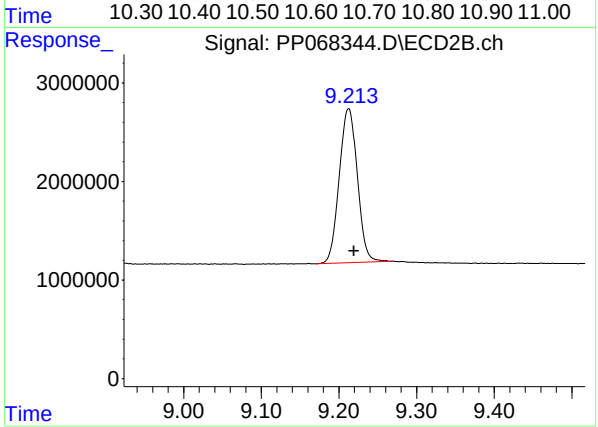
#1 Tetrachloro-m-xylene

R.T.: 4.054 min
Delta R.T.: 0.002 min
Response: 19437702
Conc: 19.24 ng/ml



#2 Decachlorobiphenyl

R.T.: 10.682 min
Delta R.T.: 0.013 min
Response: 26602737
Conc: 23.11 ng/ml



#2 Decachlorobiphenyl

R.T.: 9.213 min
Delta R.T.: -0.007 min
Response: 25397885
Conc: 22.65 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP110124\
Data File : PP068345.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 Nov 2024 15:11
Operator : YP\AJ
Sample : PB164590BS
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
ECD_P
ClientSampleId :
PB164590BS

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 04 00:44:31 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP100824.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Oct 09 05:48:32 2024
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...	4.761	4.055	19412421	19801100	20.972	19.597
2)	SA Decachlor...	10.679	9.213	26828761	24824387	23.303	22.136
	Target Compounds						
3)	L1 AR-1016-1	5.926	5.161	15895830	14241675	480.720	407.053
4)	L1 AR-1016-2	5.948	5.181	23549461	20032499	482.859	415.883
5)	L1 AR-1016-3	6.011	5.362	15659222	11139411	496.930	413.528
6)	L1 AR-1016-4	6.110	5.400	11944497	9979509	463.979	414.344
7)	L1 AR-1016-5	6.404	5.619	11528999	12365842	425.945	406.639
31)	L7 AR-1260-1	7.528	6.663	24792052	24404000	458.911	428.426
32)	L7 AR-1260-2	7.780	6.849	28347851	28491402	448.040	427.129
33)	L7 AR-1260-3	8.142	7.007	20858764	27507689	402.300	431.824
34)	L7 AR-1260-4	8.380	7.482	25463553	21042129	423.022	380.559
35)	L7 AR-1260-5	8.718	7.720	43902210	46430189	407.588	379.646

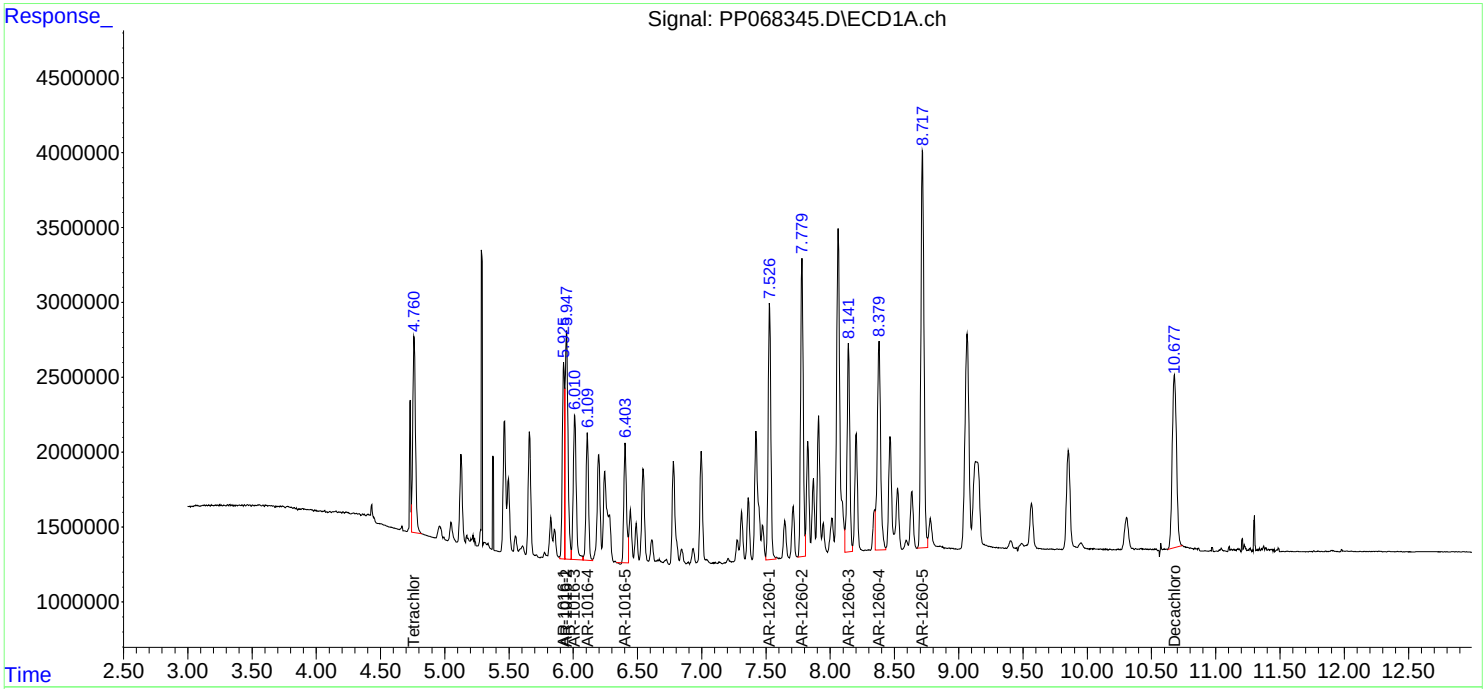
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

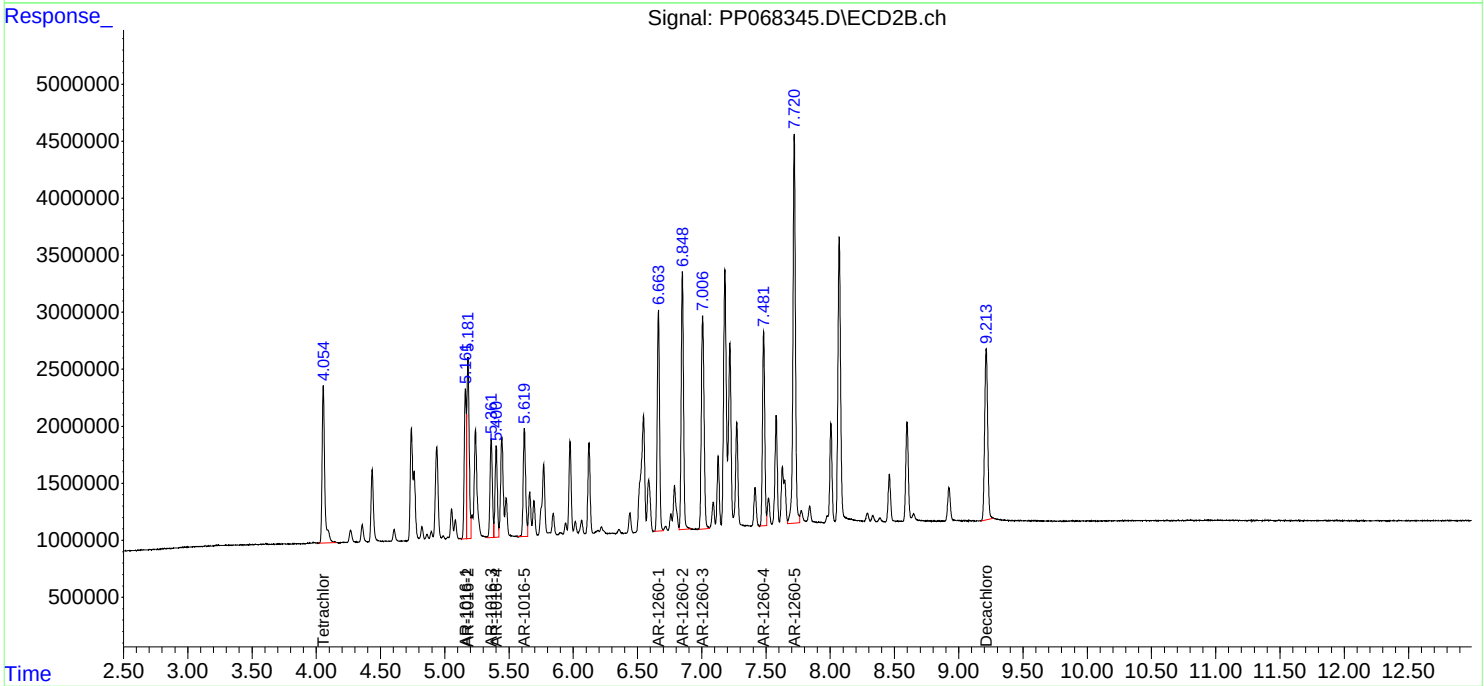
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP110124\
Data File : PP068345.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 Nov 2024 15:11
Operator : YP\AJ
Sample : PB164590BS
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
ECD_P
ClientSampleId :
PB164590BS

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 04 00:44:31 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP100824.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Oct 09 05:48:32 2024
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





Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP110124\
Data File : PP068349.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 Nov 2024 16:17
Operator : YP\AJ
Sample : P4663-02MS
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
ECD_P
ClientSampleId :
TENNANT-PAD-2-3-STOCKPILEMS

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/04/2024
Supervised By :Ankita Jodhani 11/04/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 04 00:47:04 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP100824.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Oct 09 05:48:32 2024
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...	4.759	4.051	19766748	20080667	21.355	19.874
2)	SA Decachlor...	10.675	9.211	22650194	18613586	19.674	16.598
	Target Compounds						
3)	L1 AR-1016-1	5.924	5.159	16775357	15745418	507.319	450.033
4)	L1 AR-1016-2	5.946	5.179	23913381	21689588	490.321	450.285
5)	L1 AR-1016-3	6.010	5.359	15036389	12437843	477.165	461.730
6)	L1 AR-1016-4	6.108	5.398	12268463	10541382	476.563	437.672
7)	L1 AR-1016-5	6.402	5.616	12666393	11869753	467.966	390.326m
31)	L7 AR-1260-1	7.525	6.660	23283248	22760928	430.982	399.581
32)	L7 AR-1260-2	7.778	6.846	27976255	26043558	442.167	390.432
33)	L7 AR-1260-3	8.140	7.004	17996980	24922118	347.105	391.235
34)	L7 AR-1260-4	8.378	7.478	23078547	18971706	383.400	343.114
35)	L7 AR-1260-5	8.715	7.717	41018557	42505625	380.817	347.556

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

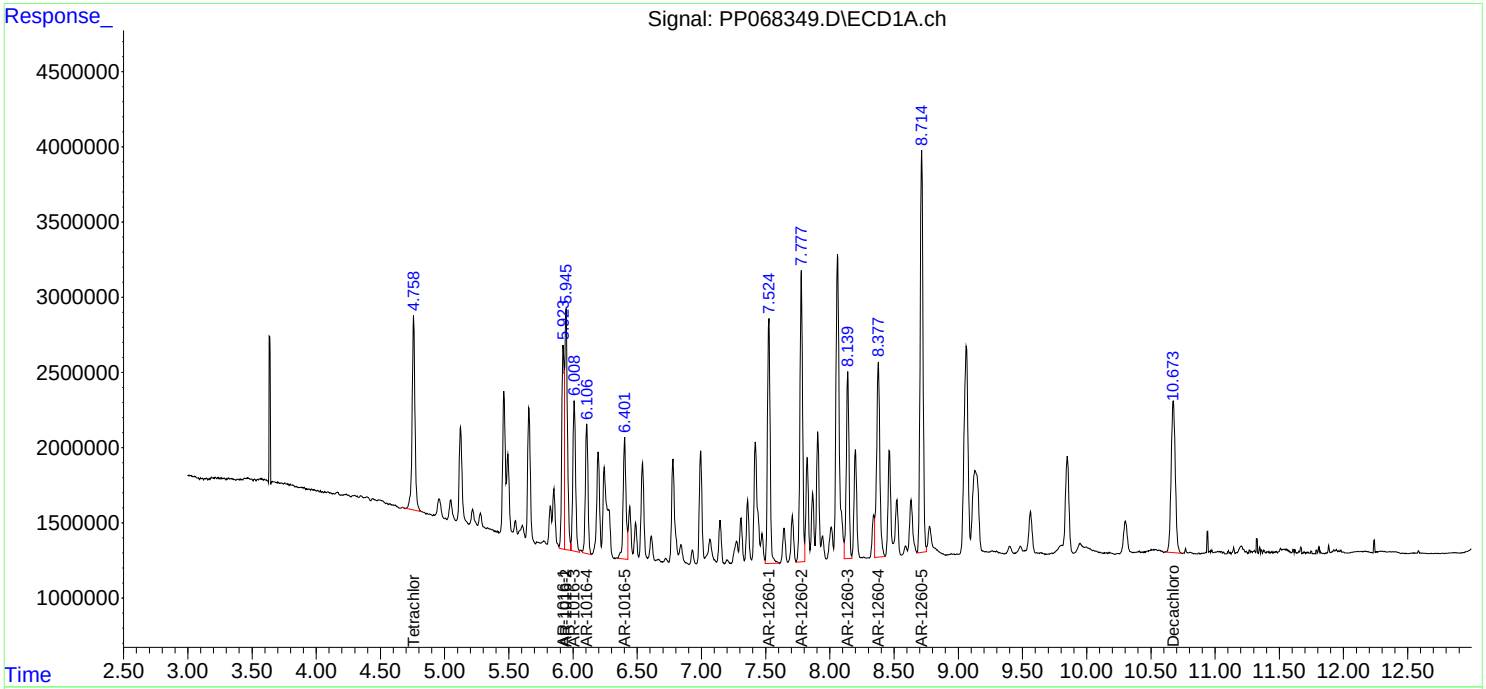
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP110124\
Data File : PP068349.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 Nov 2024 16:17
Operator : YP\AJ
Sample : P4663-02MS
Misc :
ALS Vial : 12 Sample Multiplier: 1

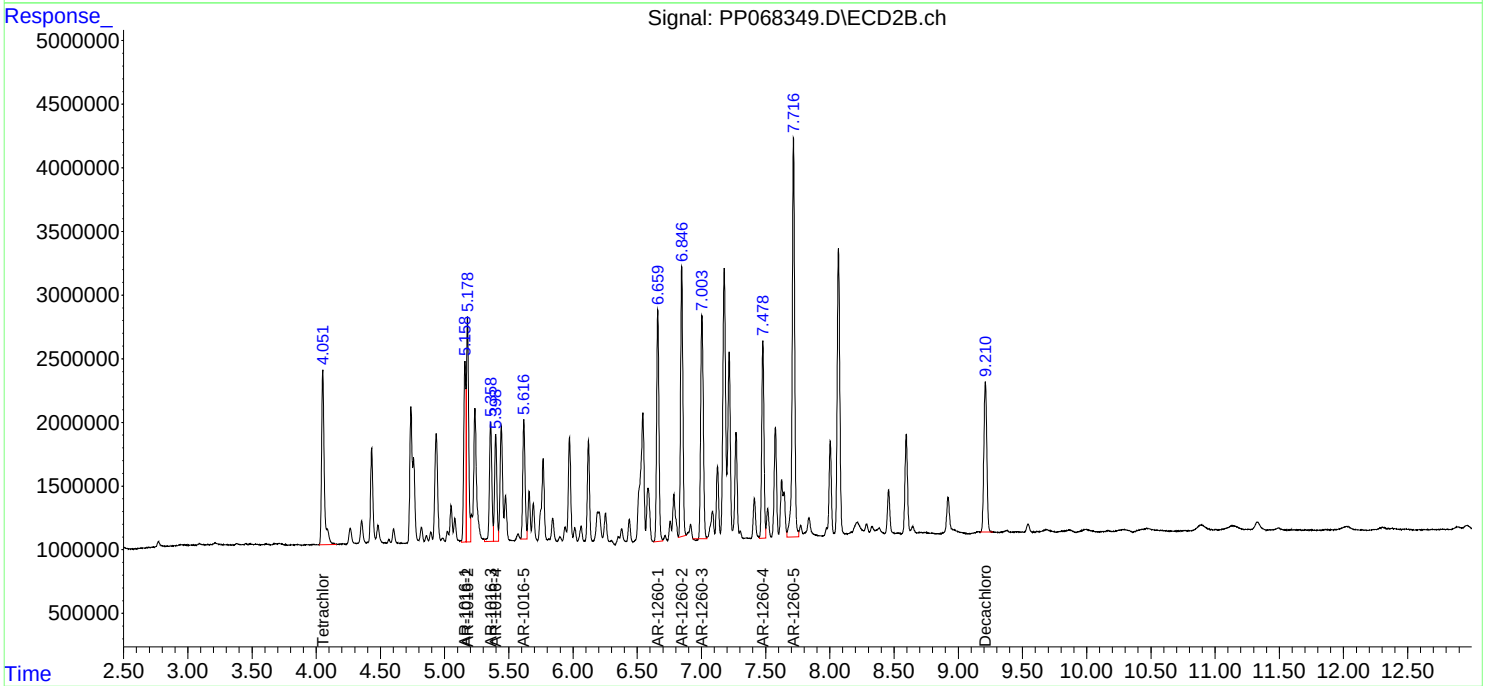
Instrument :
ECD_P
ClientSampleId :
TENNANT-PAD-2-3-STOCKPILEMS

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 11/04/2024
Supervised By :Ankita Jodhani 11/04/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 04 00:47:04 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP100824.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Oct 09 05:48:32 2024
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\PP110124\
Data File : PP068350.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 Nov 2024 16:33
Operator : YP\AJ
Sample : P4663-02MSD
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
ECD_P
ClientSampleId :
TENNANT-PAD-2-3-STOCKPILEMSD

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/04/2024
Supervised By :Ankita Jodhani 11/04/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 04 00:47:41 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP100824.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Oct 09 05:48:32 2024
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...	4.759	4.052	19963207	20444999	21.567	20.235
2)	SA Decachlor...	10.675	9.210	22107769	18462885	19.202	16.463
	Target Compounds						
3)	L1 AR-1016-1	5.923	5.159	16693669	15797615	504.849	451.525
4)	L1 AR-1016-2	5.946	5.179	24064858	21665965	493.427	449.795
5)	L1 AR-1016-3	6.009	5.359	15106295	12337388	479.383	458.001
6)	L1 AR-1016-4	6.107	5.399	12411058	10599623	482.102	440.090
7)	L1 AR-1016-5	6.401	5.617	12834228	12282157	474.167	403.887m
31)	L7 AR-1260-1	7.525	6.661	23317654	22931304	431.619	402.572
32)	L7 AR-1260-2	7.778	6.847	28006390	26339467	442.643	394.869
33)	L7 AR-1260-3	8.140	7.004	18244118	25551238	351.871	401.111
34)	L7 AR-1260-4	8.378	7.479	22799124	18607383	378.758	336.525
35)	L7 AR-1260-5	8.716	7.717	41214066	41858704	382.632	342.267

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

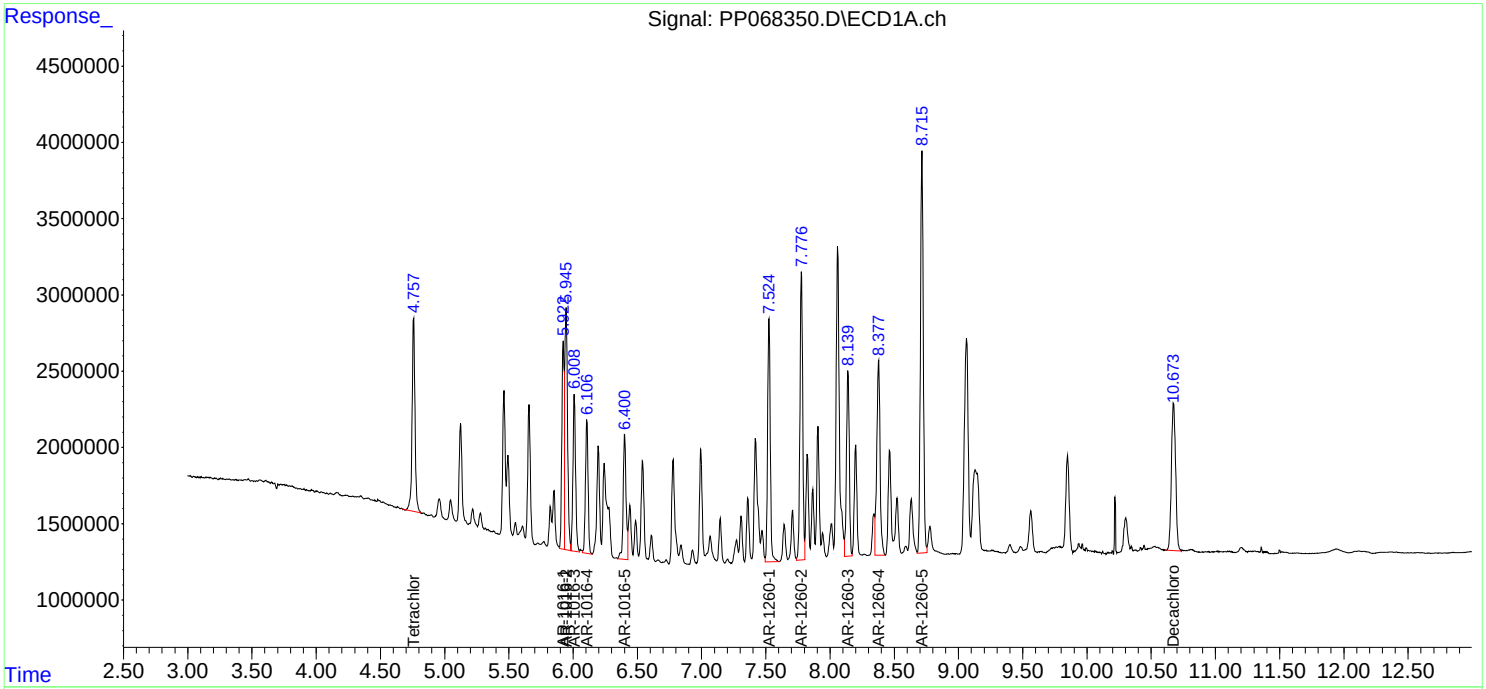
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP110124\
Data File : PP068350.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 Nov 2024 16:33
Operator : YP\AJ
Sample : P4663-02MSD
Misc :
ALS Vial : 13 Sample Multiplier: 1

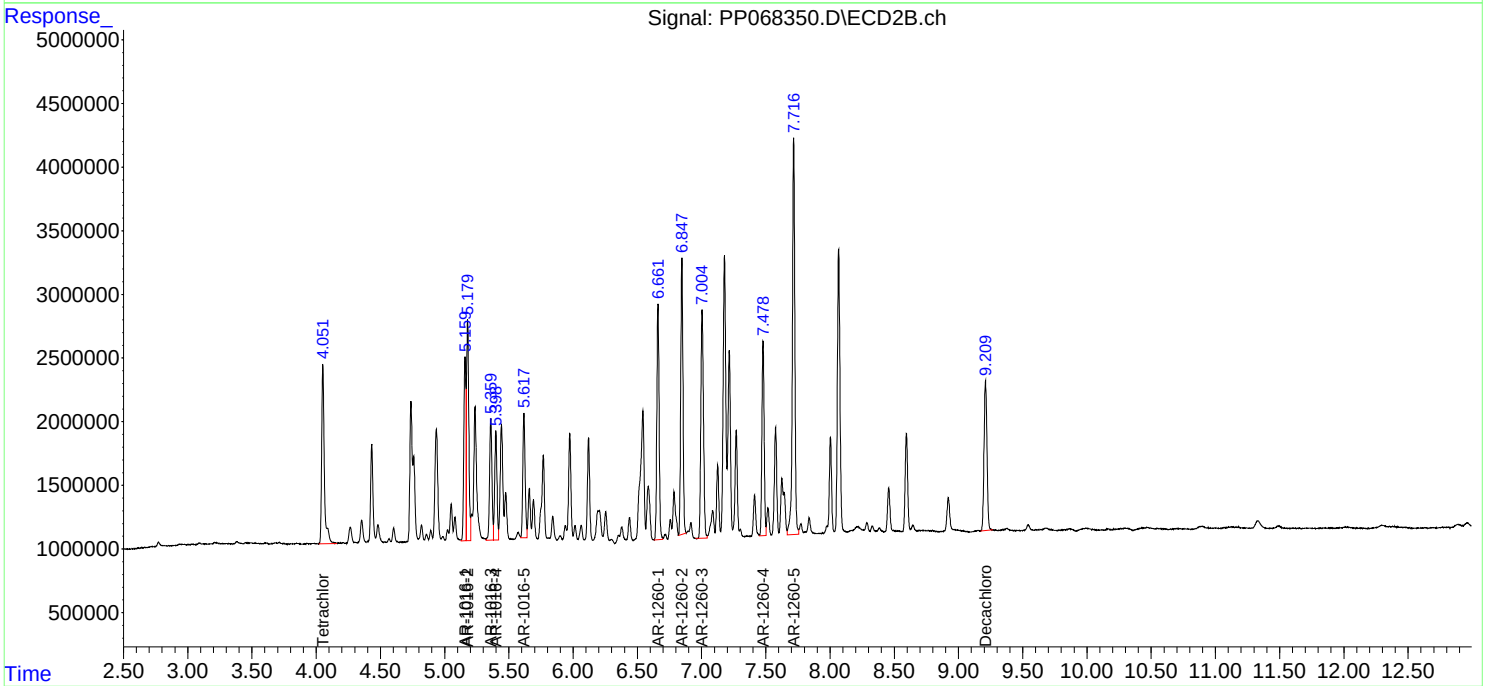
Instrument :
ECD_P
ClientSampleId :
TENNANT-PAD-2-3-STOCKPILEMSD

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 11/04/2024
Supervised By :Ankita Jodhani 11/04/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 04 00:47:41 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP100824.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Oct 09 05:48:32 2024
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:	pp100824	Instrument	ECD_p

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
AR1660ICC250	PP067590.D	AR-1016-5 #2	yogesh	10/9/2024 8:24:09 AM	Ankita	10/9/2024 9:46:08	Peak Integrated by Software
AR1660ICC050	PP067591.D	AR-1016-5 #2	yogesh	10/9/2024 8:24:11 AM	Ankita	10/9/2024 9:46:09	Peak Integrated by Software
AR1242ICC500	PP067596.D	Tetrachloro-m-xylene	yogesh	10/9/2024 8:24:13 AM	Ankita	10/9/2024 9:46:11	Peak Integrated by Software
AR1242ICC050	PP067598.D	Tetrachloro-m-xylene	yogesh	10/9/2024 8:24:16 AM	Ankita	10/9/2024 9:46:12	Peak Integrated by Software
AR1254ICC750	PP067605.D	AR-1254-5	yogesh	10/9/2024 8:24:18 AM	Ankita	10/9/2024 9:46:13	Peak Integrated by Software
AR1254ICC500	PP067606.D	AR-1254-5	yogesh	10/9/2024 8:24:20 AM	Ankita	10/9/2024 9:46:15	Peak Integrated by Software
AR1254ICC050	PP067608.D	AR-1254-1	yogesh	10/9/2024 8:24:22 AM	Ankita	10/9/2024 9:48:32	Peak Integrated by Software
AR1254ICC050	PP067608.D	AR-1254-4 #2	yogesh	10/9/2024 8:24:22 AM	Ankita	10/9/2024 9:48:32	Peak Integrated by Software
AR1262ICC500	PP067609.D	AR-1262-3	yogesh	10/9/2024 8:24:24 AM	Ankita	10/9/2024 9:48:33	Peak Integrated by Software
AR1268ICC1000	PP067610.D	AR-1268-1	yogesh	10/9/2024 8:24:27 AM	Ankita	10/9/2024 9:48:35	Peak Integrated by Software
AR1268ICC1000	PP067610.D	AR-1268-1 #2	yogesh	10/9/2024 8:24:27 AM	Ankita	10/9/2024 9:48:35	Peak Integrated by Software
AR1268ICC750	PP067611.D	AR-1268-1	yogesh	10/9/2024 8:24:29 AM	Ankita	10/9/2024 9:48:36	Peak Integrated by Software
AR1268ICC750	PP067611.D	AR-1268-1 #2	yogesh	10/9/2024 8:24:29 AM	Ankita	10/9/2024 9:48:36	Peak Integrated by Software

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Manual Integration Report

Sequence:	pp100824	Instrument	ECD_p

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
AR1268ICC500	PP067612.D	AR-1268-1	yogesh	10/9/2024 8:24:31 AM	Ankita	10/9/2024 9:48:38	Peak Integrated by Software
AR1268ICC500	PP067612.D	AR-1268-1 #2	yogesh	10/9/2024 8:24:31 AM	Ankita	10/9/2024 9:48:38	Peak Integrated by Software
AR1268ICC250	PP067613.D	AR-1268-1	yogesh	10/9/2024 8:24:33 AM	Ankita	10/9/2024 9:48:39	Peak Integrated by Software
AR1268ICC250	PP067613.D	AR-1268-1 #2	yogesh	10/9/2024 8:24:33 AM	Ankita	10/9/2024 9:48:39	Peak Integrated by Software
AR1268ICC050	PP067614.D	AR-1268-1	yogesh	10/9/2024 8:24:35 AM	Ankita	10/9/2024 9:48:41	Peak Integrated by Software
AR1268ICC050	PP067614.D	AR-1268-1 #2	yogesh	10/9/2024 8:24:35 AM	Ankita	10/9/2024 9:48:41	Peak Integrated by Software
AR1242ICV500	PP067616.D	AR-1242-1 #2	yogesh	10/9/2024 8:24:36 AM	Ankita	10/9/2024 9:48:43	Peak Integrated by Software
AR1242ICV500	PP067616.D	AR-1242-2 #2	yogesh	10/9/2024 8:24:36 AM	Ankita	10/9/2024 9:48:43	Peak Integrated by Software
AR1254ICV500	PP067618.D	AR-1254-4 #2	yogesh	10/9/2024 8:24:38 AM	Ankita	10/9/2024 9:48:44	Peak Integrated by Software
AR1254ICV500	PP067618.D	AR-1254-5	yogesh	10/9/2024 8:24:38 AM	Ankita	10/9/2024 9:48:44	Peak Integrated by Software
AR1268ICV500	PP067619.D	AR-1268-1	yogesh	10/9/2024 8:24:40 AM	Ankita	10/9/2024 9:48:46	Peak Integrated by Software
AR1268ICV500	PP067619.D	AR-1268-1 #2	yogesh	10/9/2024 8:24:40 AM	Ankita	10/9/2024 9:48:46	Peak Integrated by Software

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Manual Integration Report

Sequence:	pp100824	Instrument	ECD_p

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

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

Manual Integration Report

Sequence:	PP110124	Instrument	ECD_p

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
AR1242CCC500	PP068340.D	AR-1242-2	Yogesh	11/4/2024 9:46:40 AM	Ankita	11/4/2024 10:04:32	Peak Integrated by Software
AR1254CCC500	PP068342.D	AR-1254-1	Yogesh	11/4/2024 9:46:41 AM	Ankita	11/4/2024 10:04:34	Peak Integrated by Software
AR1254CCC500	PP068342.D	AR-1254-5	Yogesh	11/4/2024 9:46:41 AM	Ankita	11/4/2024 10:04:34	Peak Integrated by Software
I.BLK	PP068343.D	Decachlorobiphenyl	Yogesh	11/4/2024 9:46:43 AM	Ankita	11/4/2024 10:04:36	Peak Integrated by Software
P4663-02MS	PP068349.D	AR-1016-5 #2	Yogesh	11/4/2024 9:46:45 AM	Ankita	11/4/2024 10:04:39	Peak Integrated by Software
P4663-02MSD	PP068350.D	AR-1016-5 #2	Yogesh	11/4/2024 9:46:47 AM	Ankita	11/4/2024 10:04:40	Peak Integrated by Software
AR1254CCC500	PP068357.D	AR-1254-1	Yogesh	11/4/2024 9:46:48 AM	Ankita	11/4/2024 10:04:42	Peak Integrated by Software
AR1254CCC500	PP068357.D	AR-1254-5	Yogesh	11/4/2024 9:46:48 AM	Ankita	11/4/2024 10:04:42	Peak Integrated by Software

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Fax : 908 789 8922

Instrument ID: ECD_P

Daily Analysis Runlog For Sequence/QCBatch ID # PP100824

Review By	yogesh	Review On	10/9/2024 8:24:57 AM		
Supervise By	Ankita	Supervise On	10/9/2024 9:49:08 AM		
SubDirectory	PP100824	HP Acquire Method		HP Processing Method	PP100824

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23735,PP23736,PP23737,PP23738,PP23739,PP23740,PP23741,PP23742,PP23743,PP23744,PP23745,PP23747,PP23748,PP23749,PP23750 ,PP23751,PP23752,PP23753,PP23754,PP23755,PP23756,PP23757,PP23758,PP23759,PP23760,PP23761,PP23762,PP23763,PP23764,PP2376 5,PP23766,PP23767,PP23768,PP23769,PP23770,PP23771,PP23772,PP23773,PP23774,PP23775
CCC	PP23737,PP23742,PP23749,PP23754,PP23758,PP23763,PP23768,PP23773
Internal Standard/PEM	
ICV/I.BLK	PP23778,PP23780,PP23783,PP23784,PP23786,PP23788,PP23790,PP23792
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	HEXANE	PP067585.D	08 Oct 2024 15:58	YP\AJ	Ok
2	I.BLK	PP067586.D	08 Oct 2024 16:14	YP\AJ	Ok
3	AR1660ICC1000	PP067587.D	08 Oct 2024 16:30	YP\AJ	Ok
4	AR1660ICC750	PP067588.D	08 Oct 2024 16:46	YP\AJ	Ok
5	AR1660ICC500	PP067589.D	08 Oct 2024 17:02	YP\AJ	Ok
6	AR1660ICC250	PP067590.D	08 Oct 2024 17:19	YP\AJ	Ok,M
7	AR1660ICC050	PP067591.D	08 Oct 2024 17:35	YP\AJ	Ok,M
8	AR1221ICC500	PP067592.D	08 Oct 2024 17:51	YP\AJ	Ok
9	AR1232ICC500	PP067593.D	08 Oct 2024 18:07	YP\AJ	Ok
10	AR1242ICC1000	PP067594.D	08 Oct 2024 18:23	YP\AJ	Ok
11	AR1242ICC750	PP067595.D	08 Oct 2024 18:39	YP\AJ	Ok
12	AR1242ICC500	PP067596.D	08 Oct 2024 18:55	YP\AJ	Ok,M
13	AR1242ICC250	PP067597.D	08 Oct 2024 19:12	YP\AJ	Ok
14	AR1242ICC050	PP067598.D	08 Oct 2024 19:28	YP\AJ	Ok,M
15	AR1248ICC1000	PP067599.D	08 Oct 2024 19:44	YP\AJ	Ok
16	AR1248ICC750	PP067600.D	08 Oct 2024 20:00	YP\AJ	Ok
17	AR1248ICC500	PP067601.D	08 Oct 2024 20:16	YP\AJ	Ok
18	AR1248ICC250	PP067602.D	08 Oct 2024 20:32	YP\AJ	Ok
19	AR1248ICC050	PP067603.D	08 Oct 2024 20:49	YP\AJ	Ok
20	AR1254ICC1000	PP067604.D	08 Oct 2024 21:05	YP\AJ	Ok
21	AR1254ICC750	PP067605.D	08 Oct 2024 21:21	YP\AJ	Ok,M

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Fax : 908 789 8922

Instrument ID: ECD_P

Daily Analysis Runlog For Sequence/QCBatch ID # PP100824

Review By	yogesh	Review On	10/9/2024 8:24:57 AM		
Supervise By	Ankita	Supervise On	10/9/2024 9:49:08 AM		
SubDirectory	PP100824	HP Acquire Method		HP Processing Method	PP100824

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23735,PP23736,PP23737,PP23738,PP23739,PP23740,PP23741,PP23742,PP23743,PP23744,PP23745,PP23747,PP23748,PP23749,PP23750,PP23751,PP23752,PP23753,PP23754,PP23755,PP23756,PP23757,PP23758,PP23759,PP23760,PP23761,PP23762,PP23763,PP23764,PP23765,PP23766,PP23767,PP23768,PP23769,PP23770,PP23771,PP23772,PP23773,PP23774,PP23775
CCC	PP23737,PP23742,PP23749,PP23754,PP23758,PP23763,PP23768,PP23773
Internal Standard/PEM	
ICV/I.BLK	PP23778,PP23780,PP23783,PP23784,PP23786,PP23788,PP23790,PP23792
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	AR1254ICC500	PP067606.D	08 Oct 2024 21:37	YP\AJ	Ok,M
23	AR1254ICC250	PP067607.D	08 Oct 2024 21:53	YP\AJ	Ok
24	AR1254ICC050	PP067608.D	08 Oct 2024 22:09	YP\AJ	Ok,M
25	AR1262ICC500	PP067609.D	08 Oct 2024 22:25	YP\AJ	Ok,M
26	AR1268ICC1000	PP067610.D	08 Oct 2024 22:42	YP\AJ	Ok,M
27	AR1268ICC750	PP067611.D	08 Oct 2024 22:58	YP\AJ	Ok,M
28	AR1268ICC500	PP067612.D	08 Oct 2024 23:14	YP\AJ	Ok,M
29	AR1268ICC250	PP067613.D	08 Oct 2024 23:30	YP\AJ	Ok,M
30	AR1268ICC050	PP067614.D	08 Oct 2024 23:46	YP\AJ	Ok,M
31	PP100824ICV500	PP067615.D	09 Oct 2024 00:02	YP\AJ	Ok
32	AR1242ICV500	PP067616.D	09 Oct 2024 00:18	YP\AJ	Ok,M
33	AR1248ICV500	PP067617.D	09 Oct 2024 00:34	YP\AJ	Ok
34	AR1254ICV500	PP067618.D	09 Oct 2024 00:51	YP\AJ	Ok,M
35	AR1268ICV500	PP067619.D	09 Oct 2024 01:07	YP\AJ	Ok,M

M : Manual Integration

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 # PP110124

Review By	yogesh	Review On	11/1/2024 12:50:20 PM		
Supervise By	Ankita	Supervise On	11/4/2024 10:04:49 AM		
SubDirectory	PP110124	HP Acquire Method		HP Processing Method	PO100824

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23735,PP23736,PP23737,PP23738,PP23739,PP23740,PP23741,PP23742,PP23743,PP23744,PP23745,PP23747,PP23748,PP23749,PP23750 ,PP23751,PP23752,PP23753,PP23754,PP23755,PP23756,PP23757,PP23758,PP23759,PP23760,PP23761,PP23762,PP23763,PP23764,PP2376 5,PP23766,PP23767,PP23768,PP23769,PP23770,PP23771,PP23772,PP23773,PP23774,PP23775
CCC	PP23737,PP23742,PP23749,PP23754,PP23758,PP23763,PP23768,PP23773
Internal Standard/PEM	
ICV/I.BLK	PP23778,PP23780,PP23783,PP23784,PP23786,PP23788,PP23790
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	HEXANE	PP068338.D	01 Nov 2024 10:20	YP\AJ	Ok
2	AR1660CCC500	PP068339.D	01 Nov 2024 10:36	YP\AJ	Ok
3	AR1242CCC500	PP068340.D	01 Nov 2024 10:56	YP\AJ	Ok,M
4	AR1248CCC500	PP068341.D	01 Nov 2024 11:12	YP\AJ	Ok
5	AR1254CCC500	PP068342.D	01 Nov 2024 11:29	YP\AJ	Ok,M
6	I.BLK	PP068343.D	01 Nov 2024 11:53	YP\AJ	Ok,M
7	PB164590BL	PP068344.D	01 Nov 2024 14:55	YP\AJ	Ok
8	PB164590BS	PP068345.D	01 Nov 2024 15:11	YP\AJ	Ok
9	P4645-01	PP068346.D	01 Nov 2024 15:27	YP\AJ	Ok,M
10	P4659-01	PP068347.D	01 Nov 2024 15:44	YP\AJ	Ok
11	P4663-02	PP068348.D	01 Nov 2024 16:00	YP\AJ	Ok
12	P4663-02MS	PP068349.D	01 Nov 2024 16:17	YP\AJ	Ok,M
13	P4663-02MSD	PP068350.D	01 Nov 2024 16:33	YP\AJ	Ok,M
14	P4663-04	PP068351.D	01 Nov 2024 16:50	YP\AJ	Ok
15	P4663-06	PP068352.D	01 Nov 2024 17:06	YP\AJ	Ok
16	P4663-08	PP068353.D	01 Nov 2024 17:22	YP\AJ	Ok
17	AR1660CCC500	PP068354.D	01 Nov 2024 18:00	YP\AJ	Ok
18	AR1242CCC500	PP068355.D	01 Nov 2024 18:16	YP\AJ	Ok
19	AR1248CCC500	PP068356.D	01 Nov 2024 18:33	YP\AJ	Ok
20	AR1254CCC500	PP068357.D	01 Nov 2024 18:49	YP\AJ	Ok,M
21	I.BLK	PP068358.D	01 Nov 2024 19:05	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 # PP100824

Review By	yogesh	Review On	10/9/2024 8:24:57 AM		
Supervise By	Ankita	Supervise On	10/9/2024 9:49:08 AM		
SubDirectory	PP100824	HP Acquire Method		HP Processing Method	PP100824

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23735,PP23736,PP23737,PP23738,PP23739,PP23740,PP23741,PP23742,PP23743,PP23744,PP23745,PP23747,PP23748,PP23749,PP23750,PP23751,PP23752,PP23753,PP23754,PP23755,PP23756,PP23757,PP23758,PP23759,PP23760,PP23761,PP23762,PP23763,PP23764,PP23765,PP23766,PP23767,PP23768,PP23769,PP23770,PP23771,PP23772,PP23773,PP23774,PP23775
CCC	PP23737,PP23742,PP23749,PP23754,PP23758,PP23763,PP23768,PP23773
Internal Standard/PEM	
ICV/I.BLK	PP23778,PP23780,PP23783,PP23784,PP23786,PP23788,PP23790,PP23792
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	HEXANE	HEXANE	PP067585.D	08 Oct 2024 15:58		YP\AJ	Ok
2	I.BLK	I.BLK	PP067586.D	08 Oct 2024 16:14		YP\AJ	Ok
3	AR1660ICC1000	AR1660ICC1000	PP067587.D	08 Oct 2024 16:30		YP\AJ	Ok
4	AR1660ICC750	AR1660ICC750	PP067588.D	08 Oct 2024 16:46		YP\AJ	Ok
5	AR1660ICC500	AR1660ICC500	PP067589.D	08 Oct 2024 17:02		YP\AJ	Ok
6	AR1660ICC250	AR1660ICC250	PP067590.D	08 Oct 2024 17:19		YP\AJ	Ok,M
7	AR1660ICC050	AR1660ICC050	PP067591.D	08 Oct 2024 17:35		YP\AJ	Ok,M
8	AR1221ICC500	AR1221ICC500	PP067592.D	08 Oct 2024 17:51		YP\AJ	Ok
9	AR1232ICC500	AR1232ICC500	PP067593.D	08 Oct 2024 18:07		YP\AJ	Ok
10	AR1242ICC1000	AR1242ICC1000	PP067594.D	08 Oct 2024 18:23		YP\AJ	Ok
11	AR1242ICC750	AR1242ICC750	PP067595.D	08 Oct 2024 18:39		YP\AJ	Ok
12	AR1242ICC500	AR1242ICC500	PP067596.D	08 Oct 2024 18:55		YP\AJ	Ok,M
13	AR1242ICC250	AR1242ICC250	PP067597.D	08 Oct 2024 19:12		YP\AJ	Ok
14	AR1242ICC050	AR1242ICC050	PP067598.D	08 Oct 2024 19:28		YP\AJ	Ok,M
15	AR1248ICC1000	AR1248ICC1000	PP067599.D	08 Oct 2024 19:44		YP\AJ	Ok
16	AR1248ICC750	AR1248ICC750	PP067600.D	08 Oct 2024 20:00		YP\AJ	Ok
17	AR1248ICC500	AR1248ICC500	PP067601.D	08 Oct 2024 20:16		YP\AJ	Ok
18	AR1248ICC250	AR1248ICC250	PP067602.D	08 Oct 2024 20:32		YP\AJ	Ok

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Fax : 908 789 8922

Instrument ID: ECD_P

Daily Analysis Runlog For Sequence/QCBatch ID # PP100824

Review By	yogesh	Review On	10/9/2024 8:24:57 AM		
Supervise By	Ankita	Supervise On	10/9/2024 9:49:08 AM		
SubDirectory	PP100824	HP Acquire Method		HP Processing Method	PP100824

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23735,PP23736,PP23737,PP23738,PP23739,PP23740,PP23741,PP23742,PP23743,PP23744,PP23745,PP23747,PP23748,PP23749,PP23750,PP23751,PP23752,PP23753,PP23754,PP23755,PP23756,PP23757,PP23758,PP23759,PP23760,PP23761,PP23762,PP23763,PP23764,PP23765,PP23766,PP23767,PP23768,PP23769,PP23770,PP23771,PP23772,PP23773,PP23774,PP23775
CCC	PP23737,PP23742,PP23749,PP23754,PP23758,PP23763,PP23768,PP23773
Internal Standard/PEM	
ICV/I.BLK	PP23778,PP23780,PP23783,PP23784,PP23786,PP23788,PP23790,PP23792
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	AR1248ICC050	AR1248ICC050	PP067603.D	08 Oct 2024 20:49		YP\AJ	Ok
20	AR1254ICC1000	AR1254ICC1000	PP067604.D	08 Oct 2024 21:05		YP\AJ	Ok
21	AR1254ICC750	AR1254ICC750	PP067605.D	08 Oct 2024 21:21		YP\AJ	Ok,M
22	AR1254ICC500	AR1254ICC500	PP067606.D	08 Oct 2024 21:37		YP\AJ	Ok,M
23	AR1254ICC250	AR1254ICC250	PP067607.D	08 Oct 2024 21:53		YP\AJ	Ok
24	AR1254ICC050	AR1254ICC050	PP067608.D	08 Oct 2024 22:09		YP\AJ	Ok,M
25	AR1262ICC500	AR1262ICC500	PP067609.D	08 Oct 2024 22:25		YP\AJ	Ok,M
26	AR1268ICC1000	AR1268ICC1000	PP067610.D	08 Oct 2024 22:42		YP\AJ	Ok,M
27	AR1268ICC750	AR1268ICC750	PP067611.D	08 Oct 2024 22:58		YP\AJ	Ok,M
28	AR1268ICC500	AR1268ICC500	PP067612.D	08 Oct 2024 23:14		YP\AJ	Ok,M
29	AR1268ICC250	AR1268ICC250	PP067613.D	08 Oct 2024 23:30		YP\AJ	Ok,M
30	AR1268ICC050	AR1268ICC050	PP067614.D	08 Oct 2024 23:46		YP\AJ	Ok,M
31	PP100824ICV500	ICVPP100824	PP067615.D	09 Oct 2024 00:02		YP\AJ	Ok
32	AR1242ICV500	ICVPP100824AR1242	PP067616.D	09 Oct 2024 00:18		YP\AJ	Ok,M
33	AR1248ICV500	ICVPP100824AR1248	PP067617.D	09 Oct 2024 00:34		YP\AJ	Ok
34	AR1254ICV500	ICVPP100824AR1254	PP067618.D	09 Oct 2024 00:51		YP\AJ	Ok,M
35	AR1268ICV500	ICVPP100824AR1268	PP067619.D	09 Oct 2024 01:07		YP\AJ	Ok,M

M : Manual Integration

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

Instrument ID: ECD_P

Daily Analysis Runlog For Sequence/QCBatch ID # PP110124

Review By	yogesh	Review On	11/1/2024 12:50:20 PM		
Supervise By	Ankita	Supervise On	11/4/2024 10:04:49 AM		
SubDirectory	PP110124	HP Acquire Method		HP Processing Method	PO100824

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23735,PP23736,PP23737,PP23738,PP23739,PP23740,PP23741,PP23742,PP23743,PP23744,PP23745,PP23747,PP23748,PP23749,PP23750,PP23751,PP23752,PP23753,PP23754,PP23755,PP23756,PP23757,PP23758,PP23759,PP23760,PP23761,PP23762,PP23763,PP23764,PP23765,PP23766,PP23767,PP23768,PP23769,PP23770,PP23771,PP23772,PP23773,PP23774,PP23775
CCC	PP23737,PP23742,PP23749,PP23754,PP23758,PP23763,PP23768,PP23773
Internal Standard/PEM	
ICV/I.BLK	PP23778,PP23780,PP23783,PP23784,PP23786,PP23788,PP23790
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	HEXANE	HEXANE	PP068338.D	01 Nov 2024 10:20		YP\AJ	Ok
2	AR1660CCC500	AR1660CCC500	PP068339.D	01 Nov 2024 10:36		YP\AJ	Ok
3	AR1242CCC500	AR1242CCC500	PP068340.D	01 Nov 2024 10:56		YP\AJ	Ok,M
4	AR1248CCC500	AR1248CCC500	PP068341.D	01 Nov 2024 11:12		YP\AJ	Ok
5	AR1254CCC500	AR1254CCC500	PP068342.D	01 Nov 2024 11:29		YP\AJ	Ok,M
6	I.BLK	I.BLK	PP068343.D	01 Nov 2024 11:53		YP\AJ	Ok,M
7	PB164590BL	PB164590BL	PP068344.D	01 Nov 2024 14:55		YP\AJ	Ok
8	PB164590BS	PB164590BS	PP068345.D	01 Nov 2024 15:11		YP\AJ	Ok
9	P4645-01	Z-02-WC	PP068346.D	01 Nov 2024 15:27	AR1260 Hit	YP\AJ	Ok,M
10	P4659-01	MH-2	PP068347.D	01 Nov 2024 15:44		YP\AJ	Ok
11	P4663-02	TENNANT-PAD-2-3-ST	PP068348.D	01 Nov 2024 16:00		YP\AJ	Ok
12	P4663-02MS	TENNANT-PAD-2-3-ST	PP068349.D	01 Nov 2024 16:17		YP\AJ	Ok,M
13	P4663-02MSD	TENNANT-PAD-2-3-ST	PP068350.D	01 Nov 2024 16:33		YP\AJ	Ok,M
14	P4663-04	RES-BUILDING-PAD-N	PP068351.D	01 Nov 2024 16:50		YP\AJ	Ok
15	P4663-06	RES-BUILDING-PAD-N	PP068352.D	01 Nov 2024 17:06		YP\AJ	Ok
16	P4663-08	RES-BUILDING-PAD-N	PP068353.D	01 Nov 2024 17:22		YP\AJ	Ok
17	AR1660CCC500	AR1660CCC500	PP068354.D	01 Nov 2024 18:00		YP\AJ	Ok
18	AR1242CCC500	AR1242CCC500	PP068355.D	01 Nov 2024 18:16		YP\AJ	Ok

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Instrument ID: ECD_P

Daily Analysis Runlog For Sequence/QCBatch ID # PP110124

Review By	yogesh	Review On	11/1/2024 12:50:20 PM		
Supervise By	Ankita	Supervise On	11/4/2024 10:04:49 AM		
SubDirectory	PP110124	HP Acquire Method		HP Processing Method	PO100824

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23735,PP23736,PP23737,PP23738,PP23739,PP23740,PP23741,PP23742,PP23743,PP23744,PP23745,PP23747,PP23748,PP23749,PP23750,PP23751,PP23752,PP23753,PP23754,PP23755,PP23756,PP23757,PP23758,PP23759,PP23760,PP23761,PP23762,PP23763,PP23764,PP23765,PP23766,PP23767,PP23768,PP23769,PP23770,PP23771,PP23772,PP23773,PP23774,PP23775
CCC	PP23737,PP23742,PP23749,PP23754,PP23758,PP23763,PP23768,PP23773
Internal Standard/PEM	
ICV/I.BLK	PP23778,PP23780,PP23783,PP23784,PP23786,PP23788,PP23790
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	AR1248CCC500	AR1248CCC500	PP068356.D	01 Nov 2024 18:33		YP\AJ	Ok
20	AR1254CCC500	AR1254CCC500	PP068357.D	01 Nov 2024 18:49		YP\AJ	Ok,M
21	I.BLK	I.BLK	PP068358.D	01 Nov 2024 19:05		YP\AJ	Ok

M : Manual Integration

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PB164590

SOP ID:	M3541-ASE Extraction-14				
Clean Up SOP #:	Acid Cleanup			**Extraction Start Date :**	11/01/2024
Matrix :	Solid			**Extraction Start Time :**	09:09
Weigh By:	RJ	**Extraction By:**	RJ	**Extraction End Date :**	11/01/2024
Balance check:	RJ	**Filter By:**	RJ	**Extraction End Time :**	14:00
Balance ID:	EX-SC-2	**pH Meter ID:**	N/A	**Concentration By:**	EH
pH Strip Lot#:	N/A	**Hood ID:**	3,7	**Supervisor By :**	rajesh

Extraction Method: ☐ Seperatory Funnel ☐ Continious Liquid/Liquid ☐ Sonication ☐ Waste Dilution ☑ Soxhlet

Standared Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Spike Sol 1	1.0ML	5000 PPB	PP23640
Surrogate	1.0ML	200 PPB	PP23858
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	EP2539
Baked Na2SO4	N/A	EP2554
Hexane	N/A	E3819
Sand	N/A	E2865
H2SO4 1:1	N/A	EP2548
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
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# 03-40BTS721. P4663 All sampled Added in batch at 11 :00.

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
11/01/24	RP (Ext lab)	YP pest IMS
14:05	**Preparation Group**	**Analysis Group**

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PrepBatch ID : PB164590

Analytical Method: M3541-ASE Extraction-14 **Concentration Date:** 11/01/2024

Sample ID	Client Sample ID	Test	g/mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB164590BL	ABLK590	PCB	30.02	N/A	ritesh	RUPESH	10			U1-1
PB164590BS	ALCS590	PCB	30.03	N/A	ritesh	RUPESH	10			2
P4645-01	Z-02-WC	PCB	30.04	N/A	ritesh	RUPESH	10	D		3
P4659-01	MH-2	PCB	30.09	N/A	ritesh	RUPESH	10	D		4
P4663-02	TENNANT-PAD-2-3-STOCKPILE	PCB	30.02	N/A	ritesh	RUPESH	10	D		5
P4663-02MS	TENNANT-PAD-2-3-STOCKPILEMS	PCB	30.06	N/A	ritesh	RUPESH	10	D		6
P4663-02MSD	TENNANT-PAD-2-3-STOCKPILEMSD	PCB	30.05	N/A	ritesh	RUPESH	10	D		U5-1
P4663-04	RES-BUILDING-PAD-NO-11	PCB	30.08	N/A	ritesh	RUPESH	10	D		2
P4663-06	RES-BUILDING-PAD-NO-3	PCB	30.10	N/A	ritesh	RUPESH	10	D		3
P4663-08	RES-BUILDING-PAD-NO-2	PCB	30.06	N/A	ritesh	RUPESH	10	D		4

* **Extracts relinquished on the same date as received.**

11/01/24

164590 11:00 P13

WORKLIST(Hardcopy Internal Chain)

WorkList Name : P4663 **WorkList ID :** 185017 **Department :** Extraction **Date :** 11-01-2024 11:00:04

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4663-02	TENNANT-PAD-2-3-STOCKPIL	Solid	PCB	Cool 4 deg C	UNIO02	K41	10/31/2024	8082A
P4663-02	TENNANT-PAD-2-3-STOCKPIL	Solid	Pesticide-TCL	Cool 4 deg C	UNIO02	K41	10/31/2024	8081B
P4663-02	TENNANT-PAD-2-3-STOCKPIL	Solid	SVOCMS Group1	Cool 4 deg C	UNIO02	K41	10/31/2024	8270E
P4663-04	RES-BUILDING-PAD-NO-11	Solid	PCB	Cool 4 deg C	UNIO02	K41	10/31/2024	8082A
P4663-04	RES-BUILDING-PAD-NO-11	Solid	Pesticide-TCL	Cool 4 deg C	UNIO02	K41	10/31/2024	8081B
P4663-04	RES-BUILDING-PAD-NO-11	Solid	SVOCMS Group1	Cool 4 deg C	UNIO02	K41	10/31/2024	8270E
P4663-06	RES-BUILDING-PAD-NO-3	Solid	PCB	Cool 4 deg C	UNIO02	K41	10/31/2024	8082A
P4663-06	RES-BUILDING-PAD-NO-3	Solid	Pesticide-TCL	Cool 4 deg C	UNIO02	K41	10/31/2024	8081B
P4663-06	RES-BUILDING-PAD-NO-3	Solid	SVOCMS Group1	Cool 4 deg C	UNIO02	K41	10/31/2024	8270E
P4663-08	RES-BUILDING-PAD-NO-2	Solid	PCB	Cool 4 deg C	UNIO02	K41	10/31/2024	8082A
P4663-08	RES-BUILDING-PAD-NO-2	Solid	Pesticide-TCL	Cool 4 deg C	UNIO02	K41	10/31/2024	8081B
P4663-08	RES-BUILDING-PAD-NO-2	Solid	SVOCMS Group1	Cool 4 deg C	UNIO02	K41	10/31/2024	8270E

439 of 995

Date/Time 11/01/24 11:00

Raw Sample Received by: RJ (Ext Tech)

Raw Sample Relinquished by: RM CAM

Date/Time 11/01/24 11:15

Raw Sample Received by: RM CAM

Raw Sample Relinquished by: RJ (Ext Tech)

P4663

16458 9:09

WORKLIST(Hardcopy Internal Chain)

WorkList Name : P4647 **WorkList ID :** 185003 **Department :** Extraction **Date :** 11-01-2024 08:31:00

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4606-01	1	Solid	PCB Group1	Cool 4 deg C	ATCE02	K63	10/26/2024	8082A
P4645-01	Z-02-WC	Solid	PCB	Cool 4 deg C	PSEG03	K63	10/31/2024	8082A
P4659-01	MH-2	Solid	PCB	Cool 4 deg C	PSEG03	K61	10/31/2024	8082A

Date/Time 11/01/24 9:05
Raw Sample Received by: RJ (Ext Lab)
Raw Sample Relinquished by: JD (SRM)

Date/Time 11/01/24 9:20
Raw Sample Received by: JD (SRM)
Raw Sample Relinquished by: RJ (Ext Lab)

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LAB CHRONICLE

OrderID:	P4663	**OrderDate:**	10/31/2024 3:05:00 PM
Client:	Union Paving & Construction Company	**Project:**	Rt. 10 Whippany
Contact:	Gregory Butler	**Location:**	K41,VOA Ref. #2 Soil

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P4663-02	**TENNANT-PAD-2-3-STOCKPILE**	**SOIL**			**10/31/24**			**10/31/24**
			Herbicide	8151A		11/04/24	11/05/24	
			PCB	8082A		11/01/24	11/01/24	
			Pesticide-TCL	8081B		11/01/24	11/01/24	
			TPH GC	8015D		11/01/24	11/01/24	
			EPH_NF	NJEPH		11/01/24	11/02/24	
P4663-04	**RES-BUILDING-PAD-NO-11**	**SOIL**			**10/31/24**			**10/31/24**
			Herbicide	8151A		11/04/24	11/05/24	
			PCB	8082A		11/01/24	11/01/24	
			Pesticide-TCL	8081B		11/01/24	11/01/24	
			TPH GC	8015D		11/01/24	11/01/24	
			EPH_NF	NJEPH		11/01/24	11/02/24	
P4663-06	**RES-BUILDING-PAD-NO-3**	**SOIL**			**10/31/24**			**10/31/24**
			Herbicide	8151A		11/04/24	11/05/24	
			PCB	8082A		11/01/24	11/01/24	
			Pesticide-TCL	8081B		11/01/24	11/01/24	
			TPH GC	8015D		11/01/24	11/01/24	
			EPH_NF	NJEPH		11/01/24	11/02/24	
P4663-08	**RES-BUILDING-PAD-NO-2**	**SOIL**			**10/31/24**			**10/31/24**
			Herbicide	8151A		11/04/24	11/05/24	
			PCB	8082A		11/01/24	11/01/24	
			Pesticide-TCL	8081B		11/01/24	11/01/24	
			TPH GC	8015D		11/01/24	11/01/24	
			EPH_NF	NJEPH		11/01/24	11/02/24	

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Fax : 908 789 8922

Hit Summary Sheet
SW-846

SDG No.: P4663 **Order ID:** P4663

Client: Union Paving & Construction Company **Project ID:** Rt. 10 Whippany

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units

Client ID :

Total Concentration: **0.000**

SAMPLE DATA

Alliance TECHNICAL GROUP
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Fax : 908 789 8922

Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	10/31/24
Project:	Rt. 10 Whippany	Date Received:	10/31/24
Client Sample ID:	TENNANT-PAD-2-3-STOCKPILE	SDG No.:	P4663
Lab Sample ID:	P4663-02	Matrix:	SOIL
Analytical Method:	SW8151A	% Solid:	90.9 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
PS028226.D	1	11/04/24 09:51	11/05/24 21:00	PB164641

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
1918-00-9	DICAMBA	9.50	U	9.50	73.7	ug/Kg
120-36-5	DICHLORPROP	10.5	U	10.5	73.7	ug/Kg
94-75-7	2,4-D	13.3	U	13.3	73.7	ug/Kg
93-72-1	2,4,5-TP (Silvex)	10.3	U	10.3	73.7	ug/Kg
93-76-5	2,4,5-T	11.1	U	11.1	73.7	ug/Kg
94-82-6	2,4-DB	20.1	U	20.1	73.7	ug/Kg
88-85-7	DINOSEB	13.6	U	13.6	73.7	ug/Kg
SURROGATES						
19719-28-9	2,4-DCAA	278	*	70 (10) - 130 (141)	56%	SPK: 500

Comments:

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

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

Alliance TECHNICAL GROUP
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Fax : 908 789 8922

Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	10/31/24
Project:	Rt. 10 Whippany	Date Received:	10/31/24
Client Sample ID:	RES-BUILDING-PAD-NO-11	SDG No.:	P4663
Lab Sample ID:	P4663-04	Matrix:	SOIL
Analytical Method:	SW8151A	% Solid:	91.7 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
PS028227.D	1	11/04/24 09:51	11/05/24 21:24	PB164641

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
1918-00-9	DICAMBA	9.40	U	9.40	73.0	ug/Kg
120-36-5	DICHLORPROP	10.4	U	10.4	73.0	ug/Kg
94-75-7	2,4-D	13.2	U	13.2	73.0	ug/Kg
93-72-1	2,4,5-TP (Silvex)	10.2	U	10.2	73.0	ug/Kg
93-76-5	2,4,5-T	11.0	U	11.0	73.0	ug/Kg
94-82-6	2,4-DB	19.9	U	19.9	73.0	ug/Kg
88-85-7	DINOSEB	13.5	U	13.5	73.0	ug/Kg
SURROGATES						
19719-28-9	2,4-DCAA	269	*	70 (10) - 130 (141)	54%	SPK: 500

Comments:

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

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

Alliance TECHNICAL GROUP
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Fax : 908 789 8922

Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	10/31/24
Project:	Rt. 10 Whippany	Date Received:	10/31/24
Client Sample ID:	RES-BUILDING-PAD-NO-3	SDG No.:	P4663
Lab Sample ID:	P4663-06	Matrix:	SOIL
Analytical Method:	SW8151A	% Solid:	91.2 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
PS028228.D	1	11/04/24 09:51	11/05/24 21:48	PB164641

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
1918-00-9	DICAMBA	9.50	U	9.50	73.3	ug/Kg
120-36-5	DICHLORPROP	10.4	U	10.4	73.3	ug/Kg
94-75-7	2,4-D	13.2	U	13.2	73.3	ug/Kg
93-72-1	2,4,5-TP (Silvex)	10.3	U	10.3	73.3	ug/Kg
93-76-5	2,4,5-T	11.1	U	11.1	73.3	ug/Kg
94-82-6	2,4-DB	20.0	U	20.0	73.3	ug/Kg
88-85-7	DINOSEB	13.6	U	13.6	73.3	ug/Kg
SURROGATES						
19719-28-9	2,4-DCAA	249	*	70 (10) - 130 (141)	50%	SPK: 500

Comments:

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

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

Alliance TECHNICAL GROUP
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Fax : 908 789 8922

Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	10/31/24
Project:	Rt. 10 Whippany	Date Received:	10/31/24
Client Sample ID:	RES-BUILDING-PAD-NO-2	SDG No.:	P4663
Lab Sample ID:	P4663-08	Matrix:	SOIL
Analytical Method:	SW8151A	% Solid:	91.3 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
PS028229.D	1	11/04/24 09:51	11/05/24 22:12	PB164641

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
1918-00-9	DICAMBA	9.50	U	9.50	73.2	ug/Kg
120-36-5	DICHLORPROP	10.4	U	10.4	73.2	ug/Kg
94-75-7	2,4-D	13.2	U	13.2	73.2	ug/Kg
93-72-1	2,4,5-TP (Silvex)	10.3	U	10.3	73.2	ug/Kg
93-76-5	2,4,5-T	11.0	U	11.0	73.2	ug/Kg
94-82-6	2,4-DB	20.0	U	20.0	73.2	ug/Kg
88-85-7	DINOSEB	13.6	U	13.6	73.2	ug/Kg
SURROGATES						
19719-28-9	2,4-DCAA	359		70 (10) - 130 (141)	72%	SPK: 500

Comments:

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

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

QC SUMMARY

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

Surrogate Summary

SDG No.: P4663

Client: Union Paving & Construction Company

Analytical Method: 8151A

Lab Sample ID	Client ID	Parameter	Column	Spike	Result	Rec	Qual	Limits Low	Limits High
I.BLK-PS028217.D	PIBLK-PS028217.D	2,4-DCAA	1	500	506	101		70 (39)	130 (175)
		2,4-DCAA	2	500	449	90		70 (39)	130 (175)
I.BLK-PS028224.D	PIBLK-PS028224.D	2,4-DCAA	1	500	486	97		70 (39)	130 (175)
		2,4-DCAA	2	500	559	112		70 (39)	130 (175)
P4663-02	TENNANT-PAD-2-3-STOCKPILE	2,4-DCAA	1	500	278	56	*	70 (10)	130 (141)
		2,4-DCAA	2	500	253	51	*	70 (10)	130 (141)
P4663-04	RES-BUILDING-PAD-NO-11	2,4-DCAA	1	500	269	54	*	70 (10)	130 (141)
		2,4-DCAA	2	500	247	49	*	70 (10)	130 (141)
P4663-06	RES-BUILDING-PAD-NO-3	2,4-DCAA	1	500	249	50	*	70 (10)	130 (141)
		2,4-DCAA	2	500	194	39	*	70 (10)	130 (141)
P4663-08	RES-BUILDING-PAD-NO-2	2,4-DCAA	1	500	359	72		70 (10)	130 (141)
		2,4-DCAA	2	500	330	66	*	70 (10)	130 (141)
PB164641BL	PB164641BL	2,4-DCAA	1	500	572	114		70 (10)	130 (141)
		2,4-DCAA	2	500	568	114		70 (10)	130 (141)
PB164641BS	PB164641BS	2,4-DCAA	1	500	573	115		70 (10)	130 (141)
		2,4-DCAA	2	500	572	114		70 (10)	130 (141)
I.BLK-PS028236.D	PIBLK-PS028236.D	2,4-DCAA	1	500	573	115		70 (39)	130 (175)
		2,4-DCAA	2	500	538	108		70 (39)	130 (175)
I.BLK-PS028355.D	PIBLK-PS028355.D	2,4-DCAA	1	500	501	100		70 (39)	130 (175)
		2,4-DCAA	2	500	503	101		70 (39)	130 (175)
I.BLK-PS028405.D	PIBLK-PS028405.D	2,4-DCAA	1	500	511	102		70 (39)	130 (175)
		2,4-DCAA	2	500	472	94		70 (39)	130 (175)
P4602-44MS	CC0R8MS	2,4-DCAA	1	500	375	75		70 (10)	130 (141)
		2,4-DCAA	2	500	253	51	*	70 (10)	130 (141)
P4602-45MSD	CC0R8MSD	2,4-DCAA	1	500	379	76		70 (10)	130 (141)
		2,4-DCAA	2	500	254	51	*	70 (10)	130 (141)
I.BLK-PS028417.D	PIBLK-PS028417.D	2,4-DCAA	1	500	513	103		70 (39)	130 (175)
		2,4-DCAA	2	500	468	94		70 (39)	130 (175)

( ) = LABORATORY INHOUSE LIMIT

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: P4663

Client: Union Paving & Construction Company

Analytical Method: 8151A **DataFile :** PS028408.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:	**CC0R8MS**											
P4602-44MS	DICAMBA	181.8	0	78.0	ug/Kg	43	*			70 (10)	130 (112)	
	DICHLORPROP	181.8	0	47.0	ug/Kg	26	*			70 (10)	130 (113)	
	2,4-D	181.8	0	90.4	ug/Kg	50	*			70 (10)	130 (144)	
	2,4,5-TP(Silvex)	181.8	0	29.7	ug/Kg	16	*			70 (10)	130 (114)	
	2,4,5-T	181.8	0	49.4	ug/Kg	27	*			70 (10)	130 (115)	
	2,4-DB	181.8	0	52.5	ug/Kg	29	*			70 (10)	130 (140)	
	Dinoseb	181.8	0	0	ug/Kg	0	*			70 (10)	130 (118)	

( ) = LABORATORY INHOUSE LIMIT

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: P4663

Client: Union Paving & Construction Company

Analytical Method: 8151A **DataFile :** PS028409.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:	**CC0R8MSD**											
P4602-45MSD	DICAMBA	181.7	0	78.6	ug/Kg	43	*	0		70 (10)	130 (112)	30 (20)
	DICHLORPROP	181.7	0	47.4	ug/Kg	26	*	0		70 (10)	130 (113)	30 (20)
	2,4-D	181.7	0	91.1	ug/Kg	50	*	0		70 (10)	130 (144)	30 (20)
	2,4,5-TP(Silvex)	181.7	0	29.9	ug/Kg	16	*	0		70 (10)	130 (114)	30 (20)
	2,4,5-T	181.7	0	50.0	ug/Kg	28	*	4		70 (10)	130 (115)	30 (20)
	2,4-DB	181.7	0	52.5	ug/Kg	29	*	0		70 (10)	130 (140)	30 (20)
	Dinoseb	181.7	0	0	ug/Kg	0	*	0		70 (10)	130 (118)	30 (20)

( ) = LABORATORY INHOUSE LIMIT

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

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4663

Client: Union Paving & Construction Company

Analytical Method: 8151A **Datafile :** PS028231.D

Lab Sample ID	Parameter	Spike	Result	Units	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	Limits RPD
PB164641BS	DICAMBA	166.5	181	ug/Kg	109				70 (72)	130 (129)	
	DICHLORPROP	166.5	185	ug/Kg	111				70 (77)	130 (135)	
	2,4-D	166.5	186	ug/Kg	112				70 (65)	130 (144)	
	2,4,5-TP(Silvex)	166.5	194	ug/Kg	117				70 (74)	130 (146)	
	2,4,5-T	166.5	193	ug/Kg	116				70 (77)	130 (134)	
	2,4-DB	166.5	188	ug/Kg	113				70 (72)	130 (122)	
	Dinoseb	166.5	197	ug/Kg	118				70 (74)	130 (132)	

( ) = LABORATORY INHOUSE LIMIT

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

4C

PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB164641BL

Lab Name: CHEMTECH Contract: UNIO02

Lab Code: CHEM Case No.: P4663 SAS No.: P4663 SDG NO.: P4663

Lab Sample ID: PB164641BL Lab File ID: PS028230.D

Matrix: (soil/water) Solid Extraction: (Type)

Sulfur Cleanup: (Y/N) N Date Extracted: 11/04/2024

Date Analyzed (1): 11/05/2024 Date Analyzed (2): 11/05/2024

Time Analyzed (1): 22:36 Time Analyzed (2): 22:36

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
TENNANT-PAD-2-3-STOCKPILE	P4663-02	PS028226.D	11/05/2024	11/05/2024
RES-BUILDING-PAD-NO-11	P4663-04	PS028227.D	11/05/2024	11/05/2024
RES-BUILDING-PAD-NO-3	P4663-06	PS028228.D	11/05/2024	11/05/2024
RES-BUILDING-PAD-NO-2	P4663-08	PS028229.D	11/05/2024	11/05/2024
PB164641BS	PB164641BS	PS028231.D	11/05/2024	11/05/2024
CC0R8MS	P4602-44MS	PS028408.D	11/11/2024	11/11/2024
CC0R8MSD	P4602-45MSD	PS028409.D	11/11/2024	11/11/2024

COMMENTS:

QC SAMPLE DATA

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

Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	
Project:	Rt. 10 Whippany	Date Received:	
Client Sample ID:	PB164641BL	SDG No.:	P4663
Lab Sample ID:	PB164641BL	Matrix:	SOIL
Analytical Method:	SW8151A	% 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
PS028230.D	1	11/04/24 09:51	11/05/24 22:36	PB164641

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
1918-00-9	DICAMBA	8.70	U	8.70	67.0	ug/Kg
120-36-5	DICHLORPROP	9.50	U	9.50	67.0	ug/Kg
94-75-7	2,4-D	12.1	U	12.1	67.0	ug/Kg
93-72-1	2,4,5-TP (Silvex)	9.40	U	9.40	67.0	ug/Kg
93-76-5	2,4,5-T	10.1	U	10.1	67.0	ug/Kg
94-82-6	2,4-DB	18.3	U	18.3	67.0	ug/Kg
88-85-7	DINOSEB	12.4	U	12.4	67.0	ug/Kg
SURROGATES						
19719-28-9	2,4-DCAA	572		70 (10) - 130 (141)	114%	SPK: 500

Comments:

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

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

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

Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	11/05/24
Project:	Rt. 10 Whippany	Date Received:	11/05/24
Client Sample ID:	PIBLK-PS028217.D	SDG No.:	P4663
Lab Sample ID:	I.BLK-PS028217.D	Matrix:	WATER
Analytical Method:	SW8151A	% 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
PS028217.D	1		11/05/24	PS110524

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
1918-00-9	DICAMBA	0.42	U	0.42	2.00	ug/L
120-36-5	DICHLORPROP	0.43	U	0.43	2.00	ug/L
94-75-7	2,4-D	0.49	U	0.49	2.00	ug/L
93-72-1	2,4,5-TP (Silvex)	0.45	U	0.45	2.00	ug/L
93-76-5	2,4,5-T	0.50	U	0.50	2.00	ug/L
94-82-6	2,4-DB	0.57	U	0.57	2.00	ug/L
88-85-7	DINOSEB	0.55	U	0.55	2.00	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	506		70 (39) - 130 (175)	101%	SPK: 500

Comments:

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

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

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

Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	11/05/24
Project:	Rt. 10 Whippany	Date Received:	11/05/24
Client Sample ID:	PIBLK-PS028224.D	SDG No.:	P4663
Lab Sample ID:	I.BLK-PS028224.D	Matrix:	WATER
Analytical Method:	SW8151A	% 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
PS028224.D	1		11/05/24	PS110524

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
1918-00-9	DICAMBA	0.42	U	0.42	2.00	ug/L
120-36-5	DICHLORPROP	0.43	U	0.43	2.00	ug/L
94-75-7	2,4-D	0.49	U	0.49	2.00	ug/L
93-72-1	2,4,5-TP (Silvex)	0.45	U	0.45	2.00	ug/L
93-76-5	2,4,5-T	0.50	U	0.50	2.00	ug/L
94-82-6	2,4-DB	0.57	U	0.57	2.00	ug/L
88-85-7	DINOSEB	0.55	U	0.55	2.00	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	559		70 (39) - 130 (175)	112%	SPK: 500

Comments:

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

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

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

Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	11/06/24
Project:	Rt. 10 Whippany	Date Received:	11/06/24
Client Sample ID:	PIBLK-PS028236.D	SDG No.:	P4663
Lab Sample ID:	I.BLK-PS028236.D	Matrix:	WATER
Analytical Method:	SW8151A	% 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
PS028236.D	1		11/06/24	PS110524

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
1918-00-9	DICAMBA	0.42	U	0.42	2.00	ug/L
120-36-5	DICHLORPROP	0.43	U	0.43	2.00	ug/L
94-75-7	2,4-D	0.49	U	0.49	2.00	ug/L
93-72-1	2,4,5-TP (Silvex)	0.45	U	0.45	2.00	ug/L
93-76-5	2,4,5-T	0.50	U	0.50	2.00	ug/L
94-82-6	2,4-DB	0.57	U	0.57	2.00	ug/L
88-85-7	DINOSEB	0.55	U	0.55	2.00	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	573		70 (39) - 130 (175)	115%	SPK: 500

Comments:

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

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

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

Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	11/08/24
Project:	Rt. 10 Whippany	Date Received:	11/08/24
Client Sample ID:	PIBLK-PS028355.D	SDG No.:	P4663
Lab Sample ID:	I.BLK-PS028355.D	Matrix:	WATER
Analytical Method:	SW8151A	% 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
PS028355.D	1		11/08/24	PS110924

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
1918-00-9	DICAMBA	0.42	U	0.42	2.00	ug/L
120-36-5	DICHLORPROP	0.43	U	0.43	2.00	ug/L
94-75-7	2,4-D	0.49	U	0.49	2.00	ug/L
93-72-1	2,4,5-TP (Silvex)	0.45	U	0.45	2.00	ug/L
93-76-5	2,4,5-T	0.50	U	0.50	2.00	ug/L
94-82-6	2,4-DB	0.57	U	0.57	2.00	ug/L
88-85-7	DINOSEB	0.55	U	0.55	2.00	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	503		70 (39) - 130 (175)	101%	SPK: 500

Comments:

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

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

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

Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	11/11/24
Project:	Rt. 10 Whippany	Date Received:	11/11/24
Client Sample ID:	PIBLK-PS028405.D	SDG No.:	P4663
Lab Sample ID:	I.BLK-PS028405.D	Matrix:	WATER
Analytical Method:	SW8151A	% 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
PS028405.D	1		11/11/24	ps111124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
1918-00-9	DICAMBA	0.42	U	0.42	2.00	ug/L
120-36-5	DICHLORPROP	0.43	U	0.43	2.00	ug/L
94-75-7	2,4-D	0.49	U	0.49	2.00	ug/L
93-72-1	2,4,5-TP (Silvex)	0.45	U	0.45	2.00	ug/L
93-76-5	2,4,5-T	0.50	U	0.50	2.00	ug/L
94-82-6	2,4-DB	0.57	U	0.57	2.00	ug/L
88-85-7	DINOSEB	0.55	U	0.55	2.00	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	511		70 (39) - 130 (175)	102%	SPK: 500

Comments:

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

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

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

Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	11/11/24
Project:	Rt. 10 Whippany	Date Received:	11/11/24
Client Sample ID:	PIBLK-PS028417.D	SDG No.:	P4663
Lab Sample ID:	I.BLK-PS028417.D	Matrix:	WATER
Analytical Method:	SW8151A	% 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
PS028417.D	1		11/11/24	ps111124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
1918-00-9	DICAMBA	0.42	U	0.42	2.00	ug/L
120-36-5	DICHLORPROP	0.43	U	0.43	2.00	ug/L
94-75-7	2,4-D	0.49	U	0.49	2.00	ug/L
93-72-1	2,4,5-TP (Silvex)	0.45	U	0.45	2.00	ug/L
93-76-5	2,4,5-T	0.50	U	0.50	2.00	ug/L
94-82-6	2,4-DB	0.57	U	0.57	2.00	ug/L
88-85-7	DINOSEB	0.55	U	0.55	2.00	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	513		70 (39) - 130 (175)	103%	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:	Union Paving & Construction Company	Date Collected:	
Project:	Rt. 10 Whippany	Date Received:	
Client Sample ID:	PB164641BS	SDG No.:	P4663
Lab Sample ID:	PB164641BS	Matrix:	SOIL
Analytical Method:	SW8151A	% Solid:	100 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
PS028231.D	1	11/04/24 09:51	11/05/24 23:00	PB164641

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
1918-00-9	DICAMBA	181		8.70	66.9	ug/Kg
120-36-5	DICHLORPROP	185		9.50	66.9	ug/Kg
94-75-7	2,4-D	186		12.1	66.9	ug/Kg
93-72-1	2,4,5-TP (Silvex)	194		9.40	66.9	ug/Kg
93-76-5	2,4,5-T	193		10.1	66.9	ug/Kg
94-82-6	2,4-DB	188		18.3	66.9	ug/Kg
88-85-7	DINOSEB	197		12.4	66.9	ug/Kg
SURROGATES						
19719-28-9	2,4-DCAA	573		70 (10) - 130 (141)	115%	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:	Union Paving & Construction Company	Date Collected:	10/23/24
Project:	Rt. 10 Whippany	Date Received:	10/29/24
Client Sample ID:	CC0R8MS	SDG No.:	P4663
Lab Sample ID:	P4602-44MS	Matrix:	SOIL
Analytical Method:	SW8151A	% Solid:	91.6 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
PS028408.D	1	11/04/24 09:51	11/11/24 17:21	PB164641

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
1918-00-9	DICAMBA	78.0		9.50	73.1	ug/Kg
120-36-5	DICHLORPROP	47.0	J	10.4	73.1	ug/Kg
94-75-7	2,4-D	90.4		13.2	73.1	ug/Kg
93-72-1	2,4,5-TP (Silvex)	29.7	J	10.2	73.1	ug/Kg
93-76-5	2,4,5-T	49.4	J	11.0	73.1	ug/Kg
94-82-6	2,4-DB	52.5	JP	20.0	73.1	ug/Kg
88-85-7	DINOSEB	13.5	U	13.5	73.1	ug/Kg
SURROGATES						
19719-28-9	2,4-DCAA	375		70 (10) - 130 (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:	Union Paving & Construction Company	Date Collected:	10/23/24
Project:	Rt. 10 Whippany	Date Received:	10/29/24
Client Sample ID:	CC0R8MSD	SDG No.:	P4663
Lab Sample ID:	P4602-45MSD	Matrix:	SOIL
Analytical Method:	SW8151A	% Solid:	91.6 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
PS028409.D	1	11/04/24 09:51	11/11/24 17:45	PB164641

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
1918-00-9	DICAMBA	78.6		9.50	73.0	ug/Kg
120-36-5	DICHLORPROP	47.4	J	10.4	73.0	ug/Kg
94-75-7	2,4-D	91.1		13.2	73.0	ug/Kg
93-72-1	2,4,5-TP (Silvex)	29.9	J	10.2	73.0	ug/Kg
93-76-5	2,4,5-T	50.0	J	11.0	73.0	ug/Kg
94-82-6	2,4-DB	52.5	JP	20.0	73.0	ug/Kg
88-85-7	DINOSEB	13.5	U	13.5	73.0	ug/Kg
SURROGATES						
19719-28-9	2,4-DCAA	379		70 (10) - 130 (141)	76%	SPK: 500

Comments:

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

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

CALIBRATION SUMMARY

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RETENTION TIMES OF INITIAL CALIBRATION

Contract: UNIO02

Lab Code: CHEM **Case No.:** P4663 **SAS No.:** P4663 **SDG NO.:** P4663

Instrument ID: ECD_S **Calibration Date(s):** 11/05/2024 11/05/2024

Calibration Times: 17:47 19:23

GC Column: RTX-CLP ID: 0.32 (mm)

LAB FILE ID: RT 200 = PS028218.D RT 500 = PS028219.D

RT 750 = PS028220.D RT 1000 = PS028221.D RT 1500 = PS028222.D

COMPOUND	RT 200	RT 500	RT 750	RT 1000	RT 1500	MEAN RT	RT WINDOW FROM	RT WINDOW TO
2,4,5-T	9.57	9.57	9.57	9.57	9.57	9.57	9.47	9.67
2,4,5-TP(Silvex)	9.28	9.28	9.28	9.28	9.28	9.28	9.18	9.38
2,4-D	8.40	8.40	8.40	8.40	8.40	8.40	8.30	8.50
2,4-DB	10.15	10.15	10.15	10.15	10.15	10.15	10.05	10.25
2,4-DCAA	7.27	7.27	7.27	7.27	7.27	7.27	7.17	7.37
DICAMBA	7.46	7.46	7.46	7.46	7.46	7.46	7.36	7.56
DICHLORPROP	8.17	8.17	8.17	8.17	8.17	8.17	8.07	8.27
Dinoseb	11.37	11.37	11.37	11.37	11.37	11.37	11.27	11.47

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RETENTION TIMES OF INITIAL CALIBRATION

Contract: UNIO02

Lab Code: CHEM **Case No.:** P4663 **SAS No.:** P4663 **SDG NO.:** P4663

Instrument ID: ECD_S **Calibration Date(s):** 11/05/2024 11/05/2024

Calibration Times: 17:47 19:23

GC Column: RTX-CLP2 ID: 0.32 (mm)

LAB FILE ID: RT 200 = PS028218.D RT 500 = PS028219.D

RT 750 = PS028220.D RT 1000 = PS028221.D RT 1500 = PS028222.D

COMPOUND	RT 200	RT 500	RT 750	RT 1000	RT 1500	MEAN RT	RT WINDOW FROM	RT WINDOW TO
2,4,5-T	10.35	10.35	10.35	10.35	10.35	10.35	10.25	10.45
2,4,5-TP(Silvex)	9.93	9.93	9.93	9.93	9.93	9.93	9.83	10.03
2,4-D	9.02	9.02	9.02	9.02	9.02	9.02	8.92	9.12
2,4-DB	10.92	10.92	10.92	10.92	10.92	10.92	10.82	11.02
2,4-DCAA	7.77	7.77	7.77	7.77	7.77	7.77	7.67	7.87
DICAMBA	7.97	7.97	7.97	7.97	7.97	7.97	7.87	8.07
DICHLORPROP	8.69	8.69	8.69	8.69	8.69	8.69	8.59	8.79
Dinoseb	11.30	11.30	11.30	11.30	11.30	11.30	11.20	11.40

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CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: UNIO02

Lab Code: CHEM **Case No.:** P4663 **SAS No.:** P4663 **SDG NO.:** P4663

Instrument ID: ECD_S **Calibration Date(s):** 11/05/2024 11/05/2024

Calibration Times: 17:47 19:23

GC Column: RTX-CLP **ID:** 0.32 **(mm)**

LAB FILE ID: **CF 200 =** PS028218.D **CF 500 =** PS028219.D

CF 750 = PS028220.D **CF 1000 =** PS028221.D **CF 1500 =** PS028222.D

COMPOUND	CF 200	CF 500	CF 750	CF 1000	CF 1500	CF	% RSD
2,4,5-T	10864300000	10379000000	10114700000	10018900000	9708090000	10217000000	4
2,4,5-TP(Silvex)	10665800000	10190300000	9917240000	9798710000	9474280000	10009300000	4
2,4-D	2252390000	2057520000	1979330000	1949790000	1898080000	2027420000	7
2,4-DB	1697290000	1642320000	1626160000	1642090000	1637530000	1649080000	2
2,4-DCAA	2041360000	1838240000	1754050000	1717240000	1664280000	1803030000	8
DICAMBA	8121700000	7919480000	7837710000	7867670000	7746320000	7898580000	2
DICHLORPROP	2027990000	1836850000	1760070000	1730110000	1677860000	1806570000	8
Dinoseb	8016870000	7537200000	7345150000	7403920000	7264640000	7513560000	4

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CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: UNIO02

Lab Code: CHEM **Case No.:** P4663 **SAS No.:** P4663 **SDG NO.:** P4663

Instrument ID: ECD_S **Calibration Date(s):** 11/05/2024 11/05/2024

Calibration Times: 17:47 19:23

GC Column: RTX-CLP2 **ID:** 0.32 **(mm)**

LAB FILE ID: **CF 200 =** PS028218.D **CF 500 =** PS028219.D

CF 750 = PS028220.D **CF 1000 =** PS028221.D **CF 1500 =** PS028222.D

COMPOUND	CF 200	CF 500	CF 750	CF 1000	CF 1500	CF	% RSD
2,4,5-T	10795200000	9660240000	9538750000	12245500000	11250900000	10698100000	11
2,4,5-TP(Silvex)	10593300000	9695370000	9709370000	12412100000	11351400000	10752300000	11
2,4-D	1854130000	1747820000	1770940000	2264400000	2112450000	1949950000	12
2,4-DB	1468550000	1179450000	1183330000	1592700000	1506420000	1386090000	14
2,4-DCAA	1511030000	1402620000	1427160000	1797120000	1681510000	1563890000	11
DICAMBA	6474960000	6442200000	6713350000	8487490000	7946070000	7212810000	13
DICHLORPROP	1639070000	1545370000	1572970000	2041660000	1904200000	1740650000	13
Dinoseb	7892400000	6483700000	6408880000	8632200000	8089240000	7501280000	13

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RETENTION TIMES OF INITIAL CALIBRATION

Contract: UNIO02

Lab Code: CHEM **Case No.:** P4663 **SAS No.:** P4663 **SDG NO.:** P4663

Instrument ID: ECD_S **Calibration Date(s):** 11/08/2024 11/08/2024

Calibration Times: 15:13 16:58

GC Column: RTX-CLP ID: 0.32 (mm)

LAB FILE ID: RT 200 = PS028356.D RT 500 = PS028357.D

RT 750 = PS028358.D RT 1000 = PS028359.D RT 1500 = PS028360.D

COMPOUND	RT 200	RT 500	RT 750	RT 1000	RT 1500	MEAN RT	RT WINDOW FROM	RT WINDOW TO
2,4,5-T	9.55	9.56	9.55	9.55	9.55	9.55	9.45	9.65
2,4,5-TP(Silvex)	9.26	9.26	9.26	9.26	9.26	9.26	9.16	9.36
2,4-D	8.38	8.38	8.38	8.38	8.38	8.38	8.28	8.48
2,4-DB	10.13	10.13	10.13	10.13	10.13	10.13	10.03	10.23
2,4-DCAA	7.25	7.25	7.25	7.25	7.25	7.25	7.15	7.35
DICAMBA	7.44	7.44	7.44	7.44	7.44	7.44	7.34	7.54
DICHLORPROP	8.15	8.15	8.15	8.15	8.15	8.15	8.05	8.25
Dinoseb	11.35	11.35	11.35	11.35	11.35	11.35	11.25	11.45

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RETENTION TIMES OF INITIAL CALIBRATION

Contract: UNIO02

Lab Code: CHEM **Case No.:** P4663 **SAS No.:** P4663 **SDG NO.:** P4663

Instrument ID: ECD_S **Calibration Date(s):** 11/08/2024 11/08/2024

Calibration Times: 15:13 16:58

GC Column: RTX-CLP2 ID: 0.32 (mm)

LAB FILE ID: RT 200 = PS028356.D RT 500 = PS028357.D

RT 750 = PS028358.D RT 1000 = PS028359.D RT 1500 = PS028360.D

COMPOUND	RT 200	RT 500	RT 750	RT 1000	RT 1500	MEAN RT	RT WINDOW FROM	RT WINDOW TO
2,4,5-T	10.33	10.33	10.33	10.33	10.33	10.33	10.23	10.43
2,4,5-TP(Silvex)	9.91	9.91	9.91	9.91	9.91	9.91	9.81	10.01
2,4-D	9.01	9.00	9.01	9.01	9.01	9.00	8.90	9.10
2,4-DB	10.90	10.90	10.90	10.90	10.90	10.90	10.80	11.00
2,4-DCAA	7.76	7.75	7.76	7.76	7.76	7.75	7.65	7.85
DICAMBA	7.96	7.96	7.96	7.96	7.96	7.96	7.86	8.06
DICHLORPROP	8.67	8.67	8.67	8.67	8.67	8.67	8.57	8.77
Dinoseb	11.28	11.28	11.28	11.28	11.28	11.28	11.18	11.38

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CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: UNIO02

Lab Code: CHEM **Case No.:** P4663 **SAS No.:** P4663 **SDG NO.:** P4663

Instrument ID: ECD_S **Calibration Date(s):** 11/08/2024 11/08/2024

Calibration Times: 15:13 16:58

GC Column: RTX-CLP **ID:** 0.32 **(mm)**

LAB FILE ID: **CF 200 =** PS028356.D **CF 500 =** PS028357.D

CF 750 = PS028358.D **CF 1000 =** PS028359.D **CF 1500 =** PS028360.D

COMPOUND	CF 200	CF 500	CF 750	CF 1000	CF 1500	CF	% RSD
2,4,5-T	21529100000	19437000000	19525400000	18705500000	17708000000	19381000000	7
2,4,5-TP(Silvex)	21008200000	18982300000	19068100000	18267500000	17318700000	18929000000	7
2,4-D	3997770000	3571450000	3468690000	3334460000	3198650000	3514210000	9
2,4-DB	3352010000	3027230000	3093110000	3022410000	2959650000	3090880000	5
2,4-DCAA	3196830000	2740430000	2735520000	2619650000	2511350000	2760750000	9
DICAMBA	12975400000	11905100000	12166500000	11780900000	11375900000	12040700000	5
DICHLORPROP	3557350000	3056940000	3079000000	2957460000	2847450000	3099640000	9
Dinoseb	17552800000	16349100000	16308600000	15784700000	15071600000	16213400000	6

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CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: UNIO02

Lab Code: CHEM **Case No.:** P4663 **SAS No.:** P4663 **SDG NO.:** P4663

Instrument ID: ECD_S **Calibration Date(s):** 11/08/2024 11/08/2024

Calibration Times: 15:13 16:58

GC Column: RTX-CLP2 **ID:** 0.32 **(mm)**

LAB FILE ID: **CF 200 =** PS028356.D **CF 500 =** PS028357.D

CF 750 = PS028358.D **CF 1000 =** PS028359.D **CF 1500 =** PS028360.D

COMPOUND	CF 200	CF 500	CF 750	CF 1000	CF 1500	CF	% RSD
2,4,5-T	10782600000	10407300000	10530200000	10245600000	9914510000	10376000000	3
2,4,5-TP(Silvex)	10970300000	10612300000	10768700000	10478800000	10130800000	10592200000	3
2,4-D	2051780000	1901200000	1935300000	1900220000	1880580000	1933820000	4
2,4-DB	1351580000	1287180000	1335670000	1323760000	1328210000	1325280000	2
2,4-DCAA	1694540000	1575990000	1595150000	1561040000	1540400000	1593420000	4
DICAMBA	7032650000	7044480000	7350350000	7249840000	7170240000	7169510000	2
DICHLORPROP	1864120000	1759800000	1788540000	1754780000	1739090000	1781270000	3
Dinoseb	7376340000	7195700000	7257020000	7126590000	6931080000	7177340000	2

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CALIBRATION VERIFICATION SUMMARY

Contract: UNIO02

Lab Code: CHEM **Case No.:** P4663 **SAS No.:** P4663 **SDG NO.:** P4663

Continuing Calib Date: 11/05/2024 **Initial Calibration Date(s):** 11/05/2024 11/05/2024

Continuing Calib Time: 20:36 **Initial Calibration Time(s):** 17:47 19:23

GC Column: RTX-CLP **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
DICAMBA	7.46	7.46	7.36	7.56	0.01
2,4-DCAA	7.27	7.27	7.17	7.37	0.01
DICHLORPROP	8.17	8.17	8.07	8.27	0.00
2,4-D	8.40	8.40	8.30	8.50	0.00
2,4,5-TP(Silvex)	9.28	9.28	9.18	9.38	0.00
2,4,5-T	9.57	9.57	9.47	9.67	0.00
2,4-DB	10.15	10.15	10.05	10.25	0.00
Dinoseb	11.37	11.37	11.27	11.47	0.00

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CALIBRATION VERIFICATION SUMMARY

Contract: UNIO02

Lab Code: CHEM **Case No.:** P4663 **SAS No.:** P4663 **SDG NO.:** P4663

Continuing Calib Date: 11/05/2024 **Initial Calibration Date(s):** 11/05/2024 11/05/2024

Continuing Calib Time: 20:36 **Initial Calibration Time(s):** 17:47 19:23

GC Column: RTX-CLP2 **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
DICAMBA	7.97	7.97	7.87	8.07	0.00
2,4-DCAA	7.77	7.77	7.67	7.87	0.00
DICHLORPROP	8.69	8.69	8.59	8.79	0.00
2,4-D	9.02	9.02	8.92	9.12	0.00
2,4,5-TP(Silvex)	9.93	9.93	9.83	10.03	0.00
2,4,5-T	10.35	10.35	10.25	10.45	0.00
2,4-DB	10.92	10.92	10.82	11.02	0.00
Dinoseb	11.30	11.30	11.20	11.40	0.00

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CALIBRATION VERIFICATION SUMMARY

Contract: UNIO02

Lab Code: CHEM **Case No.:** P4663 **SAS No.:** P4663 **SDG NO.:** P4663

GC Column: RTX-CLP **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 11/05/2024 11/05/2024

Client Sample No.: CCAL01 **Date Analyzed:** 11/05/2024

Lab Sample No.: HSTDCCC750 **Data File :** PS028225.D **Time Analyzed:** 20:36

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-T	9.572	9.473	9.673	760.150	712.500	6.7
2,4,5-TP(Silvex)	9.280	9.181	9.381	761.980	712.500	6.9
2,4-D	8.397	8.298	8.498	729.750	705.000	3.5
2,4-DB	10.150	10.051	10.251	744.440	712.500	4.5
2,4-DCAA	7.265	7.166	7.366	757.410	750.000	1.0
DICAMBA	7.455	7.355	7.555	722.390	705.000	2.5
DICHLORPROP	8.166	8.066	8.266	724.670	705.000	2.8
Dinoseb	11.367	11.268	11.468	760.440	705.000	7.9

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CALIBRATION VERIFICATION SUMMARY

Contract: UNIO02

Lab Code: CHEM **Case No.:** P4663 **SAS No.:** P4663 **SDG NO.:** P4663

GC Column: RTX-CLP2 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 11/05/2024 11/05/2024

Client Sample No.: CCAL01 **Date Analyzed:** 11/05/2024

Lab Sample No.: HSTDCCC750 **Data File :** PS028225.D **Time Analyzed:** 20:36

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-T	10.348	10.248	10.448	781.700	712.500	9.7
2,4,5-TP(Silvex)	9.926	9.826	10.026	788.840	712.500	10.7
2,4-D	9.019	8.919	9.119	776.830	705.000	10.2
2,4-DB	10.916	10.815	11.015	759.470	712.500	6.6
2,4-DCAA	7.768	7.667	7.867	823.610	750.000	9.8
DICAMBA	7.970	7.869	8.069	792.350	705.000	12.4
DICHLORPROP	8.687	8.587	8.787	781.350	705.000	10.8
Dinoseb	11.296	11.196	11.396	772.370	705.000	9.6

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CALIBRATION VERIFICATION SUMMARY

Contract: UNIO02

Lab Code: CHEM **Case No.:** P4663 **SAS No.:** P4663 **SDG NO.:** P4663

Continuing Calib Date: 11/06/2024 **Initial Calibration Date(s):** 11/05/2024 11/05/2024

Continuing Calib Time: 01:24 **Initial Calibration Time(s):** 17:47 19:23

GC Column: RTX-CLP **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
DICAMBA	7.45	7.46	7.36	7.56	0.01
2,4-DCAA	7.27	7.27	7.17	7.37	0.01
DICHLORPROP	8.17	8.17	8.07	8.27	0.00
2,4-D	8.40	8.40	8.30	8.50	0.00
2,4,5-TP(Silvex)	9.28	9.28	9.18	9.38	0.00
2,4,5-T	9.57	9.57	9.47	9.67	0.00
2,4-DB	10.15	10.15	10.05	10.25	0.00
Dinoseb	11.37	11.37	11.27	11.47	0.00

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CALIBRATION VERIFICATION SUMMARY

Contract: UNIO02

Lab Code: CHEM **Case No.:** P4663 **SAS No.:** P4663 **SDG NO.:** P4663

Continuing Calib Date: 11/06/2024 **Initial Calibration Date(s):** 11/05/2024 11/05/2024

Continuing Calib Time: 01:24 **Initial Calibration Time(s):** 17:47 19:23

GC Column: RTX-CLP2 **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
DICAMBA	7.97	7.97	7.87	8.07	0.00
2,4-DCAA	7.77	7.77	7.67	7.87	0.00
DICHLORPROP	8.69	8.69	8.59	8.79	0.00
2,4-D	9.02	9.02	8.92	9.12	0.00
2,4,5-TP(Silvex)	9.93	9.93	9.83	10.03	0.00
2,4,5-T	10.35	10.35	10.25	10.45	0.00
2,4-DB	10.92	10.92	10.82	11.02	0.01
Dinoseb	11.30	11.30	11.20	11.40	0.00

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CALIBRATION VERIFICATION SUMMARY

Contract: UNIO02

Lab Code: CHEM **Case No.:** P4663 **SAS No.:** P4663 **SDG NO.:** P4663

GC Column: RTX-CLP **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 11/05/2024 11/05/2024

Client Sample No.: CCAL02 **Date Analyzed:** 11/06/2024

Lab Sample No.: HSTDCCC750 **Data File :** PS028237.D **Time Analyzed:** 01:24

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-T	9.572	9.473	9.673	925.990	712.500	30.0
2,4,5-TP(Silvex)	9.279	9.181	9.381	929.580	712.500	30.5
2,4-D	8.397	8.298	8.498	862.880	705.000	22.4
2,4-DB	10.150	10.051	10.251	933.840	712.500	31.1
2,4-DCAA	7.265	7.166	7.366	976.190	750.000	30.2
DICAMBA	7.454	7.355	7.555	836.620	705.000	18.7
DICHLORPROP	8.166	8.066	8.266	857.570	705.000	21.6
Dinoseb	11.367	11.268	11.468	1004.200	705.000	42.4

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CALIBRATION VERIFICATION SUMMARY

Contract: UNIO02

Lab Code: CHEM **Case No.:** P4663 **SAS No.:** P4663 **SDG NO.:** P4663

GC Column: RTX-CLP2 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 11/05/2024 11/05/2024

Client Sample No.: CCAL02 **Date Analyzed:** 11/06/2024

Lab Sample No.: HSTDCCC750 **Data File :** PS028237.D **Time Analyzed:** 01:24

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-T	10.347	10.248	10.448	710.290	712.500	-0.3
2,4,5-TP(Silvex)	9.925	9.826	10.026	718.680	712.500	0.9
2,4-D	9.018	8.919	9.119	726.720	705.000	3.1
2,4-DB	10.915	10.815	11.015	689.350	712.500	-3.2
2,4-DCAA	7.767	7.667	7.867	788.490	750.000	5.1
DICAMBA	7.969	7.869	8.069	753.030	705.000	6.8
DICHLORPROP	8.686	8.587	8.787	733.990	705.000	4.1
Dinoseb	11.295	11.196	11.396	701.600	705.000	-0.5

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CALIBRATION VERIFICATION SUMMARY

Contract: UNIO02

Lab Code: CHEM **Case No.:** P4663 **SAS No.:** P4663 **SDG NO.:** P4663

Continuing Calib Date: 11/11/2024 **Initial Calibration Date(s):** 11/08/2024 11/08/2024

Continuing Calib Time: 16:33 **Initial Calibration Time(s):** 15:13 16:58

GC Column: RTX-CLP **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
DICAMBA	7.43	7.44	7.34	7.54	0.01
2,4-DCAA	7.25	7.25	7.15	7.35	0.00
DICHLORPROP	8.14	8.15	8.05	8.25	0.01
2,4-D	8.38	8.38	8.28	8.48	0.00
2,4,5-TP(Silvex)	9.26	9.26	9.16	9.36	0.00
2,4,5-T	9.55	9.55	9.45	9.65	0.00
2,4-DB	10.12	10.13	10.03	10.23	0.01
Dinoseb	11.34	11.35	11.25	11.45	0.01

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CALIBRATION VERIFICATION SUMMARY

Contract: UNIO02

Lab Code: CHEM **Case No.:** P4663 **SAS No.:** P4663 **SDG NO.:** P4663

Continuing Calib Date: 11/11/2024 **Initial Calibration Date(s):** 11/08/2024 11/08/2024

Continuing Calib Time: 16:33 **Initial Calibration Time(s):** 15:13 16:58

GC Column: RTX-CLP2 **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
DICAMBA	7.95	7.96	7.86	8.06	0.01
2,4-DCAA	7.75	7.76	7.66	7.86	0.01
DICHLORPROP	8.67	8.67	8.57	8.77	0.00
2,4-D	9.00	9.01	8.91	9.11	0.01
2,4,5-TP(Silvex)	9.91	9.91	9.81	10.01	0.00
2,4,5-T	10.33	10.33	10.23	10.43	0.00
2,4-DB	10.90	10.90	10.80	11.00	0.00
Dinoseb	11.28	11.28	11.18	11.38	0.00

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CALIBRATION VERIFICATION SUMMARY

Contract: UNIO02

Lab Code: CHEM **Case No.:** P4663 **SAS No.:** P4663 **SDG NO.:** P4663

GC Column: RTX-CLP **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 11/08/2024 11/08/2024

Client Sample No.: CCAL03 **Date Analyzed:** 11/11/2024

Lab Sample No.: HSTDCCC750 **Data File :** PS028406.D **Time Analyzed:** 16:33

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-T	9.547	9.452	9.652	727.150	712.500	2.1
2,4,5-TP(Silvex)	9.255	9.160	9.360	727.880	712.500	2.2
2,4-D	8.375	8.279	8.479	706.140	705.000	0.2
2,4-DB	10.124	10.029	10.229	698.650	712.500	-1.9
2,4-DCAA	7.246	7.150	7.350	749.600	750.000	-0.1
DICAMBA	7.434	7.338	7.538	723.500	705.000	2.6
DICHLORPROP	8.144	8.048	8.248	710.450	705.000	0.8
Dinoseb	11.339	11.245	11.445	715.780	705.000	1.5

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CALIBRATION VERIFICATION SUMMARY

Contract: UNIO02

Lab Code: CHEM **Case No.:** P4663 **SAS No.:** P4663 **SDG NO.:** P4663

GC Column: RTX-CLP2 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 11/08/2024 11/08/2024

Client Sample No.: CCAL03 **Date Analyzed:** 11/11/2024

Lab Sample No.: HSTDCCC750 **Data File :** PS028406.D **Time Analyzed:** 16:33

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-T	10.328	10.233	10.433	676.610	712.500	-5.0
2,4,5-TP(Silvex)	9.908	9.811	10.011	676.600	712.500	-5.0
2,4-D	9.000	8.905	9.105	665.620	705.000	-5.6
2,4-DB	10.895	10.800	11.000	657.840	712.500	-7.7
2,4-DCAA	7.752	7.655	7.855	697.880	750.000	-6.9
DICAMBA	7.953	7.856	8.056	674.960	705.000	-4.3
DICHLORPROP	8.669	8.573	8.773	656.080	705.000	-6.9
Dinoseb	11.276	11.180	11.380	665.940	705.000	-5.5

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CALIBRATION VERIFICATION SUMMARY

Contract: UNIO02

Lab Code: CHEM **Case No.:** P4663 **SAS No.:** P4663 **SDG NO.:** P4663

Continuing Calib Date: 11/11/2024 **Initial Calibration Date(s):** 11/08/2024 11/08/2024

Continuing Calib Time: 21:22 **Initial Calibration Time(s):** 15:13 16:58

GC Column: RTX-CLP **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
DICAMBA	7.43	7.44	7.34	7.54	0.01
2,4-DCAA	7.25	7.25	7.15	7.35	0.01
DICHLORPROP	8.14	8.15	8.05	8.25	0.01
2,4-D	8.37	8.38	8.28	8.48	0.01
2,4,5-TP(Silvex)	9.25	9.26	9.16	9.36	0.01
2,4,5-T	9.55	9.55	9.45	9.65	0.00
2,4-DB	10.12	10.13	10.03	10.23	0.01
Dinoseb	11.34	11.35	11.25	11.45	0.01

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CALIBRATION VERIFICATION SUMMARY

Contract: UNIO02

Lab Code: CHEM **Case No.:** P4663 **SAS No.:** P4663 **SDG NO.:** P4663

Continuing Calib Date: 11/11/2024 **Initial Calibration Date(s):** 11/08/2024 11/08/2024

Continuing Calib Time: 21:22 **Initial Calibration Time(s):** 15:13 16:58

GC Column: RTX-CLP2 **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
DICAMBA	7.95	7.96	7.86	8.06	0.01
2,4-DCAA	7.75	7.76	7.66	7.86	0.01
DICHLORPROP	8.67	8.67	8.57	8.77	0.00
2,4-D	9.00	9.01	8.91	9.11	0.01
2,4,5-TP(Silvex)	9.91	9.91	9.81	10.01	0.00
2,4,5-T	10.33	10.33	10.23	10.43	0.00
2,4-DB	10.89	10.90	10.80	11.00	0.01
Dinoseb	11.27	11.28	11.18	11.38	0.01

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CALIBRATION VERIFICATION SUMMARY

Contract: UNIO02

Lab Code: CHEM **Case No.:** P4663 **SAS No.:** P4663 **SDG NO.:** P4663

GC Column: RTX-CLP **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 11/08/2024 11/08/2024

Client Sample No.: CCAL04 **Date Analyzed:** 11/11/2024

Lab Sample No.: HSTDCCC750 **Data File :** PS028418.D **Time Analyzed:** 21:22

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-T	9.547	9.452	9.652	736.420	712.500	3.4
2,4,5-TP(Silvex)	9.254	9.160	9.360	736.480	712.500	3.4
2,4-D	8.374	8.279	8.479	714.440	705.000	1.3
2,4-DB	10.123	10.029	10.229	702.180	712.500	-1.4
2,4-DCAA	7.245	7.150	7.350	742.700	750.000	-1.0
DICAMBA	7.434	7.338	7.538	731.350	705.000	3.7
DICHLORPROP	8.143	8.048	8.248	717.160	705.000	1.7
Dinoseb	11.337	11.245	11.445	726.290	705.000	3.0

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CALIBRATION VERIFICATION SUMMARY

Contract: UNIO02

Lab Code: CHEM **Case No.:** P4663 **SAS No.:** P4663 **SDG NO.:** P4663

GC Column: RTX-CLP2 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 11/08/2024 11/08/2024

Client Sample No.: CCAL04 **Date Analyzed:** 11/11/2024

Lab Sample No.: HSTDCCC750 **Data File :** PS028418.D **Time Analyzed:** 21:22

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-T	10.327	10.233	10.433	678.220	712.500	-4.8
2,4,5-TP(Silvex)	9.906	9.811	10.011	677.390	712.500	-4.9
2,4-D	9.000	8.905	9.105	636.580	705.000	-9.7
2,4-DB	10.894	10.800	11.000	666.670	712.500	-6.4
2,4-DCAA	7.751	7.655	7.855	698.440	750.000	-6.9
DICAMBA	7.952	7.856	8.056	673.550	705.000	-4.5
DICHLORPROP	8.669	8.573	8.773	656.760	705.000	-6.8
Dinoseb	11.274	11.180	11.380	666.370	705.000	-5.5

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Fax : 908 789 8922

Analytical Sequence

Client: Union Paving & Construction Company **SDG No.:** P4663

Project: Rt. 10 Whippany **Instrument ID:** ECD_S

GC Column: RTX-CLP **ID:** 0.32 (mm) **Inst. Calib. Date(s):** 11/05/2024 11/05/2024

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	11/05/2024	17:23	PS028217.D	7.27	0.00
HSTDICC200	HSTDICC200	11/05/2024	17:47	PS028218.D	7.27	0.00
HSTDICC500	HSTDICC500	11/05/2024	18:11	PS028219.D	7.27	0.00
HSTDICC750	HSTDICC750	11/05/2024	18:36	PS028220.D	7.27	0.00
HSTDICC1000	HSTDICC1000	11/05/2024	18:59	PS028221.D	7.27	0.00
HSTDICC1500	HSTDICC1500	11/05/2024	19:23	PS028222.D	7.27	0.00
I.BLK	I.BLK	11/05/2024	20:12	PS028224.D	7.27	0.00
HSTDCCC750	HSTDCCC750	11/05/2024	20:36	PS028225.D	7.27	0.00
TENNANT-PAD-2-3-STOCKPILE	P4663-02	11/05/2024	21:00	PS028226.D	7.27	0.00
RES-BUILDING-PAD-NO-11	P4663-04	11/05/2024	21:24	PS028227.D	7.27	0.00
RES-BUILDING-PAD-NO-3	P4663-06	11/05/2024	21:48	PS028228.D	7.27	0.00
RES-BUILDING-PAD-NO-2	P4663-08	11/05/2024	22:12	PS028229.D	7.27	0.00
PB164641BL	PB164641BL	11/05/2024	22:36	PS028230.D	7.26	0.00
PB164641BS	PB164641BS	11/05/2024	23:00	PS028231.D	7.27	0.00
I.BLK	I.BLK	11/06/2024	01:00	PS028236.D	7.26	0.00
HSTDCCC750	HSTDCCC750	11/06/2024	01:24	PS028237.D	7.27	0.00
I.BLK	I.BLK	11/08/2024	14:25	PS028355.D	7.25	0.00
HSTDICC200	HSTDICC200	11/08/2024	15:13	PS028356.D	7.25	0.00
HSTDICC500	HSTDICC500	11/08/2024	15:46	PS028357.D	7.25	0.00
HSTDICC750	HSTDICC750	11/08/2024	16:10	PS028358.D	7.25	0.00
HSTDICC1000	HSTDICC1000	11/08/2024	16:34	PS028359.D	7.25	0.00
HSTDICC1500	HSTDICC1500	11/08/2024	16:58	PS028360.D	7.25	0.00
I.BLK	I.BLK	11/11/2024	16:09	PS028405.D	7.25	0.00
HSTDCCC750	HSTDCCC750	11/11/2024	16:33	PS028406.D	7.25	0.00
CC0R8MS	P4602-44MS	11/11/2024	17:21	PS028408.D	7.25	0.00
CC0R8MSD	P4602-45MSD	11/11/2024	17:45	PS028409.D	7.24	0.00
I.BLK	I.BLK	11/11/2024	20:58	PS028417.D	7.25	0.00
HSTDCCC750	HSTDCCC750	11/11/2024	21:22	PS028418.D	7.25	0.00

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Analytical Sequence

Client: Union Paving & Construction Company **SDG No.:** P4663

Project: Rt. 10 Whippany **Instrument ID:** ECD_S

GC Column: RTX-CLP2 **ID:** 0.32 (mm) **Inst. Calib. Date(s):** 11/05/2024 11/05/2024

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	11/05/2024	17:23	PS028217.D	7.77	0.00
HSTDICC200	HSTDICC200	11/05/2024	17:47	PS028218.D	7.77	0.00
HSTDICC500	HSTDICC500	11/05/2024	18:11	PS028219.D	7.77	0.00
HSTDICC750	HSTDICC750	11/05/2024	18:36	PS028220.D	7.77	0.00
HSTDICC1000	HSTDICC1000	11/05/2024	18:59	PS028221.D	7.77	0.00
HSTDICC1500	HSTDICC1500	11/05/2024	19:23	PS028222.D	7.77	0.00
I.BLK	I.BLK	11/05/2024	20:12	PS028224.D	7.77	0.00
HSTDCCC750	HSTDCCC750	11/05/2024	20:36	PS028225.D	7.77	0.00
TENNANT-PAD-2-3-STOCKPILE	P4663-02	11/05/2024	21:00	PS028226.D	7.77	0.00
RES-BUILDING-PAD-NO-11	P4663-04	11/05/2024	21:24	PS028227.D	7.77	0.00
RES-BUILDING-PAD-NO-3	P4663-06	11/05/2024	21:48	PS028228.D	7.77	0.00
RES-BUILDING-PAD-NO-2	P4663-08	11/05/2024	22:12	PS028229.D	7.77	0.00
PB164641BL	PB164641BL	11/05/2024	22:36	PS028230.D	7.77	0.00
PB164641BS	PB164641BS	11/05/2024	23:00	PS028231.D	7.77	0.00
I.BLK	I.BLK	11/06/2024	01:00	PS028236.D	7.77	0.00
HSTDCCC750	HSTDCCC750	11/06/2024	01:24	PS028237.D	7.77	0.00
I.BLK	I.BLK	11/08/2024	14:25	PS028355.D	7.76	0.00
HSTDICC200	HSTDICC200	11/08/2024	15:13	PS028356.D	7.76	0.00
HSTDICC500	HSTDICC500	11/08/2024	15:46	PS028357.D	7.75	0.00
HSTDICC750	HSTDICC750	11/08/2024	16:10	PS028358.D	7.76	0.00
HSTDICC1000	HSTDICC1000	11/08/2024	16:34	PS028359.D	7.76	0.00
HSTDICC1500	HSTDICC1500	11/08/2024	16:58	PS028360.D	7.76	0.00
I.BLK	I.BLK	11/11/2024	16:09	PS028405.D	7.75	0.00
HSTDCCC750	HSTDCCC750	11/11/2024	16:33	PS028406.D	7.75	0.00
CC0R8MS	P4602-44MS	11/11/2024	17:21	PS028408.D	7.75	0.00
CC0R8MSD	P4602-45MSD	11/11/2024	17:45	PS028409.D	7.75	0.00
I.BLK	I.BLK	11/11/2024	20:58	PS028417.D	7.75	0.00
HSTDCCC750	HSTDCCC750	11/11/2024	21:22	PS028418.D	7.75	0.00

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

COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.
CC0R8MS

Contract: UNIO02

Lab Code: CHEM **Case No.:** P4663 **SAS No.:** P4663 **SDG NO.:** P4663

Lab Sample ID: P4602-44MS **Date(s) Analyzed:** 11/11/2024 11/11/2024

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	8.14	8.09	8.19	47.0	7.5
	2	8.67	8.62	8.72	43.6	
2,4-D	1	8.38	8.33	8.43	90.4	18.8
	2	9.00	8.95	9.05	74.9	
2,4,5-TP(Silvex)	1	9.26	9.21	9.31	28.0	5.9
	2	9.91	9.86	9.96	29.7	
2,4,5-T	1	9.55	9.50	9.60	47.0	5
	2	10.33	10.28	10.38	49.4	
2,4-DB	1	10.12	10.07	10.17	35.5	38.6
	2	10.89	10.84	10.94	52.5	
DICAMBA	1	7.43	7.38	7.48	78.0	8.1
	2	7.95	7.90	8.00	71.9	

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

COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.
CC0R8MSD

Contract: UNIO02

Lab Code: CHEM **Case No.:** P4663 **SAS No.:** P4663 **SDG NO.:** P4663

Lab Sample ID: P4602-45MSD **Date(s) Analyzed:** 11/11/2024 11/11/2024

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
DICAMBA	1	7.43	7.38	7.48	78.6	8.2
	2	7.95	7.90	8.00	72.4	
DICHLORPROP	1	8.14	8.09	8.19	47.4	7
	2	8.67	8.62	8.72	44.2	
2,4-D	1	8.37	8.32	8.42	91.1	19.1
	2	9.00	8.95	9.05	75.2	
2,4,5-TP(Silvex)	1	9.26	9.21	9.31	28.1	6.2
	2	9.91	9.86	9.96	29.9	
2,4,5-T	1	9.55	9.50	9.60	47.3	5.5
	2	10.33	10.28	10.38	50.0	
2,4-DB	1	10.12	10.07	10.17	34.9	40.3
	2	10.89	10.84	10.94	52.5	

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

COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.
PB164641BS

Contract: UNIO02

Lab Code: CHEM **Case No.:** P4663 **SAS No.:** P4663 **SDG NO.:** P4663

Lab Sample ID: PB164641BS **Date(s) Analyzed:** 11/05/2024 11/05/2024

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	8.17	8.12	8.22	185	2.7
	2	8.69	8.64	8.74	180	
2,4-D	1	8.40	8.35	8.45	186	5.5
	2	9.02	8.97	9.07	176	
2,4,5-TP(Silvex)	1	9.28	9.23	9.33	194	8.6
	2	9.93	9.88	9.98	178	
2,4,5-T	1	9.57	9.52	9.62	193	9.8
	2	10.35	10.30	10.40	175	
2,4-DB	1	10.15	10.10	10.20	188	13.6
	2	10.92	10.87	10.97	164	
Dinoseb	1	11.37	11.32	11.42	197	15.9
	2	11.30	11.25	11.35	168	
DICAMBA	1	7.46	7.41	7.51	179	1.1
	2	7.97	7.92	8.02	181	

SAMPLE RAW DATA

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS110524\
Data File : PS028226.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 05 Nov 2024 21:00
Operator : AR\AJ
Sample : P4663-02
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
TENNANT-PAD-2-3-STOCKPILE

Manual Integrations APPROVED

Reviewed By :Abdul Mirza 11/06/2024
Supervised By :Ankita Jodhani 11/06/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 06 00:33:08 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS110524.M
Quant Title : 8080.M
QLast Update : Wed Nov 06 00:14:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
4) S	2,4-DCAA	7.265	7.767	501.4E6	395.3E6	278.115m	252.744m
	Target Compounds						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

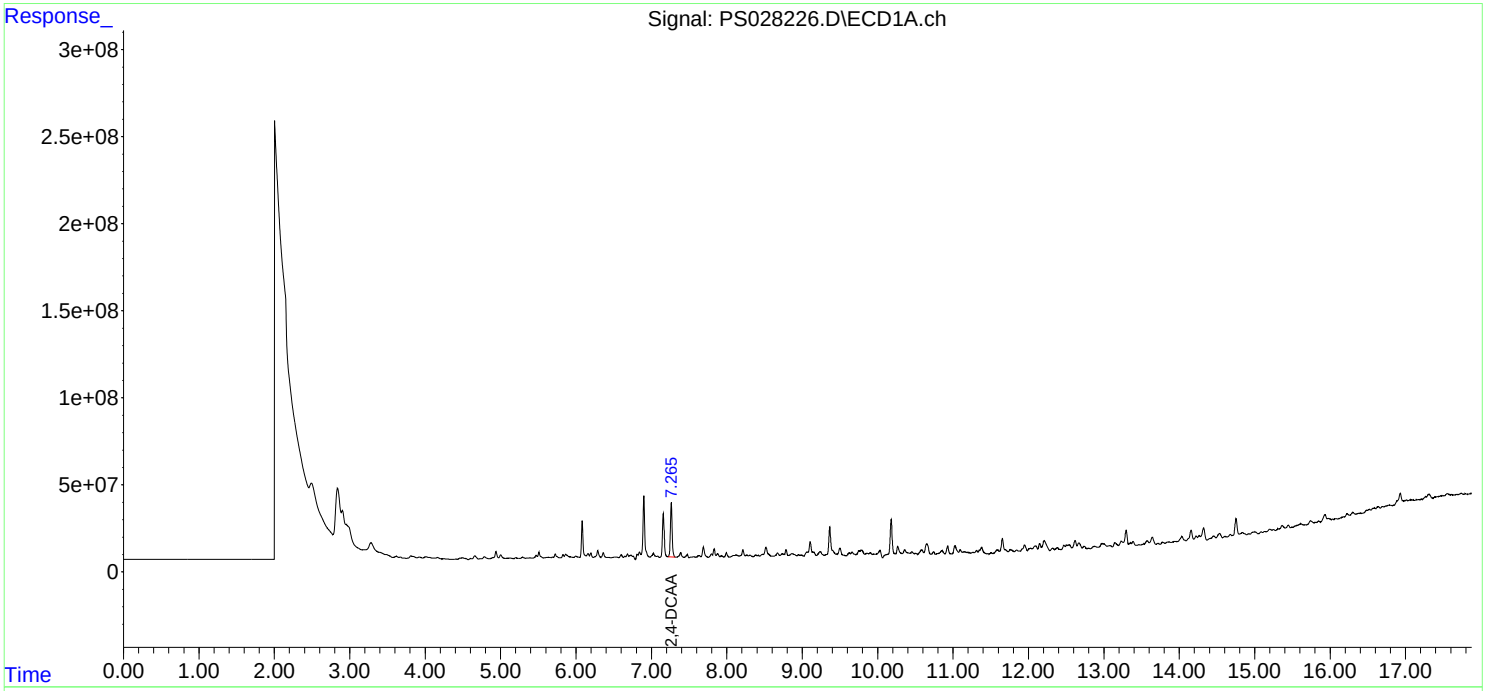
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS110524\
Data File : PS028226.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 05 Nov 2024 21:00
Operator : AR\AJ
Sample : P4663-02
Misc :
ALS Vial : 9 Sample Multiplier: 1

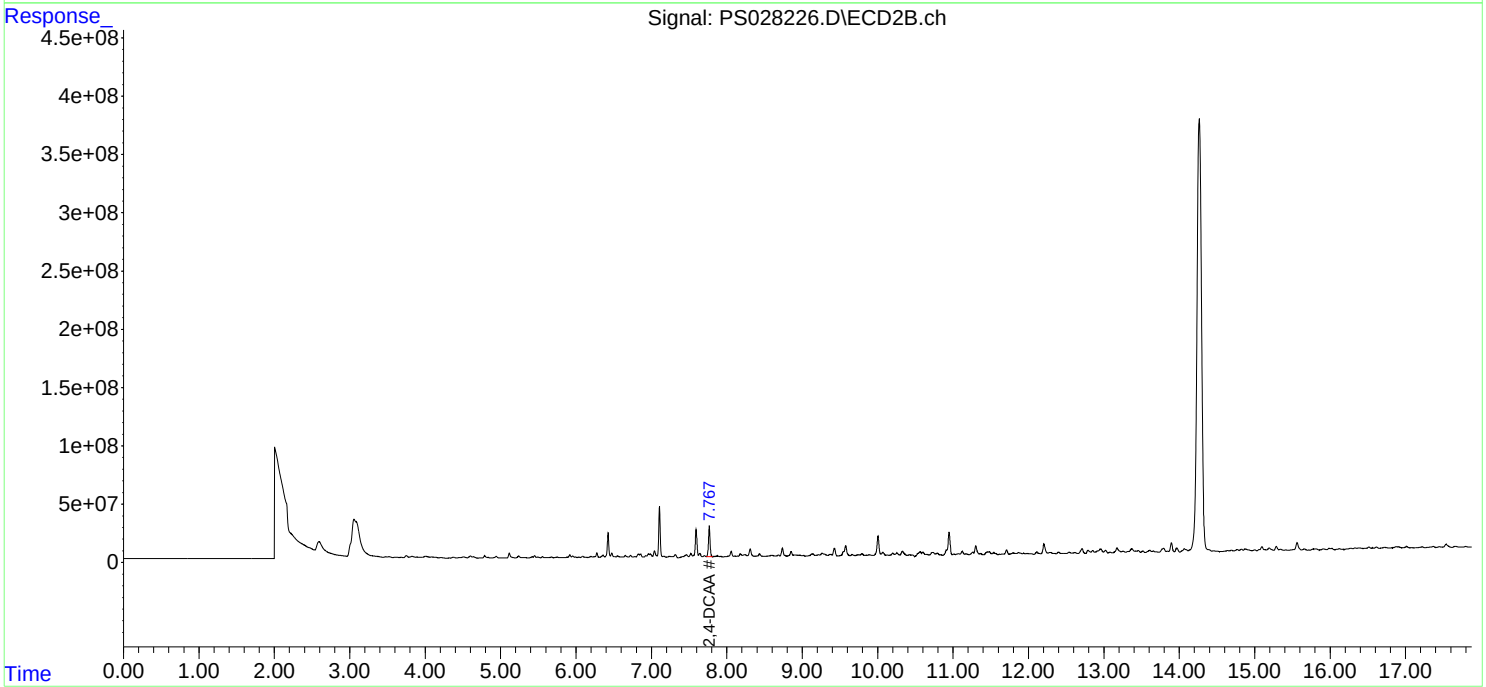
Instrument :
ECD_S
ClientSampleId :
TENNANT-PAD-2-3-STOCKPILE

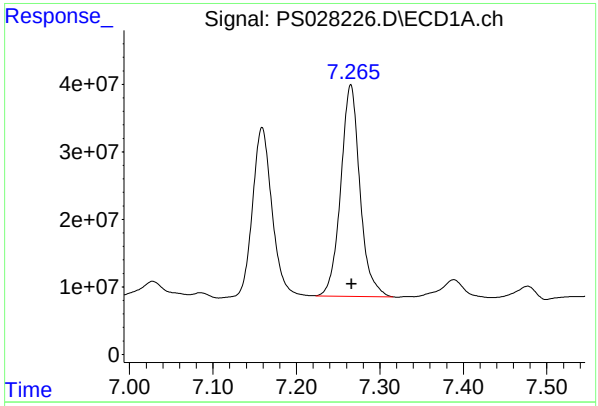
Manual Integrations APPROVED
Reviewed By :Abdul Mirza 11/06/2024
Supervised By :Ankita Jodhani 11/06/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 06 00:33:08 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS110524.M
Quant Title : 8080.M
QLast Update : Wed Nov 06 00:14:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm







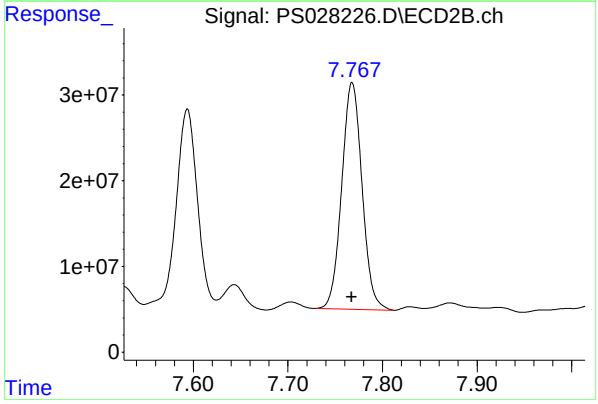
#4 2,4-DCAA

R.T.: 7.265 min
Delta R.T.: -0.001 mi
Response: 501449848
Conc: 278.11 ng/m

Instrument :
ECD_S
ClientSampleId :
TENNANT-PAD-2-3-STOCKPILE

Manual Integrations APPROVED

Reviewed By :Abdul Mirza 11/06/2024
Supervised By :Ankita Jodhani 11/06/2024



#4 2,4-DCAA

R.T.: 7.767 min
Delta R.T.: 0.000 min
Response: 395264104
Conc: 252.74 ng/ml m

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS110524\
Data File : PS028227.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 05 Nov 2024 21:24
Operator : AR\AJ
Sample : P4663-04
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
RES-BUILDING-PAD-NO-11

Manual Integrations APPROVED

Reviewed By :Abdul Mirza 11/06/2024
Supervised By :Ankita Jodhani 11/06/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 06 00:34:20 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS110524.M
Quant Title : 8080.M
QLast Update : Wed Nov 06 00:14:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
4) S	2,4-DCAA	7.265	7.768	485.9E6	385.9E6	269.474m	246.786m
	Target Compounds						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

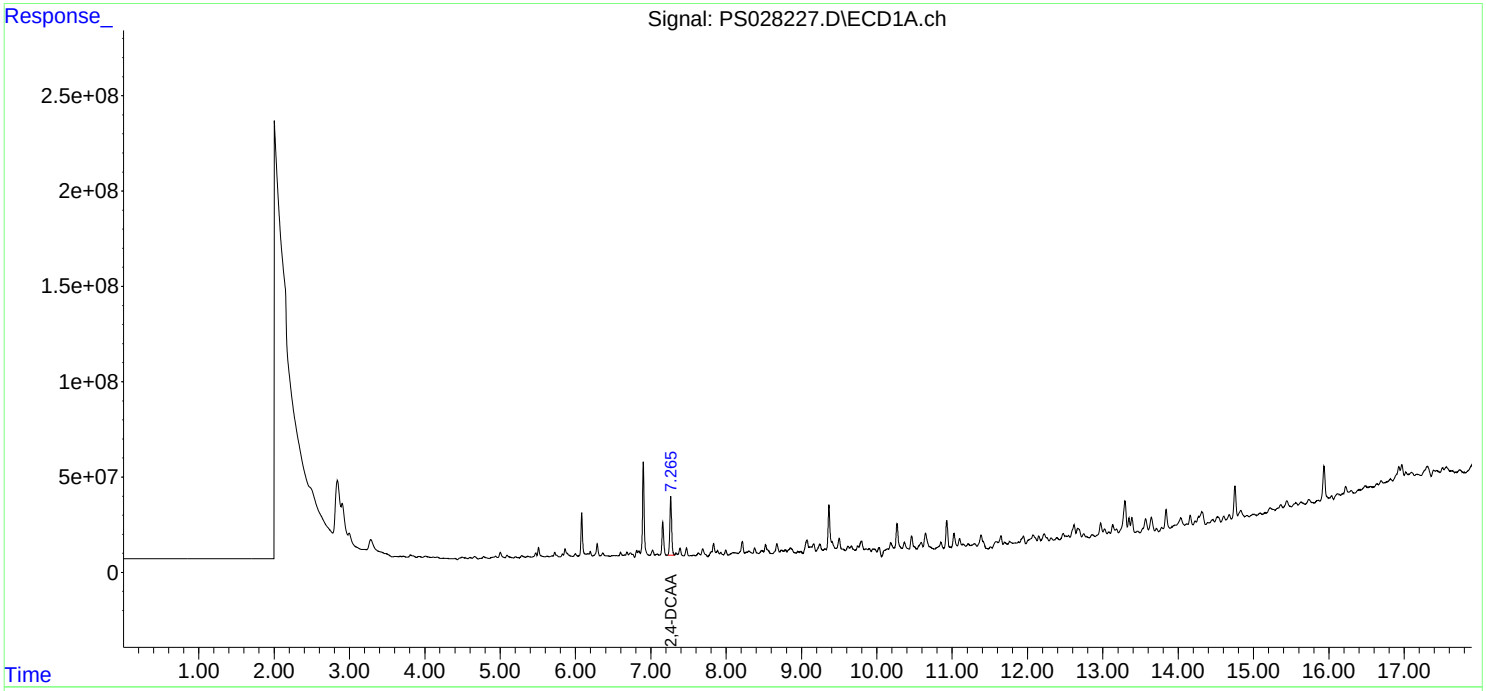
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS110524\
Data File : PS028227.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 05 Nov 2024 21:24
Operator : AR\AJ
Sample : P4663-04
Misc :
ALS Vial : 10 Sample Multiplier: 1

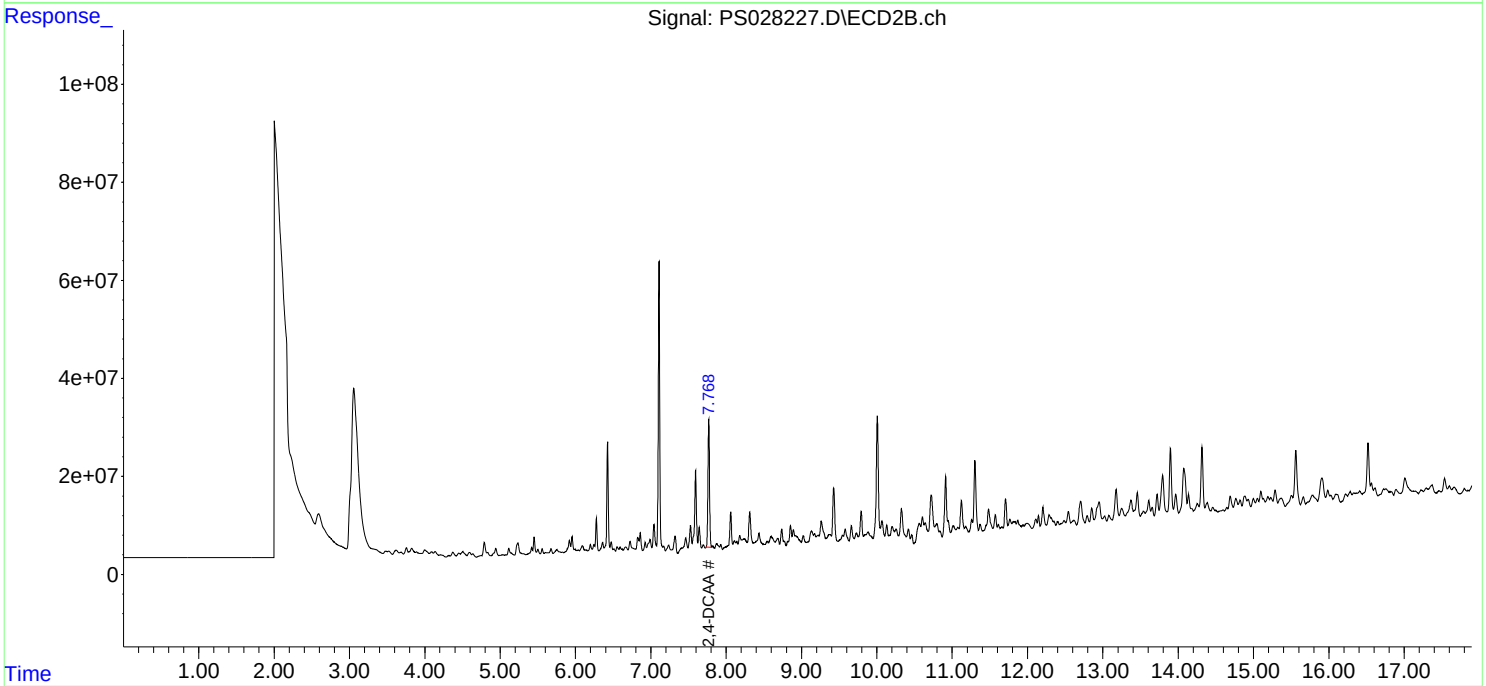
Instrument :
ECD_S
ClientSampleId :
RES-BUILDING-PAD-NO-11

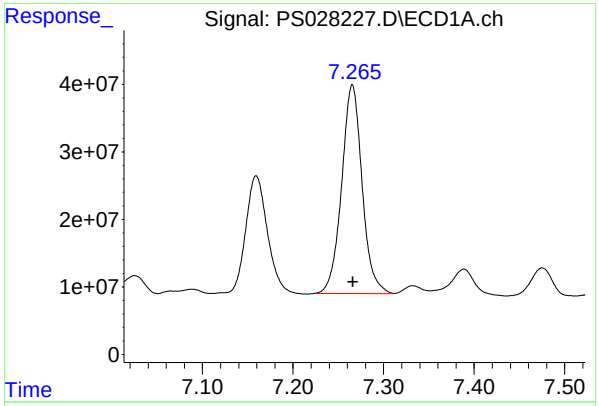
Manual Integrations APPROVED
Reviewed By :Abdul Mirza 11/06/2024
Supervised By :Ankita Jodhani 11/06/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 06 00:34:20 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS110524.M
Quant Title : 8080.M
QLast Update : Wed Nov 06 00:14:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm







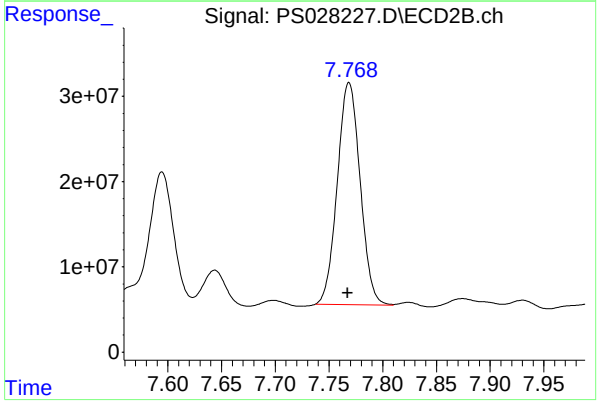
#4 2,4-DCAA

R.T.: 7.265 min
Delta R.T.: 0.000 min
Response: 485870074
Conc: 269.47 ng/ml

Instrument :
ECD_S
ClientSampleId :
RES-BUILDING-PAD-NO-11

Manual Integrations APPROVED

Reviewed By :Abdul Mirza 11/06/2024
Supervised By :Ankita Jodhani 11/06/2024



#4 2,4-DCAA

R.T.: 7.768 min
Delta R.T.: 0.000 min
Response: 385946630
Conc: 246.79 ng/ml m

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS110524\
Data File : PS028228.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 05 Nov 2024 21:48
Operator : AR\AJ
Sample : P4663-06
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
RES-BUILDING-PAD-NO-3

Manual Integrations APPROVED

Reviewed By :Abdul Mirza 11/06/2024
Supervised By :Ankita Jodhani 11/06/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 06 00:35:21 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS110524.M
Quant Title : 8080.M
QLast Update : Wed Nov 06 00:14:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
4) S	2,4-DCAA	7.266	7.769	448.4E6	302.7E6	248.690m	193.583
	Target Compounds						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

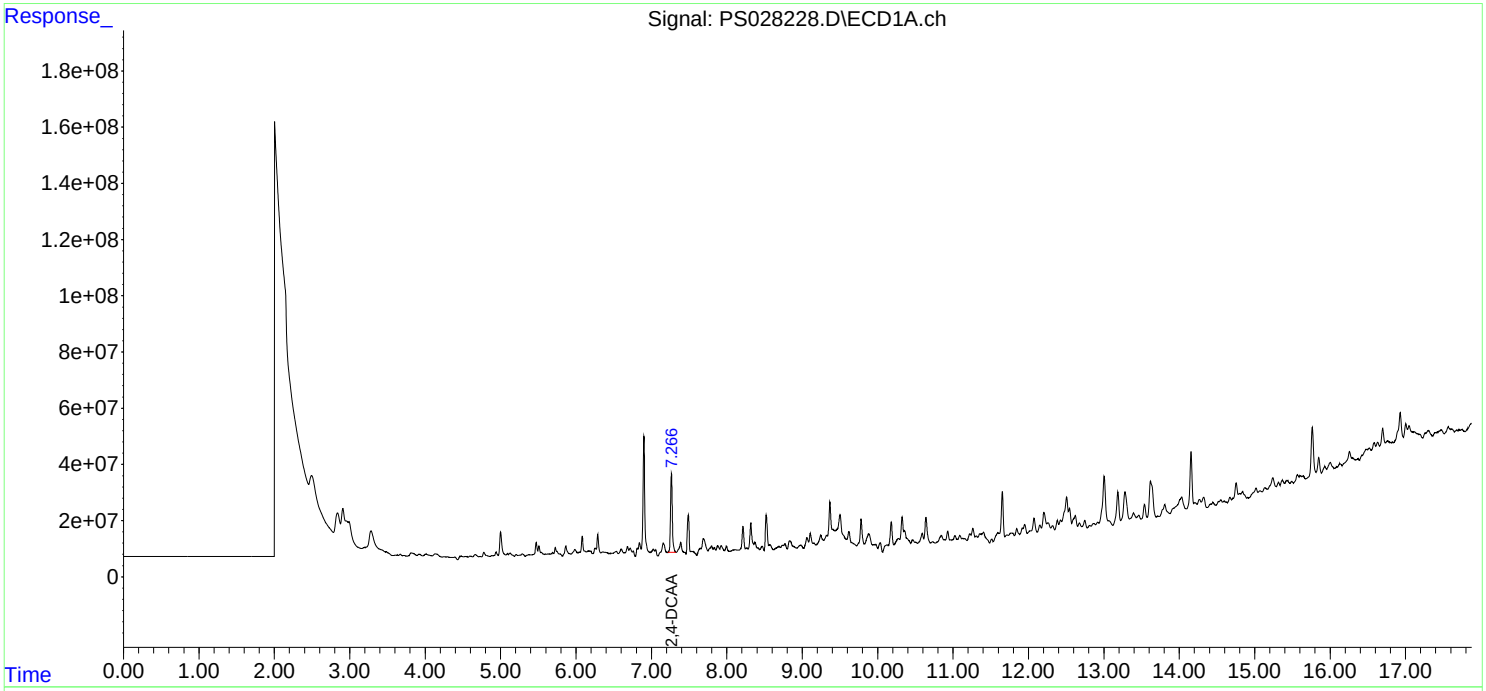
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS110524\
Data File : PS028228.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 05 Nov 2024 21:48
Operator : AR\AJ
Sample : P4663-06
Misc :
ALS Vial : 11 Sample Multiplier: 1

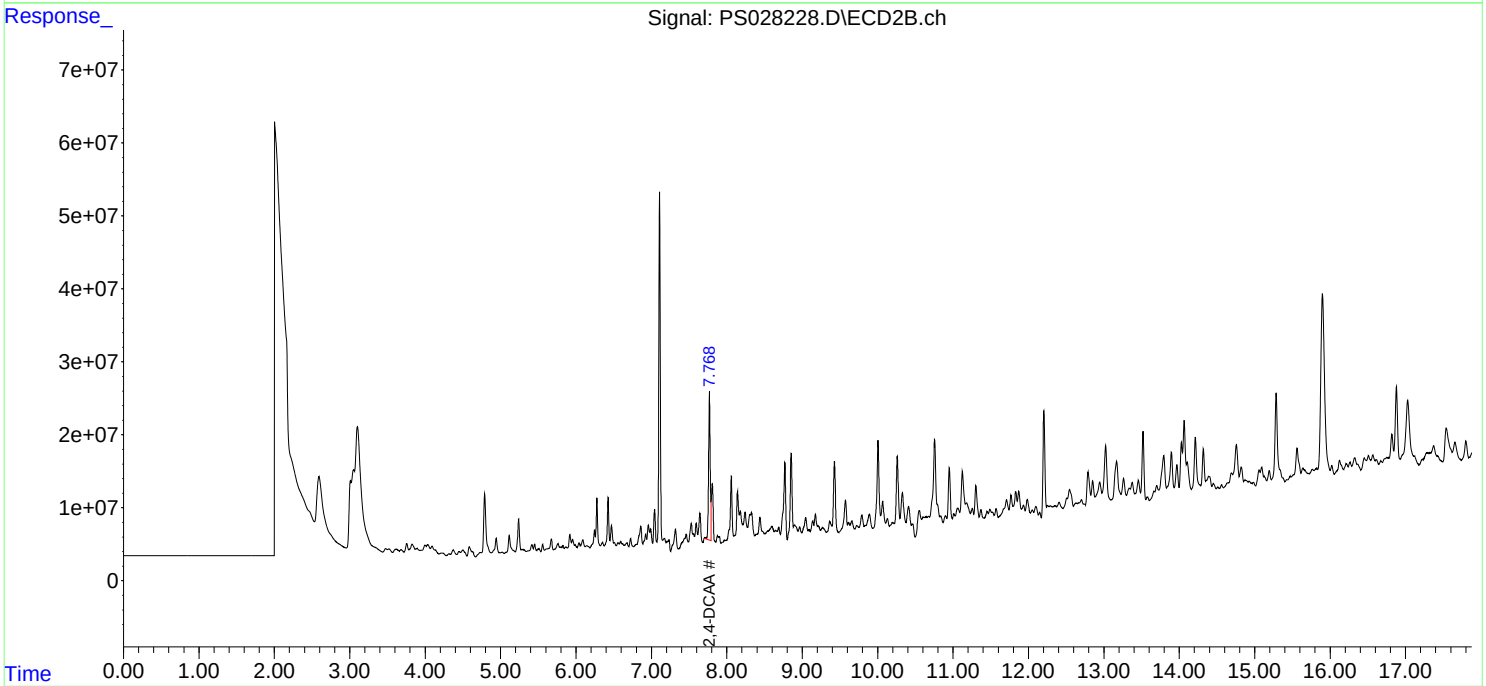
Instrument :
ECD_S
ClientSampleId :
RES-BUILDING-PAD-NO-3

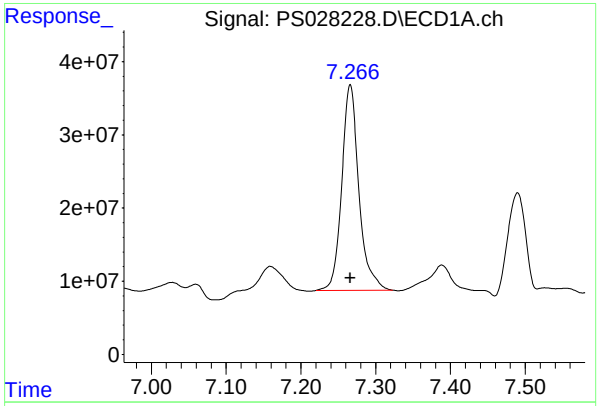
Manual Integrations APPROVED
Reviewed By :Abdul Mirza 11/06/2024
Supervised By :Ankita Jodhani 11/06/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 06 00:35:21 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS110524.M
Quant Title : 8080.M
QLast Update : Wed Nov 06 00:14:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm







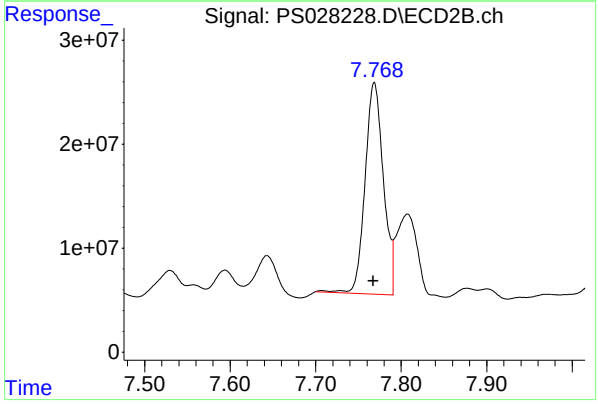
#4 2,4-DCAA

R.T.: 7.266 min
Delta R.T.: 0.000 min
Response: 448396223
Conc: 248.69 ng/ml

Instrument :
ECD_S
ClientSampleId :
RES-BUILDING-PAD-NO-3

Manual Integrations APPROVED

Reviewed By :Abdul Mirza 11/06/2024
Supervised By :Ankita Jodhani 11/06/2024



#4 2,4-DCAA

R.T.: 7.769 min
Delta R.T.: 0.001 min
Response: 302742902
Conc: 193.58 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS110524\
Data File : PS028229.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 05 Nov 2024 22:12
Operator : AR\AJ
Sample : P4663-08
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
RES-BUILDING-PAD-NO-2

Manual Integrations APPROVED

Reviewed By :Abdul Mirza 11/06/2024
Supervised By :Ankita Jodhani 11/06/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 06 00:36:25 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS110524.M
Quant Title : 8080.M
QLast Update : Wed Nov 06 00:14:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
4) S	2,4-DCAA	7.265	7.767	647.8E6	516.4E6	359.295m	330.195m
	Target Compounds						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

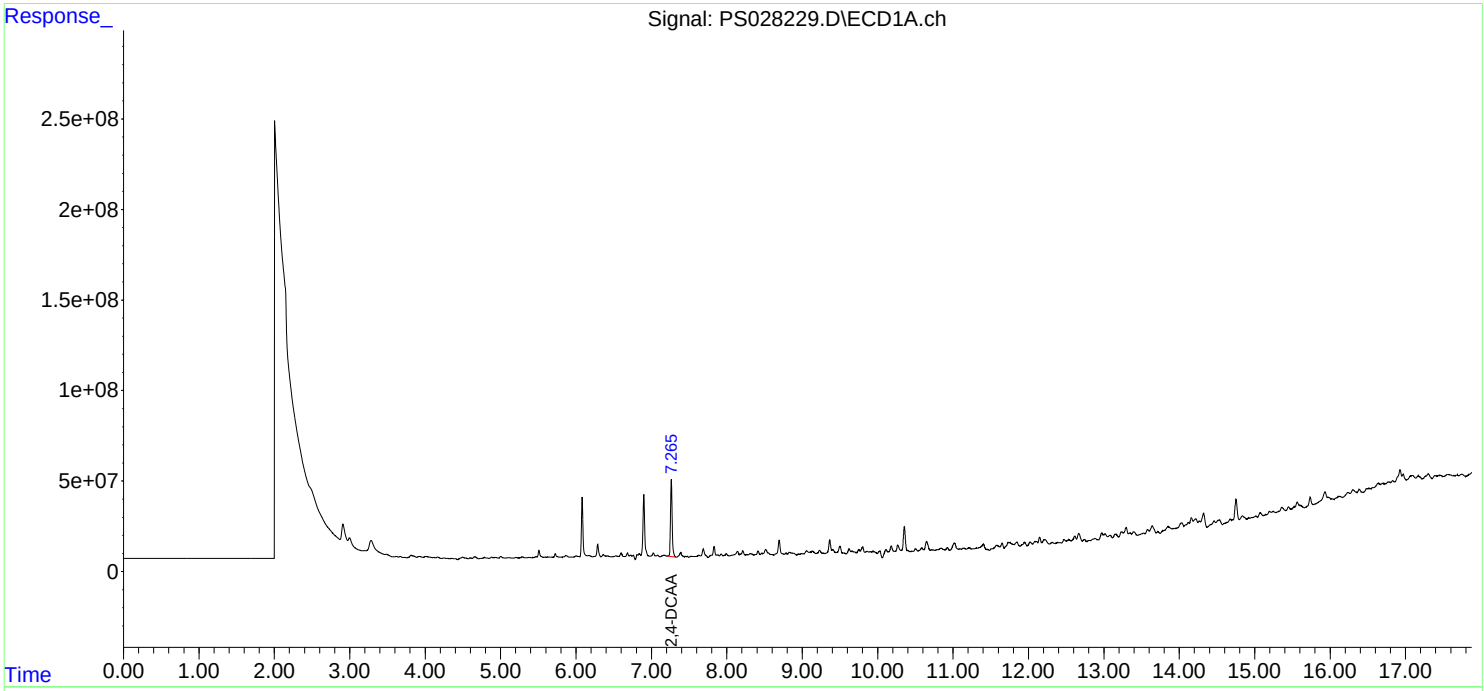
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS110524\
Data File : PS028229.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 05 Nov 2024 22:12
Operator : AR\AJ
Sample : P4663-08
Misc :
ALS Vial : 12 Sample Multiplier: 1

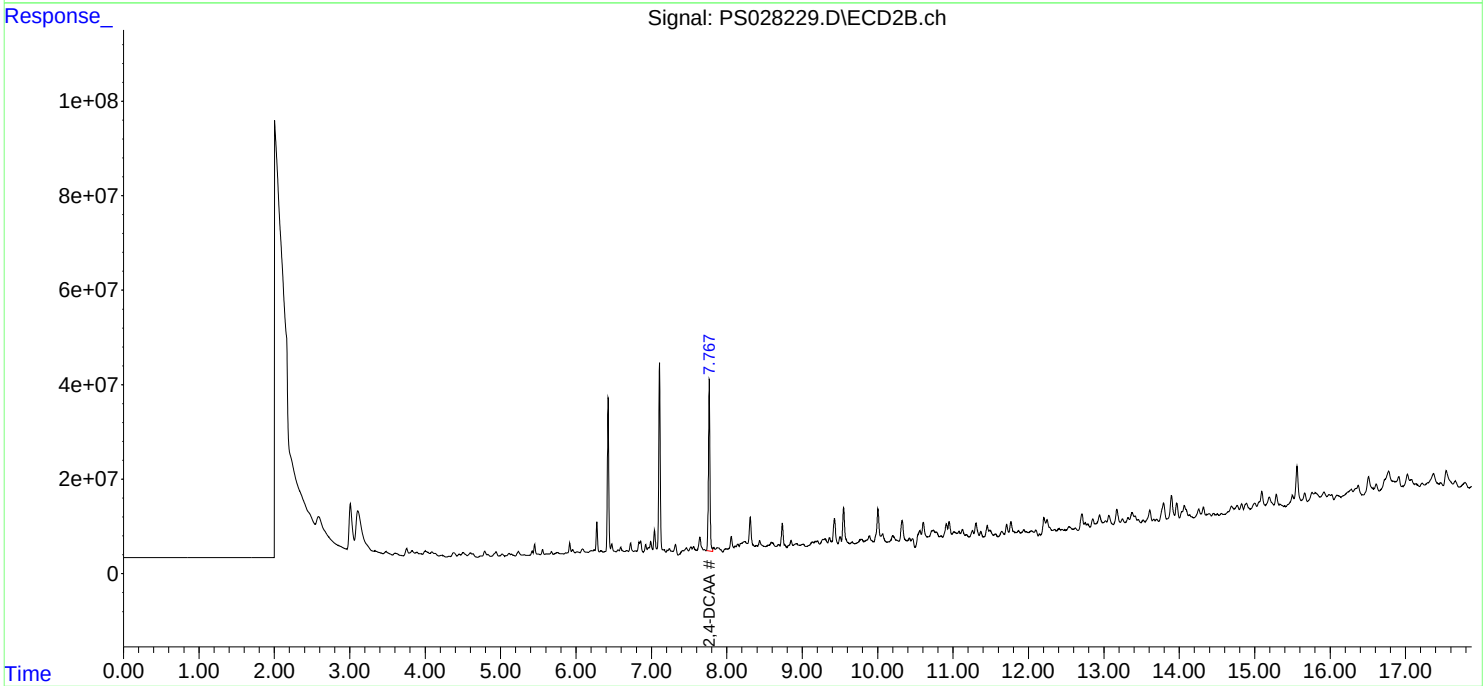
Instrument :
ECD_S
ClientSampleId :
RES-BUILDING-PAD-NO-2

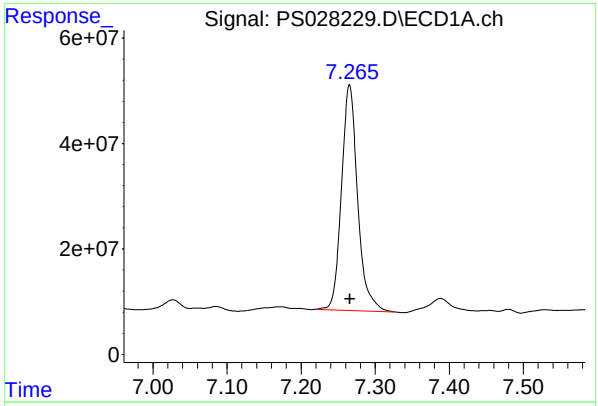
Manual Integrations APPROVED
Reviewed By :Abdul Mirza 11/06/2024
Supervised By :Ankita Jodhani 11/06/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 06 00:36:25 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS110524.M
Quant Title : 8080.M
QLast Update : Wed Nov 06 00:14:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm







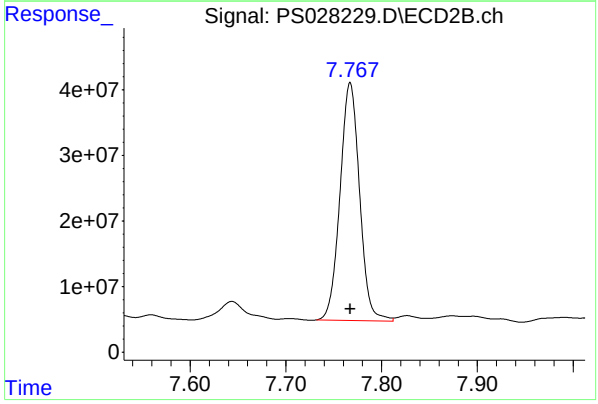
#4 2,4-DCAA

R.T.: 7.265 min
Delta R.T.: -0.001 mi
Response: 647821115
Conc: 359.30 ng/m

Instrument :
ECD_S
ClientSampleId :
RES-BUILDING-PAD-NO-2

Manual Integrations APPROVED

Reviewed By :Abdul Mirza 11/06/2024
Supervised By :Ankita Jodhani 11/06/2024



#4 2,4-DCAA

R.T.: 7.767 min
Delta R.T.: 0.000 min
Response: 516388977
Conc: 330.20 ng/ml m

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS110524\
Data File : PS028230.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 05 Nov 2024 22:36
Operator : AR\AJ
Sample : PB164641BL
Misc :
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 06 00:37:40 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS110524.M
Quant Title : 8080.M
QLast Update : Wed Nov 06 00:14:58 2024
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 :
PB164641BL

Manual Integrations APPROVED

Reviewed By :Abdul Mirza 11/06/2024
Supervised By :Ankita Jodhani 11/06/2024

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
4) S	2,4-DCAA	7.264	7.767	1032.0E6	888.3E6	572.342m	567.990m
	Target Compounds						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

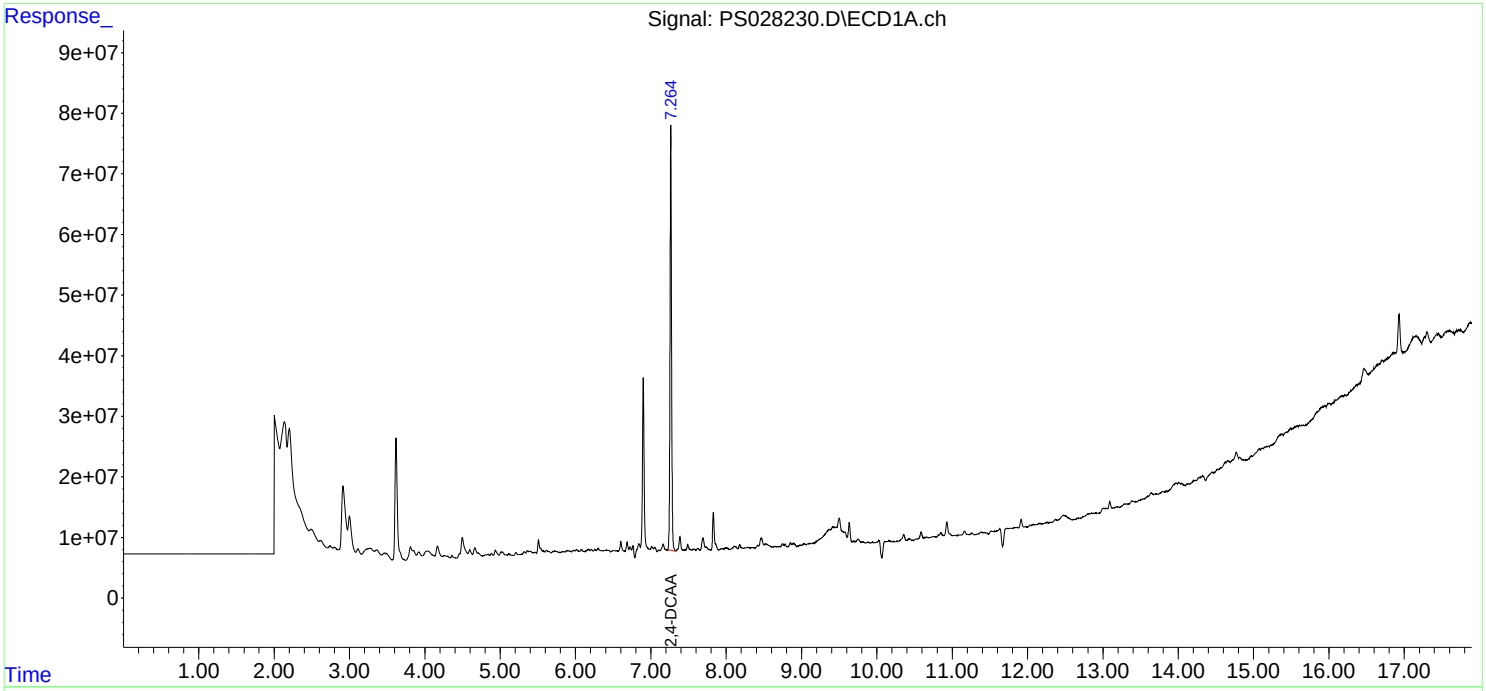
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS110524\
Data File : PS028230.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 05 Nov 2024 22:36
Operator : AR\AJ
Sample : PB164641BL
Misc :
ALS Vial : 13 Sample Multiplier: 1

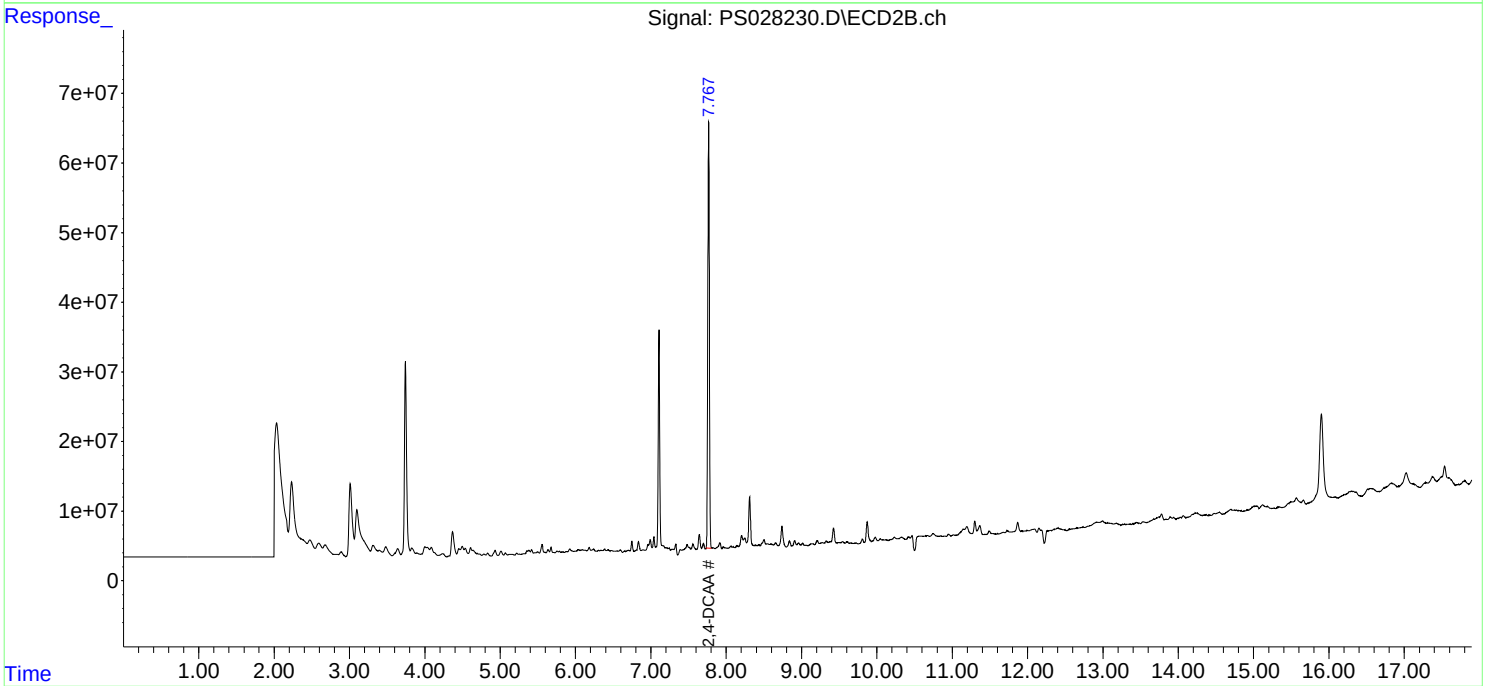
Instrument :
ECD_S
ClientSampleId :
PB164641BL

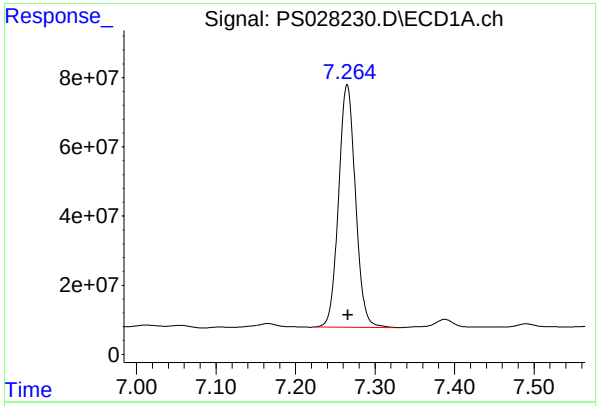
Manual Integrations APPROVED
Reviewed By :Abdul Mirza 11/06/2024
Supervised By :Ankita Jodhani 11/06/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 06 00:37:40 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS110524.M
Quant Title : 8080.M
QLast Update : Wed Nov 06 00:14:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm







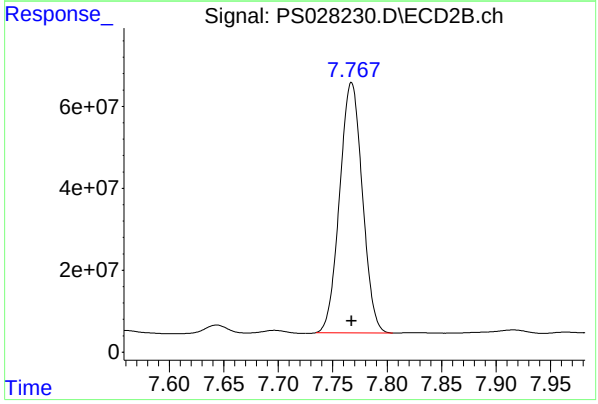
#4 2,4-DCAA

R.T.: 7.264 min
Delta R.T.: -0.002 mi
Response: 1031951122
Conc: 572.34 ng/m

Instrument :
ECD_S
ClientSampleId :
PB164641BL

Manual Integrations APPROVED

Reviewed By :Abdul Mirza 11/06/2024
Supervised By :Ankita Jodhani 11/06/2024



#4 2,4-DCAA

R.T.: 7.767 min
Delta R.T.: 0.000 min
Response: 888273088
Conc: 567.99 ng/ml m

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS110524\
Data File : PS028231.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 05 Nov 2024 23:00
Operator : AR\AJ
Sample : PB164641BS
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
PB164641BS

Manual Integrations APPROVED
Reviewed By :Abdul Mirza 11/06/2024
Supervised By :Ankita Jodhani 11/06/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 06 00:38:38 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS110524.M
Quant Title : 8080.M
QLast Update : Wed Nov 06 00:14:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
4) S	2,4-DCAA	7.265	7.767	1033.7E6	894.0E6	573.313	571.667
	Target Compounds						
1) T	Dalapon	2.657	2.710	1487.1E6	1366.4E6	466.797	493.729
2) T	3,5-DICHL...	6.433	6.718	1458.3E6	1244.7E6	520.321	531.243
3) T	4-Nitroph...	7.065	7.293	614.1E6	544.4E6	518.167	514.235
5) T	DICAMBA	7.455	7.969	4234.4E6	3918.0E6	536.093	543.200
6) T	MCPP	7.636	8.069	288.7E6	286.4E6	52.433m	55.342
7) T	MCPA	7.787	8.315	415.3E6	389.6E6	51.207	54.317
8) T	DICHLORPROP	8.166	8.687	1004.8E6	940.6E6	556.164	540.388
9) T	2,4-D	8.397	9.018	1132.0E6	1030.3E6	558.331	528.378m
10) T	Pentachlo...	8.698	9.550	15485.4E6	14200.5E6	578.981	548.914
11) T	2,4,5-TP ...	9.280	9.926	5835.8E6	5755.7E6	583.036	535.296
12) T	2,4,5-T	9.573	10.348	5922.5E6	5606.7E6	579.668	524.086
13) T	2,4-DB	10.151	10.916	932.2E6	683.6E6	565.312	493.175
14) T	DINOSEB	11.368	11.296	4435.9E6	3794.9E6	590.382	505.900
15) T	Picloram	11.173	12.397	9875.3E6	7837.1E6	565.939	477.360
16) T	DCPA	11.660	12.344	7625.0E6	6025.4E6	612.460	478.059

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

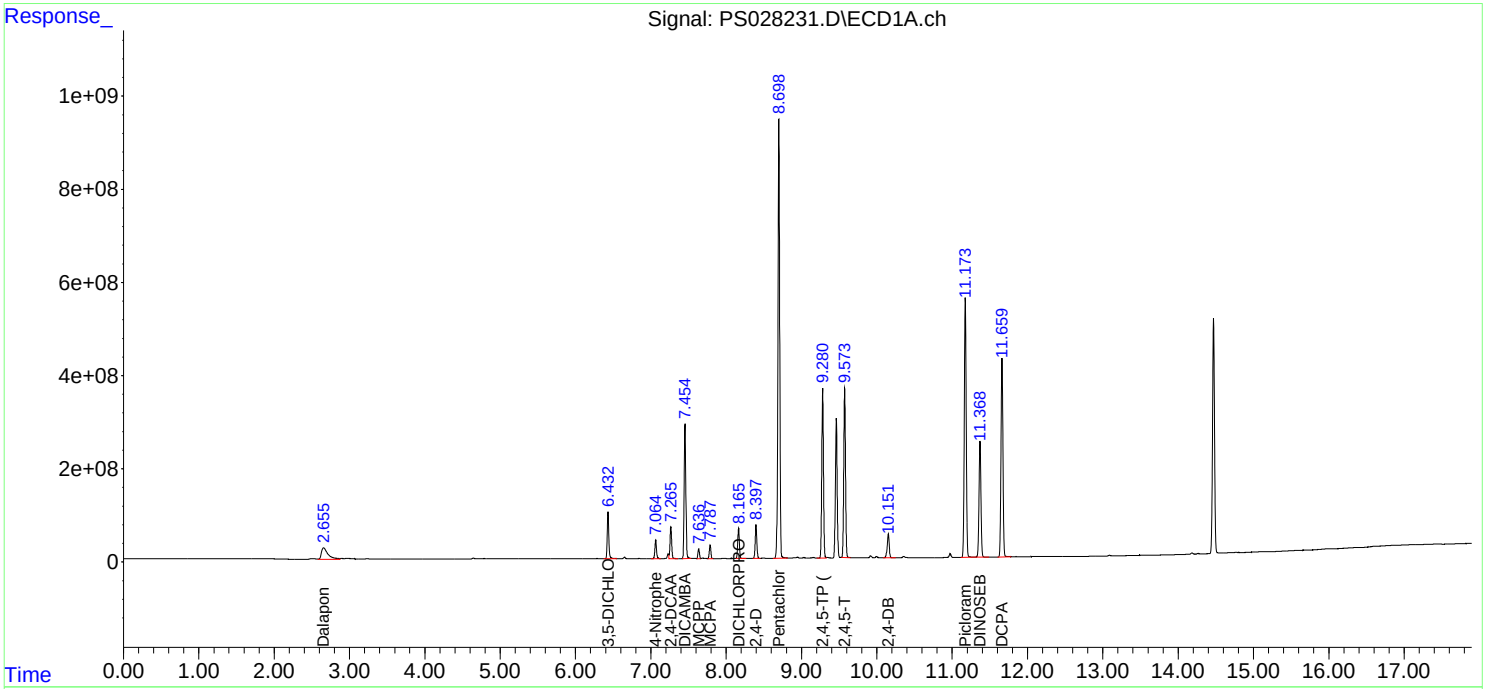
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS110524\
Data File : PS028231.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 05 Nov 2024 23:00
Operator : AR\AJ
Sample : PB164641BS
Misc :
ALS Vial : 14 Sample Multiplier: 1

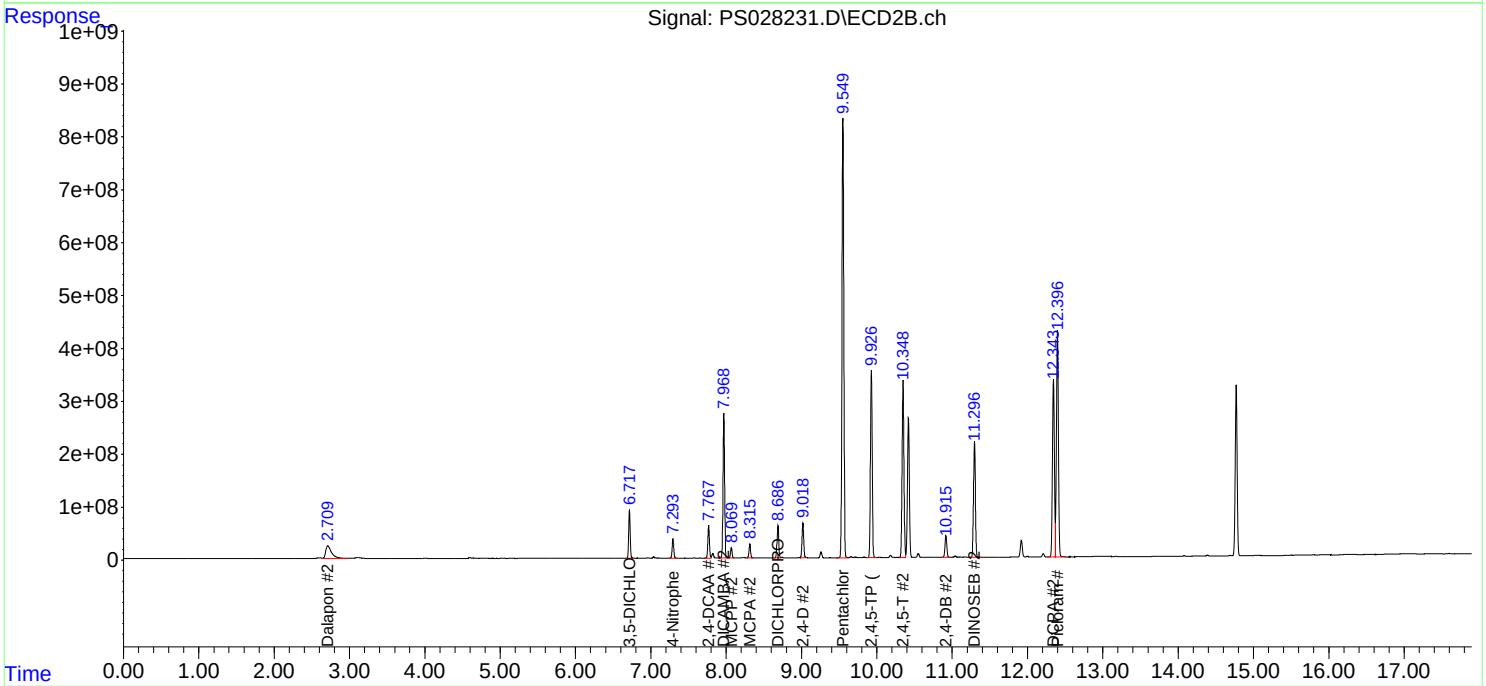
Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 06 00:38:38 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS110524.M
Quant Title : 8080.M
QLast Update : Wed Nov 06 00:14:58 2024
Response via : Initial Calibration
Integrator: ChemStation

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 :
PB164641BS

Manual Integrations APPROVED
Reviewed By :Abdul Mirza 11/06/2024
Supervised By :Ankita Jodhani 11/06/2024





Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS111124\
Data File : PS028408.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 11 Nov 2024 17:21
Operator : AR\AJ
Sample : P4602-44MS
Misc :
ALS Vial : 44 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
CC0R8MS

Manual Integrations APPROVED
Reviewed By :Abdul Mirza 11/12/2024
Supervised By :Ankita Jodhani 11/12/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 11 23:21:44 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS110924.M
Quant Title : 8080.M
QLast Update : Fri Nov 08 17:46:43 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
4) S	2,4-DCAA	7.245	7.752	1036.4E6	403.2E6	375.420	253.022 #
	Target Compounds						
1) T	Dalapon	2.640	2.706	452.7E6	595.8E6	126.860	210.121m#
2) T	3,5-DICHL...	6.416	6.704	630.1E6	337.2E6	157.464	142.337
3) T	4-Nitroph...	7.046	7.278	201.8E6	118.4E6	108.807	111.763m
5) T	DICAMBA	7.434	7.953	2582.7E6	1418.3E6	214.496	197.822
6) T	MCPP	7.613	8.047	63463933	136.0E6	7.760	23.156 #
7) T	MCPA	7.765	8.295	243.3E6	165.7E6	21.703	20.687
8) T	DICHLORPROP	8.143	8.670	400.9E6	213.4E6	129.339	119.782
9) T	2,4-D	8.375	9.000	873.8E6	398.0E6	248.649	205.836
10) T	Pentachlo...	8.674	9.530	2483.5E6	1186.9E6	55.137	47.633
11) T	2,4,5-TP ...	9.255	9.907	1459.5E6	865.2E6	77.106	81.685
12) T	2,4,5-T	9.547	10.328	2505.7E6	1410.5E6	129.287	135.939
13) T	2,4-DB	10.124	10.894	301.7E6	191.3E6	97.613	144.351m#
14) T	DINOSEB	11.352	11.278	281.8E6	220.5E6	17.384m	30.728 #
15) T	Picloram	11.144	12.373	8537.3E6	3368.7E6	271.836	234.061
16) T	DCPA	11.630	12.321	9075.4E6	3896.0E6	339.568	347.545

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

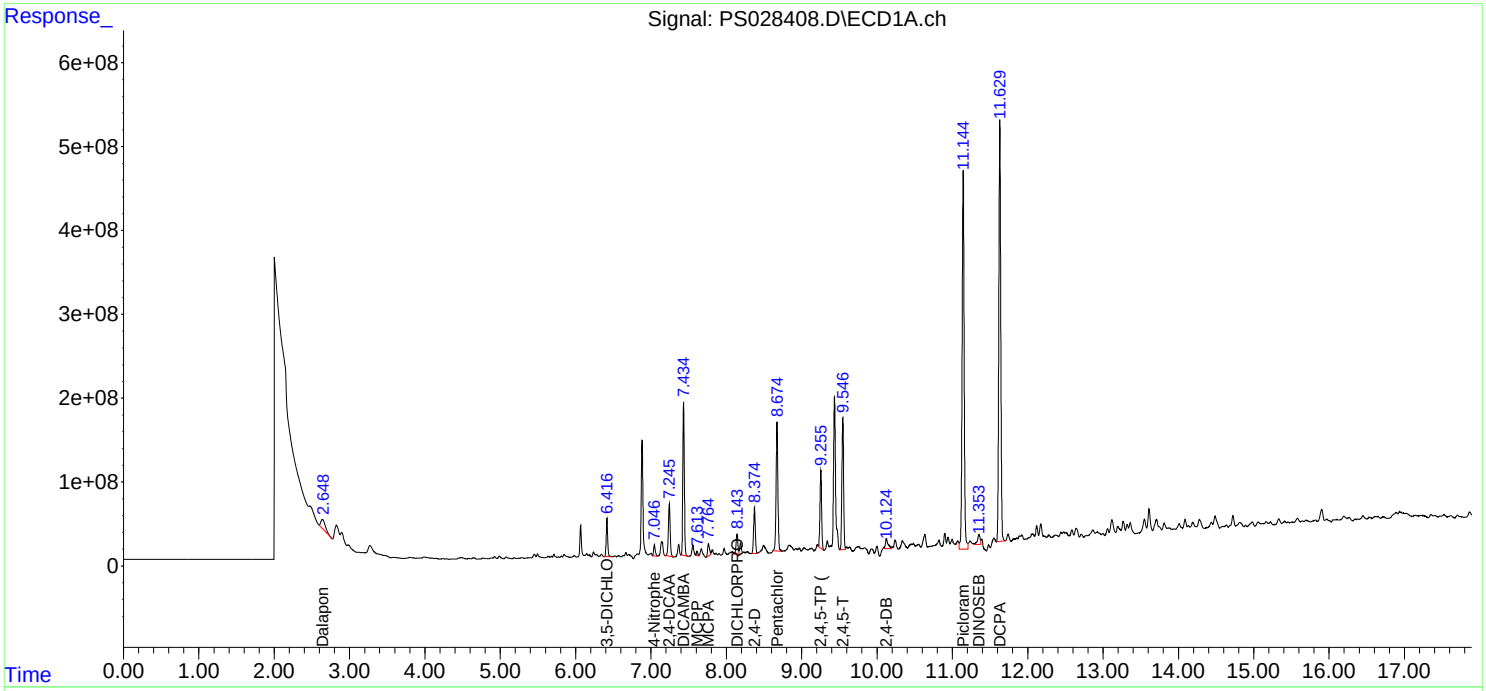
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS111124\
Data File : PS028408.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 11 Nov 2024 17:21
Operator : AR\AJ
Sample : P4602-44MS
Misc :
ALS Vial : 44 Sample Multiplier: 1

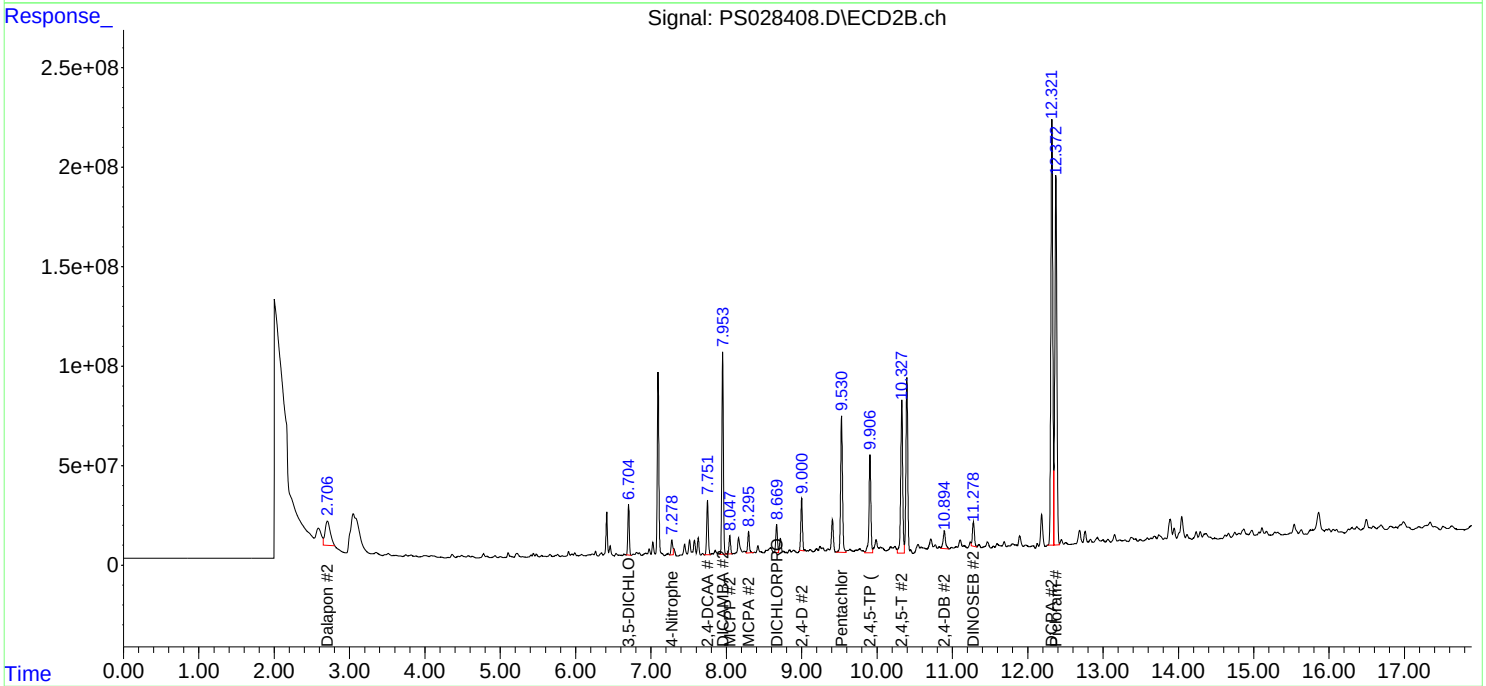
Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 11 23:21:44 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS110924.M
Quant Title : 8080.M
QLast Update : Fri Nov 08 17:46:43 2024
Response via : Initial Calibration
Integrator: ChemStation

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 :
CC0R8MS

Manual Integrations APPROVED
Reviewed By :Abdul Mirza 11/12/2024
Supervised By :Ankita Jodhani 11/12/2024





Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS111124\
Data File : PS028409.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 11 Nov 2024 17:45
Operator : AR\AJ
Sample : P4602-45MSD
Misc :
ALS Vial : 45 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
CC0R8MSD

Manual Integrations APPROVED
Reviewed By :Abdul Mirza 11/12/2024
Supervised By :Ankita Jodhani 11/12/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 11 23:22:42 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS110924.M
Quant Title : 8080.M
QLast Update : Fri Nov 08 17:46:43 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
4) S	2,4-DCAA	7.244	7.752	1045.6E6	405.4E6	378.734	254.399 #
	Target Compounds						
1) T	Dalapon	2.640	2.706	448.0E6	499.2E6	125.544	176.051m#
2) T	3,5-DICHL...	6.416	6.704	635.1E6	338.0E6	158.724	142.681
3) T	4-Nitroph...	7.046	7.278	203.6E6	115.9E6	109.781	109.448m
5) T	DICAMBA	7.434	7.953	2602.9E6	1428.0E6	216.171	199.183
6) T	MCPP	7.613	8.047	63258269	137.9E6	7.735	23.466 #
7) T	MCPA	7.764	8.295	246.3E6	165.8E6	21.967	20.703
8) T	DICHLORPROP	8.143	8.669	404.3E6	216.6E6	130.425	121.595
9) T	2,4-D	8.374	9.000	880.6E6	400.0E6	250.590	206.827
10) T	Pentachlo...	8.673	9.530	2504.2E6	1201.3E6	55.596	48.214
11) T	2,4,5-TP ...	9.255	9.906	1461.5E6	872.7E6	77.211	82.390
12) T	2,4,5-T	9.546	10.328	2520.0E6	1427.8E6	130.026	137.607
13) T	2,4-DB	10.124	10.892	296.6E6	191.4E6	95.963	144.427m#
14) T	DINOSEB	11.353	11.278	319.0E6	223.0E6	19.674m	31.075 #
15) T	Picloram	11.144	12.373	8599.0E6	3398.7E6	273.801	236.146
16) T	DCPA	11.629	12.320	9152.7E6	3936.6E6	342.459	351.161

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

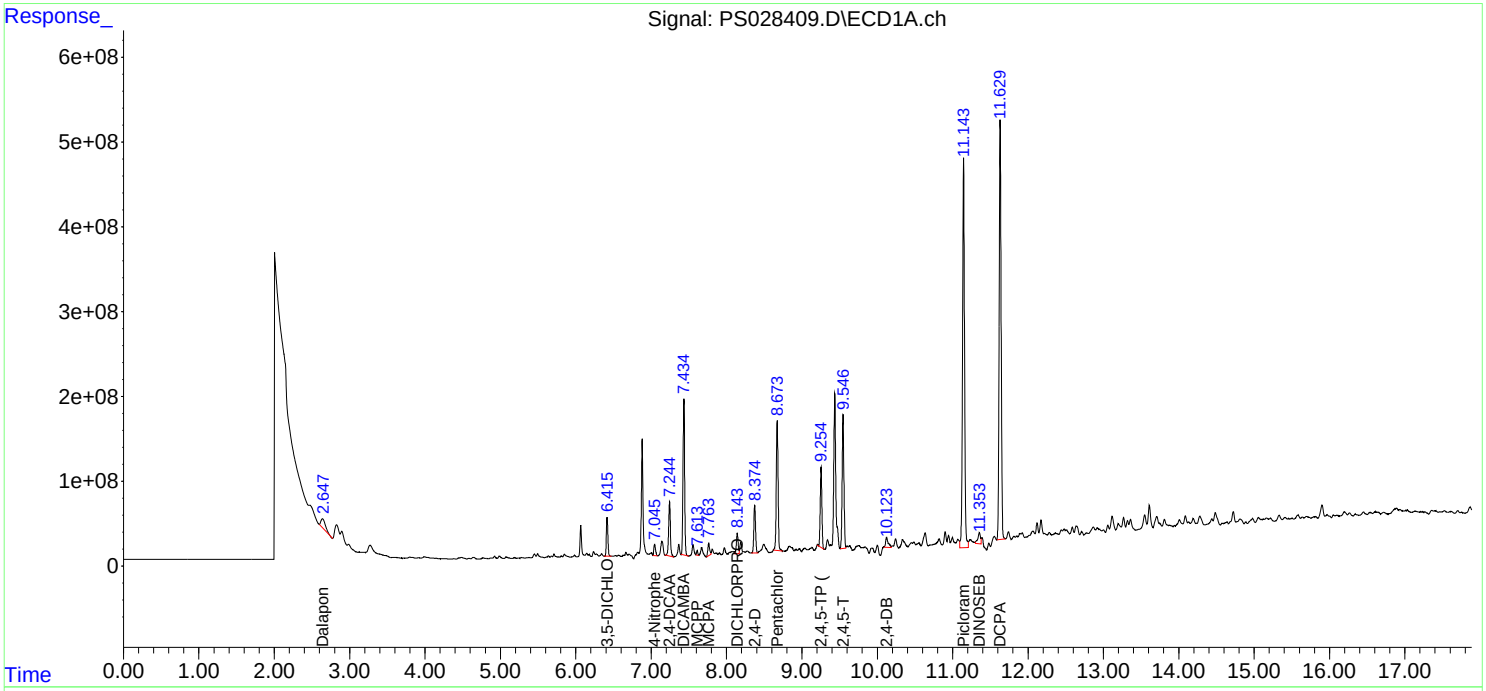
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS111124\
Data File : PS028409.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 11 Nov 2024 17:45
Operator : AR\AJ
Sample : P4602-45MSD
Misc :
ALS Vial : 45 Sample Multiplier: 1

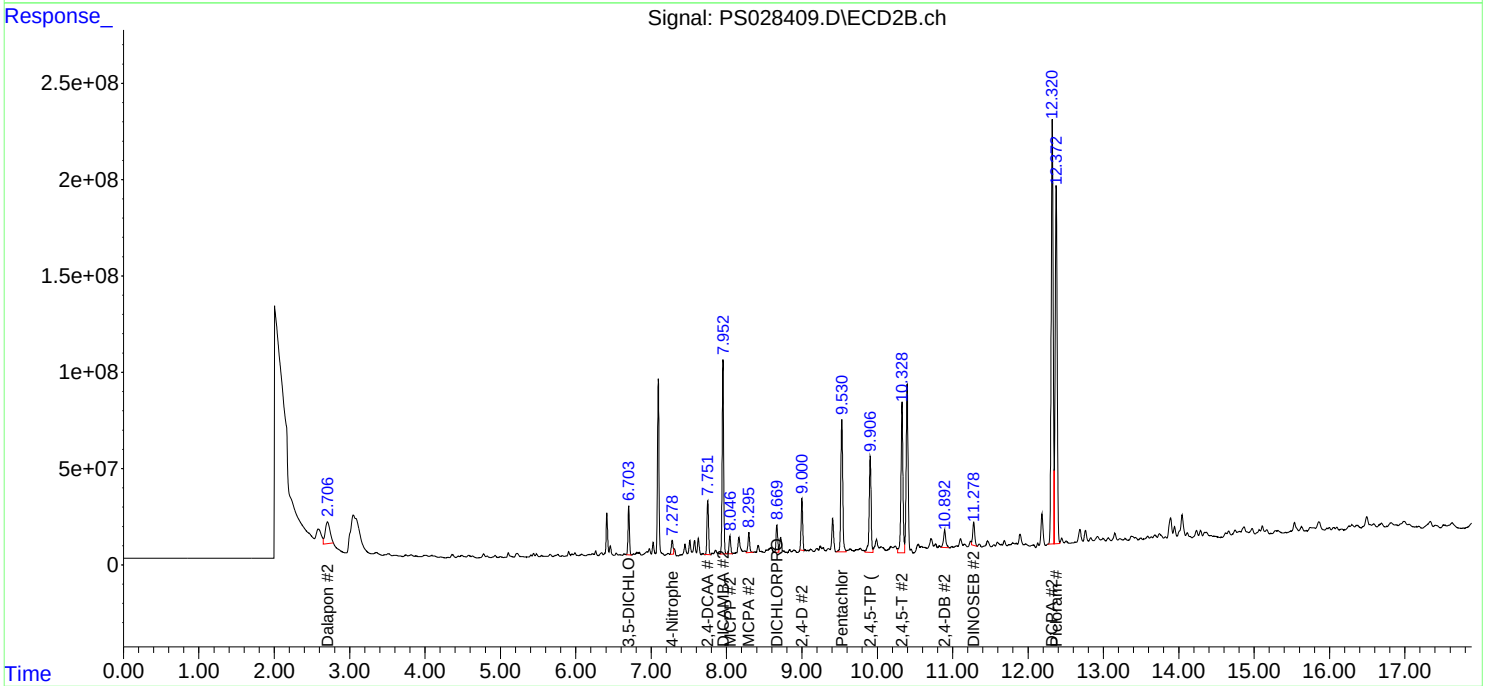
Instrument :
ECD_S
ClientSampleId :
CC0R8MSD

Manual Integrations APPROVED
Reviewed By :Abdul Mirza 11/12/2024
Supervised By :Ankita Jodhani 11/12/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 11 23:22:42 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS110924.M
Quant Title : 8080.M
QLast Update : Fri Nov 08 17:46:43 2024
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:	PS110524	Instrument	ECD_s

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
HSTDICC200	PS028218.D	2,4-DCAA	Abdul	11/6/2024 5:38:49 PM	Ankita	11/7/2024 8:41:19	Peak Integrated by Software
HSTDICC200	PS028218.D	MCPP	Abdul	11/6/2024 5:38:49 PM	Ankita	11/7/2024 8:41:19	Peak Integrated by Software
HSTDICC500	PS028219.D	MCPP	Abdul	11/6/2024 5:38:55 PM	Ankita	11/7/2024 8:41:20	Peak Integrated by Software
HSTDICC1000	PS028221.D	2,4-DCAA	Abdul	11/6/2024 5:38:58 PM	Ankita	11/7/2024 8:41:22	Peak Integrated by Software
P4663-02	PS028226.D	2,4-DCAA	Abdul	11/6/2024 10:24:53 AM	Ankita	11/6/2024 1:06:25	Peak Integrated by Software
P4663-02	PS028226.D	2,4-DCAA #2	Abdul	11/6/2024 10:24:53 AM	Ankita	11/6/2024 1:06:25	Peak Integrated by Software
P4663-04	PS028227.D	2,4-DCAA	Abdul	11/6/2024 10:25:10 AM	Ankita	11/6/2024 1:06:27	Peak Integrated by Software
P4663-04	PS028227.D	2,4-DCAA #2	Abdul	11/6/2024 10:25:10 AM	Ankita	11/6/2024 1:06:27	Peak Integrated by Software
P4663-06	PS028228.D	2,4-DCAA	Abdul	11/6/2024 10:25:15 AM	Ankita	11/6/2024 1:06:29	Peak Integrated by Software
P4663-08	PS028229.D	2,4-DCAA	Abdul	11/6/2024 10:26:56 AM	Ankita	11/6/2024 1:06:31	Peak Integrated by Software
P4663-08	PS028229.D	2,4-DCAA #2	Abdul	11/6/2024 10:26:56 AM	Ankita	11/6/2024 1:06:31	Peak Integrated by Software
PB164641BL	PS028230.D	2,4-DCAA	Abdul	11/6/2024 10:25:20 AM	Ankita	11/6/2024 1:06:33	Peak Integrated by Software
PB164641BL	PS028230.D	2,4-DCAA #2	Abdul	11/6/2024 10:25:20 AM	Ankita	11/6/2024 1:06:33	Peak Integrated by Software

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

Manual Integration Report

Sequence:	PS110524	Instrument	ECD_s

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
PB164641BS	PS028231.D	2,4-D #2	Abdul	11/6/2024 10:25:24 AM	Ankita	11/6/2024 1:06:35	Peak Integrated by Software
PB164641BS	PS028231.D	MCPP	Abdul	11/6/2024 10:25:24 AM	Ankita	11/6/2024 1:06:35	Peak Integrated by Software
I.BLK	PS028236.D	2,4-DCAA	Abdul	11/6/2024 10:25:36 AM	Ankita	11/6/2024 1:06:42	Peak Integrated by Software

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Manual Integration Report

Sequence:	PS110924	Instrument	ECD_s

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
HSTDICC500	PS028357.D	2,4-DCAA	Abdul	11/11/2024 5:06:04 PM	Ankita	11/12/2024 8:58:43	Peak Integrated by Software
I.BLK	PS028362.D	2,4-DCAA	Abdul	11/11/2024 5:06:07 PM	Ankita	11/12/2024 8:58:45	Peak Integrated by Software

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Manual Integration Report

Sequence:	ps111124	Instrument	ECD_s

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
HSTDCCC750	PS028394.D	2,4-DCAA	yogesh	11/12/2024 5:14:37 AM	Ankita	11/12/2024 9:00:00	Peak Integrated by Software
HSTDCCC750	PS028406.D	2,4-D #2	Abdul	11/12/2024 3:48:55 PM	Ankita	11/12/2024 4:00:08	Peak Integrated by Software
P4602-44MS	PS028408.D	2,4-DB #2	Abdul	11/12/2024 9:01:13 AM	Ankita	11/12/2024 9:04:06	Peak Integrated by Software
P4602-44MS	PS028408.D	4-Nitrophenol #2	Abdul	11/12/2024 9:01:13 AM	Ankita	11/12/2024 9:04:06	Peak Integrated by Software
P4602-44MS	PS028408.D	Dalapon #2	Abdul	11/12/2024 9:01:13 AM	Ankita	11/12/2024 9:04:06	Peak Integrated by Software
P4602-44MS	PS028408.D	DINOSEB	Abdul	11/12/2024 9:01:13 AM	Ankita	11/12/2024 9:04:06	Peak Integrated by Software
P4602-45MSD	PS028409.D	2,4-DB #2	Abdul	11/12/2024 9:01:15 AM	Ankita	11/12/2024 9:04:08	Peak Integrated by Software
P4602-45MSD	PS028409.D	4-Nitrophenol #2	Abdul	11/12/2024 9:01:15 AM	Ankita	11/12/2024 9:04:08	Peak Integrated by Software
P4602-45MSD	PS028409.D	Dalapon #2	Abdul	11/12/2024 9:01:15 AM	Ankita	11/12/2024 9:04:08	Peak Integrated by Software
P4602-45MSD	PS028409.D	DINOSEB	Abdul	11/12/2024 9:01:15 AM	Ankita	11/12/2024 9:04:08	Peak Integrated by Software
HSTDCCC750	PS028418.D	2,4-DB #2	Abdul	11/12/2024 3:48:58 PM	Ankita	11/12/2024 4:00:10	Peak Integrated by Software
HSTDCCC750	PS028418.D	2,4-DCAA	Abdul	11/12/2024 3:48:58 PM	Ankita	11/12/2024 4:00:10	Peak Integrated by Software
HSTDCCC750	PS028442.D	2,4-D #2	Abdul	11/12/2024 3:50:02 PM	Ankita	11/12/2024 4:00:20	Peak Integrated by Software

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Manual Integration Report

Sequence:	ps111124	Instrument	ECD_s

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
HSTDCCC750	PS028442.D	2,4-DB #2	Abdul	11/12/2024 3:50:02 PM	Ankita	11/12/2024 4:00:20	Peak Integrated by Software
HSTDCCC750	PS028442.D	4-Nitrophenol #2	Abdul	11/12/2024 3:50:02 PM	Ankita	11/12/2024 4:00:20	Peak Integrated by Software
HSTDCCC750	PS028442.D	DCPA	Abdul	11/12/2024 3:50:02 PM	Ankita	11/12/2024 4:00:20	Peak Integrated by Software
HSTDCCC750	PS028448.D	2,4-D #2	Abdul	11/12/2024 3:50:20 PM	Ankita	11/12/2024 4:00:24	Peak Integrated by Software
HSTDCCC750	PS028448.D	4-Nitrophenol #2	Abdul	11/12/2024 3:50:20 PM	Ankita	11/12/2024 4:00:24	Peak Integrated by Software

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Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QCBatch ID # PS110524

Review By	Abdul	Review On	11/6/2024 10:27:27 AM		
Supervise By	Ankita	Supervise On	11/6/2024 1:07:27 PM		
SubDirectory	PS110524	HP Acquire Method		HP Processing Method	ps110524 8151

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	P23457,PP23458,PP23459,PP23460,PP23461,PP23462,PP23467,PP23468,PP23469
CCC	PP23462
Internal Standard/PEM	
ICV/I.BLK	PP23469
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	HEXANE	PS028216.D	05 Nov 2024 16:59	AR\AJ	Ok
2	I.BLK	PS028217.D	05 Nov 2024 17:23	AR\AJ	Ok
3	HSTDICC200	PS028218.D	05 Nov 2024 17:47	AR\AJ	Ok,M
4	HSTDICC500	PS028219.D	05 Nov 2024 18:11	AR\AJ	Ok,M
5	HSTDICC750	PS028220.D	05 Nov 2024 18:36	AR\AJ	Ok
6	HSTDICC1000	PS028221.D	05 Nov 2024 18:59	AR\AJ	Ok,M
7	HSTDICC1500	PS028222.D	05 Nov 2024 19:23	AR\AJ	Ok
8	HSTDICV750	PS028223.D	05 Nov 2024 19:48	AR\AJ	Ok
9	I.BLK	PS028224.D	05 Nov 2024 20:12	AR\AJ	Ok
10	HSTDCCC750	PS028225.D	05 Nov 2024 20:36	AR\AJ	Ok
11	P4663-02	PS028226.D	05 Nov 2024 21:00	AR\AJ	Ok,M
12	P4663-04	PS028227.D	05 Nov 2024 21:24	AR\AJ	Ok,M
13	P4663-06	PS028228.D	05 Nov 2024 21:48	AR\AJ	Ok,M
14	P4663-08	PS028229.D	05 Nov 2024 22:12	AR\AJ	Ok,M
15	PB164641BL	PS028230.D	05 Nov 2024 22:36	AR\AJ	Ok,M
16	PB164641BS	PS028231.D	05 Nov 2024 23:00	AR\AJ	Ok,M
17	P4640-01	PS028232.D	05 Nov 2024 23:24	AR\AJ	Ok,M
18	P4643-01	PS028233.D	05 Nov 2024 23:48	AR\AJ	Ok,M
19	P4643-05	PS028234.D	06 Nov 2024 00:12	AR\AJ	Ok,M
20	P4643-09	PS028235.D	06 Nov 2024 00:36	AR\AJ	ReRun
21	I.BLK	PS028236.D	06 Nov 2024 01:00	AR\AJ	Ok,M

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Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QCBatch ID # PS110524

Review By	Abdul	Review On	11/6/2024 10:27:27 AM		
Supervise By	Ankita	Supervise On	11/6/2024 1:07:27 PM		
SubDirectory	PS110524	HP Acquire Method		HP Processing Method	ps110524 8151

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	P23457,PP23458,PP23459,PP23460,PP23461,PP23462,PP23467,PP23468,PP23469
CCC	PP23462
Internal Standard/PEM	
ICV/I.BLK	PP23469
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	HSTDCCC750	PS028237.D	06 Nov 2024 01:24	AR\AJ	Ok
23	P4645-01	PS028238.D	06 Nov 2024 01:48	AR\AJ	Ok,M
24	P4659-01	PS028239.D	06 Nov 2024 02:12	AR\AJ	Ok,M
25	P4602-43	PS028240.D	06 Nov 2024 04:36	AR\AJ	Not Ok
26	P4602-44MS	PS028241.D	06 Nov 2024 05:00	AR\AJ	Not Ok
27	P4602-45MSD	PS028242.D	06 Nov 2024 05:24	AR\AJ	Not Ok
28	PB164519BL	PS028243.D	06 Nov 2024 05:48	AR\AJ	Not Ok
29	PB164519BS	PS028244.D	06 Nov 2024 06:12	AR\AJ	Not Ok
30	PB164393TB	PS028245.D	06 Nov 2024 06:36	AR\AJ	Not Ok
31	P4578-06	PS028246.D	06 Nov 2024 07:00	AR\AJ	Not Ok
32	I.BLK	PS028247.D	06 Nov 2024 07:24	AR\AJ	Ok
33	HSTDCCC750	PS028248.D	06 Nov 2024 07:48	AR\AJ	Ok

M : Manual Integration

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Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QCBatch ID # PS110924

Review By	Abdul	Review On	11/11/2024 5:07:36 PM		
Supervise By	Ankita	Supervise On	11/12/2024 8:59:40 AM		
SubDirectory	PS110924	HP Acquire Method		HP Processing Method	ps110924 8151

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	P23457,PP23458,PP23459,PP23460,PP23461,PP23462,PP23467,PP23468,PP23469
CCC	PP23462
Internal Standard/PEM	
ICV/I.BLK	PP23469
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	HEXANE	PS028354.D	08 Nov 2024 14:00	AR\AJ	Ok
2	I.BLK	PS028355.D	08 Nov 2024 14:25	AR\AJ	Ok
3	HSTDICC200	PS028356.D	08 Nov 2024 15:13	AR\AJ	Ok
4	HSTDICC500	PS028357.D	08 Nov 2024 15:46	AR\AJ	Ok,M
5	HSTDICC750	PS028358.D	08 Nov 2024 16:10	AR\AJ	Ok
6	HSTDICC1000	PS028359.D	08 Nov 2024 16:34	AR\AJ	Ok
7	HSTDICC1500	PS028360.D	08 Nov 2024 16:58	AR\AJ	Ok
8	HSTDICV750	PS028361.D	08 Nov 2024 17:22	AR\AJ	Ok
9	I.BLK	PS028362.D	08 Nov 2024 17:46	AR\AJ	Ok,M
10	HSTDCCC750	PS028363.D	08 Nov 2024 18:10	AR\AJ	Ok
11	P4700-01	PS028364.D	08 Nov 2024 18:34	AR\AJ	Ok,M
12	P4701-01	PS028365.D	08 Nov 2024 18:58	AR\AJ	Ok,M
13	P4701-05	PS028366.D	08 Nov 2024 19:22	AR\AJ	Ok
14	PB164754BL	PS028367.D	08 Nov 2024 19:46	AR\AJ	Ok
15	PB164754BS	PS028368.D	08 Nov 2024 20:10	AR\AJ	Ok,M
16	P4722-03	PS028369.D	08 Nov 2024 20:34	AR\AJ	Not Ok
17	P4722-08	PS028370.D	08 Nov 2024 20:58	AR\AJ	Ok,M
18	P4722-13	PS028371.D	08 Nov 2024 21:22	AR\AJ	Not Ok
19	P4739-01	PS028372.D	08 Nov 2024 21:46	AR\AJ	Ok,M
20	P4739-01MS	PS028373.D	08 Nov 2024 22:10	AR\AJ	Ok,M
21	P4739-01MSD	PS028374.D	08 Nov 2024 22:34	AR\AJ	Ok,M

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Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QCBatch ID # PS110924

Review By	Abdul	Review On	11/11/2024 5:07:36 PM		
Supervise By	Ankita	Supervise On	11/12/2024 8:59:40 AM		
SubDirectory	PS110924	HP Acquire Method		HP Processing Method	ps110924 8151

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	P23457,PP23458,PP23459,PP23460,PP23461,PP23462,PP23467,PP23468,PP23469
CCC	PP23462
Internal Standard/PEM	
ICV/I.BLK	PP23469
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	P4739-05	PS028375.D	08 Nov 2024 22:58	AR\AJ	Ok
23	P4739-09	PS028376.D	08 Nov 2024 23:22	AR\AJ	Ok,M
24	P4739-13	PS028377.D	08 Nov 2024 23:46	AR\AJ	Ok,M
25	I.BLK	PS028378.D	09 Nov 2024 00:10	AR\AJ	Ok
26	HSTDCCC750	PS028379.D	09 Nov 2024 00:34	AR\AJ	Ok
27	P4601-24RE	PS028380.D	09 Nov 2024 00:58	AR\AJ	Not Ok
28	P4601-25RE	PS028381.D	09 Nov 2024 01:22	AR\AJ	Not Ok
29	P4601-26RE	PS028382.D	09 Nov 2024 01:46	AR\AJ	Not Ok
30	P4602-43	PS028383.D	09 Nov 2024 02:10	AR\AJ	Not Ok
31	P4602-44MS	PS028384.D	09 Nov 2024 02:34	AR\AJ	Not Ok
32	P4602-45MSD	PS028385.D	09 Nov 2024 02:58	AR\AJ	Not Ok
33	P4602-40	PS028386.D	09 Nov 2024 03:22	AR\AJ	Not Ok
34	P4602-41MS	PS028387.D	09 Nov 2024 03:46	AR\AJ	Not Ok
35	P4602-42MSD	PS028388.D	09 Nov 2024 04:10	AR\AJ	Not Ok
36	PB164393TB	PS028389.D	09 Nov 2024 04:34	AR\AJ	Not Ok
37	I.BLK	PS028390.D	09 Nov 2024 04:58	AR\AJ	Not Ok
38	HSTDCCC750	PS028391.D	09 Nov 2024 05:22	AR\AJ	Not Ok

M : Manual Integration

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Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QCBatch ID # PS111124

Review By	yogesh	Review On	11/12/2024 5:16:17 AM		
Supervise By	Ankita	Supervise On	11/12/2024 9:00:51 AM		
SubDirectory	PS111124	HP Acquire Method		HP Processing Method	ps110924 8151

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	P23457,PP23458,PP23459,PP23460,PP23461,PP23462,PP23467,PP23468,PP23469
CCC	PP23462
Internal Standard/PEM	
ICV/I.BLK	PP23469
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	HEXANE	PS028392.D	11 Nov 2024 10:00	AR\AJ	Ok
2	I.BLK	PS028393.D	11 Nov 2024 10:24	AR\AJ	Ok
3	HSTDCCC750	PS028394.D	11 Nov 2024 10:48	AR\AJ	Ok,M
4	P4601-29	PS028395.D	11 Nov 2024 12:05	AR\AJ	Ok
5	P4601-30	PS028396.D	11 Nov 2024 12:29	AR\AJ	Ok
6	P4601-31	PS028397.D	11 Nov 2024 12:56	AR\AJ	Ok
7	P4601-32	PS028398.D	11 Nov 2024 13:20	AR\AJ	Ok
8	P4601-33	PS028399.D	11 Nov 2024 13:44	AR\AJ	Ok,M
9	P4601-34	PS028400.D	11 Nov 2024 14:08	AR\AJ	Ok,M
10	P4601-35	PS028401.D	11 Nov 2024 14:32	AR\AJ	Ok,M
11	P4601-36	PS028402.D	11 Nov 2024 14:57	AR\AJ	Ok,M
12	P4601-37MS	PS028403.D	11 Nov 2024 15:21	AR\AJ	Ok,M
13	P4601-38MSD	PS028404.D	11 Nov 2024 15:45	AR\AJ	Ok,M
14	I.BLK	PS028405.D	11 Nov 2024 16:09	AR\AJ	Ok
15	HSTDCCC750	PS028406.D	11 Nov 2024 16:33	AR\AJ	Ok,M
16	P4602-43	PS028407.D	11 Nov 2024 16:57	AR\AJ	Ok
17	P4602-44MS	PS028408.D	11 Nov 2024 17:21	AR\AJ	Ok,M
18	P4602-45MSD	PS028409.D	11 Nov 2024 17:45	AR\AJ	Ok,M
19	P4602-40	PS028410.D	11 Nov 2024 18:10	AR\AJ	Ok
20	P4602-41MS	PS028411.D	11 Nov 2024 18:34	AR\AJ	Ok,M
21	P4602-42MSD	PS028412.D	11 Nov 2024 18:58	AR\AJ	Ok,M

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Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QCBatch ID # PS111124

Review By	yogesh	Review On	11/12/2024 5:16:17 AM		
Supervise By	Ankita	Supervise On	11/12/2024 9:00:51 AM		
SubDirectory	PS111124	HP Acquire Method		HP Processing Method	ps110924 8151

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	P23457,PP23458,PP23459,PP23460,PP23461,PP23462,PP23467,PP23468,PP23469
CCC	PP23462
Internal Standard/PEM	
ICV/I.BLK	PP23469
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	PB164393TB	PS028413.D	11 Nov 2024 19:22	AR\AJ	Ok
23	PB164725BL	PS028414.D	11 Nov 2024 19:46	AR\AJ	Ok
24	PB164725BS	PS028415.D	11 Nov 2024 20:10	AR\AJ	Ok,M
25	P4602-19	PS028416.D	11 Nov 2024 20:34	AR\AJ	Ok,M
26	I.BLK	PS028417.D	11 Nov 2024 20:58	AR\AJ	Ok
27	HSTDCCC750	PS028418.D	11 Nov 2024 21:22	AR\AJ	Ok,M
28	P4602-21	PS028419.D	11 Nov 2024 21:46	AR\AJ	Ok,M
29	P4602-22	PS028420.D	11 Nov 2024 22:10	AR\AJ	Ok,M
30	P4602-23	PS028421.D	11 Nov 2024 22:34	AR\AJ	Ok
31	P4602-24	PS028422.D	11 Nov 2024 22:58	AR\AJ	Ok,M
32	P4602-25	PS028423.D	11 Nov 2024 23:22	AR\AJ	Ok,M
33	P4602-26	PS028424.D	11 Nov 2024 23:46	AR\AJ	Ok,M
34	P4602-27	PS028425.D	12 Nov 2024 00:10	AR\AJ	Ok,M
35	P4602-28	PS028426.D	12 Nov 2024 00:34	AR\AJ	Not Ok
36	P4602-29	PS028427.D	12 Nov 2024 00:58	AR\AJ	Ok,M
37	P4602-30	PS028428.D	12 Nov 2024 01:23	AR\AJ	Ok,M
38	I.BLK	PS028429.D	12 Nov 2024 01:47	AR\AJ	Ok
39	HSTDCCC750	PS028430.D	12 Nov 2024 02:11	AR\AJ	Ok
40	P4602-33	PS028431.D	12 Nov 2024 02:35	AR\AJ	Ok,M
41	P4602-34	PS028432.D	12 Nov 2024 02:59	AR\AJ	Ok,M
42	P4602-31	PS028433.D	12 Nov 2024 03:23	AR\AJ	Ok,M
43	P4602-32	PS028434.D	12 Nov 2024 03:47	AR\AJ	Ok,M
44	P4602-37	PS028435.D	12 Nov 2024 04:11	AR\AJ	Ok,M

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Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QCBatch ID # PS111124

Review By	yogesh	Review On	11/12/2024 5:16:17 AM		
Supervise By	Ankita	Supervise On	11/12/2024 9:00:51 AM		
SubDirectory	PS111124	HP Acquire Method		HP Processing Method	ps110924 8151

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	P23457,PP23458,PP23459,PP23460,PP23461,PP23462,PP23467,PP23468,PP23469
CCC	PP23462
Internal Standard/PEM	
ICV/I.BLK	PP23469
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

45	P4602-38MS	PS028436.D	12 Nov 2024 04:35	AR\AJ	Ok,M
46	P4602-39MSD	PS028437.D	12 Nov 2024 04:59	AR\AJ	Ok,M
47	P4722-03	PS028438.D	12 Nov 2024 05:23	AR\AJ	Ok
48	P4722-13	PS028439.D	12 Nov 2024 05:47	AR\AJ	Ok
49	P4738-02	PS028440.D	12 Nov 2024 06:11	AR\AJ	Ok
50	I.BLK	PS028441.D	12 Nov 2024 06:35	AR\AJ	Ok
51	HSTDCCC750	PS028442.D	12 Nov 2024 06:59	AR\AJ	Ok,M
52	P4789-01	PS028443.D	12 Nov 2024 07:23	AR\AJ	Ok
53	P4792-03	PS028444.D	12 Nov 2024 07:47	AR\AJ	Ok
54	P4738-02	PS028445.D	12 Nov 2024 08:11	AR\AJ	Ok
55	P4602-28	PS028446.D	12 Nov 2024 09:04	AR\AJ	Ok,M
56	I.BLK	PS028447.D	12 Nov 2024 09:28	AR\AJ	Ok
57	HSTDCCC750	PS028448.D	12 Nov 2024 09:52	AR\AJ	Ok,M

M : Manual Integration

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Fax : 908 789 8922

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QCBatch ID # PS110524

Review By	Abdul	Review On	11/6/2024 10:27:27 AM		
Supervise By	Ankita	Supervise On	11/6/2024 1:07:27 PM		
SubDirectory	PS110524	HP Acquire Method		HP Processing Method	ps110524 8151

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	P23457,PP23458,PP23459,PP23460,PP23461,PP23462,PP23467,PP23468,PP23469
CCC	PP23462
Internal Standard/PEM	
ICV/I.BLK	PP23469
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	HEXANE	HEXANE	PS028216.D	05 Nov 2024 16:59		AR\AJ	Ok
2	I.BLK	I.BLK	PS028217.D	05 Nov 2024 17:23		AR\AJ	Ok
3	HSTDICC200	HSTDICC200	PS028218.D	05 Nov 2024 17:47		AR\AJ	Ok,M
4	HSTDICC500	HSTDICC500	PS028219.D	05 Nov 2024 18:11		AR\AJ	Ok,M
5	HSTDICC750	HSTDICC750	PS028220.D	05 Nov 2024 18:36		AR\AJ	Ok
6	HSTDICC1000	HSTDICC1000	PS028221.D	05 Nov 2024 18:59		AR\AJ	Ok,M
7	HSTDICC1500	HSTDICC1500	PS028222.D	05 Nov 2024 19:23		AR\AJ	Ok
8	HSTDICV750	ICVPS110524	PS028223.D	05 Nov 2024 19:48		AR\AJ	Ok
9	I.BLK	I.BLK	PS028224.D	05 Nov 2024 20:12		AR\AJ	Ok
10	HSTDCCC750	HSTDCCC750	PS028225.D	05 Nov 2024 20:36		AR\AJ	Ok
11	P4663-02	TENNANT-PAD-2-3-ST	PS028226.D	05 Nov 2024 21:00		AR\AJ	Ok,M
12	P4663-04	RES-BUILDING-PAD-N	PS028227.D	05 Nov 2024 21:24		AR\AJ	Ok,M
13	P4663-06	RES-BUILDING-PAD-N	PS028228.D	05 Nov 2024 21:48		AR\AJ	Ok,M
14	P4663-08	RES-BUILDING-PAD-N	PS028229.D	05 Nov 2024 22:12		AR\AJ	Ok,M
15	PB164641BL	PB164641BL	PS028230.D	05 Nov 2024 22:36		AR\AJ	Ok,M
16	PB164641BS	PB164641BS	PS028231.D	05 Nov 2024 23:00		AR\AJ	Ok,M
17	P4640-01	MH-3	PS028232.D	05 Nov 2024 23:24		AR\AJ	Ok,M
18	P4643-01	BP-F9-ADDITIONAL	PS028233.D	05 Nov 2024 23:48		AR\AJ	Ok,M

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Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QCBatch ID # PS110524

Review By	Abdul	Review On	11/6/2024 10:27:27 AM		
Supervise By	Ankita	Supervise On	11/6/2024 1:07:27 PM		
SubDirectory	PS110524	HP Acquire Method		HP Processing Method	ps110524 8151

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	P23457,PP23458,PP23459,PP23460,PP23461,PP23462,PP23467,PP23468,PP23469
CCC	PP23462
Internal Standard/PEM	
ICV/I.BLK	PP23469
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	P4643-05	BP-F8	PS028234.D	06 Nov 2024 00:12		AR\AJ	Ok,M
20	P4643-09	TP-9	PS028235.D	06 Nov 2024 00:36	Surrogate Fail	AR\AJ	ReRun
21	I.BLK	I.BLK	PS028236.D	06 Nov 2024 01:00		AR\AJ	Ok,M
22	HSTDCCC750	HSTDCCC750	PS028237.D	06 Nov 2024 01:24	CCC failling in higher side	AR\AJ	Ok
23	P4645-01	Z-02-WC	PS028238.D	06 Nov 2024 01:48		AR\AJ	Ok,M
24	P4659-01	MH-2	PS028239.D	06 Nov 2024 02:12		AR\AJ	Ok,M
25	P4602-43	CC0R8	PS028240.D	06 Nov 2024 04:36		AR\AJ	Not Ok
26	P4602-44MS	CC0R8MS	PS028241.D	06 Nov 2024 05:00	Some compound recovery fail	AR\AJ	Not Ok
27	P4602-45MSD	CC0R8MSD	PS028242.D	06 Nov 2024 05:24	Some compound recovery fail	AR\AJ	Not Ok
28	PB164519BL	PB164519BL	PS028243.D	06 Nov 2024 05:48		AR\AJ	Not Ok
29	PB164519BS	PB164519BS	PS028244.D	06 Nov 2024 06:12	Some compound recovery fail	AR\AJ	Not Ok
30	PB164393TB	PB164393TB	PS028245.D	06 Nov 2024 06:36	Surrogate Fail	AR\AJ	Not Ok
31	P4578-06	WB-305-BOT	PS028246.D	06 Nov 2024 07:00		AR\AJ	Not Ok
32	I.BLK	I.BLK	PS028247.D	06 Nov 2024 07:24		AR\AJ	Ok
33	HSTDCCC750	HSTDCCC750	PS028248.D	06 Nov 2024 07:48	CCC failling in higher side	AR\AJ	Ok

M : Manual Integration

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Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QCBatch ID # PS110924

Review By	Abdul	Review On	11/11/2024 5:07:36 PM		
Supervise By	Ankita	Supervise On	11/12/2024 8:59:40 AM		
SubDirectory	PS110924	HP Acquire Method		HP Processing Method	ps110924 8151

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	P23457,PP23458,PP23459,PP23460,PP23461,PP23462,PP23467,PP23468,PP23469
CCC	PP23462
Internal Standard/PEM	
ICV/I.BLK	PP23469
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	HEXANE	HEXANE	PS028354.D	08 Nov 2024 14:00		AR\AJ	Ok
2	I.BLK	I.BLK	PS028355.D	08 Nov 2024 14:25		AR\AJ	Ok
3	HSTDICC200	HSTDICC200	PS028356.D	08 Nov 2024 15:13		AR\AJ	Ok
4	HSTDICC500	HSTDICC500	PS028357.D	08 Nov 2024 15:46		AR\AJ	Ok,M
5	HSTDICC750	HSTDICC750	PS028358.D	08 Nov 2024 16:10		AR\AJ	Ok
6	HSTDICC1000	HSTDICC1000	PS028359.D	08 Nov 2024 16:34		AR\AJ	Ok
7	HSTDICC1500	HSTDICC1500	PS028360.D	08 Nov 2024 16:58		AR\AJ	Ok
8	HSTDICV750	ICVPS110924	PS028361.D	08 Nov 2024 17:22		AR\AJ	Ok
9	I.BLK	I.BLK	PS028362.D	08 Nov 2024 17:46		AR\AJ	Ok,M
10	HSTDCCC750	HSTDCCC750	PS028363.D	08 Nov 2024 18:10		AR\AJ	Ok
11	P4700-01	MH-8	PS028364.D	08 Nov 2024 18:34		AR\AJ	Ok,M
12	P4701-01	BP-F3	PS028365.D	08 Nov 2024 18:58		AR\AJ	Ok,M
13	P4701-05	BP-F4	PS028366.D	08 Nov 2024 19:22		AR\AJ	Ok
14	PB164754BL	PB164754BL	PS028367.D	08 Nov 2024 19:46		AR\AJ	Ok
15	PB164754BS	PB164754BS	PS028368.D	08 Nov 2024 20:10		AR\AJ	Ok,M
16	P4722-03	WC-1(0-6)	PS028369.D	08 Nov 2024 20:34	2,4-DCAA low in both column	AR\AJ	Not Ok
17	P4722-08	WC-2(0-6)	PS028370.D	08 Nov 2024 20:58		AR\AJ	Ok,M
18	P4722-13	WC-3(0-6)	PS028371.D	08 Nov 2024 21:22	2,4-DCAA Low in both column	AR\AJ	Not Ok

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Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QCBatch ID # PS110924

Review By	Abdul	Review On	11/11/2024 5:07:36 PM		
Supervise By	Ankita	Supervise On	11/12/2024 8:59:40 AM		
SubDirectory	PS110924	HP Acquire Method		HP Processing Method	ps110924 8151

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	P23457,PP23458,PP23459,PP23460,PP23461,PP23462,PP23467,PP23468,PP23469
CCC	PP23462
Internal Standard/PEM	
ICV/I.BLK	PP23469
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	P4739-01	TP-14	PS028372.D	08 Nov 2024 21:46		AR\AJ	Ok,M
20	P4739-01MS	TP-14MS	PS028373.D	08 Nov 2024 22:10	Some compound recovery fail	AR\AJ	Ok,M
21	P4739-01MSD	TP-14MSD	PS028374.D	08 Nov 2024 22:34	Some compound recovery fail	AR\AJ	Ok,M
22	P4739-05	BP-G2	PS028375.D	08 Nov 2024 22:58		AR\AJ	Ok
23	P4739-09	BP-B2	PS028376.D	08 Nov 2024 23:22		AR\AJ	Ok,M
24	P4739-13	TP-11	PS028377.D	08 Nov 2024 23:46		AR\AJ	Ok,M
25	I.BLK	I.BLK	PS028378.D	09 Nov 2024 00:10		AR\AJ	Ok
26	HSTDCCC750	HSTDCCC750	PS028379.D	09 Nov 2024 00:34		AR\AJ	Ok
27	P4601-24RE	CC0P1RE	PS028380.D	09 Nov 2024 00:58	Closing CCC fail,	AR\AJ	Not Ok
28	P4601-25RE	CC0P3RE	PS028381.D	09 Nov 2024 01:22	Closing CCC fail,	AR\AJ	Not Ok
29	P4601-26RE	CC0P5RE	PS028382.D	09 Nov 2024 01:46	Closing CCC fail,	AR\AJ	Not Ok
30	P4602-43	CC0R8	PS028383.D	09 Nov 2024 02:10	, Closing CCC fail	AR\AJ	Not Ok
31	P4602-44MS	CC0R8MS	PS028384.D	09 Nov 2024 02:34	Some compound recovery fail, Closing CCC fail	AR\AJ	Not Ok
32	P4602-45MSD	CC0R8MSD	PS028385.D	09 Nov 2024 02:58	Some compound recovery fail, Closing CCC fail	AR\AJ	Not Ok
33	P4602-40	CC0R6	PS028386.D	09 Nov 2024 03:22	Closing CCC fail	AR\AJ	Not Ok
34	P4602-41MS	CC0R6MS	PS028387.D	09 Nov 2024 03:46	Some compound recovery fail, Closing CCC fail	AR\AJ	Not Ok
35	P4602-42MSD	CC0R6MSD	PS028388.D	09 Nov 2024 04:10	Some compound recovery fail, RPD fail, Closing CCC fail	AR\AJ	Not Ok
36	PB164393TB	PB164393TB	PS028389.D	09 Nov 2024 04:34	Closing CCC fail	AR\AJ	Not Ok

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Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QCBatch ID # PS110924

Review By	Abdul	Review On	11/11/2024 5:07:36 PM		
Supervise By	Ankita	Supervise On	11/12/2024 8:59:40 AM		
SubDirectory	PS110924	HP Acquire Method		HP Processing Method	ps110924 8151

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	P23457,PP23458,PP23459,PP23460,PP23461,PP23462,PP23467,PP23468,PP23469
CCC	PP23462
Internal Standard/PEM	
ICV/I.BLK	PP23469
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

37	I.BLK	I.BLK	PS028390.D	09 Nov 2024 04:58	Closing CCC fail	AR\AJ	Not Ok
38	HSTDCCC750	HSTDCCC750	PS028391.D	09 Nov 2024 05:22	CCC fail	AR\AJ	Not Ok

M : Manual Integration

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Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QCBatch ID # PS111124

Review By	yogesh	Review On	11/12/2024 5:16:17 AM		
Supervise By	Ankita	Supervise On	11/12/2024 9:00:51 AM		
SubDirectory	PS111124	HP Acquire Method		HP Processing Method	ps110924 8151

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	P23457,PP23458,PP23459,PP23460,PP23461,PP23462,PP23467,PP23468,PP23469
CCC	PP23462
Internal Standard/PEM	
ICV/I.BLK	PP23469
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	HEXANE	HEXANE	PS028392.D	11 Nov 2024 10:00		AR\AJ	Ok
2	I.BLK	I.BLK	PS028393.D	11 Nov 2024 10:24		AR\AJ	Ok
3	HSTDCCC750	HSTDCCC750	PS028394.D	11 Nov 2024 10:48		AR\AJ	Ok,M
4	P4601-29	CC0Q1	PS028395.D	11 Nov 2024 12:05		AR\AJ	Ok
5	P4601-30	CC0Q6	PS028396.D	11 Nov 2024 12:29		AR\AJ	Ok
6	P4601-31	CC0Q8	PS028397.D	11 Nov 2024 12:56		AR\AJ	Ok
7	P4601-32	CC0R3	PS028398.D	11 Nov 2024 13:20		AR\AJ	Ok
8	P4601-33	CC0R4	PS028399.D	11 Nov 2024 13:44		AR\AJ	Ok,M
9	P4601-34	CC0R5	PS028400.D	11 Nov 2024 14:08		AR\AJ	Ok,M
10	P4601-35	CC0R6	PS028401.D	11 Nov 2024 14:32		AR\AJ	Ok,M
11	P4601-36	CC0R7	PS028402.D	11 Nov 2024 14:57		AR\AJ	Ok,M
12	P4601-37MS	CC0R7MS	PS028403.D	11 Nov 2024 15:21	some comp. recovery fail	AR\AJ	Ok,M
13	P4601-38MSD	CC0R7MSD	PS028404.D	11 Nov 2024 15:45	some comp. recovery fail	AR\AJ	Ok,M
14	I.BLK	I.BLK	PS028405.D	11 Nov 2024 16:09		AR\AJ	Ok
15	HSTDCCC750	HSTDCCC750	PS028406.D	11 Nov 2024 16:33		AR\AJ	Ok,M
16	P4602-43	CC0R8	PS028407.D	11 Nov 2024 16:57		AR\AJ	Ok
17	P4602-44MS	CC0R8MS	PS028408.D	11 Nov 2024 17:21		AR\AJ	Ok,M
18	P4602-45MSD	CC0R8MSD	PS028409.D	11 Nov 2024 17:45		AR\AJ	Ok,M

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Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QCBatch ID # PS111124

Review By	yogesh	Review On	11/12/2024 5:16:17 AM		
Supervise By	Ankita	Supervise On	11/12/2024 9:00:51 AM		
SubDirectory	PS111124	HP Acquire Method		HP Processing Method	ps110924 8151

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	P23457,PP23458,PP23459,PP23460,PP23461,PP23462,PP23467,PP23468,PP23469
CCC	PP23462
Internal Standard/PEM	
ICV/I.BLK	PP23469
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	P4602-40	CC0R6	PS028410.D	11 Nov 2024 18:10		AR\AJ	Ok
20	P4602-41MS	CC0R6MS	PS028411.D	11 Nov 2024 18:34		AR\AJ	Ok,M
21	P4602-42MSD	CC0R6MSD	PS028412.D	11 Nov 2024 18:58		AR\AJ	Ok,M
22	PB164393TB	PB164393TB	PS028413.D	11 Nov 2024 19:22		AR\AJ	Ok
23	PB164725BL	PB164725BL	PS028414.D	11 Nov 2024 19:46		AR\AJ	Ok
24	PB164725BS	PB164725BS	PS028415.D	11 Nov 2024 20:10		AR\AJ	Ok,M
25	P4602-19	C0P17	PS028416.D	11 Nov 2024 20:34		AR\AJ	Ok,M
26	I.BLK	I.BLK	PS028417.D	11 Nov 2024 20:58		AR\AJ	Ok
27	HSTDCCC750	HSTDCCC750	PS028418.D	11 Nov 2024 21:22		AR\AJ	Ok,M
28	P4602-21	CC0P2	PS028419.D	11 Nov 2024 21:46		AR\AJ	Ok,M
29	P4602-22	CC0P4	PS028420.D	11 Nov 2024 22:10		AR\AJ	Ok,M
30	P4602-23	CC0P6	PS028421.D	11 Nov 2024 22:34		AR\AJ	Ok
31	P4602-24	CC0P8	PS028422.D	11 Nov 2024 22:58		AR\AJ	Ok,M
32	P4602-25	CC0Q0	PS028423.D	11 Nov 2024 23:22		AR\AJ	Ok,M
33	P4602-26	CC0Q2	PS028424.D	11 Nov 2024 23:46		AR\AJ	Ok,M
34	P4602-27	CC0Q3	PS028425.D	12 Nov 2024 00:10		AR\AJ	Ok,M
35	P4602-28	CC0Q4	PS028426.D	12 Nov 2024 00:34	injection error	AR\AJ	Not Ok
36	P4602-29	CC0Q5	PS028427.D	12 Nov 2024 00:58		AR\AJ	Ok,M
37	P4602-30	CC0Q7	PS028428.D	12 Nov 2024 01:23		AR\AJ	Ok,M

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Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QCBatch ID # PS111124

Review By	yogesh	Review On	11/12/2024 5:16:17 AM		
Supervise By	Ankita	Supervise On	11/12/2024 9:00:51 AM		
SubDirectory	PS111124	HP Acquire Method		HP Processing Method	ps110924 8151

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	P23457,PP23458,PP23459,PP23460,PP23461,PP23462,PP23467,PP23468,PP23469
CCC	PP23462
Internal Standard/PEM	
ICV/I.BLK	PP23469
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

38	I.BLK	I.BLK	PS028429.D	12 Nov 2024 01:47		AR\AJ	Ok
39	HSTDCCC750	HSTDCCC750	PS028430.D	12 Nov 2024 02:11		AR\AJ	Ok
40	P4602-33	CC0R1	PS028431.D	12 Nov 2024 02:35		AR\AJ	Ok,M
41	P4602-34	CC0R2	PS028432.D	12 Nov 2024 02:59		AR\AJ	Ok,M
42	P4602-31	CC0Q9	PS028433.D	12 Nov 2024 03:23		AR\AJ	Ok,M
43	P4602-32	CC0R0	PS028434.D	12 Nov 2024 03:47		AR\AJ	Ok,M
44	P4602-37	CC0P0	PS028435.D	12 Nov 2024 04:11		AR\AJ	Ok,M
45	P4602-38MS	CC0P0MS	PS028436.D	12 Nov 2024 04:35	Some compound recovery fail	AR\AJ	Ok,M
46	P4602-39MSD	CC0P0MSD	PS028437.D	12 Nov 2024 04:59	Some compound recovery fail	AR\AJ	Ok,M
47	P4722-03	WC-1(0-6)	PS028438.D	12 Nov 2024 05:23		AR\AJ	Ok
48	P4722-13	WC-3(0-6)	PS028439.D	12 Nov 2024 05:47		AR\AJ	Ok
49	P4738-02	72-12018	PS028440.D	12 Nov 2024 06:11		AR\AJ	Ok
50	I.BLK	I.BLK	PS028441.D	12 Nov 2024 06:35		AR\AJ	Ok
51	HSTDCCC750	HSTDCCC750	PS028442.D	12 Nov 2024 06:59		AR\AJ	Ok,M
52	P4789-01	BP-F21	PS028443.D	12 Nov 2024 07:23		AR\AJ	Ok
53	P4792-03	OILY-STONE-DRUM	PS028444.D	12 Nov 2024 07:47		AR\AJ	Ok
54	P4738-02	72-12018	PS028445.D	12 Nov 2024 08:11		AR\AJ	Ok
55	P4602-28	CC0Q4	PS028446.D	12 Nov 2024 09:04		AR\AJ	Ok,M
56	I.BLK	I.BLK	PS028447.D	12 Nov 2024 09:28		AR\AJ	Ok

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Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QCBatch ID # PS111124

Review By	yogesh	Review On	11/12/2024 5:16:17 AM		
Supervise By	Ankita	Supervise On	11/12/2024 9:00:51 AM		
SubDirectory	PS111124	HP Acquire Method		HP Processing Method	ps110924 8151

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	P23457,PP23458,PP23459,PP23460,PP23461,PP23462,PP23467,PP23468,PP23469
CCC	PP23462
Internal Standard/PEM	
ICV/I.BLK	PP23469
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

57	HSTDCCC750	HSTDCCC750	PS028448.D	12 Nov 2024 09:52		AR\AJ	Ok,M

M : Manual Integration

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EXTRACTION LOGPAGE

PB164641

SOP ID:	M8151A-Herbicide-22				
Clean Up SOP #:	N/A			**Extraction Start Date :**	11/04/2024
Matrix :	Solid			**Extraction Start Time :**	09:51
Weigh By:	RJ	**Extraction By:**	RJ	**Extraction End Date :**	11/04/2024
Balance check:	RJ	**Filter By:**	RJ	**Extraction End Time :**	16:25
Balance ID:	EX-SC-2	**pH Meter ID:**	N/A	**Concentration By:**	RS
pH Strip Lot#:	N/A	**Hood ID:**	3,7	**Supervisor By :**	rajesh

Extraction Method: ☐ Seperatory Funnel ☐ Continious Liquid/Liquid ☐ Sonication ☐ Waste Dilution ☑ Soxhlet

Standared Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Spike Sol 1	1.0ML	5/500 PPM	PP23699
Surrogate	1.0ML	5000 PPB	PP23907
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	EP2538
Acidified Na2SO4	N/A	EP2503
Sand	N/A	E2865
HCL	N/A	M5892
DI WATER	N/A	N/A
37% KOH	N/A	EP2520
Methylene Chloride	N/A	E3822
1:3 SULPHURIC ACID	N/A	EP2528
Ether	N/A	E3370
ISO OCTANE	N/A	E3554
METHANOL	N/A	V14150
Diazomethane	N/A	EP2529
Hexane	N/A	E3819
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 BTS721.

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
11/4/24	RP (Ext. Lab)	RR - Pest/PCB Lab
16:30	**Preparation Group**	**Analysis Group**

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PrepBatch ID : PB164641

Analytical Method: M8151A-Herbicide-22

Concentration Date: 11/04/2024

Sample ID	Client Sample ID	Test	g/ mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB164641BL	HBLK641	Herbicide	30.02	N/A	ritesh	RUPESH	10			U1-1
PB164641BS	HLCS641	Herbicide	30.03	N/A	ritesh	RUPESH	10			2
P4602-43	CC0R8	Herbicide	30.07	N/A	ritesh	RUPESH	10			3
P4602-44	P4602-43MS	Herbicide	30.02	N/A	ritesh	RUPESH	10			4
P4602-45	P4602-43MSD	Herbicide	30.04	N/A	ritesh	RUPESH	10			5
P4640-01	MH-3	Herbicide	30.06	N/A	ritesh	RUPESH	10	D		6
P4643-01	BP-F9-ADDITIONAL	Herbicide	30.01	N/A	ritesh	RUPESH	10	D		U5-1
P4643-05	BP-F8	Herbicide	30.10	N/A	ritesh	RUPESH	10	D		2
P4643-09	TP-9	Herbicide	30.05	N/A	ritesh	RUPESH	10	D		3
P4645-01	Z-02-WC	Herbicide	30.03	N/A	ritesh	RUPESH	10	D		4
P4659-01	MH-2	Herbicide	30.09	N/A	ritesh	RUPESH	10	D		5
P4663-02	TENNANT-PAD-2-3-STOC KPILE	Herbicide	30.02	N/A	ritesh	RUPESH	10	D		6
P4663-04	RES-BUILDING-PAD-NO-1 1	Herbicide	30.04	N/A	ritesh	RUPESH	10	D		U4-1
P4663-06	RES-BUILDING-PAD-NO-3	Herbicide	30.05	N/A	ritesh	RUPESH	10	D		2
P4663-08	RES-BUILDING-PAD-NO-2	Herbicide	30.07	N/A	ritesh	RUPESH	10	D		3

*** Extracts relinquished on the same date as received.**

11/4/24

WORKLIST(Hardcopy Internal Chain)

WorkList Name : p4640h **WorkList ID :** 185075 **Department :** Extraction **Date :** 11-04-2024 08:20:44

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4602-43	CC0R8	Solid	Herbicide	Cool 4 deg C	TETR16	K61	10/23/2024	8151A
P4602-44	P4602-43MS	Solid	Herbicide	Cool 4 deg C	TETR16	K61	10/23/2024	8151A
P4602-45	P4602-43MSD	Solid	Herbicide	Cool 4 deg C	TETR16	K61	10/23/2024	8151A
P4640-01	MH-3	Solid	Herbicide	Cool 4 deg C	PSEG03	K61	10/30/2024	8151A
P4643-01	BP-F9-ADDITIONAL	Solid	Herbicide	Cool 4 deg C	PSEG03	K51	10/30/2024	8151A
P4643-05	BP-F8	Solid	Herbicide	Cool 4 deg C	PSEG03	K51	10/30/2024	8151A
P4643-09	TP-9	Solid	Herbicide	Cool 4 deg C	PSEG03	K51	10/30/2024	8151A
P4645-01	Z-02-WC	Solid	Herbicide	Cool 4 deg C	PSEG03	K63	10/31/2024	8151A
P4659-01	MH-2	Solid	Herbicide	Cool 4 deg C	PSEG03	K61	10/31/2024	8151A
P4663-02	TENNANT-PAD-2-3-STOCKPIL	Solid	Herbicide	Cool 4 deg C	UNIO02	K41	10/31/2024	8151A
P4663-04	RES-BUILDING-PAD-NO-11	Solid	Herbicide	Cool 4 deg C	UNIO02	K41	10/31/2024	8151A
P4663-06	RES-BUILDING-PAD-NO-3	Solid	Herbicide	Cool 4 deg C	UNIO02	K41	10/31/2024	8151A
P4663-08	RES-BUILDING-PAD-NO-2	Solid	Herbicide	Cool 4 deg C	UNIO02	K41	10/31/2024	8151A

Date/Time 11/6/24 9:05
Raw Sample Received by: RJ (Set 1&4)
Raw Sample Relinquished by:

Date/Time 11/6/24 10:15
Raw Sample Received by:
Raw Sample Relinquished by: RJ (Set 1&4)

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

LAB CHRONICLE

OrderID:	P4663	**OrderDate:**	10/31/2024 3:05:00 PM
Client:	Union Paving & Construction Company	**Project:**	Rt. 10 Whippany
Contact:	Gregory Butler	**Location:**	K41,VOA Ref. #2 Soil

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P4663-02	**TENNANT-PAD-2-3-STOCKPILE**	**SOIL**			**10/31/24**			**10/31/24**
			Herbicide	8151A		11/04/24	11/05/24	
			PCB	8082A		11/01/24	11/01/24	
			Pesticide-TCL	8081B		11/01/24	11/01/24	
			TPH GC	8015D		11/01/24	11/01/24	
			EPH_NF	NJEPH		11/01/24	11/02/24	
P4663-04	**RES-BUILDING-PAD-NO-11**	**SOIL**			**10/31/24**			**10/31/24**
			Herbicide	8151A		11/04/24	11/05/24	
			PCB	8082A		11/01/24	11/01/24	
			Pesticide-TCL	8081B		11/01/24	11/01/24	
			TPH GC	8015D		11/01/24	11/01/24	
			EPH_NF	NJEPH		11/01/24	11/02/24	
P4663-06	**RES-BUILDING-PAD-NO-3**	**SOIL**			**10/31/24**			**10/31/24**
			Herbicide	8151A		11/04/24	11/05/24	
			PCB	8082A		11/01/24	11/01/24	
			Pesticide-TCL	8081B		11/01/24	11/01/24	
			TPH GC	8015D		11/01/24	11/01/24	
			EPH_NF	NJEPH		11/01/24	11/02/24	
			EPH_NF	NJEPH		11/01/24	11/05/24	
P4663-06DL	**RES-BUILDING-PAD-NO-3DL**	**Solid**			**10/31/24**			**10/31/24**
			EPH_NF	NJEPH		11/01/24	11/05/24	
P4663-08	**RES-BUILDING-PAD-NO-2**	**SOIL**			**10/31/24**			**10/31/24**
			Herbicide	8151A		11/04/24	11/05/24	

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

LAB CHRONICLE

PCB	8082A	11/01/24	11/01/24
Pesticide-TCL	8081B	11/01/24	11/01/24
TPH GC	8015D	11/01/24	11/01/24
EPH_NF	NJEPH	11/01/24	11/02/24

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS110424\
Data File : PS028204.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 05 Nov 2024 04:23
Operator : AR\AJ
Sample : P4663-02
Misc :
ALS Vial : 28 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
TENNANT-PAD-2-3-STOCKPILE

Manual Integrations APPROVED

Reviewed By :Abdul Mirza 11/05/2024
Supervised By :Ankita Jodhani 11/06/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 05 07:05:22 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS110424.M
Quant Title : 8080.M
QLast Update : Mon Nov 04 23:43:01 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml	
	System Monitoring Compounds							
4) S	2,4-DCAA	7.685	7.907	135.6E6	349.7E6	53.665m	208.781	#
	Target Compounds							

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

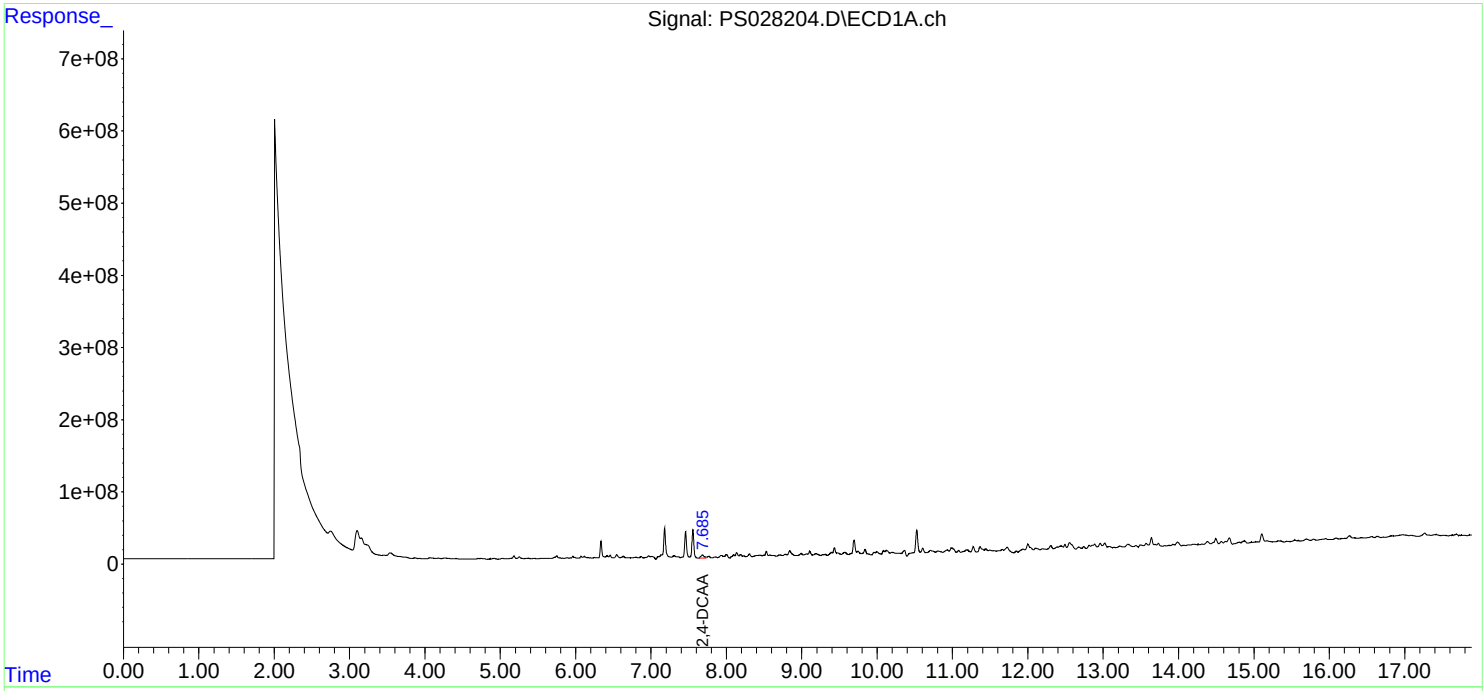
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS110424\
Data File : PS028204.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 05 Nov 2024 04:23
Operator : AR\AJ
Sample : P4663-02
Misc :
ALS Vial : 28 Sample Multiplier: 1

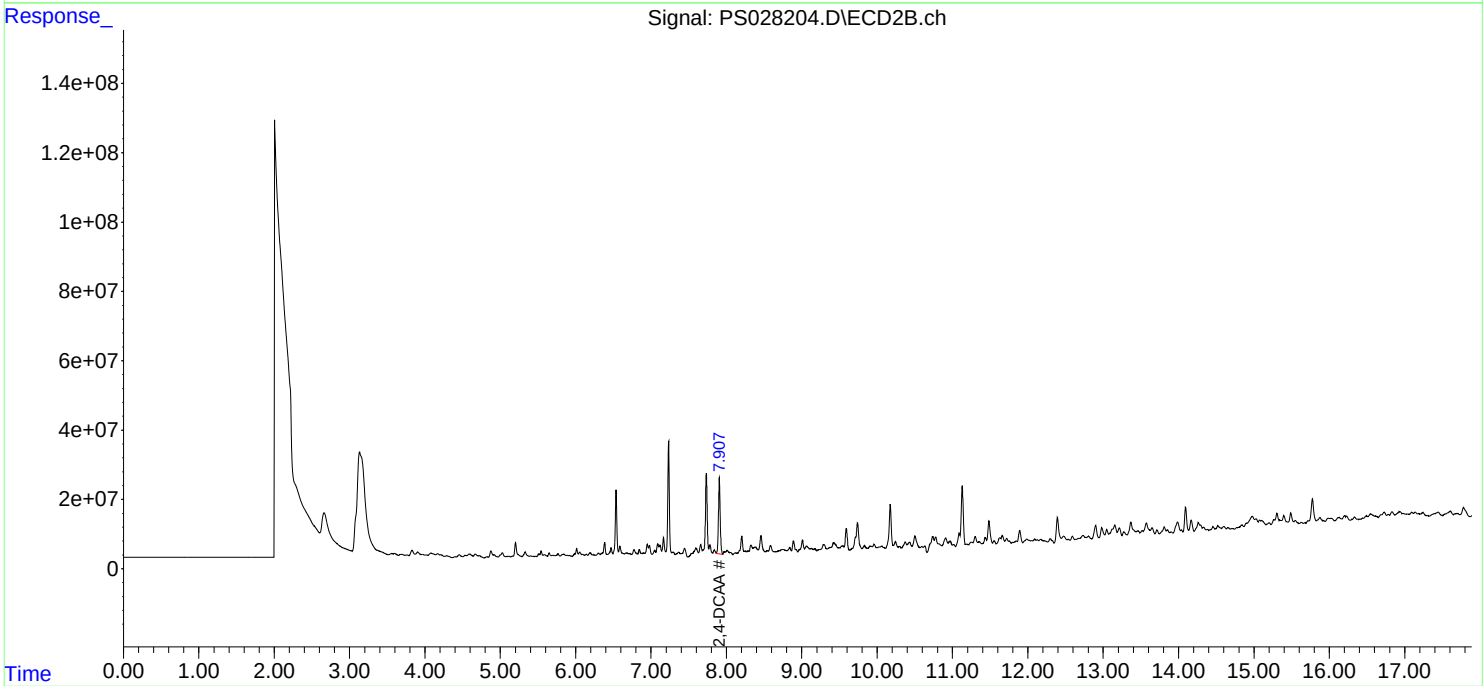
Instrument :
ECD_S
ClientSampleId :
TENNANT-PAD-2-3-STOCKPILE

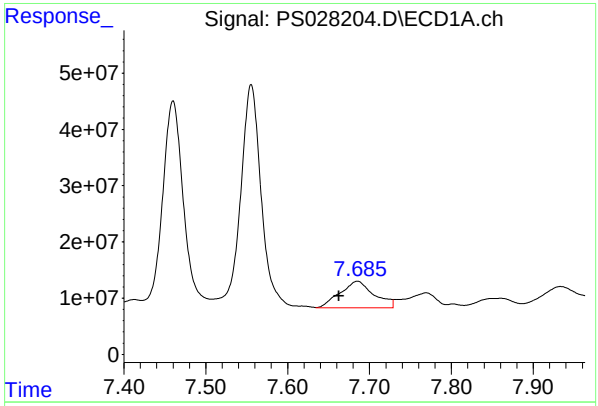
Manual Integrations APPROVED
Reviewed By :Abdul Mirza 11/05/2024
Supervised By :Ankita Jodhani 11/06/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 05 07:05:22 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS110424.M
Quant Title : 8080.M
QLast Update : Mon Nov 04 23:43:01 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm







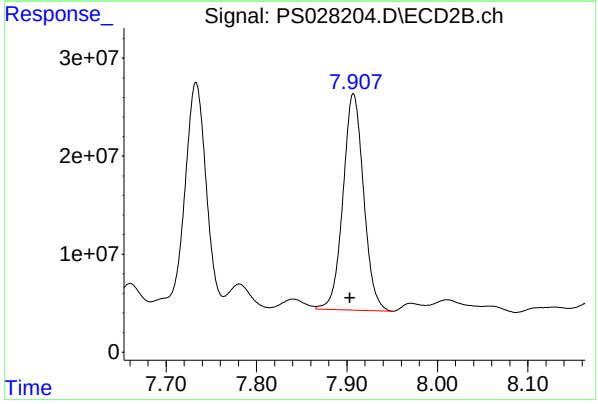
#4 2,4-DCAA

R.T.: 7.685 min
Delta R.T.: 0.022 min
Response: 135629786
Conc: 53.67 ng/ml

Instrument :
ECD_S
ClientSampleId :
TENNANT-PAD-2-3-STOCKPILE

Manual Integrations APPROVED

Reviewed By :Abdul Mirza 11/05/2024
Supervised By :Ankita Jodhani 11/06/2024



#4 2,4-DCAA

R.T.: 7.907 min
Delta R.T.: 0.004 min
Response: 349722284
Conc: 208.78 ng/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS110424\
Data File : PS028205.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 05 Nov 2024 04:47
Operator : AR\AJ
Sample : P4663-04
Misc :
ALS Vial : 29 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
RES-BUILDING-PAD-NO-11

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 05 07:05:42 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS110424.M
Quant Title : 8080.M
QLast Update : Mon Nov 04 23:43:01 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml	
	System Monitoring Compounds							
4) S	2,4-DCAA	7.683	7.908	97979901	341.8E6	38.768	204.027	#
	Target Compounds							

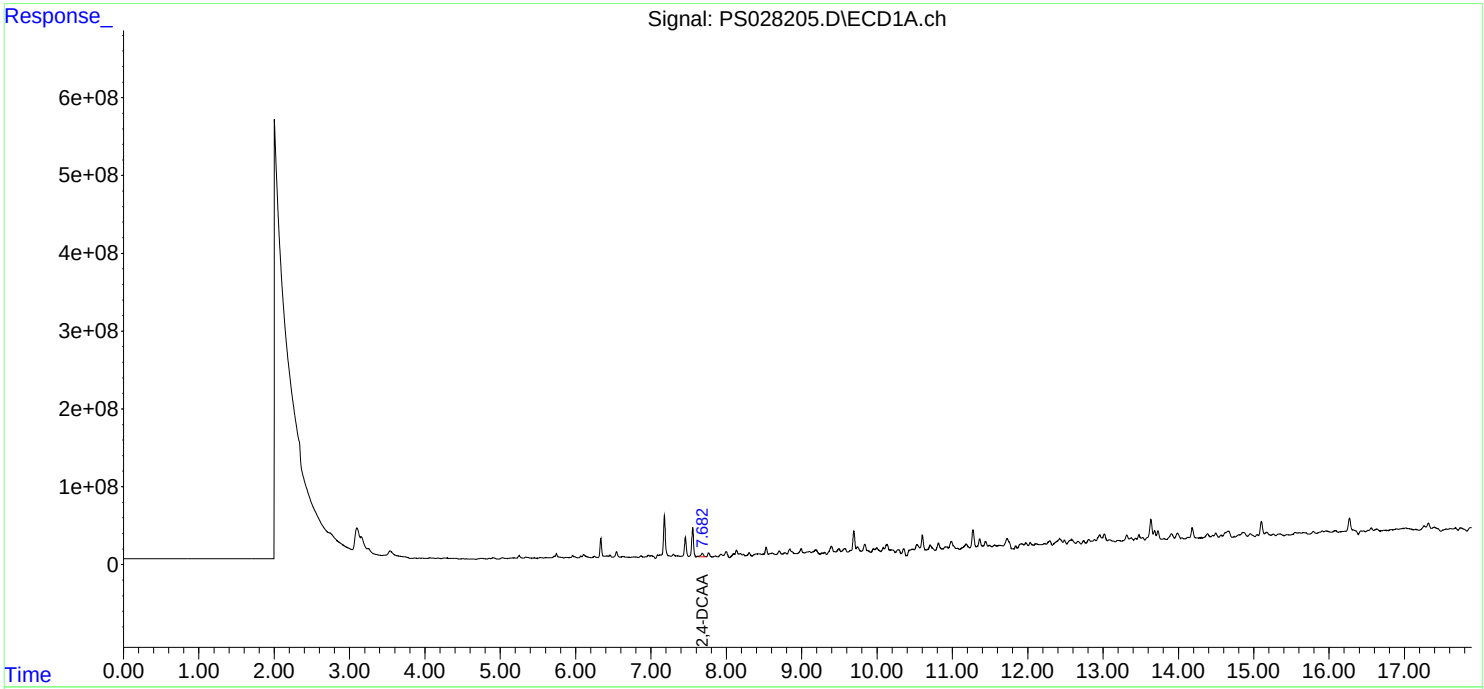
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

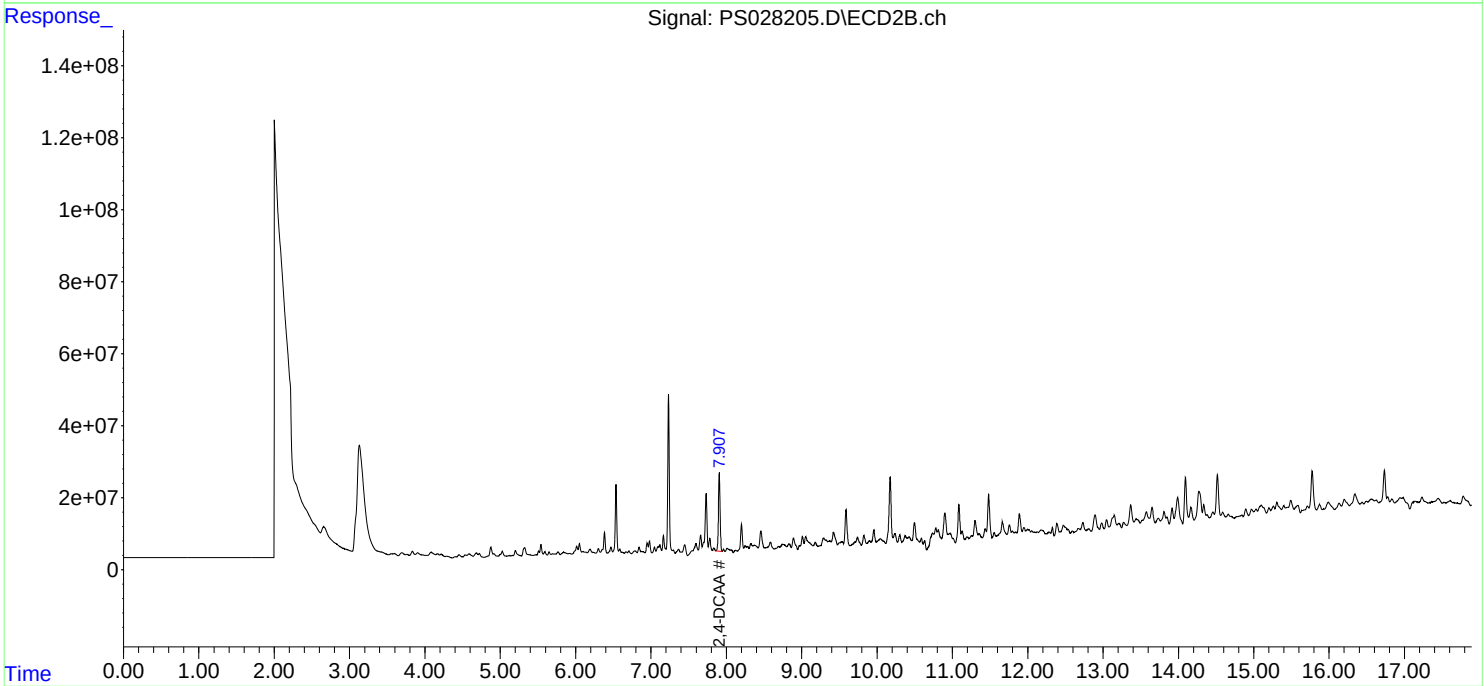
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS110424\
Data File : PS028205.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 05 Nov 2024 04:47
Operator : AR\AJ
Sample : P4663-04
Misc :
ALS Vial : 29 Sample Multiplier: 1

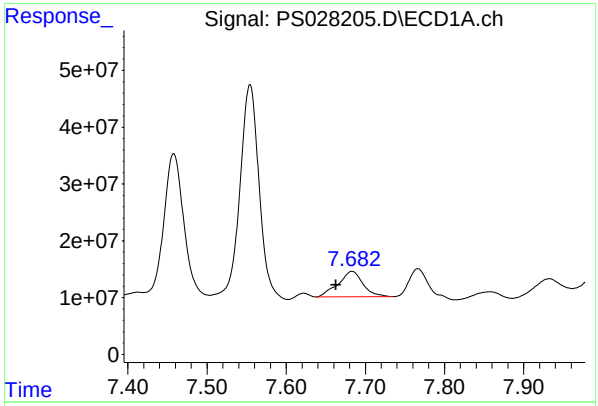
Instrument :
ECD_S
ClientSampleId :
RES-BUILDING-PAD-NO-11

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 05 07:05:42 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS110424.M
Quant Title : 8080.M
QLast Update : Mon Nov 04 23:43:01 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm



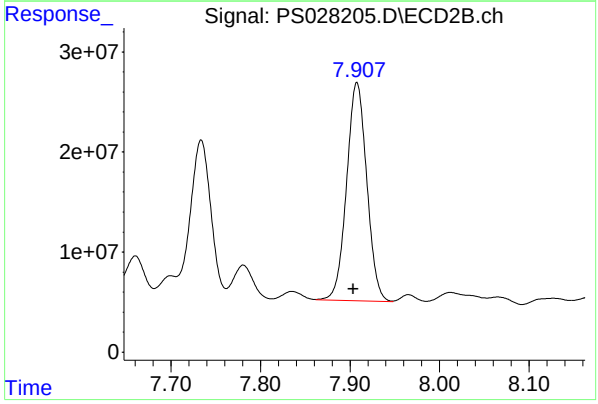




#4 2,4-DCAA

R.T.: 7.683 min
Delta R.T.: 0.020 min
Response: 97979901
Conc: 38.77 ng/ml

Instrument :
ECD_S
ClientSampleId :
RES-BUILDING-PAD-NO-11



#4 2,4-DCAA

R.T.: 7.908 min
Delta R.T.: 0.004 min
Response: 341758865
Conc: 204.03 ng/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS110424\
Data File : PS028206.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 05 Nov 2024 05:11
Operator : AR\AJ
Sample : P4663-06
Misc :
ALS Vial : 30 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
RES-BUILDING-PAD-NO-3

Manual Integrations APPROVED
Reviewed By :Abdul Mirza 11/05/2024
Supervised By :Ankita Jodhani 11/06/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 05 07:06:06 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS110424.M
Quant Title : 8080.M
QLast Update : Mon Nov 04 23:43:01 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
4) S	2,4-DCAA	7.680	7.907	178.7E6	249.6E6	70.726m	149.007m#
	Target Compounds						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

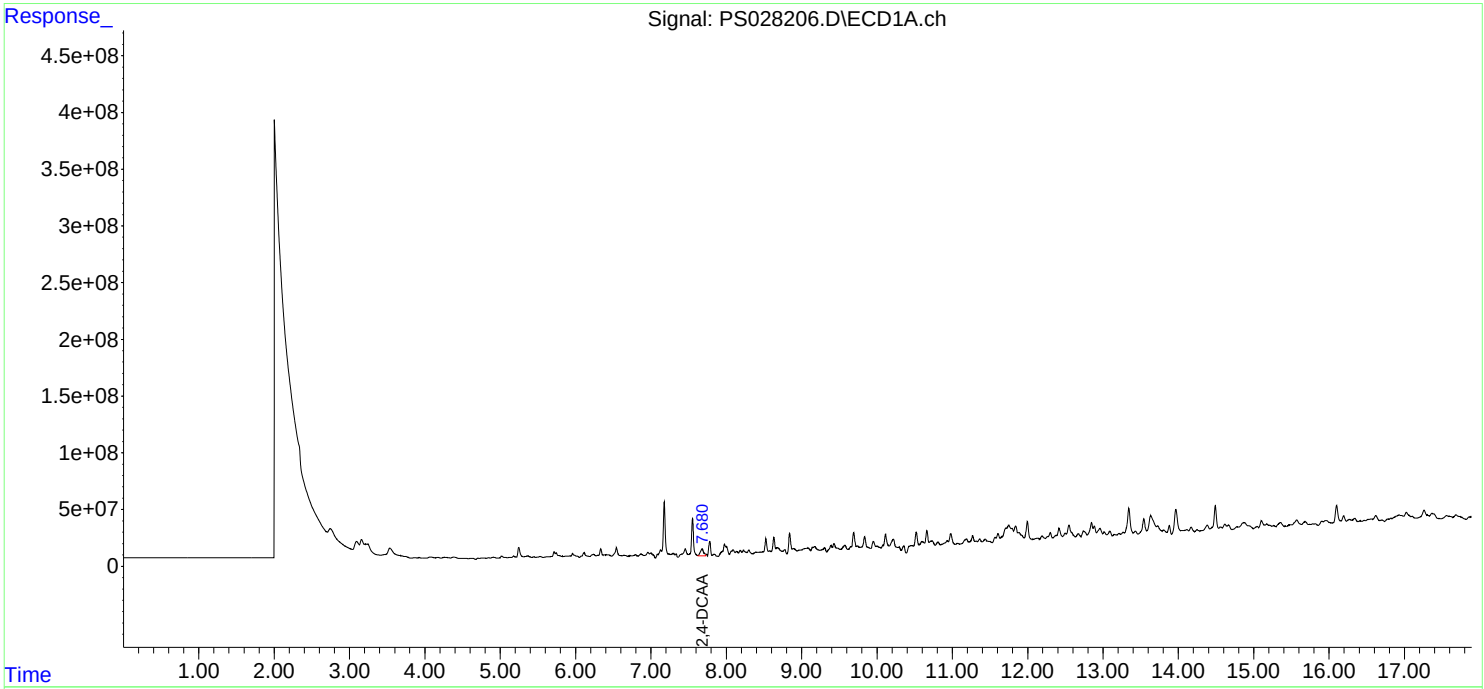
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS110424\
Data File : PS028206.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 05 Nov 2024 05:11
Operator : AR\AJ
Sample : P4663-06
Misc :
ALS Vial : 30 Sample Multiplier: 1

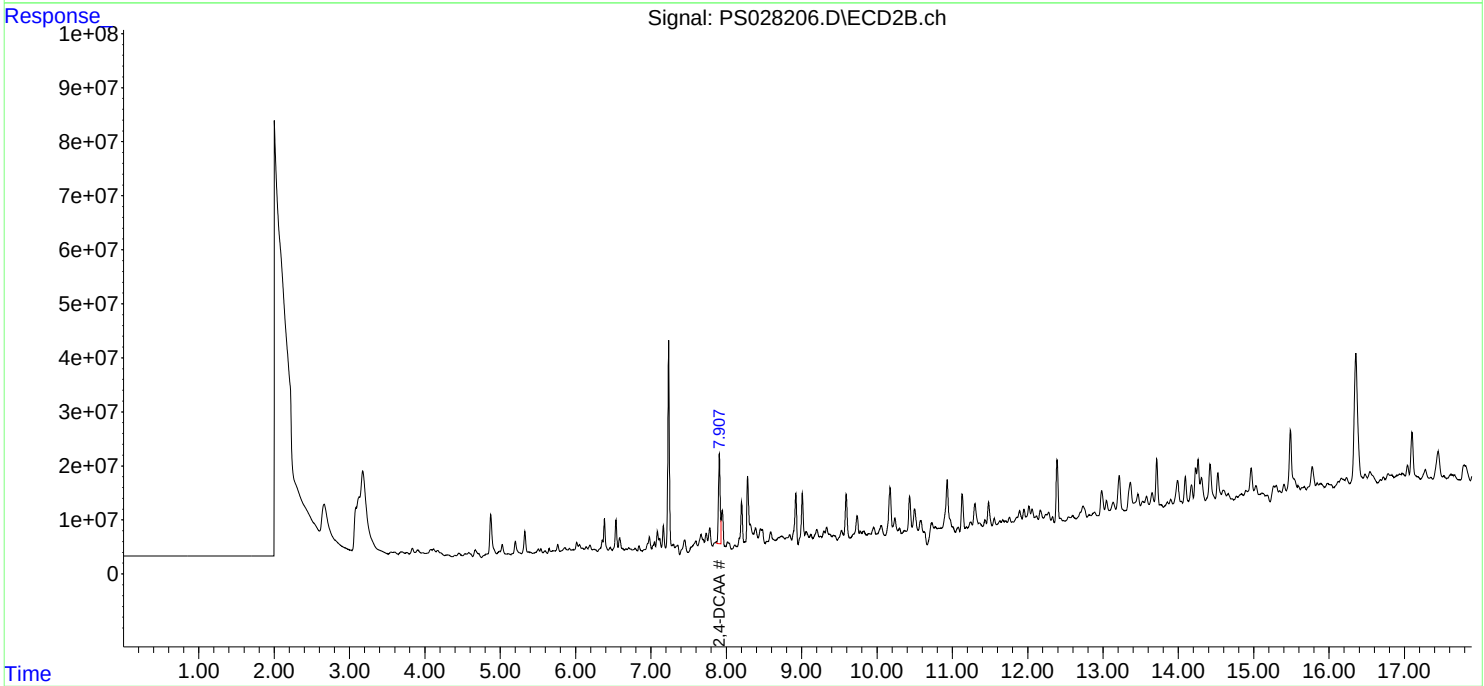
Instrument :
ECD_S
ClientSampleId :
RES-BUILDING-PAD-NO-3

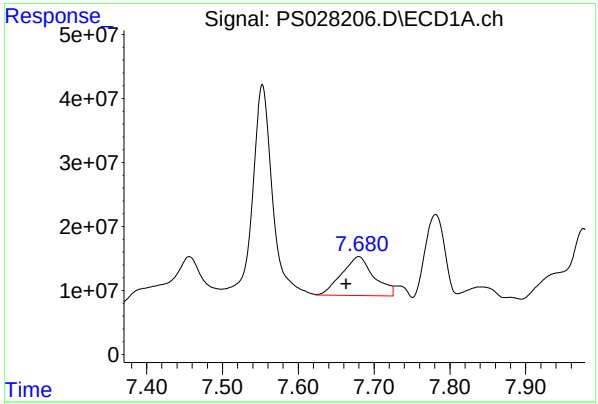
Manual Integrations APPROVED
Reviewed By :Abdul Mirza 11/05/2024
Supervised By :Ankita Jodhani 11/06/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 05 07:06:06 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS110424.M
Quant Title : 8080.M
QLast Update : Mon Nov 04 23:43:01 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm







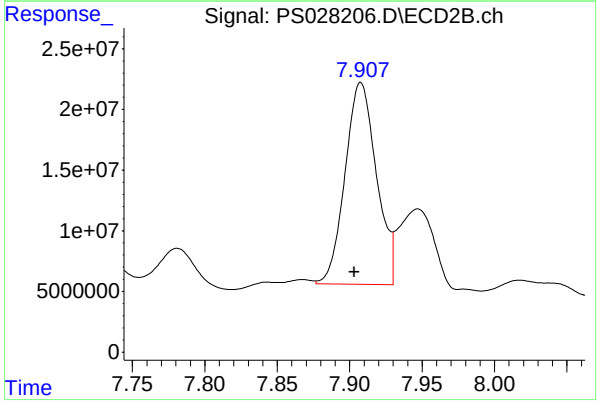
#4 2,4-DCAA

R.T.: 7.680 min
Delta R.T.: 0.017 mi
Response: 178746874
Conc: 70.73 ng/m

Instrument :
ECD_S
ClientSampleId :
RES-BUILDING-PAD-NO-3

Manual Integrations APPROVED

Reviewed By :Abdul Mirza 11/05/2024
Supervised By :Ankita Jodhani 11/06/2024



#4 2,4-DCAA

R.T.: 7.907 min
Delta R.T.: 0.004 min
Response: 249597693
Conc: 149.01 ng/ml m

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS110424\
Data File : PS028207.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 05 Nov 2024 05:35
Operator : AR\AJ
Sample : P4663-08
Misc :
ALS Vial : 31 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
RES-BUILDING-PAD-NO-2

Manual Integrations APPROVED
Reviewed By :Abdul Mirza 11/05/2024
Supervised By :Ankita Jodhani 11/06/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 05 07:06:31 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS110424.M
Quant Title : 8080.M
QLast Update : Mon Nov 04 23:43:01 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml	
	System Monitoring Compounds							
4) S	2,4-DCAA	7.680	7.907	135.5E6	443.0E6	53.598m	264.451	#
	Target Compounds							

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

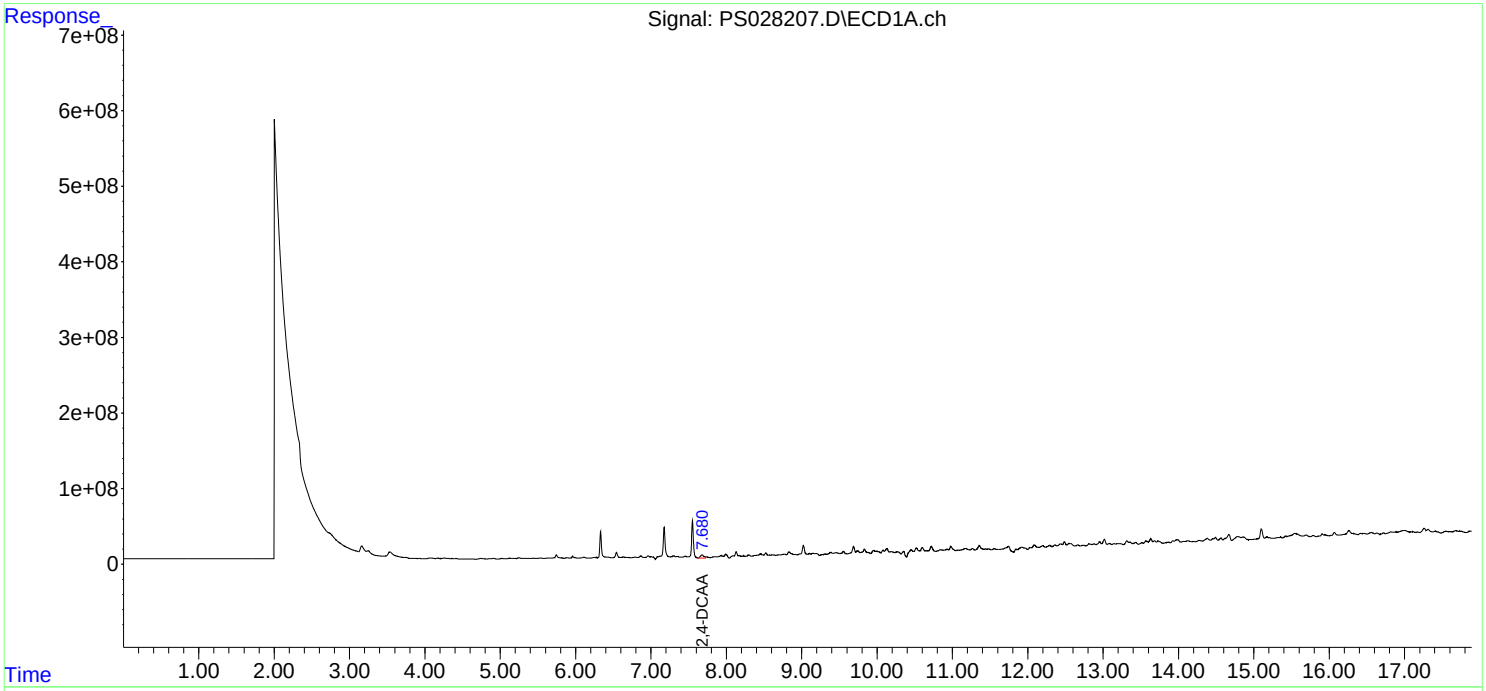
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS110424\
Data File : PS028207.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 05 Nov 2024 05:35
Operator : AR\AJ
Sample : P4663-08
Misc :
ALS Vial : 31 Sample Multiplier: 1

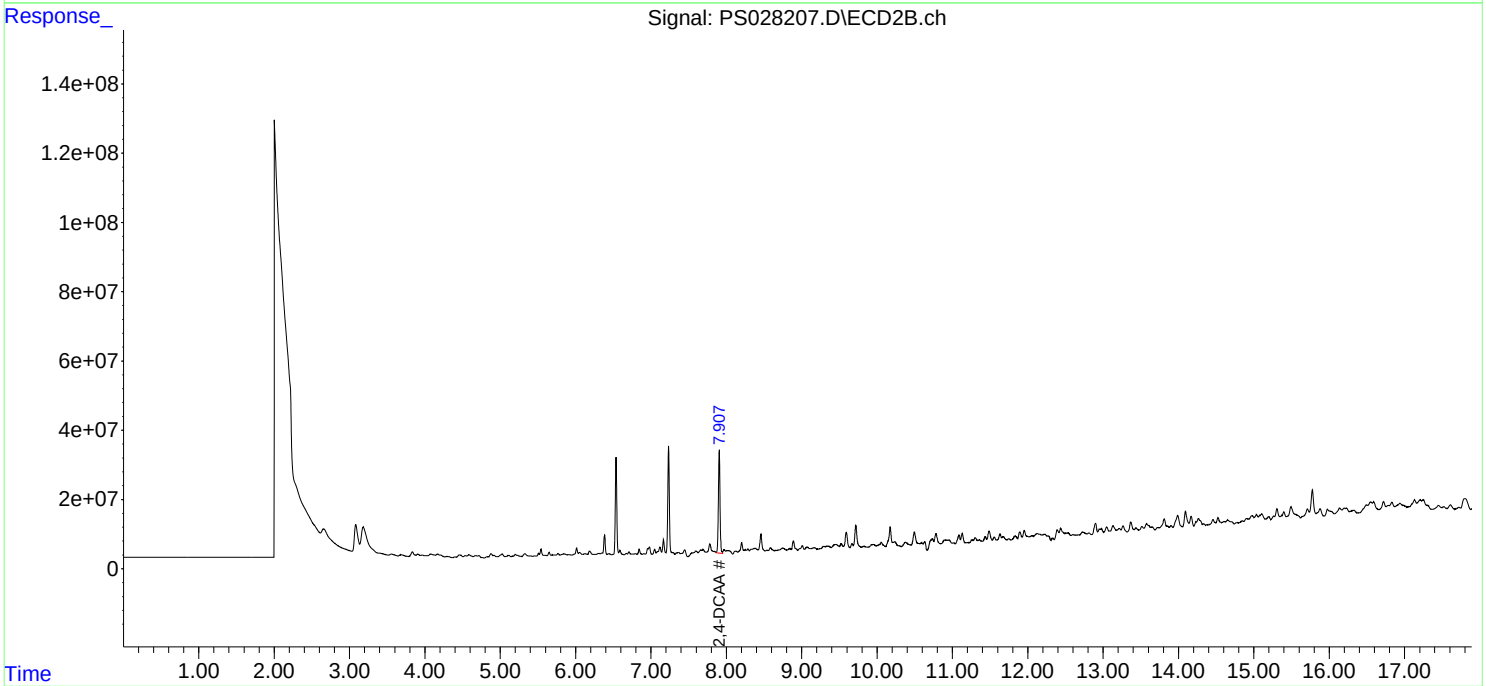
Instrument :
ECD_S
ClientSampleId :
RES-BUILDING-PAD-NO-2

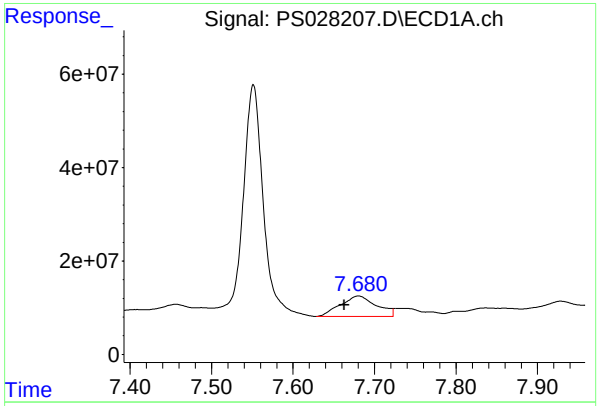
Manual Integrations APPROVED
Reviewed By :Abdul Mirza 11/05/2024
Supervised By :Ankita Jodhani 11/06/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 05 07:06:31 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS110424.M
Quant Title : 8080.M
QLast Update : Mon Nov 04 23:43:01 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm







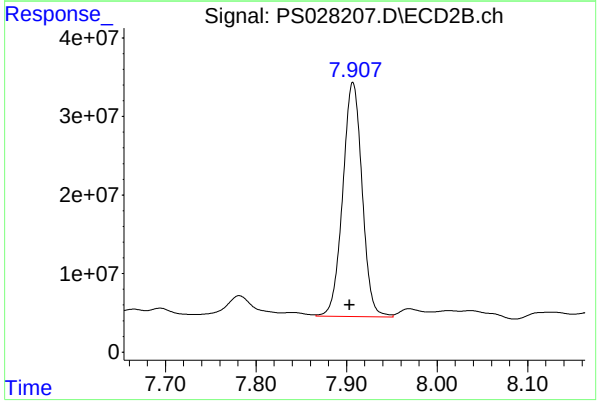
#4 2,4-DCAA

R.T.: 7.680 min
Delta R.T.: 0.017 min
Response: 135460260
Conc: 53.60 ng/ml

Instrument :
ECD_S
ClientSampleId :
RES-BUILDING-PAD-NO-2

Manual Integrations APPROVED

Reviewed By :Abdul Mirza 11/05/2024
Supervised By :Ankita Jodhani 11/06/2024



#4 2,4-DCAA

R.T.: 7.907 min
Delta R.T.: 0.004 min
Response: 442972841
Conc: 264.45 ng/ml

SAMPLE DATA

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

Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	10/31/24
Project:	Rt. 10 Whippany	Date Received:	10/31/24
Client Sample ID:	TENNANT-PAD-2-3-STOCKPILE	SDG No.:	P4663
Lab Sample ID:	P4663-02	Matrix:	SOIL
Analytical Method:	8015D TPH	% Solid:	90.9 Decanted:
Sample Wt/Vol:	30.06 Units: g	Final Vol:	1 mL
Soil Aliquot Vol:	uL	Test:	TPH GC
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG014621.D	1	11/01/24 11:35	11/01/24 14:43	PB164602

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
PHC	Petroleum Hydrocarbons	43100		349	3110	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

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Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	10/31/24
Project:	Rt. 10 Whippany	Date Received:	10/31/24
Client Sample ID:	RES-BUILDING-PAD-NO-11	SDG No.:	P4663
Lab Sample ID:	P4663-04	Matrix:	SOIL
Analytical Method:	8015D TPH	% Solid:	91.7 Decanted:
Sample Wt/Vol:	30.09 Units: g	Final Vol:	1 mL
Soil Aliquot Vol:	uL	Test:	TPH GC
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG014622.D	1	11/01/24 11:35	11/01/24 15:12	PB164602

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
PHC	Petroleum Hydrocarbons	27400		346	3080	ug/kg
SURROGATES						
16416-32-3	TETRACOSANE-d50	13.3		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

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Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	10/31/24
Project:	Rt. 10 Whippany	Date Received:	10/31/24
Client Sample ID:	RES-BUILDING-PAD-NO-3	SDG No.:	P4663
Lab Sample ID:	P4663-06	Matrix:	SOIL
Analytical Method:	8015D TPH	% Solid:	91.2 Decanted:
Sample Wt/Vol:	30.07 Units: g	Final Vol:	1 mL
Soil Aliquot Vol:	uL	Test:	TPH GC
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG014623.D	1	11/01/24 11:35	11/01/24 15:40	PB164602

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
PHC	Petroleum Hydrocarbons	38900		348	3100	ug/kg
SURROGATES						
16416-32-3	TETRACOSANE-d50	13.3		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

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Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	10/31/24
Project:	Rt. 10 Whippany	Date Received:	10/31/24
Client Sample ID:	RES-BUILDING-PAD-NO-2	SDG No.:	P4663
Lab Sample ID:	P4663-08	Matrix:	SOIL
Analytical Method:	8015D TPH	% Solid:	91.3 Decanted:
Sample Wt/Vol:	30.03 Units: g	Final Vol:	1 mL
Soil Aliquot Vol:	uL	Test:	TPH GC
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG014624.D	1	11/01/24 11:35	11/01/24 16:09	PB164602

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
PHC	Petroleum Hydrocarbons	19700		348	3100	ug/kg
SURROGATES						
16416-32-3	TETRACOSANE-d50	14.9		37 - 130	75%	SPK: 20

Comments:

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

J = Estimated Value
B = Analyte Found in Associated Method Blank
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 TPH GC SURROGATE RECOVERY

Lab Name: Chemtech Client: Union Paving & Construction Company

Lab Code: CHEM Case No.: P4663 SAS No.: P4663 SDG No.: P4663

EPA SAMPLE NO.	S1 TETRACOSANE-d50	S2	S3	S4	TOT OUT
PIBLK-FG014617.D	89				0
PIBLK-FG014625.D	88				0
PIBLK-FG014631.D	97				0
TENNANT-PAD-2-3-STOCKPILE	54				0
RES-BUILDING-PAD-NO-11	67				0
RES-BUILDING-PAD-NO-3	67				0
RES-BUILDING-PAD-NO-2	75				0
RES-BUILDING-PAD-NO-2MS	62				0
RES-BUILDING-PAD-NO-2MSD	59				0
PB164602BL	80				0
PB164602BS	82				0

	QC LIMITS
TETRACOSANE-d50	For Water : 29-130 For Soil : 37-130

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

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SOIL TPH GC MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** Union Paving & Construction Company

Lab Code: CHEM **Cas No:** P4663 **SAS No :** P4663 **SDG No:** P4663

Client SampleID : RES-BUILDING-PAD-NO-2MS **Datafile:** FG014629.D

COMPOUND	SPIKE ADDED ug/kg	SAMPLE CONCENTRATION ug/kg	MS/MSD CONCENTRATION ug/kg	% REC	Qual	QC LIMITS
Petroleum Hydrocarbons	12380	19700	19368	-3%	*	68-131

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SOIL TPH GC MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** Union Paving & Construction Company

Lab Code: CHEM **Cas No:** P4663 **SAS No :** P4663 **SDG No:** P4663

Client SampleID : RES-BUILDING-PAD-NO-2MSD **Datafile:** FG014630.D

COMPOUND	SPIKE ADDED ug/kg	SAMPLE CONCENTRATION ug/kg	MS/MSD CONCENTRATION ug/kg	% REC	Qual	QC LIMITS
Petroleum Hydrocarbons	12372	19700	19172	-4%	*	68-131

MS/MSD % Recovery RPD : 47.1

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SOIL TPH GC LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** Union Paving & Construction Company

Lab Code: CHEM **Cas No:** P4663 **SAS No :** P4663 **SDG No:** P4663

Matrix Spike - EPA Sample No : PB164602BS **Datafile:** FG014628.D

COMPOUND	SPIKE ADDED ug/kg	CONCENTRATION ug/kg	LCS/LCSD CONCENTRATION ug/kg	% REC	QC LIMITS
Petroleum Hydrocarbons	11322	0	10349	91	68-131

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4B
METHOD BLANK SUMMARY

EPA SAMPLE NO.
PB164602BL

Lab Name: CHEMTECH Contract: UNIO02

Lab Code: CHEM Case No.: P4663 SAS No.: P4663 SDG NO.: P4663

Lab File ID: FG014627.D Lab Sample ID: PB164602BL

Instrument ID: FG Date Extracted: 11/01/2024

Matrix: (soil/water) Soil Date Analyzed: 11/01/24

Level: (low/med) low Time Analyzed: 18:31

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
TENNANT-PAD-2-3-STOCKPILE	P4663-02	FG014621.D	11/01/24
RES-BUILDING-PAD-NO-11	P4663-04	FG014622.D	11/01/24
RES-BUILDING-PAD-NO-3	P4663-06	FG014623.D	11/01/24
RES-BUILDING-PAD-NO-2	P4663-08	FG014624.D	11/01/24
PB164602BS	PB164602BS	FG014628.D	11/01/24
RES-BUILDING-PAD-NO-2MS	P4663-08MS	FG014629.D	11/01/24
RES-BUILDING-PAD-NO-2MSD	P4663-08MSD	FG014630.D	11/01/24

COMMENTS:

QC SAMPLE DATA

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Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	
Project:	Rt. 10 Whippany	Date Received:	
Client Sample ID:	PB164602BL	SDG No.:	P4663
Lab Sample ID:	PB164602BL	Matrix:	SOIL
Analytical Method:	8015D TPH	% Solid:	100 Decanted:
Sample Wt/Vol:	30.01 Units: g	Final Vol:	1 mL
Soil Aliquot Vol:	uL	Test:	TPH GC
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG014627.D	1	11/01/24 11:35	11/01/24 18:31	PB164602

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
PHC	Petroleum Hydrocarbons	318	U	318	2830	ug/kg
SURROGATES						
16416-32-3	TETRACOSANE-d50	16.1		37 - 130	80%	SPK: 20

Comments:

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

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

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Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	11/01/24
Project:	Rt. 10 Whippany	Date Received:	11/01/24
Client Sample ID:	PIBLK-FG014617.D	SDG No.:	P4663
Lab Sample ID:	I.BLK-FG014617.D	Matrix:	Water
Analytical Method:	8015D TPH	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1 mL
Soil Aliquot Vol:	uL	Test:	TPH GC
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :	SW3510		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG014617.D	1		11/01/24	FG110124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
PHC	Petroleum Hydrocarbons	9.00	U	9.00	85.0	ug/L
SURROGATES						
16416-32-3	TETRACOSANE-d50	17.9		29 - 130	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:	Union Paving & Construction Company	Date Collected:	11/01/24
Project:	Rt. 10 Whippany	Date Received:	11/01/24
Client Sample ID:	PIBLK-FG014625.D	SDG No.:	P4663
Lab Sample ID:	I.BLK-FG014625.D	Matrix:	Water
Analytical Method:	8015D TPH	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1 mL
Soil Aliquot Vol:	uL	Test:	TPH GC
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :	SW3510		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG014625.D	1		11/01/24	FG110124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
PHC	Petroleum Hydrocarbons	9.00	U	9.00	85.0	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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Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	11/01/24
Project:	Rt. 10 Whippany	Date Received:	11/01/24
Client Sample ID:	PIBLK-FG014631.D	SDG No.:	P4663
Lab Sample ID:	I.BLK-FG014631.D	Matrix:	Water
Analytical Method:	8015D TPH	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1 mL
Soil Aliquot Vol:	uL	Test:	TPH GC
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :	SW3510		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG014631.D	1		11/01/24	FG110124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
PHC	Petroleum Hydrocarbons	9.00	U	9.00	85.0	ug/L
SURROGATES						
16416-32-3	TETRACOSANE-d50	19.4		29 - 130	97%	SPK: 20

Comments:

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

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = 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:	Union Paving & Construction Company	Date Collected:	
Project:	Rt. 10 Whippany	Date Received:	
Client Sample ID:	PB164602BS	SDG No.:	P4663
Lab Sample ID:	PB164602BS	Matrix:	SOIL
Analytical Method:	8015D TPH	% Solid:	100 Decanted:
Sample Wt/Vol:	30.03 Units: g	Final Vol:	1 mL
Soil Aliquot Vol:	uL	Test:	TPH GC
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG014628.D	1	11/01/24 11:35	11/01/24 19:00	PB164602

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
PHC	Petroleum Hydrocarbons	10300		318	2830	ug/kg
SURROGATES						
16416-32-3	TETRACOSANE-d50	16.5		37 - 130	82%	SPK: 20

Comments:

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

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

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Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	10/31/24
Project:	Rt. 10 Whippany	Date Received:	10/31/24
Client Sample ID:	RES-BUILDING-PAD-NO-2MS	SDG No.:	P4663
Lab Sample ID:	P4663-08MS	Matrix:	SOIL
Analytical Method:	8015D TPH	% Solid:	91.3 Decanted:
Sample Wt/Vol:	30.08 Units: g	Final Vol:	1 mL
Soil Aliquot Vol:	uL	Test:	TPH GC
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG014629.D	1	11/01/24 11:35	11/01/24 19:28	PB164602

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
PHC	Petroleum Hydrocarbons	19400		348	3100	ug/kg
SURROGATES						
16416-32-3	TETRACOSANE-d50	12.4		37 - 130	62%	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:	Union Paving & Construction Company	Date Collected:	10/31/24
Project:	Rt. 10 Whippany	Date Received:	10/31/24
Client Sample ID:	RES-BUILDING-PAD-NO-2MSD	SDG No.:	P4663
Lab Sample ID:	P4663-08MSD	Matrix:	SOIL
Analytical Method:	8015D TPH	% Solid:	91.3 Decanted:
Sample Wt/Vol:	30.1 Units: g	Final Vol:	1 mL
Soil Aliquot Vol:	uL	Test:	TPH GC
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG014630.D	1	11/01/24 11:35	11/01/24 19:56	PB164602

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
PHC	Petroleum Hydrocarbons	19200		347	3090	ug/kg
SURROGATES						
16416-32-3	TETRACOSANE-d50	11.9		37 - 130	59%	SPK: 20

Comments:

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

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

CALIBRATION SUMMARY

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TPH GC INITIAL CALIBRATION SUMMARY

Lab Name: Chemtech Contract: UNIO02

ProjectID: Rt. 10 Whippany

Lab Code: CHEM Case No.: P4663 SAS No.: P4663 SDG No.: P4663

Calibration Sequence : FG102124		Test : TPH GC	
Concentration (PPM)	**Area Count**	**Reference Factor**	**File ID**
1700	202059326	118858	FG014453.D
850	102753431	120886	FG014454.D
340	42726636	125667	FG014455.D
170	22264935	130970	FG014456.D
85	11318543	133159	FG014457.D
AVG RF : 125908	**% RSD : 4.915**		**AVG RT : 15.0822**

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TPH GC CONTINUING CALIBRATION SUMMARY

50 PPM TRPH STD

Lab Name: Chemtech Contract: UNIO02

ProjectID: Rt. 10 Whippany

Lab Code: CHEM Case No.: P4663 SAS No.: P4663 SDG No.: P4663

DataFile: FG014618.D Analyst Name: YP\AJ Analyst Date: 11-01-2024

Conc. (PPM)	Area Count	RF	Average RF	%D
850	107947749	126997	125908	0.865

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TPH GC CONTINUING CALIBRATION SUMMARY

50 PPM TRPH STD

Lab Name: Chemtech Contract: UNIO02

ProjectID: Rt. 10 Whippany

Lab Code: CHEM Case No.: P4663 SAS No.: P4663 SDG No.: P4663

DataFile: FG014626.D Analyst Name: YP\AJ Analyst Date: 11-01-2024

Conc. (PPM)	Area Count	RF	Average RF	%D
850	107528220	126504	125908	0.473

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TPH GC CONTINUING CALIBRATION SUMMARY

50 PPM TRPH STD

Lab Name: Chemtech Contract: UNIO02

ProjectID: Rt. 10 Whippany

Lab Code: CHEM Case No.: P4663 SAS No.: P4663 SDG No.: P4663

DataFile: FG014632.D Analyst Name: YP\AJ Analyst Date: 11-01-2024

Conc. (PPM)	Area Count	RF	Average RF	%D
850	118323937	139205	125908	10.561

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Analytical Sequence

Client: Union Paving & Construction Company **SDG No.:** P4663

Project: Rt. 10 Whippany **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 **15.0822**

EPA SAMPLE NO.	LAB SAMPLE ID	DATE AND TIME ANALYZED	DATAFILE	RT	#
PIBLK01	I.BLK01	01 Nov 2024 12:50	FG014617.D	15.049	
50 PPM TRPH STD	50 PPM TRPH STD	01 Nov 2024 13:18	FG014618.D	15.052	
TENNANT-PAD-2-3-STOCKPILE	P4663-02	01 Nov 2024 14:43	FG014621.D	15.049	
RES-BUILDING-PAD-NO-11	P4663-04	01 Nov 2024 15:12	FG014622.D	15.053	
RES-BUILDING-PAD-NO-3	P4663-06	01 Nov 2024 15:40	FG014623.D	15.053	
RES-BUILDING-PAD-NO-2	P4663-08	01 Nov 2024 16:09	FG014624.D	15.055	
PIBLK02	I.BLK02	01 Nov 2024 16:37	FG014625.D	15.055	
50 PPM TRPH STD	50 PPM TRPH STD	01 Nov 2024 17:34	FG014626.D	15.057	
PB164602BL	PB164602BL	01 Nov 2024 18:31	FG014627.D	15.052	
PB164602BS	PB164602BS	01 Nov 2024 19:00	FG014628.D	15.053	
RES-BUILDING-PAD-NO-2MS	P4663-08MS	01 Nov 2024 19:28	FG014629.D	15.053	
RES-BUILDING-PAD-NO-2MSD	P4663-08MSD	01 Nov 2024 19:56	FG014630.D	15.051	
PIBLK03	I.BLK03	01 Nov 2024 20:25	FG014631.D	15.053	
50 PPM TRPH STD	50 PPM TRPH STD	01 Nov 2024 21:22	FG014632.D	15.056	

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

QC Limits	Lower Limit	Upper Limits
(± 0.10 minutes)	14.9822	15.1822

SAMPLE RAW DATA

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG110124\
Data File : FG014621.D
Signal(s) : FID1A.ch
Acq On : 01 Nov 2024 14:43
Operator : YP\AJ
Sample : P4663-02
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
TENNANT-PAD-2-3-STOCKPILE

Integration File: autoint1.e
Quant Time: Nov 04 01:30:22 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG102124.M
Quant Title :
QLast Update : Mon Oct 21 17:03:32 2024
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...	15.049	1280647	10.707 ug/ml
Target Compounds			

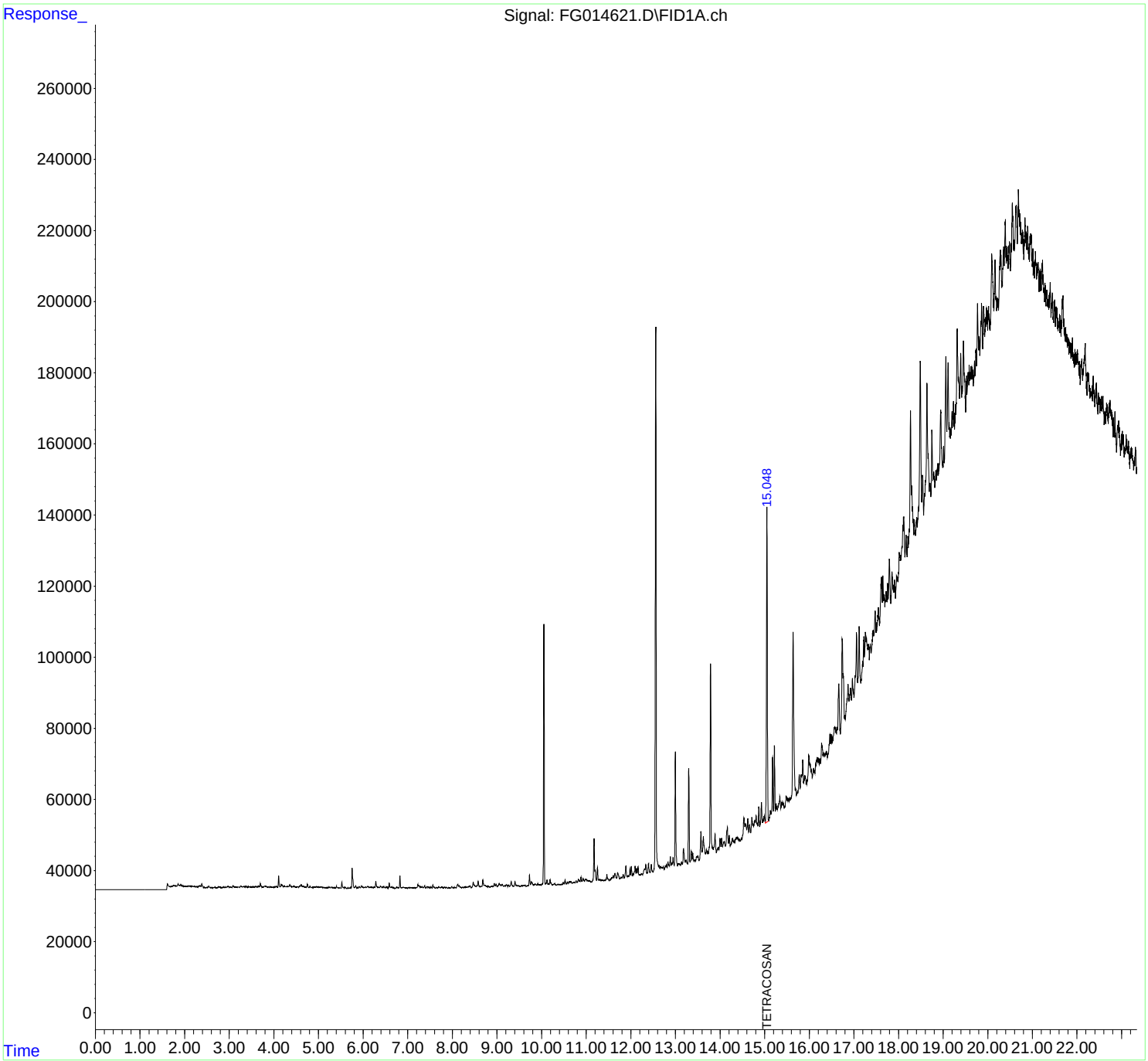
(f)=RT Delta > 1/2 Window (m)=manual int.

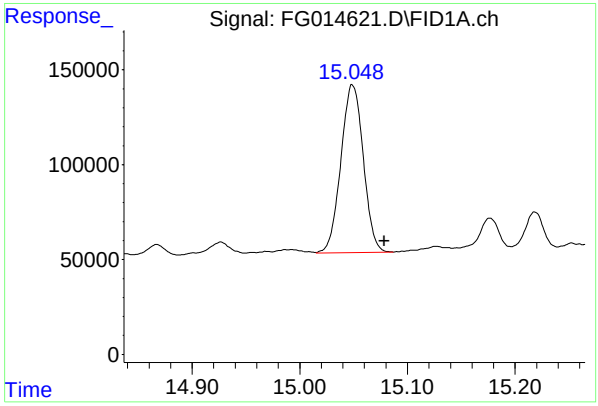
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG110124\
Data File : FG014621.D
Signal(s) : FID1A.ch
Acq On : 01 Nov 2024 14:43
Operator : YP\AJ
Sample : P4663-02
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
TENNANT-PAD-2-3-STOCKPILE

Integration File: autoint1.e
Quant Time: Nov 04 01:30:22 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG102124.M
Quant Title :
QLast Update : Mon Oct 21 17:03:32 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal Phase : Rxi-1ms
Signal Info : 20mx0.18mmx0.18um





#9 TETRACOSANE-d50 (SURROGATE)

R.T.: 15.049 min
Delta R.T.: -0.030 mi
Response: 1280647
Conc: 10.71 ug/m

Instrument :
FID_G
ClientSampleId :
TENNANT-PAD-2-3-STOCKPILE

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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\FG110124\
Data File : FG014621.D
Signal(s) : FID1A.ch
Acq On : 01 Nov 2024 14:43
Sample : P4663-02
Misc :
ALS Vial : 21 Sample Multiplier: 1

Integration File: Sample.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG102124.M
Title :

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	1.914	1.900	1.958	BV	221	2217	0.07%	0.001%
2	1.968	1.958	2.008	PV	123	1962	0.07%	0.001%
3	2.011	2.008	2.016	VV	71	161	0.01%	0.000%
4	2.020	2.016	2.030	PV	55	279	0.01%	0.000%
5	2.050	2.030	2.058	VV	92	804	0.03%	0.001%
6	2.074	2.058	2.080	VV	230	2254	0.07%	0.002%
7	2.095	2.080	2.098	VV	291	2537	0.08%	0.002%
8	2.104	2.098	2.116	VV	300	2748	0.09%	0.002%
9	2.120	2.116	2.130	VV	289	2162	0.07%	0.001%
10	2.134	2.130	2.168	VV	286	5265	0.18%	0.004%
11	2.173	2.168	2.203	VV	259	4309	0.14%	0.003%
12	2.210	2.203	2.252	VV	249	5183	0.17%	0.003%
13	2.272	2.252	2.278	VV	260	3008	0.10%	0.002%
14	2.282	2.278	2.298	VV	201	2202	0.07%	0.001%
15	2.303	2.298	2.308	VV	260	1170	0.04%	0.001%
16	2.325	2.308	2.339	VV	507	7164	0.24%	0.005%
17	2.346	2.339	2.351	VV	467	3024	0.10%	0.002%
18	2.354	2.351	2.371	VV	470	5138	0.17%	0.003%
19	2.383	2.371	2.430	VV	1075	16716	0.56%	0.011%
20	2.437	2.430	2.441	VV	102	373	0.01%	0.000%
21	2.445	2.441	2.474	VV	96	725	0.02%	0.000%
22	2.481	2.474	2.485	PV	98	270	0.01%	0.000%
23	2.490	2.485	2.503	VV	123	659	0.02%	0.000%
24	2.508	2.503	2.514	VV	95	382	0.01%	0.000%
25	2.539	2.514	2.562	VV	536	7522	0.25%	0.005%
26	2.567	2.562	2.585	VV	156	1603	0.05%	0.001%
27	2.589	2.585	2.597	VV	108	564	0.02%	0.000%
28	2.609	2.597	2.619	VV	124	901	0.03%	0.001%
29	2.636	2.619	2.641	VV	100	844	0.03%	0.001%
30	2.657	2.641	2.662	VV	178	1780	0.06%	0.001%
31	2.673	2.662	2.677	VV	157	1147	0.04%	0.001%
32	2.681	2.677	2.688	VV	204	858	0.03%	0.001%
33	2.691	2.688	2.706	VV	120	913	0.03%	0.001%
34	2.710	2.706	2.714	VV	98	241	0.01%	0.000%
35	2.726	2.714	2.732	PV	82	548	0.02%	0.000%
36	2.773	2.732	2.781	VV	336	6718	0.22%	0.004%

rteres

37	2.785	2.781	2.808	VV	287	3580	0.12%	0.002%
38	2.813	2.808	2.820	VV	214	1174	0.04%	0.001%
39	2.832	2.820	2.846	VV	184	2121	0.07%	0.001%
40	2.871	2.846	2.883	VV	393	5218	0.17%	0.003%
41	2.887	2.883	2.915	VV	274	4165	0.14%	0.003%
42	2.918	2.915	2.924	VV	208	889	0.03%	0.001%
43	2.931	2.924	2.936	VV	197	1269	0.04%	0.001%
44	2.970	2.936	3.013	VV	615	17594	0.59%	0.012%
45	3.022	3.013	3.059	VV	349	6841	0.23%	0.005%
46	3.079	3.059	3.112	VV	686	13443	0.45%	0.009%
47	3.117	3.112	3.130	VV	360	3308	0.11%	0.002%
48	3.135	3.130	3.143	VV	324	2212	0.07%	0.001%
49	3.147	3.143	3.158	VV	305	2471	0.08%	0.002%
50	3.169	3.158	3.173	VV	256	2124	0.07%	0.001%
51	3.181	3.173	3.190	VV	336	3163	0.11%	0.002%
52	3.197	3.190	3.233	VV	352	7395	0.25%	0.005%
53	3.254	3.233	3.270	VV	621	10250	0.34%	0.007%
54	3.272	3.270	3.311	VV	489	9618	0.32%	0.006%
55	3.334	3.311	3.347	VV	454	8219	0.27%	0.005%
56	3.351	3.347	3.358	VV	391	2152	0.07%	0.001%
57	3.373	3.358	3.393	VV	465	8281	0.28%	0.006%
58	3.397	3.393	3.411	VV	376	3415	0.11%	0.002%
59	3.414	3.411	3.421	VV	365	1954	0.07%	0.001%
60	3.424	3.421	3.431	VV	364	1919	0.06%	0.001%
61	3.447	3.431	3.472	VV	390	8584	0.29%	0.006%
62	3.475	3.472	3.485	VV	411	2716	0.09%	0.002%
63	3.491	3.485	3.506	VV	354	3941	0.13%	0.003%
64	3.526	3.506	3.539	VV	384	6816	0.23%	0.005%
65	3.544	3.539	3.557	VV	403	3582	0.12%	0.002%
66	3.573	3.557	3.581	VV	424	5509	0.18%	0.004%
67	3.594	3.581	3.603	VV	468	5527	0.18%	0.004%
68	3.612	3.603	3.630	VV	408	6327	0.21%	0.004%
69	3.647	3.630	3.659	VV	460	6996	0.23%	0.005%
70	3.676	3.659	3.680	VV	495	5044	0.17%	0.003%
71	3.698	3.680	3.749	VV	1313	26510	0.88%	0.018%
72	3.753	3.749	3.757	VV	328	1452	0.05%	0.001%
73	3.772	3.757	3.776	VV	393	3875	0.13%	0.003%
74	3.795	3.776	3.828	VV	571	15214	0.51%	0.010%
75	3.831	3.828	3.869	VV	485	9344	0.31%	0.006%
76	3.875	3.869	3.896	VV	351	4932	0.16%	0.003%
77	3.915	3.896	3.934	VV	421	7606	0.25%	0.005%
78	3.939	3.934	3.942	VV	358	1563	0.05%	0.001%
79	3.952	3.942	3.992	VV	364	8690	0.29%	0.006%
80	4.012	3.992	4.026	VV	391	6310	0.21%	0.004%
81	4.041	4.026	4.061	VV	513	8939	0.30%	0.006%
82	4.064	4.061	4.078	VV	433	3858	0.13%	0.003%
83	4.107	4.078	4.142	VV	3482	44369	1.48%	0.030%
84	4.165	4.142	4.177	VV	1128	15718	0.52%	0.010%
85	4.181	4.177	4.212	VV	826	14269	0.47%	0.010%
86	4.231	4.212	4.255	VV	714	14069	0.47%	0.009%
87	4.263	4.255	4.273	VV	460	4819	0.16%	0.003%
88	4.283	4.273	4.292	VV	525	5529	0.18%	0.004%
89	4.299	4.292	4.306	VV	502	3893	0.13%	0.003%

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90	4.322	4.306	4.335	VV	516	8399	0.28%	0.006%
91	4.357	4.335	4.386	VV	1094	21504	0.72%	0.014%
92	4.390	4.386	4.416	VV	583	8497	0.28%	0.006%
93	4.420	4.416	4.425	VV	436	2181	0.07%	0.001%
94	4.445	4.425	4.464	VV	697	12545	0.42%	0.008%
95	4.468	4.464	4.479	VV	460	4015	0.13%	0.003%
96	4.483	4.479	4.488	VV	363	1856	0.06%	0.001%
97	4.492	4.488	4.497	VV	386	1807	0.06%	0.001%
98	4.505	4.497	4.512	VV	390	2953	0.10%	0.002%
99	4.537	4.512	4.551	VV	441	9168	0.31%	0.006%
100	4.556	4.551	4.563	VV	367	2373	0.08%	0.002%
101	4.580	4.563	4.596	VV	759	11569	0.38%	0.008%
102	4.608	4.596	4.648	VV	985	21689	0.72%	0.014%
103	4.658	4.648	4.697	VV	602	13464	0.45%	0.009%
104	4.708	4.697	4.729	VV	391	6565	0.22%	0.004%
105	4.752	4.729	4.773	VV	1213	17429	0.58%	0.012%
106	4.779	4.773	4.784	VV	260	1714	0.06%	0.001%
107	4.807	4.784	4.860	VV	518	14969	0.50%	0.010%
108	4.864	4.860	4.876	VV	296	2549	0.08%	0.002%
109	4.905	4.876	4.927	VV	463	10384	0.35%	0.007%
110	4.961	4.927	4.980	VV	483	11769	0.39%	0.008%
111	4.993	4.980	5.012	VV	439	7265	0.24%	0.005%
112	5.031	5.012	5.049	VV	400	7714	0.26%	0.005%
113	5.067	5.049	5.088	VV	468	8788	0.29%	0.006%
114	5.093	5.088	5.104	VV	331	2573	0.09%	0.002%
115	5.110	5.104	5.121	VV	289	2437	0.08%	0.002%
116	5.140	5.121	5.164	VV	292	5952	0.20%	0.004%
117	5.184	5.164	5.191	VV	202	2477	0.08%	0.002%
118	5.198	5.191	5.208	VV	251	1940	0.06%	0.001%
119	5.242	5.208	5.263	VV	401	8705	0.29%	0.006%
120	5.281	5.263	5.310	VV	432	7942	0.26%	0.005%
121	5.328	5.310	5.348	VV	245	4534	0.15%	0.003%
122	5.356	5.348	5.372	VV	187	2122	0.07%	0.001%
123	5.403	5.372	5.453	VV	626	11760	0.39%	0.008%
124	5.459	5.453	5.476	VV	224	2103	0.07%	0.001%
125	5.482	5.476	5.506	VV	158	2308	0.08%	0.002%
126	5.524	5.506	5.551	VV	1705	20552	0.68%	0.014%
127	5.563	5.551	5.583	VV	311	4391	0.15%	0.003%
128	5.599	5.583	5.638	VV	335	5579	0.19%	0.004%
129	5.642	5.638	5.654	VV	86	250	0.01%	0.000%
130	5.674	5.654	5.682	PV	144	1350	0.04%	0.001%
131	5.686	5.682	5.702	VV	102	793	0.03%	0.001%
132	5.717	5.702	5.724	VV	286	2501	0.08%	0.002%
133	5.728	5.724	5.732	VV	242	1097	0.04%	0.001%
134	5.755	5.732	5.810	VV	5745	82546	2.75%	0.055%
135	5.833	5.810	5.872	VV	721	13744	0.46%	0.009%
136	5.911	5.872	5.937	VV	553	11646	0.39%	0.008%
137	5.961	5.937	5.979	VV	734	11472	0.38%	0.008%
138	5.985	5.979	6.018	VV	462	7468	0.25%	0.005%
139	6.029	6.018	6.043	VV	342	4114	0.14%	0.003%
140	6.057	6.043	6.075	VV	472	6442	0.21%	0.004%
141	6.104	6.075	6.128	VV	655	13633	0.45%	0.009%

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142	6.130	6.128	6.145	VV	331	3242	0.11%	0.002%
143	6.160	6.145	6.178	VV	399	6667	0.22%	0.004%
144	6.200	6.178	6.219	VV	419	7236	0.24%	0.005%
145	6.235	6.219	6.240	VV	254	2474	0.08%	0.002%
146	6.252	6.240	6.268	VV	347	4927	0.16%	0.003%
147	6.286	6.268	6.336	VV	2003	31703	1.05%	0.021%
148	6.347	6.336	6.357	VV	360	3736	0.12%	0.002%
149	6.363	6.357	6.369	VV	296	1850	0.06%	0.001%
150	6.388	6.369	6.422	VV	702	14096	0.47%	0.009%
151	6.441	6.422	6.454	VV	468	6809	0.23%	0.005%
152	6.465	6.454	6.492	VV	637	8807	0.29%	0.006%
153	6.523	6.492	6.543	VV	395	8966	0.30%	0.006%
154	6.546	6.543	6.563	VV	284	2436	0.08%	0.002%
155	6.587	6.563	6.623	VV	1530	21978	0.73%	0.015%
156	6.635	6.623	6.658	VV	397	6392	0.21%	0.004%
157	6.662	6.658	6.669	VV	222	1393	0.05%	0.001%
158	6.681	6.669	6.710	VV	221	3458	0.12%	0.002%
159	6.715	6.710	6.725	VV	79	486	0.02%	0.000%
160	6.748	6.725	6.760	VV	388	4727	0.16%	0.003%
161	6.767	6.760	6.779	VV	349	2984	0.10%	0.002%
162	6.795	6.779	6.805	VV	229	2833	0.09%	0.002%
163	6.827	6.805	6.853	VV	3562	35818	1.19%	0.024%
164	6.856	6.853	6.870	VV	207	1618	0.05%	0.001%
165	6.880	6.870	6.886	VV	262	2162	0.07%	0.001%
166	6.902	6.886	6.930	VV	417	6980	0.23%	0.005%
167	6.933	6.930	6.945	VV	239	1746	0.06%	0.001%
168	6.946	6.945	6.962	VV	205	1314	0.04%	0.001%
169	6.977	6.962	6.992	VV	109	1034	0.03%	0.001%
170	7.013	6.992	7.018	PV	192	1993	0.07%	0.001%
171	7.032	7.018	7.052	VV	339	4492	0.15%	0.003%
172	7.072	7.052	7.084	VV	277	3754	0.12%	0.003%
173	7.097	7.084	7.103	VV	178	1612	0.05%	0.001%
174	7.107	7.103	7.117	VV	176	1128	0.04%	0.001%
175	7.128	7.117	7.150	VV	193	3122	0.10%	0.002%
176	7.154	7.150	7.172	VV	188	1764	0.06%	0.001%
177	7.194	7.172	7.204	VV	207	2974	0.10%	0.002%
178	7.227	7.204	7.242	VV	1055	14535	0.48%	0.010%
179	7.252	7.242	7.272	VV	830	11136	0.37%	0.007%
180	7.280	7.272	7.301	VV	498	6872	0.23%	0.005%
181	7.305	7.301	7.311	VV	351	1946	0.06%	0.001%
182	7.326	7.311	7.356	VV	445	8400	0.28%	0.006%
183	7.380	7.356	7.413	VV	791	12653	0.42%	0.008%
184	7.432	7.413	7.456	VV	547	8941	0.30%	0.006%
185	7.470	7.456	7.505	VV	429	6907	0.23%	0.005%
186	7.519	7.505	7.545	VV	556	6756	0.22%	0.005%
187	7.564	7.545	7.584	VV	980	11945	0.40%	0.008%
188	7.592	7.584	7.625	VV	404	4959	0.17%	0.003%
189	7.643	7.625	7.668	PV	310	4104	0.14%	0.003%
190	7.696	7.668	7.714	VV	547	8254	0.27%	0.006%
191	7.720	7.714	7.744	VV	256	3497	0.12%	0.002%
192	7.763	7.744	7.793	VV	348	6690	0.22%	0.004%
193	7.819	7.793	7.854	VV	353	8112	0.27%	0.005%
194	7.861	7.854	7.872	VV	233	2407	0.08%	0.002%

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195	7.877	7.872	7.897	VV	237	1679	0.06%	0.001%
196	7.901	7.897	7.905	VV	86	244	0.01%	0.000%
197	7.922	7.905	7.946	VV	220	2680	0.09%	0.002%
198	7.950	7.946	7.963	VV	114	505	0.02%	0.000%
199	7.987	7.963	8.024	PV	486	7308	0.24%	0.005%
200	8.041	8.024	8.059	VV	252	3222	0.11%	0.002%
201	8.065	8.059	8.091	VV	219	2527	0.08%	0.002%
202	8.122	8.091	8.141	VV	1092	20787	0.69%	0.014%
203	8.154	8.141	8.171	VV	722	9283	0.31%	0.006%
204	8.181	8.171	8.208	VV	310	4148	0.14%	0.003%
205	8.230	8.208	8.251	VV	276	3732	0.12%	0.002%
206	8.277	8.251	8.292	PV	278	4274	0.14%	0.003%
207	8.302	8.292	8.307	VV	277	2259	0.08%	0.002%
208	8.312	8.307	8.318	VV	247	1389	0.05%	0.001%
209	8.323	8.318	8.335	VV	235	1633	0.05%	0.001%
210	8.354	8.335	8.366	VV	362	4678	0.16%	0.003%
211	8.397	8.366	8.427	VV	565	12157	0.40%	0.008%
212	8.470	8.427	8.488	VV	1590	25263	0.84%	0.017%
213	8.496	8.488	8.513	VV	800	9232	0.31%	0.006%
214	8.525	8.513	8.537	VV	478	5981	0.20%	0.004%
215	8.556	8.537	8.562	VV	669	7875	0.26%	0.005%
216	8.580	8.562	8.614	VV	1788	27491	0.91%	0.018%
217	8.618	8.614	8.622	VV	301	1231	0.04%	0.001%
218	8.645	8.622	8.661	VV	386	7140	0.24%	0.005%
219	8.685	8.661	8.712	VV	2216	33442	1.11%	0.022%
220	8.720	8.712	8.726	VV	622	5026	0.17%	0.003%
221	8.735	8.726	8.767	VV	651	11451	0.38%	0.008%
222	8.775	8.767	8.791	VV	428	4166	0.14%	0.003%
223	8.796	8.791	8.834	VV	549	5817	0.19%	0.004%
224	8.840	8.834	8.844	VV	130	617	0.02%	0.000%
225	8.853	8.844	8.858	VV	171	1290	0.04%	0.001%
226	8.871	8.858	8.901	VV	365	6628	0.22%	0.004%
227	8.910	8.901	8.915	VV	311	2398	0.08%	0.002%
228	8.919	8.915	8.922	VV	343	1391	0.05%	0.001%
229	8.942	8.922	8.966	VV	1120	17132	0.57%	0.011%
230	8.981	8.966	9.002	VV	949	12612	0.42%	0.008%
231	9.051	9.002	9.071	VV	1147	26018	0.87%	0.017%
232	9.077	9.071	9.095	VV	711	8407	0.28%	0.006%
233	9.120	9.095	9.159	VV	790	18838	0.63%	0.013%
234	9.174	9.159	9.192	VV	384	6310	0.21%	0.004%
235	9.207	9.192	9.220	VV	657	8694	0.29%	0.006%
236	9.229	9.220	9.245	VV	496	5532	0.18%	0.004%
237	9.257	9.245	9.285	VV	550	8309	0.28%	0.006%
238	9.321	9.285	9.363	VV	1544	29585	0.98%	0.020%
239	9.406	9.363	9.424	VV	1510	22200	0.74%	0.015%
240	9.434	9.424	9.449	VV	571	6722	0.22%	0.004%
241	9.453	9.449	9.462	VV	331	2283	0.08%	0.002%
242	9.467	9.462	9.477	VV	285	2202	0.07%	0.001%
243	9.494	9.477	9.525	VV	330	5167	0.17%	0.003%
244	9.551	9.525	9.570	PV	428	5980	0.20%	0.004%
245	9.583	9.570	9.594	VV	379	4168	0.14%	0.003%
246	9.606	9.594	9.623	VV	406	5519	0.18%	0.004%

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247	9.634	9.623	9.665	VV	471	6047	0.20%	0.004%
248	9.670	9.665	9.676	VV	129	662	0.02%	0.000%
249	9.693	9.676	9.707	VV	317	4017	0.13%	0.003%
250	9.730	9.707	9.757	VV	3282	42364	1.41%	0.028%
251	9.772	9.757	9.814	VV	1376	28725	0.96%	0.019%
252	9.823	9.814	9.838	VV	417	5278	0.18%	0.004%
253	9.854	9.838	9.899	VV	662	16220	0.54%	0.011%
254	9.919	9.899	9.937	VV	668	10133	0.34%	0.007%
255	9.974	9.937	9.996	VV	414	10758	0.36%	0.007%
256	10.053	9.996	10.084	VV	73649	776435	25.84%	0.519%
257	10.124	10.084	10.142	VV	1669	30675	1.02%	0.020%
258	10.161	10.142	10.172	VV	495	8162	0.27%	0.005%
259	10.191	10.172	10.250	VV	1680	31931	1.06%	0.021%
260	10.269	10.250	10.276	VV	375	4317	0.14%	0.003%
261	10.294	10.276	10.321	VV	605	8814	0.29%	0.006%
262	10.325	10.321	10.338	VV	126	601	0.02%	0.000%
263	10.360	10.338	10.385	PV	270	4545	0.15%	0.003%
264	10.399	10.385	10.417	VV	273	3142	0.10%	0.002%
265	10.434	10.417	10.444	PV	175	1745	0.06%	0.001%
266	10.485	10.444	10.502	VV	699	10413	0.35%	0.007%
267	10.528	10.502	10.556	VV	1334	19263	0.64%	0.013%
268	10.577	10.556	10.596	VV	652	9359	0.31%	0.006%
269	10.617	10.596	10.621	VV	691	7822	0.26%	0.005%
270	10.630	10.621	10.643	VV	772	8948	0.30%	0.006%
271	10.656	10.643	10.683	VV	756	12821	0.43%	0.009%
272	10.710	10.683	10.713	VV	393	5965	0.20%	0.004%
273	10.717	10.713	10.721	VV	398	1664	0.06%	0.001%
274	10.727	10.721	10.757	VV	413	6972	0.23%	0.005%
275	10.773	10.757	10.800	VV	872	13419	0.45%	0.009%
276	10.829	10.800	10.851	VV	1135	22281	0.74%	0.015%
277	10.855	10.851	10.865	VV	636	5167	0.17%	0.003%
278	10.883	10.865	10.900	VV	1697	21636	0.72%	0.014%
279	10.930	10.900	10.962	VV	1318	29740	0.99%	0.020%
280	10.985	10.962	10.990	VV	988	12406	0.41%	0.008%
281	11.003	10.990	11.019	VV	969	14230	0.47%	0.010%
282	11.029	11.019	11.042	VV	643	7749	0.26%	0.005%
283	11.048	11.042	11.053	VV	514	3190	0.11%	0.002%
284	11.057	11.053	11.085	VV	513	8028	0.27%	0.005%
285	11.096	11.085	11.111	VV	304	3414	0.11%	0.002%
286	11.178	11.111	11.195	VV	12226	148540	4.94%	0.099%
287	11.201	11.195	11.232	VV	3300	39331	1.31%	0.026%
288	11.253	11.232	11.280	VV	4002	48756	1.62%	0.033%
289	11.293	11.280	11.298	VV	559	5751	0.19%	0.004%
290	11.305	11.298	11.339	VV	571	10249	0.34%	0.007%
291	11.366	11.339	11.395	VV	391	8410	0.28%	0.006%
292	11.400	11.395	11.407	VV	207	1190	0.04%	0.001%
293	11.414	11.407	11.420	VV	200	1249	0.04%	0.001%
294	11.465	11.420	11.484	VV	1854	27180	0.90%	0.018%
295	11.488	11.484	11.514	VV	567	5867	0.20%	0.004%
296	11.542	11.514	11.551	PV	383	4904	0.16%	0.003%
297	11.570	11.551	11.583	VV	746	10138	0.34%	0.007%
298	11.605	11.583	11.620	VV	1250	18880	0.63%	0.013%
299	11.646	11.620	11.681	VV	1748	37187	1.24%	0.025%

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300	11.705	11.681	11.751	VV	1828	39458	1.31%	0.026%
301	11.787	11.751	11.808	VV	392	7516	0.25%	0.005%
302	11.831	11.808	11.853	VV	969	12811	0.43%	0.009%
303	11.889	11.853	11.916	VV	3328	49248	1.64%	0.033%
304	11.927	11.916	11.931	VV	377	3000	0.10%	0.002%
305	11.944	11.931	11.950	VV	430	4294	0.14%	0.003%
306	11.954	11.950	11.961	VV	367	2192	0.07%	0.001%
307	11.983	11.961	11.997	VV	2271	25505	0.85%	0.017%
308	12.014	11.997	12.036	VV	2980	32722	1.09%	0.022%
309	12.057	12.036	12.067	VV	750	10095	0.34%	0.007%
310	12.098	12.067	12.115	VV	2851	47264	1.57%	0.032%
311	12.131	12.115	12.147	VV	2081	26731	0.89%	0.018%
312	12.161	12.147	12.192	VV	2499	30786	1.02%	0.021%
313	12.200	12.192	12.218	VV	163	1553	0.05%	0.001%
314	12.239	12.218	12.262	PV	323	5251	0.17%	0.004%
315	12.309	12.262	12.318	VV	1432	29068	0.97%	0.019%
316	12.335	12.318	12.362	VV	2675	34913	1.16%	0.023%
317	12.398	12.362	12.437	VV	2797	43393	1.44%	0.029%
318	12.459	12.437	12.496	VV	2304	30610	1.02%	0.020%
319	12.560	12.496	12.621	PV	153076	2078191	69.15%	1.388%
320	12.634	12.621	12.650	VV	1580	22288	0.74%	0.015%
321	12.665	12.650	12.699	VV	1077	23732	0.79%	0.016%
322	12.712	12.699	12.717	VV	638	6548	0.22%	0.004%
323	12.728	12.717	12.753	VV	901	9928	0.33%	0.007%
324	12.775	12.753	12.785	VV	1057	11287	0.38%	0.008%
325	12.794	12.785	12.814	VV	1017	12361	0.41%	0.008%
326	12.834	12.814	12.865	VV	1806	31706	1.05%	0.021%
327	12.886	12.865	12.906	VV	3140	43680	1.45%	0.029%
328	12.919	12.906	12.929	VV	1261	15209	0.51%	0.010%
329	12.946	12.929	12.972	VV	2725	40128	1.34%	0.027%
330	12.999	12.972	13.043	VV	32293	387627	12.90%	0.259%
331	13.062	13.043	13.077	VV	759	10499	0.35%	0.007%
332	13.080	13.077	13.084	VV	605	2262	0.08%	0.002%
333	13.090	13.084	13.116	VV	545	5553	0.18%	0.004%
334	13.137	13.116	13.158	VV	1012	12821	0.43%	0.009%
335	13.182	13.158	13.227	VV	4527	84354	2.81%	0.056%
336	13.242	13.227	13.270	VV	1113	14358	0.48%	0.010%
337	13.298	13.270	13.327	PV	26628	310781	10.34%	0.208%
338	13.356	13.327	13.372	VV	3286	46365	1.54%	0.031%
339	13.388	13.372	13.419	VV	2607	36956	1.23%	0.025%
340	13.437	13.419	13.450	VV	534	7199	0.24%	0.005%
341	13.472	13.450	13.481	VV	1402	15941	0.53%	0.011%
342	13.486	13.481	13.492	VV	1230	7630	0.25%	0.005%
343	13.502	13.492	13.529	VV	1350	19319	0.64%	0.013%
344	13.570	13.529	13.599	PV	8035	133418	4.44%	0.089%
345	13.624	13.599	13.671	VV	6303	147969	4.92%	0.099%
346	13.697	13.671	13.715	VV	2268	39465	1.31%	0.026%
347	13.727	13.715	13.737	VV	1513	17033	0.57%	0.011%
348	13.787	13.737	13.852	VV	53967	754899	25.12%	0.504%
349	13.887	13.852	13.917	VV	5574	102012	3.39%	0.068%
350	13.938	13.917	13.945	PV	1021	10184	0.34%	0.007%
351	13.966	13.945	13.975	VV	1146	17089	0.57%	0.011%

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352	13.998	13.975	14.020	VV	3491	54509	1.81%	0.036%
353	14.036	14.020	14.057	VV	3438	44086	1.47%	0.029%
354	14.079	14.057	14.090	VV	2018	31706	1.05%	0.021%
355	14.095	14.090	14.112	VV	2098	20305	0.68%	0.014%
356	14.116	14.112	14.122	VV	832	4878	0.16%	0.003%
357	14.164	14.122	14.189	VV	5810	124557	4.14%	0.083%
358	14.205	14.189	14.232	VV	3090	36710	1.22%	0.025%
359	14.279	14.232	14.296	VV	1845	38143	1.27%	0.025%
360	14.303	14.296	14.312	VV	907	7734	0.26%	0.005%
361	14.318	14.312	14.328	VV	810	5321	0.18%	0.004%
362	14.373	14.328	14.381	VV	1586	34373	1.14%	0.023%
363	14.397	14.381	14.416	VV	1434	20972	0.70%	0.014%
364	14.432	14.416	14.448	VV	671	9407	0.31%	0.006%
365	14.478	14.448	14.491	PV	772	7734	0.26%	0.005%
366	14.535	14.491	14.554	VV	5855	107235	3.57%	0.072%
367	14.568	14.554	14.598	VV	3823	83970	2.79%	0.056%
368	14.621	14.598	14.642	VV	4864	76613	2.55%	0.051%
369	14.662	14.642	14.687	VV	2674	39109	1.30%	0.026%
370	14.711	14.687	14.736	VV	4374	73563	2.45%	0.049%
371	14.743	14.736	14.751	VV	2239	17980	0.60%	0.012%
372	14.776	14.751	14.790	VV	2832	52015	1.73%	0.035%
373	14.807	14.790	14.829	VV	3985	63859	2.12%	0.043%
374	14.832	14.829	14.846	VV	1751	13691	0.46%	0.009%
375	14.867	14.846	14.887	VV	5998	69258	2.30%	0.046%
376	14.927	14.887	14.950	VV	6729	98112	3.26%	0.066%
377	14.969	14.950	14.974	VV	1365	15121	0.50%	0.010%
378	14.992	14.974	15.015	VV	2221	35470	1.18%	0.024%
379	15.049	15.015	15.087	VV	88366	1280977	42.62%	0.856%
380	15.127	15.087	15.142	PV	2488	41144	1.37%	0.027%
381	15.177	15.142	15.196	VV	16928	223329	7.43%	0.149%
382	15.218	15.196	15.240	VV	19742	236179	7.86%	0.158%
383	15.253	15.240	15.281	VV	3064	47153	1.57%	0.031%
384	15.315	15.281	15.320	VV	2536	41463	1.38%	0.028%
385	15.339	15.320	15.360	VV	4300	67288	2.24%	0.045%
386	15.382	15.360	15.397	VV	2171	31933	1.06%	0.021%
387	15.417	15.397	15.446	VV	1671	28650	0.95%	0.019%
388	15.480	15.446	15.486	PV	2819	31036	1.03%	0.021%
389	15.491	15.486	15.501	VV	2385	19147	0.64%	0.013%
390	15.523	15.501	15.536	VV	1489	27437	0.91%	0.018%
391	15.543	15.536	15.550	VV	1196	6631	0.22%	0.004%
392	15.559	15.550	15.562	VV	1114	5828	0.19%	0.004%
393	15.568	15.562	15.577	VV	1196	7138	0.24%	0.005%
394	15.636	15.577	15.717	VV	46859	897690	29.87%	0.600%
395	15.737	15.717	15.743	PV	877	8116	0.27%	0.005%
396	15.775	15.743	15.794	VV	4946	76208	2.54%	0.051%
397	15.817	15.794	15.831	VV	4374	63970	2.13%	0.043%
398	15.851	15.831	15.873	VV	8071	121543	4.04%	0.081%
399	15.892	15.873	15.899	VV	2932	31986	1.06%	0.021%
400	15.909	15.899	15.927	VV	2605	33462	1.11%	0.022%
401	15.937	15.927	15.947	VV	627	3441	0.11%	0.002%
402	15.994	15.947	16.013	PV	7053	149157	4.96%	0.100%
403	16.016	16.013	16.037	VV	4327	50635	1.68%	0.034%
404	16.047	16.037	16.070	VV	2422	27669	0.92%	0.018%

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405	16.096	16.070	16.110	PV	2026	27982	0.93%	0.019%
406	16.115	16.110	16.127	VV	897	5196	0.17%	0.003%
407	16.177	16.127	16.197	VV	3688	105028	3.49%	0.070%
408	16.206	16.197	16.226	VV	3143	42476	1.41%	0.028%
409	16.244	16.226	16.255	VV	2345	28392	0.94%	0.019%
410	16.276	16.255	16.311	VV	6271	132898	4.42%	0.089%
411	16.317	16.311	16.321	VV	2411	12418	0.41%	0.008%
412	16.336	16.321	16.347	VV	2332	31206	1.04%	0.021%
413	16.362	16.347	16.373	VV	2086	29236	0.97%	0.020%
414	16.387	16.373	16.410	VV	2094	25374	0.84%	0.017%
415	16.461	16.410	16.477	PV	5703	113023	3.76%	0.075%
416	16.491	16.477	16.507	VV	5192	66337	2.21%	0.044%
417	16.518	16.507	16.522	VV	3728	27613	0.92%	0.018%
418	16.569	16.522	16.599	VV	5854	208609	6.94%	0.139%
419	16.602	16.599	16.610	VV	4096	24718	0.82%	0.017%
420	16.616	16.610	16.622	VV	5008	32912	1.10%	0.022%
421	16.660	16.622	16.696	VV	16455	360371	11.99%	0.241%
422	16.738	16.696	16.754	VV	27667	478005	15.91%	0.319%
423	16.760	16.754	16.786	VV	17421	240861	8.01%	0.161%
424	16.789	16.786	16.794	VV	5066	22779	0.76%	0.015%
425	16.799	16.794	16.805	VV	5202	31707	1.06%	0.021%
426	16.845	16.805	16.852	VV	9168	194220	6.46%	0.130%
427	16.868	16.852	16.890	VV	12721	239687	7.98%	0.160%
428	16.923	16.890	16.943	VV	10722	280294	9.33%	0.187%
429	16.967	16.943	17.003	VV	12671	330732	11.00%	0.221%
430	17.057	17.003	17.084	VV	23717	671462	22.34%	0.449%
431	17.117	17.084	17.153	VV	24687	576184	19.17%	0.385%
432	17.197	17.153	17.203	VV	13511	319042	10.62%	0.213%
433	17.224	17.203	17.235	VV	20038	328958	10.95%	0.220%
434	17.257	17.235	17.269	VV	20562	367558	12.23%	0.246%
435	17.282	17.269	17.296	VV	18659	283340	9.43%	0.189%
436	17.299	17.296	17.316	VV	16473	187286	6.23%	0.125%
437	17.322	17.316	17.345	VV	16309	256957	8.55%	0.172%
438	17.367	17.345	17.390	VV	15542	376188	12.52%	0.251%
439	17.435	17.390	17.444	VV	18290	519570	17.29%	0.347%
440	17.477	17.444	17.497	VV	22866	606786	20.19%	0.405%
441	17.506	17.497	17.511	VV	18818	146336	4.87%	0.098%
442	17.518	17.511	17.522	VV	18948	124213	4.13%	0.083%
443	17.546	17.522	17.572	VV	22654	602728	20.06%	0.403%
444	17.618	17.572	17.635	VV	29924	910094	30.28%	0.608%
445	17.650	17.635	17.665	VV	29866	474041	15.77%	0.317%
446	17.672	17.665	17.692	VV	24064	378151	12.58%	0.253%
447	17.713	17.692	17.718	VV	24197	344118	11.45%	0.230%
448	17.727	17.718	17.747	VV	23900	386742	12.87%	0.258%
449	17.757	17.747	17.767	VV	25716	277242	9.23%	0.185%
450	17.793	17.767	17.828	VV	32052	925384	30.79%	0.618%
451	17.852	17.828	17.873	VV	27488	648309	21.57%	0.433%
452	17.883	17.873	17.895	VV	23207	287930	9.58%	0.192%
453	17.910	17.895	17.931	VV	24233	471948	15.70%	0.315%
454	17.956	17.931	17.962	VV	24581	407900	13.57%	0.272%
455	17.971	17.962	17.990	VV	23789	391332	13.02%	0.261%
456	18.017	17.990	18.022	VV	30091	510677	16.99%	0.341%

rteres

457	18.027	18.022	18.042	VV	29526	340330	11.32%	0.227%
458	18.050	18.042	18.054	VV	28657	197678	6.58%	0.132%
459	18.096	18.054	18.101	VV	36399	875425	29.13%	0.585%
460	18.116	18.101	18.142	VV	38406	848132	28.22%	0.567%
461	18.170	18.142	18.192	VV	32239	861347	28.66%	0.575%
462	18.211	18.192	18.218	VV	31235	461033	15.34%	0.308%
463	18.268	18.218	18.285	VV	65376	1708256	56.84%	1.141%
464	18.294	18.285	18.338	VV	44108	1198217	39.87%	0.800%
465	18.349	18.338	18.369	VV	33514	583741	19.42%	0.390%
466	18.373	18.369	18.378	VV	30149	156296	5.20%	0.104%
467	18.407	18.378	18.422	VV	33242	813412	27.07%	0.543%
468	18.445	18.422	18.452	VV	35380	599431	19.95%	0.400%
469	18.486	18.452	18.518	VV	75866	2095012	69.71%	1.399%
470	18.538	18.518	18.562	VV	42869	1021409	33.99%	0.682%
471	18.585	18.562	18.590	VV	36781	582723	19.39%	0.389%
472	18.636	18.590	18.661	VV	66772	2066975	68.78%	1.381%
473	18.665	18.661	18.688	VV	46697	690496	22.98%	0.461%
474	18.707	18.688	18.726	VV	37685	829164	27.59%	0.554%
475	18.747	18.726	18.769	VV	51954	1114944	37.10%	0.745%
476	18.777	18.769	18.783	VV	39075	324996	10.81%	0.217%
477	18.789	18.783	18.813	VV	39426	668878	22.26%	0.447%
478	18.836	18.813	18.853	VV	38974	890461	29.63%	0.595%
479	18.875	18.853	18.882	VV	40171	675807	22.49%	0.451%
480	18.892	18.882	18.897	VV	39019	335834	11.17%	0.224%
481	18.903	18.897	18.908	VV	39830	252889	8.41%	0.169%
482	18.945	18.908	18.990	VV	54161	2159296	71.85%	1.442%
483	18.995	18.990	18.999	VV	38471	205501	6.84%	0.137%
484	19.010	18.999	19.026	VV	42700	637791	21.22%	0.426%
485	19.060	19.026	19.083	VV	67257	1769465	58.88%	1.182%
486	19.110	19.083	19.129	VV	64545	1501912	49.98%	1.003%
487	19.133	19.129	19.147	VV	47395	491800	16.36%	0.328%
488	19.154	19.147	19.163	VV	45669	429233	14.28%	0.287%
489	19.170	19.163	19.182	VV	44134	487612	16.23%	0.326%
490	19.197	19.182	19.207	VV	49420	699311	23.27%	0.467%
491	19.230	19.207	19.243	VV	51772	1053771	35.06%	0.704%
492	19.249	19.243	19.256	VV	48006	346915	11.54%	0.232%
493	19.277	19.256	19.285	VV	50080	810381	26.96%	0.541%
494	19.315	19.285	19.342	VV	70608	2035112	67.72%	1.359%
495	19.346	19.342	19.367	VV	56498	808039	26.89%	0.540%
496	19.395	19.367	19.413	VV	62293	1542047	51.31%	1.030%
497	19.420	19.413	19.425	VV	52688	368266	12.25%	0.246%
498	19.454	19.425	19.507	VV	64766	2657763	88.44%	1.775%
499	19.526	19.507	19.536	VV	53661	885487	29.46%	0.591%
500	19.557	19.536	19.564	VV	54288	886030	29.48%	0.592%
501	19.568	19.564	19.577	VV	53920	388990	12.94%	0.260%
502	19.584	19.577	19.599	VV	55708	710534	23.64%	0.475%
503	19.610	19.599	19.619	VV	53330	620257	20.64%	0.414%
504	19.626	19.619	19.644	VV	54641	790800	26.31%	0.528%
505	19.652	19.644	19.658	VV	53745	455918	15.17%	0.305%
506	19.664	19.658	19.676	VV	53008	541564	18.02%	0.362%
507	19.679	19.676	19.684	VV	50927	248952	8.28%	0.166%
508	19.703	19.684	19.722	VV	54895	1173133	39.04%	0.784%
509	19.736	19.722	19.749	VV	57673	911403	30.33%	0.609%

rteres

510	19.770	19.749	19.797	VV	69940	1780057	59.23%	1.189%
511	19.802	19.797	19.822	VV	59834	870609	28.97%	0.582%
512	19.862	19.822	19.884	VV	68448	2282961	75.96%	1.525%
513	19.906	19.884	19.932	VV	66877	1763811	58.69%	1.178%
514	19.951	19.932	19.959	VV	62959	961561	32.00%	0.642%
515	19.967	19.959	19.971	VV	65260	447610	14.89%	0.299%
516	19.979	19.971	19.996	VV	65013	934598	31.10%	0.624%
517	20.019	19.996	20.029	VV	64741	1226014	40.79%	0.819%
518	20.032	20.029	20.041	VV	62059	433081	14.41%	0.289%
519	20.046	20.041	20.054	VV	59922	481267	16.01%	0.321%
520	20.090	20.054	20.127	VV	78185	3005313	100.00%	2.007%
521	20.133	20.127	20.138	VV	64879	446012	14.84%	0.298%
522	20.165	20.138	20.198	VV	75154	2401407	79.91%	1.604%
523	20.212	20.198	20.217	VV	63925	715270	23.80%	0.478%
524	20.235	20.217	20.244	VV	62999	986814	32.84%	0.659%
525	20.282	20.244	20.290	VV	75971	1963825	65.35%	1.312%
526	20.296	20.290	20.315	VV	74403	1034877	34.43%	0.691%
527	20.323	20.315	20.327	VV	66545	484929	16.14%	0.324%
528	20.346	20.327	20.350	VV	75114	960724	31.97%	0.642%
529	20.357	20.350	20.369	VV	75698	840639	27.97%	0.562%
530	20.393	20.369	20.424	VV	81992	2469258	82.16%	1.649%
531	20.436	20.424	20.448	VV	74339	1032496	34.36%	0.690%
532	20.457	20.448	20.465	VV	71585	696239	23.17%	0.465%
533	20.475	20.465	20.482	VV	73900	733814	24.42%	0.490%
534	20.489	20.482	20.497	VV	74991	695572	23.14%	0.465%
535	20.502	20.497	20.511	VV	69765	544902	18.13%	0.364%
536	20.526	20.511	20.530	VV	73809	801268	26.66%	0.535%
537	20.553	20.530	20.575	VV	84556	2127921	70.81%	1.421%
538	20.594	20.575	20.602	VV	73715	1151898	38.33%	0.769%
539	20.632	20.602	20.638	VV	82488	1712299	56.98%	1.144%
540	20.641	20.638	20.663	VV	82633	1126296	37.48%	0.752%
541	20.688	20.663	20.704	VV	86181	1991579	66.27%	1.330%
542	20.706	20.704	20.712	VV	80206	359256	11.95%	0.240%
543	20.719	20.712	20.738	VV	78698	1204631	40.08%	0.805%
544	20.741	20.738	20.758	VV	76003	872120	29.02%	0.583%
545	20.762	20.758	20.768	VV	71490	401476	13.36%	0.268%
546	20.776	20.768	20.795	VV	73320	1158657	38.55%	0.774%
547	20.801	20.795	20.809	VV	70179	577729	19.22%	0.386%
548	20.834	20.809	20.856	VV	75717	2008755	66.84%	1.342%
549	20.862	20.856	20.872	VV	71195	632817	21.06%	0.423%
550	20.880	20.872	20.887	VV	69952	656327	21.84%	0.438%
551	20.894	20.887	20.918	VV	71915	1257549	41.84%	0.840%
552	20.930	20.918	20.935	VV	66642	646957	21.53%	0.432%
553	20.946	20.935	20.955	VV	68525	792991	26.39%	0.530%
554	20.962	20.955	20.984	VV	68925	1169848	38.93%	0.781%
555	20.991	20.984	21.005	VV	63113	762750	25.38%	0.509%
556	21.011	21.005	21.019	VV	64127	513285	17.08%	0.343%
557	21.026	21.019	21.033	VV	59385	491998	16.37%	0.329%
558	21.041	21.033	21.048	VV	59527	518868	17.27%	0.347%
559	21.069	21.048	21.094	VV	62261	1608268	53.51%	1.074%
560	21.116	21.094	21.126	VV	57983	1065268	35.45%	0.712%
561	21.129	21.126	21.150	VV	58151	780516	25.97%	0.521%

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562	21.162	21.150	21.170	VV	55184	632810	21.06%	0.423%
563	21.177	21.170	21.186	VV	55047	515372	17.15%	0.344%
564	21.194	21.186	21.200	VV	54203	450596	14.99%	0.301%
565	21.229	21.200	21.237	VV	57129	1198493	39.88%	0.801%
566	21.242	21.237	21.253	VV	52525	487454	16.22%	0.326%
567	21.258	21.253	21.274	VV	48876	590182	19.64%	0.394%
568	21.281	21.274	21.287	VV	49566	355134	11.82%	0.237%
569	21.291	21.287	21.302	VV	49014	429586	14.29%	0.287%
570	21.310	21.302	21.335	VV	47213	887253	29.52%	0.593%
571	21.344	21.335	21.349	VV	43736	366098	12.18%	0.245%
572	21.357	21.349	21.365	VV	43752	396315	13.19%	0.265%
573	21.378	21.365	21.384	VV	44713	504649	16.79%	0.337%
574	21.399	21.384	21.418	VV	47896	872527	29.03%	0.583%
575	21.448	21.418	21.477	VV	44196	1415417	47.10%	0.945%
576	21.485	21.477	21.496	VV	40862	430726	14.33%	0.288%
577	21.500	21.496	21.515	VV	40996	432434	14.39%	0.289%
578	21.530	21.515	21.575	VV	38663	1289162	42.90%	0.861%
579	21.611	21.575	21.617	VV	35218	823697	27.41%	0.550%
580	21.627	21.617	21.642	VV	34418	488440	16.25%	0.326%
581	21.647	21.642	21.655	VV	32655	229429	7.63%	0.153%
582	21.669	21.655	21.676	VV	38267	445109	14.81%	0.297%
583	21.685	21.676	21.716	VV	39126	803253	26.73%	0.537%
584	21.723	21.716	21.739	VV	29498	385871	12.84%	0.258%
585	21.747	21.739	21.761	VV	29117	356113	11.85%	0.238%
586	21.772	21.761	21.781	VV	26875	308189	10.25%	0.206%
587	21.788	21.781	21.800	VV	25781	275337	9.16%	0.184%
588	21.806	21.800	21.816	VV	25260	237666	7.91%	0.159%
589	21.823	21.816	21.843	VV	24313	358910	11.94%	0.240%
590	21.854	21.843	21.869	VV	23092	320201	10.65%	0.214%
591	21.878	21.869	21.889	VV	22529	245374	8.16%	0.164%
592	21.897	21.889	21.919	VV	23688	344906	11.48%	0.230%
593	21.923	21.919	21.936	VV	18476	181879	6.05%	0.121%
594	21.943	21.936	21.947	VV	18258	101137	3.37%	0.068%
595	21.954	21.947	21.962	VV	19314	159032	5.29%	0.106%
596	21.971	21.962	21.985	VV	18196	232727	7.74%	0.155%
597	22.011	21.985	22.022	VV	18363	351014	11.68%	0.234%
598	22.033	22.022	22.052	VV	14712	234312	7.80%	0.157%
599	22.059	22.052	22.073	VV	14359	143315	4.77%	0.096%
600	22.106	22.073	22.126	VV	14106	363924	12.11%	0.243%
601	22.184	22.126	22.224	VV	17044	614859	20.46%	0.411%
602	22.240	22.224	22.248	VV	8092	81495	2.71%	0.054%
603	22.259	22.248	22.272	VV	7367	80302	2.67%	0.054%
604	22.277	22.272	22.288	VV	3845	24041	0.80%	0.016%
605	22.296	22.288	22.300	PBA	1969	43608	1.45%	0.029%

Sum of corrected areas: 149711751

FG102124.M Mon Nov 04 03:04:11 2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG110124\
Data File : FG014622.D
Signal(s) : FID1A.ch
Acq On : 01 Nov 2024 15:12
Operator : YP\AJ
Sample : P4663-04
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
RES-BUILDING-PAD-NO-11

Integration File: autoint1.e
Quant Time: Nov 04 01:30:30 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG102124.M
Quant Title :
QLast Update : Mon Oct 21 17:03:32 2024
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...	15.053	1591735	13.308 ug/ml
Target Compounds			

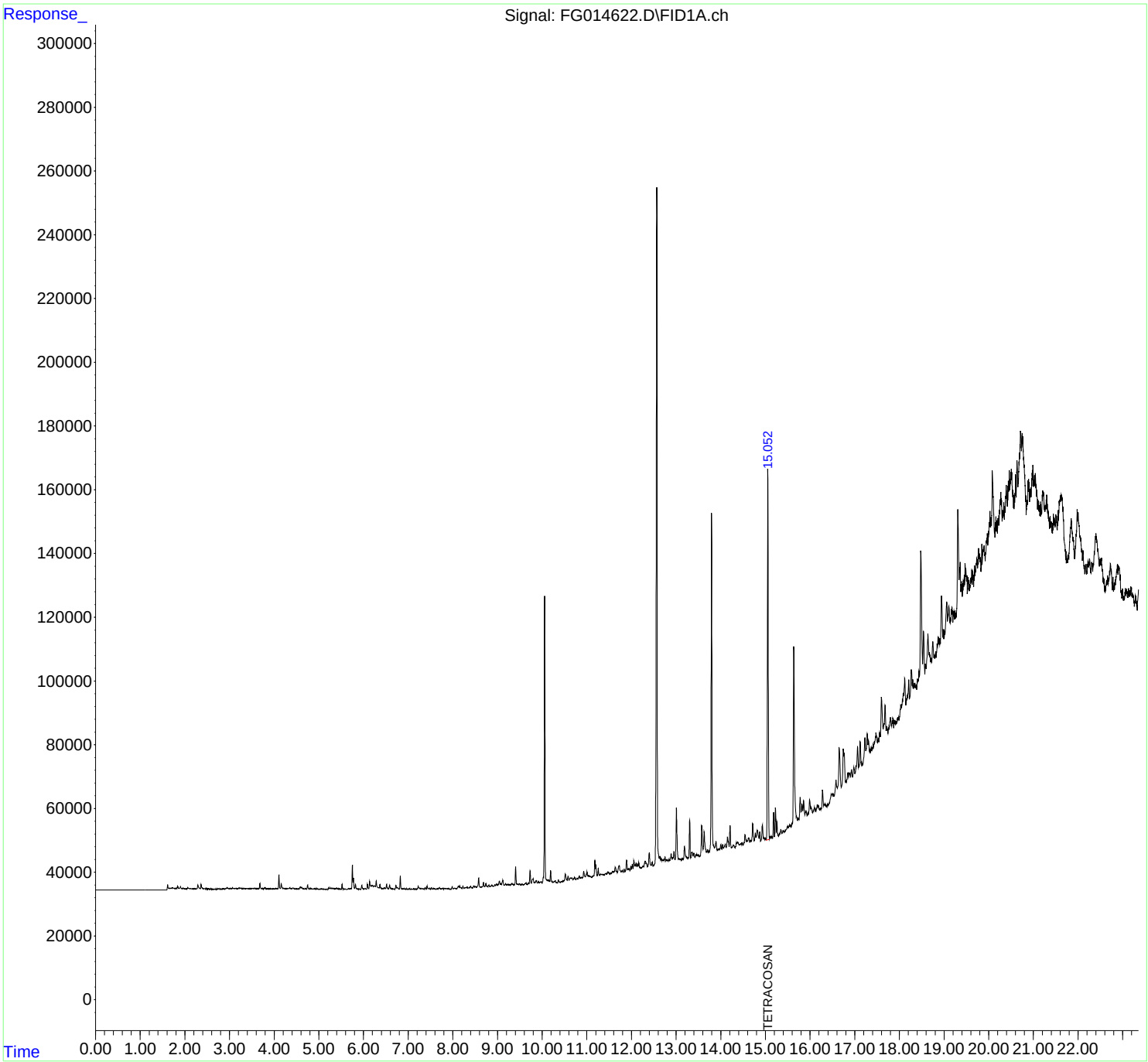
(f)=RT Delta > 1/2 Window (m)=manual int.

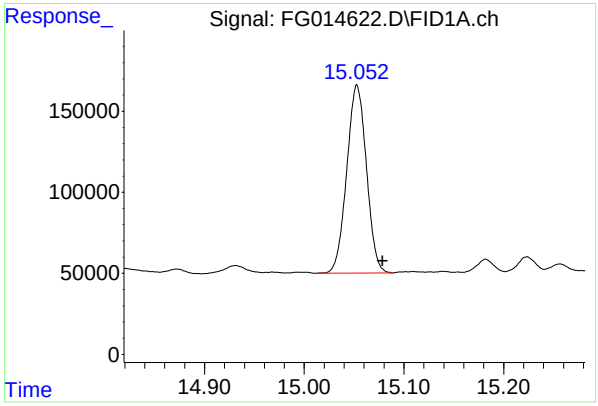
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG110124\
Data File : FG014622.D
Signal(s) : FID1A.ch
Acq On : 01 Nov 2024 15:12
Operator : YP\AJ
Sample : P4663-04
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
RES-BUILDING-PAD-NO-11

Integration File: autoint1.e
Quant Time: Nov 04 01:30:30 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG102124.M
Quant Title :
QLast Update : Mon Oct 21 17:03:32 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal Phase : Rxi-1ms
Signal Info : 20mx0.18mmx0.18um





#9 TETRACOSANE-d50 (SURROGATE)

R.T.: 15.053 min
Delta R.T.: -0.026 mi
Response: 1591735
Conc: 13.31 ug/m

Instrument :
FID_G
ClientSampleId :
RES-BUILDING-PAD-NO-11

10

A B C D E F G H I J

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG110124\
Data File : FG014622.D
Signal(s) : FID1A.ch
Acq On : 01 Nov 2024 15:12
Sample : P4663-04
Misc :
ALS Vial : 22 Sample Multiplier: 1

Integration File: Sample.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG102124.M
Title :

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	1.936	1.918	1.943	BV	38	-125	-0.00%	-0.000%
2	1.959	1.943	1.993	PV	174	2758	0.09%	0.003%
3	1.997	1.993	2.021	VV	112	686	0.02%	0.001%
4	2.024	2.021	2.029	PV	81	274	0.01%	0.000%
5	2.063	2.029	2.107	VV	387	8565	0.29%	0.009%
6	2.116	2.107	2.128	VV	183	1546	0.05%	0.002%
7	2.136	2.128	2.150	VV	160	1545	0.05%	0.002%
8	2.157	2.150	2.164	VV	95	633	0.02%	0.001%
9	2.175	2.164	2.180	VV	106	811	0.03%	0.001%
10	2.184	2.180	2.204	VV	133	1036	0.03%	0.001%
11	2.216	2.204	2.226	VV	146	1314	0.04%	0.001%
12	2.234	2.226	2.238	VV	102	669	0.02%	0.001%
13	2.243	2.238	2.249	VV	109	571	0.02%	0.001%
14	2.261	2.249	2.277	VV	137	1977	0.07%	0.002%
15	2.290	2.277	2.351	VV	1359	25035	0.84%	0.026%
16	2.363	2.351	2.419	VV	1537	23352	0.79%	0.024%
17	2.423	2.419	2.438	VV	219	1830	0.06%	0.002%
18	2.444	2.438	2.462	VV	228	2625	0.09%	0.003%
19	2.474	2.462	2.495	VV	200	2446	0.08%	0.003%
20	2.504	2.495	2.519	VV	149	1294	0.04%	0.001%
21	2.526	2.519	2.544	VV	117	1258	0.04%	0.001%
22	2.554	2.544	2.570	VV	142	1437	0.05%	0.001%
23	2.591	2.570	2.599	VV	151	1258	0.04%	0.001%
24	2.605	2.599	2.619	VV	108	979	0.03%	0.001%
25	2.623	2.619	2.652	VV	94	1317	0.04%	0.001%
26	2.662	2.652	2.669	PV	97	596	0.02%	0.001%
27	2.675	2.669	2.701	VV	98	1416	0.05%	0.001%
28	2.716	2.701	2.732	PV	167	1690	0.06%	0.002%
29	2.760	2.732	2.788	VV	234	5294	0.18%	0.005%
30	2.819	2.788	2.824	VV	144	2279	0.08%	0.002%
31	2.827	2.824	2.831	VV	135	421	0.01%	0.000%
32	2.837	2.831	2.842	VV	150	820	0.03%	0.001%
33	2.853	2.842	2.860	VV	212	1608	0.05%	0.002%
34	2.869	2.860	2.887	VV	169	2242	0.08%	0.002%
35	2.936	2.887	2.952	VV	416	10053	0.34%	0.010%
36	2.957	2.952	2.994	VV	391	7016	0.24%	0.007%

rteres

37	3.008	2.994	3.040	VV	333	7175	0.24%	0.007%
38	3.043	3.040	3.047	VV	265	901	0.03%	0.001%
39	3.066	3.047	3.089	VV	469	7595	0.26%	0.008%
40	3.105	3.089	3.117	VV	344	4848	0.16%	0.005%
41	3.123	3.117	3.128	VV	291	1869	0.06%	0.002%
42	3.134	3.128	3.144	VV	320	2804	0.09%	0.003%
43	3.147	3.144	3.155	VV	338	1932	0.07%	0.002%
44	3.158	3.155	3.171	VV	304	2440	0.08%	0.003%
45	3.176	3.171	3.187	VV	292	2582	0.09%	0.003%
46	3.209	3.187	3.228	VV	503	8889	0.30%	0.009%
47	3.239	3.228	3.271	VV	416	8675	0.29%	0.009%
48	3.275	3.271	3.286	VV	330	2363	0.08%	0.002%
49	3.290	3.286	3.298	VV	273	1819	0.06%	0.002%
50	3.304	3.298	3.312	VV	298	2242	0.08%	0.002%
51	3.325	3.312	3.344	VV	352	5479	0.18%	0.006%
52	3.349	3.344	3.354	VV	273	1560	0.05%	0.002%
53	3.364	3.354	3.373	VV	318	3115	0.11%	0.003%
54	3.378	3.373	3.387	VV	278	2123	0.07%	0.002%
55	3.393	3.387	3.403	VV	301	2427	0.08%	0.003%
56	3.412	3.403	3.425	VV	278	3101	0.10%	0.003%
57	3.437	3.425	3.447	VV	240	2818	0.09%	0.003%
58	3.458	3.447	3.463	VV	278	2161	0.07%	0.002%
59	3.510	3.463	3.531	VV	332	11079	0.37%	0.011%
60	3.540	3.531	3.554	VV	330	3903	0.13%	0.004%
61	3.567	3.554	3.592	VV	343	6241	0.21%	0.006%
62	3.597	3.592	3.605	VV	264	1755	0.06%	0.002%
63	3.616	3.605	3.623	VV	264	2368	0.08%	0.002%
64	3.639	3.623	3.654	VV	331	4789	0.16%	0.005%
65	3.679	3.654	3.715	VV	1882	25888	0.87%	0.027%
66	3.733	3.715	3.746	VV	292	4447	0.15%	0.005%
67	3.789	3.746	3.830	VV	574	16599	0.56%	0.017%
68	3.834	3.830	3.839	VV	212	1005	0.03%	0.001%
69	3.854	3.839	3.860	VV	292	2844	0.10%	0.003%
70	3.863	3.860	3.877	VV	272	2031	0.07%	0.002%
71	3.907	3.877	3.922	VV	269	5571	0.19%	0.006%
72	3.926	3.922	3.931	VV	233	1088	0.04%	0.001%
73	3.943	3.931	3.957	VV	214	2816	0.09%	0.003%
74	3.964	3.957	3.968	VV	223	1184	0.04%	0.001%
75	3.974	3.968	3.983	VV	245	1663	0.06%	0.002%
76	3.993	3.983	3.998	VV	202	1621	0.05%	0.002%
77	4.016	3.998	4.024	VV	226	2969	0.10%	0.003%
78	4.040	4.024	4.066	VV	363	6725	0.23%	0.007%
79	4.076	4.066	4.083	VV	277	2168	0.07%	0.002%
80	4.107	4.083	4.138	VV	4647	48614	1.64%	0.050%
81	4.159	4.138	4.207	VV	1775	30547	1.03%	0.032%
82	4.227	4.207	4.260	VV	417	9847	0.33%	0.010%
83	4.264	4.260	4.272	VV	297	1799	0.06%	0.002%
84	4.286	4.272	4.294	VV	311	3610	0.12%	0.004%
85	4.307	4.294	4.312	VV	322	3316	0.11%	0.003%
86	4.318	4.312	4.331	VV	331	3294	0.11%	0.003%
87	4.348	4.331	4.367	VV	589	8760	0.30%	0.009%
88	4.372	4.367	4.379	VV	291	1981	0.07%	0.002%
89	4.419	4.379	4.458	VV	576	16104	0.54%	0.017%

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90	4.479	4.458	4.496	VV	263	4997	0.17%	0.005%
91	4.510	4.496	4.518	VV	241	2551	0.09%	0.003%
92	4.523	4.518	4.528	VV	231	1169	0.04%	0.001%
93	4.534	4.528	4.543	VV	223	1781	0.06%	0.002%
94	4.551	4.543	4.560	VV	237	2189	0.07%	0.002%
95	4.579	4.560	4.586	VV	786	8680	0.29%	0.009%
96	4.596	4.586	4.611	VV	887	10249	0.35%	0.011%
97	4.620	4.611	4.647	VV	607	8988	0.30%	0.009%
98	4.652	4.647	4.657	VV	290	1666	0.06%	0.002%
99	4.662	4.657	4.668	VV	292	1630	0.05%	0.002%
100	4.673	4.668	4.687	VV	262	2552	0.09%	0.003%
101	4.700	4.687	4.727	VV	279	5258	0.18%	0.005%
102	4.749	4.727	4.792	VV	1521	21517	0.73%	0.022%
103	4.809	4.792	4.819	VV	401	5062	0.17%	0.005%
104	4.825	4.819	4.850	VV	323	4353	0.15%	0.004%
105	4.864	4.850	4.870	VV	204	2055	0.07%	0.002%
106	4.877	4.870	4.884	VV	217	1693	0.06%	0.002%
107	4.894	4.884	4.911	VV	249	3592	0.12%	0.004%
108	4.919	4.911	4.925	VV	220	1664	0.06%	0.002%
109	4.929	4.925	4.933	VV	156	708	0.02%	0.001%
110	4.951	4.933	4.975	VV	396	6091	0.21%	0.006%
111	4.982	4.975	4.994	VV	196	1983	0.07%	0.002%
112	4.998	4.994	5.009	VV	189	1464	0.05%	0.002%
113	5.013	5.009	5.017	VV	178	671	0.02%	0.001%
114	5.025	5.017	5.042	VV	193	2326	0.08%	0.002%
115	5.059	5.042	5.072	VV	267	3635	0.12%	0.004%
116	5.077	5.072	5.090	VV	184	1537	0.05%	0.002%
117	5.095	5.090	5.102	VV	132	858	0.03%	0.001%
118	5.107	5.102	5.124	VV	157	1364	0.05%	0.001%
119	5.135	5.124	5.155	VV	141	1434	0.05%	0.001%
120	5.166	5.155	5.182	VV	129	1471	0.05%	0.002%
121	5.188	5.182	5.207	VV	148	1648	0.06%	0.002%
122	5.238	5.207	5.257	VV	533	10073	0.34%	0.010%
123	5.272	5.257	5.287	VV	553	7645	0.26%	0.008%
124	5.294	5.287	5.315	VV	418	5949	0.20%	0.006%
125	5.322	5.315	5.333	VV	381	3518	0.12%	0.004%
126	5.336	5.333	5.358	VV	308	3747	0.13%	0.004%
127	5.369	5.358	5.384	VV	216	2912	0.10%	0.003%
128	5.398	5.384	5.422	VV	566	7806	0.26%	0.008%
129	5.426	5.422	5.430	VV	224	970	0.03%	0.001%
130	5.435	5.430	5.447	VV	238	1908	0.06%	0.002%
131	5.453	5.447	5.458	VV	221	1129	0.04%	0.001%
132	5.470	5.458	5.492	VV	217	3351	0.11%	0.003%
133	5.521	5.492	5.548	VV	1737	20528	0.69%	0.021%
134	5.556	5.548	5.577	VV	235	2657	0.09%	0.003%
135	5.592	5.577	5.622	VV	214	2978	0.10%	0.003%
136	5.625	5.622	5.635	PV	45	199	0.01%	0.000%
137	5.674	5.635	5.688	VV	295	6671	0.22%	0.007%
138	5.717	5.688	5.725	VV	396	6548	0.22%	0.007%
139	5.752	5.725	5.767	VV	7717	78884	2.66%	0.082%
140	5.776	5.767	5.803	VV	3682	38045	1.28%	0.039%
141	5.822	5.803	5.883	VV	1685	25775	0.87%	0.027%

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142	5.904	5.883	5.926	VV	269	4371	0.15%	0.005%
143	5.962	5.926	6.007	VV	1367	21418	0.72%	0.022%
144	6.043	6.007	6.063	VV	425	7345	0.25%	0.008%
145	6.090	6.063	6.117	VV	1727	21123	0.71%	0.022%
146	6.139	6.117	6.163	VV	2551	36351	1.23%	0.038%
147	6.189	6.163	6.216	VV	1305	38350	1.29%	0.040%
148	6.225	6.216	6.238	VV	1130	14279	0.48%	0.015%
149	6.245	6.238	6.269	VV	1138	20007	0.67%	0.021%
150	6.285	6.269	6.351	VV	2710	53470	1.80%	0.055%
151	6.368	6.351	6.417	VV	1673	27676	0.93%	0.029%
152	6.440	6.417	6.449	VV	412	5647	0.19%	0.006%
153	6.467	6.449	6.481	VV	612	8135	0.27%	0.008%
154	6.493	6.481	6.500	VV	387	3887	0.13%	0.004%
155	6.518	6.500	6.563	VV	1720	25083	0.85%	0.026%
156	6.587	6.563	6.625	VV	1392	21835	0.74%	0.023%
157	6.639	6.625	6.660	VV	295	4371	0.15%	0.005%
158	6.664	6.660	6.668	VV	168	732	0.02%	0.001%
159	6.673	6.668	6.699	VV	168	2043	0.07%	0.002%
160	6.728	6.699	6.743	VV	1290	16208	0.55%	0.017%
161	6.762	6.743	6.792	VV	610	12292	0.41%	0.013%
162	6.800	6.792	6.804	VV	183	1151	0.04%	0.001%
163	6.825	6.804	6.866	VV	4362	46214	1.56%	0.048%
164	6.880	6.866	6.893	VV	341	3831	0.13%	0.004%
165	6.900	6.893	6.933	VV	238	3729	0.13%	0.004%
166	6.956	6.933	6.970	VV	273	2586	0.09%	0.003%
167	6.977	6.970	6.993	VV	125	890	0.03%	0.001%
168	7.031	6.993	7.048	PV	333	5832	0.20%	0.006%
169	7.069	7.048	7.078	VV	175	2016	0.07%	0.002%
170	7.085	7.078	7.113	VV	198	2423	0.08%	0.003%
171	7.127	7.113	7.146	VV	213	2548	0.09%	0.003%
172	7.156	7.146	7.170	VV	166	1466	0.05%	0.002%
173	7.200	7.170	7.205	PV	199	2266	0.08%	0.002%
174	7.226	7.205	7.272	VV	1035	19117	0.64%	0.020%
175	7.278	7.272	7.302	VV	351	4795	0.16%	0.005%
176	7.326	7.302	7.354	VV	299	5515	0.19%	0.006%
177	7.383	7.354	7.402	VV	581	8202	0.28%	0.008%
178	7.424	7.402	7.450	VV	1027	13558	0.46%	0.014%
179	7.472	7.450	7.489	VV	397	5820	0.20%	0.006%
180	7.493	7.489	7.503	VV	134	748	0.03%	0.001%
181	7.522	7.503	7.546	VV	483	5461	0.18%	0.006%
182	7.564	7.546	7.591	VV	409	5556	0.19%	0.006%
183	7.598	7.591	7.629	VV	162	1927	0.06%	0.002%
184	7.648	7.629	7.661	VV	227	2663	0.09%	0.003%
185	7.697	7.661	7.730	VV	533	10397	0.35%	0.011%
186	7.736	7.730	7.744	VV	192	1066	0.04%	0.001%
187	7.763	7.744	7.799	VV	353	6525	0.22%	0.007%
188	7.817	7.799	7.850	VV	359	7206	0.24%	0.007%
189	7.862	7.850	7.867	VV	263	2152	0.07%	0.002%
190	7.872	7.867	7.882	VV	252	2034	0.07%	0.002%
191	7.888	7.882	7.901	VV	211	1797	0.06%	0.002%
192	7.916	7.901	7.940	VV	256	2475	0.08%	0.003%
193	7.952	7.940	7.961	PV	68	624	0.02%	0.001%
194	7.987	7.961	8.020	VV	843	11461	0.39%	0.012%

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195	8.042	8.020	8.062	VV	325	4917	0.17%	0.005%
196	8.070	8.062	8.079	VV	159	1204	0.04%	0.001%
197	8.083	8.079	8.094	VV	101	696	0.02%	0.001%
198	8.124	8.094	8.143	VV	896	15594	0.53%	0.016%
199	8.157	8.143	8.173	VV	1012	11962	0.40%	0.012%
200	8.182	8.173	8.204	VV	360	4363	0.15%	0.005%
201	8.229	8.204	8.254	VV	841	9583	0.32%	0.010%
202	8.275	8.254	8.290	VV	314	4517	0.15%	0.005%
203	8.316	8.290	8.321	VV	414	5863	0.20%	0.006%
204	8.324	8.321	8.344	VV	385	3669	0.12%	0.004%
205	8.351	8.344	8.362	VV	145	1201	0.04%	0.001%
206	8.399	8.362	8.433	VV	681	13047	0.44%	0.013%
207	8.469	8.433	8.487	PV	760	11213	0.38%	0.012%
208	8.498	8.487	8.518	VV	517	7303	0.25%	0.008%
209	8.527	8.518	8.538	VV	422	3998	0.13%	0.004%
210	8.580	8.538	8.621	VV	3159	48053	1.62%	0.050%
211	8.626	8.621	8.629	VV	185	732	0.02%	0.001%
212	8.646	8.629	8.654	VV	237	2913	0.10%	0.003%
213	8.687	8.654	8.716	VV	1647	24169	0.81%	0.025%
214	8.742	8.716	8.765	VV	1245	19561	0.66%	0.020%
215	8.768	8.765	8.784	VV	415	3082	0.10%	0.003%
216	8.807	8.784	8.824	VV	732	10943	0.37%	0.011%
217	8.830	8.824	8.834	VV	281	1447	0.05%	0.001%
218	8.848	8.834	8.853	VV	343	3287	0.11%	0.003%
219	8.877	8.853	8.899	VV	733	11791	0.40%	0.012%
220	8.913	8.899	8.927	VV	275	3609	0.12%	0.004%
221	8.944	8.927	8.962	VV	760	10301	0.35%	0.011%
222	8.982	8.962	9.002	VV	901	14997	0.51%	0.016%
223	9.045	9.002	9.064	VV	1754	38488	1.30%	0.040%
224	9.077	9.064	9.093	VV	886	12253	0.41%	0.013%
225	9.121	9.093	9.149	VV	1997	37998	1.28%	0.039%
226	9.154	9.149	9.159	VV	341	1928	0.07%	0.002%
227	9.179	9.159	9.196	VV	817	12498	0.42%	0.013%
228	9.205	9.196	9.221	VV	594	7146	0.24%	0.007%
229	9.235	9.221	9.249	VV	556	7568	0.26%	0.008%
230	9.267	9.249	9.289	VV	508	9075	0.31%	0.009%
231	9.324	9.289	9.341	VV	830	15967	0.54%	0.017%
232	9.352	9.341	9.368	VV	520	6013	0.20%	0.006%
233	9.409	9.368	9.435	VV	5901	71247	2.40%	0.074%
234	9.454	9.435	9.467	VV	481	7883	0.27%	0.008%
235	9.497	9.467	9.523	VV	624	11648	0.39%	0.012%
236	9.550	9.523	9.579	VV	460	7127	0.24%	0.007%
237	9.589	9.579	9.594	VV	192	1086	0.04%	0.001%
238	9.613	9.594	9.621	VV	462	5244	0.18%	0.005%
239	9.641	9.621	9.670	VV	748	12165	0.41%	0.013%
240	9.693	9.670	9.706	VV	657	8283	0.28%	0.009%
241	9.730	9.706	9.759	VV	4371	55789	1.88%	0.058%
242	9.788	9.759	9.795	VV	1750	27307	0.92%	0.028%
243	9.800	9.795	9.819	VV	1835	18475	0.62%	0.019%
244	9.829	9.819	9.840	VV	680	7793	0.26%	0.008%
245	9.861	9.840	9.868	VV	1090	14619	0.49%	0.015%
246	9.874	9.868	9.902	VV	1128	14426	0.49%	0.015%

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247	9.919	9.902	9.941	VV	973	14424	0.49%	0.015%
248	9.980	9.941	9.999	VV	808	19752	0.67%	0.020%
249	10.057	9.999	10.114	VV	90263	979622	33.03%	1.013%
250	10.126	10.114	10.144	VV	1188	18346	0.62%	0.019%
251	10.157	10.144	10.172	VV	1059	15185	0.51%	0.016%
252	10.192	10.172	10.245	VV	4096	60082	2.03%	0.062%
253	10.270	10.245	10.280	VV	577	9561	0.32%	0.010%
254	10.294	10.280	10.342	VV	843	13059	0.44%	0.014%
255	10.365	10.342	10.407	PV	961	15950	0.54%	0.016%
256	10.434	10.407	10.447	VV	348	5198	0.18%	0.005%
257	10.467	10.447	10.476	VV	480	5504	0.19%	0.006%
258	10.520	10.476	10.559	VV	2491	52327	1.76%	0.054%
259	10.583	10.559	10.602	VV	1669	25435	0.86%	0.026%
260	10.633	10.602	10.650	VV	1008	22220	0.75%	0.023%
261	10.667	10.650	10.693	VV	936	18126	0.61%	0.019%
262	10.729	10.693	10.762	VV	925	20502	0.69%	0.021%
263	10.776	10.762	10.806	VV	604	11060	0.37%	0.011%
264	10.834	10.806	10.856	VV	1054	19517	0.66%	0.020%
265	10.886	10.856	10.899	VV	672	12461	0.42%	0.013%
266	10.933	10.899	10.966	VV	2353	43214	1.46%	0.045%
267	11.006	10.966	11.034	VV	2069	46658	1.57%	0.048%
268	11.049	11.034	11.112	VV	764	19153	0.65%	0.020%
269	11.129	11.112	11.136	PV	387	3598	0.12%	0.004%
270	11.143	11.136	11.152	VV	425	3651	0.12%	0.004%
271	11.182	11.152	11.194	VV	5290	63709	2.15%	0.066%
272	11.204	11.194	11.234	VV	3898	46429	1.57%	0.048%
273	11.257	11.234	11.283	VV	2599	33216	1.12%	0.034%
274	11.315	11.283	11.338	VV	630	15595	0.53%	0.016%
275	11.354	11.338	11.382	VV	506	8517	0.29%	0.009%
276	11.393	11.382	11.398	VV	239	1794	0.06%	0.002%
277	11.420	11.398	11.426	VV	518	6561	0.22%	0.007%
278	11.444	11.426	11.454	VV	537	7333	0.25%	0.008%
279	11.470	11.454	11.484	VV	1019	12798	0.43%	0.013%
280	11.492	11.484	11.514	VV	730	8064	0.27%	0.008%
281	11.539	11.514	11.555	VV	499	7579	0.26%	0.008%
282	11.582	11.555	11.595	VV	820	14998	0.51%	0.016%
283	11.601	11.595	11.603	VV	760	3542	0.12%	0.004%
284	11.610	11.603	11.620	VV	865	7548	0.25%	0.008%
285	11.639	11.620	11.688	VV	2060	41753	1.41%	0.043%
286	11.727	11.688	11.765	VV	2365	59327	2.00%	0.061%
287	11.794	11.765	11.815	VV	696	12121	0.41%	0.013%
288	11.834	11.815	11.852	PV	915	10132	0.34%	0.010%
289	11.892	11.852	11.919	VV	3640	52848	1.78%	0.055%
290	11.944	11.919	11.968	VV	789	16898	0.57%	0.017%
291	11.987	11.968	12.003	VV	1382	16551	0.56%	0.017%
292	12.020	12.003	12.037	VV	2014	25364	0.86%	0.026%
293	12.055	12.037	12.085	VV	2982	50632	1.71%	0.052%
294	12.102	12.085	12.120	VV	2100	33303	1.12%	0.034%
295	12.136	12.120	12.150	VV	1713	23965	0.81%	0.025%
296	12.166	12.150	12.209	VV	2163	33270	1.12%	0.034%
297	12.223	12.209	12.226	VV	319	2631	0.09%	0.003%
298	12.258	12.226	12.272	VV	644	12497	0.42%	0.013%
299	12.307	12.272	12.364	VV	2221	65528	2.21%	0.068%

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300	12.399	12.364	12.433	VV	4386	79317	2.67%	0.082%
301	12.464	12.433	12.485	VV	1395	21992	0.74%	0.023%
302	12.568	12.485	12.622	PV	212086	2966278	100.00%	3.066%
303	12.639	12.622	12.657	VV	2693	46257	1.56%	0.048%
304	12.668	12.657	12.684	VV	1913	25104	0.85%	0.026%
305	12.689	12.684	12.695	VV	1301	7856	0.26%	0.008%
306	12.717	12.695	12.722	VV	1282	19244	0.65%	0.020%
307	12.729	12.722	12.733	VV	1280	8526	0.29%	0.009%
308	12.753	12.733	12.768	VV	2097	31871	1.07%	0.033%
309	12.777	12.768	12.790	VV	1204	13835	0.47%	0.014%
310	12.803	12.790	12.822	VV	1152	16582	0.56%	0.017%
311	12.838	12.822	12.856	VV	1128	17446	0.59%	0.018%
312	12.889	12.856	12.909	VV	2646	49751	1.68%	0.051%
313	12.923	12.909	12.929	VV	1360	14035	0.47%	0.015%
314	12.951	12.929	12.976	VV	3171	50366	1.70%	0.052%
315	13.006	12.976	13.052	VV	16722	262666	8.86%	0.272%
316	13.062	13.052	13.082	VV	762	10160	0.34%	0.011%
317	13.104	13.082	13.120	VV	425	6356	0.21%	0.007%
318	13.144	13.120	13.154	VV	544	5649	0.19%	0.006%
319	13.187	13.154	13.240	VV	4165	78810	2.66%	0.081%
320	13.248	13.240	13.267	VV	572	5486	0.18%	0.006%
321	13.274	13.267	13.278	VV	280	1608	0.05%	0.002%
322	13.304	13.278	13.327	VV	12027	137184	4.62%	0.142%
323	13.358	13.327	13.380	VV	1873	37761	1.27%	0.039%
324	13.397	13.380	13.426	VV	1442	20822	0.70%	0.022%
325	13.452	13.426	13.463	VV	842	11676	0.39%	0.012%
326	13.469	13.463	13.493	VV	600	8877	0.30%	0.009%
327	13.505	13.493	13.522	VV	590	7402	0.25%	0.008%
328	13.573	13.522	13.604	PV	9591	157006	5.29%	0.162%
329	13.627	13.604	13.684	VV	7362	154690	5.21%	0.160%
330	13.703	13.684	13.721	VV	1525	23401	0.79%	0.024%
331	13.732	13.721	13.749	VV	1098	13108	0.44%	0.014%
332	13.793	13.749	13.859	VV	106803	1359289	45.82%	1.405%
333	13.892	13.859	13.927	VV	3507	79132	2.67%	0.082%
334	13.942	13.927	13.949	VV	1048	11089	0.37%	0.011%
335	13.969	13.949	13.982	VV	942	15739	0.53%	0.016%
336	14.002	13.982	14.023	VV	2108	33752	1.14%	0.035%
337	14.041	14.023	14.061	VV	1983	28965	0.98%	0.030%
338	14.102	14.061	14.122	VV	1989	47218	1.59%	0.049%
339	14.150	14.122	14.185	VV	3981	84908	2.86%	0.088%
340	14.207	14.185	14.236	VV	7413	98141	3.31%	0.101%
341	14.244	14.236	14.249	VV	421	2744	0.09%	0.003%
342	14.278	14.249	14.318	VV	1092	25793	0.87%	0.027%
343	14.352	14.318	14.358	PV	1545	19238	0.65%	0.020%
344	14.381	14.358	14.412	VV	1610	39831	1.34%	0.041%
345	14.426	14.412	14.435	VV	789	9706	0.33%	0.010%
346	14.451	14.435	14.461	VV	965	11921	0.40%	0.012%
347	14.474	14.461	14.494	VV	1083	13549	0.46%	0.014%
348	14.516	14.494	14.522	VV	1018	11246	0.38%	0.012%
349	14.543	14.522	14.581	VV	3327	71563	2.41%	0.074%
350	14.587	14.581	14.596	VV	1227	10246	0.35%	0.011%
351	14.623	14.596	14.652	VV	2121	49690	1.68%	0.051%

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352	14.659	14.652	14.665	VV	1215	8231	0.28%	0.009%
353	14.671	14.665	14.681	VV	1234	9632	0.32%	0.010%
354	14.714	14.681	14.753	VV	6305	113341	3.82%	0.117%
355	14.773	14.753	14.792	VV	3136	47713	1.61%	0.049%
356	14.817	14.792	14.855	VV	3813	96230	3.24%	0.099%
357	14.872	14.855	14.897	VV	3114	41045	1.38%	0.042%
358	14.931	14.897	14.959	VV	5035	81914	2.76%	0.085%
359	14.968	14.959	14.984	VV	931	9663	0.33%	0.010%
360	14.994	14.984	15.012	VV	798	8559	0.29%	0.009%
361	15.053	15.012	15.089	VV	116060	1591735	53.66%	1.646%
362	15.109	15.089	15.122	PV	775	9950	0.34%	0.010%
363	15.139	15.122	15.159	VV	740	8449	0.28%	0.009%
364	15.182	15.159	15.202	PV	8097	89901	3.03%	0.093%
365	15.223	15.202	15.241	VV	9331	111119	3.75%	0.115%
366	15.256	15.241	15.293	VV	4777	58781	1.98%	0.061%
367	15.309	15.293	15.322	PV	635	7301	0.25%	0.008%
368	15.343	15.322	15.370	VV	1754	27013	0.91%	0.028%
369	15.395	15.370	15.415	VV	994	15057	0.51%	0.016%
370	15.427	15.415	15.436	VV	431	3679	0.12%	0.004%
371	15.500	15.436	15.517	VV	1372	37125	1.25%	0.038%
372	15.543	15.517	15.575	VV	1376	34661	1.17%	0.036%
373	15.635	15.575	15.719	VV	56705	1027443	34.64%	1.062%
374	15.729	15.719	15.752	VV	1946	31750	1.07%	0.033%
375	15.776	15.752	15.796	VV	8037	125957	4.25%	0.130%
376	15.818	15.796	15.837	VV	5510	107490	3.62%	0.111%
377	15.854	15.837	15.882	VV	6382	109680	3.70%	0.113%
378	15.902	15.882	15.933	VV	2533	60034	2.02%	0.062%
379	15.947	15.933	15.962	VV	1644	22349	0.75%	0.023%
380	15.987	15.962	16.009	VV	5472	98808	3.33%	0.102%
381	16.014	16.009	16.023	VV	3033	24295	0.82%	0.025%
382	16.028	16.023	16.056	VV	2549	32482	1.10%	0.034%
383	16.072	16.056	16.078	VV	1527	15068	0.51%	0.016%
384	16.098	16.078	16.130	VV	2101	43623	1.47%	0.045%
385	16.159	16.130	16.172	VV	2422	41038	1.38%	0.042%
386	16.186	16.172	16.213	VV	1945	33136	1.12%	0.034%
387	16.219	16.213	16.234	VV	659	5891	0.20%	0.006%
388	16.245	16.234	16.252	VV	604	5342	0.18%	0.006%
389	16.277	16.252	16.305	VV	6018	89624	3.02%	0.093%
390	16.317	16.305	16.335	VV	1177	18192	0.61%	0.019%
391	16.340	16.335	16.367	VV	1174	10678	0.36%	0.011%
392	16.388	16.367	16.402	VV	722	7155	0.24%	0.007%
393	16.495	16.402	16.507	PV	2728	93599	3.16%	0.097%
394	16.511	16.507	16.517	VV	1947	10853	0.37%	0.011%
395	16.527	16.517	16.540	VV	2036	23716	0.80%	0.025%
396	16.580	16.540	16.606	VV	5906	142104	4.79%	0.147%
397	16.610	16.606	16.614	VV	3246	15313	0.52%	0.016%
398	16.651	16.614	16.698	VV	15100	373886	12.60%	0.387%
399	16.742	16.698	16.754	VV	13658	238087	8.03%	0.246%
400	16.763	16.754	16.790	VV	12162	176194	5.94%	0.182%
401	16.795	16.790	16.801	VV	2855	18041	0.61%	0.019%
402	16.808	16.801	16.814	VV	2780	20212	0.68%	0.021%
403	16.847	16.814	16.857	VV	4818	96801	3.26%	0.100%
404	16.876	16.857	16.904	VV	4515	109874	3.70%	0.114%

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405	16.928	16.904	16.952	VV	4780	101001	3.40%	0.104%
406	16.981	16.952	17.004	VV	4884	115000	3.88%	0.119%
407	17.026	17.004	17.030	VV	4474	55401	1.87%	0.057%
408	17.062	17.030	17.093	VV	10456	238522	8.04%	0.247%
409	17.121	17.093	17.157	VV	11275	239767	8.08%	0.248%
410	17.165	17.157	17.171	VV	3790	29574	1.00%	0.031%
411	17.176	17.171	17.180	VV	3525	17591	0.59%	0.018%
412	17.226	17.180	17.246	VV	11183	274304	9.25%	0.284%
413	17.278	17.246	17.296	VV	11724	278533	9.39%	0.288%
414	17.307	17.296	17.327	VV	9208	147424	4.97%	0.152%
415	17.333	17.327	17.350	VV	6144	78257	2.64%	0.081%
416	17.361	17.350	17.366	VV	5938	50678	1.71%	0.052%
417	17.380	17.366	17.390	VV	6273	85853	2.89%	0.089%
418	17.414	17.390	17.422	VV	6742	111933	3.77%	0.116%
419	17.438	17.422	17.447	VV	7313	100395	3.38%	0.104%
420	17.475	17.447	17.510	VV	9612	296449	9.99%	0.306%
421	17.524	17.510	17.537	VV	6989	108950	3.67%	0.113%
422	17.557	17.537	17.562	VV	8678	112885	3.81%	0.117%
423	17.566	17.562	17.573	VV	7793	50084	1.69%	0.052%
424	17.597	17.573	17.637	VV	19317	504310	17.00%	0.521%
425	17.678	17.637	17.700	VV	15730	428451	14.44%	0.443%
426	17.714	17.700	17.723	VV	8502	110541	3.73%	0.114%
427	17.727	17.723	17.744	VV	7757	87882	2.96%	0.091%
428	17.759	17.744	17.763	VV	7531	82408	2.78%	0.085%
429	17.799	17.763	17.826	VV	10439	325263	10.97%	0.336%
430	17.837	17.826	17.845	VV	8929	89093	3.00%	0.092%
431	17.853	17.845	17.870	VV	9649	127695	4.30%	0.132%
432	17.885	17.870	17.900	VV	8370	134980	4.55%	0.140%
433	17.914	17.900	17.920	VV	7813	87833	2.96%	0.091%
434	17.926	17.920	17.941	VV	7483	92765	3.13%	0.096%
435	17.959	17.941	17.964	VV	8391	104789	3.53%	0.108%
436	17.968	17.964	17.978	VV	8118	67248	2.27%	0.070%
437	17.984	17.978	17.991	VV	8205	58965	1.99%	0.061%
438	18.030	17.991	18.036	VV	11305	248130	8.37%	0.257%
439	18.042	18.036	18.049	VV	11490	90230	3.04%	0.093%
440	18.067	18.049	18.074	VV	12771	170156	5.74%	0.176%
441	18.089	18.074	18.098	VV	14415	202696	6.83%	0.210%
442	18.119	18.098	18.143	VV	18749	402718	13.58%	0.416%
443	18.157	18.143	18.162	VV	11788	129690	4.37%	0.134%
444	18.175	18.162	18.180	VV	12825	132369	4.46%	0.137%
445	18.209	18.180	18.224	VV	17050	365504	12.32%	0.378%
446	18.266	18.224	18.290	VV	19539	594834	20.05%	0.615%
447	18.299	18.290	18.313	VV	16018	204977	6.91%	0.212%
448	18.334	18.313	18.339	VV	14332	211609	7.13%	0.219%
449	18.343	18.339	18.360	VV	14255	171934	5.80%	0.178%
450	18.372	18.360	18.385	VV	13541	195090	6.58%	0.202%
451	18.406	18.385	18.413	VV	15009	226976	7.65%	0.235%
452	18.416	18.413	18.423	VV	14606	91812	3.10%	0.095%
453	18.438	18.423	18.447	VV	16961	222680	7.51%	0.230%
454	18.479	18.447	18.519	VV	54121	1400163	47.20%	1.447%
455	18.539	18.519	18.569	VV	28366	657045	22.15%	0.679%
456	18.583	18.569	18.593	VV	17472	232939	7.85%	0.241%

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457	18.597	18.593	18.601	VV	16642	81328	2.74%	0.084%
458	18.639	18.601	18.663	VV	26205	791992	26.70%	0.819%
459	18.672	18.663	18.705	VV	19834	471086	15.88%	0.487%
460	18.713	18.705	18.722	VV	17587	166111	5.60%	0.172%
461	18.748	18.722	18.772	VV	22382	583479	19.67%	0.603%
462	18.778	18.772	18.791	VV	17644	201773	6.80%	0.209%
463	18.814	18.791	18.821	VV	18489	313421	10.57%	0.324%
464	18.844	18.821	18.852	VV	20531	347263	11.71%	0.359%
465	18.862	18.852	18.869	VV	22557	211191	7.12%	0.218%
466	18.878	18.869	18.903	VV	22024	424607	14.31%	0.439%
467	18.911	18.903	18.917	VV	21473	179218	6.04%	0.185%
468	18.941	18.917	18.969	VV	34356	864001	29.13%	0.893%
469	18.976	18.969	18.985	VV	23328	211857	7.14%	0.219%
470	18.998	18.985	19.005	VV	23180	248743	8.39%	0.257%
471	19.016	19.005	19.022	VV	22028	223236	7.53%	0.231%
472	19.061	19.022	19.077	VV	31080	895611	30.19%	0.926%
473	19.107	19.077	19.134	VV	29094	905833	30.54%	0.936%
474	19.142	19.134	19.148	VV	24969	212709	7.17%	0.220%
475	19.162	19.148	19.168	VV	27412	309253	10.43%	0.320%
476	19.178	19.168	19.196	VV	27698	438370	14.78%	0.453%
477	19.213	19.196	19.227	VV	25983	461719	15.57%	0.477%
478	19.232	19.227	19.239	VV	25912	176882	5.96%	0.183%
479	19.248	19.239	19.256	VV	26111	247679	8.35%	0.256%
480	19.264	19.256	19.274	VV	25027	263537	8.88%	0.272%
481	19.308	19.274	19.336	VV	56960	1501355	50.61%	1.552%
482	19.350	19.336	19.355	VV	38268	407626	13.74%	0.421%
483	19.361	19.355	19.375	VV	39751	440162	14.84%	0.455%
484	19.381	19.375	19.392	VV	32499	308082	10.39%	0.318%
485	19.398	19.392	19.410	VV	33252	340110	11.47%	0.352%
486	19.418	19.410	19.424	VV	32438	261821	8.83%	0.271%
487	19.432	19.424	19.439	VV	33118	282407	9.52%	0.292%
488	19.452	19.439	19.460	VV	34572	418256	14.10%	0.432%
489	19.471	19.460	19.480	VV	38037	426154	14.37%	0.441%
490	19.488	19.480	19.528	VV	36435	939743	31.68%	0.971%
491	19.540	19.528	19.547	VV	32809	362938	12.24%	0.375%
492	19.552	19.547	19.560	VV	31745	236174	7.96%	0.244%
493	19.568	19.560	19.574	VV	30080	229322	7.73%	0.237%
494	19.589	19.574	19.594	VV	31645	367586	12.39%	0.380%
495	19.599	19.594	19.604	VV	31894	182493	6.15%	0.189%
496	19.620	19.604	19.631	VV	34143	529437	17.85%	0.547%
497	19.642	19.631	19.651	VV	33442	375789	12.67%	0.388%
498	19.655	19.651	19.663	VV	32085	216230	7.29%	0.224%
499	19.669	19.663	19.674	VV	31958	215697	7.27%	0.223%
500	19.684	19.674	19.690	VV	34640	310193	10.46%	0.321%
501	19.731	19.690	19.739	VV	36614	989578	33.36%	1.023%
502	19.744	19.739	19.751	VV	35854	241826	8.15%	0.250%
503	19.773	19.751	19.779	VV	38974	614430	20.71%	0.635%
504	19.790	19.779	19.804	VV	37183	535740	18.06%	0.554%
505	19.808	19.804	19.832	VV	35759	558058	18.81%	0.577%
506	19.846	19.832	19.854	VV	39594	472393	15.93%	0.488%
507	19.875	19.854	19.879	VV	37359	531372	17.91%	0.549%
508	19.896	19.879	19.921	VV	38351	919370	30.99%	0.950%
509	19.956	19.921	19.965	VV	40008	985363	33.22%	1.019%

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510	19.970	19.965	19.980	VV	41122	349235	11.77%	0.361%
511	19.993	19.980	20.000	VV	41641	500065	16.86%	0.517%
512	20.010	20.000	20.014	VV	44221	354459	11.95%	0.366%
513	20.027	20.014	20.034	VV	47426	535607	18.06%	0.554%
514	20.050	20.034	20.060	VV	45019	683903	23.06%	0.707%
515	20.082	20.060	20.129	VV	59254	2000259	67.43%	2.068%
516	20.134	20.129	20.139	VV	40720	252146	8.50%	0.261%
517	20.149	20.139	20.154	VV	42373	361338	12.18%	0.374%
518	20.161	20.154	20.173	VV	44125	474512	16.00%	0.491%
519	20.185	20.173	20.194	VV	42536	509167	17.17%	0.526%
520	20.206	20.194	20.218	VV	42988	606906	20.46%	0.627%
521	20.226	20.218	20.232	VV	43844	346195	11.67%	0.358%
522	20.258	20.232	20.263	VV	48267	849404	28.64%	0.878%
523	20.270	20.263	20.300	VV	50373	1035856	34.92%	1.071%
524	20.307	20.300	20.317	VV	44317	443123	14.94%	0.458%
525	20.323	20.317	20.328	VV	43861	278446	9.39%	0.288%
526	20.338	20.328	20.350	VV	46165	571205	19.26%	0.591%
527	20.361	20.350	20.365	VV	44877	408866	13.78%	0.423%
528	20.379	20.365	20.383	VV	47866	493431	16.63%	0.510%
529	20.391	20.383	20.414	VV	51179	907561	30.60%	0.938%
530	20.424	20.414	20.429	VV	50224	415804	14.02%	0.430%
531	20.439	20.429	20.448	VV	51817	571253	19.26%	0.591%
532	20.461	20.448	20.468	VV	54838	611184	20.60%	0.632%
533	20.474	20.468	20.478	VV	51832	289057	9.74%	0.299%
534	20.495	20.478	20.499	VV	53874	659286	22.23%	0.682%
535	20.507	20.499	20.512	VV	54801	421850	14.22%	0.436%
536	20.516	20.512	20.537	VV	53673	731371	24.66%	0.756%
537	20.544	20.537	20.555	VV	47631	505846	17.05%	0.523%
538	20.561	20.555	20.568	VV	45915	329450	11.11%	0.341%
539	20.576	20.568	20.582	VV	45555	374454	12.62%	0.387%
540	20.601	20.582	20.614	VV	51852	917269	30.92%	0.948%
541	20.634	20.614	20.653	VV	55903	1192873	40.21%	1.233%
542	20.661	20.653	20.665	VV	49963	340292	11.47%	0.352%
543	20.689	20.665	20.693	VV	57503	928614	31.31%	0.960%
544	20.711	20.693	20.732	VV	64127	1405919	47.40%	1.453%
545	20.749	20.732	20.759	VV	63036	997596	33.63%	1.031%
546	20.763	20.759	20.826	VV	61860	2079928	70.12%	2.150%
547	20.832	20.826	20.839	VV	42459	306370	10.33%	0.317%
548	20.882	20.839	20.887	VV	46569	1168118	39.38%	1.208%
549	20.893	20.887	20.914	VV	46884	699064	23.57%	0.723%
550	20.928	20.914	20.935	VV	43066	531039	17.90%	0.549%
551	20.944	20.935	20.949	VV	43599	358469	12.08%	0.371%
552	20.961	20.949	20.965	VV	46118	412464	13.91%	0.426%
553	20.989	20.965	21.002	VV	49776	1052638	35.49%	1.088%
554	21.010	21.002	21.015	VV	45122	327067	11.03%	0.338%
555	21.025	21.015	21.037	VV	46393	607461	20.48%	0.628%
556	21.045	21.037	21.070	VV	46808	864851	29.16%	0.894%
557	21.078	21.070	21.092	VV	41104	495032	16.69%	0.512%
558	21.097	21.092	21.107	VV	37707	335270	11.30%	0.347%
559	21.114	21.107	21.131	VV	37283	507265	17.10%	0.524%
560	21.138	21.131	21.145	VV	35507	296052	9.98%	0.306%
561	21.156	21.145	21.161	VV	36436	320604	10.81%	0.331%

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562	21.167	21.161	21.180	VV	35289	374744	12.63%	0.387%
563	21.199	21.180	21.204	VV	38049	494430	16.67%	0.511%
564	21.211	21.204	21.221	VV	39110	403334	13.60%	0.417%
565	21.227	21.221	21.260	VV	38647	824959	27.81%	0.853%
566	21.265	21.260	21.282	VV	33125	433408	14.61%	0.448%
567	21.298	21.282	21.309	VV	36850	563234	18.99%	0.582%
568	21.313	21.309	21.325	VV	33841	296283	9.99%	0.306%
569	21.328	21.325	21.346	VV	31374	385195	12.99%	0.398%
570	21.350	21.346	21.367	VV	28976	353183	11.91%	0.365%
571	21.377	21.367	21.386	VV	29228	301643	10.17%	0.312%
572	21.397	21.386	21.428	VV	27271	641121	21.61%	0.663%
573	21.436	21.428	21.441	VV	26200	195274	6.58%	0.202%
574	21.448	21.441	21.465	VV	28851	393868	13.28%	0.407%
575	21.469	21.465	21.485	VV	27424	301806	10.17%	0.312%
576	21.504	21.485	21.517	VV	28109	502718	16.95%	0.520%
577	21.522	21.517	21.534	VV	27514	255124	8.60%	0.264%
578	21.541	21.534	21.545	VV	25382	172554	5.82%	0.178%
579	21.557	21.545	21.562	VV	28866	266584	8.99%	0.276%
580	21.579	21.562	21.585	VV	31248	387105	13.05%	0.400%
581	21.591	21.585	21.594	VV	31620	179675	6.06%	0.186%
582	21.604	21.594	21.609	VV	32867	280185	9.45%	0.290%
583	21.618	21.609	21.723	VV	33063	1679177	56.61%	1.736%
584	21.730	21.723	21.741	VV	13867	126674	4.27%	0.131%
585	21.748	21.741	21.758	VV	11269	104538	3.52%	0.108%
586	21.763	21.758	21.767	VV	10646	54817	1.85%	0.057%
587	21.774	21.767	21.781	VV	11929	96375	3.25%	0.100%
588	21.821	21.781	21.825	VV	18115	363712	12.26%	0.376%
589	21.847	21.825	21.878	VV	22701	623226	21.01%	0.644%
590	21.883	21.878	21.920	VV	16198	353161	11.91%	0.365%
591	21.926	21.920	21.932	VV	11141	71109	2.40%	0.074%
592	21.943	21.932	21.946	VV	12903	101025	3.41%	0.104%
593	21.956	21.946	21.960	VV	16498	120153	4.05%	0.124%
594	21.981	21.960	21.991	VV	23832	375336	12.65%	0.388%
595	22.004	21.991	22.038	VV	22593	530591	17.89%	0.549%
596	22.042	22.038	22.078	VV	14947	307525	10.37%	0.318%
597	22.087	22.078	22.098	VV	10051	108576	3.66%	0.112%
598	22.114	22.098	22.135	VV	9359	151135	5.10%	0.156%
599	22.140	22.135	22.151	VV	4325	28961	0.98%	0.030%
600	22.155	22.151	22.159	VV	2239	8722	0.29%	0.009%
601	22.168	22.159	22.172	VV	4030	23024	0.78%	0.024%
602	22.180	22.172	22.196	VV	4186	35420	1.19%	0.037%
603	22.226	22.196	22.234	VV	4648	67547	2.28%	0.070%
604	22.247	22.234	22.253	VV	3893	39855	1.34%	0.041%
605	22.261	22.253	22.290	VV	4875	51664	1.74%	0.053%

Sum of corrected areas: 96731939

FG102124.M Mon Nov 04 03:04:43 2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG110124\
Data File : FG014623.D
Signal(s) : FID1A.ch
Acq On : 01 Nov 2024 15:40
Operator : YP\AJ
Sample : P4663-06
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
RES-BUILDING-PAD-NO-3

Integration File: autoint1.e
Quant Time: Nov 04 01:30:38 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG102124.M
Quant Title :
QLast Update : Mon Oct 21 17:03:32 2024
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...	15.053	1592065	13.311 ug/ml
Target Compounds			

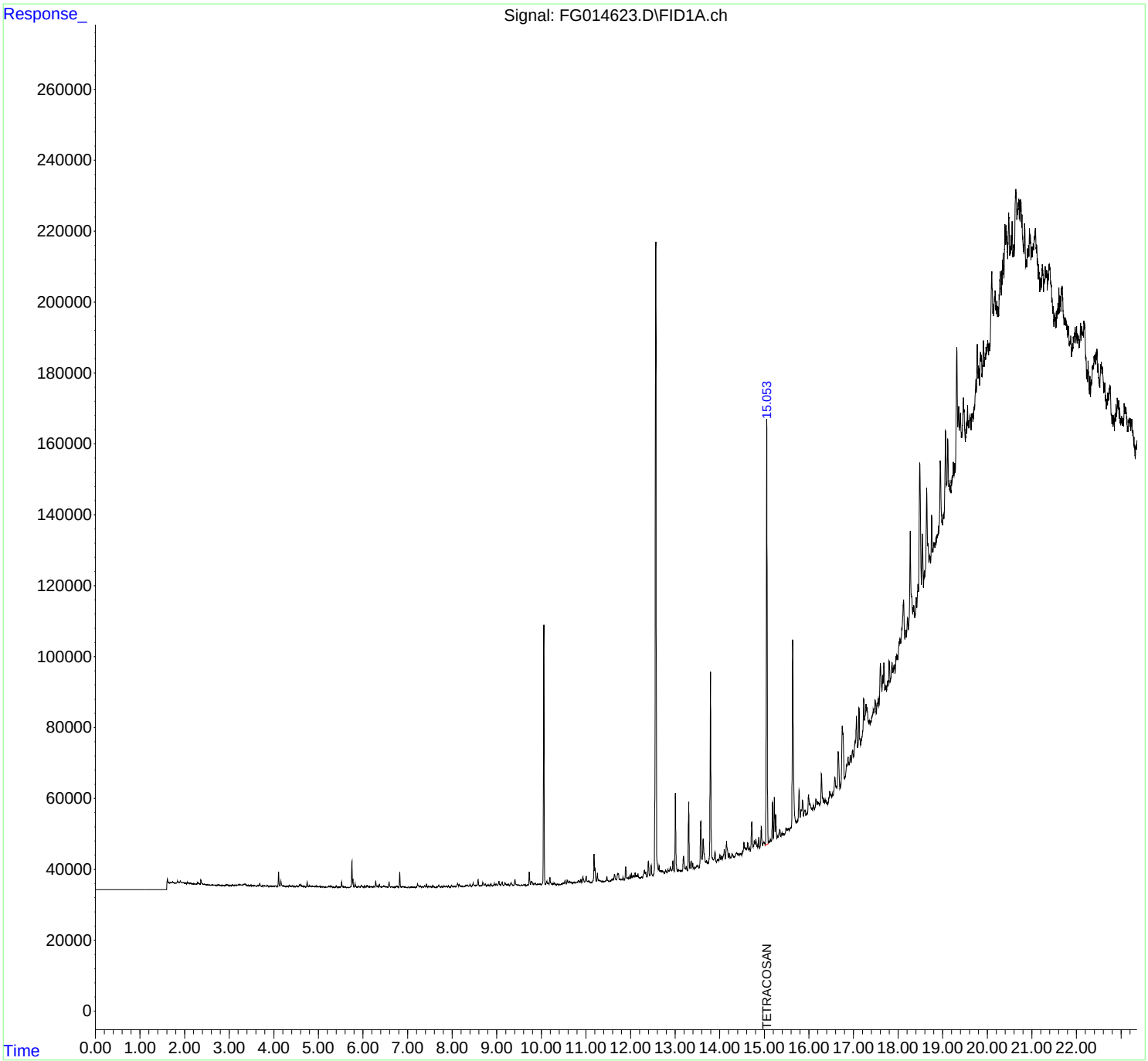
(f)=RT Delta > 1/2 Window (m)=manual int.

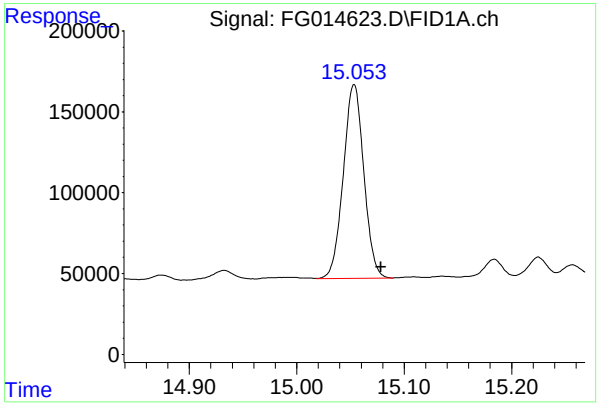
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG110124\
Data File : FG014623.D
Signal(s) : FID1A.ch
Acq On : 01 Nov 2024 15:40
Operator : YP\AJ
Sample : P4663-06
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
RES-BUILDING-PAD-NO-3

Integration File: autoint1.e
Quant Time: Nov 04 01:30:38 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG102124.M
Quant Title :
QLast Update : Mon Oct 21 17:03:32 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal Phase : Rxi-1ms
Signal Info : 20mx0.18mmx0.18um





#9 TETRACOSANE-d50 (SURROGATE)

R.T.: 15.053 min
Delta R.T.: -0.025 mi
Response: 1592065
Conc: 13.31 ug/m

Instrument :
FID_G
ClientSampleId :
RES-BUILDING-PAD-NO-3

10

A B C D E F G H I J

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG110124\
Data File : FG014623.D
Signal(s) : FID1A.ch
Acq On : 01 Nov 2024 15:40
Sample : P4663-06
Misc :
ALS Vial : 23 Sample Multiplier: 1

Integration File: Sample.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG102124.M
Title :

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	1.959	1.947	1.964	PV	127	758	0.03%	0.001%
2	1.968	1.964	1.997	VV	147	1523	0.05%	0.001%
3	2.006	1.997	2.011	PV	71	287	0.01%	0.000%
4	2.015	2.011	2.023	VV	79	204	0.01%	0.000%
5	2.025	2.023	2.043	PV	50	198	0.01%	0.000%
6	2.062	2.043	2.088	PV	310	5009	0.17%	0.004%
7	2.094	2.088	2.119	VV	209	2643	0.09%	0.002%
8	2.122	2.119	2.133	VV	171	1176	0.04%	0.001%
9	2.138	2.133	2.152	VV	184	1388	0.05%	0.001%
10	2.157	2.152	2.165	VV	113	592	0.02%	0.000%
11	2.170	2.165	2.198	PV	89	891	0.03%	0.001%
12	2.213	2.198	2.222	VV	108	993	0.03%	0.001%
13	2.229	2.222	2.236	VV	100	532	0.02%	0.000%
14	2.241	2.236	2.259	VV	82	423	0.01%	0.000%
15	2.264	2.259	2.279	VV	73	731	0.03%	0.001%
16	2.293	2.279	2.353	VV	591	12032	0.41%	0.009%
17	2.365	2.353	2.403	VV	1371	18450	0.63%	0.014%
18	2.407	2.403	2.418	VV	200	1423	0.05%	0.001%
19	2.428	2.418	2.436	VV	155	1160	0.04%	0.001%
20	2.445	2.436	2.475	VV	249	3148	0.11%	0.002%
21	2.480	2.475	2.518	VV	153	1591	0.05%	0.001%
22	2.524	2.518	2.533	VV	94	529	0.02%	0.000%
23	2.537	2.533	2.544	VV	87	393	0.01%	0.000%
24	2.550	2.544	2.556	VV	87	463	0.02%	0.000%
25	2.561	2.556	2.568	VV	75	281	0.01%	0.000%
26	2.572	2.568	2.591	VV	83	550	0.02%	0.000%
27	2.595	2.591	2.602	PV	92	438	0.02%	0.000%
28	2.605	2.602	2.611	VV	95	367	0.01%	0.000%
29	2.636	2.611	2.645	VV	120	1485	0.05%	0.001%
30	2.650	2.645	2.654	VV	97	367	0.01%	0.000%
31	2.664	2.654	2.677	VV	124	1204	0.04%	0.001%
32	2.680	2.677	2.693	VV	77	592	0.02%	0.000%
33	2.697	2.693	2.704	VV	78	258	0.01%	0.000%
34	2.714	2.704	2.721	PV	126	712	0.02%	0.001%
35	2.758	2.721	2.796	VV	278	6573	0.23%	0.005%
36	2.800	2.796	2.810	VV	95	618	0.02%	0.000%

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37	2.814	2.810	2.834	VV	84	840	0.03%	0.001%
38	2.847	2.834	2.864	VV	164	2095	0.07%	0.002%
39	2.867	2.864	2.873	VV	157	706	0.02%	0.001%
40	2.882	2.873	2.901	VV	151	1047	0.04%	0.001%
41	2.914	2.901	2.922	PV	156	1184	0.04%	0.001%
42	2.945	2.922	2.950	VV	336	4328	0.15%	0.003%
43	2.955	2.950	2.988	VV	309	4239	0.15%	0.003%
44	3.020	2.988	3.040	VV	206	3308	0.11%	0.002%
45	3.043	3.040	3.051	VV	113	528	0.02%	0.000%
46	3.072	3.051	3.086	VV	394	4964	0.17%	0.004%
47	3.091	3.086	3.098	VV	207	1385	0.05%	0.001%
48	3.107	3.098	3.115	VV	220	1905	0.07%	0.001%
49	3.119	3.115	3.132	VV	222	1773	0.06%	0.001%
50	3.141	3.132	3.153	VV	246	2603	0.09%	0.002%
51	3.165	3.153	3.172	VV	214	1947	0.07%	0.001%
52	3.181	3.172	3.198	VV	290	3546	0.12%	0.003%
53	3.213	3.198	3.224	VV	498	6039	0.21%	0.004%
54	3.228	3.224	3.233	VV	378	1780	0.06%	0.001%
55	3.239	3.233	3.290	VV	407	11530	0.40%	0.008%
56	3.298	3.290	3.303	VV	349	2519	0.09%	0.002%
57	3.324	3.303	3.338	VV	520	8748	0.30%	0.006%
58	3.355	3.338	3.424	VV	523	17947	0.62%	0.013%
59	3.428	3.424	3.444	VV	218	2189	0.08%	0.002%
60	3.447	3.444	3.451	VV	174	603	0.02%	0.000%
61	3.465	3.451	3.472	VV	237	1936	0.07%	0.001%
62	3.486	3.472	3.506	VV	283	4704	0.16%	0.003%
63	3.511	3.506	3.528	VV	199	2339	0.08%	0.002%
64	3.532	3.528	3.551	VV	177	2084	0.07%	0.002%
65	3.561	3.551	3.577	VV	230	2791	0.10%	0.002%
66	3.584	3.577	3.603	VV	187	2006	0.07%	0.001%
67	3.607	3.603	3.613	VV	110	586	0.02%	0.000%
68	3.618	3.613	3.626	VV	133	762	0.03%	0.001%
69	3.646	3.626	3.663	VV	235	3805	0.13%	0.003%
70	3.684	3.663	3.709	VV	793	10743	0.37%	0.008%
71	3.716	3.709	3.733	VV	164	1759	0.06%	0.001%
72	3.738	3.733	3.761	VV	123	1477	0.05%	0.001%
73	3.782	3.761	3.797	VV	307	4435	0.15%	0.003%
74	3.802	3.797	3.807	VV	194	931	0.03%	0.001%
75	3.814	3.807	3.820	VV	142	1015	0.03%	0.001%
76	3.826	3.820	3.832	VV	134	808	0.03%	0.001%
77	3.856	3.832	3.875	VV	361	5281	0.18%	0.004%
78	3.880	3.875	3.886	VV	115	578	0.02%	0.000%
79	3.892	3.886	3.896	VV	63	263	0.01%	0.000%
80	3.909	3.896	3.934	PV	166	2410	0.08%	0.002%
81	3.961	3.934	3.974	VV	122	1885	0.06%	0.001%
82	3.980	3.974	3.987	VV	75	423	0.01%	0.000%
83	3.994	3.987	4.001	VV	97	454	0.02%	0.000%
84	4.018	4.001	4.022	VV	143	1128	0.04%	0.001%
85	4.041	4.022	4.073	VV	255	4258	0.15%	0.003%
86	4.076	4.073	4.081	VV	62	194	0.01%	0.000%
87	4.108	4.081	4.137	PV	4170	41446	1.42%	0.031%
88	4.161	4.137	4.200	VV	1593	24113	0.83%	0.018%
89	4.222	4.200	4.271	VV	312	7026	0.24%	0.005%

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90	4.284	4.271	4.291	VV	133	974	0.03%	0.001%
91	4.303	4.291	4.317	VV	164	2122	0.07%	0.002%
92	4.349	4.317	4.376	VV	567	8269	0.28%	0.006%
93	4.388	4.376	4.408	VV	223	3278	0.11%	0.002%
94	4.422	4.408	4.460	VV	411	6131	0.21%	0.005%
95	4.468	4.460	4.484	VV	153	1299	0.04%	0.001%
96	4.489	4.484	4.494	VV	93	335	0.01%	0.000%
97	4.510	4.494	4.526	VV	365	4145	0.14%	0.003%
98	4.529	4.526	4.536	VV	142	540	0.02%	0.000%
99	4.543	4.536	4.556	VV	136	1184	0.04%	0.001%
100	4.581	4.556	4.586	VV	619	7233	0.25%	0.005%
101	4.595	4.586	4.611	VV	845	9427	0.32%	0.007%
102	4.619	4.611	4.643	VV	526	6243	0.21%	0.005%
103	4.659	4.643	4.671	VV	236	2832	0.10%	0.002%
104	4.693	4.671	4.722	VV	208	3866	0.13%	0.003%
105	4.748	4.722	4.777	VV	1479	16658	0.57%	0.012%
106	4.802	4.777	4.826	VV	436	8126	0.28%	0.006%
107	4.832	4.826	4.844	VV	299	2567	0.09%	0.002%
108	4.847	4.844	4.852	VV	198	935	0.03%	0.001%
109	4.863	4.852	4.878	VV	360	3816	0.13%	0.003%
110	4.883	4.878	4.887	VV	261	1166	0.04%	0.001%
111	4.893	4.887	4.900	VV	281	2038	0.07%	0.002%
112	4.904	4.900	4.919	VV	286	2536	0.09%	0.002%
113	4.923	4.919	4.930	VV	218	1345	0.05%	0.001%
114	4.947	4.930	4.981	VV	359	6984	0.24%	0.005%
115	4.988	4.981	5.002	VV	213	2290	0.08%	0.002%
116	5.008	5.002	5.013	VV	178	1069	0.04%	0.001%
117	5.027	5.013	5.034	VV	254	2571	0.09%	0.002%
118	5.037	5.034	5.047	VV	194	1338	0.05%	0.001%
119	5.051	5.047	5.063	VV	236	1900	0.07%	0.001%
120	5.068	5.063	5.077	VV	219	1333	0.05%	0.001%
121	5.094	5.077	5.126	VV	217	4299	0.15%	0.003%
122	5.136	5.126	5.149	VV	123	1134	0.04%	0.001%
123	5.164	5.149	5.177	VV	162	1843	0.06%	0.001%
124	5.183	5.177	5.191	VV	158	1064	0.04%	0.001%
125	5.197	5.191	5.210	VV	140	1439	0.05%	0.001%
126	5.217	5.210	5.225	VV	234	1845	0.06%	0.001%
127	5.237	5.225	5.253	VV	431	4942	0.17%	0.004%
128	5.274	5.253	5.323	VV	513	11217	0.39%	0.008%
129	5.332	5.323	5.343	VV	194	1617	0.06%	0.001%
130	5.351	5.343	5.355	VV	164	928	0.03%	0.001%
131	5.363	5.355	5.380	VV	168	2075	0.07%	0.002%
132	5.399	5.380	5.444	VV	552	8567	0.29%	0.006%
133	5.463	5.444	5.478	PV	196	2419	0.08%	0.002%
134	5.521	5.478	5.550	VV	1598	21264	0.73%	0.016%
135	5.559	5.550	5.576	VV	276	2966	0.10%	0.002%
136	5.593	5.576	5.616	VV	326	4413	0.15%	0.003%
137	5.623	5.616	5.633	VV	137	907	0.03%	0.001%
138	5.654	5.633	5.674	VV	108	1729	0.06%	0.001%
139	5.724	5.674	5.729	VV	392	5503	0.19%	0.004%
140	5.752	5.729	5.768	VV	7508	74879	2.57%	0.055%
141	5.776	5.768	5.805	VV	2319	23462	0.81%	0.017%

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142	5.822	5.805	5.869	VV	1175	18363	0.63%	0.014%
143	5.904	5.869	5.937	VV	409	10592	0.36%	0.008%
144	5.961	5.937	6.003	VV	730	14757	0.51%	0.011%
145	6.040	6.003	6.072	VV	564	11547	0.40%	0.009%
146	6.091	6.072	6.121	VV	722	11438	0.39%	0.008%
147	6.125	6.121	6.143	VV	275	2935	0.10%	0.002%
148	6.157	6.143	6.179	VV	415	5806	0.20%	0.004%
149	6.195	6.179	6.213	VV	373	5125	0.18%	0.004%
150	6.227	6.213	6.237	VV	288	2836	0.10%	0.002%
151	6.250	6.237	6.265	VV	339	4267	0.15%	0.003%
152	6.286	6.265	6.316	VV	1823	24457	0.84%	0.018%
153	6.337	6.316	6.354	VV	373	7243	0.25%	0.005%
154	6.369	6.354	6.386	VV	988	11483	0.39%	0.008%
155	6.390	6.386	6.418	VV	338	4645	0.16%	0.003%
156	6.438	6.418	6.450	VV	357	4810	0.17%	0.004%
157	6.464	6.450	6.477	VV	588	6636	0.23%	0.005%
158	6.489	6.477	6.509	VV	514	6970	0.24%	0.005%
159	6.518	6.509	6.534	VV	271	3552	0.12%	0.003%
160	6.544	6.534	6.563	VV	280	3354	0.12%	0.002%
161	6.586	6.563	6.625	VV	1644	23554	0.81%	0.017%
162	6.642	6.625	6.667	VV	375	6492	0.22%	0.005%
163	6.673	6.667	6.686	VV	227	2034	0.07%	0.001%
164	6.712	6.686	6.722	VV	245	3177	0.11%	0.002%
165	6.754	6.722	6.805	VV	470	14038	0.48%	0.010%
166	6.825	6.805	6.852	VV	4425	44945	1.54%	0.033%
167	6.855	6.852	6.868	VV	261	1733	0.06%	0.001%
168	6.879	6.868	6.891	VV	349	3977	0.14%	0.003%
169	6.901	6.891	6.933	VV	376	6693	0.23%	0.005%
170	6.941	6.933	6.974	VV	284	4388	0.15%	0.003%
171	6.978	6.974	6.996	VV	127	1087	0.04%	0.001%
172	7.012	6.996	7.018	VV	207	1791	0.06%	0.001%
173	7.031	7.018	7.050	VV	307	3804	0.13%	0.003%
174	7.061	7.050	7.068	PV	142	868	0.03%	0.001%
175	7.078	7.068	7.105	VV	247	3847	0.13%	0.003%
176	7.112	7.105	7.119	VV	129	1037	0.04%	0.001%
177	7.137	7.119	7.143	VV	211	2302	0.08%	0.002%
178	7.155	7.143	7.176	VV	203	2659	0.09%	0.002%
179	7.226	7.176	7.252	VV	1147	20916	0.72%	0.015%
180	7.258	7.252	7.269	VV	522	4250	0.15%	0.003%
181	7.278	7.269	7.314	VV	466	9009	0.31%	0.007%
182	7.327	7.314	7.352	VV	378	5484	0.19%	0.004%
183	7.381	7.352	7.406	VV	593	10005	0.34%	0.007%
184	7.423	7.406	7.453	VV	1030	14300	0.49%	0.011%
185	7.473	7.453	7.510	VV	539	9874	0.34%	0.007%
186	7.522	7.510	7.544	VV	427	5102	0.18%	0.004%
187	7.565	7.544	7.589	VV	712	9562	0.33%	0.007%
188	7.596	7.589	7.615	VV	297	2849	0.10%	0.002%
189	7.623	7.615	7.627	PV	70	297	0.01%	0.000%
190	7.647	7.627	7.669	VV	271	4329	0.15%	0.003%
191	7.699	7.669	7.742	VV	714	14888	0.51%	0.011%
192	7.762	7.742	7.768	VV	361	3841	0.13%	0.003%
193	7.770	7.768	7.784	VV	266	2129	0.07%	0.002%
194	7.789	7.784	7.801	VV	188	1278	0.04%	0.001%

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195	7.815	7.801	7.823	VV	406	3492	0.12%	0.003%
196	7.829	7.823	7.850	VV	342	3714	0.13%	0.003%
197	7.874	7.850	7.900	VV	358	7421	0.25%	0.005%
198	7.917	7.900	7.950	VV	517	6654	0.23%	0.005%
199	7.956	7.950	7.960	VV	65	239	0.01%	0.000%
200	7.988	7.960	8.022	VV	687	10502	0.36%	0.008%
201	8.041	8.022	8.056	VV	385	5069	0.17%	0.004%
202	8.065	8.056	8.087	VV	211	3111	0.11%	0.002%
203	8.124	8.087	8.144	VV	965	19687	0.68%	0.014%
204	8.156	8.144	8.176	VV	832	10855	0.37%	0.008%
205	8.184	8.176	8.215	VV	334	6196	0.21%	0.005%
206	8.231	8.215	8.255	VV	268	3901	0.13%	0.003%
207	8.273	8.255	8.290	VV	350	5039	0.17%	0.004%
208	8.314	8.290	8.327	VV	505	8213	0.28%	0.006%
209	8.340	8.327	8.366	VV	510	9145	0.31%	0.007%
210	8.381	8.366	8.385	VV	319	2861	0.10%	0.002%
211	8.401	8.385	8.435	VV	759	12852	0.44%	0.009%
212	8.471	8.435	8.490	VV	1082	19264	0.66%	0.014%
213	8.499	8.490	8.514	VV	502	6143	0.21%	0.005%
214	8.526	8.514	8.539	VV	446	5455	0.19%	0.004%
215	8.553	8.539	8.559	VV	519	5206	0.18%	0.004%
216	8.582	8.559	8.629	VV	1976	32663	1.12%	0.024%
217	8.654	8.629	8.665	VV	360	6594	0.23%	0.005%
218	8.690	8.665	8.722	VV	1168	21339	0.73%	0.016%
219	8.742	8.722	8.790	VV	813	17463	0.60%	0.013%
220	8.810	8.790	8.826	VV	589	7881	0.27%	0.006%
221	8.848	8.826	8.856	VV	457	7050	0.24%	0.005%
222	8.871	8.856	8.897	VV	859	12457	0.43%	0.009%
223	8.914	8.897	8.921	VV	298	3472	0.12%	0.003%
224	8.943	8.921	8.970	VV	886	14506	0.50%	0.011%
225	8.986	8.970	9.012	VV	790	13135	0.45%	0.010%
226	9.050	9.012	9.070	VV	1456	26821	0.92%	0.020%
227	9.076	9.070	9.095	VV	536	7006	0.24%	0.005%
228	9.123	9.095	9.157	VV	1238	24668	0.85%	0.018%
229	9.184	9.157	9.245	VV	1064	29396	1.01%	0.022%
230	9.261	9.245	9.292	VV	597	10414	0.36%	0.008%
231	9.324	9.292	9.366	VV	1050	23418	0.80%	0.017%
232	9.409	9.366	9.450	VV	1959	35407	1.22%	0.026%
233	9.461	9.450	9.482	VV	389	5244	0.18%	0.004%
234	9.499	9.482	9.522	VV	361	5162	0.18%	0.004%
235	9.528	9.522	9.530	PV	53	181	0.01%	0.000%
236	9.558	9.530	9.574	VV	344	5001	0.17%	0.004%
237	9.591	9.574	9.597	VV	238	2463	0.08%	0.002%
238	9.616	9.597	9.630	VV	340	5732	0.20%	0.004%
239	9.635	9.630	9.659	VV	317	3853	0.13%	0.003%
240	9.668	9.659	9.677	VV	175	1314	0.05%	0.001%
241	9.695	9.677	9.710	VV	358	5067	0.17%	0.004%
242	9.731	9.710	9.759	VV	3908	46972	1.61%	0.035%
243	9.779	9.759	9.818	VV	1217	28363	0.97%	0.021%
244	9.832	9.818	9.838	VV	437	4389	0.15%	0.003%
245	9.859	9.838	9.893	VV	782	16327	0.56%	0.012%
246	9.921	9.893	9.944	VV	491	9436	0.32%	0.007%

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247	9.953	9.944	9.960	VV	357	3275	0.11%	0.002%
248	9.978	9.960	9.997	VV	431	6960	0.24%	0.005%
249	10.057	9.997	10.087	VV	73491	751946	25.83%	0.554%
250	10.125	10.087	10.150	VV	1078	23393	0.80%	0.017%
251	10.156	10.150	10.175	VV	573	6598	0.23%	0.005%
252	10.193	10.175	10.240	VV	2141	34451	1.18%	0.025%
253	10.262	10.240	10.272	VV	510	5321	0.18%	0.004%
254	10.277	10.272	10.281	VV	367	1951	0.07%	0.001%
255	10.296	10.281	10.336	VV	627	9062	0.31%	0.007%
256	10.361	10.336	10.389	PV	257	3764	0.13%	0.003%
257	10.404	10.389	10.423	PV	141	1722	0.06%	0.001%
258	10.431	10.423	10.442	VV	110	867	0.03%	0.001%
259	10.447	10.442	10.451	VV	133	433	0.01%	0.000%
260	10.459	10.451	10.463	VV	161	896	0.03%	0.001%
261	10.488	10.463	10.508	VV	484	7756	0.27%	0.006%
262	10.532	10.508	10.554	VV	1171	17057	0.59%	0.013%
263	10.581	10.554	10.601	VV	1234	19145	0.66%	0.014%
264	10.630	10.601	10.648	VV	926	17908	0.62%	0.013%
265	10.661	10.648	10.692	VV	596	11253	0.39%	0.008%
266	10.732	10.692	10.755	VV	513	13830	0.48%	0.010%
267	10.781	10.755	10.804	VV	494	10231	0.35%	0.008%
268	10.830	10.804	10.851	VV	904	17010	0.58%	0.013%
269	10.886	10.851	10.906	VV	1185	22001	0.76%	0.016%
270	10.932	10.906	10.967	VV	1893	35145	1.21%	0.026%
271	11.006	10.967	11.043	VV	1883	40522	1.39%	0.030%
272	11.062	11.043	11.109	VV	655	13766	0.47%	0.010%
273	11.183	11.109	11.197	VV	8092	101298	3.48%	0.075%
274	11.204	11.197	11.237	VV	3967	44192	1.52%	0.033%
275	11.258	11.237	11.277	VV	2598	33094	1.14%	0.024%
276	11.289	11.277	11.326	VV	717	16225	0.56%	0.012%
277	11.332	11.326	11.354	VV	475	5772	0.20%	0.004%
278	11.361	11.354	11.377	VV	348	3658	0.13%	0.003%
279	11.382	11.377	11.385	VV	211	911	0.03%	0.001%
280	11.389	11.385	11.397	VV	224	1137	0.04%	0.001%
281	11.406	11.397	11.427	VV	232	2998	0.10%	0.002%
282	11.441	11.427	11.453	VV	381	4418	0.15%	0.003%
283	11.470	11.453	11.487	VV	1461	17180	0.59%	0.013%
284	11.492	11.487	11.516	VV	415	4268	0.15%	0.003%
285	11.539	11.516	11.555	PV	313	3948	0.14%	0.003%
286	11.607	11.555	11.621	VV	798	21083	0.72%	0.016%
287	11.640	11.621	11.685	VV	1953	37654	1.29%	0.028%
288	11.720	11.685	11.754	VV	2038	53874	1.85%	0.040%
289	11.763	11.754	11.779	VV	459	4662	0.16%	0.003%
290	11.791	11.779	11.808	VV	401	5545	0.19%	0.004%
291	11.833	11.808	11.860	VV	910	11653	0.40%	0.009%
292	11.892	11.860	11.932	PV	3789	59370	2.04%	0.044%
293	11.947	11.932	11.966	VV	589	9343	0.32%	0.007%
294	11.988	11.966	12.003	VV	1267	15054	0.52%	0.011%
295	12.020	12.003	12.038	VV	1597	19312	0.66%	0.014%
296	12.057	12.038	12.070	VV	1138	15709	0.54%	0.012%
297	12.103	12.070	12.120	VV	1761	30131	1.04%	0.022%
298	12.137	12.120	12.154	VV	1095	15368	0.53%	0.011%
299	12.166	12.154	12.204	VV	1334	18095	0.62%	0.013%

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300	12.212	12.204	12.219	VV	108	653	0.02%	0.000%
301	12.250	12.219	12.269	PV	352	5078	0.17%	0.004%
302	12.311	12.269	12.329	VV	2099	41519	1.43%	0.031%
303	12.343	12.329	12.367	VV	1529	19229	0.66%	0.014%
304	12.400	12.367	12.439	VV	4480	67089	2.30%	0.049%
305	12.462	12.439	12.503	VV	3193	44558	1.53%	0.033%
306	12.567	12.503	12.624	VV	178770	2488793	85.50%	1.833%
307	12.641	12.624	12.657	VV	2786	39883	1.37%	0.029%
308	12.672	12.657	12.683	VV	1362	18800	0.65%	0.014%
309	12.689	12.683	12.703	VV	1134	12227	0.42%	0.009%
310	12.718	12.703	12.763	VV	1033	26963	0.93%	0.020%
311	12.792	12.763	12.819	VV	1026	24855	0.85%	0.018%
312	12.839	12.819	12.867	VV	1322	25516	0.88%	0.019%
313	12.892	12.867	12.915	VV	1987	36378	1.25%	0.027%
314	12.950	12.915	12.979	VV	3425	57758	1.98%	0.043%
315	13.006	12.979	13.057	VV	22534	284297	9.77%	0.209%
316	13.074	13.057	13.103	VV	738	14847	0.51%	0.011%
317	13.109	13.103	13.118	VV	488	3438	0.12%	0.003%
318	13.142	13.118	13.155	VV	475	7235	0.25%	0.005%
319	13.187	13.155	13.235	VV	4312	86484	2.97%	0.064%
320	13.251	13.235	13.277	VV	1344	18293	0.63%	0.013%
321	13.304	13.277	13.330	PV	19336	217592	7.48%	0.160%
322	13.359	13.330	13.378	VV	2528	44145	1.52%	0.033%
323	13.394	13.378	13.425	VV	1731	23968	0.82%	0.018%
324	13.441	13.425	13.457	VV	472	5997	0.21%	0.004%
325	13.480	13.457	13.488	VV	749	9082	0.31%	0.007%
326	13.498	13.488	13.504	VV	672	5927	0.20%	0.004%
327	13.512	13.504	13.530	VV	745	7463	0.26%	0.005%
328	13.575	13.530	13.609	PV	12957	207147	7.12%	0.153%
329	13.628	13.609	13.687	VV	7819	170611	5.86%	0.126%
330	13.705	13.687	13.722	VV	1475	21775	0.75%	0.016%
331	13.733	13.722	13.742	VV	730	7342	0.25%	0.005%
332	13.792	13.742	13.859	VV	54272	725303	24.92%	0.534%
333	13.894	13.859	13.924	VV	3214	59380	2.04%	0.044%
334	13.948	13.924	13.955	PV	730	8399	0.29%	0.006%
335	13.962	13.955	13.982	VV	869	10690	0.37%	0.008%
336	14.005	13.982	14.025	VV	1942	28890	0.99%	0.021%
337	14.042	14.025	14.059	VV	1532	19725	0.68%	0.015%
338	14.103	14.059	14.124	VV	3038	59469	2.04%	0.044%
339	14.153	14.124	14.192	VV	5258	102160	3.51%	0.075%
340	14.212	14.192	14.232	VV	1554	19921	0.68%	0.015%
341	14.241	14.232	14.252	VV	330	2326	0.08%	0.002%
342	14.278	14.252	14.320	VV	1154	24146	0.83%	0.018%
343	14.334	14.320	14.338	VV	179	1696	0.06%	0.001%
344	14.376	14.338	14.408	VV	1125	31137	1.07%	0.023%
345	14.428	14.408	14.435	VV	589	7670	0.26%	0.006%
346	14.441	14.435	14.445	VV	435	2417	0.08%	0.002%
347	14.447	14.445	14.453	VV	453	1770	0.06%	0.001%
348	14.463	14.453	14.475	VV	525	5006	0.17%	0.004%
349	14.482	14.475	14.494	VV	471	2920	0.10%	0.002%
350	14.514	14.494	14.521	PV	1123	9776	0.34%	0.007%
351	14.542	14.521	14.562	VV	3360	55470	1.91%	0.041%

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352	14.567	14.562	14.600	VV	1758	32551	1.12%	0.024%
353	14.626	14.600	14.648	VV	2871	50091	1.72%	0.037%
354	14.666	14.648	14.685	VV	1180	17206	0.59%	0.013%
355	14.717	14.685	14.754	VV	8376	132071	4.54%	0.097%
356	14.774	14.754	14.795	VV	2755	46811	1.61%	0.034%
357	14.811	14.795	14.833	VV	2814	44394	1.53%	0.033%
358	14.841	14.833	14.854	VV	1080	10643	0.37%	0.008%
359	14.874	14.854	14.898	VV	3207	38848	1.33%	0.029%
360	14.932	14.898	14.962	PV	5837	83513	2.87%	0.062%
361	14.990	14.962	15.018	VV	1088	25290	0.87%	0.019%
362	15.053	15.018	15.089	VV	120035	1591897	54.69%	1.172%
363	15.109	15.089	15.120	VV	610	6560	0.23%	0.005%
364	15.135	15.120	15.151	VV	908	8793	0.30%	0.006%
365	15.184	15.151	15.203	VV	10960	128779	4.42%	0.095%
366	15.225	15.203	15.242	VV	12130	143511	4.93%	0.106%
367	15.257	15.242	15.281	VV	7090	84741	2.91%	0.062%
368	15.297	15.281	15.307	VV	729	6561	0.23%	0.005%
369	15.345	15.307	15.372	VV	2189	40456	1.39%	0.030%
370	15.394	15.372	15.407	VV	990	11954	0.41%	0.009%
371	15.422	15.407	15.437	VV	675	8079	0.28%	0.006%
372	15.451	15.437	15.458	PV	213	2077	0.07%	0.002%
373	15.484	15.458	15.502	VV	1710	23900	0.82%	0.018%
374	15.508	15.502	15.515	VV	927	6414	0.22%	0.005%
375	15.530	15.515	15.537	VV	1009	12361	0.42%	0.009%
376	15.539	15.537	15.556	VV	883	6715	0.23%	0.005%
377	15.568	15.556	15.573	VV	718	5079	0.17%	0.004%
378	15.593	15.573	15.601	VV	902	11452	0.39%	0.008%
379	15.636	15.601	15.713	VV	53392	928855	31.91%	0.684%
380	15.738	15.713	15.749	VV	1450	26179	0.90%	0.019%
381	15.777	15.749	15.803	VV	9692	155454	5.34%	0.114%
382	15.824	15.803	15.836	VV	3713	61806	2.12%	0.046%
383	15.856	15.836	15.882	VV	6181	111281	3.82%	0.082%
384	15.908	15.882	15.932	VV	2950	70764	2.43%	0.052%
385	15.939	15.932	15.951	VV	1446	15403	0.53%	0.011%
386	15.991	15.951	16.015	VV	6479	136248	4.68%	0.100%
387	16.022	16.015	16.065	VV	3802	79824	2.74%	0.059%
388	16.073	16.065	16.084	VV	1850	20736	0.71%	0.015%
389	16.100	16.084	16.123	VV	2604	46143	1.59%	0.034%
390	16.157	16.123	16.180	VV	3763	86031	2.96%	0.063%
391	16.192	16.180	16.205	VV	2769	35897	1.23%	0.026%
392	16.211	16.205	16.217	VV	2321	15386	0.53%	0.011%
393	16.224	16.217	16.232	VV	1946	16418	0.56%	0.012%
394	16.248	16.232	16.252	VV	1834	20005	0.69%	0.015%
395	16.280	16.252	16.325	VV	9770	188503	6.48%	0.139%
396	16.336	16.325	16.357	VV	2505	33793	1.16%	0.025%
397	16.376	16.357	16.381	VV	1519	17984	0.62%	0.013%
398	16.384	16.381	16.404	VV	1270	9947	0.34%	0.007%
399	16.408	16.404	16.413	VV	296	1290	0.04%	0.001%
400	16.419	16.413	16.427	VV	619	2672	0.09%	0.002%
401	16.467	16.427	16.492	PV	2859	60709	2.09%	0.045%
402	16.499	16.492	16.510	VV	1515	12698	0.44%	0.009%
403	16.526	16.510	16.538	VV	1402	14879	0.51%	0.011%
404	16.582	16.538	16.614	VV	5109	118398	4.07%	0.087%

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405	16.618	16.614	16.624	VV	1830	10121	0.35%	0.007%
406	16.655	16.624	16.694	VV	11228	222043	7.63%	0.164%
407	16.746	16.694	16.792	PV	16705	434152	14.92%	0.320%
408	16.847	16.792	16.859	VV	4071	87551	3.01%	0.064%
409	16.877	16.859	16.897	VV	5264	92956	3.19%	0.068%
410	16.930	16.897	16.947	VV	4690	107050	3.68%	0.079%
411	16.982	16.947	17.004	VV	5313	135599	4.66%	0.100%
412	17.066	17.004	17.091	VV	13137	359546	12.35%	0.265%
413	17.122	17.091	17.165	VV	14451	304332	10.46%	0.224%
414	17.228	17.165	17.248	VV	14917	385831	13.26%	0.284%
415	17.286	17.248	17.296	VV	12118	301432	10.36%	0.222%
416	17.303	17.296	17.352	VV	10802	260638	8.95%	0.192%
417	17.365	17.352	17.376	VV	5952	81379	2.80%	0.060%
418	17.385	17.376	17.397	VV	5541	63385	2.18%	0.047%
419	17.443	17.397	17.454	VV	7564	218589	7.51%	0.161%
420	17.484	17.454	17.510	VV	9462	257508	8.85%	0.190%
421	17.555	17.510	17.570	VV	8469	252744	8.68%	0.186%
422	17.602	17.570	17.636	VV	17313	472409	16.23%	0.348%
423	17.652	17.636	17.663	VV	13167	183348	6.30%	0.135%
424	17.681	17.663	17.701	VV	15966	281136	9.66%	0.207%
425	17.719	17.701	17.729	VV	8623	133793	4.60%	0.099%
426	17.734	17.729	17.741	VV	8408	56797	1.95%	0.042%
427	17.760	17.741	17.777	VV	9231	175770	6.04%	0.129%
428	17.799	17.777	17.825	VV	14040	302947	10.41%	0.223%
429	17.863	17.825	17.874	VV	12404	297580	10.22%	0.219%
430	17.889	17.874	17.898	VV	10164	134319	4.61%	0.099%
431	17.916	17.898	17.931	VV	10822	200879	6.90%	0.148%
432	17.976	17.931	17.986	VV	12297	360075	12.37%	0.265%
433	18.036	17.986	18.058	VV	15440	589001	20.24%	0.434%
434	18.083	18.058	18.087	VV	17825	276655	9.50%	0.204%
435	18.121	18.087	18.150	VV	25020	758786	26.07%	0.559%
436	18.168	18.150	18.186	VV	15499	303493	10.43%	0.224%
437	18.208	18.186	18.230	VV	18254	423978	14.57%	0.312%
438	18.271	18.230	18.327	VV	41418	1372368	47.15%	1.011%
439	18.337	18.327	18.342	VV	18418	163022	5.60%	0.120%
440	18.352	18.342	18.373	VV	18833	310808	10.68%	0.229%
441	18.377	18.373	18.383	VV	15550	100459	3.45%	0.074%
442	18.406	18.383	18.418	VV	19894	371971	12.78%	0.274%
443	18.444	18.418	18.455	VV	23038	449106	15.43%	0.331%
444	18.485	18.455	18.521	VV	56418	1494219	51.33%	1.100%
445	18.544	18.521	18.569	VV	35174	782613	26.89%	0.576%
446	18.585	18.569	18.596	VV	23881	372123	12.78%	0.274%
447	18.640	18.596	18.662	VV	46188	1251966	43.01%	0.922%
448	18.670	18.662	18.694	VV	29991	523531	17.99%	0.386%
449	18.707	18.694	18.729	VV	25679	517478	17.78%	0.381%
450	18.752	18.729	18.782	VV	36246	922297	31.69%	0.679%
451	18.801	18.782	18.825	VV	27647	693282	23.82%	0.511%
452	18.831	18.825	18.835	VV	26690	149095	5.12%	0.110%
453	18.847	18.835	18.863	VV	28174	468572	16.10%	0.345%
454	18.903	18.863	18.909	VV	30340	771427	26.50%	0.568%
455	18.944	18.909	18.981	VV	47805	1561366	53.64%	1.150%
456	18.985	18.981	18.996	VV	29914	269756	9.27%	0.199%

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457	19.004	18.996	19.009	VV	31347	233086	8.01%	0.172%
458	19.016	19.009	19.028	VV	31175	343405	11.80%	0.253%
459	19.063	19.028	19.094	VV	53555	1647957	56.62%	1.214%
460	19.113	19.094	19.135	VV	50588	1089607	37.43%	0.802%
461	19.145	19.135	19.160	VV	38151	545320	18.73%	0.402%
462	19.165	19.160	19.185	VV	36368	513015	17.62%	0.378%
463	19.195	19.185	19.200	VV	37378	326733	11.22%	0.241%
464	19.208	19.200	19.213	VV	38129	298086	10.24%	0.220%
465	19.237	19.213	19.253	VV	41551	938616	32.25%	0.691%
466	19.270	19.253	19.284	VV	40697	712860	24.49%	0.525%
467	19.315	19.284	19.338	VV	72192	1857030	63.80%	1.368%
468	19.357	19.338	19.373	VV	54913	1071879	36.82%	0.789%
469	19.397	19.373	19.417	VV	52409	1317359	45.26%	0.970%
470	19.423	19.417	19.428	VV	46242	296164	10.17%	0.218%
471	19.465	19.428	19.509	VV	55391	2345371	80.58%	1.727%
472	19.519	19.509	19.524	VV	45379	392109	13.47%	0.289%
473	19.530	19.524	19.539	VV	46834	420824	14.46%	0.310%
474	19.557	19.539	19.576	VV	51329	1043099	35.84%	0.768%
475	19.584	19.576	19.595	VV	46273	510352	17.53%	0.376%
476	19.608	19.595	19.620	VV	47368	713392	24.51%	0.525%
477	19.627	19.620	19.636	VV	46217	436743	15.00%	0.322%
478	19.642	19.636	19.648	VV	47072	306626	10.53%	0.226%
479	19.657	19.648	19.662	VV	46972	408297	14.03%	0.301%
480	19.668	19.662	19.679	VV	46396	462786	15.90%	0.341%
481	19.746	19.679	19.754	VV	54934	2223826	76.40%	1.638%
482	19.774	19.754	19.794	VV	63896	1382215	47.49%	1.018%
483	19.803	19.794	19.825	VV	57629	1036745	35.62%	0.764%
484	19.847	19.825	19.861	VV	60319	1238934	42.56%	0.912%
485	19.868	19.861	19.886	VV	59239	839216	28.83%	0.618%
486	19.912	19.886	19.938	VV	62373	1785468	61.34%	1.315%
487	19.955	19.938	19.962	VV	57632	816508	28.05%	0.601%
488	19.972	19.962	19.982	VV	59005	698896	24.01%	0.515%
489	20.011	19.982	20.028	VV	60487	1601349	55.01%	1.179%
490	20.043	20.028	20.057	VV	58768	1019950	35.04%	0.751%
491	20.061	20.057	20.065	VV	58667	289926	9.96%	0.214%
492	20.100	20.065	20.125	VV	78164	2522093	86.65%	1.857%
493	20.131	20.125	20.144	VV	68437	748249	25.71%	0.551%
494	20.161	20.144	20.167	VV	69972	952233	32.71%	0.701%
495	20.176	20.167	20.193	VV	70955	1077969	37.03%	0.794%
496	20.198	20.193	20.203	VV	66762	395522	13.59%	0.291%
497	20.212	20.203	20.229	VV	67681	1000920	34.39%	0.737%
498	20.236	20.229	20.246	VV	65521	668657	22.97%	0.492%
499	20.266	20.246	20.271	VV	68386	956189	32.85%	0.704%
500	20.292	20.271	20.315	VV	74246	1897044	65.17%	1.397%
501	20.328	20.315	20.333	VV	73966	722165	24.81%	0.532%
502	20.342	20.333	20.347	VV	76533	637580	21.90%	0.470%
503	20.354	20.347	20.374	VV	78324	1187212	40.79%	0.874%
504	20.396	20.374	20.414	VV	85394	1933515	66.43%	1.424%
505	20.422	20.414	20.455	VV	84805	2014580	69.21%	1.484%
506	20.478	20.455	20.502	VV	87247	2273702	78.11%	1.675%
507	20.519	20.502	20.525	VV	77130	1023063	35.15%	0.753%
508	20.537	20.525	20.543	VV	79807	876478	30.11%	0.646%
509	20.556	20.543	20.571	VV	83044	1326503	45.57%	0.977%

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510	20.597	20.571	20.604	VV	75995	1443739	49.60%	1.063%
511	20.639	20.604	20.661	VV	90619	2910770	100.00%	2.144%
512	20.671	20.661	20.682	VV	83913	1016359	34.92%	0.749%
513	20.688	20.682	20.695	VV	85549	682464	23.45%	0.503%
514	20.703	20.695	20.716	VV	86582	1060159	36.42%	0.781%
515	20.723	20.716	20.734	VV	85916	900230	30.93%	0.663%
516	20.745	20.734	20.771	VV	85486	1836126	63.08%	1.352%
517	20.778	20.771	20.807	VV	80751	1609419	55.29%	1.185%
518	20.811	20.807	20.823	VV	71766	691127	23.74%	0.509%
519	20.835	20.823	20.859	VV	77032	1560438	53.61%	1.149%
520	20.879	20.859	20.885	VV	65948	1006587	34.58%	0.741%
521	20.901	20.885	20.907	VV	68733	907649	31.18%	0.668%
522	20.911	20.907	20.914	VV	67231	274349	9.43%	0.202%
523	20.925	20.914	20.932	VV	69093	732373	25.16%	0.539%
524	20.945	20.932	20.957	VV	73405	1051538	36.13%	0.774%
525	20.964	20.957	20.985	VV	71491	1156834	39.74%	0.852%
526	20.999	20.985	21.013	VV	67335	1106921	38.03%	0.815%
527	21.029	21.013	21.037	VV	67430	958905	32.94%	0.706%
528	21.057	21.037	21.065	VV	69231	1136342	39.04%	0.837%
529	21.078	21.065	21.100	VV	70917	1428477	49.08%	1.052%
530	21.107	21.100	21.119	VV	65687	713181	24.50%	0.525%
531	21.123	21.119	21.143	VV	61663	837559	28.77%	0.617%
532	21.149	21.143	21.175	VV	59231	1102980	37.89%	0.812%
533	21.182	21.175	21.202	VV	54721	861673	29.60%	0.635%
534	21.207	21.202	21.212	VV	54055	300796	10.33%	0.222%
535	21.235	21.212	21.260	VV	57308	1585622	54.47%	1.168%
536	21.272	21.260	21.279	VV	52740	571449	19.63%	0.421%
537	21.284	21.279	21.289	VV	52451	313564	10.77%	0.231%
538	21.299	21.289	21.312	VV	55795	754019	25.90%	0.555%
539	21.322	21.312	21.330	VV	54359	568243	19.52%	0.419%
540	21.337	21.330	21.346	VV	53804	491635	16.89%	0.362%
541	21.351	21.346	21.353	VV	50922	230196	7.91%	0.170%
542	21.383	21.353	21.404	VV	54818	1621170	55.70%	1.194%
543	21.407	21.404	21.463	VV	53181	1642467	56.43%	1.210%
544	21.467	21.463	21.474	VV	41279	263252	9.04%	0.194%
545	21.479	21.474	21.493	VV	40913	449424	15.44%	0.331%
546	21.517	21.493	21.523	VV	38017	661372	22.72%	0.487%
547	21.525	21.523	21.534	VV	37042	237282	8.15%	0.175%
548	21.540	21.534	21.547	VV	36731	269997	9.28%	0.199%
549	21.560	21.547	21.568	VV	38129	468576	16.10%	0.345%
550	21.584	21.568	21.593	VV	39697	574644	19.74%	0.423%
551	21.605	21.593	21.617	VV	43802	565119	19.41%	0.416%
552	21.625	21.617	21.637	VV	41118	487734	16.76%	0.359%
553	21.642	21.637	21.651	VV	40379	310808	10.68%	0.229%
554	21.662	21.651	21.668	VV	42463	420427	14.44%	0.310%
555	21.678	21.668	21.706	VV	42713	882413	30.32%	0.650%
556	21.710	21.706	21.720	VV	34050	273317	9.39%	0.201%
557	21.731	21.720	21.738	VV	32561	360677	12.39%	0.266%
558	21.747	21.738	21.754	VV	31889	290580	9.98%	0.214%
559	21.757	21.754	21.764	VV	31718	187733	6.45%	0.138%
560	21.768	21.764	21.782	VV	30806	329777	11.33%	0.243%
561	21.789	21.782	21.796	VV	29665	235067	8.08%	0.173%

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562	21.807	21.796	21.817	VV	28767	347894	11.95%	0.256%
563	21.823	21.817	21.847	VV	28535	445147	15.29%	0.328%
564	21.870	21.847	21.888	VV	24880	572107	19.65%	0.421%
565	21.897	21.888	21.904	VV	20846	183763	6.31%	0.135%
566	21.911	21.904	21.916	VV	21961	157930	5.43%	0.116%
567	21.919	21.916	21.922	VV	20750	66942	2.30%	0.049%
568	21.929	21.922	21.937	VV	23358	203301	6.98%	0.150%
569	21.941	21.937	21.949	VV	23211	154847	5.32%	0.114%
570	21.972	21.949	21.984	VV	25371	487939	16.76%	0.359%
571	22.003	21.984	22.015	VV	24892	421755	14.49%	0.311%
572	22.025	22.015	22.037	VV	22120	282160	9.69%	0.208%
573	22.043	22.037	22.055	VV	21425	215174	7.39%	0.158%
574	22.064	22.055	22.069	VV	19873	148187	5.09%	0.109%
575	22.091	22.069	22.105	VV	24042	454192	15.60%	0.335%
576	22.115	22.105	22.132	VV	22634	346871	11.92%	0.255%
577	22.137	22.132	22.149	VV	20630	202553	6.96%	0.149%
578	22.152	22.149	22.155	VV	19590	77678	2.67%	0.057%
579	22.166	22.155	22.229	VV	22969	720803	24.76%	0.531%
580	22.238	22.229	22.247	VV	7777	71370	2.45%	0.053%
581	22.261	22.247	22.290	VV	9888	134738	4.63%	0.099%

Sum of corrected areas: 135779101

FG102124.M Mon Nov 04 03:05:05 2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG110124\
Data File : FG014624.D
Signal(s) : FID1A.ch
Acq On : 01 Nov 2024 16:09
Operator : YP\AJ
Sample : P4663-08
Misc :
ALS Vial : 24 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Nov 04 01:30:47 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG102124.M
Quant Title :
QLast Update : Mon Oct 21 17:03:32 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal Phase : Rxi-1ms
Signal Info : 20mx0.18mmx0.18um

Instrument :
FID_G
ClientSampleId :
RES-BUILDING-PAD-NO-2

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/04/2024
Supervised By :Ankita Jodhani 11/04/2024

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
9) S TETRACOSANE-d50 (SURR...	15.054	1784237	14.918	ug/mlm
Target Compounds				

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

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG110124\
Data File : FG014624.D
Signal(s) : FID1A.ch
Acq On : 01 Nov 2024 16:09
Operator : YP\AJ
Sample : P4663-08
Misc :
ALS Vial : 24 Sample Multiplier: 1

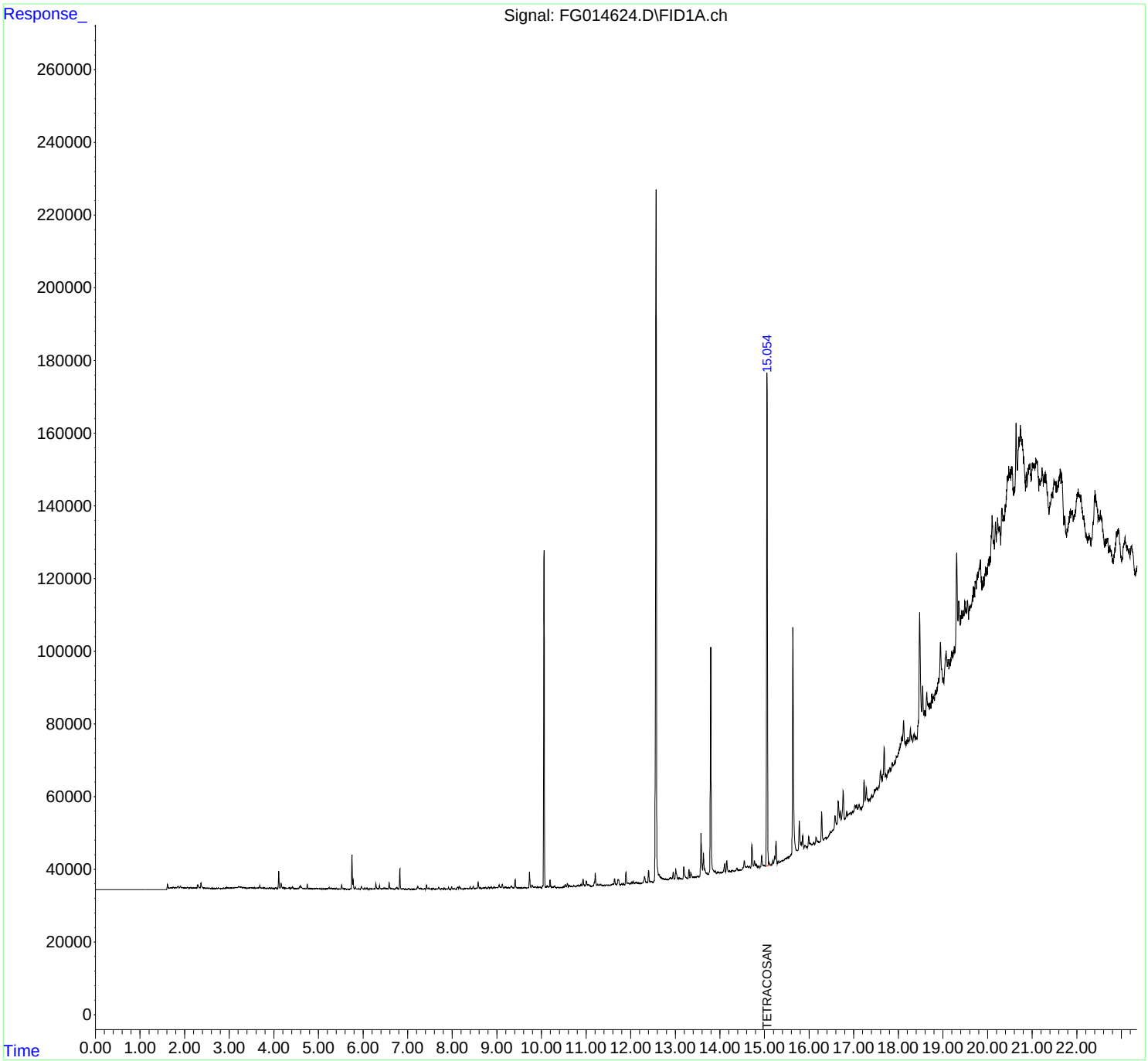
Integration File: autoint1.e
Quant Time: Nov 04 01:30:47 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG102124.M
Quant Title :
QLast Update : Mon Oct 21 17:03:32 2024
Response via : Initial Calibration
Integrator: ChemStation

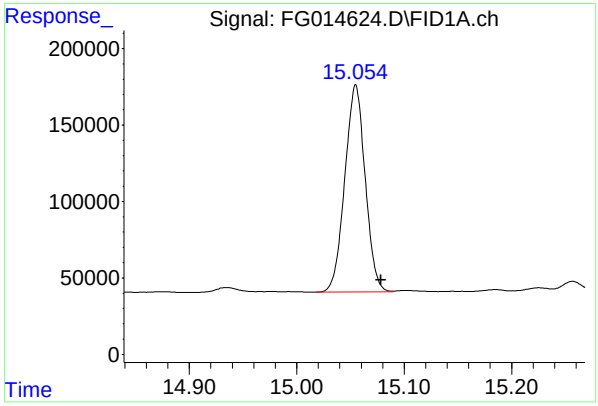
Volume Inj. : 1uL
Signal Phase : Rxi-1ms
Signal Info : 20mx0.18mmx0.18um

Instrument :
FID_G
ClientSampleId :
RES-BUILDING-PAD-NO-2

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/04/2024
Supervised By :Ankita Jodhani 11/04/2024





#9 TETRACOSANE-d50 (SURROGATE)

R.T.: 15.054 min
Delta R.T.: -0.024 mir
Response: 1784237
Conc: 14.92 ug/m

Instrument :
FID_G
ClientSampleId :
RES-BUILDING-PAD-NO-2

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/04/2024
Supervised By :Ankita Jodhani 11/04/2024

10

A B C D E F G H I J

10

Instrument :
FID_G
ClientSampleId :
RES-BUILDING-PAD-NO-2

rteres

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/04/2024
Supervised By :Ankita Jodhani 11/04/2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG11012
Data File : FG014624.D
Signal(s) : FID1A.ch
Acq On : 01 Nov 2024 16:09
Sample : P4663-08
Misc :
ALS Vial : 24 Sample Multiplier: 1

Integration File: Sample.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG102124.M
Title :

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	1.967	1.951	1.973	PV	120	972	0.04%	0.001%
2	1.977	1.973	1.989	VV	102	573	0.02%	0.001%
3	1.993	1.989	2.027	PV	97	956	0.04%	0.001%
4	2.041	2.027	2.046	PV	101	570	0.02%	0.001%
5	2.064	2.046	2.078	VV	317	3240	0.12%	0.005%
6	2.082	2.078	2.094	VV	181	1096	0.04%	0.002%
7	2.099	2.094	2.108	PV	110	707	0.03%	0.001%
8	2.125	2.108	2.138	VV	160	2184	0.08%	0.003%
9	2.153	2.138	2.183	VV	149	3008	0.11%	0.004%
10	2.193	2.183	2.198	VV	133	735	0.03%	0.001%
11	2.208	2.198	2.215	VV	115	861	0.03%	0.001%
12	2.218	2.215	2.223	VV	137	457	0.02%	0.001%
13	2.228	2.223	2.254	VV	99	1360	0.05%	0.002%
14	2.264	2.254	2.278	VV	135	1313	0.05%	0.002%
15	2.295	2.278	2.353	VV	1054	22088	0.83%	0.032%
16	2.365	2.353	2.411	VV	1497	22085	0.83%	0.032%
17	2.415	2.411	2.421	VV	249	1132	0.04%	0.002%
18	2.427	2.421	2.446	VV	204	2348	0.09%	0.003%
19	2.449	2.446	2.455	VV	182	778	0.03%	0.001%
20	2.461	2.455	2.483	VV	170	1952	0.07%	0.003%
21	2.488	2.483	2.513	VV	130	1194	0.04%	0.002%
22	2.523	2.513	2.545	VV	128	1328	0.05%	0.002%
23	2.550	2.545	2.555	VV	71	351	0.01%	0.001%
24	2.564	2.555	2.579	VV	125	1017	0.04%	0.001%
25	2.593	2.579	2.621	VV	87	1381	0.05%	0.002%
26	2.628	2.621	2.652	PV	105	1126	0.04%	0.002%
27	2.656	2.652	2.670	PV	83	353	0.01%	0.001%
28	2.674	2.670	2.692	PV	55	455	0.02%	0.001%
29	2.701	2.692	2.707	VV	93	476	0.02%	0.001%
30	2.717	2.707	2.734	VV	133	1487	0.06%	0.002%
31	2.758	2.734	2.773	VV	128	2333	0.09%	0.003%
32	2.777	2.773	2.805	VV	97	1530	0.06%	0.002%
33	2.812	2.805	2.837	VV	109	1445	0.05%	0.002%
34	2.846	2.837	2.858	VV	105	1044	0.04%	0.001%
35	2.872	2.858	2.902	VV	140	2786	0.10%	0.004%
36	2.911	2.902	2.920	VV	206	1688	0.06%	0.002%

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Instrument :
FID_G
ClientSampleId :
RES-BUILDING-PAD-NO-2

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/04/2024
Supervised By :Ankita Jodhani 11/04/2024

A B C D E F G H I J

rteres

37	2.922	2.920	2.926	VV	208	571	0.02%	0.001%
38	2.947	2.926	2.977	VV	337	7492	0	
39	2.981	2.977	3.007	VV	208	3111	0	
40	3.012	3.007	3.019	VV	228	1533	0	
41	3.023	3.019	3.034	VV	256	1889	0	
42	3.041	3.034	3.044	VV	197	1072	0	
43	3.054	3.044	3.057	VV	195	1369	0.05%	0.002%
44	3.072	3.057	3.097	VV	311	5947	0.22%	0.009%
45	3.112	3.097	3.123	VV	275	3929	0.15%	0.006%
46	3.129	3.123	3.137	VV	286	2258	0.09%	0.003%
47	3.147	3.137	3.161	VV	342	4290	0.16%	0.006%
48	3.188	3.161	3.195	VV	371	6729	0.25%	0.010%
49	3.208	3.195	3.232	VV	668	11743	0.44%	0.017%
50	3.238	3.232	3.320	VV	526	21660	0.82%	0.031%
51	3.324	3.320	3.364	VV	396	7561	0.28%	0.011%
52	3.368	3.364	3.385	VV	260	2882	0.11%	0.004%
53	3.392	3.385	3.407	VV	245	2789	0.11%	0.004%
54	3.415	3.407	3.430	VV	263	3024	0.11%	0.004%
55	3.435	3.430	3.457	VV	267	3705	0.14%	0.005%
56	3.470	3.457	3.504	VV	417	9031	0.34%	0.013%
57	3.515	3.504	3.543	VV	347	6582	0.25%	0.009%
58	3.548	3.543	3.567	VV	334	3986	0.15%	0.006%
59	3.570	3.567	3.574	VV	295	1172	0.04%	0.002%
60	3.577	3.574	3.599	VV	288	3640	0.14%	0.005%
61	3.604	3.599	3.614	VV	273	2073	0.08%	0.003%
62	3.622	3.614	3.627	VV	288	1949	0.07%	0.003%
63	3.641	3.627	3.654	VV	316	4430	0.17%	0.006%
64	3.658	3.654	3.666	VV	257	1773	0.07%	0.003%
65	3.684	3.666	3.717	VV	800	13688	0.52%	0.020%
66	3.725	3.717	3.741	VV	273	3412	0.13%	0.005%
67	3.752	3.741	3.763	VV	251	2962	0.11%	0.004%
68	3.783	3.763	3.798	VV	336	5591	0.21%	0.008%
69	3.803	3.798	3.811	VV	246	1693	0.06%	0.002%
70	3.821	3.811	3.830	VV	235	2370	0.09%	0.003%
71	3.834	3.830	3.839	VV	225	1012	0.04%	0.001%
72	3.844	3.839	3.852	VV	198	1432	0.05%	0.002%
73	3.857	3.852	3.879	VV	245	3264	0.12%	0.005%
74	3.899	3.879	3.903	VV	203	2609	0.10%	0.004%
75	3.910	3.903	3.934	VV	256	3836	0.14%	0.006%
76	3.939	3.934	3.957	VV	217	2661	0.10%	0.004%
77	3.961	3.957	4.002	VV	227	4767	0.18%	0.007%
78	4.009	4.002	4.014	VV	218	1218	0.05%	0.002%
79	4.018	4.014	4.021	VV	193	742	0.03%	0.001%
80	4.040	4.021	4.074	VV	395	7968	0.30%	0.011%
81	4.110	4.074	4.136	VV	4894	51222	1.93%	0.073%
82	4.165	4.136	4.212	VV	1563	27803	1.05%	0.040%
83	4.225	4.212	4.254	VV	354	7006	0.26%	0.010%
84	4.257	4.254	4.263	VV	244	1092	0.04%	0.002%
85	4.281	4.263	4.296	VV	228	4060	0.15%	0.006%
86	4.303	4.296	4.328	VV	268	4257	0.16%	0.006%
87	4.349	4.328	4.367	VV	450	7266	0.27%	0.010%
88	4.420	4.367	4.454	VV	569	15156	0.57%	0.022%
89	4.458	4.454	4.477	VV	199	2497	0.09%	0.004%

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Instrument :
FID_G
ClientSampleId :
RES-BUILDING-PAD-NO-2

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/04/2024
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rteres

90	4.480	4.477	4.517	VV	223	3776	0.14%	0.005%
91	4.522	4.517	4.532	VV	161	1197		
92	4.539	4.532	4.549	VV	243	2001		
93	4.579	4.549	4.585	VV	704	9417		
94	4.596	4.585	4.612	VV	1038	12098		
95	4.622	4.612	4.641	VV	566	6943		
96	4.647	4.641	4.654	VV	220	1551	0.06%	0.002%
97	4.658	4.654	4.670	VV	242	1965	0.07%	0.003%
98	4.674	4.670	4.687	VV	229	1916	0.07%	0.003%
99	4.699	4.687	4.725	VV	241	3973	0.15%	0.006%
100	4.750	4.725	4.781	VV	1332	16155	0.61%	0.023%
101	4.796	4.781	4.811	VV	266	3570	0.13%	0.005%
102	4.816	4.811	4.820	VV	223	1000	0.04%	0.001%
103	4.822	4.820	4.827	VV	208	848	0.03%	0.001%
104	4.829	4.827	4.845	VV	210	1746	0.07%	0.003%
105	4.849	4.845	4.859	VV	163	1030	0.04%	0.001%
106	4.891	4.859	4.899	VV	182	3371	0.13%	0.005%
107	4.905	4.899	4.930	VV	193	2787	0.10%	0.004%
108	4.953	4.930	4.984	VV	305	6518	0.25%	0.009%
109	4.990	4.984	4.995	VV	173	1035	0.04%	0.001%
110	5.002	4.995	5.016	VV	200	1992	0.08%	0.003%
111	5.021	5.016	5.038	VV	152	1741	0.07%	0.002%
112	5.044	5.038	5.054	VV	152	1187	0.04%	0.002%
113	5.057	5.054	5.072	VV	167	1264	0.05%	0.002%
114	5.078	5.072	5.093	VV	142	1231	0.05%	0.002%
115	5.107	5.093	5.112	VV	152	1146	0.04%	0.002%
116	5.116	5.112	5.119	VV	101	357	0.01%	0.001%
117	5.127	5.119	5.154	VV	139	2088	0.08%	0.003%
118	5.159	5.154	5.162	VV	142	577	0.02%	0.001%
119	5.174	5.162	5.207	VV	193	3554	0.13%	0.005%
120	5.239	5.207	5.260	VV	497	8787	0.33%	0.013%
121	5.276	5.260	5.299	VV	367	5731	0.22%	0.008%
122	5.303	5.299	5.321	VV	233	2254	0.08%	0.003%
123	5.333	5.321	5.370	VV	210	4384	0.17%	0.006%
124	5.400	5.370	5.418	VV	409	6362	0.24%	0.009%
125	5.422	5.418	5.440	VV	127	1414	0.05%	0.002%
126	5.448	5.440	5.451	VV	124	662	0.02%	0.001%
127	5.464	5.451	5.474	VV	164	1702	0.06%	0.002%
128	5.484	5.474	5.492	VV	137	1174	0.04%	0.002%
129	5.522	5.492	5.550	VV	1305	15828	0.60%	0.023%
130	5.558	5.550	5.582	VV	257	3019	0.11%	0.004%
131	5.589	5.582	5.609	VV	197	2263	0.09%	0.003%
132	5.613	5.609	5.630	VV	100	770	0.03%	0.001%
133	5.644	5.630	5.649	PV	82	571	0.02%	0.001%
134	5.654	5.649	5.662	VV	98	549	0.02%	0.001%
135	5.667	5.662	5.675	VV	109	535	0.02%	0.001%
136	5.689	5.675	5.696	VV	79	831	0.03%	0.001%
137	5.721	5.696	5.730	VV	259	3264	0.12%	0.005%
138	5.752	5.730	5.769	VV	9562	90650	3.41%	0.130%
139	5.779	5.769	5.805	VV	2575	25019	0.94%	0.036%
140	5.825	5.805	5.862	VV	666	10045	0.38%	0.014%
141	5.867	5.862	5.873	VV	125	710	0.03%	0.001%

Instrument :
FID_G
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RES-BUILDING-PAD-NO-2

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/04/2024
Supervised By :Ankita Jodhani 11/04/2024

					rteres			
142	5.878	5.873	5.882	VV	136	615	0.02%	0.001%
143	5.910	5.882	5.934	VV	239	4386		
144	5.964	5.934	6.025	VV	849	16147		
145	6.039	6.025	6.065	VV	470	6124		
146	6.091	6.065	6.114	VV	530	8323		
147	6.119	6.114	6.126	VV	156	1008		
148	6.131	6.126	6.136	VV	170	724	0.03%	0.001%
149	6.160	6.136	6.183	VV	273	4802	0.18%	0.007%
150	6.196	6.183	6.217	VV	280	3266	0.12%	0.005%
151	6.230	6.217	6.240	VV	214	2138	0.08%	0.003%
152	6.255	6.240	6.268	VV	239	2985	0.11%	0.004%
153	6.288	6.268	6.323	VV	1656	21405	0.81%	0.031%
154	6.332	6.323	6.352	VV	314	4165	0.16%	0.006%
155	6.369	6.352	6.423	VV	1109	16829	0.63%	0.024%
156	6.442	6.423	6.451	VV	322	3688	0.14%	0.005%
157	6.467	6.451	6.478	VV	479	5863	0.22%	0.008%
158	6.490	6.478	6.504	VV	443	5041	0.19%	0.007%
159	6.507	6.504	6.529	VV	290	3178	0.12%	0.005%
160	6.541	6.529	6.563	VV	298	4835	0.18%	0.007%
161	6.587	6.563	6.623	VV	1895	26207	0.99%	0.038%
162	6.638	6.623	6.659	VV	290	4788	0.18%	0.007%
163	6.666	6.659	6.685	VV	259	2777	0.10%	0.004%
164	6.702	6.685	6.709	VV	184	2215	0.08%	0.003%
165	6.747	6.709	6.752	VV	446	7514	0.28%	0.011%
166	6.758	6.752	6.804	VV	476	8707	0.33%	0.012%
167	6.826	6.804	6.865	VV	5718	57120	2.15%	0.082%
168	6.878	6.865	6.892	VV	303	3829	0.14%	0.005%
169	6.898	6.892	6.903	VV	210	1326	0.05%	0.002%
170	6.910	6.903	6.929	VV	227	2308	0.09%	0.003%
171	6.938	6.929	6.970	VV	181	3362	0.13%	0.005%
172	6.980	6.970	6.998	VV	124	1540	0.06%	0.002%
173	7.014	6.998	7.020	VV	201	1726	0.07%	0.002%
174	7.029	7.020	7.060	VV	340	3990	0.15%	0.006%
175	7.084	7.060	7.099	PV	158	2309	0.09%	0.003%
176	7.103	7.099	7.123	VV	133	1303	0.05%	0.002%
177	7.133	7.123	7.146	VV	153	1424	0.05%	0.002%
178	7.149	7.146	7.163	VV	109	664	0.02%	0.001%
179	7.172	7.163	7.195	VV	91	1100	0.04%	0.002%
180	7.229	7.195	7.265	VV	919	18227	0.69%	0.026%
181	7.283	7.265	7.309	VV	350	6970	0.26%	0.010%
182	7.325	7.309	7.350	VV	249	3890	0.15%	0.006%
183	7.378	7.350	7.382	VV	281	3339	0.13%	0.005%
184	7.385	7.382	7.407	VV	270	2501	0.09%	0.004%
185	7.423	7.407	7.459	VV	1220	15944	0.60%	0.023%
186	7.472	7.459	7.511	VV	411	6188	0.23%	0.009%
187	7.530	7.511	7.550	VV	208	2821	0.11%	0.004%
188	7.566	7.550	7.592	VV	428	5863	0.22%	0.008%
189	7.596	7.592	7.602	VV	142	680	0.03%	0.001%
190	7.607	7.602	7.617	VV	90	636	0.02%	0.001%
191	7.654	7.617	7.674	VV	242	4067	0.15%	0.006%
192	7.698	7.674	7.731	VV	649	9184	0.35%	0.013%
193	7.763	7.731	7.798	VV	273	5429	0.20%	0.008%
194	7.814	7.798	7.847	VV	434	6969	0.26%	0.010%

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Instrument :
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Manual IntegrationsAPPROVED

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					rteres			
195	7.877	7.847	7.891	VV	209	3259	0.12%	0.005%
196	7.917	7.891	7.939	VV	585	5969		
197	7.961	7.939	7.966	PV	80	732		
198	7.987	7.966	8.022	VV	705	8926		
199	8.042	8.022	8.069	VV	305	4307		
200	8.077	8.069	8.089	VV	126	771		
201	8.122	8.089	8.144	VV	632	12082	0.45%	0.017%
202	8.156	8.144	8.175	VV	837	10409	0.39%	0.015%
203	8.186	8.175	8.217	VV	336	4216	0.16%	0.006%
204	8.229	8.217	8.241	VV	185	1615	0.06%	0.002%
205	8.245	8.241	8.251	VV	87	331	0.01%	0.000%
206	8.275	8.251	8.292	PV	278	3738	0.14%	0.005%
207	8.312	8.292	8.347	VV	292	7206	0.27%	0.010%
208	8.358	8.347	8.366	VV	164	1311	0.05%	0.002%
209	8.372	8.366	8.382	VV	123	903	0.03%	0.001%
210	8.402	8.382	8.435	VV	625	8144	0.31%	0.012%
211	8.471	8.435	8.502	VV	770	11556	0.44%	0.017%
212	8.520	8.502	8.532	VV	210	3067	0.12%	0.004%
213	8.538	8.532	8.542	VV	205	1085	0.04%	0.002%
214	8.551	8.542	8.556	VV	291	1884	0.07%	0.003%
215	8.582	8.556	8.619	VV	1861	26711	1.01%	0.038%
216	8.632	8.619	8.651	VV	306	4242	0.16%	0.006%
217	8.659	8.651	8.672	VV	166	1698	0.06%	0.002%
218	8.695	8.672	8.714	VV	363	6893	0.26%	0.010%
219	8.719	8.714	8.724	VV	288	1602	0.06%	0.002%
220	8.744	8.724	8.794	VV	456	10126	0.38%	0.015%
221	8.811	8.794	8.836	VV	544	7557	0.28%	0.011%
222	8.849	8.836	8.857	VV	390	3552	0.13%	0.005%
223	8.874	8.857	8.902	VV	624	9783	0.37%	0.014%
224	8.914	8.902	8.929	VV	266	3560	0.13%	0.005%
225	8.946	8.929	8.973	VV	566	9201	0.35%	0.013%
226	8.990	8.973	9.009	VV	362	6589	0.25%	0.009%
227	9.014	9.009	9.025	VV	350	3045	0.11%	0.004%
228	9.052	9.025	9.092	VV	1060	22650	0.85%	0.032%
229	9.122	9.092	9.160	VV	1237	22319	0.84%	0.032%
230	9.183	9.160	9.195	VV	467	7321	0.28%	0.010%
231	9.200	9.195	9.224	VV	388	5200	0.20%	0.007%
232	9.235	9.224	9.246	VV	272	2982	0.11%	0.004%
233	9.252	9.246	9.257	VV	240	1334	0.05%	0.002%
234	9.268	9.257	9.289	VV	344	4434	0.17%	0.006%
235	9.323	9.289	9.372	VV	689	18487	0.70%	0.027%
236	9.411	9.372	9.451	VV	2372	34110	1.28%	0.049%
237	9.462	9.451	9.477	VV	212	2684	0.10%	0.004%
238	9.499	9.477	9.521	VV	292	4240	0.16%	0.006%
239	9.554	9.521	9.580	VV	205	3517	0.13%	0.005%
240	9.612	9.580	9.639	VV	241	5721	0.22%	0.008%
241	9.646	9.639	9.660	VV	213	2017	0.08%	0.003%
242	9.693	9.660	9.706	VV	193	3585	0.13%	0.005%
243	9.732	9.706	9.762	VV	4488	53401	2.01%	0.077%
244	9.792	9.762	9.822	VV	932	19379	0.73%	0.028%
245	9.834	9.822	9.843	VV	311	3410	0.13%	0.005%
246	9.867	9.843	9.892	VV	450	9072	0.34%	0.013%

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Instrument :
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Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/04/2024
Supervised By :Ankita Jodhani 11/04/2024

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rteres

247	9.897	9.892	9.901	VV	196	864	0.03%	0.001%
248	9.918	9.901	9.935	VV	305	4919		
249	9.949	9.935	9.962	VV	294	3901		
250	9.972	9.962	10.002	VV	345	3663		
251	10.058	10.002	10.094	VV	92750	927259	3	
252	10.125	10.094	10.141	VV	626	10936		
253	10.151	10.141	10.170	VV	352	5706	0.21%	0.008%
254	10.193	10.170	10.240	VV	2261	30778	1.16%	0.044%
255	10.297	10.240	10.317	VV	535	12488	0.47%	0.018%
256	10.322	10.317	10.343	VV	144	1427	0.05%	0.002%
257	10.365	10.343	10.371	VV	165	1617	0.06%	0.002%
258	10.375	10.371	10.393	VV	134	1138	0.04%	0.002%
259	10.399	10.393	10.402	PV	93	281	0.01%	0.000%
260	10.407	10.402	10.418	VV	122	841	0.03%	0.001%
261	10.423	10.418	10.428	VV	112	432	0.02%	0.001%
262	10.438	10.428	10.456	VV	142	1500	0.06%	0.002%
263	10.470	10.456	10.480	VV	158	1742	0.07%	0.002%
264	10.492	10.480	10.512	VV	311	4275	0.16%	0.006%
265	10.534	10.512	10.555	VV	881	12758	0.48%	0.018%
266	10.583	10.555	10.607	VV	1144	18809	0.71%	0.027%
267	10.631	10.607	10.653	VV	534	10760	0.41%	0.015%
268	10.674	10.653	10.694	VV	360	6434	0.24%	0.009%
269	10.726	10.694	10.730	VV	441	5723	0.22%	0.008%
270	10.734	10.730	10.766	VV	418	5986	0.23%	0.009%
271	10.794	10.766	10.809	VV	387	7368	0.28%	0.011%
272	10.817	10.809	10.827	VV	565	5144	0.19%	0.007%
273	10.833	10.827	10.853	VV	462	5523	0.21%	0.008%
274	10.885	10.853	10.904	VV	808	14146	0.53%	0.020%
275	10.934	10.904	10.975	VV	2111	35515	1.34%	0.051%
276	11.004	10.975	11.042	VV	1536	29911	1.13%	0.043%
277	11.057	11.042	11.114	VV	561	13684	0.52%	0.020%
278	11.154	11.114	11.159	PV	212	3152	0.12%	0.005%
279	11.206	11.159	11.240	VV	3509	57062	2.15%	0.082%
280	11.260	11.240	11.290	VV	645	11319	0.43%	0.016%
281	11.310	11.290	11.317	VV	493	5826	0.22%	0.008%
282	11.328	11.317	11.349	VV	461	6559	0.25%	0.009%
283	11.360	11.349	11.373	VV	259	2788	0.10%	0.004%
284	11.390	11.373	11.430	VV	233	4840	0.18%	0.007%
285	11.448	11.430	11.459	PV	273	3158	0.12%	0.005%
286	11.469	11.459	11.483	VV	212	2357	0.09%	0.003%
287	11.495	11.483	11.523	VV	228	3302	0.12%	0.005%
288	11.543	11.523	11.557	VV	226	2661	0.10%	0.004%
289	11.584	11.557	11.591	VV	384	5322	0.20%	0.008%
290	11.607	11.591	11.620	VV	417	6396	0.24%	0.009%
291	11.639	11.620	11.683	VV	1871	28727	1.08%	0.041%
292	11.719	11.683	11.774	VV	1608	39085	1.47%	0.056%
293	11.798	11.774	11.817	VV	434	5864	0.22%	0.008%
294	11.834	11.817	11.860	VV	472	5715	0.22%	0.008%
295	11.894	11.860	11.923	PV	3516	47900	1.80%	0.069%
296	11.945	11.923	11.974	VV	491	10650	0.40%	0.015%
297	11.992	11.974	12.008	VV	335	4621	0.17%	0.007%
298	12.023	12.008	12.038	VV	472	6278	0.24%	0.009%
299	12.055	12.038	12.083	VV	863	13488	0.51%	0.019%

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Instrument :
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Manual IntegrationsAPPROVED

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300	12.106	12.083	12.114	VV	444	5989	0.23%	0.009%
301	12.124	12.114	12.153	VV	555	7785		
302	12.164	12.153	12.184	VV	364	4187		
303	12.190	12.184	12.214	VV	161	1405		
304	12.250	12.214	12.272	VV	217	3821		
305	12.311	12.272	12.346	VV	1853	37473		
306	12.354	12.346	12.361	VV	268	2018	0.08%	0.003%
307	12.365	12.361	12.378	VV	273	2124	0.08%	0.003%
308	12.401	12.378	12.441	VV	3405	48452	1.82%	0.069%
309	12.472	12.441	12.502	VV	387	7886	0.30%	0.011%
310	12.568	12.502	12.625	PV	190697	2655646	100.00%	3.808%
311	12.637	12.625	12.657	VV	2089	34875	1.31%	0.050%
312	12.668	12.657	12.682	VV	1390	18658	0.70%	0.027%
313	12.688	12.682	12.715	VV	1003	17982	0.68%	0.026%
314	12.720	12.715	12.757	VV	879	17797	0.67%	0.026%
315	12.773	12.757	12.793	VV	557	10313	0.39%	0.015%
316	12.807	12.793	12.821	VV	471	7246	0.27%	0.010%
317	12.838	12.821	12.855	VV	458	7958	0.30%	0.011%
318	12.893	12.855	12.914	VV	854	22016	0.83%	0.032%
319	12.919	12.914	12.925	VV	522	3375	0.13%	0.005%
320	12.951	12.925	12.984	VV	2304	37158	1.40%	0.053%
321	13.009	12.984	13.054	VV	2965	58945	2.22%	0.085%
322	13.072	13.054	13.077	VV	449	5118	0.19%	0.007%
323	13.081	13.077	13.087	VV	393	2244	0.08%	0.003%
324	13.092	13.087	13.137	VV	477	7485	0.28%	0.011%
325	13.144	13.137	13.157	VV	161	1203	0.05%	0.002%
326	13.189	13.157	13.260	PV	3445	63514	2.39%	0.091%
327	13.271	13.260	13.280	VV	151	1276	0.05%	0.002%
328	13.306	13.280	13.327	PV	2459	27324	1.03%	0.039%
329	13.348	13.327	13.387	VV	1526	26809	1.01%	0.038%
330	13.397	13.387	13.417	VV	340	3640	0.14%	0.005%
331	13.422	13.417	13.426	VV	157	787	0.03%	0.001%
332	13.448	13.426	13.454	VV	241	2738	0.10%	0.004%
333	13.458	13.454	13.469	VV	230	1508	0.06%	0.002%
334	13.485	13.469	13.492	VV	210	2298	0.09%	0.003%
335	13.511	13.492	13.528	VV	374	4765	0.18%	0.007%
336	13.577	13.528	13.610	PV	11956	184296	6.94%	0.264%
337	13.631	13.610	13.696	VV	6372	132654	5.00%	0.190%
338	13.710	13.696	13.745	VV	848	16512	0.62%	0.024%
339	13.793	13.745	13.866	VV	62754	837607	31.54%	1.201%
340	13.870	13.866	13.885	VV	933	10250	0.39%	0.015%
341	13.895	13.885	13.935	VV	996	18287	0.69%	0.026%
342	13.971	13.935	13.983	VV	562	12718	0.48%	0.018%
343	14.007	13.983	14.030	VV	463	8981	0.34%	0.013%
344	14.044	14.030	14.055	VV	341	3493	0.13%	0.005%
345	14.104	14.055	14.125	VV	2635	44562	1.68%	0.064%
346	14.153	14.125	14.196	VV	3317	52285	1.97%	0.075%
347	14.214	14.196	14.228	VV	500	5752	0.22%	0.008%
348	14.236	14.228	14.240	VV	129	690	0.03%	0.001%
349	14.248	14.240	14.260	VV	213	1637	0.06%	0.002%
350	14.278	14.260	14.294	VV	472	6666	0.25%	0.010%
351	14.299	14.294	14.319	VV	293	2688	0.10%	0.004%

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Instrument :
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Manual IntegrationsAPPROVED

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rteres

352	14.325	14.319	14.328	VV	108	393	0.01%	0.001%
353	14.379	14.328	14.409	VV	790	18637	[illegible]	
354	14.452	14.409	14.469	VV	240	6536	[illegible]	
355	14.545	14.469	14.597	VV	2567	65631	[illegible]	
356	14.619	14.597	14.643	VV	848	18954	[illegible]	
357	14.667	14.643	14.687	VV	791	14816	[illegible]	
358	14.717	14.687	14.754	VV	6554	103999	3.92%	0.149%
359	14.773	14.754	14.798	VV	2133	33893	1.28%	0.049%
360	14.815	14.798	14.852	VV	1119	21465	0.81%	0.031%
361	14.878	14.852	14.900	VV	557	8070	0.30%	0.012%
362	14.935	14.900	14.962	PV	3171	46926	1.77%	0.067%
363	14.978	14.962	14.987	VV	467	6058	0.23%	0.009%
364	14.993	14.987	15.019	VV	373	3777	0.14%	0.005%
365	15.055	15.019	15.090	PV	135481	1786075	67.26%	2.561%
366	15.102	15.090	15.132	VV	887	11742	0.44%	0.017%
367	15.145	15.132	15.150	PV	179	895	0.03%	0.001%
368	15.154	15.150	15.157	VV	163	420	0.02%	0.001%
369	15.185	15.157	15.200	VV	1170	14257	0.54%	0.020%
370	15.225	15.200	15.238	VV	2280	31931	1.20%	0.046%
371	15.257	15.238	15.285	VV	6421	81970	3.09%	0.118%
372	15.301	15.285	15.321	PV	651	7580	0.29%	0.011%
373	15.353	15.321	15.359	VV	219	2912	0.11%	0.004%
374	15.403	15.359	15.412	VV	204	5405	0.20%	0.008%
375	15.454	15.412	15.460	PV	315	4605	0.17%	0.007%
376	15.481	15.460	15.498	VV	401	7077	0.27%	0.010%
377	15.509	15.498	15.515	VV	272	2420	0.09%	0.003%
378	15.524	15.515	15.537	VV	259	2702	0.10%	0.004%
379	15.541	15.537	15.544	VV	242	810	0.03%	0.001%
380	15.600	15.544	15.603	VV	640	13913	0.52%	0.020%
381	15.635	15.603	15.719	VV	62871	984014	37.05%	1.411%
382	15.737	15.719	15.742	VV	900	12537	0.47%	0.018%
383	15.778	15.742	15.809	VV	8752	149903	5.64%	0.215%
384	15.822	15.809	15.835	VV	2565	34266	1.29%	0.049%
385	15.854	15.835	15.881	VV	4221	66858	2.52%	0.096%
386	15.902	15.881	15.934	VV	1268	28348	1.07%	0.041%
387	15.958	15.934	15.966	VV	502	9294	0.35%	0.013%
388	15.990	15.966	16.059	VV	3046	71346	2.69%	0.102%
389	16.079	16.059	16.083	VV	489	6454	0.24%	0.009%
390	16.104	16.083	16.129	VV	769	13010	0.49%	0.019%
391	16.156	16.129	16.186	VV	1831	34493	1.30%	0.049%
392	16.191	16.186	16.194	VV	534	2535	0.10%	0.004%
393	16.197	16.194	16.215	VV	492	3735	0.14%	0.005%
394	16.245	16.215	16.252	VV	139	1669	0.06%	0.002%
395	16.280	16.252	16.324	VV	8150	108475	4.08%	0.156%
396	16.350	16.324	16.363	PV	467	7693	0.29%	0.011%
397	16.375	16.363	16.390	VV	513	4853	0.18%	0.007%
398	16.395	16.390	16.399	VV	105	347	0.01%	0.000%
399	16.478	16.399	16.484	PV	895	18492	0.70%	0.027%
400	16.536	16.484	16.540	VV	917	25660	0.97%	0.037%
401	16.580	16.540	16.618	VV	4331	107414	4.04%	0.154%
402	16.652	16.618	16.681	VV	7605	160619	6.05%	0.230%
403	16.698	16.681	16.719	VV	4388	74391	2.80%	0.107%
404	16.762	16.719	16.800	VV	9237	203604	7.67%	0.292%

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rteres

405	16.843	16.800	16.860	VV	2804	63270	2.38%	0.091%
406	16.890	16.860	16.898	VV	1659	35673		
407	16.927	16.898	16.943	VV	1753	40078		
408	16.985	16.943	16.994	VV	1357	38240		
409	17.024	16.994	17.047	VV	2701	63833		
410	17.065	17.047	17.089	VV	2475	42187		
411	17.121	17.089	17.144	VV	1879	41061	1.55%	0.059%
412	17.152	17.144	17.162	VV	701	5625	0.21%	0.008%
413	17.167	17.162	17.174	VV	488	2113	0.08%	0.003%
414	17.191	17.174	17.196	PV	441	3753	0.14%	0.005%
415	17.231	17.196	17.253	VV	7394	109839	4.14%	0.157%
416	17.282	17.253	17.307	VV	4567	79938	3.01%	0.115%
417	17.312	17.307	17.324	VV	953	6767	0.25%	0.010%
418	17.332	17.324	17.341	VV	612	4517	0.17%	0.006%
419	17.351	17.341	17.357	VV	491	3718	0.14%	0.005%
420	17.362	17.357	17.367	VV	343	1265	0.05%	0.002%
421	17.397	17.367	17.408	PV	727	10123	0.38%	0.015%
422	17.415	17.408	17.427	VV	581	3636	0.14%	0.005%
423	17.464	17.427	17.474	PV	1665	20639	0.78%	0.030%
424	17.522	17.474	17.528	VV	1019	33509	1.26%	0.048%
425	17.534	17.528	17.545	VV	969	7974	0.30%	0.011%
426	17.561	17.545	17.568	VV	1150	12560	0.47%	0.018%
427	17.601	17.568	17.614	VV	4749	85273	3.21%	0.122%
428	17.624	17.614	17.638	VV	3043	35313	1.33%	0.051%
429	17.682	17.638	17.705	VV	9990	190685	7.18%	0.273%
430	17.727	17.705	17.741	VV	1912	34092	1.28%	0.049%
431	17.770	17.741	17.781	VV	2514	42466	1.60%	0.061%
432	17.803	17.781	17.819	VV	2681	50156	1.89%	0.072%
433	17.825	17.819	17.836	VV	2090	19338	0.73%	0.028%
434	17.860	17.836	17.885	VV	3283	71728	2.70%	0.103%
435	17.896	17.885	17.901	VV	2258	20606	0.78%	0.030%
436	17.920	17.901	17.931	VV	2927	45241	1.70%	0.065%
437	17.955	17.931	17.972	VV	3723	74207	2.79%	0.106%
438	17.981	17.972	17.986	VV	3381	27613	1.04%	0.040%
439	17.996	17.986	18.005	VV	4073	43276	1.63%	0.062%
440	18.024	18.005	18.031	VV	4784	65968	2.48%	0.095%
441	18.041	18.031	18.048	VV	5987	54770	2.06%	0.079%
442	18.075	18.048	18.091	VV	7214	161635	6.09%	0.232%
443	18.118	18.091	18.145	VV	11118	249307	9.39%	0.357%
444	18.152	18.145	18.172	VV	4639	71119	2.68%	0.102%
445	18.186	18.172	18.195	VV	4825	54486	2.05%	0.078%
446	18.214	18.195	18.234	VV	5045	99186	3.73%	0.142%
447	18.271	18.234	18.287	VV	6786	151952	5.72%	0.218%
448	18.298	18.287	18.325	VV	4360	78235	2.95%	0.112%
449	18.356	18.325	18.374	VV	4007	96471	3.63%	0.138%
450	18.391	18.374	18.396	VV	2641	32614	1.23%	0.047%
451	18.402	18.396	18.420	VV	2472	29777	1.12%	0.043%
452	18.477	18.420	18.520	VV	35424	863797	32.53%	1.239%
453	18.544	18.520	18.570	VV	14417	297709	11.21%	0.427%
454	18.588	18.570	18.596	VV	7119	100666	3.79%	0.144%
455	18.603	18.596	18.609	VV	6154	45215	1.70%	0.065%
456	18.637	18.609	18.656	VV	11228	246214	9.27%	0.353%

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457	18.662	18.656	18.672	VV	7814	69377	2.61%	0.099%
458	18.682	18.672	18.699	VV	7254	110419		
459	18.710	18.699	18.718	VV	7349	75392		
460	18.726	18.718	18.734	VV	6992	64555		
461	18.748	18.734	18.764	VV	9281	142219		
462	18.774	18.764	18.783	VV	8276	86119		
463	18.790	18.783	18.811	VV	7996	126451	4.76%	0.181%
464	18.832	18.811	18.840	VV	9170	144492	5.44%	0.207%
465	18.868	18.840	18.875	VV	9450	177516	6.68%	0.255%
466	18.899	18.875	18.912	VV	11482	225295	8.48%	0.323%
467	18.942	18.912	18.996	VV	20619	706062	26.59%	1.012%
468	19.010	18.996	19.020	VV	10015	133726	5.04%	0.192%
469	19.070	19.020	19.096	VV	16511	602586	22.69%	0.864%
470	19.113	19.096	19.134	VV	13543	279204	10.51%	0.400%
471	19.152	19.134	19.169	VV	12963	245550	9.25%	0.352%
472	19.195	19.169	19.214	VV	14594	350202	13.19%	0.502%
473	19.221	19.214	19.228	VV	13820	114001	4.29%	0.163%
474	19.236	19.228	19.242	VV	14352	115480	4.35%	0.166%
475	19.254	19.242	19.266	VV	15018	195991	7.38%	0.281%
476	19.307	19.266	19.336	VV	39955	1064919	40.10%	1.527%
477	19.354	19.336	19.385	VV	26019	662736	24.96%	0.950%
478	19.392	19.385	19.398	VV	21572	158217	5.96%	0.227%
479	19.419	19.398	19.425	VV	22540	339113	12.77%	0.486%
480	19.431	19.425	19.438	VV	21981	162979	6.14%	0.234%
481	19.460	19.438	19.475	VV	21976	470048	17.70%	0.674%
482	19.488	19.475	19.505	VV	24098	396920	14.95%	0.569%
483	19.512	19.505	19.520	VV	21478	190836	7.19%	0.274%
484	19.525	19.520	19.532	VV	20851	154986	5.84%	0.222%
485	19.549	19.532	19.574	VV	23284	541750	20.40%	0.777%
486	19.594	19.574	19.599	VV	21023	298982	11.26%	0.429%
487	19.623	19.599	19.628	VV	21045	355836	13.40%	0.510%
488	19.634	19.628	19.639	VV	21116	142229	5.36%	0.204%
489	19.662	19.639	19.668	VV	23156	367747	13.85%	0.527%
490	19.679	19.668	19.686	VV	25089	259055	9.75%	0.371%
491	19.703	19.686	19.712	VV	24626	369556	13.92%	0.530%
492	19.729	19.712	19.734	VV	25999	336089	12.66%	0.482%
493	19.739	19.734	19.747	VV	25986	190810	7.19%	0.274%
494	19.761	19.747	19.766	VV	27128	295123	11.11%	0.423%
495	19.769	19.766	19.775	VV	26660	136484	5.14%	0.196%
496	19.829	19.775	19.834	VV	29781	988163	37.21%	1.417%
497	19.840	19.834	19.860	VV	30384	429033	16.16%	0.615%
498	19.864	19.860	19.873	VV	25231	175461	6.61%	0.252%
499	19.880	19.873	19.886	VV	23977	186301	7.02%	0.267%
500	19.892	19.886	19.896	VV	22927	131093	4.94%	0.188%
501	19.909	19.896	19.923	VV	24768	367123	13.82%	0.526%
502	19.954	19.923	19.972	VV	26807	730485	27.51%	1.047%
503	19.981	19.972	19.989	VV	26197	246495	9.28%	0.353%
504	19.993	19.989	19.998	VV	24956	132095	4.97%	0.189%
505	20.007	19.998	20.012	VV	26890	225789	8.50%	0.324%
506	20.019	20.012	20.027	VV	27941	243952	9.19%	0.350%
507	20.035	20.027	20.040	VV	28319	219512	8.27%	0.315%
508	20.043	20.040	20.053	VV	28147	205243	7.73%	0.294%
509	20.060	20.053	20.065	VV	28050	187941	7.08%	0.269%

10

Instrument :
FID_G
ClientSampleId :
RES-BUILDING-PAD-NO-2

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/04/2024
Supervised By :Ankita Jodhani 11/04/2024

A B C D E F G H I J

rteres

510	20.102	20.065	20.154	VV	38740	1753635	66.03%	2.514%
511	20.180	20.154	20.197	VV	35877	837734	31	
512	20.206	20.197	20.213	VV	32884	317679	11	
513	20.225	20.213	20.254	VV	36396	826555	31	
514	20.261	20.254	20.266	VV	33143	245421	9	
515	20.272	20.266	20.294	VV	33230	520504	19	
516	20.330	20.294	20.349	VV	37334	1136080	42.78%	1.629%
517	20.361	20.349	20.375	VV	35105	544843	20.52%	0.781%
518	20.394	20.375	20.399	VV	37469	495026	18.64%	0.710%
519	20.443	20.399	20.449	VV	44602	1201160	45.23%	1.722%
520	20.459	20.449	20.467	VV	44576	463370	17.45%	0.664%
521	20.475	20.467	20.494	VV	46850	744534	28.04%	1.068%
522	20.510	20.494	20.522	VV	45547	738368	27.80%	1.059%
523	20.535	20.522	20.549	VV	45893	707094	26.63%	1.014%
524	20.554	20.549	20.591	VV	45393	1039488	39.14%	1.490%
525	20.599	20.591	20.604	VV	39442	300004	11.30%	0.430%
526	20.639	20.604	20.673	VV	56369	1894231	71.33%	2.716%
527	20.702	20.673	20.707	VV	51593	978650	36.85%	1.403%
528	20.711	20.707	20.714	VV	50387	209889	7.90%	0.301%
529	20.736	20.714	20.750	VV	54335	1118608	42.12%	1.604%
530	20.757	20.750	20.764	VV	50974	404398	15.23%	0.580%
531	20.773	20.764	20.809	VV	49901	1272753	47.93%	1.825%
532	20.815	20.809	20.849	VV	44644	981860	36.97%	1.408%
533	20.869	20.849	20.887	VV	39526	844212	31.79%	1.210%
534	20.903	20.887	20.913	VV	40181	601771	22.66%	0.863%
535	20.927	20.913	20.935	VV	40671	513513	19.34%	0.736%
536	20.951	20.935	20.974	VV	40728	914168	34.42%	1.311%
537	21.011	20.974	21.024	VV	40078	1135739	42.77%	1.628%
538	21.031	21.024	21.044	VV	39622	467238	17.59%	0.670%
539	21.047	21.044	21.062	VV	38441	412915	15.55%	0.592%
540	21.070	21.062	21.075	VV	39269	294802	11.10%	0.423%
541	21.081	21.075	21.110	VV	40346	839460	31.61%	1.204%
542	21.118	21.110	21.147	VV	39088	791476	29.80%	1.135%
543	21.158	21.147	21.177	VV	33536	575703	21.68%	0.825%
544	21.221	21.177	21.252	VV	35695	1474136	55.51%	2.114%
545	21.265	21.252	21.270	VV	32880	351328	13.23%	0.504%
546	21.274	21.270	21.279	VV	32857	164927	6.21%	0.236%
547	21.290	21.279	21.297	VV	33431	347989	13.10%	0.499%
548	21.309	21.297	21.336	VV	32641	707764	26.65%	1.015%
549	21.343	21.336	21.379	VV	27293	615554	23.18%	0.883%
550	21.401	21.379	21.411	VV	23520	431401	16.24%	0.619%
551	21.442	21.411	21.449	VV	25396	547038	20.60%	0.784%
552	21.457	21.449	21.463	VV	25622	217546	8.19%	0.312%
553	21.471	21.463	21.475	VV	26609	187481	7.06%	0.269%
554	21.489	21.475	21.505	VV	28477	494845	18.63%	0.710%
555	21.511	21.505	21.520	VV	27276	236638	8.91%	0.339%
556	21.525	21.520	21.536	VV	27320	246599	9.29%	0.354%
557	21.543	21.536	21.552	VV	27087	256426	9.66%	0.368%
558	21.558	21.552	21.565	VV	25789	194975	7.34%	0.280%
559	21.584	21.565	21.590	VV	26797	384640	14.48%	0.552%
560	21.609	21.590	21.615	VV	27804	398071	14.99%	0.571%
561	21.629	21.615	21.646	VV	29374	524187	19.74%	0.752%

10

Instrument :
FID_G
ClientSampleId :
RES-BUILDING-PAD-NO-2

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/04/2024
Supervised By :Ankita Jodhani 11/04/2024

A B C D E F G H I J

rteres

562	21.655	21.646	21.712	VV	27958	869479	32.74%	1.247%
563	21.716	21.712	21.720	VV	13324	63135	2	
564	21.728	21.720	21.732	VV	15095	98928	3	
565	21.737	21.732	21.772	VV	14333	266262	10	
566	21.824	21.772	21.833	VV	13532	396487	14	
567	21.847	21.833	21.852	VV	14753	149699	5	
568	21.857	21.852	21.863	VV	15179	93223	3.51%	0.134%
569	21.869	21.863	21.874	VV	14385	92688	3.49%	0.133%
570	21.880	21.874	21.885	VV	13842	93807	3.53%	0.135%
571	21.894	21.885	21.902	VV	13908	136506	5.14%	0.196%
572	21.906	21.902	21.920	VV	14014	135996	5.12%	0.195%
573	21.928	21.920	21.935	VV	12108	105203	3.96%	0.151%
574	21.950	21.935	21.963	VV	12356	197107	7.42%	0.283%
575	21.970	21.963	21.975	VV	13242	91733	3.45%	0.132%
576	22.018	21.975	22.025	VV	17312	461432	17.38%	0.662%
577	22.032	22.025	22.058	VV	17984	325244	12.25%	0.466%
578	22.061	22.058	22.089	VV	15911	281046	10.58%	0.403%
579	22.096	22.089	22.117	VV	15376	229712	8.65%	0.329%
580	22.120	22.117	22.150	VV	11858	189654	7.14%	0.272%
581	22.158	22.150	22.206	VV	8900	190832	7.19%	0.274%
582	22.212	22.206	22.226	VV	3297	28015	1.05%	0.040%
583	22.231	22.226	22.242	VV	2073	11973	0.45%	0.017%
584	22.251	22.242	22.266	PV	1246	12830	0.48%	0.018%
585	22.273	22.266	22.282	VV	2042	11722	0.44%	0.017%
586	22.287	22.282	22.300	VBA	1143	53401	2.01%	0.077%

Sum of corrected areas: 69742196

FG102124.M Mon Nov 04 03:05:31 2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG110124\
Data File : FG014627.D
Signal(s) : FID1A.ch
Acq On : 01 Nov 2024 18:31
Operator : YP\AJ
Sample : PB164602BL
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
PB164602BL

Integration File: autoint1.e
Quant Time: Nov 04 01:31:11 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG102124.M
Quant Title :
QLast Update : Mon Oct 21 17:03:32 2024
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...	15.052	1921381	16.064	ug/ml
Target Compounds					

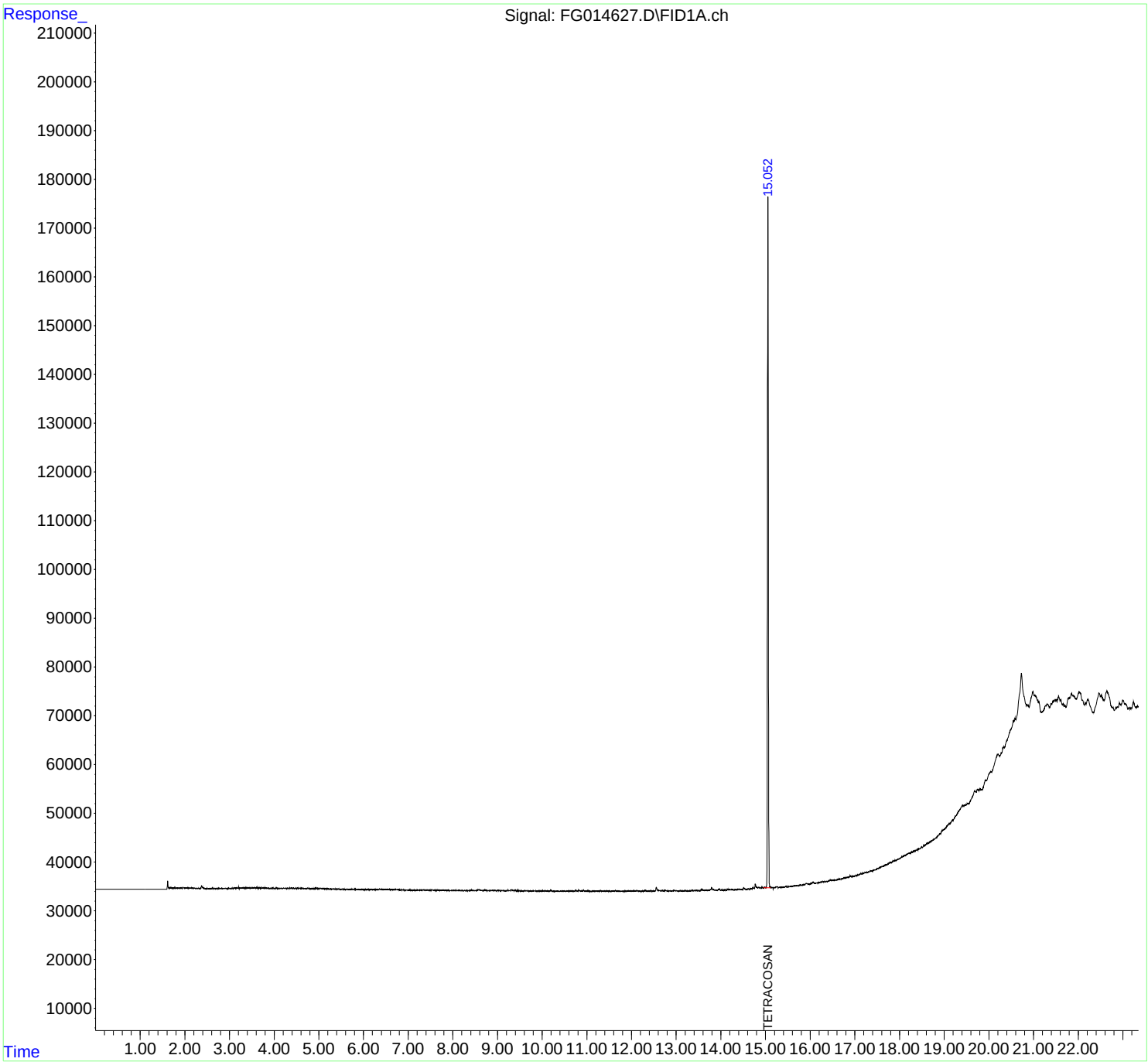
(f)=RT Delta > 1/2 Window (m)=manual int.

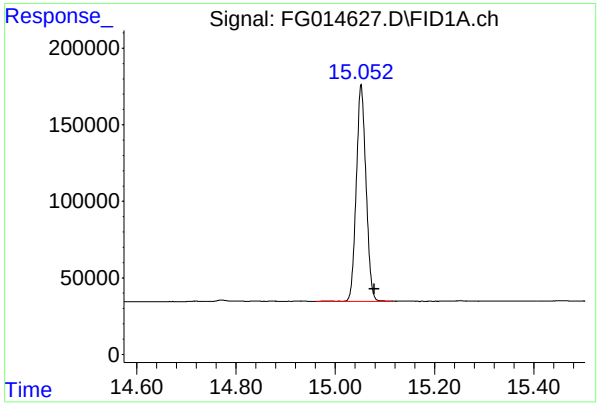
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG110124\
Data File : FG014627.D
Signal(s) : FID1A.ch
Acq On : 01 Nov 2024 18:31
Operator : YP\AJ
Sample : PB164602BL
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
PB164602BL

Integration File: autoint1.e
Quant Time: Nov 04 01:31:11 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG102124.M
Quant Title :
QLast Update : Mon Oct 21 17:03:32 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal Phase : Rxi-1ms
Signal Info : 20mx0.18mmx0.18um





#9 TETRACOSANE-d50 (SURROGATE)

R.T.: 15.052 min
Delta R.T.: -0.027 mi
Response: 1921381
Conc: 16.06 ug/m

Instrument :
FID_G
ClientSampleId :
PB164602BL

10

A B C D E F G H I J

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG110124\
Data File : FG014627.D
Signal(s) : FID1A.ch
Acq On : 01 Nov 2024 18:31
Sample : PB164602BL
Misc :
ALS Vial : 25 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG102124.M
Title :

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	15.052	14.961	15.116	BB	141534	1921381	100.00%	100.000%
			Sum of corrected areas:			1921381		

FG102124.M Mon Nov 04 02:30:38 2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG110124\
Data File : FG014628.D
Signal(s) : FID1A.ch
Acq On : 01 Nov 2024 19:00
Operator : YP\AJ
Sample : PB164602BS
Misc :
ALS Vial : 26 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Nov 04 01:31:21 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG102124.M
Quant Title :
QLast Update : Mon Oct 21 17:03:32 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal Phase : Rxi-1ms
Signal Info : 20mx0.18mmx0.18um

Instrument :
FID_G
ClientSampleId :
PB164602BS

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/04/2024
Supervised By :Ankita Jodhani 11/04/2024

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
9)	S TETRACOSANE-d50 (SURR...	15.053	1968603	16.459	ug/ml
	Target Compounds				
1)	N-OCTANE	2.065	2356919	19.543	ug/ml
2)	N-DECANE	4.578	2789637	22.530	ug/ml
3)	N-DODECANE	6.750	2915326	23.132	ug/ml
4)	N-TETRADECANE	8.582	2862817	22.280	ug/ml
5)	N-HEXADECANE	10.193	2912576	22.368	ug/ml
6)	N-OCTADECANE	11.639	2986375	22.256	ug/ml
7)	N-EICOSANE	12.952	2891756	21.210	ug/ml
8)	N-DOCOSANE	14.152	2829442	21.313	ug/ml
10)	N-TETRACOSANE	15.257	2786032	20.901	ug/ml
11)	N-HEXACOSANE	16.278	2703480	20.311	ug/mlm
12)	N-OCTACOSANE	17.229	2631027	19.840	ug/mlm
13)	N-TRIACONTANE	18.117	2492137	18.616	ug/mlm
14)	N-DOTRIACONTANE	18.951	2003831	15.150	ug/mlm
15)	N-TETRATRIACONTANE	19.734	1363154	10.791	ug/ml
16)	N-HEXATRIACONTANE	20.473	935516	8.083	ug/mlm
17)	N-OCTATRIACONTANE	21.226	781960	7.390	ug/ml
18)	N-TETRACONTANE	22.169	773340	8.141	ug/ml

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

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG110124\
Data File : FG014628.D
Signal(s) : FID1A.ch
Acq On : 01 Nov 2024 19:00
Operator : YP\AJ
Sample : PB164602BS
Misc :
ALS Vial : 26 Sample Multiplier: 1

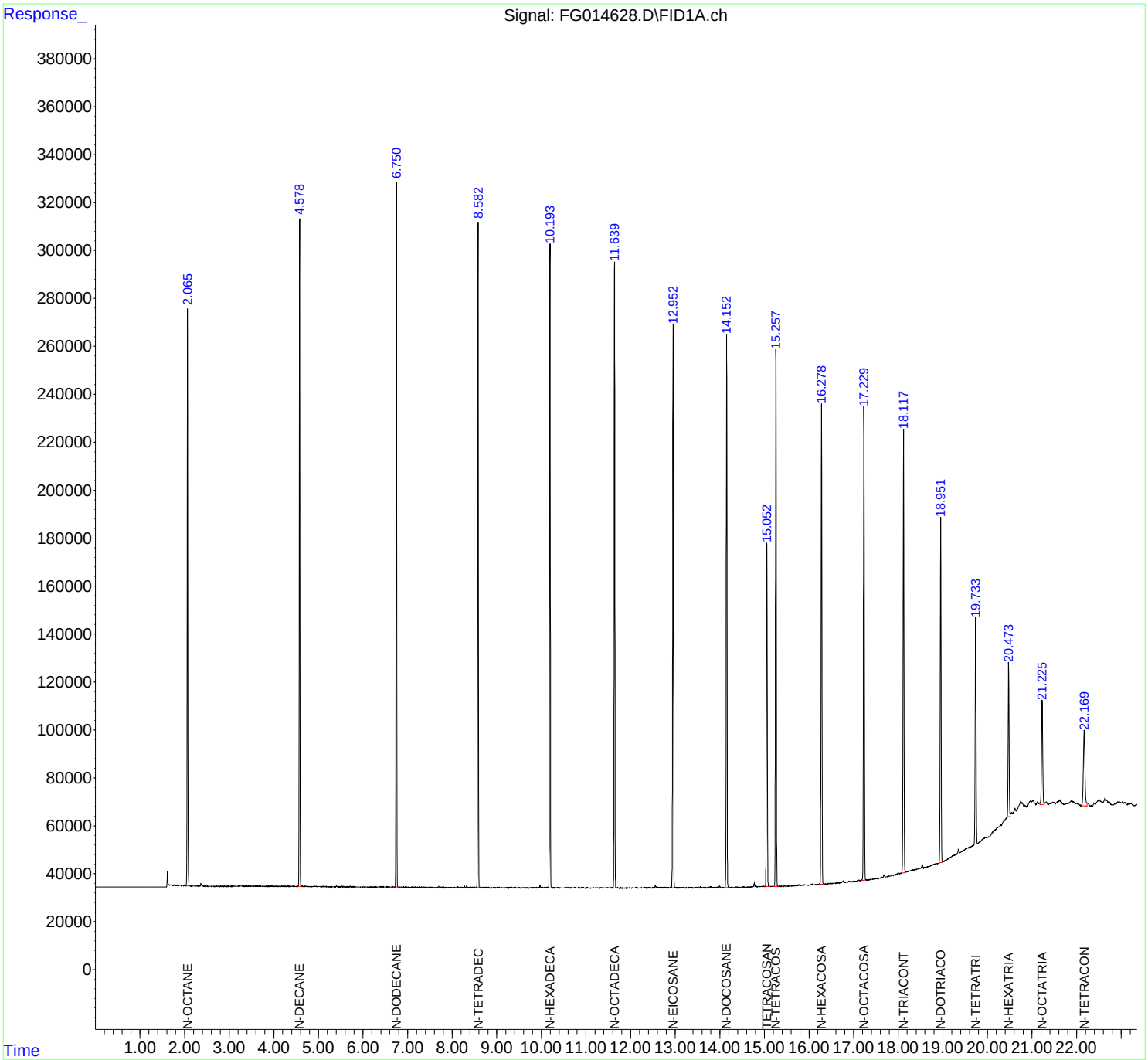
Integration File: autoint1.e
Quant Time: Nov 04 01:31:21 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG102124.M
Quant Title :
QLast Update : Mon Oct 21 17:03:32 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal Phase : Rxi-1ms
Signal Info : 20mx0.18mmx0.18um

Instrument :
FID_G
ClientSampleId :
PB164602BS

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/04/2024
Supervised By :Ankita Jodhani 11/04/2024



10

Instrument :
FID_G
ClientSampleId :
PB164602BS

rteres

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/04/2024
Supervised By :Ankita Jodhani 11/04/2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG11012
Data File : FG014628.D
Signal(s) : FID1A.ch
Acq On : 01 Nov 2024 19:00
Sample : PB164602BS
Misc :
ALS Vial : 26 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG102124.M
Title :

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	2.065	2.028	2.142	BB	240933	2356919	78.92%	5.735%
2	4.578	4.535	4.636	BB	278633	2789637	93.41%	6.788%
3	6.750	6.667	6.793	BB	294138	2915326	97.62%	7.094%
4	8.582	8.513	8.628	BB	277279	2862817	95.86%	6.966%
5	10.193	10.144	10.250	BB	268784	2912576	97.53%	7.087%
6	11.639	11.547	11.693	BB	261253	2986375	100.00%	7.267%
7	12.952	12.902	12.989	BB	235432	2891756	96.83%	7.036%
8	14.152	14.116	14.198	BB	231013	2829442	94.75%	6.885%
9	15.053	14.998	15.125	BB	143288	1968603	65.92%	4.790%
10	15.257	15.196	15.310	BB	223899	2786032	93.29%	6.779%
11	16.279	16.174	16.323	BB	200379	2706593	90.63%	6.586%
12	17.229	17.044	17.288	BB	197283	2641539	88.45%	6.427%
13	18.118	17.723	18.158	BV	184933	2486167	83.25%	6.049%
14	18.951	18.750	18.989	BV	143962	2001203	67.01%	4.869%
15	19.734	19.700	19.777	BV	94519	1363154	45.65%	3.317%
16	20.474	20.200	20.509	BV	65461	1044031	34.96%	2.540%
17	21.226	21.179	21.273	VV	43408	781960	26.18%	1.903%
18	22.169	22.106	22.233	BV	31654	773340	25.90%	1.882%
			Sum of corrected areas:			41097469		

FG102124.M Mon Nov 04 02:31:24 2024

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG110124\
Data File : FG014629.D
Signal(s) : FID1A.ch
Acq On : 01 Nov 2024 19:28
Operator : YP\AJ
Sample : P4663-08MS
Misc :
ALS Vial : 27 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Nov 04 01:31:30 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG102124.M
Quant Title :
QLast Update : Mon Oct 21 17:03:32 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal Phase : Rxi-1ms
Signal Info : 20mx0.18mmx0.18um

Instrument :
FID_G
ClientSampleId :
RES-BUILDING-PAD-NO-2MS

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 11/04/2024
Supervised By :Ankita Jodhani 11/04/2024

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
9)	S TETRACOSANE-d50 (SURR...	15.053	1486686	12.430 ug/ml
	Target Compounds			
1)	N-OCTANE	2.064	2340429	19.407 ug/ml
2)	N-DECANE	4.579	2777655	22.434 ug/ml
3)	N-DODECANE	6.750	2948698	23.396 ug/ml
4)	N-TETRADECANE	8.582	2940454	22.884 ug/ml
5)	N-HEXADECANE	10.193	3011595	23.129 ug/ml
6)	N-OCTADECANE	11.640	3112642	23.197 ug/ml
7)	N-EICOSANE	12.953	3027937	22.209 ug/ml
8)	N-DOCOSANE	14.152	2983566	22.474 ug/ml
10)	N-TETRACOSANE	15.257	2985251	22.396 ug/ml
11)	N-HEXACOSANE	16.281	2907708	21.845 ug/ml
12)	N-OCTACOSANE	17.230	2839422	21.411 ug/mlm
13)	N-TRIACONTANE	18.120	2691985	20.109 ug/ml
14)	N-DOTRIACONTANE	18.951	2236442	16.909 ug/ml
15)	N-TETRATRIACONTANE	19.736	1464476	11.594 ug/ml
16)	N-HEXATRIACONTANE	20.476	1022789	8.837 ug/mlm
17)	N-OCTATRIACONTANE	21.227	853230	8.064 ug/ml
18)	N-TETRACONTANE	22.170	930520	9.795 ug/ml

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

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG110124\
Data File : FG014629.D
Signal(s) : FID1A.ch
Acq On : 01 Nov 2024 19:28
Operator : YP\AJ
Sample : P4663-08MS
Misc :
ALS Vial : 27 Sample Multiplier: 1

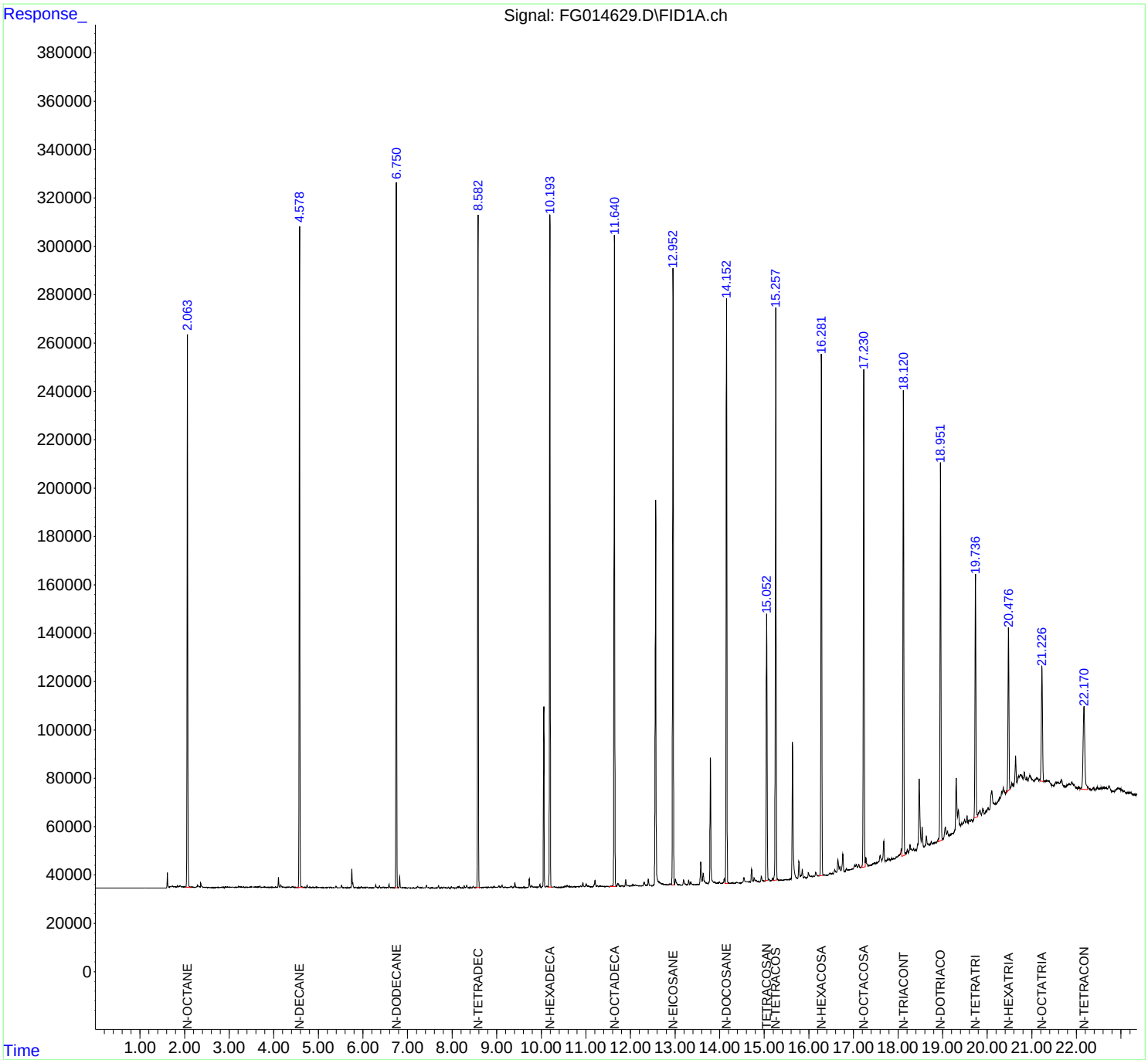
Integration File: autoint1.e
Quant Time: Nov 04 01:31:30 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG102124.M
Quant Title :
QLast Update : Mon Oct 21 17:03:32 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal Phase : Rxi-1ms
Signal Info : 20mx0.18mmx0.18um

Instrument :
FID_G
ClientSampleId :
RES-BUILDING-PAD-NO-2MS

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/04/2024
Supervised By :Ankita Jodhani 11/04/2024



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Instrument :
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rteres

Area Percent Report

Manual IntegrationsAPPROVED

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Supervised By :Ankita Jodhani 11/04/2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG11012
Data File : FG014629.D
Signal(s) : FID1A.ch
Acq On : 01 Nov 2024 19:28
Sample : P4663-08MS
Misc :
ALS Vial : 27 Sample Multiplier: 1

Integration File: Sample.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG102124.M
Title :

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	1.931	1.912	1.942	BV	53	-741	-0.02%	-0.001%
2	1.958	1.942	1.968	PV	198	1527	0.05%	0.002%
3	1.972	1.968	1.987	VV	117	531	0.02%	0.001%
4	2.003	1.987	2.026	PV	403	3656	0.12%	0.005%
5	2.064	2.026	2.118	PV	228429	2341187	75.06%	3.420%
6	2.126	2.118	2.130	VV	169	959	0.03%	0.001%
7	2.136	2.130	2.143	VV	189	1321	0.04%	0.002%
8	2.147	2.143	2.166	VV	182	2006	0.06%	0.003%
9	2.171	2.166	2.178	VV	147	812	0.03%	0.001%
10	2.180	2.178	2.190	VV	157	647	0.02%	0.001%
11	2.195	2.190	2.204	VV	144	822	0.03%	0.001%
12	2.209	2.204	2.245	VV	124	2131	0.07%	0.003%
13	2.263	2.245	2.268	VV	258	2343	0.08%	0.003%
14	2.298	2.268	2.343	VV	954	22641	0.73%	0.033%
15	2.361	2.343	2.421	VV	2026	31029	0.99%	0.045%
16	2.426	2.421	2.445	VV	161	1743	0.06%	0.003%
17	2.459	2.445	2.477	VV	132	1922	0.06%	0.003%
18	2.482	2.477	2.495	VV	119	923	0.03%	0.001%
19	2.499	2.495	2.503	VV	110	392	0.01%	0.001%
20	2.507	2.503	2.513	VV	93	378	0.01%	0.001%
21	2.515	2.513	2.519	VV	98	173	0.01%	0.000%
22	2.536	2.519	2.552	PV	129	1508	0.05%	0.002%
23	2.568	2.552	2.583	VV	137	1362	0.04%	0.002%
24	2.590	2.583	2.604	VV	75	744	0.02%	0.001%
25	2.613	2.604	2.618	VV	70	451	0.01%	0.001%
26	2.627	2.618	2.642	VV	100	786	0.03%	0.001%
27	2.652	2.642	2.663	VV	87	577	0.02%	0.001%
28	2.671	2.663	2.675	VV	99	359	0.01%	0.001%
29	2.678	2.675	2.682	VV	73	153	0.00%	0.000%
30	2.695	2.682	2.700	PV	78	549	0.02%	0.001%
31	2.714	2.700	2.727	VV	247	2804	0.09%	0.004%
32	2.732	2.727	2.739	VV	180	901	0.03%	0.001%
33	2.754	2.739	2.784	VV	186	3658	0.12%	0.005%
34	2.789	2.784	2.798	VV	122	946	0.03%	0.001%
35	2.809	2.798	2.814	VV	138	1121	0.04%	0.002%
36	2.817	2.814	2.838	VV	165	1728	0.06%	0.003%

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Instrument :
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Manual IntegrationsAPPROVED

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rteres

37	2.865	2.838	2.879	VV	194	3767	0.12%	0.006%
38	2.883	2.879	2.897	VV	195	1607		
39	2.941	2.897	2.948	VV	353	7477		
40	2.953	2.948	2.967	VV	320	3342		
41	2.973	2.967	2.977	VV	255	1485		
42	2.987	2.977	3.002	VV	301	3714		
43	3.016	3.002	3.043	VV	360	6813	0.22%	0.010%
44	3.046	3.043	3.051	VV	252	1049	0.03%	0.002%
45	3.070	3.051	3.086	VV	383	5941	0.19%	0.009%
46	3.090	3.086	3.114	VV	252	3887	0.12%	0.006%
47	3.118	3.114	3.126	VV	241	1549	0.05%	0.002%
48	3.131	3.126	3.139	VV	254	1682	0.05%	0.002%
49	3.152	3.139	3.159	VV	277	2727	0.09%	0.004%
50	3.164	3.159	3.169	VV	241	1100	0.04%	0.002%
51	3.173	3.169	3.178	VV	196	989	0.03%	0.001%
52	3.210	3.178	3.225	VV	507	9802	0.31%	0.014%
53	3.230	3.225	3.237	VV	377	2517	0.08%	0.004%
54	3.252	3.237	3.264	VV	400	5686	0.18%	0.008%
55	3.269	3.264	3.297	VV	293	5054	0.16%	0.007%
56	3.305	3.297	3.311	VV	271	2008	0.06%	0.003%
57	3.322	3.311	3.343	VV	410	5883	0.19%	0.009%
58	3.350	3.343	3.355	VV	249	1624	0.05%	0.002%
59	3.362	3.355	3.377	VV	361	3244	0.10%	0.005%
60	3.383	3.377	3.410	VV	296	4765	0.15%	0.007%
61	3.414	3.410	3.419	VV	257	1171	0.04%	0.002%
62	3.427	3.419	3.439	VV	239	2708	0.09%	0.004%
63	3.443	3.439	3.458	VV	284	2720	0.09%	0.004%
64	3.487	3.458	3.515	VV	403	11514	0.37%	0.017%
65	3.518	3.515	3.541	VV	378	5310	0.17%	0.008%
66	3.544	3.541	3.551	VV	344	1927	0.06%	0.003%
67	3.558	3.551	3.588	VV	350	6841	0.22%	0.010%
68	3.592	3.588	3.605	VV	328	2891	0.09%	0.004%
69	3.625	3.605	3.629	VV	337	4350	0.14%	0.006%
70	3.638	3.629	3.668	VV	341	7277	0.23%	0.011%
71	3.687	3.668	3.725	VV	742	13954	0.45%	0.020%
72	3.740	3.725	3.761	VV	270	5272	0.17%	0.008%
73	3.778	3.761	3.782	VV	362	3641	0.12%	0.005%
74	3.787	3.782	3.792	VV	357	2015	0.06%	0.003%
75	3.796	3.792	3.800	VV	331	1414	0.05%	0.002%
76	3.802	3.800	3.818	VV	382	3035	0.10%	0.004%
77	3.823	3.818	3.834	VV	286	2317	0.07%	0.003%
78	3.839	3.834	3.845	VV	276	1458	0.05%	0.002%
79	3.858	3.845	3.875	VV	261	3964	0.13%	0.006%
80	3.878	3.875	3.891	VV	246	2084	0.07%	0.003%
81	3.894	3.891	3.899	VV	254	1156	0.04%	0.002%
82	3.913	3.899	3.928	VV	308	4360	0.14%	0.006%
83	3.939	3.928	3.945	VV	238	2113	0.07%	0.003%
84	3.953	3.945	3.960	VV	252	1995	0.06%	0.003%
85	3.968	3.960	3.993	VV	323	4813	0.15%	0.007%
86	4.011	3.993	4.027	VV	311	5092	0.16%	0.007%
87	4.039	4.027	4.064	VV	383	6664	0.21%	0.010%
88	4.107	4.064	4.135	VV	4328	47256	1.51%	0.069%
89	4.159	4.135	4.205	VV	1319	25037	0.80%	0.037%

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Instrument :
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90	4.219	4.205	4.257	VV	383	9854	0.32%	0.014%
91	4.261	4.257	4.272	VV	260	2039		
92	4.278	4.272	4.287	VV	287	2233		
93	4.301	4.287	4.328	VV	338	7153		
94	4.349	4.328	4.380	VV	520	10776		
95	4.406	4.380	4.411	VV	420	6104		
96	4.423	4.411	4.450	VV	568	9353	0.30%	0.014%
97	4.454	4.450	4.463	VV	264	1980	0.06%	0.003%
98	4.471	4.463	4.490	VV	300	4044	0.13%	0.006%
99	4.494	4.490	4.498	VV	269	1159	0.04%	0.002%
100	4.503	4.498	4.512	VV	250	1815	0.06%	0.003%
101	4.523	4.512	4.528	VV	298	2483	0.08%	0.004%
102	4.538	4.528	4.546	VV	286	2760	0.09%	0.004%
103	4.579	4.546	4.613	VV	273402	2780371	89.13%	4.061%
104	4.617	4.613	4.644	VV	668	9014	0.29%	0.013%
105	4.649	4.644	4.662	VV	370	3304	0.11%	0.005%
106	4.666	4.662	4.671	VV	296	1464	0.05%	0.002%
107	4.675	4.671	4.679	VV	293	1275	0.04%	0.002%
108	4.686	4.679	4.724	VV	291	6328	0.20%	0.009%
109	4.748	4.724	4.783	VV	1215	16437	0.53%	0.024%
110	4.796	4.783	4.836	VV	292	7654	0.25%	0.011%
111	4.841	4.836	4.849	VV	199	1313	0.04%	0.002%
112	4.862	4.849	4.873	VV	281	3272	0.10%	0.005%
113	4.885	4.873	4.903	VV	296	4229	0.14%	0.006%
114	4.908	4.903	4.912	VV	206	1019	0.03%	0.001%
115	4.919	4.912	4.923	VV	210	1275	0.04%	0.002%
116	4.948	4.923	4.975	VV	372	7817	0.25%	0.011%
117	4.981	4.975	4.989	VV	242	1774	0.06%	0.003%
118	4.996	4.989	5.009	VV	257	2747	0.09%	0.004%
119	5.012	5.009	5.022	VV	248	1671	0.05%	0.002%
120	5.028	5.022	5.036	VV	270	1831	0.06%	0.003%
121	5.040	5.036	5.046	VV	196	1095	0.04%	0.002%
122	5.054	5.046	5.064	VV	249	2363	0.08%	0.003%
123	5.078	5.064	5.085	VV	247	2598	0.08%	0.004%
124	5.102	5.085	5.115	VV	233	3250	0.10%	0.005%
125	5.127	5.115	5.147	VV	181	2837	0.09%	0.004%
126	5.151	5.147	5.155	VV	147	689	0.02%	0.001%
127	5.172	5.155	5.194	VV	259	4351	0.14%	0.006%
128	5.199	5.194	5.204	VV	190	944	0.03%	0.001%
129	5.238	5.204	5.253	VV	437	8331	0.27%	0.012%
130	5.275	5.253	5.286	VV	358	5061	0.16%	0.007%
131	5.290	5.286	5.308	VV	274	3032	0.10%	0.004%
132	5.311	5.308	5.317	VV	181	864	0.03%	0.001%
133	5.331	5.317	5.350	VV	217	3268	0.10%	0.005%
134	5.354	5.350	5.367	VV	173	1464	0.05%	0.002%
135	5.377	5.367	5.381	VV	175	1342	0.04%	0.002%
136	5.397	5.381	5.422	VV	837	10333	0.33%	0.015%
137	5.426	5.422	5.431	VV	162	693	0.02%	0.001%
138	5.435	5.431	5.454	VV	153	1657	0.05%	0.002%
139	5.467	5.454	5.477	VV	157	1852	0.06%	0.003%
140	5.488	5.477	5.492	VV	151	1197	0.04%	0.002%
141	5.496	5.492	5.501	VV	171	676	0.02%	0.001%

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Manual IntegrationsAPPROVED

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142	5.522	5.501	5.541	VV	1172	14057	0.45%	0.021%
143	5.547	5.541	5.577	VV	249	4004		
144	5.594	5.577	5.605	VV	260	2888		
145	5.609	5.605	5.613	VV	169	607		
146	5.618	5.613	5.630	VV	144	1076		
147	5.634	5.630	5.640	VV	128	559		
148	5.652	5.640	5.666	VV	221	1848	0.06%	0.003%
149	5.672	5.666	5.688	VV	166	1436	0.05%	0.002%
150	5.694	5.688	5.699	VV	120	689	0.02%	0.001%
151	5.717	5.699	5.733	VV	462	5458	0.17%	0.008%
152	5.752	5.733	5.768	VV	7916	75948	2.43%	0.111%
153	5.775	5.768	5.810	VV	2258	21881	0.70%	0.032%
154	5.826	5.810	5.854	VV	471	7018	0.22%	0.010%
155	5.858	5.854	5.881	VV	153	2013	0.06%	0.003%
156	5.906	5.881	5.929	VV	384	4741	0.15%	0.007%
157	5.935	5.929	5.940	VV	150	776	0.02%	0.001%
158	5.962	5.940	5.993	VV	692	10941	0.35%	0.016%
159	5.997	5.993	6.002	VV	226	1058	0.03%	0.002%
160	6.008	6.002	6.020	VV	201	1679	0.05%	0.002%
161	6.042	6.020	6.067	VV	490	6674	0.21%	0.010%
162	6.090	6.067	6.119	VV	466	8286	0.27%	0.012%
163	6.122	6.119	6.135	VV	161	1133	0.04%	0.002%
164	6.159	6.135	6.179	VV	263	4376	0.14%	0.006%
165	6.193	6.179	6.218	VV	306	4227	0.14%	0.006%
166	6.227	6.218	6.237	VV	206	1791	0.06%	0.003%
167	6.258	6.237	6.268	VV	229	3562	0.11%	0.005%
168	6.287	6.268	6.331	VV	1382	21181	0.68%	0.031%
169	6.335	6.331	6.342	VV	267	1791	0.06%	0.003%
170	6.346	6.342	6.354	VV	259	1693	0.05%	0.002%
171	6.372	6.354	6.394	VV	975	12979	0.42%	0.019%
172	6.398	6.394	6.421	VV	286	3622	0.12%	0.005%
173	6.442	6.421	6.450	VV	358	4397	0.14%	0.006%
174	6.465	6.450	6.484	VV	490	7365	0.24%	0.011%
175	6.493	6.484	6.513	VV	378	5451	0.17%	0.008%
176	6.519	6.513	6.529	VV	267	2157	0.07%	0.003%
177	6.545	6.529	6.562	VV	351	5497	0.18%	0.008%
178	6.586	6.562	6.628	VV	1689	25289	0.81%	0.037%
179	6.640	6.628	6.655	VV	319	3903	0.13%	0.006%
180	6.661	6.655	6.666	VV	257	1357	0.04%	0.002%
181	6.676	6.666	6.692	VV	264	3263	0.10%	0.005%
182	6.700	6.692	6.709	VV	204	1550	0.05%	0.002%
183	6.750	6.709	6.794	VV	291967	2956809	94.79%	4.319%
184	6.798	6.794	6.804	VV	199	1063	0.03%	0.002%
185	6.825	6.804	6.871	VV	4755	51269	1.64%	0.075%
186	6.880	6.871	6.891	VV	295	3035	0.10%	0.004%
187	6.902	6.891	6.936	VV	405	6706	0.21%	0.010%
188	6.940	6.936	6.949	VV	171	1087	0.03%	0.002%
189	6.953	6.949	6.969	VV	176	1406	0.05%	0.002%
190	6.978	6.969	6.991	VV	154	1648	0.05%	0.002%
191	7.028	6.991	7.053	VV	319	6162	0.20%	0.009%
192	7.058	7.053	7.063	PV	76	336	0.01%	0.000%
193	7.077	7.063	7.092	VV	138	1591	0.05%	0.002%
194	7.097	7.092	7.107	VV	120	875	0.03%	0.001%

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rteres

195	7.115	7.107	7.120	VV	184	932	0.03%	0.001%
196	7.127	7.120	7.132	VV	191	1083		
197	7.137	7.132	7.144	VV	171	949		
198	7.149	7.144	7.155	VV	148	672		
199	7.161	7.155	7.182	VV	108	1077		
200	7.227	7.182	7.267	VV	822	18572		
201	7.281	7.267	7.308	VV	338	5981	0.19%	0.009%
202	7.324	7.308	7.355	VV	382	5680	0.18%	0.008%
203	7.380	7.355	7.401	VV	245	4683	0.15%	0.007%
204	7.424	7.401	7.455	VV	1224	17004	0.55%	0.025%
205	7.472	7.455	7.500	VV	387	6067	0.19%	0.009%
206	7.506	7.500	7.513	VV	84	441	0.01%	0.001%
207	7.529	7.513	7.551	VV	165	2478	0.08%	0.004%
208	7.563	7.551	7.597	VV	391	5178	0.17%	0.008%
209	7.605	7.597	7.616	VV	92	745	0.02%	0.001%
210	7.621	7.616	7.626	VV	52	231	0.01%	0.000%
211	7.653	7.626	7.675	VV	169	2990	0.10%	0.004%
212	7.697	7.675	7.729	VV	1083	13290	0.43%	0.019%
213	7.734	7.729	7.743	VV	72	323	0.01%	0.000%
214	7.762	7.743	7.777	PV	355	4177	0.13%	0.006%
215	7.782	7.777	7.795	VV	181	1157	0.04%	0.002%
216	7.815	7.795	7.863	VV	493	9313	0.30%	0.014%
217	7.872	7.863	7.901	VV	162	2181	0.07%	0.003%
218	7.916	7.901	7.948	VV	498	5675	0.18%	0.008%
219	7.950	7.948	7.956	VV	75	261	0.01%	0.000%
220	7.965	7.956	7.970	VV	120	681	0.02%	0.001%
221	7.987	7.970	8.018	VV	617	8234	0.26%	0.012%
222	8.041	8.018	8.058	VV	307	4322	0.14%	0.006%
223	8.067	8.058	8.091	VV	129	1555	0.05%	0.002%
224	8.123	8.091	8.143	VV	552	10808	0.35%	0.016%
225	8.156	8.143	8.175	VV	775	9046	0.29%	0.013%
226	8.184	8.175	8.204	VV	341	3726	0.12%	0.005%
227	8.228	8.204	8.250	VV	269	3412	0.11%	0.005%
228	8.273	8.250	8.293	PV	1027	12255	0.39%	0.018%
229	8.330	8.293	8.369	VV	1193	19192	0.62%	0.028%
230	8.401	8.369	8.429	VV	560	7783	0.25%	0.011%
231	8.434	8.429	8.438	VV	168	742	0.02%	0.001%
232	8.471	8.438	8.500	VV	738	13835	0.44%	0.020%
233	8.505	8.500	8.511	VV	214	1240	0.04%	0.002%
234	8.521	8.511	8.525	VV	237	1728	0.06%	0.003%
235	8.582	8.525	8.618	VV	278412	2951278	94.61%	4.311%
236	8.629	8.618	8.654	VV	372	5160	0.17%	0.008%
237	8.671	8.654	8.675	VV	216	2318	0.07%	0.003%
238	8.688	8.675	8.703	VV	286	3942	0.13%	0.006%
239	8.740	8.703	8.758	VV	399	9044	0.29%	0.013%
240	8.772	8.758	8.788	VV	276	4020	0.13%	0.006%
241	8.812	8.788	8.835	VV	508	7827	0.25%	0.011%
242	8.848	8.835	8.861	VV	312	3899	0.12%	0.006%
243	8.875	8.861	8.901	VV	515	8093	0.26%	0.012%
244	8.944	8.901	8.969	VV	604	12807	0.41%	0.019%
245	8.991	8.969	9.000	VV	333	5194	0.17%	0.008%
246	9.003	9.000	9.020	VV	304	3324	0.11%	0.005%

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Instrument :
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Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/04/2024
Supervised By :Ankita Jodhani 11/04/2024

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rteres

247	9.050	9.020	9.069	VV	915	15562	0.50%	0.023%
248	9.074	9.069	9.095	VV	397	4797		
249	9.121	9.095	9.156	VV	1165	19304		
250	9.181	9.156	9.196	VV	386	6863		
251	9.200	9.196	9.223	VV	396	4439		
252	9.232	9.223	9.237	VV	241	1456		
253	9.241	9.237	9.247	VV	214	1088	0.03%	0.002%
254	9.275	9.247	9.294	VV	308	6426	0.21%	0.009%
255	9.321	9.294	9.349	VV	619	13572	0.44%	0.020%
256	9.353	9.349	9.370	VV	266	2576	0.08%	0.004%
257	9.377	9.370	9.382	VV	219	1343	0.04%	0.002%
258	9.409	9.382	9.452	VV	2098	29857	0.96%	0.044%
259	9.463	9.452	9.478	VV	188	2374	0.08%	0.003%
260	9.494	9.478	9.523	VV	252	4155	0.13%	0.006%
261	9.526	9.523	9.530	VV	71	246	0.01%	0.000%
262	9.534	9.530	9.540	VV	87	415	0.01%	0.001%
263	9.548	9.540	9.579	VV	146	1708	0.05%	0.002%
264	9.600	9.579	9.607	PV	199	2185	0.07%	0.003%
265	9.614	9.607	9.619	VV	239	1341	0.04%	0.002%
266	9.625	9.619	9.639	VV	226	2032	0.07%	0.003%
267	9.643	9.639	9.659	VV	179	1445	0.05%	0.002%
268	9.673	9.659	9.677	VV	153	1118	0.04%	0.002%
269	9.689	9.677	9.695	VV	142	1199	0.04%	0.002%
270	9.699	9.695	9.703	VV	210	699	0.02%	0.001%
271	9.731	9.703	9.763	VV	3701	44398	1.42%	0.065%
272	9.788	9.763	9.816	VV	875	16728	0.54%	0.024%
273	9.833	9.816	9.842	VV	337	4234	0.14%	0.006%
274	9.865	9.842	9.890	VV	370	7728	0.25%	0.011%
275	9.920	9.890	9.939	VV	344	6664	0.21%	0.010%
276	9.971	9.939	9.998	VV	1372	18517	0.59%	0.027%
277	10.057	9.998	10.095	VV	74932	780687	25.03%	1.140%
278	10.125	10.095	10.143	VV	709	12009	0.38%	0.018%
279	10.147	10.143	10.157	VV	299	2512	0.08%	0.004%
280	10.193	10.157	10.231	VV	278287	3019894	96.81%	4.411%
281	10.238	10.231	10.244	VV	169	1205	0.04%	0.002%
282	10.248	10.244	10.253	VV	178	869	0.03%	0.001%
283	10.262	10.253	10.267	VV	237	1744	0.06%	0.003%
284	10.275	10.267	10.280	VV	260	1714	0.05%	0.003%
285	10.295	10.280	10.316	VV	451	6077	0.19%	0.009%
286	10.321	10.316	10.326	VV	144	544	0.02%	0.001%
287	10.332	10.326	10.350	VV	120	1133	0.04%	0.002%
288	10.361	10.350	10.383	VV	150	1896	0.06%	0.003%
289	10.386	10.383	10.391	VV	118	401	0.01%	0.001%
290	10.395	10.391	10.401	VV	82	362	0.01%	0.001%
291	10.411	10.401	10.416	VV	106	589	0.02%	0.001%
292	10.422	10.416	10.442	VV	119	981	0.03%	0.001%
293	10.446	10.442	10.450	PV	73	238	0.01%	0.000%
294	10.462	10.450	10.474	VV	121	1043	0.03%	0.002%
295	10.494	10.474	10.509	VV	271	3447	0.11%	0.005%
296	10.531	10.509	10.556	VV	709	10648	0.34%	0.016%
297	10.581	10.556	10.603	VV	943	14892	0.48%	0.022%
298	10.629	10.603	10.657	VV	425	9603	0.31%	0.014%
299	10.667	10.657	10.696	VV	313	4597	0.15%	0.007%

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300	10.730	10.696	10.764	VV	365	9037	0.29%	0.013%
301	10.791	10.764	10.804	VV	305	5152		
302	10.818	10.804	10.822	VV	305	2897		
303	10.833	10.822	10.850	VV	305	4339		
304	10.883	10.850	10.900	VV	652	11341		
305	10.932	10.900	10.976	VV	1841	30461		
306	11.005	10.976	11.048	VV	1360	26767	0.86%	0.039%
307	11.066	11.048	11.097	VV	461	8550	0.27%	0.012%
308	11.101	11.097	11.116	VV	124	844	0.03%	0.001%
309	11.131	11.116	11.137	PV	120	845	0.03%	0.001%
310	11.153	11.137	11.160	VV	173	2077	0.07%	0.003%
311	11.183	11.160	11.190	VV	977	10789	0.35%	0.016%
312	11.204	11.190	11.232	VV	2743	35467	1.14%	0.052%
313	11.236	11.232	11.242	VV	250	1457	0.05%	0.002%
314	11.257	11.242	11.287	VV	622	9860	0.32%	0.014%
315	11.304	11.287	11.318	VV	379	5511	0.18%	0.008%
316	11.324	11.318	11.342	VV	359	4429	0.14%	0.006%
317	11.356	11.342	11.370	VV	280	4007	0.13%	0.006%
318	11.390	11.370	11.417	VV	316	5086	0.16%	0.007%
319	11.420	11.417	11.425	VV	123	395	0.01%	0.001%
320	11.430	11.425	11.432	VV	81	295	0.01%	0.000%
321	11.450	11.432	11.465	VV	275	3818	0.12%	0.006%
322	11.472	11.465	11.486	VV	184	1962	0.06%	0.003%
323	11.497	11.486	11.510	VV	274	2474	0.08%	0.004%
324	11.514	11.510	11.529	VV	109	811	0.03%	0.001%
325	11.539	11.529	11.543	VV	166	867	0.03%	0.001%
326	11.547	11.543	11.552	VV	175	728	0.02%	0.001%
327	11.640	11.552	11.679	VV	269625	3119294	100.00%	4.556%
328	11.717	11.679	11.769	VV	1350	32480	1.04%	0.047%
329	11.796	11.769	11.818	VV	410	6221	0.20%	0.009%
330	11.833	11.818	11.862	VV	429	4577	0.15%	0.007%
331	11.893	11.862	11.932	PV	2858	40891	1.31%	0.060%
332	11.945	11.932	11.971	VV	445	7897	0.25%	0.012%
333	11.989	11.971	12.003	VV	321	4349	0.14%	0.006%
334	12.030	12.003	12.035	VV	373	5446	0.17%	0.008%
335	12.055	12.035	12.088	VV	864	15028	0.48%	0.022%
336	12.104	12.088	12.112	VV	526	6052	0.19%	0.009%
337	12.121	12.112	12.154	VV	585	9337	0.30%	0.014%
338	12.164	12.154	12.180	VV	317	3722	0.12%	0.005%
339	12.186	12.180	12.201	VV	202	1894	0.06%	0.003%
340	12.206	12.201	12.219	VV	169	1340	0.04%	0.002%
341	12.246	12.219	12.251	VV	220	2458	0.08%	0.004%
342	12.261	12.251	12.273	VV	248	2625	0.08%	0.004%
343	12.309	12.273	12.342	VV	1763	34915	1.12%	0.051%
344	12.363	12.342	12.377	VV	473	7323	0.23%	0.011%
345	12.400	12.377	12.453	VV	2895	45416	1.46%	0.066%
346	12.461	12.453	12.492	VV	386	4772	0.15%	0.007%
347	12.565	12.492	12.624	PV	159722	2154315	69.06%	3.147%
348	12.637	12.624	12.656	VV	1850	30859	0.99%	0.045%
349	12.666	12.656	12.710	VV	1329	32536	1.04%	0.048%
350	12.723	12.710	12.759	VV	903	20577	0.66%	0.030%
351	12.778	12.759	12.791	VV	632	10379	0.33%	0.015%

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Manual IntegrationsAPPROVED

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rteres

352	12.808	12.791	12.820	VV	459	6835	0.22%	0.010%
353	12.840	12.820	12.850	VV	445	6231		
354	12.887	12.850	12.911	VV	748	19982		
355	12.953	12.911	12.985	VV	255307	3038849	97	
356	13.007	12.985	13.056	VV	2642	52041	1	
357	13.069	13.056	13.097	VV	404	6619		
358	13.107	13.097	13.125	VV	210	2662	0.09%	0.004%
359	13.131	13.125	13.155	VV	182	2001	0.06%	0.003%
360	13.190	13.155	13.277	VV	2257	49232	1.58%	0.072%
361	13.304	13.277	13.328	VV	2135	25042	0.80%	0.037%
362	13.349	13.328	13.383	VV	1357	23600	0.76%	0.034%
363	13.399	13.383	13.412	VV	279	3712	0.12%	0.005%
364	13.422	13.412	13.431	VV	195	1654	0.05%	0.002%
365	13.435	13.431	13.442	VV	175	1032	0.03%	0.002%
366	13.445	13.442	13.471	VV	203	2756	0.09%	0.004%
367	13.482	13.471	13.487	VV	200	1490	0.05%	0.002%
368	13.509	13.487	13.529	VV	352	4826	0.15%	0.007%
369	13.576	13.529	13.608	PV	9410	151965	4.87%	0.222%
370	13.629	13.608	13.701	VV	4747	108333	3.47%	0.158%
371	13.709	13.701	13.742	VV	673	12382	0.40%	0.018%
372	13.792	13.742	13.875	VV	52471	681374	21.84%	0.995%
373	13.891	13.875	13.920	VV	857	17057	0.55%	0.025%
374	13.941	13.920	13.953	VV	417	7162	0.23%	0.010%
375	13.958	13.953	13.963	VV	438	2180	0.07%	0.003%
376	13.996	13.963	14.027	VV	940	19180	0.61%	0.028%
377	14.046	14.027	14.055	VV	254	3305	0.11%	0.005%
378	14.102	14.055	14.120	VV	2139	35703	1.14%	0.052%
379	14.152	14.120	14.199	VV	242121	2991850	95.91%	4.370%
380	14.213	14.199	14.230	VV	344	3780	0.12%	0.006%
381	14.247	14.230	14.260	VV	255	2951	0.09%	0.004%
382	14.290	14.260	14.319	VV	293	6631	0.21%	0.010%
383	14.330	14.319	14.335	VV	106	644	0.02%	0.001%
384	14.383	14.335	14.411	VV	493	11293	0.36%	0.016%
385	14.419	14.411	14.433	VV	114	1139	0.04%	0.002%
386	14.444	14.433	14.455	VV	108	919	0.03%	0.001%
387	14.462	14.455	14.472	VV	72	292	0.01%	0.000%
388	14.478	14.472	14.492	PV	142	895	0.03%	0.001%
389	14.543	14.492	14.598	PV	2333	52426	1.68%	0.077%
390	14.624	14.598	14.643	VV	562	11887	0.38%	0.017%
391	14.667	14.643	14.686	VV	533	8421	0.27%	0.012%
392	14.715	14.686	14.752	VV	5542	82947	2.66%	0.121%
393	14.772	14.752	14.799	VV	1972	33055	1.06%	0.048%
394	14.812	14.799	14.853	VV	931	17751	0.57%	0.026%
395	14.873	14.853	14.894	VV	497	7715	0.25%	0.011%
396	14.934	14.894	14.966	PV	2427	40016	1.28%	0.058%
397	14.971	14.966	14.986	VV	548	5517	0.18%	0.008%
398	14.991	14.986	15.013	VV	389	4751	0.15%	0.007%
399	15.053	15.013	15.089	VV	110786	1510343	48.42%	2.206%
400	15.101	15.089	15.140	VV	991	18768	0.60%	0.027%
401	15.145	15.140	15.158	VV	354	3377	0.11%	0.005%
402	15.182	15.158	15.199	VV	1273	16319	0.52%	0.024%
403	15.257	15.199	15.290	VV	236070	3005471	96.35%	4.390%
404	15.299	15.290	15.328	VV	775	10545	0.34%	0.015%

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405	15.342	15.328	15.360	VV	283	4225	0.14%	0.006%
406	15.377	15.360	15.387	VV	255	3301		
407	15.392	15.387	15.412	VV	286	2051		
408	15.418	15.412	15.423	PV	151	509		
409	15.448	15.423	15.463	VV	312	4752		
410	15.481	15.463	15.489	VV	387	4272		
411	15.494	15.489	15.500	VV	297	1726	0.06%	0.003%
412	15.504	15.500	15.508	VV	212	846	0.03%	0.001%
413	15.513	15.508	15.521	VV	188	1197	0.04%	0.002%
414	15.526	15.521	15.546	VV	174	1409	0.05%	0.002%
415	15.563	15.546	15.568	PV	229	1335	0.04%	0.002%
416	15.596	15.568	15.601	VV	311	4478	0.14%	0.007%
417	15.633	15.601	15.746	VV	56792	882579	28.29%	1.289%
418	15.777	15.746	15.808	VV	7232	113117	3.63%	0.165%
419	15.821	15.808	15.832	VV	1402	17074	0.55%	0.025%
420	15.852	15.832	15.879	VV	3620	51316	1.65%	0.075%
421	15.902	15.879	15.937	VV	626	11838	0.38%	0.017%
422	15.954	15.937	15.965	PV	185	1566	0.05%	0.002%
423	15.989	15.965	16.018	VV	2039	33790	1.08%	0.049%
424	16.023	16.018	16.055	VV	672	10965	0.35%	0.016%
425	16.097	16.055	16.119	VV	606	13964	0.45%	0.020%
426	16.153	16.119	16.202	VV	1944	41798	1.34%	0.061%
427	16.206	16.202	16.230	VV	419	4950	0.16%	0.007%
428	16.281	16.230	16.319	VV	216179	2921679	93.66%	4.268%
429	16.339	16.319	16.353	VV	470	7263	0.23%	0.011%
430	16.362	16.353	16.392	VV	283	4315	0.14%	0.006%
431	16.412	16.392	16.424	PV	96	996	0.03%	0.001%
432	16.468	16.424	16.473	PV	731	10187	0.33%	0.015%
433	16.476	16.473	16.505	VV	702	8465	0.27%	0.012%
434	16.521	16.505	16.547	VV	467	7627	0.24%	0.011%
435	16.578	16.547	16.622	VV	1531	38695	1.24%	0.057%
436	16.650	16.622	16.678	VV	5676	105133	3.37%	0.154%
437	16.694	16.678	16.718	VV	2671	41298	1.32%	0.060%
438	16.761	16.718	16.795	VV	7618	134363	4.31%	0.196%
439	16.799	16.795	16.815	VV	182	1428	0.05%	0.002%
440	16.841	16.815	16.865	PV	1380	20996	0.67%	0.031%
441	16.880	16.865	16.887	VV	622	6412	0.21%	0.009%
442	16.892	16.887	16.903	VV	544	4620	0.15%	0.007%
443	16.908	16.903	16.911	VV	459	2276	0.07%	0.003%
444	16.922	16.911	16.941	VV	536	7390	0.24%	0.011%
445	16.962	16.941	16.966	VV	471	4915	0.16%	0.007%
446	16.974	16.966	16.991	VV	572	6058	0.19%	0.009%
447	17.028	16.991	17.047	VV	1700	39568	1.27%	0.058%
448	17.062	17.047	17.090	VV	1918	33729	1.08%	0.049%
449	17.119	17.090	17.167	VV	1786	37627	1.21%	0.055%
450	17.230	17.167	17.264	VV	205770	2850472	91.38%	4.164%
451	17.279	17.264	17.339	VV	3745	65638	2.10%	0.096%
452	17.351	17.339	17.357	PV	229	1515	0.05%	0.002%
453	17.365	17.357	17.374	VV	158	1235	0.04%	0.002%
454	17.407	17.374	17.412	VV	161	1586	0.05%	0.002%
455	17.438	17.412	17.451	VV	582	8091	0.26%	0.012%
456	17.486	17.451	17.507	VV	753	15120	0.48%	0.022%

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					rteres			
457	17.526	17.507	17.533	VV	444	4978	0.16%	0.007%
458	17.565	17.533	17.569	VV	778	13018		
459	17.596	17.569	17.637	VV	3039	72823		
460	17.679	17.637	17.711	VV	8580	143328		
461	17.722	17.711	17.735	VV	444	4333		
462	17.759	17.735	17.771	VV	680	8152		
463	17.798	17.771	17.826	VV	883	17133	0.55%	0.025%
464	17.857	17.826	17.872	PV	685	10272	0.33%	0.015%
465	17.885	17.872	17.895	VV	407	3564	0.11%	0.005%
466	17.905	17.895	17.910	VV	374	2394	0.08%	0.003%
467	17.913	17.910	17.921	VV	240	985	0.03%	0.001%
468	17.926	17.921	17.935	VV	117	598	0.02%	0.001%
469	17.959	17.935	17.978	PV	850	12517	0.40%	0.018%
470	18.011	17.978	18.026	VV	1097	21210	0.68%	0.031%
471	18.071	18.026	18.084	VV	3270	62541	2.00%	0.091%
472	18.120	18.084	18.155	VV	192571	2699238	86.53%	3.943%
473	18.170	18.155	18.175	VV	980	10437	0.33%	0.015%
474	18.207	18.175	18.228	VV	2177	38265	1.23%	0.056%
475	18.269	18.228	18.322	VV	3675	100078	3.21%	0.146%
476	18.347	18.322	18.373	VV	1667	33301	1.07%	0.049%
477	18.379	18.373	18.382	VV	629	3182	0.10%	0.005%
478	18.400	18.382	18.412	VV	767	11123	0.36%	0.016%
479	18.441	18.412	18.446	VV	2935	33290	1.07%	0.049%
480	18.473	18.446	18.519	VV	29657	578838	18.56%	0.846%
481	18.541	18.519	18.578	VV	9254	156682	5.02%	0.229%
482	18.585	18.578	18.592	VV	1000	7241	0.23%	0.011%
483	18.634	18.592	18.669	VV	4731	101119	3.24%	0.148%
484	18.676	18.669	18.693	VV	1427	16842	0.54%	0.025%
485	18.705	18.693	18.718	VV	984	12574	0.40%	0.018%
486	18.744	18.718	18.772	VV	1985	39458	1.26%	0.058%
487	18.796	18.772	18.802	VV	1050	15469	0.50%	0.023%
488	18.805	18.802	18.815	VV	933	7019	0.23%	0.010%
489	18.832	18.815	18.836	VV	846	9472	0.30%	0.014%
490	18.852	18.836	18.865	VV	1113	14598	0.47%	0.021%
491	18.900	18.865	18.906	VV	1860	30988	0.99%	0.045%
492	18.951	18.906	19.002	VV	157055	2285975	73.29%	3.339%
493	19.061	19.002	19.086	VV	5966	160505	5.15%	0.234%
494	19.109	19.086	19.139	VV	3926	89838	2.88%	0.131%
495	19.148	19.139	19.154	VV	2081	16281	0.52%	0.024%
496	19.189	19.154	19.194	VV	1964	43561	1.40%	0.064%
497	19.217	19.194	19.226	VV	2268	41297	1.32%	0.060%
498	19.234	19.226	19.238	VV	2099	14560	0.47%	0.021%
499	19.304	19.238	19.334	VV	24529	537224	17.22%	0.785%
500	19.352	19.334	19.380	VV	11056	238097	7.63%	0.348%
501	19.385	19.380	19.393	VV	4894	36473	1.17%	0.053%
502	19.398	19.393	19.404	VV	4476	29677	0.95%	0.043%
503	19.421	19.404	19.435	VV	5019	85983	2.76%	0.126%
504	19.462	19.435	19.471	VV	5027	100509	3.22%	0.147%
505	19.493	19.471	19.517	VV	6184	149694	4.80%	0.219%
506	19.521	19.517	19.530	VV	4925	36939	1.18%	0.054%
507	19.548	19.530	19.570	VV	7371	136238	4.37%	0.199%
508	19.587	19.570	19.617	VV	5128	136862	4.39%	0.200%
509	19.623	19.617	19.626	VV	4633	24422	0.78%	0.036%

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Instrument :
FID_G
ClientSampleId :
RES-BUILDING-PAD-NO-2MS

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/04/2024
Supervised By :Ankita Jodhani 11/04/2024

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rteres

510	19.642	19.626	19.674	VV	5182	135935	4.36%	0.199%
511	19.736	19.674	19.788	VV	106072	1815757	58	
512	19.802	19.788	19.814	VV	6751	102856	3	
513	19.838	19.814	19.871	VV	7742	232128	7	
514	19.901	19.871	19.935	VV	7888	256795	8	
515	19.971	19.935	19.977	VV	6552	153079	4	
516	19.983	19.977	19.992	VV	6493	54752	1.76%	0.080%
517	20.016	19.992	20.040	VV	7388	197571	6.33%	0.289%
518	20.043	20.040	20.049	VV	6706	35407	1.14%	0.052%
519	20.104	20.049	20.145	VV	13770	593742	19.03%	0.867%
520	20.150	20.145	20.178	VV	8600	164913	5.29%	0.241%
521	20.187	20.178	20.195	VV	8270	82010	2.63%	0.120%
522	20.198	20.195	20.204	VV	8031	42089	1.35%	0.061%
523	20.211	20.204	20.217	VV	8137	64360	2.06%	0.094%
524	20.277	20.217	20.294	VV	10003	410377	13.16%	0.599%
525	20.326	20.294	20.337	VV	12152	290219	9.30%	0.424%
526	20.359	20.337	20.380	VV	13720	317925	10.19%	0.464%
527	20.385	20.380	20.389	VV	11887	62334	2.00%	0.091%
528	20.391	20.389	20.412	VV	11802	156397	5.01%	0.228%
529	20.476	20.412	20.510	VV	79059	1696282	54.38%	2.478%
530	20.548	20.510	20.566	VV	13871	442128	14.17%	0.646%
531	20.579	20.566	20.599	VV	13568	258801	8.30%	0.378%
532	20.636	20.599	20.671	VV	24978	751489	24.09%	1.098%
533	20.709	20.671	20.719	VV	16152	437705	14.03%	0.639%
534	20.744	20.719	20.751	VV	16427	313840	10.06%	0.458%
535	20.759	20.751	20.806	VV	16319	511479	16.40%	0.747%
536	20.833	20.806	20.858	VV	16945	472173	15.14%	0.690%
537	20.866	20.858	20.874	VV	13860	137173	4.40%	0.200%
538	20.882	20.874	20.911	VV	14118	301153	9.65%	0.440%
539	20.953	20.911	20.997	VV	14679	707510	22.68%	1.033%
540	21.000	20.997	21.044	VV	12884	349552	11.21%	0.511%
541	21.092	21.044	21.096	VV	12519	378469	12.13%	0.553%
542	21.100	21.096	21.103	VV	12510	48959	1.57%	0.072%
543	21.122	21.103	21.127	VV	12468	181398	5.82%	0.265%
544	21.134	21.127	21.158	VV	12409	220031	7.05%	0.321%
545	21.171	21.158	21.186	VV	11740	195170	6.26%	0.285%
546	21.227	21.186	21.270	VV	58273	1384880	44.40%	2.023%
547	21.279	21.270	21.298	VV	10471	177747	5.70%	0.260%
548	21.311	21.298	21.318	VV	10295	121391	3.89%	0.177%
549	21.328	21.318	21.344	VV	10074	152270	4.88%	0.222%
550	21.362	21.344	21.388	VV	9935	257972	8.27%	0.377%
551	21.392	21.388	21.434	VV	9560	237297	7.61%	0.347%
552	21.439	21.434	21.445	VV	7880	53198	1.71%	0.078%
553	21.452	21.445	21.468	VV	7600	100333	3.22%	0.147%
554	21.472	21.468	21.480	VV	7302	51336	1.65%	0.075%
555	21.485	21.480	21.496	VV	7179	68440	2.19%	0.100%
556	21.503	21.496	21.509	VV	7426	56918	1.82%	0.083%
557	21.539	21.509	21.542	VV	8102	157185	5.04%	0.230%
558	21.547	21.542	21.566	VV	8049	112872	3.62%	0.165%
559	21.587	21.566	21.591	VV	7775	114365	3.67%	0.167%
560	21.596	21.591	21.618	VV	7728	117440	3.76%	0.172%
561	21.664	21.618	21.721	VV	8373	429791	13.78%	0.628%

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Instrument :
FID_G
ClientSampleId :
RES-BUILDING-PAD-NO-2MS

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/04/2024
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A B C D E F G H I J

rteres

562	21.726	21.721	21.733	VV	5479	38391	1.23%	0.056%
563	21.741	21.733	21.751	VV	5240	54102	1	
564	21.767	21.751	21.771	VV	4903	58239	1	
565	21.787	21.771	21.791	VV	5260	60860	1	
566	21.811	21.791	21.824	VV	5450	103029	3	
567	21.842	21.824	21.863	VV	5568	121654	3	
568	21.900	21.863	21.940	VV	5615	234216	7.51%	0.342%
569	21.950	21.940	21.997	VV	4233	120482	3.86%	0.176%
570	22.002	21.997	22.028	VV	2726	46327	1.49%	0.068%
571	22.066	22.028	22.085	VV	2638	81872	2.62%	0.120%
572	22.170	22.085	22.255	VV	35297	1031422	33.07%	1.507%
573	22.260	22.255	22.298	VV	1364	18575	0.60%	0.027%

Sum of corrected areas: 68458318

FG102124.M Mon Nov 04 03:06:01 2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG110124\
Data File : FG014630.D
Signal(s) : FID1A.ch
Acq On : 01 Nov 2024 19:56
Operator : YP\AJ
Sample : P4663-08MSD
Misc :
ALS Vial : 28 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
RES-BUILDING-PAD-NO-2MSD

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 11/04/2024
Supervised By :Ankita Jodhani 11/04/2024

Integration File: autoint1.e
Quant Time: Nov 04 01:31:38 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG102124.M
Quant Title :
QLast Update : Mon Oct 21 17:03:32 2024
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...	15.051	1421604	11.886 ug/ml
	Target Compounds			
1)	N-OCTANE	2.065	2240850	18.581 ug/ml
2)	N-DECANE	4.579	2666684	21.537 ug/ml
3)	N-DODECANE	6.750	2840220	22.536 ug/ml
4)	N-TETRADECANE	8.582	2820531	21.951 ug/ml
5)	N-HEXADECANE	10.193	2884589	22.153 ug/ml
6)	N-OCTADECANE	11.639	2978510	22.197 ug/ml
7)	N-EICOSANE	12.952	2895860	21.240 ug/ml
8)	N-DOCOSANE	14.152	2857076	21.521 ug/ml
10)	N-TETRACOSANE	15.258	2856742	21.432 ug/ml
11)	N-HEXACOSANE	16.280	2794155	20.992 ug/ml
12)	N-OCTACOSANE	17.232	2728841	20.577 ug/ml
13)	N-TRIACONTANE	18.120	2592111	19.363 ug/ml
14)	N-DOTRIACONTANE	18.952	2179020	16.475 ug/ml
15)	N-TETRATRIACONTANE	19.737	1412884	11.185 ug/ml
16)	N-HEXATRIACONTANE	20.477	1003652	8.672 ug/mlm
17)	N-OCTATRIACONTANE	21.226	872229	8.243 ug/ml
18)	N-TETRACONTANE	22.169	877433	9.237 ug/ml

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

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG110124\
Data File : FG014630.D
Signal(s) : FID1A.ch
Acq On : 01 Nov 2024 19:56
Operator : YP\AJ
Sample : P4663-08MSD
Misc :
ALS Vial : 28 Sample Multiplier: 1

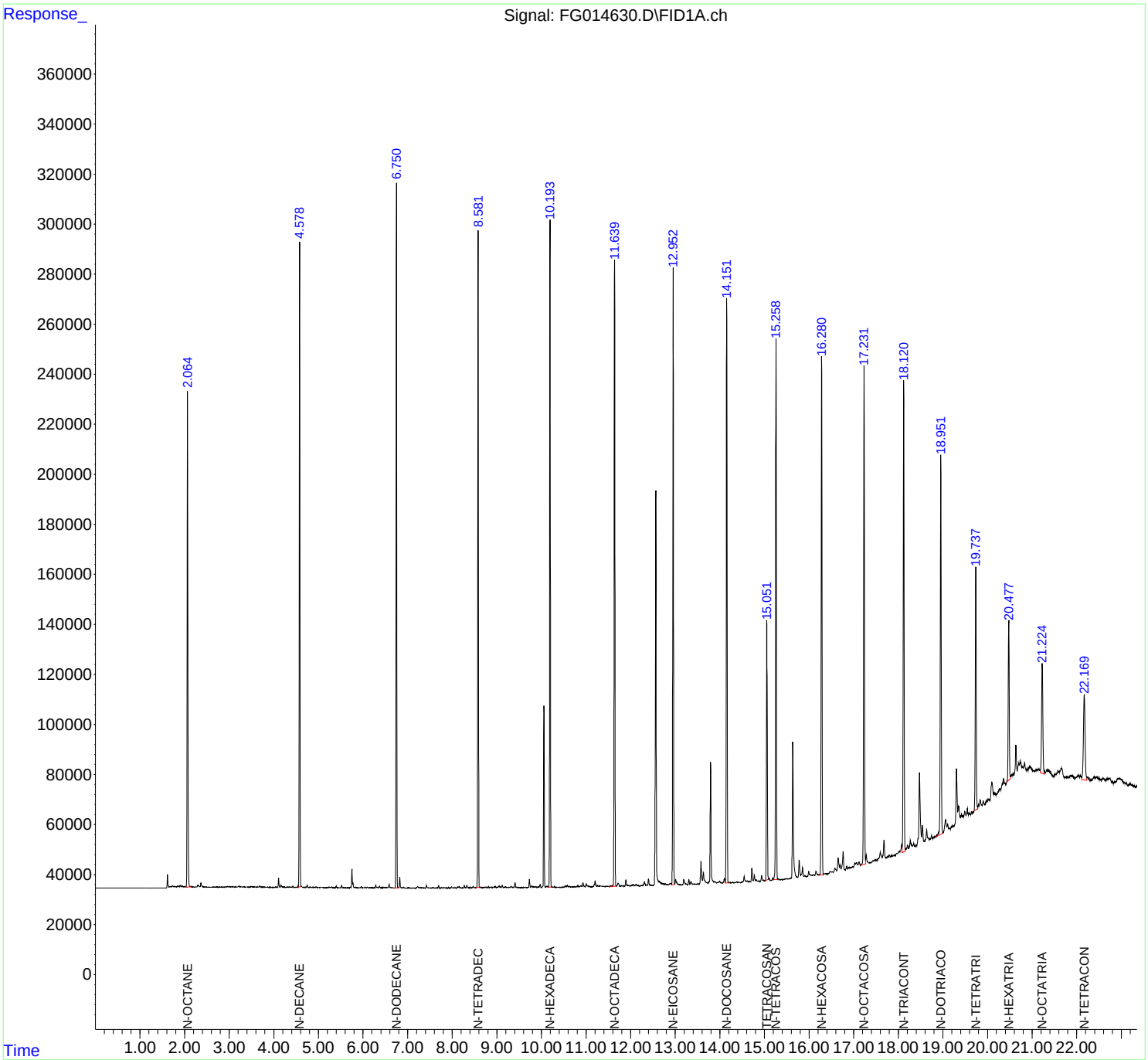
Integration File: autoint1.e
Quant Time: Nov 04 01:31:38 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG102124.M
Quant Title :
QLast Update : Mon Oct 21 17:03:32 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal Phase : Rxi-1ms
Signal Info : 20mx0.18mmx0.18um

Instrument :
FID_G
ClientSampleId :
RES-BUILDING-PAD-NO-2MSD

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/04/2024
Supervised By :Ankita Jodhani 11/04/2024



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Instrument :
FID_G
ClientSampleId :
RES-BUILDING-PAD-NO-2MSD

rteres

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/04/2024
Supervised By :Ankita Jodhani 11/04/2024

A B C D E F G H I J

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG11012
Data File : FG014630.D
Signal(s) : FID1A.ch
Acq On : 01 Nov 2024 19:56
Sample : P4663-08MSD
Misc :
ALS Vial : 28 Sample Multiplier: 1

Integration File: Sample.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG102124.M
Title :

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	1.935	1.912	1.948	BV	-15	-1450	-0.05%	-0.002%
2	1.957	1.948	1.984	PV	128	1510	0.05%	0.002%
3	2.006	1.984	2.029	PV	335	3962	0.13%	0.006%
4	2.065	2.029	2.135	PV	197914	2244718	75.37%	3.313%
5	2.138	2.135	2.148	VV	217	1383	0.05%	0.002%
6	2.151	2.148	2.157	VV	215	961	0.03%	0.001%
7	2.162	2.157	2.171	VV	166	1158	0.04%	0.002%
8	2.176	2.171	2.193	VV	176	1499	0.05%	0.002%
9	2.197	2.193	2.213	VV	122	1077	0.04%	0.002%
10	2.223	2.213	2.232	VV	126	960	0.03%	0.001%
11	2.237	2.232	2.245	VV	80	509	0.02%	0.001%
12	2.248	2.245	2.258	VV	91	607	0.02%	0.001%
13	2.301	2.258	2.346	VV	886	21198	0.71%	0.031%
14	2.365	2.346	2.421	VV	1744	29006	0.97%	0.043%
15	2.428	2.421	2.445	VV	166	1674	0.06%	0.002%
16	2.466	2.445	2.471	VV	142	1635	0.05%	0.002%
17	2.475	2.471	2.482	VV	121	578	0.02%	0.001%
18	2.486	2.482	2.498	VV	120	712	0.02%	0.001%
19	2.501	2.498	2.511	VV	93	306	0.01%	0.000%
20	2.515	2.511	2.535	PV	53	560	0.02%	0.001%
21	2.547	2.535	2.574	VV	118	1696	0.06%	0.003%
22	2.579	2.574	2.584	VV	37	180	0.01%	0.000%
23	2.594	2.584	2.613	VV	48	554	0.02%	0.001%
24	2.616	2.613	2.621	VV	67	202	0.01%	0.000%
25	2.626	2.621	2.646	VV	90	834	0.03%	0.001%
26	2.660	2.646	2.671	VV	96	859	0.03%	0.001%
27	2.675	2.671	2.691	VV	83	719	0.02%	0.001%
28	2.714	2.691	2.736	VV	252	3558	0.12%	0.005%
29	2.762	2.736	2.770	VV	152	2317	0.08%	0.003%
30	2.774	2.770	2.780	VV	147	586	0.02%	0.001%
31	2.786	2.780	2.797	VV	133	888	0.03%	0.001%
32	2.799	2.797	2.807	VV	101	493	0.02%	0.001%
33	2.815	2.807	2.822	VV	130	971	0.03%	0.001%
34	2.826	2.822	2.836	VV	158	981	0.03%	0.001%
35	2.841	2.836	2.845	VV	108	436	0.01%	0.001%
36	2.858	2.845	2.865	VV	190	1501	0.05%	0.002%

Page 1

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Instrument :
FID_G
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RES-BUILDING-PAD-NO-2MSD

Manual IntegrationsAPPROVED

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A B C D E F G H I J

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37	2.880	2.865	2.904	VV	183	3363	0.11%	0.005%
38	2.914	2.904	2.920	VV	196	1403	0	
39	2.951	2.920	2.976	VV	330	8901	0	
40	2.983	2.976	2.990	VV	267	2041	0	
41	2.993	2.990	3.003	VV	283	1579	0	
42	3.023	3.003	3.052	VV	333	7007	0	
43	3.070	3.052	3.098	VV	317	6232	0.21%	0.009%
44	3.102	3.098	3.107	VV	213	984	0.03%	0.001%
45	3.112	3.107	3.122	VV	203	1499	0.05%	0.002%
46	3.148	3.122	3.166	VV	255	5155	0.17%	0.008%
47	3.179	3.166	3.184	VV	207	2013	0.07%	0.003%
48	3.209	3.184	3.249	VV	509	13035	0.44%	0.019%
49	3.252	3.249	3.261	VV	359	1963	0.07%	0.003%
50	3.265	3.261	3.279	VV	284	2688	0.09%	0.004%
51	3.290	3.279	3.298	VV	233	2291	0.08%	0.003%
52	3.326	3.298	3.353	VV	333	7584	0.25%	0.011%
53	3.358	3.353	3.379	VV	251	3135	0.11%	0.005%
54	3.383	3.379	3.387	VV	223	998	0.03%	0.001%
55	3.393	3.387	3.402	VV	221	1701	0.06%	0.003%
56	3.406	3.402	3.418	VV	219	1850	0.06%	0.003%
57	3.423	3.418	3.431	VV	224	1480	0.05%	0.002%
58	3.436	3.431	3.443	VV	197	1308	0.04%	0.002%
59	3.454	3.443	3.461	VV	221	2132	0.07%	0.003%
60	3.485	3.461	3.493	VV	355	5233	0.18%	0.008%
61	3.501	3.493	3.508	VV	374	2983	0.10%	0.004%
62	3.515	3.508	3.525	VV	331	3153	0.11%	0.005%
63	3.529	3.525	3.536	VV	301	1704	0.06%	0.003%
64	3.544	3.536	3.552	VV	308	2686	0.09%	0.004%
65	3.563	3.552	3.587	VV	304	5598	0.19%	0.008%
66	3.591	3.587	3.608	VV	242	2720	0.09%	0.004%
67	3.614	3.608	3.618	VV	213	1189	0.04%	0.002%
68	3.621	3.618	3.628	VV	230	1201	0.04%	0.002%
69	3.633	3.628	3.639	VV	283	1554	0.05%	0.002%
70	3.643	3.639	3.654	VV	267	2214	0.07%	0.003%
71	3.659	3.654	3.667	VV	236	1573	0.05%	0.002%
72	3.687	3.667	3.723	VV	701	12198	0.41%	0.018%
73	3.728	3.723	3.732	VV	224	1111	0.04%	0.002%
74	3.737	3.732	3.740	VV	219	956	0.03%	0.001%
75	3.746	3.740	3.764	VV	243	3004	0.10%	0.004%
76	3.780	3.764	3.791	VV	329	3971	0.13%	0.006%
77	3.794	3.791	3.804	VV	256	1714	0.06%	0.003%
78	3.809	3.804	3.830	VV	259	3262	0.11%	0.005%
79	3.836	3.830	3.847	VV	194	1664	0.06%	0.002%
80	3.851	3.847	3.857	VV	173	777	0.03%	0.001%
81	3.867	3.857	3.873	VV	212	1563	0.05%	0.002%
82	3.877	3.873	3.895	VV	173	1753	0.06%	0.003%
83	3.909	3.895	3.919	VV	220	2310	0.08%	0.003%
84	3.924	3.919	3.940	VV	159	1619	0.05%	0.002%
85	3.951	3.940	3.982	VV	199	3548	0.12%	0.005%
86	3.998	3.982	4.003	VV	167	1651	0.06%	0.002%
87	4.009	4.003	4.016	VV	186	1096	0.04%	0.002%
88	4.042	4.016	4.070	VV	278	5940	0.20%	0.009%
89	4.073	4.070	4.086	VV	198	1512	0.05%	0.002%

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90	4.108	4.086	4.141	VV	3909	40572	1.36%	0.060%
91	4.160	4.141	4.205	VV	1200	21095		
92	4.218	4.205	4.247	VV	326	6629		
93	4.251	4.247	4.259	VV	210	1485		
94	4.261	4.259	4.272	VV	219	1387		
95	4.304	4.272	4.331	VV	269	7791		
96	4.350	4.331	4.377	VV	427	7311	0.25%	0.011%
97	4.379	4.377	4.385	VV	243	1047	0.04%	0.002%
98	4.394	4.385	4.400	VV	257	1982	0.07%	0.003%
99	4.405	4.400	4.409	VV	260	1350	0.05%	0.002%
100	4.425	4.409	4.448	VV	539	7634	0.26%	0.011%
101	4.453	4.448	4.457	VV	207	1002	0.03%	0.001%
102	4.462	4.457	4.469	VV	220	1325	0.04%	0.002%
103	4.475	4.469	4.488	VV	217	2187	0.07%	0.003%
104	4.495	4.488	4.503	VV	203	1599	0.05%	0.002%
105	4.509	4.503	4.515	VV	244	1303	0.04%	0.002%
106	4.533	4.515	4.545	VV	518	4385	0.15%	0.006%
107	4.579	4.545	4.612	VV	257563	2681205	90.02%	3.957%
108	4.622	4.612	4.655	VV	609	9246	0.31%	0.014%
109	4.661	4.655	4.668	VV	233	1428	0.05%	0.002%
110	4.675	4.668	4.679	VV	226	1329	0.04%	0.002%
111	4.683	4.679	4.698	VV	223	2204	0.07%	0.003%
112	4.705	4.698	4.719	VV	255	2424	0.08%	0.004%
113	4.724	4.719	4.730	VV	187	1028	0.03%	0.002%
114	4.748	4.730	4.784	VV	1099	14141	0.47%	0.021%
115	4.796	4.784	4.801	VV	226	1928	0.06%	0.003%
116	4.808	4.801	4.818	VV	239	2256	0.08%	0.003%
117	4.827	4.818	4.835	VV	240	1999	0.07%	0.003%
118	4.838	4.835	4.846	VV	186	988	0.03%	0.001%
119	4.850	4.846	4.854	VV	146	670	0.02%	0.001%
120	4.889	4.854	4.912	VV	252	6745	0.23%	0.010%
121	4.923	4.912	4.928	VV	245	1651	0.06%	0.002%
122	4.951	4.928	4.972	VV	346	5865	0.20%	0.009%
123	4.976	4.972	4.986	VV	221	1464	0.05%	0.002%
124	4.998	4.986	5.006	VV	207	2215	0.07%	0.003%
125	5.015	5.006	5.031	VV	206	2583	0.09%	0.004%
126	5.035	5.031	5.041	VV	196	813	0.03%	0.001%
127	5.058	5.041	5.064	VV	215	2488	0.08%	0.004%
128	5.072	5.064	5.081	VV	200	1715	0.06%	0.003%
129	5.091	5.081	5.103	VV	204	2120	0.07%	0.003%
130	5.107	5.103	5.115	VV	183	1173	0.04%	0.002%
131	5.125	5.115	5.153	VV	153	2399	0.08%	0.004%
132	5.169	5.153	5.175	VV	198	1905	0.06%	0.003%
133	5.187	5.175	5.198	VV	185	1812	0.06%	0.003%
134	5.203	5.198	5.208	VV	124	670	0.02%	0.001%
135	5.240	5.208	5.265	VV	443	8076	0.27%	0.012%
136	5.275	5.265	5.319	VV	336	7303	0.25%	0.011%
137	5.329	5.319	5.333	VV	175	1236	0.04%	0.002%
138	5.337	5.333	5.358	VV	169	1910	0.06%	0.003%
139	5.361	5.358	5.366	VV	126	456	0.02%	0.001%
140	5.370	5.366	5.376	VV	156	619	0.02%	0.001%
141	5.398	5.376	5.422	VV	765	8876	0.30%	0.013%

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142	5.432	5.422	5.439	VV	149	1042	0.03%	0.002%
143	5.458	5.439	5.465	VV	137	1421		
144	5.472	5.465	5.480	VV	107	744		
145	5.487	5.480	5.498	VV	131	1009		
146	5.521	5.498	5.543	VV	1145	12792		
147	5.560	5.543	5.586	VV	207	3149		
148	5.593	5.586	5.627	VV	201	2429	0.08%	0.004%
149	5.635	5.627	5.643	PV	18	159	0.01%	0.000%
150	5.655	5.643	5.684	VV	122	2022	0.07%	0.003%
151	5.688	5.684	5.693	VV	116	450	0.02%	0.001%
152	5.717	5.693	5.732	VV	439	5257	0.18%	0.008%
153	5.752	5.732	5.768	VV	7590	72903	2.45%	0.108%
154	5.775	5.768	5.809	VV	2047	20221	0.68%	0.030%
155	5.825	5.809	5.840	VV	462	5198	0.17%	0.008%
156	5.844	5.840	5.850	VV	225	996	0.03%	0.001%
157	5.857	5.850	5.873	VV	198	1853	0.06%	0.003%
158	5.878	5.873	5.883	VV	120	630	0.02%	0.001%
159	5.887	5.883	5.896	VV	131	932	0.03%	0.001%
160	5.904	5.896	5.930	VV	190	2907	0.10%	0.004%
161	5.962	5.930	5.995	VV	638	10753	0.36%	0.016%
162	6.003	5.995	6.013	VV	164	1499	0.05%	0.002%
163	6.042	6.013	6.067	VV	439	7246	0.24%	0.011%
164	6.093	6.067	6.123	VV	442	7890	0.26%	0.012%
165	6.130	6.123	6.134	VV	171	822	0.03%	0.001%
166	6.139	6.134	6.145	VV	131	720	0.02%	0.001%
167	6.157	6.145	6.183	VV	228	3695	0.12%	0.005%
168	6.198	6.183	6.207	VV	244	2313	0.08%	0.003%
169	6.212	6.207	6.220	VV	143	959	0.03%	0.001%
170	6.229	6.220	6.244	VV	177	1945	0.07%	0.003%
171	6.253	6.244	6.265	VV	214	1907	0.06%	0.003%
172	6.287	6.265	6.327	VV	1251	17965	0.60%	0.027%
173	6.331	6.327	6.347	VV	260	2794	0.09%	0.004%
174	6.349	6.347	6.354	VV	254	916	0.03%	0.001%
175	6.370	6.354	6.427	VV	879	14632	0.49%	0.022%
176	6.441	6.427	6.448	VV	275	2710	0.09%	0.004%
177	6.463	6.448	6.482	VV	432	6273	0.21%	0.009%
178	6.491	6.482	6.522	VV	341	6127	0.21%	0.009%
179	6.524	6.522	6.535	VV	226	1644	0.06%	0.002%
180	6.544	6.535	6.549	VV	299	2156	0.07%	0.003%
181	6.553	6.549	6.565	VV	317	2341	0.08%	0.003%
182	6.586	6.565	6.604	VV	1543	19052	0.64%	0.028%
183	6.608	6.604	6.625	VV	423	3784	0.13%	0.006%
184	6.638	6.625	6.663	VV	280	4841	0.16%	0.007%
185	6.670	6.663	6.709	VV	233	4184	0.14%	0.006%
186	6.750	6.709	6.805	VV	281430	2849710	95.68%	4.206%
187	6.825	6.805	6.866	VV	4498	48339	1.62%	0.071%
188	6.880	6.866	6.889	VV	269	2873	0.10%	0.004%
189	6.902	6.889	6.944	VV	395	7460	0.25%	0.011%
190	6.950	6.944	6.968	VV	148	1589	0.05%	0.002%
191	6.979	6.968	6.998	VV	154	1880	0.06%	0.003%
192	7.030	6.998	7.060	VV	349	6220	0.21%	0.009%
193	7.088	7.060	7.105	VV	159	3064	0.10%	0.005%
194	7.113	7.105	7.119	VV	149	898	0.03%	0.001%

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195	7.130	7.119	7.149	VV	199	2537	0.09%	0.004%
196	7.156	7.149	7.172	VV	164	1362		
197	7.227	7.172	7.263	PV	774	18494		
198	7.283	7.263	7.311	VV	326	6649		
199	7.325	7.311	7.350	VV	376	5462		
200	7.378	7.350	7.402	VV	254	5289		
201	7.425	7.402	7.452	VV	1082	14128	0.47%	0.021%
202	7.472	7.452	7.502	VV	375	6104	0.20%	0.009%
203	7.506	7.502	7.512	VV	61	253	0.01%	0.000%
204	7.531	7.512	7.544	VV	164	2078	0.07%	0.003%
205	7.565	7.544	7.591	VV	368	5591	0.19%	0.008%
206	7.595	7.591	7.616	VV	160	1321	0.04%	0.002%
207	7.621	7.616	7.625	VV	79	306	0.01%	0.000%
208	7.654	7.625	7.675	VV	176	3582	0.12%	0.005%
209	7.696	7.675	7.733	VV	1107	13539	0.45%	0.020%
210	7.740	7.733	7.744	VV	66	304	0.01%	0.000%
211	7.763	7.744	7.798	VV	377	5427	0.18%	0.008%
212	7.814	7.798	7.853	VV	453	7014	0.24%	0.010%
213	7.869	7.853	7.894	VV	180	2238	0.08%	0.003%
214	7.918	7.894	7.943	PV	474	5054	0.17%	0.007%
215	7.947	7.943	7.950	VV	54	176	0.01%	0.000%
216	7.987	7.950	8.008	VV	613	7980	0.27%	0.012%
217	8.014	8.008	8.024	VV	111	796	0.03%	0.001%
218	8.043	8.024	8.064	VV	352	4285	0.14%	0.006%
219	8.072	8.064	8.088	VV	160	1473	0.05%	0.002%
220	8.092	8.088	8.096	VV	80	282	0.01%	0.000%
221	8.123	8.096	8.142	VV	545	10067	0.34%	0.015%
222	8.156	8.142	8.176	VV	791	9134	0.31%	0.013%
223	8.183	8.176	8.213	VV	324	3997	0.13%	0.006%
224	8.230	8.213	8.247	VV	316	2796	0.09%	0.004%
225	8.272	8.247	8.294	PV	1050	11785	0.40%	0.017%
226	8.304	8.294	8.308	VV	266	1766	0.06%	0.003%
227	8.330	8.308	8.371	VV	1125	16297	0.55%	0.024%
228	8.375	8.371	8.380	VV	124	541	0.02%	0.001%
229	8.401	8.380	8.425	VV	528	6859	0.23%	0.010%
230	8.431	8.425	8.435	VV	130	711	0.02%	0.001%
231	8.472	8.435	8.499	VV	744	13709	0.46%	0.020%
232	8.504	8.499	8.516	VV	224	1897	0.06%	0.003%
233	8.525	8.516	8.531	VV	215	1837	0.06%	0.003%
234	8.582	8.531	8.615	VV	262835	2831133	95.06%	4.178%
235	8.634	8.615	8.652	VV	401	5905	0.20%	0.009%
236	8.662	8.652	8.667	VV	206	1458	0.05%	0.002%
237	8.684	8.667	8.701	VV	311	4726	0.16%	0.007%
238	8.708	8.701	8.712	VV	231	1381	0.05%	0.002%
239	8.721	8.712	8.727	VV	266	2183	0.07%	0.003%
240	8.744	8.727	8.756	VV	399	5352	0.18%	0.008%
241	8.767	8.756	8.783	VV	302	3986	0.13%	0.006%
242	8.810	8.783	8.836	VV	474	8213	0.28%	0.012%
243	8.847	8.836	8.860	VV	315	3548	0.12%	0.005%
244	8.875	8.860	8.903	VV	528	8066	0.27%	0.012%
245	8.911	8.903	8.915	VV	241	1532	0.05%	0.002%
246	8.945	8.915	8.973	VV	569	11704	0.39%	0.017%

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247	8.978	8.973	8.990	VV	478	3191	0.11%	0.005%
248	8.996	8.990	9.000	VV	348	1751		
249	9.014	9.000	9.025	VV	324	4399		
250	9.052	9.025	9.071	VV	911	14767		
251	9.080	9.071	9.097	VV	389	4951		
252	9.121	9.097	9.155	VV	1069	18372		
253	9.178	9.155	9.192	VV	404	6247	0.21%	0.009%
254	9.205	9.192	9.226	VV	374	5269	0.18%	0.008%
255	9.235	9.226	9.244	VV	233	2136	0.07%	0.003%
256	9.270	9.244	9.292	VV	269	6101	0.20%	0.009%
257	9.323	9.292	9.367	VV	690	16871	0.57%	0.025%
258	9.375	9.367	9.381	VV	252	1747	0.06%	0.003%
259	9.409	9.381	9.435	VV	2106	27836	0.93%	0.041%
260	9.438	9.435	9.471	VV	272	4404	0.15%	0.006%
261	9.499	9.471	9.514	VV	297	4408	0.15%	0.007%
262	9.520	9.514	9.524	VV	86	331	0.01%	0.000%
263	9.547	9.524	9.571	VV	169	3035	0.10%	0.004%
264	9.575	9.571	9.583	VV	86	512	0.02%	0.001%
265	9.606	9.583	9.622	PV	261	4304	0.14%	0.006%
266	9.625	9.622	9.642	VV	210	2158	0.07%	0.003%
267	9.649	9.642	9.666	VV	159	1562	0.05%	0.002%
268	9.675	9.666	9.686	VV	119	1208	0.04%	0.002%
269	9.691	9.686	9.702	VV	180	1458	0.05%	0.002%
270	9.731	9.702	9.759	VV	3459	41917	1.41%	0.062%
271	9.788	9.759	9.820	VV	839	18569	0.62%	0.027%
272	9.830	9.820	9.846	VV	407	4930	0.17%	0.007%
273	9.865	9.846	9.905	VV	436	9738	0.33%	0.014%
274	9.922	9.905	9.938	VV	360	5250	0.18%	0.008%
275	9.971	9.938	9.997	VV	1304	18331	0.62%	0.027%
276	10.056	9.997	10.090	VV	72641	746727	25.07%	1.102%
277	10.126	10.090	10.155	VV	686	15573	0.52%	0.023%
278	10.193	10.155	10.238	VV	266777	2894614	97.19%	4.272%
279	10.258	10.238	10.282	VV	283	5987	0.20%	0.009%
280	10.293	10.282	10.319	VV	500	5783	0.19%	0.009%
281	10.325	10.319	10.337	VV	113	886	0.03%	0.001%
282	10.364	10.337	10.384	PV	161	2683	0.09%	0.004%
283	10.389	10.384	10.394	VV	119	486	0.02%	0.001%
284	10.408	10.394	10.417	VV	94	783	0.03%	0.001%
285	10.429	10.417	10.436	PV	113	525	0.02%	0.001%
286	10.447	10.436	10.466	VV	92	1197	0.04%	0.002%
287	10.493	10.466	10.502	VV	209	2799	0.09%	0.004%
288	10.533	10.502	10.558	VV	729	11204	0.38%	0.017%
289	10.582	10.558	10.602	VV	946	13908	0.47%	0.021%
290	10.629	10.602	10.651	VV	462	8442	0.28%	0.012%
291	10.672	10.651	10.698	VV	273	4851	0.16%	0.007%
292	10.733	10.698	10.747	VV	353	6871	0.23%	0.010%
293	10.750	10.747	10.767	VV	258	2042	0.07%	0.003%
294	10.815	10.767	10.854	VV	746	16812	0.56%	0.025%
295	10.860	10.854	10.864	VV	275	1481	0.05%	0.002%
296	10.886	10.864	10.901	VV	673	9451	0.32%	0.014%
297	10.932	10.901	10.978	VV	1717	28714	0.96%	0.042%
298	11.006	10.978	11.043	VV	1305	24293	0.82%	0.036%
299	11.048	11.043	11.054	VV	362	2107	0.07%	0.003%

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300	11.063	11.054	11.116	VV	438	6975	0.23%	0.010%
301	11.132	11.116	11.137	PV	91	698		
302	11.149	11.137	11.157	VV	157	1311		
303	11.184	11.157	11.188	VV	965	9405		
304	11.204	11.188	11.236	VV	2587	34342		
305	11.256	11.236	11.285	VV	624	10102		
306	11.308	11.285	11.317	VV	408	5606	0.19%	0.008%
307	11.327	11.317	11.348	VV	363	5155	0.17%	0.008%
308	11.359	11.348	11.376	VV	277	3310	0.11%	0.005%
309	11.385	11.376	11.429	VV	239	4090	0.14%	0.006%
310	11.449	11.429	11.458	VV	250	3112	0.10%	0.005%
311	11.466	11.458	11.481	VV	213	2004	0.07%	0.003%
312	11.497	11.481	11.518	VV	235	3060	0.10%	0.005%
313	11.524	11.518	11.528	VV	72	257	0.01%	0.000%
314	11.543	11.528	11.555	VV	141	1673	0.06%	0.002%
315	11.570	11.555	11.578	VV	274	2733	0.09%	0.004%
316	11.584	11.578	11.588	VV	329	1686	0.06%	0.002%
317	11.639	11.588	11.678	VV	250659	2978400	100.00%	4.396%
318	11.684	11.678	11.690	VV	149	954	0.03%	0.001%
319	11.720	11.690	11.768	VV	1333	30586	1.03%	0.045%
320	11.775	11.768	11.779	VV	183	785	0.03%	0.001%
321	11.794	11.779	11.815	VV	349	4971	0.17%	0.007%
322	11.831	11.815	11.852	VV	395	4613	0.15%	0.007%
323	11.893	11.852	11.938	PV	2610	40347	1.35%	0.060%
324	11.951	11.938	11.971	VV	406	5794	0.19%	0.009%
325	11.989	11.971	12.007	VV	331	4592	0.15%	0.007%
326	12.030	12.007	12.036	VV	384	4908	0.16%	0.007%
327	12.055	12.036	12.080	VV	808	12958	0.44%	0.019%
328	12.085	12.080	12.093	VV	282	1871	0.06%	0.003%
329	12.122	12.093	12.151	VV	755	15240	0.51%	0.022%
330	12.162	12.151	12.183	VV	318	4046	0.14%	0.006%
331	12.188	12.183	12.199	VV	139	948	0.03%	0.001%
332	12.203	12.199	12.216	VV	112	795	0.03%	0.001%
333	12.221	12.216	12.226	VV	86	343	0.01%	0.001%
334	12.238	12.226	12.245	VV	172	1414	0.05%	0.002%
335	12.254	12.245	12.267	VV	186	2135	0.07%	0.003%
336	12.308	12.267	12.347	VV	1700	33915	1.14%	0.050%
337	12.359	12.347	12.376	VV	385	5590	0.19%	0.008%
338	12.399	12.376	12.439	VV	2654	40252	1.35%	0.059%
339	12.462	12.439	12.481	VV	346	5493	0.18%	0.008%
340	12.486	12.481	12.490	PV	76	214	0.01%	0.000%
341	12.564	12.490	12.629	VV	157744	2069779	69.49%	3.055%
342	12.638	12.629	12.659	VV	1746	27448	0.92%	0.041%
343	12.664	12.659	12.707	VV	1344	27457	0.92%	0.041%
344	12.721	12.707	12.751	VV	838	18022	0.61%	0.027%
345	12.762	12.751	12.766	VV	628	4592	0.15%	0.007%
346	12.774	12.766	12.792	VV	631	8158	0.27%	0.012%
347	12.799	12.792	12.821	VV	414	5985	0.20%	0.009%
348	12.830	12.821	12.850	VV	426	5693	0.19%	0.008%
349	12.886	12.850	12.908	VV	812	18142	0.61%	0.027%
350	12.952	12.908	12.984	VV	246490	2907459	97.62%	4.291%
351	13.007	12.984	13.052	VV	2389	48185	1.62%	0.071%

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					rteres			
352	13.056	13.052	13.059	VV	349	1439	0.05%	0.002%
353	13.067	13.059	13.092	VV	396	5406		
354	13.101	13.092	13.107	VV	218	1647		
355	13.111	13.107	13.126	VV	178	1618		
356	13.138	13.126	13.156	VV	141	1606		
357	13.190	13.156	13.235	PV	2087	41979		
358	13.237	13.235	13.262	VV	416	4363	0.15%	0.006%
359	13.267	13.262	13.282	VV	221	1967	0.07%	0.003%
360	13.305	13.282	13.326	VV	2063	23617	0.79%	0.035%
361	13.347	13.326	13.389	VV	1265	23592	0.79%	0.035%
362	13.395	13.389	13.415	VV	314	3552	0.12%	0.005%
363	13.420	13.415	13.433	VV	207	1813	0.06%	0.003%
364	13.446	13.433	13.461	VV	205	2929	0.10%	0.004%
365	13.482	13.461	13.486	VV	217	2489	0.08%	0.004%
366	13.509	13.486	13.526	VV	386	5518	0.19%	0.008%
367	13.576	13.526	13.607	PV	9075	146916	4.93%	0.217%
368	13.630	13.607	13.697	VV	4743	109641	3.68%	0.162%
369	13.712	13.697	13.726	VV	698	10412	0.35%	0.015%
370	13.730	13.726	13.742	VV	501	4341	0.15%	0.006%
371	13.791	13.742	13.872	VV	48696	656084	22.03%	0.968%
372	13.891	13.872	13.922	VV	942	20730	0.70%	0.031%
373	13.941	13.922	13.951	VV	480	6816	0.23%	0.010%
374	13.970	13.951	13.978	VV	682	9843	0.33%	0.015%
375	13.995	13.978	14.028	VV	1059	18356	0.62%	0.027%
376	14.045	14.028	14.053	VV	307	3902	0.13%	0.006%
377	14.102	14.053	14.119	VV	2132	36728	1.23%	0.054%
378	14.152	14.119	14.194	VV	233833	2864678	96.18%	4.228%
379	14.211	14.194	14.226	VV	410	5121	0.17%	0.008%
380	14.247	14.226	14.261	VV	230	3402	0.11%	0.005%
381	14.285	14.261	14.320	VV	338	8161	0.27%	0.012%
382	14.324	14.320	14.327	VV	102	376	0.01%	0.001%
383	14.343	14.327	14.350	VV	149	1713	0.06%	0.003%
384	14.373	14.350	14.377	VV	469	5086	0.17%	0.008%
385	14.382	14.377	14.413	VV	484	6969	0.23%	0.010%
386	14.426	14.413	14.436	VV	139	1814	0.06%	0.003%
387	14.447	14.436	14.457	VV	227	1720	0.06%	0.003%
388	14.460	14.457	14.465	VV	108	361	0.01%	0.001%
389	14.484	14.465	14.489	PV	123	863	0.03%	0.001%
390	14.514	14.489	14.518	VV	494	4910	0.16%	0.007%
391	14.542	14.518	14.592	VV	2355	46117	1.55%	0.068%
392	14.617	14.592	14.646	VV	580	14557	0.49%	0.021%
393	14.665	14.646	14.688	VV	501	7897	0.27%	0.012%
394	14.716	14.688	14.750	VV	5444	80032	2.69%	0.118%
395	14.771	14.750	14.797	VV	2707	41324	1.39%	0.061%
396	14.812	14.797	14.849	VV	921	17151	0.58%	0.025%
397	14.872	14.849	14.891	VV	476	7417	0.25%	0.011%
398	14.935	14.891	14.971	PV	2420	39015	1.31%	0.058%
399	14.979	14.971	14.989	VV	441	4082	0.14%	0.006%
400	14.994	14.989	15.016	VV	375	3925	0.13%	0.006%
401	15.051	15.016	15.087	VV	104307	1443125	48.45%	2.130%
402	15.102	15.087	15.126	VV	954	16362	0.55%	0.024%
403	15.133	15.126	15.144	VV	274	2587	0.09%	0.004%
404	15.148	15.144	15.157	VV	236	1547	0.05%	0.002%

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					rteres			
405	15.183	15.157	15.200	VV	1120	15047	0.51%	0.022%
406	15.258	15.200	15.290	VV	216584	2876032	9[illegible]	
407	15.302	15.290	15.328	VV	716	10299	[illegible]	
408	15.348	15.328	15.357	VV	303	3867	[illegible]	
409	15.379	15.357	15.387	VV	301	3886	[illegible]	
410	15.392	15.387	15.412	VV	263	2093	[illegible]	
411	15.422	15.412	15.427	PV	169	941	0.03%	0.001%
412	15.454	15.427	15.462	VV	347	4533	0.15%	0.007%
413	15.492	15.462	15.500	VV	316	5990	0.20%	0.009%
414	15.510	15.500	15.515	VV	232	1695	0.06%	0.003%
415	15.523	15.515	15.530	VV	259	1461	0.05%	0.002%
416	15.535	15.530	15.546	VV	94	634	0.02%	0.001%
417	15.569	15.546	15.578	VV	249	2354	0.08%	0.003%
418	15.587	15.578	15.592	VV	343	2001	0.07%	0.003%
419	15.596	15.592	15.602	VV	274	1390	0.05%	0.002%
420	15.633	15.602	15.723	VV	54654	841979	28.27%	1.243%
421	15.734	15.723	15.745	VV	476	5348	0.18%	0.008%
422	15.777	15.745	15.810	VV	7003	111640	3.75%	0.165%
423	15.823	15.810	15.828	VV	1316	13039	0.44%	0.019%
424	15.852	15.828	15.881	VV	3978	60800	2.04%	0.090%
425	15.906	15.881	15.937	VV	709	13278	0.45%	0.020%
426	15.960	15.937	15.965	PV	211	1813	0.06%	0.003%
427	15.992	15.965	16.017	VV	2017	33026	1.11%	0.049%
428	16.021	16.017	16.059	VV	711	11401	0.38%	0.017%
429	16.075	16.059	16.081	VV	355	3812	0.13%	0.006%
430	16.101	16.081	16.118	VV	544	8104	0.27%	0.012%
431	16.153	16.118	16.196	VV	1779	34636	1.16%	0.051%
432	16.200	16.196	16.210	VV	310	2080	0.07%	0.003%
433	16.214	16.210	16.227	VV	237	1742	0.06%	0.003%
434	16.280	16.227	16.325	VV	207307	2795526	93.86%	4.126%
435	16.341	16.325	16.356	VV	356	4760	0.16%	0.007%
436	16.377	16.356	16.388	VV	230	3473	0.12%	0.005%
437	16.395	16.388	16.401	PV	178	707	0.02%	0.001%
438	16.413	16.401	16.417	PV	97	480	0.02%	0.001%
439	16.422	16.417	16.427	VV	168	574	0.02%	0.001%
440	16.470	16.427	16.486	VV	784	13576	0.46%	0.020%
441	16.491	16.486	16.499	VV	410	3005	0.10%	0.004%
442	16.503	16.499	16.507	VV	330	1616	0.05%	0.002%
443	16.520	16.507	16.527	VV	445	4183	0.14%	0.006%
444	16.531	16.527	16.541	VV	351	2301	0.08%	0.003%
445	16.579	16.541	16.622	VV	1649	41042	1.38%	0.061%
446	16.650	16.622	16.680	VV	5331	104226	3.50%	0.154%
447	16.695	16.680	16.716	VV	2613	37703	1.27%	0.056%
448	16.762	16.716	16.797	VV	7575	130727	4.39%	0.193%
449	16.842	16.797	16.866	PV	1241	20197	0.68%	0.030%
450	16.872	16.866	16.877	VV	440	2567	0.09%	0.004%
451	16.900	16.877	16.904	VV	516	6875	0.23%	0.010%
452	16.908	16.904	16.913	VV	398	1958	0.07%	0.003%
453	16.917	16.913	16.926	VV	404	2858	0.10%	0.004%
454	16.928	16.926	16.949	VV	367	2943	0.10%	0.004%
455	16.977	16.949	16.991	VV	375	7279	0.24%	0.011%
456	17.023	16.991	17.046	VV	1633	34781	1.17%	0.051%

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457	17.065	17.046	17.094	VV	1700	32787	1.10%	0.048%
458	17.119	17.094	17.162	VV	1691	31973	1	
459	17.231	17.162	17.264	VV	198960	2736453	91	
460	17.281	17.264	17.306	VV	3737	55040	1	
461	17.308	17.306	17.347	VV	902	8707	0	
462	17.363	17.347	17.372	VV	203	1727	0	
463	17.374	17.372	17.381	VV	127	384	0.01%	0.001%
464	17.406	17.381	17.410	PV	176	1257	0.04%	0.002%
465	17.440	17.410	17.444	VV	509	7618	0.26%	0.011%
466	17.450	17.444	17.458	VV	470	3381	0.11%	0.005%
467	17.481	17.458	17.504	VV	905	15686	0.53%	0.023%
468	17.519	17.504	17.528	VV	536	5189	0.17%	0.008%
469	17.596	17.528	17.636	VV	3018	89831	3.02%	0.133%
470	17.679	17.636	17.742	VV	7586	140021	4.70%	0.207%
471	17.762	17.742	17.780	VV	737	10388	0.35%	0.015%
472	17.798	17.780	17.816	VV	1050	15041	0.50%	0.022%
473	17.821	17.816	17.828	VV	259	1695	0.06%	0.003%
474	17.858	17.828	17.871	VV	653	10063	0.34%	0.015%
475	17.876	17.871	17.881	VV	274	1395	0.05%	0.002%
476	17.920	17.881	17.937	VV	318	8158	0.27%	0.012%
477	17.968	17.937	17.982	PV	762	15879	0.53%	0.023%
478	18.010	17.982	18.022	VV	1275	21136	0.71%	0.031%
479	18.074	18.022	18.085	VV	3420	69797	2.34%	0.103%
480	18.120	18.085	18.155	VV	188799	2601790	87.36%	3.840%
481	18.206	18.155	18.228	VV	2417	62549	2.10%	0.092%
482	18.268	18.228	18.323	VV	3973	114547	3.85%	0.169%
483	18.347	18.323	18.379	VV	2136	45593	1.53%	0.067%
484	18.401	18.379	18.411	VV	1198	18223	0.61%	0.027%
485	18.474	18.411	18.520	VV	29512	631740	21.21%	0.932%
486	18.541	18.520	18.574	VV	8088	147243	4.94%	0.217%
487	18.580	18.574	18.594	VV	1558	15771	0.53%	0.023%
488	18.636	18.594	18.661	VV	5629	120429	4.04%	0.178%
489	18.667	18.661	18.696	VV	2224	36763	1.23%	0.054%
490	18.707	18.696	18.722	VV	1457	20762	0.70%	0.031%
491	18.745	18.722	18.778	VV	2536	55900	1.88%	0.082%
492	18.803	18.778	18.813	VV	1690	28382	0.95%	0.042%
493	18.838	18.813	18.852	VV	1649	36074	1.21%	0.053%
494	18.861	18.852	18.866	VV	1647	12024	0.40%	0.018%
495	18.900	18.866	18.907	VV	2663	51357	1.72%	0.076%
496	18.952	18.907	19.001	VV	153305	2254760	75.70%	3.328%
497	19.061	19.001	19.090	VV	6752	220064	7.39%	0.325%
498	19.105	19.090	19.139	VV	4644	104459	3.51%	0.154%
499	19.144	19.139	19.150	VV	2616	15818	0.53%	0.023%
500	19.164	19.150	19.170	VV	2613	31188	1.05%	0.046%
501	19.183	19.170	19.187	VV	2668	25434	0.85%	0.038%
502	19.203	19.187	19.224	VV	3166	63261	2.12%	0.093%
503	19.232	19.224	19.243	VV	3007	32229	1.08%	0.048%
504	19.304	19.243	19.335	VV	25434	570617	19.16%	0.842%
505	19.351	19.335	19.380	VV	10181	231562	7.77%	0.342%
506	19.386	19.380	19.396	VV	6062	55981	1.88%	0.083%
507	19.402	19.396	19.407	VV	5744	37841	1.27%	0.056%
508	19.417	19.407	19.440	VV	6481	113807	3.82%	0.168%
509	19.457	19.440	19.465	VV	5698	80055	2.69%	0.118%

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510	19.488	19.465	19.520	VV	7035	198767	6.67%	0.293%
511	19.547	19.520	19.580	VV	7762	218773		
512	19.587	19.580	19.596	VV	5456	53758		
513	19.605	19.596	19.627	VV	5487	94830		
514	19.644	19.627	19.661	VV	5887	111075		
515	19.672	19.661	19.678	VV	5570	54184		
516	19.684	19.678	19.690	VV	5584	37382	1.26%	0.055%
517	19.737	19.690	19.783	VV	103282	1744174	58.56%	2.574%
518	19.798	19.783	19.808	VV	7569	108762	3.65%	0.161%
519	19.839	19.808	19.880	VV	9115	334066	11.22%	0.493%
520	19.904	19.880	19.929	VV	8458	221729	7.44%	0.327%
521	19.934	19.929	19.947	VV	6858	70852	2.38%	0.105%
522	19.969	19.947	19.990	VV	7958	191342	6.42%	0.282%
523	20.014	19.990	20.030	VV	8373	186246	6.25%	0.275%
524	20.037	20.030	20.058	VV	7880	128820	4.33%	0.190%
525	20.098	20.058	20.135	VV	14438	536177	18.00%	0.791%
526	20.145	20.135	20.173	VV	10051	220915	7.42%	0.326%
527	20.179	20.173	20.198	VV	9433	133775	4.49%	0.197%
528	20.204	20.198	20.206	VV	9000	43187	1.45%	0.064%
529	20.210	20.206	20.216	VV	9014	55910	1.88%	0.083%
530	20.250	20.216	20.256	VV	10101	226323	7.60%	0.334%
531	20.274	20.256	20.295	VV	10800	241274	8.10%	0.356%
532	20.328	20.295	20.338	VV	12338	290595	9.76%	0.429%
533	20.359	20.338	20.378	VV	14156	311594	10.46%	0.460%
534	20.384	20.378	20.410	VV	12253	229240	7.70%	0.338%
535	20.415	20.410	20.419	VV	11821	63073	2.12%	0.093%
536	20.476	20.419	20.514	VV	76316	1720018	57.75%	2.538%
537	20.553	20.514	20.567	VV	14454	448576	15.06%	0.662%
538	20.583	20.567	20.591	VV	14465	198447	6.66%	0.293%
539	20.635	20.591	20.668	VV	25679	838458	28.15%	1.237%
540	20.703	20.668	20.713	VV	17772	461224	15.49%	0.681%
541	20.732	20.713	20.770	VV	18800	592223	19.88%	0.874%
542	20.788	20.770	20.801	VV	16000	292396	9.82%	0.432%
543	20.829	20.801	20.867	VV	16888	611892	20.54%	0.903%
544	20.892	20.867	20.911	VV	14251	366424	12.30%	0.541%
545	20.955	20.911	21.007	VV	14816	817601	27.45%	1.207%
546	21.013	21.007	21.018	VV	13062	82220	2.76%	0.121%
547	21.025	21.018	21.041	VV	12738	173500	5.83%	0.256%
548	21.046	21.041	21.055	VV	12541	102270	3.43%	0.151%
549	21.109	21.055	21.117	VV	12608	465705	15.64%	0.687%
550	21.121	21.117	21.129	VV	12369	90772	3.05%	0.134%
551	21.145	21.129	21.163	VV	12425	242613	8.15%	0.358%
552	21.169	21.163	21.177	VV	11984	101940	3.42%	0.150%
553	21.225	21.177	21.271	VV	53847	1451891	48.75%	2.143%
554	21.283	21.271	21.301	VV	10623	187041	6.28%	0.276%
555	21.332	21.301	21.343	VV	10929	261162	8.77%	0.385%
556	21.349	21.343	21.356	VV	10556	80861	2.71%	0.119%
557	21.363	21.356	21.368	VV	10457	77270	2.59%	0.114%
558	21.372	21.368	21.390	VV	10412	133738	4.49%	0.197%
559	21.397	21.390	21.453	VV	9862	328459	11.03%	0.485%
560	21.457	21.453	21.483	VV	7843	134502	4.52%	0.198%
561	21.499	21.483	21.504	VV	7719	90804	3.05%	0.134%

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562	21.531	21.504	21.538	VV	7826	157468	5.29%	0.232%
563	21.543	21.538	21.550	VV	7752	53568	1	
564	21.575	21.550	21.584	VV	8616	168858	5	
565	21.591	21.584	21.608	VV	8556	117953	3	
566	21.657	21.608	21.719	VV	9256	520587	17	
567	21.724	21.719	21.730	VV	5222	31489	1	
568	21.734	21.730	21.744	VV	5160	42876	1.44%	0.063%
569	21.747	21.744	21.753	VV	4986	27049	0.91%	0.040%
570	21.773	21.753	21.791	VV	5133	112424	3.77%	0.166%
571	21.798	21.791	21.817	VV	4830	72640	2.44%	0.107%
572	21.831	21.817	21.840	VV	4634	60137	2.02%	0.089%
573	21.870	21.840	21.876	VV	4897	102528	3.44%	0.151%
574	21.882	21.876	21.891	VV	4856	43306	1.45%	0.064%
575	21.906	21.891	21.914	VV	4658	59725	2.01%	0.088%
576	21.918	21.914	21.935	VV	4255	50877	1.71%	0.075%
577	21.941	21.935	21.956	VV	3739	44958	1.51%	0.066%
578	21.968	21.956	21.976	VV	3339	36237	1.22%	0.053%
579	21.991	21.976	21.997	VV	3403	42535	1.43%	0.063%
580	22.035	21.997	22.050	VV	3824	111498	3.74%	0.165%
581	22.057	22.050	22.071	VV	3475	41097	1.38%	0.061%
582	22.088	22.071	22.110	VV	3171	68503	2.30%	0.101%
583	22.169	22.110	22.228	VV	35325	949093	31.87%	1.401%
584	22.240	22.228	22.267	VV	1716	33284	1.12%	0.049%
585	22.272	22.267	22.297	VV	1052	9580	0.32%	0.014%

Sum of corrected areas: 67760187

FG102124.M Mon Nov 04 03:07:01 2024

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
I.BLK		FG014617.D	FG110124	TETRACOSANE-d50 (SURROGA	Ankita	11/4/2024 2:13:08 PM	Peak Integrated by Software incorrectly
50 PPM TRPH STD		FG014618.D	FG110124	N-TETRATRIACONTANE	Ankita	11/4/2024 2:13:10 PM	Peak Integrated by Software incorrectly
50 PPM TRPH STD		FG014618.D	FG110124	TETRACOSANE-d50 (SURROGA	Ankita	11/4/2024 2:13:10 PM	Peak Integrated by Software incorrectly
P4663-08		FG014624.D	FG110124	TETRACOSANE-d50 (SURROGA	Ankita	11/4/2024 2:13:12 PM	Peak Integrated by Software incorrectly
I.BLK		FG014625.D	FG110124	TETRACOSANE-d50 (SURROGA	Ankita	11/4/2024 2:13:13 PM	Peak Integrated by Software incorrectly
50 PPM TRPH STD		FG014626.D	FG110124	TETRACOSANE-d50 (SURROGA	Ankita	11/4/2024 2:13:15 PM	Peak Integrated by Software incorrectly
PB164602BS		FG014628.D	FG110124	N-DOTRIACONTANE	Ankita	11/4/2024 2:13:16 PM	Peak Integrated by Software incorrectly
PB164602BS		FG014628.D	FG110124	N-HEXACOSANE	Ankita	11/4/2024 2:13:16 PM	Peak Integrated by Software incorrectly
PB164602BS		FG014628.D	FG110124	N-HEXATRIACONTANE	Ankita	11/4/2024 2:13:16 PM	Peak Integrated by Software incorrectly
PB164602BS		FG014628.D	FG110124	N-OCTACOSANE	Ankita	11/4/2024 2:13:16 PM	Peak Integrated by Software incorrectly
PB164602BS		FG014628.D	FG110124	N-TRIACONTANE	Ankita	11/4/2024 2:13:16 PM	Peak Integrated by Software incorrectly
P4663-08MS		FG014629.D	FG110124	N-HEXATRIACONTANE	Ankita	11/4/2024 2:13:18 PM	Peak Integrated by Software incorrectly
P4663-08MS		FG014629.D	FG110124	N-OCTACOSANE	Ankita	11/4/2024 2:13:18 PM	Peak Integrated by Software incorrectly
P4663-08MSD		FG014630.D	FG110124	N-HEXATRIACONTANE	Ankita	11/4/2024 2:13:19 PM	Peak Integrated by Software incorrectly
50 PPM TRPH STD		FG014632.D	FG110124	TETRACOSANE-d50 (SURROGA	Ankita	11/4/2024 2:13:21 PM	Peak Integrated by Software incorrectly

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

Instrument ID: FID_G

Daily Analysis Runlog For Sequence/QCBatch ID # FG102124

Review By	yogesh	Review On	10/21/2024 1:42:42 PM		
Supervise By	Ankita	Supervise On	10/22/2024 8:58:41 AM		
SubDirectory	FG102124	HP Acquire Method		HP Processing Method	FG102124

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23611,PP23613,PP23614,PP23615,PP23616
CCC	PP23613
Internal Standard/PEM	
ICV/I.BLK	PP23612,PP23617
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	MECL2	FG014451.D	21 Oct 2024 13:52	YP\AJ	Ok
2	I.BLK	FG014452.D	21 Oct 2024 14:21	YP\AJ	Ok
3	100 TRPH STD	FG014453.D	21 Oct 2024 14:50	YP\AJ	Ok
4	50 TRPH STD	FG014454.D	21 Oct 2024 15:19	YP\AJ	Ok
5	20 TRPH STD	FG014455.D	21 Oct 2024 15:48	YP\AJ	Ok
6	10 TRPH STD	FG014456.D	21 Oct 2024 16:17	YP\AJ	Ok
7	5 TRPH STD	FG014457.D	21 Oct 2024 16:46	YP\AJ	Ok
8	FG102124ICV	FG014458.D	21 Oct 2024 17:15	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 # FG110124

Review By	yogesh	Review On	11/1/2024 3:34:30 PM		
Supervise By	Ankita	Supervise On	11/4/2024 2:13:36 PM		
SubDirectory	FG110124	HP Acquire Method		HP Processing Method	FG102124

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23611,PP23613,PP23614,PP23615,PP23616
CCC	PP23613
Internal Standard/PEM	
ICV/I.BLK	PP23612,PP23617
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	MECL2	FG014616.D	01 Nov 2024 12:22	YP\AJ	Ok
2	I.BLK	FG014617.D	01 Nov 2024 12:50	YP\AJ	Ok,M
3	50 PPM TRPH STD	FG014618.D	01 Nov 2024 13:18	YP\AJ	Ok,M
4	RT MARKER	FG014619.D	01 Nov 2024 13:47	YP\AJ	Ok
5	PP23935	FG014620.D	01 Nov 2024 14:15	YP\AJ	Ok
6	P4663-02	FG014621.D	01 Nov 2024 14:43	YP\AJ	Ok
7	P4663-04	FG014622.D	01 Nov 2024 15:12	YP\AJ	Ok
8	P4663-06	FG014623.D	01 Nov 2024 15:40	YP\AJ	Ok
9	P4663-08	FG014624.D	01 Nov 2024 16:09	YP\AJ	Ok,M
10	I.BLK	FG014625.D	01 Nov 2024 16:37	YP\AJ	Ok,M
11	50 PPM TRPH STD	FG014626.D	01 Nov 2024 17:34	YP\AJ	Ok,M
12	PB164602BL	FG014627.D	01 Nov 2024 18:31	YP\AJ	Ok
13	PB164602BS	FG014628.D	01 Nov 2024 19:00	YP\AJ	Ok,M
14	P4663-08MS	FG014629.D	01 Nov 2024 19:28	YP\AJ	Ok,M
15	P4663-08MSD	FG014630.D	01 Nov 2024 19:56	YP\AJ	Ok,M
16	I.BLK	FG014631.D	01 Nov 2024 20:25	YP\AJ	Ok
17	50 PPM TRPH STD	FG014632.D	01 Nov 2024 21:22	YP\AJ	Ok,M

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 # FG102124

Review By	yogesh	Review On	10/21/2024 1:42:42 PM		
Supervise By	Ankita	Supervise On	10/22/2024 8:58:41 AM		
SubDirectory	FG102124	HP Acquire Method		HP Processing Method	FG102124

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23611,PP23613,PP23614,PP23615,PP23616
CCC	PP23613
Internal Standard/PEM	
ICV/I.BLK	PP23612,PP23617
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	MECL2		FG014451.D	21 Oct 2024 13:52		YP\AJ	Ok
2	I.BLK		FG014452.D	21 Oct 2024 14:21		YP\AJ	Ok
3	100 TRPH STD		FG014453.D	21 Oct 2024 14:50		YP\AJ	Ok
4	50 TRPH STD		FG014454.D	21 Oct 2024 15:19		YP\AJ	Ok
5	20 TRPH STD		FG014455.D	21 Oct 2024 15:48		YP\AJ	Ok
6	10 TRPH STD		FG014456.D	21 Oct 2024 16:17		YP\AJ	Ok
7	5 TRPH STD		FG014457.D	21 Oct 2024 16:46		YP\AJ	Ok
8	FG102124ICV		FG014458.D	21 Oct 2024 17:15		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 # FG110124

Review By	yogesh	Review On	11/1/2024 3:34:30 PM		
Supervise By	Ankita	Supervise On	11/4/2024 2:13:36 PM		
SubDirectory	FG110124	HP Acquire Method		HP Processing Method	FG102124

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23611,PP23613,PP23614,PP23615,PP23616
CCC	PP23613
Internal Standard/PEM	
ICV/I.BLK	PP23612,PP23617
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	MECL2		FG014616.D	01 Nov 2024 12:22		YP\AJ	Ok
2	I.BLK		FG014617.D	01 Nov 2024 12:50		YP\AJ	Ok,M
3	50 PPM TRPH STD		FG014618.D	01 Nov 2024 13:18		YP\AJ	Ok,M
4	RT MARKER		FG014619.D	01 Nov 2024 13:47		YP\AJ	Ok
5	PP23935		FG014620.D	01 Nov 2024 14:15		YP\AJ	Ok
6	P4663-02		FG014621.D	01 Nov 2024 14:43		YP\AJ	Ok
7	P4663-04		FG014622.D	01 Nov 2024 15:12		YP\AJ	Ok
8	P4663-06		FG014623.D	01 Nov 2024 15:40		YP\AJ	Ok
9	P4663-08		FG014624.D	01 Nov 2024 16:09		YP\AJ	Ok,M
10	I.BLK		FG014625.D	01 Nov 2024 16:37		YP\AJ	Ok,M
11	50 PPM TRPH STD		FG014626.D	01 Nov 2024 17:34		YP\AJ	Ok,M
12	PB164602BL		FG014627.D	01 Nov 2024 18:31		YP\AJ	Ok
13	PB164602BS		FG014628.D	01 Nov 2024 19:00		YP\AJ	Ok,M
14	P4663-08MS		FG014629.D	01 Nov 2024 19:28		YP\AJ	Ok,M
15	P4663-08MSD		FG014630.D	01 Nov 2024 19:56		YP\AJ	Ok,M
16	I.BLK		FG014631.D	01 Nov 2024 20:25		YP\AJ	Ok
17	50 PPM TRPH STD		FG014632.D	01 Nov 2024 21:22		YP\AJ	Ok,M

M : Manual Integration

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PB164602

SOP ID:	M3541-ASE Extraction-14				
Clean Up SOP #:	N/A			**Extraction Start Date :**	11/01/2024
Matrix :	Solid			**Extraction Start Time :**	11:35
Weigh By:	EH	**Extraction By:**	RS	**Extraction End Date :**	11/01/2024
Balance check:	RJ	**Filter By:**	RJ	**Extraction End Time :**	14:30
Balance ID:	EX-SC-2	**pH Meter ID:**	N/A	**Concentration By:**	EH
pH Strip Lot#:	N/A	**Hood ID:**	3,7	**Supervisor By :**	rajesh

Extraction Method: ☐ Seperatory Funnel ☐ Continious Liquid/Liquid ☐ Sonication ☐ Waste Dilution ☑ Soxhlet

Standared Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Surrogate	1.0ML	20 PPM	PP23518
Spike Sol 1	1.0ML	20 PPM	PP23454
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	EP2538
Baked Na2SO4	N/A	EP2551
Sand	N/A	E2865
Methylene Chloride	N/A	E3822
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

1.5 ML Vial lot# 2210673.

KD Bath ID:	N/A	**Envap ID:**	NEVAP-02
KD Bath Temperature:	N/A	**Envap Temperature:**	40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
11/01/24	RP (Set 1 cal)	T-P-pest-PCB
14:35	**Preparation Group**	**Analysis Group**

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PrepBatch ID : PB164602

Analytical Method: M3541-ASE Extraction-14 **Concentration Date:** 11/01/2024

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB164602BL	PB164602BL	TPH GC	30.01	N/A	ritesh	RUPESH	1			U5-1
PB164602BS	PB164602BS	TPH GC	30.03	N/A	ritesh	RUPESH	1			2
P4663-02	TENNANT-PAD-2-3-STOCKPILE	TPH GC	30.06	N/A	ritesh	RUPESH	1	D		3
P4663-04	RES-BUILDING-PAD-NO-11	TPH GC	30.09	N/A	ritesh	RUPESH	1	D		4
P4663-06	RES-BUILDING-PAD-NO-3	TPH GC	30.07	N/A	ritesh	RUPESH	1	D		5
P4663-08	RES-BUILDING-PAD-NO-2	TPH GC	30.03	N/A	ritesh	RUPESH	1	D		6
P4663-08MS	RES-BUILDING-PAD-NO-2 MS	TPH GC	30.08	N/A	ritesh	RUPESH	1	D		U6-1
P4663-08MSD	RES-BUILDING-PAD-NO-2 MSD	TPH GC	30.10	N/A	ritesh	RUPESH	1	D		2

* **Extracts relinquished on the same date as received.**

11/01/24

164602
STRH 11:35

WORKLIST(Hardcopy Internal Chain)

WorkList Name : P4663T **WorkList ID :** 185023 **Department :** Extraction **Date :** 11-01-2024 11:33:22

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4663-02	TENNANT-PAD-2-3-STOCKPIL	Solid	EPH_NF	Cool 4 deg C	UNIO02	K41	10/31/2024	NJEPH
P4663-02	TENNANT-PAD-2-3-STOCKPIL	Solid	TPH GC	Cool 4 deg C	UNIO02	K41	10/31/2024	8015D
P4663-04	RES-BUILDING-PAD-NO-11	Solid	EPH_NF	Cool 4 deg C	UNIO02	K41	10/31/2024	NJEPH
P4663-04	RES-BUILDING-PAD-NO-11	Solid	TPH GC	Cool 4 deg C	UNIO02	K41	10/31/2024	8015D
P4663-06	RES-BUILDING-PAD-NO-3	Solid	EPH_NF	Cool 4 deg C	UNIO02	K41	10/31/2024	NJEPH
P4663-06	RES-BUILDING-PAD-NO-3	Solid	TPH GC	Cool 4 deg C	UNIO02	K41	10/31/2024	8015D
P4663-08	RES-BUILDING-PAD-NO-2	Solid	EPH_NF	Cool 4 deg C	UNIO02	K41	10/31/2024	NJEPH
P4663-08	RES-BUILDING-PAD-NO-2	Solid	TPH GC	Cool 4 deg C	UNIO02	K41	10/31/2024	8015D

683 of 995

Date/Time 11/01/24 11:33
Raw Sample Received by: RJ (Ent Corp)
Raw Sample Relinquished by: RM SM

Date/Time 11/01/24 12:00
Raw Sample Received by: RM SM
Raw Sample Relinquished by: RJ (Ent Corp)

P4663

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

LAB CHRONICLE

OrderID:	P4663	**OrderDate:**	10/31/2024 3:05:00 PM
Client:	Union Paving & Construction Company	**Project:**	Rt. 10 Whippany
Contact:	Gregory Butler	**Location:**	K41,VOA Ref. #2 Soil

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P4663-02	**TENNANT-PAD-2-3-STOCKPILE**	**SOIL**			**10/31/24**			**10/31/24**
			Herbicide	8151A		11/04/24	11/05/24	
			PCB	8082A		11/01/24	11/01/24	
			Pesticide-TCL	8081B		11/01/24	11/01/24	
			TPH GC	8015D		11/01/24	11/01/24	
			EPH_NF	NJEPH		11/01/24	11/02/24	
P4663-04	**RES-BUILDING-PAD-NO-11**	**SOIL**			**10/31/24**			**10/31/24**
			Herbicide	8151A		11/04/24	11/05/24	
			PCB	8082A		11/01/24	11/01/24	
			Pesticide-TCL	8081B		11/01/24	11/01/24	
			TPH GC	8015D		11/01/24	11/01/24	
			EPH_NF	NJEPH		11/01/24	11/02/24	
P4663-06	**RES-BUILDING-PAD-NO-3**	**SOIL**			**10/31/24**			**10/31/24**
			Herbicide	8151A		11/04/24	11/05/24	
			PCB	8082A		11/01/24	11/01/24	
			Pesticide-TCL	8081B		11/01/24	11/01/24	
			TPH GC	8015D		11/01/24	11/01/24	
			EPH_NF	NJEPH		11/01/24	11/02/24	
P4663-08	**RES-BUILDING-PAD-NO-2**	**SOIL**			**10/31/24**			**10/31/24**
			Herbicide	8151A		11/04/24	11/05/24	
			PCB	8082A		11/01/24	11/01/24	
			Pesticide-TCL	8081B		11/01/24	11/01/24	
			TPH GC	8015D		11/01/24	11/01/24	
			EPH_NF	NJEPH		11/01/24	11/02/24	

SAMPLE DATA

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

Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	10/31/24
Project:	Rt. 10 Whippany	Date Received:	10/31/24
Client Sample ID:	TENNANT-PAD-2-3-STOCKPILE	SDG No.:	P4663
Lab Sample ID:	P4663-02	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	90.9
Sample Wt/Vol:	30.01 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH_NF
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
11/01/24 08:50	11/02/24 2:37	PB164589

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C28-C40	Aliphatic C28-C40	33.0		1	1.98	2.20	mg/kg	FE050985.D
Aliphatic C9-C28	Aliphatic C9-C28	2.48	J	1	1.89	4.40	mg/kg	FE050985.D
Total AliphaticEPH	Total AliphaticEPH	35.5			3.87	6.60	mg/kg	
Total EPH	Total EPH	35.5			3.87	6.60	mg/kg	

* As samples are not fractionated, all aliphatic and aromatic carbon compounds in the C9-C40 carbon range are calculated against the aliphatic calibration curve, and reported as Aliphatic EPH. Therefore, the aliphatic C9-C40 concentration for the sample is reported as the Total EPH.

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

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

Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	10/31/24
Project:	Rt. 10 Whippany	Date Received:	10/31/24
Client Sample ID:	TENNANT-PAD-2-3-STOCKPILE	SDG No.:	P4663
Lab Sample ID:	P4663-02	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	90.9
Sample Wt/Vol:	30.01 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH_NF
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FE050985.D	1	11/01/24	11/02/24	PB164589

CAS Number	Parameter		Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
Aliphatic C9-C28	Aliphatic C9-C28		2.48	J	1.89	4.40	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40		33.0		1.98	2.20	mg/kg
SURROGATES							
3383-33-2	1-chlorooctadecane (SURR)		30.0		40 - 140	60%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)		29.6		40 - 140	59%	SPK: 50

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Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	P4663-02	Acq On:	02 Nov 2024 02:37
Client Sample ID:	TENNANT-PAD-2-3-STO(	Operator:	YP\AJ
Data file:	FE050985.D	Misc:	
Instrument:	FID_E	ALS Vial:	29
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic EPH	3.143	22.051	67407254	486.12		ug/ml
ortho-Terphenyl (SURR)	11.852	11.852	4661640	29.57		ug/ml
1-chlorooctadecane (SURR)	13.285	13.285	3550395	30.01		ug/ml
Aliphatic C9-C12	3.143	6.761	239825	1.678	300	ug/ml
Aliphatic C12-C16	6.762	10.193	731082	5.038	200	ug/ml
Aliphatic C16-C21	10.194	13.552	1443120	9.994	300	ug/ml
Aliphatic C21-C28	13.553	17.208	2666683	18.759	400	ug/ml
Aliphatic C28-C40	17.209	22.051	62326544	450.651	600	ug/ml
Aliphatic C9-C28	3.143	17.208	5080710	35.469	1200	ug/ml

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Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	10/31/24
Project:	Rt. 10 Whippany	Date Received:	10/31/24
Client Sample ID:	RES-BUILDING-PAD-NO-11	SDG No.:	P4663
Lab Sample ID:	P4663-04	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	91.7
Sample Wt/Vol:	30.08 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH_NF
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
11/01/24 08:50	11/02/24 3:07	PB164589

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C28-C40	Aliphatic C28-C40	21.2		1	1.96	2.18	mg/kg	FE050986.D
Aliphatic C9-C28	Aliphatic C9-C28	2.22	J	1	1.87	4.36	mg/kg	FE050986.D
Total AliphaticEPH	Total AliphaticEPH	23.4			3.83	6.54	mg/kg	
Total EPH	Total EPH	23.4			3.83	6.54	mg/kg	

* As samples are not fractionated, all aliphatic and aromatic carbon compounds in the C9-C40 carbon range are calculated against the aliphatic calibration curve, and reported as Aliphatic EPH. Therefore, the aliphatic C9-C40 concentration for the sample is reported as the Total EPH.

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

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Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	10/31/24
Project:	Rt. 10 Whippany	Date Received:	10/31/24
Client Sample ID:	RES-BUILDING-PAD-NO-11	SDG No.:	P4663
Lab Sample ID:	P4663-04	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	91.7
Sample Wt/Vol:	30.08 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH_NF
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FE050986.D	1	11/01/24	11/02/24	PB164589

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	2.22	J	1.87	4.36	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	21.2		1.96	2.18	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	38.3		40 - 140	77%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	38.1		40 - 140	76%	SPK: 50

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Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	P4663-04	Acq On:	02 Nov 2024 03:07
Client Sample ID:	RES-BUILDING-PAD-NO·	Operator:	YP\AJ
Data file:	FE050986.D	Misc:	
Instrument:	FID_E	ALS Vial:	30
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic EPH	3.143	22.051	45039307	324.459		ug/ml
ortho-Terphenyl (SURR)	11.853	11.853	6005696	38.09		ug/ml
1-chlorooctadecane (SURR)	13.286	13.286	4532325	38.31		ug/ml
Aliphatic C9-C12	3.143	6.761	272870	1.91	300	ug/ml
Aliphatic C12-C16	6.762	10.193	853141	5.879	200	ug/ml
Aliphatic C16-C21	10.194	13.552	1398902	9.688	300	ug/ml
Aliphatic C21-C28	13.553	17.208	2128238	14.971	400	ug/ml
Aliphatic C28-C40	17.209	22.051	40386156	292.012	600	ug/ml
Aliphatic C9-C28	3.143	17.208	4653151	32.448	1200	ug/ml

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Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	10/31/24
Project:	Rt. 10 Whippany	Date Received:	10/31/24
Client Sample ID:	RES-BUILDING-PAD-NO-3	SDG No.:	P4663
Lab Sample ID:	P4663-06	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	91.2
Sample Wt/Vol:	30.04 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH_NF
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
11/01/24 08:50	11/05/24 10:42	PB164589

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C28-C40	Aliphatic C28-C40	80.2		2	3.94	4.38	mg/kg	FE051024.D
Aliphatic C9-C28	Aliphatic C9-C28	5.86		1	1.88	4.39	mg/kg	FE050987.D
Total AliphaticEPH	Total AliphaticEPH	86.1			5.82	8.77	mg/kg	
Total EPH	Total EPH	86.1			5.82	8.77	mg/kg	

* As samples are not fractionated, all aliphatic and aromatic carbon compounds in the C9-C40 carbon range are calculated against the aliphatic calibration curve, and reported as Aliphatic EPH. Therefore, the aliphatic C9-C40 concentration for the sample is reported as the Total EPH.

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

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Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	10/31/24
Project:	Rt. 10 Whippany	Date Received:	10/31/24
Client Sample ID:	RES-BUILDING-PAD-NO-3	SDG No.:	P4663
Lab Sample ID:	P4663-06	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	91.2
Sample Wt/Vol:	30.04 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH_NF
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FE050987.D	1	11/01/24	11/02/24	PB164589

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	5.86		1.88	4.39	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	72.8	E	1.97	2.19	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	44.8		40 - 140	90%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	44.5		40 - 140	89%	SPK: 50

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Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	P4663-06	Acq On:	02 Nov 2024 03:37
Client Sample ID:	RES-BUILDING-PAD-NO·	Operator:	YP\AJ
Data file:	FE050987.D	Misc:	
Instrument:	FID_E	ALS Vial:	31
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic EPH	3.143	22.051	149756742	1080		ug/ml
ortho-Terphenyl (SURR)	11.854	11.854	7023173	44.55		ug/ml
1-chlorooctadecane (SURR)	13.286	13.286	5294133	44.75		ug/ml
Aliphatic C9-C12	3.143	6.761	261751	1.832	300	ug/ml
Aliphatic C12-C16	6.762	10.193	937364	6.459	200	ug/ml
Aliphatic C16-C21	10.194	13.552	6679754	46.258	300	ug/ml
Aliphatic C21-C28	13.553	17.208	3913685	27.531	400	ug/ml
Aliphatic C28-C40	17.209	22.051	137964188	997.548	600	ug/ml
Aliphatic C9-C28	3.143	17.208	11792554	82.08	1200	ug/ml

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Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	10/31/24
Project:	Rt. 10 Whippany	Date Received:	10/31/24
Client Sample ID:	RES-BUILDING-PAD-NO-3DL	SDG No.:	P4663
Lab Sample ID:	P4663-06DL	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	91.2
Sample Wt/Vol:	30.04 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH_NF
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FE051024.D	2	11/01/24	11/05/24	PB164589

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	3.77	U	3.77	8.76	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	80.2		3.94	4.38	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	17.0		40 - 140	68%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	17.6		40 - 140	70%	SPK: 50

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Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	P4663-06DL	Acq On:	05 Nov 2024 10:42
Client Sample ID:	RES-BUILDING-PAD-NO-3DL	Operator:	YP\AJ
Data file:	FE051024.D	Misc:	
Instrument:	FID_E	ALS Vial:	3
Dilution Factor:	2	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.140	6.760	179748	1.258	300	ug/ml
Aliphatic C12-C16	6.761	10.191	517008	3.563	200	ug/ml
Aliphatic C16-C21	10.192	13.549	633324	4.386	300	ug/ml
Aliphatic C21-C28	13.550	17.205	1394276	9.808	400	ug/ml
Aliphatic C28-C40	17.206	22.048	75969861	549.299	600	ug/ml
Aliphatic EPH	3.140	22.048	78694217	568.314		ug/ml
ortho-Terphenyl (SURR)	11.851	11.851	2766843	17.55		ug/ml
1-chlorooctadecane (SURR)	13.285	13.285	2006137	16.96		ug/ml
Aliphatic C9-C28	3.140	17.205	2724356	19.015	1200	ug/ml

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Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	10/31/24
Project:	Rt. 10 Whippany	Date Received:	10/31/24
Client Sample ID:	RES-BUILDING-PAD-NO-2	SDG No.:	P4663
Lab Sample ID:	P4663-08	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	91.3
Sample Wt/Vol:	30.09 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH_NF
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
11/01/24 08:50	11/02/24 4:08	PB164589

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C28-C40	Aliphatic C28-C40	14.1		1	1.97	2.18	mg/kg	FE050988.D
Aliphatic C9-C28	Aliphatic C9-C28	1.88	U	1	1.88	4.37	mg/kg	FE050988.D
Total AliphaticEPH	Total AliphaticEPH	14.1			3.85	6.55	mg/kg	
Total EPH	Total EPH	14.1			3.85	6.55	mg/kg	

* As samples are not fractionated, all aliphatic and aromatic carbon compounds in the C9-C40 carbon range are calculated against the aliphatic calibration curve, and reported as Aliphatic EPH. Therefore, the aliphatic C9-C40 concentration for the sample is reported as the Total EPH.

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

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Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	10/31/24
Project:	Rt. 10 Whippany	Date Received:	10/31/24
Client Sample ID:	RES-BUILDING-PAD-NO-2	SDG No.:	P4663
Lab Sample ID:	P4663-08	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	91.3
Sample Wt/Vol:	30.09 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH_NF
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FE050988.D	1	11/01/24	11/02/24	PB164589

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	1.88	U	1.88	4.37	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	14.1		1.97	2.18	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	26.6		40 - 140	53%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	26.4		40 - 140	53%	SPK: 50

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Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	P4663-08	Acq On:	02 Nov 2024 04:08
Client Sample ID:	RES-BUILDING-PAD-NO·	Operator:	YP\AJ
Data file:	FE050988.D	Misc:	
Instrument:	FID_E	ALS Vial:	32
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic EPH	3.143	22.051	30211750	217.573		ug/ml
ortho-Terphenyl (SURR)	11.852	11.852	4154624	26.35		ug/ml
1-chlorooctadecane (SURR)	13.285	13.285	3149331	26.62		ug/ml
Aliphatic C9-C12	3.143	6.761	235582	1.649	300	ug/ml
Aliphatic C12-C16	6.762	10.193	803807	5.539	200	ug/ml
Aliphatic C16-C21	10.194	13.552	867271	6.006	300	ug/ml
Aliphatic C21-C28	13.553	17.208	1428789	10.051	400	ug/ml
Aliphatic C28-C40	17.209	22.051	26876301	194.329	600	ug/ml
Aliphatic C9-C28	3.143	17.208	3335449	23.245	1200	ug/ml

QC SUMMARY

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SOIL EPH SURROGATE RECOVERY

Lab Name: CHEMTECH Contract: UNIO02

Lab Code: CHEM CASE No.: P4663 SAS No.: P4663 SDG No.: P4663

Run Number: FE110124AL

Client SAMPLE NO.	1-chlorooctadecane (SURR)	ortho-Terphenyl (SURR)		TOT OUT
BP-F8MS	85	81		0
BP-F8MSD	86	82		0
TENNANT-PAD-2-3-STOCKPIL	60	59		0
RES-BUILDING-PAD-NO-11	77	76		0
RES-BUILDING-PAD-NO-3	90	89		0
RES-BUILDING-PAD-NO-2	53	53		0
PB164589BL	75	73		0
PB164589BS	91	84		0
PB164589BSD	82	77		0

	QC LIMITS
1-chlorooctadecane (SURR)	(40-140)
ortho-Terphenyl (SURR)	(40-140)

Column to be used to flag recovery values
* Values outside of contract required QC Limits
D Surrogate diluted out

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SOIL EPH SURROGATE RECOVERY

Lab Name: CHEMTECH Contract: UNIO02

Lab Code: CHEM CASE No.: P4663 SAS No.: P4663 SDG No.: P4663

Run Number: FE110524AL

Client SAMPLE NO.	1-chlorooctadecane (SURR)	ortho-Terphenyl (SURR)		TOT OUT
RES-BUILDING-PAD-NO-3DL	68	70		0

	QC LIMITS
1-chlorooctadecane (SURR)	(40-140)
ortho-Terphenyl (SURR)	(40-140)

Column to be used to flag recovery values
* Values outside of contract required QC Limits
D Surrogate diluted out

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SOIL EPH SURROGATE RECOVERY

	QC LIMITS
1-chlorooctadecane (SURR)	(40-140)
ortho-Terphenyl (SURR)	(40-140)

Column to be used to flag recovery values
* Values outside of contract required QC Limits
D Surrogate diluted out

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SOLID EPH_NF MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** Union Paving & Construction Company

Lab Code: CHEM **Cas No:** P4663 **SAS No :** P4663 **SDG No:** P4663

Sample No : P4643-05MS **Datafile:** FE050974.D

Client ID : BP-F8MS

COMPOUND	SPIKE ADDED mg/kg	SAMPLE CONCENTRATION mg/kg	MS/MSD CONCENTRATION mg/kg	% REC	Qual	QC LIMITS
Aliphatic C28-C40	36.1	4.76	31.6	74		(40-140)
Aliphatic C9-C28	120.4	0	97.8	81		(40-140)

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SOLID EPH_NF MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** Union Paving & Construction Company

Lab Code: CHEM **Cas No:** P4663 **SAS No :** P4663 **SDG No:** P4663

Sample No : P4643-05MSD **Datafile:** FE050975.D

Client ID : BP-F8MSD

COMPOUND	SPIKE ADDED mg/kg	SAMPLE CONCENTRATION mg/kg	MS/MSD CONCENTRATION mg/kg	% REC	Qual	RPD |	QC LIMITS	QC Limit Of RPD
Aliphatic C28-C40	36.2	4.76	35.0	84		11 |	(40-140)	25
Aliphatic C9-C28	120.5	0	97.3	81		0.6 |	(40-140)	25

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SOLID EPH_NF LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** Union Paving & Construction Company

Lab Code: CHEM **Cas No:** P4663 **SAS No :** P4663 **SDG No:** P4663

Sample No : PB164589BS **Datafile:** FE050966.D

Client ID : PB164589BS

COMPOUND	SPIKE ADDED mg/kg	LCS/LCSD CONCENTRATION mg/kg	% REC	Qual	QC LIMITS
Aliphatic C28-C40	30.0	21.1	70		(40-140)
Aliphatic C9-C28	99.9	74.0	75		(40-140)

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SOLID EPH_NF LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** Union Paving & Construction Company

Lab Code: CHEM **Cas No:** P4663 **SAS No :** P4663 **SDG No:** P4663

Sample No : PB164589BSD **Datafile:** FE050967.D

Client ID : PB164589BSD

COMPOUND	SPIKE ADDED mg/kg	LCS/LCSD CONCENTRATION mg/kg	% REC	Qual	RPD |	QC LIMITS	QC Limit Of RPD
Aliphatic C28-C40	30.0	20.4	68		3.4|	(40-140)	50
Aliphatic C9-C28	100.1	66.7	68		10.6|	(40-140)	50

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4B
METHOD BLANK SUMMARY

EPA SAMPLE NO.
PB164589BL

Lab Name: CHEMTECH Contract: UNIO02

Lab Code: CHEM Case No.: P4663 SAS No.: P4663 SDG NO.: P4663

Instrument ID: FID_E Lab Sample ID: PB164589BL

Matrix: (soil/water) Solid Date Extracted: 11/1/2024 8:50:00 A

Level: (low/med) low

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

EPA SAMPLE NO.	LAB SAMPLE ID
PB164589BS	PB164589BS
PB164589BSD	PB164589BSD
BP-F8MS	P4643-05MS
BP-F8MSD	P4643-05MSD
TENNANT-PAD-2-3-STOCKPILE	P4663-02
RES-BUILDING-PAD-NO-11	P4663-04
RES-BUILDING-PAD-NO-3	P4663-06
RES-BUILDING-PAD-NO-2	P4663-08

COMMENTS:

QC SAMPLE DATA

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Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	
Project:	Rt. 10 Whippany	Date Received:	
Client Sample ID:	PB164589BL	SDG No.:	P4663
Lab Sample ID:	PB164589BL	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	100
Sample Wt/Vol:	30.01 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH_NF
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
11/01/24 08:50	11/01/24 15:33	PB164589

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C28-C40	Aliphatic C28-C40	1.80	U	1	1.80	2.00	mg/kg	FE050965.D
Aliphatic C9-C28	Aliphatic C9-C28	1.72	U	1	1.72	4.00	mg/kg	FE050965.D
Total AliphaticEPH	Total AliphaticEPH	3.52	U		3.52	6.00	mg/kg	
Total EPH	Total EPH	3.52	U		3.52	6.00	mg/kg	

* As samples are not fractionated, all aliphatic and aromatic carbon compounds in the C9-C40 carbon range are calculated against the aliphatic calibration curve, and reported as Aliphatic EPH. Therefore, the aliphatic C9-C40 concentration for the sample is reported as the Total EPH.

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

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Fax : 908 789 8922

Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	
Project:	Rt. 10 Whippany	Date Received:	
Client Sample ID:	PB164589BL	SDG No.:	P4663
Lab Sample ID:	PB164589BL	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	100
Sample Wt/Vol:	30.01 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH_NF
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FE050965.D	1	11/01/24	11/01/24	PB164589

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	1.72	U	1.72	4.00	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	1.80	U	1.80	2.00	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	37.3		40 - 140	75%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	36.4		40 - 140	73%	SPK: 50

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Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	PB164589BL	Acq On:	01 Nov 2024 15:33
Client Sample ID:	PB164589BL	Operator:	YP\AJ
Data file:	FE050965.D	Misc:	
Instrument:	FID_E	ALS Vial:	11
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic EPH	3.143	22.051	0	0		ug/ml
ortho-Terphenyl (SURR)	11.853	11.853	5744957	36.44		ug/ml
1-chlorooctadecane (SURR)	13.287	13.287	4409327	37.27		ug/ml
Aliphatic C9-C12	3.143	6.761	0	0	300	ug/ml
Aliphatic C12-C16	6.762	10.193	0	0	200	ug/ml
Aliphatic C16-C21	10.194	13.552	0	0	300	ug/ml
Aliphatic C21-C28	13.553	17.208	0	0	400	ug/ml
Aliphatic C28-C40	17.209	22.051	0	0	600	ug/ml
Aliphatic C9-C28	3.143	17.208	0	0	1200	ug/ml

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Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	
Project:	Rt. 10 Whippany	Date Received:	
Client Sample ID:	PB164589BS	SDG No.:	P4663
Lab Sample ID:	PB164589BS	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	100
Sample Wt/Vol:	30.03 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH_NF
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
11/01/24 08:50	11/01/24 16:03	PB164589

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C28-C40	Aliphatic C28-C40	21.1		1	1.80	2.00	mg/kg	FE050966.D
Aliphatic C9-C28	Aliphatic C9-C28	74.0		1	1.72	3.99	mg/kg	FE050966.D
Total AliphaticEPH	Total AliphaticEPH	95.1			3.52	5.99	mg/kg	
Total EPH	Total EPH	95.1			3.52	5.99	mg/kg	

* As samples are not fractionated, all aliphatic and aromatic carbon compounds in the C9-C40 carbon range are calculated against the aliphatic calibration curve, and reported as Aliphatic EPH. Therefore, the aliphatic C9-C40 concentration for the sample is reported as the Total EPH.

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

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

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Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	
Project:	Rt. 10 Whippany	Date Received:	
Client Sample ID:	PB164589BS	SDG No.:	P4663
Lab Sample ID:	PB164589BS	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	100
Sample Wt/Vol:	30.03 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH_NF
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FE050966.D	1	11/01/24	11/01/24	PB164589

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	74.0		1.72	3.99	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	21.1		1.80	2.00	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	45.3		40 - 140	91%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	42.2		40 - 140	84%	SPK: 50

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Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	PB164589BS	Acq On:	01 Nov 2024 16:03
Client Sample ID:	PB164589BS	Operator:	YP\AJ
Data file:	FE050966.D	Misc:	
Instrument:	FID_E	ALS Vial:	12
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic EPH	3.143	22.051	203178114	1430		ug/ml
ortho-Terphenyl (SURR)	11.856	11.856	6651573	42.19		ug/ml
1-chlorooctadecane (SURR)	13.289	13.289	5363050	45.34		ug/ml
Aliphatic C9-C12	3.143	6.761	31598152	221.121	300	ug/ml
Aliphatic C12-C16	6.762	10.193	37902051	261.18	200	ug/ml
Aliphatic C16-C21	10.194	13.552	42197434	292.223	300	ug/ml
Aliphatic C21-C28	13.553	17.208	47711044	335.627	400	ug/ml
Aliphatic C28-C40	17.209	22.051	43769433	316.474	600	ug/ml
Aliphatic C9-C28	3.143	17.208	159408681	1110	1200	ug/ml

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Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	
Project:	Rt. 10 Whippany	Date Received:	
Client Sample ID:	PB164589BSD	SDG No.:	P4663
Lab Sample ID:	PB164589BSD	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	100
Sample Wt/Vol:	30.01 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH_NF
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
11/01/24 08:50	11/01/24 16:33	PB164589

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C28-C40	Aliphatic C28-C40	20.4		1	1.80	2.00	mg/kg	FE050967.D
Aliphatic C9-C28	Aliphatic C9-C28	66.7		1	1.72	4.00	mg/kg	FE050967.D
Total AliphaticEPH	Total AliphaticEPH	87.1			3.52	6.00	mg/kg	
Total EPH	Total EPH	87.1			3.52	6.00	mg/kg	

* As samples are not fractionated, all aliphatic and aromatic carbon compounds in the C9-C40 carbon range are calculated against the aliphatic calibration curve, and reported as Aliphatic EPH. Therefore, the aliphatic C9-C40 concentration for the sample is reported as the Total EPH.

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

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Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	
Project:	Rt. 10 Whippany	Date Received:	
Client Sample ID:	PB164589BSD	SDG No.:	P4663
Lab Sample ID:	PB164589BSD	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	100
Sample Wt/Vol:	30.01 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH_NF
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FE050967.D	1	11/01/24	11/01/24	PB164589

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	66.7		1.72	4.00	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	20.4		1.80	2.00	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	40.9		40 - 140	82%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	38.5		40 - 140	77%	SPK: 50

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Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	PB164589BSD	Acq On:	01 Nov 2024 16:33
Client Sample ID:	PB164589BSD	Operator:	YP\AJ
Data file:	FE050967.D	Misc:	
Instrument:	FID_E	ALS Vial:	13
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic EPH	3.143	22.051	186018226	1310		ug/ml
ortho-Terphenyl (SURR)	11.856	11.856	6076382	38.54		ug/ml
1-chlorooctadecane (SURR)	13.288	13.288	4838219	40.9		ug/ml
Aliphatic C9-C12	3.143	6.761	27996925	195.92	300	ug/ml
Aliphatic C12-C16	6.762	10.193	33997830	234.277	200	ug/ml
Aliphatic C16-C21	10.194	13.552	37985095	263.052	300	ug/ml
Aliphatic C21-C28	13.553	17.208	43801068	308.122	400	ug/ml
Aliphatic C28-C40	17.209	22.051	42237308	305.396	600	ug/ml
Aliphatic C9-C28	3.143	17.208	143780918	1000	1200	ug/ml

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Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	
Project:	Rt. 10 Whippany	Date Received:	
Client Sample ID:	BP-F8MS	SDG No.:	P4663
Lab Sample ID:	P4643-05MS	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	82.8
Sample Wt/Vol:	30.08 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH_NF
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
11/01/24 08:50	11/01/24 20:04	PB164589

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C28-C40	Aliphatic C28-C40	31.6		1	2.17	2.41	mg/kg	FE050974.D
Aliphatic C9-C28	Aliphatic C9-C28	97.8	E	1	2.07	4.81	mg/kg	FE050974.D
Total AliphaticEPH	Total AliphaticEPH	129			4.24	7.22	mg/kg	
Total EPH	Total EPH	129			4.24	7.22	mg/kg	

* As samples are not fractionated, all aliphatic and aromatic carbon compounds in the C9-C40 carbon range are calculated against the aliphatic calibration curve, and reported as Aliphatic EPH. Therefore, the aliphatic C9-C40 concentration for the sample is reported as the Total EPH.

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
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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

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Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	
Project:	Rt. 10 Whippany	Date Received:	
Client Sample ID:	BP-F8MS	SDG No.:	P4663
Lab Sample ID:	P4643-05MS	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	82.8
Sample Wt/Vol:	30.08 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH_NF
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FE050974.D	1	11/01/24	11/01/24	PB164589

CAS Number	Parameter		Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
Aliphatic C9-C28	Aliphatic C9-C28		97.8	E	2.07	4.81	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40		31.6		2.17	2.41	mg/kg
SURROGATES							
3383-33-2	1-chlorooctadecane (SURR)		42.5		40 - 140	85%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)		40.4		40 - 140	81%	SPK: 50

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Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	P4643-05MS	Acq On:	01 Nov 2024 20:04
Client Sample ID:	BP-F8MS	Operator:	YP\AJ
Data file:	FE050974.D	Misc:	
Instrument:	FID_E	ALS Vial:	20
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic EPH	3.143	22.051	229204243	1610		ug/ml
ortho-Terphenyl (SURR)	11.855	11.855	6364201	40.37		ug/ml
1-chlorooctadecane (SURR)	13.287	13.287	5031758	42.54		ug/ml
Aliphatic C9-C12	3.143	6.761	27329296	191.248	300	ug/ml
Aliphatic C12-C16	6.762	10.193	38838585	267.634	200	ug/ml
Aliphatic C16-C21	10.194	13.552	52200069	361.493	300	ug/ml
Aliphatic C21-C28	13.553	17.208	56441887	397.045	400	ug/ml
Aliphatic C28-C40	17.209	22.051	54394406	393.298	600	ug/ml
Aliphatic C9-C28	3.143	17.208	174809837	1220	1200	ug/ml

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Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	
Project:	Rt. 10 Whippany	Date Received:	
Client Sample ID:	BP-F8MSD	SDG No.:	P4663
Lab Sample ID:	P4643-05MSD	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	82.8
Sample Wt/Vol:	30.06 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH_NF
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
11/01/24 08:50	11/01/24 20:34	PB164589

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C28-C40	Aliphatic C28-C40	35.0		1	2.17	2.41	mg/kg	FE050975.D
Aliphatic C9-C28	Aliphatic C9-C28	97.3	E	1	2.07	4.83	mg/kg	FE050975.D
Total AliphaticEPH	Total AliphaticEPH	132			4.24	7.24	mg/kg	
Total EPH	Total EPH	132			4.24	7.24	mg/kg	

* As samples are not fractionated, all aliphatic and aromatic carbon compounds in the C9-C40 carbon range are calculated against the aliphatic calibration curve, and reported as Aliphatic EPH. Therefore, the aliphatic C9-C40 concentration for the sample is reported as the Total EPH.

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

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Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	
Project:	Rt. 10 Whippany	Date Received:	
Client Sample ID:	BP-F8MSD	SDG No.:	P4663
Lab Sample ID:	P4643-05MSD	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	82.8
Sample Wt/Vol:	30.06 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH_NF
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FE050975.D	1	11/01/24	11/01/24	PB164589

CAS Number	Parameter		Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
Aliphatic C9-C28	Aliphatic C9-C28		97.3	E	2.07	4.83	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40		35.0		2.17	2.41	mg/kg
SURROGATES							
3383-33-2	1-chlorooctadecane (SURR)		42.9		40 - 140	86%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)		41.2		40 - 140	82%	SPK: 50

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Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	P4643-05MSD	Acq On:	01 Nov 2024 20:34
Client Sample ID:	BP-F8MSD	Operator:	YP\AJ
Data file:	FE050975.D	Misc:	
Instrument:	FID_E	ALS Vial:	21
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic EPH	3.143	22.051	234089583	1650		ug/ml
ortho-Terphenyl (SURR)	11.855	11.855	6493005	41.18		ug/ml
1-chlorooctadecane (SURR)	13.287	13.287	5071838	42.88		ug/ml
Aliphatic C9-C12	3.143	6.761	27907709	195.295	300	ug/ml
Aliphatic C12-C16	6.762	10.193	39799820	274.258	200	ug/ml
Aliphatic C16-C21	10.194	13.552	47868511	331.497	300	ug/ml
Aliphatic C21-C28	13.553	17.208	58358756	410.529	400	ug/ml
Aliphatic C28-C40	17.209	22.051	60154787	434.948	600	ug/ml
Aliphatic C9-C28	3.143	17.208	173934796	1210	1200	ug/ml

CALIBRATION SUMMARY

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Inital Calibration Report for SequenceID : FE100824AL

AreaCount

Parameter Range	FE050535.D	FE050536.D	FE050537.D	FE050538.D	FE050539.D	
Aliphatic C9-C12	40745791.000	21072572.000	8517410.000	4337343.000	2274924.000	
Aliphatic C12-C16	27735737.000	14244783.000	5792628.000	2930237.000	1531373.000	
Aliphatic C16-C21	40974621.000	21203318.000	8666410.000	4379658.000	2304599.000	
Aliphatic C21-C28	52777882.000	27581000.000	11356069.000	5708818.000	3125067.000	
Aliphatic C28-C40	72232829.000	38094965.000	16699677.000	8422068.000	4938401.000	
Aliphatic EPH	234466860.000	122196638.000	51032194.000	25778124.000	14174364.000	

AVG Response Factor

Parameter Range	AVG RF	% RSD				
Aliphatic C9-C12	142899.9299998	4.087				
Aliphatic C12-C16	145118.273	3.694				
Aliphatic C16-C21	144401.2446664	4.356				
Aliphatic C21-C28	142154.8735	6.306				
Aliphatic C28-C40	138303.281333	12.24				
Aliphatic EPH	141698.847333	7.212				

Concentration

Parameter Range	FE050535.D	FE050536.D	FE050537.D	FE050538.D	FE050539.D	
Aliphatic C9-C12	300.000	150.000	60.000	30.000	15.000	
Aliphatic C12-C16	200.000	100.000	40.000	20.000	10.000	
Aliphatic C16-C21	300.000	150.000	60.000	30.000	15.000	
Aliphatic C21-C28	400.000	200.000	80.000	40.000	20.000	
Aliphatic C28-C40	600.000	300.000	120.000	60.000	30.000	
Aliphatic EPH	1800.000	900.000	360.000	180.000	90.000	

Response Factor

Parameter Range	FE050535.D	FE050536.D	FE050537.D	FE050538.D	FE050539.D	
Aliphatic C9-C12	135819.303333	140483.813333	141956.833333	144578.100000	151661.600000	
Aliphatic C12-C16	138678.685000	142447.830000	144815.700000	146511.850000	153137.300000	
Aliphatic C16-C21	136582.070000	141355.453333	144440.166666	145988.600000	153639.933333	

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Inital Calibration Report for SequenceID : FE100824AL

Aliphatic C21-C28	131944.705000	137905.000000	141950.862500	142720.450000	156253.350000	
Aliphatic C28-C40	120388.048333	126983.216666	139163.975000	140367.800000	164613.366666	
Aliphatic EPH	130259.366666	135774.042222	141756.094444	143211.800000	157492.933333	

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Continuing Calibration Report for SequenceID : FE110124AL

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
File ID :	**FE050964.D**						
Aliphatic C9-C12	7605648.000	60.000	3.143	6.761	126760.800	142899.930	11.294
Aliphatic C12-C16	5284424.000	40.000	6.762	10.193	132110.600	145118.273	8.963
Aliphatic C16-C21	8023053.000	60.000	10.194	13.552	133717.550	144401.245	7.399
Aliphatic C21-C28	10728459.000	80.000	13.553	17.208	134105.738	142154.874	5.662
Aliphatic C28-C40	16555120.000	120.000	17.209	22.051	137959.333	138303.281	0.249
Aliphatic EPH	48196704.000	360.000	3.143	22.051	133879.733	141698.847	5.518

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Lab Sample ID:	20 PPM ALIPHATIC HC S	Acq On:	01 Nov 2024 12:24
Client Sample ID:		Operator:	YP\AJ
Data file:	FE050964.D	Misc:	
Instrument:	FID_E	ALS Vial:	2
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aliphatic C9-C12	3.143	6.761	7605648.000	60.000	ug/ml
Aliphatic C12-C16	6.762	10.193	5284424.000	40.000	ug/ml
Aliphatic C16-C21	10.194	13.552	8023053.000	60.000	ug/ml
Aliphatic C21-C28	13.553	17.208	10728459.000	80.000	ug/ml
Aliphatic C28-C40	17.209	22.051	16555120.000	120.000	ug/ml
Aliphatic EPH	3.143	22.051	48196704.000	360.000	ug/ml

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Continuing Calibration Report for SequenceID : FE110124AL

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
File ID :	**FE050980.D**						
Aliphatic C9-C12	7763670.000	60.000	3.143	6.761	129394.500	142899.930	9.451
Aliphatic C12-C16	5370431.000	40.000	6.762	10.193	134260.775	145118.273	7.482
Aliphatic C16-C21	8127271.000	60.000	10.194	13.552	135454.517	144401.245	6.196
Aliphatic C21-C28	10989147.000	80.000	13.553	17.208	137364.338	142154.874	3.370
Aliphatic C28-C40	16828263.000	120.000	17.209	22.051	140235.525	138303.281	-1.397
Aliphatic EPH	49078782.000	360.000	3.143	22.051	136329.950	141698.847	3.789

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

Lab Sample ID:	20 PPM ALIPHATIC HC S	Acq On:	01 Nov 2024 23:36
Client Sample ID:		Operator:	YP\AJ
Data file:	FE050980.D	Misc:	
Instrument:	FID_E	ALS Vial:	2
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aliphatic C9-C12	3.143	6.761	7763670.000	60.000	ug/ml
Aliphatic C12-C16	6.762	10.193	5370431.000	40.000	ug/ml
Aliphatic C16-C21	10.194	13.552	8127271.000	60.000	ug/ml
Aliphatic C21-C28	13.553	17.208	10989147.000	80.000	ug/ml
Aliphatic C28-C40	17.209	22.051	16828263.000	120.000	ug/ml
Aliphatic EPH	3.143	22.051	49078782.000	360.000	ug/ml

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Fax : 908 789 8922

Continuing Calibration Report for SequenceID : FE110124AL

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
File ID :	**FE050990.D**						
Aliphatic C9-C12	7907796.000	60.000	3.143	6.761	131796.600	142899.930	7.770
Aliphatic C12-C16	5406989.000	40.000	6.762	10.193	135174.725	145118.273	6.852
Aliphatic C16-C21	8107839.000	60.000	10.194	13.552	135130.650	144401.245	6.420
Aliphatic C21-C28	10983169.000	80.000	13.553	17.208	137289.613	142154.874	3.423
Aliphatic C28-C40	16792590.000	120.000	17.209	22.051	139938.250	138303.281	-1.182
Aliphatic EPH	49198383.000	360.000	3.143	22.051	136662.175	141698.847	3.554

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

Lab Sample ID:	20 PPM ALIPHATIC HC S	Acq On:	02 Nov 2024 05:38
Client Sample ID:		Operator:	YP\AJ
Data file:	FE050990.D	Misc:	
Instrument:	FID_E	ALS Vial:	2
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aliphatic C9-C12	3.143	6.761	7907796.000	60.000	ug/ml
Aliphatic C12-C16	6.762	10.193	5406989.000	40.000	ug/ml
Aliphatic C16-C21	10.194	13.552	8107839.000	60.000	ug/ml
Aliphatic C21-C28	13.553	17.208	10983169.000	80.000	ug/ml
Aliphatic C28-C40	17.209	22.051	16792590.000	120.000	ug/ml
Aliphatic EPH	3.143	22.051	49198383.000	360.000	ug/ml

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Fax : 908 789 8922

Continuing Calibration Report for SequenceID : FE110524AL

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
File ID :	**FE051023.D**						
Aliphatic C9-C12	7665518.000	60.000	3.140	6.760	127758.633	142899.930	10.596
Aliphatic C12-C16	5082769.000	40.000	6.761	10.191	127069.225	145118.273	12.437
Aliphatic C16-C21	7446348.000	60.000	10.192	13.549	124105.800	144401.245	14.055
Aliphatic C21-C28	9517574.000	80.000	13.550	17.205	118969.675	142154.874	16.310
Aliphatic C28-C40	13061518.000	120.000	17.206	22.048	108845.983	138303.281	21.299
Aliphatic EPH	42773727.000	360.000	3.140	22.048	118815.908	141698.847	16.149

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

Lab Sample ID:	20 PPM ALIPHATIC HC S	Acq On:	05 Nov 2024 10:07
Client Sample ID:		Operator:	YP\AJ
Data file:	FE051023.D	Misc:	
Instrument:	FID_E	ALS Vial:	2
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aliphatic C9-C12	3.140	6.760	7665518.000	60.000	ug/ml
Aliphatic C12-C16	6.761	10.191	5082769.000	40.000	ug/ml
Aliphatic C16-C21	10.192	13.549	7446348.000	60.000	ug/ml
Aliphatic C21-C28	13.550	17.205	9517574.000	80.000	ug/ml
Aliphatic C28-C40	17.206	22.048	13061518.000	120.000	ug/ml
Aliphatic EPH	3.140	22.048	42773727.000	360.000	ug/ml

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

Continuing Calibration Report for SequenceID : FE110524AL

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
File ID :	**FE051027.D**						
Aliphatic C9-C12	9359759.000	60.000	3.140	6.760	155995.983	142899.930	-9.164
Aliphatic C12-C16	6199823.000	40.000	6.761	10.191	154995.575	145118.273	-6.806
Aliphatic C16-C21	9022037.000	60.000	10.192	13.549	150367.283	144401.245	-4.132
Aliphatic C21-C28	11563549.000	80.000	13.550	17.205	144544.363	142154.874	-1.681
Aliphatic C28-C40	15621079.000	120.000	17.206	22.048	130175.658	138303.281	5.877
Aliphatic EPH	51766247.000	360.000	3.140	22.048	143795.131	141698.847	-1.479

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Fax : 908 789 8922

Lab Sample ID:	20 PPM ALIPHATIC HC S	Acq On:	05 Nov 2024 12:16
Client Sample ID:		Operator:	YP\AJ
Data file:	FE051027.D	Misc:	
Instrument:	FID_E	ALS Vial:	2
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aliphatic C9-C12	3.140	6.760	9359759.000	60.000	ug/ml
Aliphatic C12-C16	6.761	10.191	6199823.000	40.000	ug/ml
Aliphatic C16-C21	10.192	13.549	9022037.000	60.000	ug/ml
Aliphatic C21-C28	13.550	17.205	11563549.000	80.000	ug/ml
Aliphatic C28-C40	17.206	22.048	15621079.000	120.000	ug/ml
Aliphatic EPH	3.140	22.048	51766247.000	360.000	ug/ml

SAMPLE RAW DATA

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE110124AL\
Data File : FE050985.D
Signal(s) : FID1B.ch
Acq On : 02 Nov 2024 02:37
Operator : YP\AJ
Sample : P4663-02
Misc :
ALS Vial : 29 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
TENNANT-PAD-2-3-STOCKPILE

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 11/04/2024
Supervised By :Ankita Jodhani 11/04/2024

Integration File: sample.E
Quant Time: Nov 04 03:12:42 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 100824.M
Quant Title : GC Extractables
QLast Update : Mon Oct 07 16:32:18 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
9) S ortho-Terphenyl (SURR)	11.852	4661640	29.568 ug/mlm
Spiked Amount 50.000		Recovery =	59.14%
12) S 1-chlorooctadecane (S...	13.285	3550395	30.013 ug/ml
Spiked Amount 50.000		Recovery =	60.03%
Target Compounds			

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

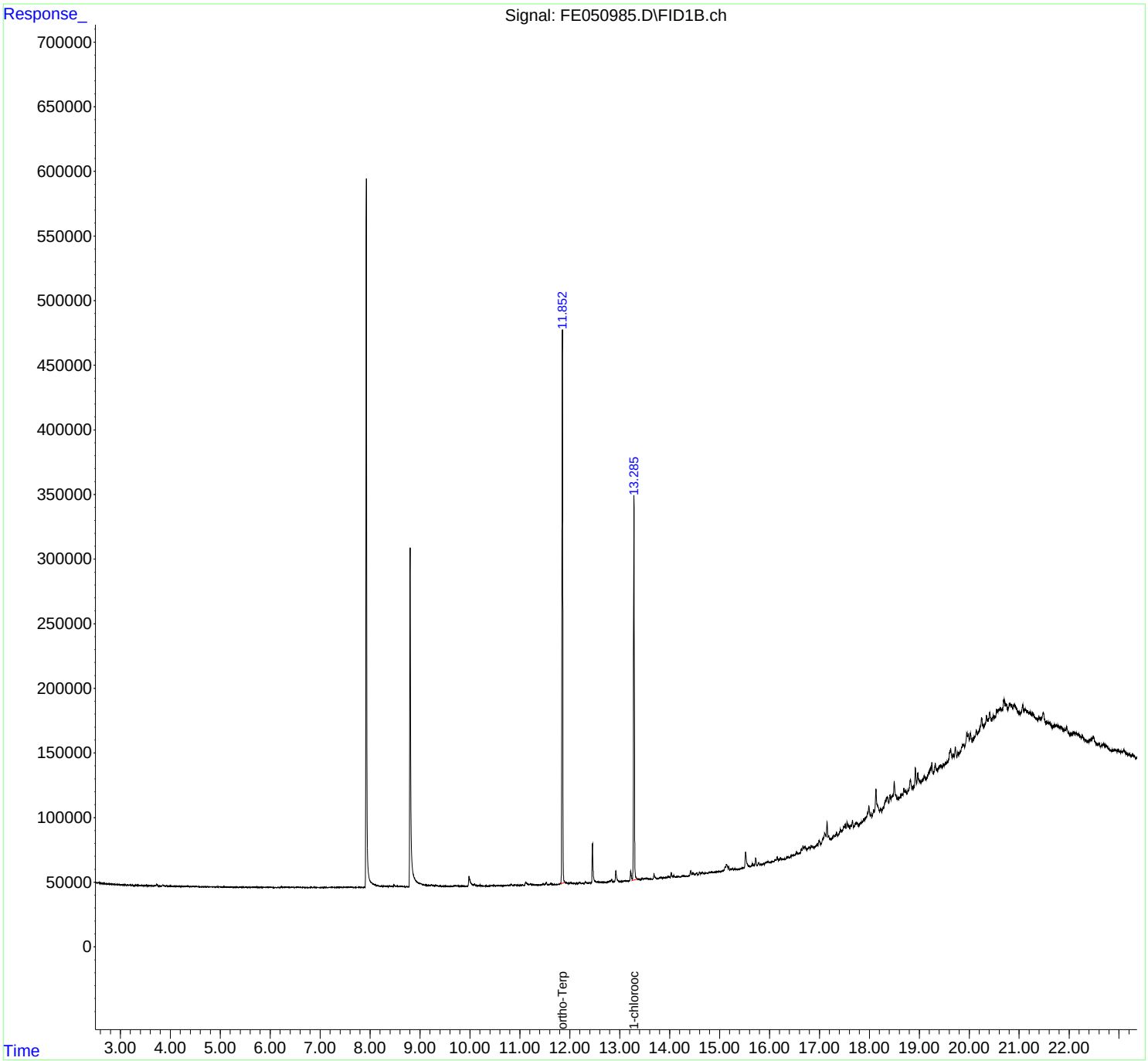
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE110124AL\
Data File : FE050985.D
Signal(s) : FID1B.ch
Acq On : 02 Nov 2024 02:37
Operator : YP\AJ
Sample : P4663-02
Misc :
ALS Vial : 29 Sample Multiplier: 1

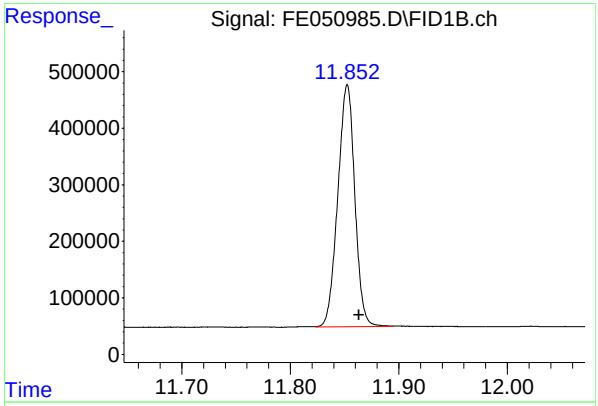
Integration File: sample.E
Quant Time: Nov 04 03:12:42 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 100824.
Quant Title : GC Extractables
QLast Update : Mon Oct 07 16:32:18 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

Instrument :
FID_E
ClientSampleId :
TENNANT-PAD-2-3-STOCKPILE

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 11/04/2024
Supervised By :Ankita Jodhani 11/04/2024





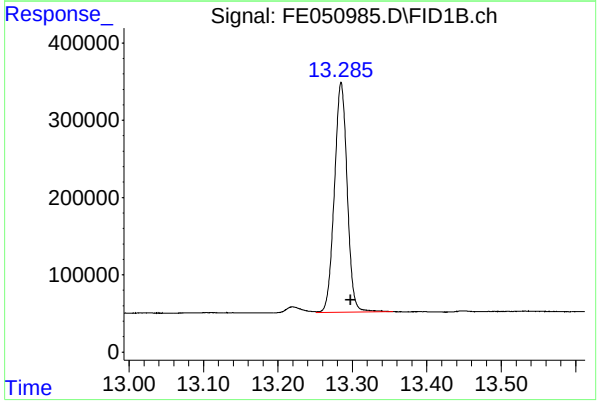
#9 ortho-Terphenyl (SURR)

R.T.: 11.852 min
Delta R.T.: -0.011 min
Response: 4661640
Conc: 29.57 ug/ml

Instrument :
FID_E
ClientSampleId :
TENNANT-PAD-2-3-STOCKPILE

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Reviewed By :Yogesh Patel 11/04/2024
Supervised By :Ankita Jodhani 11/04/2024



#12 1-chlorooctadecane (SURR)

R.T.: 13.285 min
Delta R.T.: -0.013 min
Response: 3550395
Conc: 30.01 ug/ml

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Instrument :
FID_E
ClientSampleId :
TENNANT-PAD-2-3-STOCKPILE

rteres

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/04/2024
Supervised By :Ankita Jodhani 11/04/2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE11012
Data File : FE050985.D
Signal(s) : FID1B.ch
Acq On : 02 Nov 2024 02:37
Sample : P4663-02
Misc :
ALS Vial : 29 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 100824.M
Title : GC Extractables

Signal : FID1B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.238	3.201	3.341	BV	128	1410	0.03%	0.002%
2	3.363	3.341	3.375	PV	83	1431	0.03%	0.002%
3	3.382	3.375	3.408	VV	109	1278	0.03%	0.002%
4	3.428	3.408	3.465	VV	164	3014	0.06%	0.004%
5	3.472	3.465	3.500	VV	99	923	0.02%	0.001%
6	3.510	3.500	3.541	VV	99	1433	0.03%	0.002%
7	3.549	3.541	3.569	VV	116	1213	0.03%	0.002%
8	3.578	3.569	3.657	VV	105	2974	0.06%	0.004%
9	3.678	3.657	3.706	PV	238	3888	0.08%	0.005%
10	3.727	3.706	3.828	VV	1471	26547	0.56%	0.035%
11	3.848	3.828	3.908	VV	830	16636	0.35%	0.022%
12	3.923	3.908	3.978	VV	403	7315	0.15%	0.010%
13	3.998	3.978	4.042	VV	142	3326	0.07%	0.004%
14	4.055	4.042	4.112	VV	159	3129	0.07%	0.004%
15	4.123	4.112	4.182	PV	92	3541	0.07%	0.005%
16	4.191	4.182	4.226	VV	139	2698	0.06%	0.004%
17	4.231	4.226	4.274	VV	133	2710	0.06%	0.004%
18	4.282	4.274	4.291	VV	160	1256	0.03%	0.002%
19	4.295	4.291	4.308	VV	151	1254	0.03%	0.002%
20	4.315	4.308	4.331	VV	225	2352	0.05%	0.003%
21	4.352	4.331	4.395	VV	232	5553	0.12%	0.007%
22	4.408	4.395	4.465	VV	126	4293	0.09%	0.006%
23	4.491	4.465	4.550	VV	257	6580	0.14%	0.009%
24	4.561	4.550	4.601	VV	102	2543	0.05%	0.003%
25	4.609	4.601	4.639	VV	170	1817	0.04%	0.002%
26	4.661	4.639	4.722	PV	134	3698	0.08%	0.005%
27	4.729	4.722	4.761	VV	131	1991	0.04%	0.003%
28	4.777	4.761	4.791	VV	132	1442	0.03%	0.002%
29	4.796	4.791	4.801	VV	92	422	0.01%	0.001%
30	4.810	4.801	4.871	VV	151	3713	0.08%	0.005%
31	4.916	4.871	5.057	VV	200	12286	0.26%	0.016%
32	5.085	5.057	5.114	VV	177	3514	0.07%	0.005%
33	5.121	5.114	5.139	VV	75	649	0.01%	0.001%
34	5.149	5.139	5.205	PV	85	1939	0.04%	0.003%
35	5.231	5.205	5.278	VV	155	2823	0.06%	0.004%
36	5.287	5.278	5.319	VV	92	1193	0.03%	0.002%

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Instrument :
FID_E
ClientSampleId :
TENNANT-PAD-2-3-STOCKPILE

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/04/2024
Supervised By :Ankita Jodhani 11/04/2024

A B C D E F G H I J

					rteres			
37	5.328	5.319	5.351	VV	53	741	0.02%	0.001%
38	5.357	5.351	5.408	PV	39	1078	0	
39	5.415	5.408	5.448	VV	95	1374	0	
40	5.469	5.448	5.497	VV	159	3031	0	
41	5.509	5.497	5.576	VV	165	3136	0	
42	5.584	5.576	5.605	PV	45	438	0	
43	5.630	5.605	5.702	VV	192	5296	0.11%	0.007%
44	5.723	5.702	5.782	VV	377	8877	0.19%	0.012%
45	5.804	5.782	5.851	VV	145	3765	0.08%	0.005%
46	5.855	5.851	5.865	VV	105	537	0.01%	0.001%
47	5.906	5.865	5.968	VV	222	6459	0.14%	0.008%
48	5.981	5.968	6.058	VV	128	3930	0.08%	0.005%
49	6.065	6.058	6.087	VV	78	864	0.02%	0.001%
50	6.107	6.087	6.141	VV	102	1627	0.03%	0.002%
51	6.157	6.141	6.173	PV	65	983	0.02%	0.001%
52	6.227	6.173	6.291	VV	285	11367	0.24%	0.015%
53	6.307	6.291	6.328	VV	253	3571	0.08%	0.005%
54	6.338	6.328	6.351	VV	185	1887	0.04%	0.002%
55	6.370	6.351	6.415	VV	236	5721	0.12%	0.008%
56	6.460	6.415	6.489	VV	173	4992	0.11%	0.007%
57	6.549	6.489	6.641	VV	421	17040	0.36%	0.022%
58	6.677	6.641	6.705	VV	215	5235	0.11%	0.007%
59	6.746	6.705	6.786	VV	173	5092	0.11%	0.007%
60	6.815	6.786	6.919	PV	193	8188	0.17%	0.011%
61	6.929	6.919	6.945	VV	81	1007	0.02%	0.001%
62	6.959	6.945	7.055	VV	179	5165	0.11%	0.007%
63	7.073	7.055	7.098	VV	139	1932	0.04%	0.003%
64	7.103	7.098	7.128	VV	135	1384	0.03%	0.002%
65	7.131	7.128	7.139	VV	149	488	0.01%	0.001%
66	7.165	7.139	7.198	VV	135	3549	0.07%	0.005%
67	7.221	7.198	7.266	VV	213	6325	0.13%	0.008%
68	7.285	7.266	7.301	VV	185	2725	0.06%	0.004%
69	7.309	7.301	7.328	VV	154	2208	0.05%	0.003%
70	7.343	7.328	7.355	VV	239	2880	0.06%	0.004%
71	7.384	7.355	7.425	VV	301	8285	0.17%	0.011%
72	7.454	7.425	7.468	VV	255	3997	0.08%	0.005%
73	7.505	7.468	7.522	VV	303	7765	0.16%	0.010%
74	7.554	7.522	7.588	VV	317	8906	0.19%	0.012%
75	7.607	7.588	7.678	VV	316	10515	0.22%	0.014%
76	7.686	7.678	7.696	VV	112	792	0.02%	0.001%
77	7.724	7.696	7.765	PV	102	2728	0.06%	0.004%
78	7.768	7.765	7.797	VV	93	1211	0.03%	0.002%
79	7.807	7.797	7.848	PV	74	770	0.02%	0.001%
80	8.278	8.255	8.347	VV	919	40878	0.86%	0.054%
81	8.398	8.347	8.445	VV	951	43085	0.91%	0.057%
82	8.482	8.445	8.526	VV	1640	44299	0.93%	0.058%
83	8.544	8.526	8.574	VV	794	15755	0.33%	0.021%
84	8.598	8.574	8.664	VV	651	27284	0.57%	0.036%
85	8.681	8.664	8.708	VV	437	7844	0.17%	0.010%
86	8.726	8.708	8.775	VV	306	5867	0.12%	0.008%
87	9.140	9.127	9.157	VV	1120	19099	0.40%	0.025%
88	9.168	9.157	9.201	VV	1083	25233	0.53%	0.033%
89	9.227	9.201	9.285	VV	1471	50376	1.06%	0.066%

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Instrument :
FID_E
ClientSampleId :
TENNANT-PAD-2-3-STOCKPILE

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/04/2024
Supervised By :Ankita Jodhani 11/04/2024

A B C D E F G H I J

rteres

90	9.313	9.285	9.421	VV	1318	54756	1.15%	0.072%
91	9.433	9.421	9.451	VV	369	5593		
92	9.469	9.451	9.482	VV	442	6426		
93	9.515	9.482	9.537	VV	359	9655		
94	9.554	9.537	9.590	VV	245	5412		
95	9.606	9.590	9.634	VV	265	5072		
96	9.706	9.634	9.753	VV	585	24076	0.51%	0.032%
97	9.768	9.753	9.798	VV	395	7107	0.15%	0.009%
98	9.821	9.798	9.829	VV	318	3862	0.08%	0.005%
99	9.846	9.829	9.860	VV	231	3691	0.08%	0.005%
100	9.870	9.860	9.908	VV	236	3054	0.06%	0.004%
101	9.928	9.908	9.945	PV	312	3326	0.07%	0.004%
102	9.984	9.945	10.071	VV	7739	192615	4.06%	0.253%
103	10.090	10.071	10.177	VV	1664	45897	0.97%	0.060%
104	10.198	10.177	10.359	VV	1050	27288	0.57%	0.036%
105	10.366	10.359	10.383	PV	79	427	0.01%	0.001%
106	10.438	10.383	10.457	PV	418	7028	0.15%	0.009%
107	10.480	10.457	10.506	VV	499	8932	0.19%	0.012%
108	10.565	10.506	10.605	VV	386	13816	0.29%	0.018%
109	10.622	10.605	10.661	VV	315	4648	0.10%	0.006%
110	10.753	10.661	10.773	PV	646	16005	0.34%	0.021%
111	10.829	10.773	10.863	VV	1256	27203	0.57%	0.036%
112	10.899	10.863	10.921	VV	671	12777	0.27%	0.017%
113	10.936	10.921	10.951	VV	306	4951	0.10%	0.007%
114	10.955	10.951	11.020	VV	333	4981	0.10%	0.007%
115	11.052	11.020	11.085	VV	463	7611	0.16%	0.010%
116	11.121	11.085	11.183	VV	2287	67273	1.42%	0.088%
117	11.205	11.183	11.355	VV	933	39964	0.84%	0.052%
118	11.415	11.355	11.434	PV	166	2266	0.05%	0.003%
119	11.463	11.434	11.486	VV	1207	16390	0.35%	0.022%
120	11.532	11.486	11.558	VV	2046	35010	0.74%	0.046%
121	11.572	11.558	11.594	VV	256	4291	0.09%	0.006%
122	11.621	11.594	11.655	VV	1329	22012	0.46%	0.029%
123	11.672	11.655	11.680	VV	157	1833	0.04%	0.002%
124	11.693	11.680	11.711	VV	189	2255	0.05%	0.003%
125	11.730	11.711	11.747	VV	237	3659	0.08%	0.005%
126	11.773	11.747	11.795	VV	279	3588	0.08%	0.005%
127	11.852	11.795	11.931	PV	426707	4747560	100.00%	6.234%
128	11.944	11.931	11.975	VV	1142	24137	0.51%	0.032%
129	11.985	11.975	11.998	VV	658	8306	0.17%	0.011%
130	12.021	11.998	12.038	VV	1368	21650	0.46%	0.028%
131	12.052	12.038	12.070	VV	719	11552	0.24%	0.015%
132	12.090	12.070	12.118	VV	713	13231	0.28%	0.017%
133	12.139	12.118	12.160	VV	513	7543	0.16%	0.010%
134	12.199	12.160	12.225	PV	1424	23658	0.50%	0.031%
135	12.248	12.225	12.278	VV	301	5546	0.12%	0.007%
136	12.310	12.278	12.373	PV	1241	29584	0.62%	0.039%
137	12.404	12.373	12.428	VV	445	9945	0.21%	0.013%
138	12.456	12.428	12.545	VV	30603	423868	8.93%	0.557%
139	12.554	12.545	12.571	VV	768	10744	0.23%	0.014%
140	12.584	12.571	12.630	VV	787	17904	0.38%	0.024%
141	12.657	12.630	12.678	VV	483	9650	0.20%	0.013%

11

Instrument :
FID_E
ClientSampleId :
TENNANT-PAD-2-3-STOCKPILE

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/04/2024
Supervised By :Ankita Jodhani 11/04/2024

A B C D E F G H I J

					rteres			
142	12.693	12.678	12.732	VV	327	6644	0.14%	0.009%
143	12.802	12.732	12.817	VV	1211	26982		
144	12.839	12.817	12.891	VV	2166	39070		
145	12.922	12.891	13.002	VV	8753	154248		
146	13.026	13.002	13.058	VV	398	7232		
147	13.105	13.058	13.127	VV	581	14160		
148	13.139	13.127	13.177	VV	389	6700	0.14%	0.009%
149	13.220	13.177	13.251	PV	7766	121075	2.55%	0.159%
150	13.285	13.251	13.370	VV	297411	3609733	76.03%	4.740%
151	13.393	13.370	13.424	VV	1069	25442	0.54%	0.033%
152	13.449	13.424	13.468	VV	1744	27320	0.58%	0.036%
153	13.532	13.468	13.591	VV	1258	62721	1.32%	0.082%
154	13.606	13.591	13.648	VV	389	8262	0.17%	0.011%
155	13.687	13.648	13.745	VV	4180	76245	1.61%	0.100%
156	13.753	13.745	13.771	VV	209	1811	0.04%	0.002%
157	13.827	13.771	13.871	VV	1054	30978	0.65%	0.041%
158	13.890	13.871	13.907	VV	397	7346	0.15%	0.010%
159	13.928	13.907	13.943	VV	672	9351	0.20%	0.012%
160	13.984	13.943	14.008	VV	1343	31462	0.66%	0.041%
161	14.033	14.008	14.068	VV	3827	58494	1.23%	0.077%
162	14.087	14.068	14.118	VV	1413	20353	0.43%	0.027%
163	14.132	14.118	14.140	VV	504	5212	0.11%	0.007%
164	14.154	14.140	14.199	VV	483	11093	0.23%	0.015%
165	14.254	14.199	14.318	VV	763	26149	0.55%	0.034%
166	14.332	14.318	14.341	VV	222	1888	0.04%	0.002%
167	14.350	14.341	14.369	VV	197	1675	0.04%	0.002%
168	14.421	14.369	14.452	PV	3926	71812	1.51%	0.094%
169	14.469	14.452	14.495	VV	2317	37307	0.79%	0.049%
170	14.540	14.495	14.570	VV	1691	40384	0.85%	0.053%
171	14.596	14.570	14.620	VV	2343	35039	0.74%	0.046%
172	14.656	14.620	14.682	VV	1751	37210	0.78%	0.049%
173	14.708	14.682	14.718	VV	713	10785	0.23%	0.014%
174	14.740	14.718	14.768	VV	842	17033	0.36%	0.022%
175	14.792	14.768	14.821	VV	1359	26702	0.56%	0.035%
176	14.851	14.821	14.875	VV	1001	20227	0.43%	0.027%
177	14.908	14.875	14.919	VV	442	10822	0.23%	0.014%
178	14.993	14.919	15.025	VV	719	25473	0.54%	0.033%
179	15.072	15.025	15.081	VV	962	18667	0.39%	0.025%
180	15.140	15.081	15.169	VV	5240	166613	3.51%	0.219%
181	15.181	15.169	15.218	VV	2850	51582	1.09%	0.068%
182	15.230	15.218	15.245	VV	1307	17056	0.36%	0.022%
183	15.265	15.245	15.291	VV	1409	26029	0.55%	0.034%
184	15.332	15.291	15.361	VV	831	20752	0.44%	0.027%
185	15.379	15.361	15.390	PV	268	2916	0.06%	0.004%
186	15.451	15.390	15.487	VV	703	17764	0.37%	0.023%
187	15.520	15.487	15.589	PV	12218	258133	5.44%	0.339%
188	15.603	15.589	15.623	VV	764	11709	0.25%	0.015%
189	15.655	15.623	15.692	VV	2451	42939	0.90%	0.056%
190	15.723	15.692	15.755	VV	5904	85212	1.79%	0.112%
191	15.782	15.755	15.808	VV	1936	32087	0.68%	0.042%
192	15.823	15.808	15.850	PV	496	6131	0.13%	0.008%
193	15.876	15.850	15.889	PV	712	8521	0.18%	0.011%
194	15.935	15.889	15.951	VV	1078	25860	0.54%	0.034%

11

Instrument :
FID_E
ClientSampleId :
TENNANT-PAD-2-3-STOCKPILE

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/04/2024
Supervised By :Ankita Jodhani 11/04/2024

A B C D E F G H I J

					rteres			
195	15.970	15.951	16.015	VV	1173	25730	0.54%	0.034%
196	16.050	16.015	16.088	VV	780	19122		
197	16.125	16.088	16.134	VV	1303	27321		
198	16.155	16.134	16.185	VV	3537	55749		
199	16.224	16.185	16.255	VV	1742	41290		
200	16.297	16.255	16.311	VV	781	14308		
201	16.345	16.311	16.355	PV	1453	18641	0.39%	0.024%
202	16.371	16.355	16.395	VV	1051	15835	0.33%	0.021%
203	16.457	16.395	16.471	PV	1168	25008	0.53%	0.033%
204	16.488	16.471	16.511	VV	923	12557	0.26%	0.016%
205	16.539	16.511	16.578	VV	2004	43172	0.91%	0.057%
206	16.603	16.578	16.618	VV	520	8093	0.17%	0.011%
207	16.638	16.618	16.651	VV	2848	36905	0.78%	0.048%
208	16.669	16.651	16.687	VV	4944	71896	1.51%	0.094%
209	16.711	16.687	16.741	VV	3807	81899	1.73%	0.108%
210	16.800	16.741	16.814	VV	1729	54085	1.14%	0.071%
211	16.833	16.814	16.884	VV	1957	44539	0.94%	0.058%
212	16.951	16.884	16.961	PV	1086	23184	0.49%	0.030%
213	16.992	16.961	17.034	VV	3986	77344	1.63%	0.102%
214	17.106	17.034	17.130	VV	7618	244915	5.16%	0.322%
215	17.152	17.130	17.175	VV	15488	236635	4.98%	0.311%
216	17.184	17.175	17.229	VV	4476	73371	1.55%	0.096%
217	17.289	17.229	17.304	VV	3066	72021	1.52%	0.095%
218	17.343	17.304	17.366	VV	4034	94612	1.99%	0.124%
219	17.419	17.366	17.453	VV	5392	173754	3.66%	0.228%
220	17.488	17.453	17.501	VV	6290	146538	3.09%	0.192%
221	17.514	17.501	17.531	VV	7947	111439	2.35%	0.146%
222	17.552	17.531	17.571	VV	8777	154877	3.26%	0.203%
223	17.587	17.571	17.607	VV	5285	100731	2.12%	0.132%
224	17.625	17.607	17.637	VV	5120	78679	1.66%	0.103%
225	17.661	17.637	17.691	VV	8499	170024	3.58%	0.223%
226	17.727	17.691	17.796	VV	5662	242588	5.11%	0.319%
227	17.822	17.796	17.833	VV	3993	76444	1.61%	0.100%
228	17.888	17.833	17.914	VV	6115	220827	4.65%	0.290%
229	17.990	17.914	18.015	VV	14029	507482	10.69%	0.666%
230	18.034	18.015	18.050	VV	7933	130983	2.76%	0.172%
231	18.085	18.050	18.098	VV	9563	208239	4.39%	0.273%
232	18.131	18.098	18.206	VV	24801	810593	17.07%	1.064%
233	18.229	18.206	18.245	VV	7874	164019	3.45%	0.215%
234	18.276	18.245	18.288	VV	8072	186125	3.92%	0.244%
235	18.359	18.288	18.388	VV	15096	727528	15.32%	0.955%
236	18.415	18.388	18.431	VV	15342	336894	7.10%	0.442%
237	18.497	18.431	18.551	VV	24569	1092378	23.01%	1.434%
238	18.569	18.551	18.591	VV	11007	248690	5.24%	0.327%
239	18.629	18.591	18.638	VV	12361	306233	6.45%	0.402%
240	18.656	18.638	18.671	VV	12598	236348	4.98%	0.310%
241	18.690	18.671	18.758	VV	16103	687789	14.49%	0.903%
242	18.821	18.758	18.851	VV	20854	864218	18.20%	1.135%
243	18.866	18.851	18.881	VV	14702	249679	5.26%	0.328%
244	18.921	18.881	18.945	VV	28283	727374	15.32%	0.955%
245	18.969	18.945	19.005	VV	23707	681092	14.35%	0.894%
246	19.017	19.005	19.031	VV	16944	255956	5.39%	0.336%

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Instrument :
FID_E
ClientSampleId :
TENNANT-PAD-2-3-STOCKPILE

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/04/2024
Supervised By :Ankita Jodhani 11/04/2024

A B C D E F G H I J

				rteres				
247	19.099	19.031	19.148	VV	18917	1173746	24.72%	1.541%
248	19.223	19.148	19.234	VV	23556	1038204	21	
249	19.251	19.234	19.282	VV	26938	636349	13	
250	19.319	19.282	19.361	VV	25139	994058	20	
251	19.382	19.361	19.391	VV	21063	364748	7	
252	19.433	19.391	19.455	VV	22044	809675	17	
253	19.478	19.455	19.488	VV	21231	413422	8.71%	0.543%
254	19.529	19.488	19.539	VV	22768	668590	14.08%	0.878%
255	19.628	19.539	19.654	VV	31687	1754581	36.96%	2.304%
256	19.673	19.654	19.693	VV	26580	598166	12.60%	0.785%
257	19.721	19.693	19.750	VV	31572	911552	19.20%	1.197%
258	19.773	19.750	19.781	VV	25951	462307	9.74%	0.607%
259	19.797	19.781	19.807	VV	25385	382041	8.05%	0.502%
260	19.888	19.807	19.908	VV	30769	1720290	36.24%	2.259%
261	19.952	19.908	19.968	VV	37991	1211481	25.52%	1.591%
262	19.983	19.968	19.999	VV	37000	650607	13.70%	0.854%
263	20.022	19.999	20.055	VV	37115	1130805	23.82%	1.485%
264	20.071	20.055	20.082	VV	32542	509346	10.73%	0.669%
265	20.140	20.082	20.160	VV	37791	1576907	33.22%	2.071%
266	20.247	20.160	20.294	VV	44675	3082606	64.93%	4.048%
267	20.345	20.294	20.380	VV	45262	2111403	44.47%	2.772%
268	20.412	20.380	20.452	VV	46573	1853112	39.03%	2.433%
269	20.479	20.452	20.518	VV	43285	1625619	34.24%	2.135%
270	20.550	20.518	20.564	VV	46886	1218705	25.67%	1.600%
271	20.601	20.564	20.611	VV	46047	1283754	27.04%	1.686%
272	20.627	20.611	20.648	VV	46884	1005400	21.18%	1.320%
273	20.701	20.648	20.722	VV	52381	2120377	44.66%	2.784%
274	20.732	20.722	20.777	VV	47959	1503784	31.67%	1.975%
275	20.802	20.777	20.812	VV	47393	949992	20.01%	1.247%
276	20.821	20.812	20.872	VV	46604	1615713	34.03%	2.122%
277	20.889	20.872	20.991	VV	44643	2979085	62.75%	3.912%
278	21.002	20.991	21.011	VV	37267	440098	9.27%	0.578%
279	21.029	21.011	21.041	VV	36532	650760	13.71%	0.854%
280	21.070	21.041	21.098	VV	41737	1317703	27.76%	1.730%
281	21.115	21.098	21.148	VV	37960	1101609	23.20%	1.446%
282	21.160	21.148	21.190	VV	35803	876475	18.46%	1.151%
283	21.209	21.190	21.251	VV	34024	1209967	25.49%	1.589%
284	21.271	21.251	21.338	VV	32578	1545895	32.56%	2.030%
285	21.348	21.338	21.372	VV	27280	539811	11.37%	0.709%
286	21.399	21.372	21.445	VV	27005	1111493	23.41%	1.459%
287	21.484	21.445	21.539	VV	28972	1404308	29.58%	1.844%
288	21.553	21.539	21.604	VV	21329	773393	16.29%	1.016%
289	21.614	21.604	21.668	VV	19304	652070	13.73%	0.856%
290	21.711	21.668	21.733	VV	15910	592106	12.47%	0.777%
291	21.747	21.733	21.771	VV	15072	327891	6.91%	0.431%
292	21.777	21.771	21.814	VV	14320	333246	7.02%	0.438%
293	21.832	21.814	21.918	VV	12915	639665	13.47%	0.840%
294	21.952	21.918	21.985	VV	10471	328380	6.92%	0.431%
295	21.994	21.985	22.009	VV	5541	61095	1.29%	0.080%
296	22.086	22.009	22.108	VV	3524	185204	3.90%	0.243%
297	22.114	22.108	22.159	VV	3035	69338	1.46%	0.091%
298	22.168	22.159	22.201	VBA	1527	138956	2.93%	0.182%
			Sum of corrected areas:			76158052		

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Instrument :
FID_E
ClientSampleId :
TENNANT-PAD-2-3-STOCKPILE

rteres

Aliphatic EPH 100824.M Mon Nov 04 04:38:31 2024

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/04/2024
Supervised By :Ankita Jodhani 11/04/2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE110124AL\
Data File : FE050986.D
Signal(s) : FID1B.ch
Acq On : 02 Nov 2024 03:07
Operator : YP\AJ
Sample : P4663-04
Misc :
ALS Vial : 30 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
RES-BUILDING-PAD-NO-11

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 11/04/2024
Supervised By :Ankita Jodhani 11/04/2024

Integration File: sample.E
Quant Time: Nov 04 03:12:50 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 100824.M
Quant Title : GC Extractables
QLast Update : Mon Oct 07 16:32:18 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
9) S ortho-Terphenyl (SURR)	11.853	6005696	38.094 ug/mlm
Spiked Amount 50.000		Recovery =	76.19%
12) S 1-chlorooctadecane (S...	13.286	4532325	38.314 ug/ml
Spiked Amount 50.000		Recovery =	76.63%
Target Compounds			

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

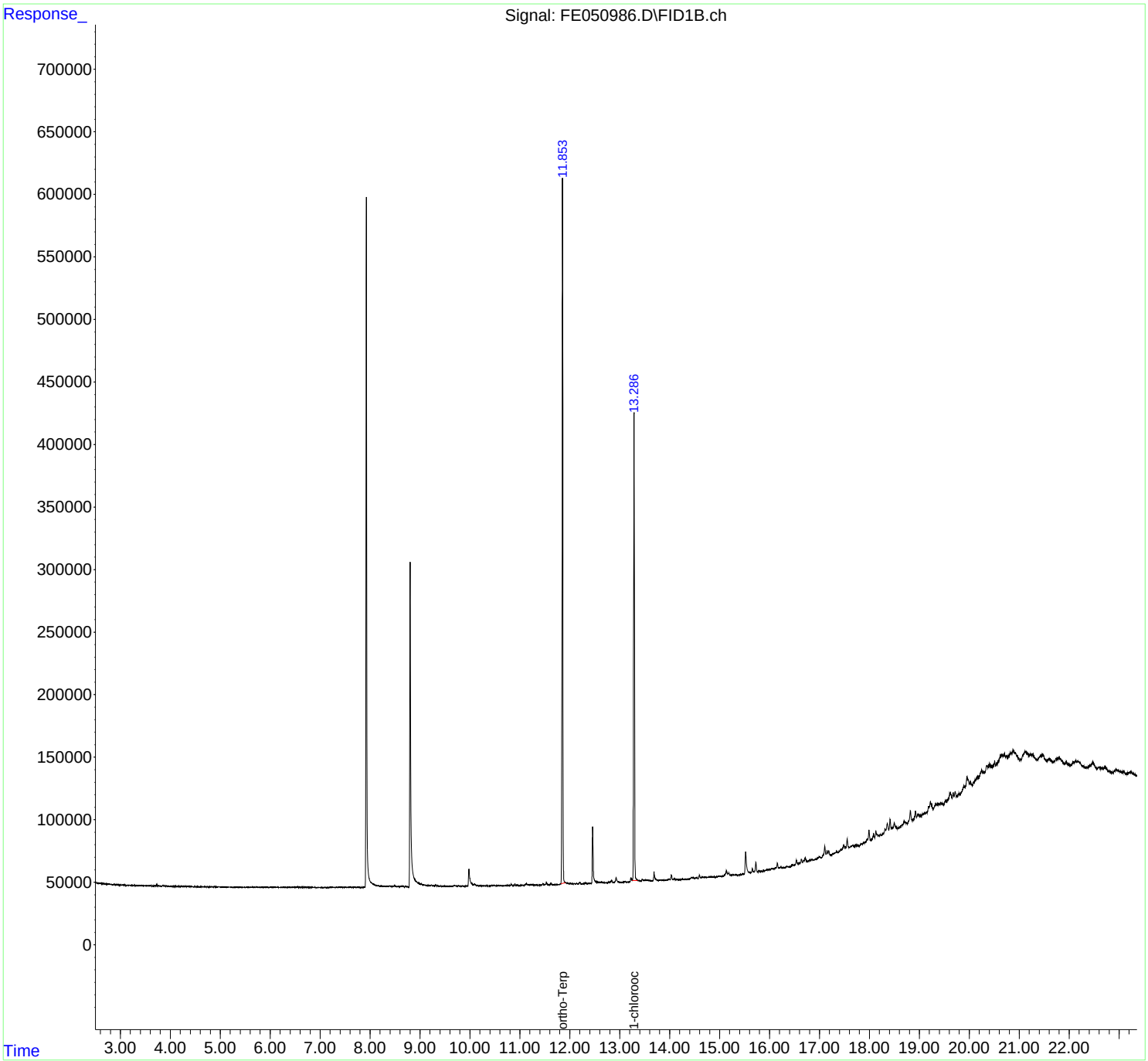
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE110124AL\
Data File : FE050986.D
Signal(s) : FID1B.ch
Acq On : 02 Nov 2024 03:07
Operator : YP\AJ
Sample : P4663-04
Misc :
ALS Vial : 30 Sample Multiplier: 1

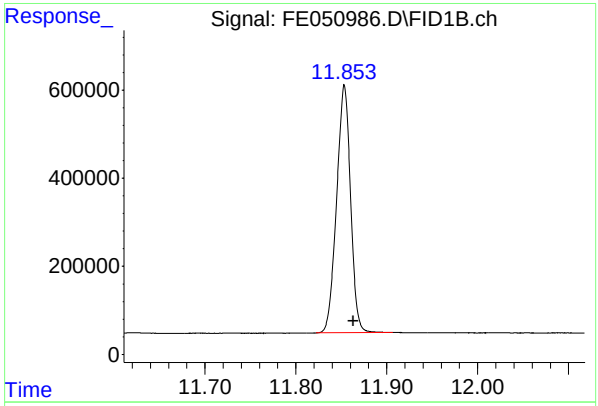
Integration File: sample.E
Quant Time: Nov 04 03:12:50 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 100824.
Quant Title : GC Extractables
QLast Update : Mon Oct 07 16:32:18 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

Instrument :
FID_E
ClientSampleId :
RES-BUILDING-PAD-NO-11

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 11/04/2024
Supervised By :Ankita Jodhani 11/04/2024





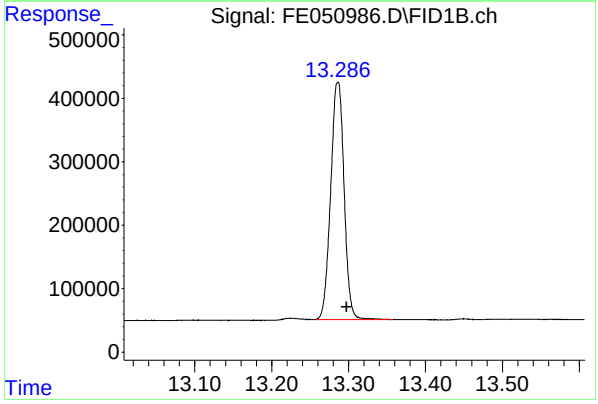
#9 ortho-Terphenyl (SURR)

R.T.: 11.853 min
Delta R.T.: -0.010 min
Response: 6005696
Conc: 38.09 ug/ml

Instrument :
FID_E
ClientSampleId :
RES-BUILDING-PAD-NO-11

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/04/2024
Supervised By :Ankita Jodhani 11/04/2024



#12 1-chlorooctadecane (SURR)

R.T.: 13.286 min
Delta R.T.: -0.012 min
Response: 4532325
Conc: 38.31 ug/ml

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Instrument :
FID_E
ClientSampleId :
RES-BUILDING-PAD-NO-11

rteres

Area Percent Report

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Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE11012
Data File : FE050986.D
Signal(s) : FID1B.ch
Acq On : 02 Nov 2024 03:07
Sample : P4663-04
Misc :
ALS Vial : 30 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 100824.M
Title : GC Extractables

Signal : FID1B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.234	3.204	3.281	BV	193	3170	0.05%	0.006%
2	3.284	3.281	3.348	VV	84	140	0.00%	0.000%
3	3.363	3.348	3.419	PV	177	2698	0.04%	0.005%
4	3.435	3.419	3.573	VV	162	3085	0.05%	0.005%
5	3.587	3.573	3.661	PV	113	1970	0.03%	0.003%
6	3.698	3.661	3.708	PV	238	4659	0.08%	0.008%
7	3.728	3.708	3.824	VV	1351	23567	0.39%	0.041%
8	3.850	3.824	3.904	VV	687	13934	0.23%	0.025%
9	3.925	3.904	3.954	VV	348	5470	0.09%	0.010%
10	3.965	3.954	3.985	VV	118	1153	0.02%	0.002%
11	3.993	3.985	4.009	PV	61	587	0.01%	0.001%
12	4.034	4.009	4.126	VV	82	3993	0.07%	0.007%
13	4.138	4.126	4.190	PV	68	2329	0.04%	0.004%
14	4.205	4.190	4.211	VV	116	1136	0.02%	0.002%
15	4.221	4.211	4.291	VV	188	5861	0.10%	0.010%
16	4.309	4.291	4.336	VV	221	3770	0.06%	0.007%
17	4.352	4.336	4.418	VV	279	6610	0.11%	0.012%
18	4.427	4.418	4.469	VV	129	1892	0.03%	0.003%
19	4.494	4.469	4.520	VV	267	4027	0.07%	0.007%
20	4.536	4.520	4.561	VV	161	2700	0.04%	0.005%
21	4.565	4.561	4.588	VV	107	1057	0.02%	0.002%
22	4.608	4.588	4.641	VV	167	2578	0.04%	0.005%
23	4.667	4.641	4.707	VV	229	4500	0.07%	0.008%
24	4.714	4.707	4.734	VV	154	989	0.02%	0.002%
25	4.744	4.734	4.767	VV	83	1198	0.02%	0.002%
26	4.778	4.767	4.785	VV	125	851	0.01%	0.001%
27	4.800	4.785	4.928	VV	151	11276	0.18%	0.020%
28	4.962	4.928	5.020	VV	202	7725	0.13%	0.014%
29	5.030	5.020	5.065	VV	133	2572	0.04%	0.005%
30	5.078	5.065	5.107	VV	169	2322	0.04%	0.004%
31	5.117	5.107	5.191	VV	112	3217	0.05%	0.006%
32	5.200	5.191	5.214	VV	83	760	0.01%	0.001%
33	5.225	5.214	5.278	VV	146	2940	0.05%	0.005%
34	5.291	5.278	5.315	PV	120	1209	0.02%	0.002%
35	5.331	5.315	5.372	VV	98	2379	0.04%	0.004%
36	5.380	5.372	5.411	VV	146	1525	0.02%	0.003%

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rteres

37	5.419	5.411	5.429	PV	128	796	0.01%	0.001%
38	5.475	5.429	5.495	VV	249	5927		
39	5.509	5.495	5.611	VV	191	7779		
40	5.643	5.611	5.679	PV	227	5485		
41	5.724	5.679	5.801	VV	487	16219		
42	5.820	5.801	5.852	VV	240	5367		
43	5.902	5.852	5.978	VV	316	13699	0.22%	0.024%
44	6.005	5.978	6.048	VV	346	8635	0.14%	0.015%
45	6.057	6.048	6.097	VV	197	3617	0.06%	0.006%
46	6.108	6.097	6.145	VV	173	2520	0.04%	0.004%
47	6.153	6.145	6.191	VV	95	1491	0.02%	0.003%
48	6.242	6.191	6.275	VV	321	9758	0.16%	0.017%
49	6.291	6.275	6.351	VV	234	7025	0.11%	0.012%
50	6.373	6.351	6.411	VV	241	5386	0.09%	0.009%
51	6.468	6.411	6.495	VV	200	6692	0.11%	0.012%
52	6.549	6.495	6.614	VV	590	16200	0.27%	0.028%
53	6.638	6.614	6.648	VV	378	4735	0.08%	0.008%
54	6.656	6.648	6.719	VV	328	8051	0.13%	0.014%
55	6.726	6.719	6.768	VV	195	3639	0.06%	0.006%
56	6.779	6.768	6.786	VV	132	904	0.01%	0.002%
57	6.815	6.786	6.831	VV	198	2962	0.05%	0.005%
58	6.848	6.831	6.865	VV	113	1871	0.03%	0.003%
59	6.907	6.865	6.921	VV	141	3207	0.05%	0.006%
60	6.925	6.921	6.940	VV	138	1004	0.02%	0.002%
61	6.967	6.940	6.981	VV	123	2507	0.04%	0.004%
62	6.985	6.981	6.992	VV	130	545	0.01%	0.001%
63	6.998	6.992	7.024	VV	108	1331	0.02%	0.002%
64	7.048	7.024	7.094	VV	117	2736	0.04%	0.005%
65	7.138	7.094	7.192	PV	90	3917	0.06%	0.007%
66	7.217	7.192	7.259	VV	237	6485	0.11%	0.011%
67	7.279	7.259	7.311	VV	155	3626	0.06%	0.006%
68	7.349	7.311	7.361	VV	280	6102	0.10%	0.011%
69	7.379	7.361	7.427	VV	281	7219	0.12%	0.013%
70	7.449	7.427	7.477	VV	178	4195	0.07%	0.007%
71	7.505	7.477	7.529	VV	254	5563	0.09%	0.010%
72	7.554	7.529	7.570	VV	249	4643	0.08%	0.008%
73	7.603	7.570	7.661	VV	408	11593	0.19%	0.020%
74	7.666	7.661	7.680	VV	126	1088	0.02%	0.002%
75	7.691	7.680	7.705	VV	123	1202	0.02%	0.002%
76	7.740	7.705	7.760	VV	135	2531	0.04%	0.004%
77	7.775	7.760	7.796	VV	122	1684	0.03%	0.003%
78	7.805	7.796	7.837	PV	73	680	0.01%	0.001%
79	8.215	8.201	8.265	VV	1058	33809	0.55%	0.059%
80	8.274	8.265	8.288	VV	706	9447	0.15%	0.017%
81	8.304	8.288	8.332	VV	758	18302	0.30%	0.032%
82	8.341	8.332	8.368	VV	701	13899	0.23%	0.024%
83	8.394	8.368	8.415	VV	1069	22196	0.36%	0.039%
84	8.424	8.415	8.446	VV	711	11527	0.19%	0.020%
85	8.487	8.446	8.581	VV	1113	50389	0.82%	0.089%
86	8.637	8.581	8.693	VV	663	26788	0.44%	0.047%
87	8.717	8.693	8.756	VV	411	10490	0.17%	0.018%
88	9.148	9.134	9.164	VV	1099	18413	0.30%	0.032%
89	9.173	9.164	9.193	VV	1083	16850	0.28%	0.030%

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rteres

90	9.227	9.193	9.280	VV	1272	46894	0.77%	0.082%
91	9.313	9.280	9.349	VV	1399	36462		
92	9.358	9.349	9.373	VV	529	7157		
93	9.383	9.373	9.431	VV	496	13929		
94	9.445	9.431	9.477	VV	331	7813		
95	9.489	9.477	9.511	VV	296	5882		
96	9.513	9.511	9.538	VV	296	3515	0.06%	0.006%
97	9.544	9.538	9.591	VV	234	4914	0.08%	0.009%
98	9.613	9.591	9.638	VV	246	5103	0.08%	0.009%
99	9.697	9.638	9.741	VV	699	25492	0.42%	0.045%
100	9.768	9.741	9.803	VV	422	11519	0.19%	0.020%
101	9.816	9.803	9.831	VV	219	3168	0.05%	0.006%
102	9.841	9.831	9.851	VV	255	2311	0.04%	0.004%
103	9.863	9.851	9.909	VV	263	4867	0.08%	0.009%
104	9.930	9.909	9.942	VV	388	4464	0.07%	0.008%
105	9.981	9.942	10.068	VV	13678	299146	4.89%	0.526%
106	10.090	10.068	10.200	VV	1923	60800	0.99%	0.107%
107	10.208	10.200	10.241	VV	387	6204	0.10%	0.011%
108	10.246	10.241	10.257	VV	240	1935	0.03%	0.003%
109	10.281	10.257	10.306	VV	310	6466	0.11%	0.011%
110	10.319	10.306	10.394	VV	167	4767	0.08%	0.008%
111	10.443	10.394	10.454	PV	412	7649	0.13%	0.013%
112	10.478	10.454	10.519	VV	635	13173	0.22%	0.023%
113	10.571	10.519	10.604	VV	303	9916	0.16%	0.017%
114	10.620	10.604	10.656	VV	356	4885	0.08%	0.009%
115	10.718	10.656	10.727	PV	239	4154	0.07%	0.007%
116	10.751	10.727	10.780	VV	484	9401	0.15%	0.017%
117	10.828	10.780	10.874	VV	1452	26409	0.43%	0.046%
118	10.900	10.874	10.923	VV	979	15141	0.25%	0.027%
119	10.935	10.923	10.990	VV	265	7121	0.12%	0.013%
120	11.050	10.990	11.089	PV	457	9092	0.15%	0.016%
121	11.128	11.089	11.188	VV	1346	42389	0.69%	0.075%
122	11.211	11.188	11.266	VV	726	23968	0.39%	0.042%
123	11.277	11.266	11.298	VV	317	5221	0.09%	0.009%
124	11.300	11.298	11.353	VV	279	6125	0.10%	0.011%
125	11.367	11.353	11.392	VV	138	2112	0.03%	0.004%
126	11.423	11.392	11.441	PV	207	4060	0.07%	0.007%
127	11.463	11.441	11.491	VV	1324	18915	0.31%	0.033%
128	11.531	11.491	11.583	VV	2323	39366	0.64%	0.069%
129	11.621	11.583	11.666	VV	1226	22273	0.36%	0.039%
130	11.694	11.666	11.714	VV	207	2609	0.04%	0.005%
131	11.730	11.714	11.758	VV	323	3125	0.05%	0.005%
132	11.773	11.758	11.788	PV	238	2283	0.04%	0.004%
133	11.853	11.788	11.981	PV	563142	6112357	100.00%	10.750%
134	11.987	11.981	12.004	VV	694	7927	0.13%	0.014%
135	12.022	12.004	12.045	VV	814	14299	0.23%	0.025%
136	12.054	12.045	12.074	VV	501	6029	0.10%	0.011%
137	12.091	12.074	12.118	VV	418	7616	0.12%	0.013%
138	12.137	12.118	12.158	VV	548	6667	0.11%	0.012%
139	12.200	12.158	12.251	VV	1419	25427	0.42%	0.045%
140	12.264	12.251	12.277	VV	172	2080	0.03%	0.004%
141	12.308	12.277	12.376	PV	627	17588	0.29%	0.031%

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rteres

142	12.406	12.376	12.434	PV	380	7164	0.12%	0.013%
143	12.458	12.434	12.620	VV	45384	639379	10	
144	12.641	12.620	12.679	VV	922	24335		
145	12.699	12.679	12.744	VV	377	10594		
146	12.774	12.744	12.788	VV	583	10744		
147	12.807	12.788	12.817	VV	683	10848		
148	12.838	12.817	12.886	VV	2156	36206	0.59%	0.064%
149	12.927	12.886	13.004	VV	3926	87191	1.43%	0.153%
150	13.027	13.004	13.068	VV	164	3722	0.06%	0.007%
151	13.100	13.068	13.146	VV	548	13983	0.23%	0.025%
152	13.163	13.146	13.174	VV	260	2985	0.05%	0.005%
153	13.225	13.174	13.254	PV	3422	62645	1.02%	0.110%
154	13.286	13.254	13.381	VV	379326	4617742	75.55%	8.122%
155	13.392	13.381	13.424	VV	1014	19357	0.32%	0.034%
156	13.449	13.424	13.469	VV	1993	30438	0.50%	0.054%
157	13.515	13.469	13.555	VV	1163	52919	0.87%	0.093%
158	13.565	13.555	13.594	VV	857	16994	0.28%	0.030%
159	13.608	13.594	13.647	VV	533	10917	0.18%	0.019%
160	13.687	13.647	13.776	VV	7107	133464	2.18%	0.235%
161	13.828	13.776	13.855	VV	729	22589	0.37%	0.040%
162	13.874	13.855	13.907	VV	455	9668	0.16%	0.017%
163	13.987	13.907	14.011	VV	1186	32118	0.53%	0.056%
164	14.034	14.011	14.074	VV	4136	63959	1.05%	0.112%
165	14.091	14.074	14.118	VV	1176	18374	0.30%	0.032%
166	14.151	14.118	14.208	VV	401	13095	0.21%	0.023%
167	14.266	14.208	14.290	PV	491	13324	0.22%	0.023%
168	14.302	14.290	14.344	VV	281	4657	0.08%	0.008%
169	14.362	14.344	14.381	PV	201	2461	0.04%	0.004%
170	14.439	14.381	14.456	PV	1286	25829	0.42%	0.045%
171	14.471	14.456	14.498	VV	1371	20140	0.33%	0.035%
172	14.543	14.498	14.568	VV	841	18746	0.31%	0.033%
173	14.595	14.568	14.623	VV	2690	36362	0.59%	0.064%
174	14.658	14.623	14.684	VV	1253	25599	0.42%	0.045%
175	14.707	14.684	14.732	VV	595	11913	0.19%	0.021%
176	14.760	14.732	14.772	VV	375	7158	0.12%	0.013%
177	14.800	14.772	14.823	VV	686	14525	0.24%	0.026%
178	14.843	14.823	14.864	VV	620	10946	0.18%	0.019%
179	14.878	14.864	14.908	VV	350	6561	0.11%	0.012%
180	14.922	14.908	14.930	VV	137	1477	0.02%	0.003%
181	14.947	14.930	14.957	VV	242	2979	0.05%	0.005%
182	14.990	14.957	15.008	VV	633	11207	0.18%	0.020%
183	15.022	15.008	15.038	VV	209	3068	0.05%	0.005%
184	15.135	15.038	15.168	PV	4603	115072	1.88%	0.202%
185	15.184	15.168	15.250	VV	2519	52129	0.85%	0.092%
186	15.267	15.250	15.303	VV	742	12570	0.21%	0.022%
187	15.331	15.303	15.353	VV	477	7442	0.12%	0.013%
188	15.519	15.353	15.594	PV	17710	341236	5.58%	0.600%
189	15.611	15.594	15.628	VV	610	10678	0.17%	0.019%
190	15.654	15.628	15.693	VV	3501	57941	0.95%	0.102%
191	15.725	15.693	15.763	VV	8086	116473	1.91%	0.205%
192	15.786	15.763	15.811	VV	881	13778	0.23%	0.024%
193	15.838	15.811	15.854	VV	368	4357	0.07%	0.008%
194	15.878	15.854	15.898	PV	383	6467	0.11%	0.011%

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195	15.969	15.898	16.010	VV	802	38304	0.63%	0.067%
196	16.046	16.010	16.095	VV	1014	34957		
197	16.120	16.095	16.130	VV	1220	18172		
198	16.155	16.130	16.184	VV	4747	71855		
199	16.222	16.184	16.263	VV	1160	33303		
200	16.286	16.263	16.311	VV	367	5947		
201	16.357	16.311	16.369	PV	670	16569	0.27%	0.029%
202	16.375	16.369	16.399	VV	368	3861	0.06%	0.007%
203	16.536	16.399	16.574	PV	3504	86594	1.42%	0.152%
204	16.636	16.574	16.658	VV	3427	60915	1.00%	0.107%
205	16.679	16.658	16.689	VV	2016	26619	0.44%	0.047%
206	16.711	16.689	16.748	VV	3825	69071	1.13%	0.121%
207	16.804	16.748	16.815	VV	880	20858	0.34%	0.037%
208	16.845	16.815	16.879	VV	843	21775	0.36%	0.038%
209	16.994	16.879	17.034	PV	1617	45611	0.75%	0.080%
210	17.104	17.034	17.130	VV	8534	166416	2.72%	0.293%
211	17.151	17.130	17.168	VV	4428	67073	1.10%	0.118%
212	17.185	17.168	17.234	VV	4041	64065	1.05%	0.113%
213	17.344	17.234	17.362	PV	1386	44824	0.73%	0.079%
214	17.435	17.362	17.454	VV	2104	63327	1.04%	0.111%
215	17.485	17.454	17.501	VV	4391	95584	1.56%	0.168%
216	17.513	17.501	17.527	VV	3084	43296	0.71%	0.076%
217	17.553	17.527	17.601	VV	8779	171966	2.81%	0.302%
218	17.629	17.601	17.644	VV	2285	46385	0.76%	0.082%
219	17.664	17.644	17.687	VV	2562	50183	0.82%	0.088%
220	17.722	17.687	17.733	VV	1692	35963	0.59%	0.063%
221	17.747	17.733	17.775	VV	1333	26693	0.44%	0.047%
222	17.783	17.775	17.798	VV	801	5651	0.09%	0.010%
223	17.839	17.798	17.851	PV	1137	23815	0.39%	0.042%
224	17.883	17.851	17.898	VV	1803	35179	0.58%	0.062%
225	17.989	17.898	18.023	VV	10275	267189	4.37%	0.470%
226	18.036	18.023	18.044	VV	1869	21649	0.35%	0.038%
227	18.082	18.044	18.103	VV	6050	125394	2.05%	0.221%
228	18.128	18.103	18.188	VV	7521	225088	3.68%	0.396%
229	18.223	18.188	18.238	VV	3433	91087	1.49%	0.160%
230	18.311	18.238	18.327	VV	6812	215313	3.52%	0.379%
231	18.357	18.327	18.387	VV	10407	274181	4.49%	0.482%
232	18.413	18.387	18.448	VV	12865	280721	4.59%	0.494%
233	18.497	18.448	18.554	VV	8902	382691	6.26%	0.673%
234	18.574	18.554	18.591	VV	4195	84369	1.38%	0.148%
235	18.696	18.591	18.761	VV	7545	541439	8.86%	0.952%
236	18.819	18.761	18.852	VV	14358	459621	7.52%	0.808%
237	18.922	18.852	18.944	VV	12482	447316	7.32%	0.787%
238	18.968	18.944	19.007	VV	9492	316833	5.18%	0.557%
239	19.020	19.007	19.034	VV	7777	118951	1.95%	0.209%
240	19.098	19.034	19.108	VV	8671	344410	5.63%	0.606%
241	19.143	19.108	19.153	VV	8388	223090	3.65%	0.392%
242	19.221	19.153	19.276	VV	16022	884892	14.48%	1.556%
243	19.319	19.276	19.337	VV	12734	411111	6.73%	0.723%
244	19.349	19.337	19.358	VV	12056	145719	2.38%	0.256%
245	19.373	19.358	19.411	VV	12458	373661	6.11%	0.657%
246	19.422	19.411	19.432	VV	12314	149545	2.45%	0.263%

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Instrument :
FID_E
ClientSampleId :
RES-BUILDING-PAD-NO-11

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/04/2024
Supervised By :Ankita Jodhani 11/04/2024

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rteres

247	19.437	19.432	19.454	VV	11583	149583	2.45%	0.263%
248	19.471	19.454	19.488	VV	11160	219354	3	
249	19.526	19.488	19.541	VV	12885	366259	5	
250	19.617	19.541	19.651	VV	17060	946667	15	
251	19.676	19.651	19.694	VV	16781	385424	6	
252	19.716	19.694	19.742	VV	17009	435739	7	
253	19.753	19.742	19.769	VV	13226	209028	3.42%	0.368%
254	19.792	19.769	19.804	VV	14659	292510	4.79%	0.514%
255	19.892	19.804	19.915	VV	19178	1089180	17.82%	1.916%
256	19.952	19.915	20.001	VV	26195	1136251	18.59%	1.998%
257	20.015	20.001	20.061	VV	20874	694697	11.37%	1.222%
258	20.163	20.061	20.176	VV	23744	1412825	23.11%	2.485%
259	20.248	20.176	20.269	VV	27327	1376321	22.52%	2.421%
260	20.349	20.269	20.373	VV	29733	1638946	26.81%	2.883%
261	20.407	20.373	20.457	VV	29590	1411402	23.09%	2.482%
262	20.507	20.457	20.524	VV	31179	1122995	18.37%	1.975%
263	20.549	20.524	20.557	VV	28741	561876	9.19%	0.988%
264	20.622	20.557	20.631	VV	33441	1362719	22.29%	2.397%
265	20.646	20.631	20.674	VV	33661	855472	14.00%	1.505%
266	20.702	20.674	20.726	VV	33569	1003027	16.41%	1.764%
267	20.738	20.726	20.763	VV	31918	688285	11.26%	1.211%
268	20.883	20.763	21.008	VV	33673	4505548	73.71%	7.924%
269	21.027	21.008	21.036	VV	25093	413804	6.77%	0.728%
270	21.116	21.036	21.185	VV	30096	2505462	40.99%	4.407%
271	21.194	21.185	21.211	VV	26490	399131	6.53%	0.702%
272	21.229	21.211	21.245	VV	26549	526457	8.61%	0.926%
273	21.272	21.245	21.361	VV	26161	1612500	26.38%	2.836%
274	21.431	21.361	21.446	VV	22699	1096456	17.94%	1.928%
275	21.462	21.446	21.558	VV	22880	1319765	21.59%	2.321%
276	21.605	21.558	21.678	VV	17594	1159425	18.97%	2.039%
277	21.789	21.678	21.920	VV	15915	1969070	32.21%	3.463%
278	21.939	21.920	22.016	VV	10715	492842	8.06%	0.867%
279	22.126	22.016	22.158	VV	8970	650303	10.64%	1.144%
280	22.168	22.158	22.317	VV	8058	425720	6.96%	0.749%
281	22.327	22.317	22.340	VV	1277	10164	0.17%	0.018%
282	22.357	22.340	22.380	VV	321	1662	0.03%	0.003%

Sum of corrected areas: 56857249

Aliphatic EPH 100824.M Mon Nov 04 04:39:31 2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE110124AL\
Data File : FE050987.D
Signal(s) : FID1B.ch
Acq On : 02 Nov 2024 03:37
Operator : YP\AJ
Sample : P4663-06
Misc :
ALS Vial : 31 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
RES-BUILDING-PAD-NO-3

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 11/04/2024
Supervised By :Ankita Jodhani 11/04/2024

Integration File: sample.E
Quant Time: Nov 04 03:12:58 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 100824.M
Quant Title : GC Extractables
QLast Update : Mon Oct 07 16:32:18 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
9) S ortho-Terphenyl (SURR)	11.854	7023173	44.548 ug/mlm
Spiked Amount 50.000		Recovery =	89.10%
12) S 1-chlorooctadecane (S...	13.286	5294133	44.754 ug/mlm
Spiked Amount 50.000		Recovery =	89.51%
Target Compounds			

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

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE110124AL\
Data File : FE050987.D
Signal(s) : FID1B.ch
Acq On : 02 Nov 2024 03:37
Operator : YP\AJ
Sample : P4663-06
Misc :
ALS Vial : 31 Sample Multiplier: 1

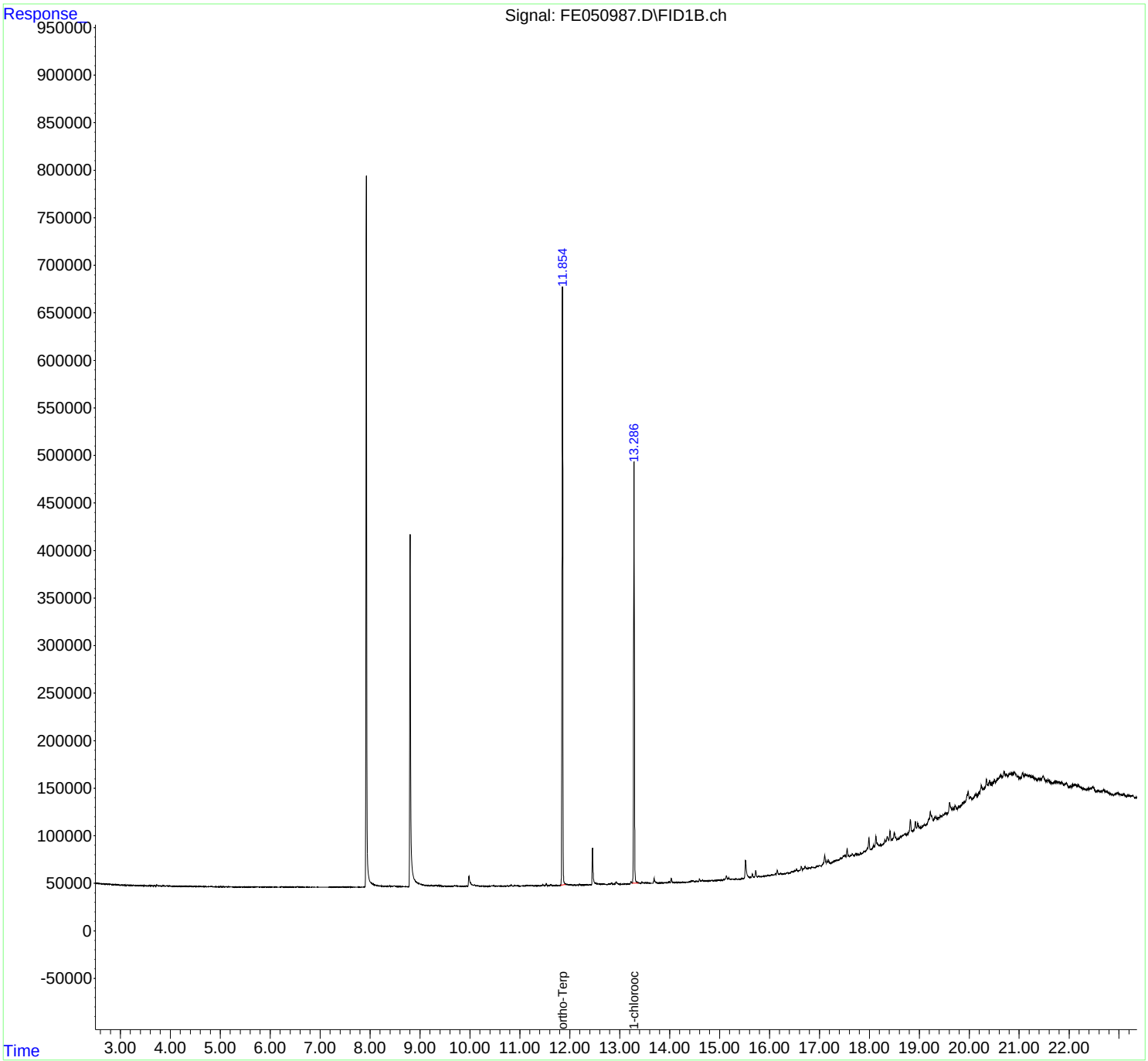
Integration File: sample.E
Quant Time: Nov 04 03:12:58 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 100824.
Quant Title : GC Extractables
QLast Update : Mon Oct 07 16:32:18 2024
Response via : Initial Calibration
Integrator: ChemStation

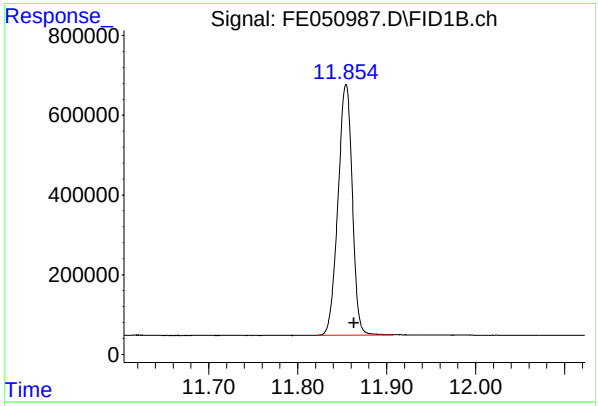
Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

Instrument :
FID_E
ClientSampleId :
RES-BUILDING-PAD-NO-3

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/04/2024
Supervised By :Ankita Jodhani 11/04/2024





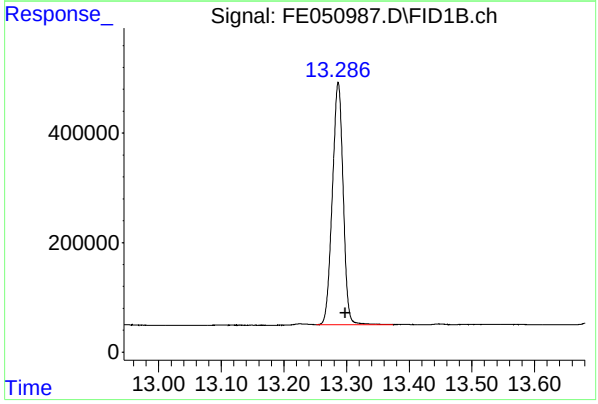
#9 ortho-Terphenyl (SURR)

R.T.: 11.854 min
Delta R.T.: -0.009 min
Response: 7023173
Conc: 44.55 ug/ml

Instrument :
FID_E
ClientSampleId :
RES-BUILDING-PAD-NO-3

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/04/2024
Supervised By :Ankita Jodhani 11/04/2024



#12 1-chlorooctadecane (SURR)

R.T.: 13.286 min
Delta R.T.: -0.012 min
Response: 5294133
Conc: 44.75 ug/ml m

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Instrument :
FID_E
ClientSampleId :
RES-BUILDING-PAD-NO-3

rteres

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/04/2024
Supervised By :Ankita Jodhani 11/04/2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE11012
Data File : FE050987.D
Signal(s) : FID1B.ch
Acq On : 02 Nov 2024 03:37
Sample : P4663-06
Misc :
ALS Vial : 31 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 100824.M
Title : GC Extractables

Signal : FID1B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.240	3.205	3.289	BV	149	2607	0.04%	0.002%
2	3.301	3.289	3.341	PV	134	1610	0.02%	0.001%
3	3.362	3.341	3.418	VV	214	4997	0.07%	0.003%
4	3.429	3.418	3.485	VV	177	4218	0.06%	0.003%
5	3.492	3.485	3.521	VV	78	1102	0.02%	0.001%
6	3.533	3.521	3.562	VV	92	1894	0.03%	0.001%
7	3.573	3.562	3.619	VV	187	3791	0.05%	0.002%
8	3.631	3.619	3.659	VV	129	2097	0.03%	0.001%
9	3.688	3.659	3.707	PV	233	4136	0.06%	0.003%
10	3.729	3.707	3.822	VV	1275	23310	0.33%	0.014%
11	3.850	3.822	3.907	PV	679	13501	0.19%	0.008%
12	3.926	3.907	3.983	VV	287	6469	0.09%	0.004%
13	3.991	3.983	4.103	VV	127	2089	0.03%	0.001%
14	4.112	4.103	4.128	VV	82	517	0.01%	0.000%
15	4.134	4.128	4.178	PV	57	994	0.01%	0.001%
16	4.195	4.178	4.206	VV	115	1078	0.02%	0.001%
17	4.225	4.206	4.231	VV	85	1127	0.02%	0.001%
18	4.239	4.231	4.255	VV	152	1447	0.02%	0.001%
19	4.259	4.255	4.291	VV	141	2863	0.04%	0.002%
20	4.314	4.291	4.332	VV	204	4068	0.06%	0.002%
21	4.355	4.332	4.375	VV	325	4850	0.07%	0.003%
22	4.383	4.375	4.406	VV	167	2260	0.03%	0.001%
23	4.423	4.406	4.469	VV	238	4228	0.06%	0.003%
24	4.494	4.469	4.518	VV	249	4313	0.06%	0.003%
25	4.525	4.518	4.569	VV	150	3691	0.05%	0.002%
26	4.577	4.569	4.597	VV	145	1724	0.02%	0.001%
27	4.606	4.597	4.629	VV	210	2334	0.03%	0.001%
28	4.669	4.629	4.725	PV	260	7107	0.10%	0.004%
29	4.736	4.725	4.765	VV	119	1898	0.03%	0.001%
30	4.780	4.765	4.831	VV	165	5082	0.07%	0.003%
31	4.844	4.831	4.882	VV	172	3828	0.05%	0.002%
32	4.893	4.882	4.904	VV	125	1490	0.02%	0.001%
33	4.914	4.904	4.923	VV	147	1258	0.02%	0.001%
34	4.938	4.923	4.991	VV	191	5042	0.07%	0.003%
35	5.000	4.991	5.012	VV	155	1296	0.02%	0.001%
36	5.021	5.012	5.061	VV	116	2901	0.04%	0.002%

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Instrument :
FID_E
ClientSampleId :
RES-BUILDING-PAD-NO-3

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/04/2024
Supervised By :Ankita Jodhani 11/04/2024

A B C D E F G H I J

					rteres			
37	5.072	5.061	5.118	VV	173	3003	0.04%	0.002%
38	5.155	5.118	5.228	VV	177	5883	0	
39	5.234	5.228	5.242	VV	82	651	0	
40	5.248	5.242	5.268	VV	86	920	0	
41	5.284	5.268	5.295	PV	83	909	0	
42	5.302	5.295	5.307	VV	68	392	0	
43	5.316	5.307	5.403	VV	138	2908	0.04%	0.002%
44	5.428	5.403	5.455	VV	108	2603	0.04%	0.002%
45	5.470	5.455	5.565	VV	162	6298	0.09%	0.004%
46	5.578	5.565	5.591	VV	96	825	0.01%	0.001%
47	5.595	5.591	5.609	VV	75	490	0.01%	0.000%
48	5.631	5.609	5.707	VV	214	5603	0.08%	0.003%
49	5.726	5.707	5.801	VV	410	11622	0.16%	0.007%
50	5.818	5.801	5.846	VV	225	4316	0.06%	0.003%
51	5.858	5.846	5.877	VV	163	2274	0.03%	0.001%
52	5.904	5.877	5.966	VV	208	8069	0.11%	0.005%
53	5.978	5.966	5.993	VV	158	1839	0.03%	0.001%
54	6.009	5.993	6.046	VV	171	3289	0.05%	0.002%
55	6.055	6.046	6.075	PV	75	717	0.01%	0.000%
56	6.078	6.075	6.088	VV	86	352	0.00%	0.000%
57	6.116	6.088	6.193	VV	114	3632	0.05%	0.002%
58	6.229	6.193	6.253	VV	341	8081	0.11%	0.005%
59	6.261	6.253	6.291	VV	231	4160	0.06%	0.003%
60	6.301	6.291	6.348	VV	227	6033	0.08%	0.004%
61	6.374	6.348	6.441	VV	261	9033	0.13%	0.006%
62	6.478	6.441	6.491	VV	184	3601	0.05%	0.002%
63	6.550	6.491	6.614	VV	539	14850	0.21%	0.009%
64	6.633	6.614	6.648	VV	177	2852	0.04%	0.002%
65	6.658	6.648	6.703	VV	205	4110	0.06%	0.003%
66	6.722	6.703	6.798	VV	161	5219	0.07%	0.003%
67	6.817	6.798	6.835	VV	149	2523	0.04%	0.002%
68	6.849	6.835	6.883	VV	186	3422	0.05%	0.002%
69	6.888	6.883	6.895	VV	118	744	0.01%	0.000%
70	6.902	6.895	6.913	VV	97	881	0.01%	0.001%
71	6.953	6.913	7.041	VV	201	6083	0.09%	0.004%
72	7.077	7.041	7.170	PV	132	6014	0.08%	0.004%
73	7.204	7.170	7.321	VV	327	19809	0.28%	0.012%
74	7.380	7.321	7.460	VV	350	18361	0.26%	0.011%
75	7.473	7.460	7.515	VV	245	7154	0.10%	0.004%
76	7.524	7.515	7.575	VV	263	8207	0.12%	0.005%
77	7.584	7.575	7.591	VV	202	1893	0.03%	0.001%
78	7.606	7.591	7.670	VV	388	10056	0.14%	0.006%
79	7.681	7.670	7.748	VV	175	5084	0.07%	0.003%
80	7.784	7.748	7.819	VV	224	5834	0.08%	0.004%
81	7.835	7.819	7.854	VV	124	1648	0.02%	0.001%
82	8.236	8.231	8.261	VV	1150	19032	0.27%	0.012%
83	8.270	8.261	8.295	VV	990	18264	0.26%	0.011%
84	8.303	8.295	8.342	VV	963	24033	0.34%	0.015%
85	8.356	8.342	8.367	VV	795	11472	0.16%	0.007%
86	8.393	8.367	8.444	VV	1166	39528	0.56%	0.024%
87	8.486	8.444	8.566	VV	1352	56788	0.80%	0.035%
88	8.632	8.566	8.686	VV	534	30923	0.44%	0.019%
89	8.705	8.686	8.720	VV	344	5649	0.08%	0.003%

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Instrument :
FID_E
ClientSampleId :
RES-BUILDING-PAD-NO-3

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/04/2024
Supervised By :Ankita Jodhani 11/04/2024

A B C D E F G H I J

rteres

90	8.730	8.720	8.774	VV	276	6844	0.10%	0.004%
91	9.167	9.159	9.205	VV	1238	31874		
92	9.227	9.205	9.280	VV	1501	53376		
93	9.314	9.280	9.350	VV	1630	51791		
94	9.374	9.350	9.406	VV	1413	35962		
95	9.419	9.406	9.487	VV	970	33152		
96	9.498	9.487	9.575	VV	561	21322	0.30%	0.013%
97	9.600	9.575	9.629	VV	376	10244	0.14%	0.006%
98	9.687	9.629	9.746	VV	796	35720	0.50%	0.022%
99	9.762	9.746	9.833	VV	493	19021	0.27%	0.012%
100	9.865	9.833	9.894	VV	346	9076	0.13%	0.006%
101	9.928	9.894	9.951	VV	387	7742	0.11%	0.005%
102	9.982	9.951	10.070	VV	10950	257885	3.63%	0.158%
103	10.090	10.070	10.133	VV	1828	43776	0.62%	0.027%
104	10.144	10.133	10.188	VV	565	16177	0.23%	0.010%
105	10.205	10.188	10.248	VV	518	13038	0.18%	0.008%
106	10.264	10.248	10.314	VV	324	8772	0.12%	0.005%
107	10.326	10.314	10.341	VV	213	3108	0.04%	0.002%
108	10.349	10.341	10.378	VV	168	3689	0.05%	0.002%
109	10.446	10.378	10.460	VV	691	16364	0.23%	0.010%
110	10.477	10.460	10.507	VV	670	12279	0.17%	0.008%
111	10.533	10.507	10.555	VV	313	7906	0.11%	0.005%
112	10.567	10.555	10.601	VV	366	7458	0.10%	0.005%
113	10.626	10.601	10.670	VV	303	6125	0.09%	0.004%
114	10.753	10.670	10.777	PV	608	15460	0.22%	0.009%
115	10.829	10.777	10.873	VV	1274	26679	0.38%	0.016%
116	10.900	10.873	10.920	VV	737	11606	0.16%	0.007%
117	10.947	10.920	11.008	VV	294	8130	0.11%	0.005%
118	11.049	11.008	11.079	VV	392	7047	0.10%	0.004%
119	11.138	11.079	11.191	PV	781	27097	0.38%	0.017%
120	11.218	11.191	11.268	VV	443	12898	0.18%	0.008%
121	11.280	11.268	11.365	VV	219	6068	0.09%	0.004%
122	11.416	11.365	11.437	PV	120	1979	0.03%	0.001%
123	11.464	11.437	11.488	VV	1470	18113	0.25%	0.011%
124	11.532	11.488	11.581	VV	2253	36549	0.51%	0.022%
125	11.620	11.581	11.662	VV	916	17802	0.25%	0.011%
126	11.697	11.662	11.711	PV	203	3287	0.05%	0.002%
127	11.726	11.711	11.758	VV	265	3598	0.05%	0.002%
128	11.772	11.758	11.794	PV	230	2439	0.03%	0.001%
129	11.854	11.794	11.974	PV	630859	7107733	100.00%	4.357%
130	11.986	11.974	12.009	VV	782	13525	0.19%	0.008%
131	12.022	12.009	12.078	VV	526	14378	0.20%	0.009%
132	12.095	12.078	12.117	VV	311	4923	0.07%	0.003%
133	12.138	12.117	12.158	VV	431	5727	0.08%	0.004%
134	12.199	12.158	12.241	VV	1356	22295	0.31%	0.014%
135	12.254	12.241	12.271	VV	195	2565	0.04%	0.002%
136	12.303	12.271	12.368	PV	501	14292	0.20%	0.009%
137	12.404	12.368	12.429	VV	465	9688	0.14%	0.006%
138	12.457	12.429	12.511	VV	38743	507181	7.14%	0.311%
139	12.524	12.511	12.571	VV	1873	47887	0.67%	0.029%
140	12.580	12.571	12.633	VV	1037	27623	0.39%	0.017%
141	12.657	12.633	12.667	VV	701	12643	0.18%	0.008%

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Instrument :
FID_E
ClientSampleId :
RES-BUILDING-PAD-NO-3

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/04/2024
Supervised By :Ankita Jodhani 11/04/2024

A B C D E F G H I J

rteres

142	12.680	12.667	12.747	VV	777	18513	0.26%	0.011%
143	12.777	12.747	12.788	VV	585	10117		
144	12.838	12.788	12.891	VV	1891	41434		
145	12.928	12.891	13.005	VV	2953	70047		
146	13.046	13.005	13.067	VV	196	4678		
147	13.097	13.067	13.184	VV	462	17715		
148	13.226	13.184	13.251	PV	2647	47383	0.67%	0.029%
149	13.287	13.251	13.378	VV	443342	5369400	75.54%	3.292%
150	13.393	13.378	13.426	VV	1228	27565	0.39%	0.017%
151	13.448	13.426	13.469	VV	2034	31928	0.45%	0.020%
152	13.487	13.469	13.508	VV	1044	22149	0.31%	0.014%
153	13.535	13.508	13.652	VV	1209	58607	0.82%	0.036%
154	13.688	13.652	13.781	VV	5349	105110	1.48%	0.064%
155	13.830	13.781	13.845	VV	515	13678	0.19%	0.008%
156	13.851	13.845	13.861	VV	384	3351	0.05%	0.002%
157	13.873	13.861	13.918	VV	387	8656	0.12%	0.005%
158	13.929	13.918	13.940	VV	296	3012	0.04%	0.002%
159	13.990	13.940	14.010	VV	1325	26738	0.38%	0.016%
160	14.034	14.010	14.121	VV	4566	77386	1.09%	0.047%
161	14.155	14.121	14.175	VV	357	7722	0.11%	0.005%
162	14.183	14.175	14.218	VV	245	3495	0.05%	0.002%
163	14.267	14.218	14.288	PV	338	8259	0.12%	0.005%
164	14.301	14.288	14.314	VV	240	2425	0.03%	0.001%
165	14.331	14.314	14.343	VV	165	1680	0.02%	0.001%
166	14.364	14.343	14.378	PV	243	2868	0.04%	0.002%
167	14.440	14.378	14.455	VV	1228	27682	0.39%	0.017%
168	14.470	14.455	14.498	VV	1422	24046	0.34%	0.015%
169	14.541	14.498	14.571	VV	879	19190	0.27%	0.012%
170	14.597	14.571	14.620	VV	2941	39318	0.55%	0.024%
171	14.658	14.620	14.690	VV	1101	27746	0.39%	0.017%
172	14.706	14.690	14.751	VV	554	14172	0.20%	0.009%
173	14.756	14.751	14.773	VV	389	2851	0.04%	0.002%
174	14.799	14.773	14.812	PV	461	6795	0.10%	0.004%
175	14.846	14.812	14.885	VV	477	12907	0.18%	0.008%
176	14.911	14.885	14.925	VV	198	3851	0.05%	0.002%
177	14.949	14.925	14.961	VV	292	3207	0.05%	0.002%
178	14.991	14.961	15.018	VV	509	9948	0.14%	0.006%
179	15.030	15.018	15.045	VV	158	1687	0.02%	0.001%
180	15.135	15.045	15.165	VV	4297	96452	1.36%	0.059%
181	15.184	15.165	15.216	VV	2183	39351	0.55%	0.024%
182	15.233	15.216	15.248	VV	615	10551	0.15%	0.006%
183	15.265	15.248	15.297	VV	540	10342	0.15%	0.006%
184	15.329	15.297	15.364	VV	472	10679	0.15%	0.007%
185	15.409	15.364	15.417	PV	120	2409	0.03%	0.001%
186	15.519	15.417	15.601	PV	19166	376650	5.30%	0.231%
187	15.613	15.601	15.627	VV	936	12384	0.17%	0.008%
188	15.655	15.627	15.694	VV	3860	63667	0.90%	0.039%
189	15.723	15.694	15.760	VV	7235	103980	1.46%	0.064%
190	15.784	15.760	15.816	VV	1147	22406	0.32%	0.014%
191	15.835	15.816	15.848	VV	319	4806	0.07%	0.003%
192	15.878	15.848	15.890	VV	508	7998	0.11%	0.005%
193	15.973	15.890	15.998	VV	775	34427	0.48%	0.021%
194	16.061	15.998	16.086	VV	956	38312	0.54%	0.023%

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Instrument :
FID_E
ClientSampleId :
RES-BUILDING-PAD-NO-3

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/04/2024
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A B C D E F G H I J

rteres

195	16.115	16.086	16.130	VV	1322	26615	0.37%	0.016%
196	16.155	16.130	16.183	VV	5233	84881	1	
197	16.225	16.183	16.249	VV	1562	45935	0	
198	16.295	16.249	16.315	VV	871	29122	0	
199	16.359	16.315	16.387	VV	1213	44117	0	
200	16.450	16.387	16.466	VV	2072	66800	0	
201	16.500	16.466	16.512	VV	2620	59206	0.83%	0.036%
202	16.539	16.512	16.576	VV	4048	115697	1.63%	0.071%
203	16.637	16.576	16.659	VV	6481	179562	2.53%	0.110%
204	16.679	16.659	16.690	VV	3964	66774	0.94%	0.041%
205	16.712	16.690	16.748	VV	5788	154223	2.17%	0.095%
206	16.802	16.748	16.818	VV	4098	163053	2.29%	0.100%
207	16.844	16.818	16.893	VV	4630	189159	2.66%	0.116%
208	16.912	16.893	16.920	VV	4172	65297	0.92%	0.040%
209	16.958	16.920	16.967	VV	4934	130213	1.83%	0.080%
210	16.997	16.967	17.019	VV	5892	163986	2.31%	0.101%
211	17.104	17.019	17.134	VV	15569	569604	8.01%	0.349%
212	17.152	17.134	17.169	VV	10287	182397	2.57%	0.112%
213	17.183	17.169	17.228	VV	9788	284850	4.01%	0.175%
214	17.288	17.228	17.297	VV	8454	315859	4.44%	0.194%
215	17.341	17.297	17.362	VV	9790	341731	4.81%	0.209%
216	17.422	17.362	17.449	VV	10999	519182	7.30%	0.318%
217	17.488	17.449	17.499	VV	13524	368230	5.18%	0.226%
218	17.514	17.499	17.531	VV	13992	252663	3.55%	0.155%
219	17.554	17.531	17.603	VV	20245	628776	8.85%	0.385%
220	17.626	17.603	17.635	VV	12853	234202	3.30%	0.144%
221	17.657	17.635	17.700	VV	14440	510446	7.18%	0.313%
222	17.731	17.700	17.772	VV	14003	572067	8.05%	0.351%
223	17.782	17.772	17.791	VV	13027	146819	2.07%	0.090%
224	17.819	17.791	17.829	VV	14001	302568	4.26%	0.185%
225	17.894	17.829	17.911	VV	15463	702020	9.88%	0.430%
226	17.990	17.911	18.018	VV	29377	1233955	17.36%	0.756%
227	18.037	18.018	18.047	VV	17290	304663	4.29%	0.187%
228	18.083	18.047	18.102	VV	21062	621116	8.74%	0.381%
229	18.131	18.102	18.191	VV	29985	1236956	17.40%	0.758%
230	18.201	18.191	18.210	VV	20498	231329	3.25%	0.142%
231	18.226	18.210	18.248	VV	20789	460022	6.47%	0.282%
232	18.311	18.248	18.325	VV	25652	1015808	14.29%	0.623%
233	18.357	18.325	18.386	VV	28577	962907	13.55%	0.590%
234	18.413	18.386	18.438	VV	34340	879906	12.38%	0.539%
235	18.498	18.438	18.549	VV	32109	1781468	25.06%	1.092%
236	18.585	18.549	18.595	VV	25595	689407	9.70%	0.423%
237	18.704	18.595	18.751	VV	29484	2598292	36.56%	1.593%
238	18.821	18.751	18.851	VV	43702	2008951	28.26%	1.232%
239	18.920	18.851	18.947	VV	41074	1969723	27.71%	1.207%
240	18.970	18.947	19.011	VV	39417	1404033	19.75%	0.861%
241	19.027	19.011	19.038	VV	34846	542962	7.64%	0.333%
242	19.101	19.038	19.124	VV	36973	1847300	25.99%	1.132%
243	19.219	19.124	19.278	VV	50174	3894851	54.80%	2.388%
244	19.317	19.278	19.346	VV	44763	1718138	24.17%	1.053%
245	19.354	19.346	19.365	VV	42730	475414	6.69%	0.291%
246	19.421	19.365	19.438	VV	44928	1899547	26.73%	1.164%

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Instrument :
FID_E
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RES-BUILDING-PAD-NO-3

Manual IntegrationsAPPROVED

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Supervised By :Ankita Jodhani 11/04/2024

A B C D E F G H I J

rteres

247	19.448	19.438	19.455	VV	44813	440810	6.20%	0.270%
248	19.477	19.455	19.489	VV	45597	921872	12	
249	19.526	19.489	19.541	VV	46895	1442652	20	
250	19.606	19.541	19.655	VV	56988	3437084	48	
251	19.675	19.655	19.695	VV	52141	1240863	17	
252	19.719	19.695	19.752	VV	53991	1762915	24	
253	19.789	19.752	19.805	VV	52125	1604257	22.57%	0.983%
254	19.891	19.805	19.901	VV	56764	3138942	44.16%	1.924%
255	19.912	19.901	19.920	VV	56661	626011	8.81%	0.384%
256	19.978	19.920	20.001	VV	67271	3012864	42.39%	1.847%
257	20.024	20.001	20.065	VV	61274	2283287	32.12%	1.400%
258	20.141	20.065	20.167	VV	63191	3755337	52.83%	2.302%
259	20.242	20.167	20.271	VV	71850	4149888	58.39%	2.544%
260	20.344	20.271	20.375	VV	78317	4428076	62.30%	2.714%
261	20.410	20.375	20.426	VV	75773	2266790	31.89%	1.390%
262	20.441	20.426	20.453	VV	73285	1168382	16.44%	0.716%
263	20.478	20.453	20.488	VV	74500	1547496	21.77%	0.949%
264	20.505	20.488	20.528	VV	76970	1770095	24.90%	1.085%
265	20.625	20.528	20.635	VV	80646	4956146	69.73%	3.038%
266	20.645	20.635	20.666	VV	80290	1517030	21.34%	0.930%
267	20.696	20.666	20.725	VV	83942	2836495	39.91%	1.739%
268	20.735	20.725	20.775	VV	81562	2399819	33.76%	1.471%
269	20.809	20.775	20.818	VV	81394	2104838	29.61%	1.290%
270	20.839	20.818	20.868	VV	81087	2397671	33.73%	1.470%
271	20.912	20.868	20.961	VV	82226	4490668	63.18%	2.753%
272	20.974	20.961	21.012	VV	77506	2337840	32.89%	1.433%
273	21.023	21.012	21.041	VV	76031	1319818	18.57%	0.809%
274	21.070	21.041	21.100	VV	80626	2776184	39.06%	1.702%
275	21.121	21.100	21.144	VV	78639	2060425	28.99%	1.263%
276	21.164	21.144	21.178	VV	77839	1560126	21.95%	0.956%
277	21.204	21.178	21.316	VV	77136	6249495	87.93%	3.831%
278	21.324	21.316	21.356	VV	73323	1732851	24.38%	1.062%
279	21.381	21.356	21.411	VV	73247	2406775	33.86%	1.475%
280	21.422	21.411	21.448	VV	72604	1587134	22.33%	0.973%
281	21.484	21.448	21.555	VV	75093	4593355	64.62%	2.816%
282	21.581	21.555	21.664	VV	70260	4504081	63.37%	2.761%
283	21.711	21.664	21.725	VV	68298	2449109	34.46%	1.501%
284	21.748	21.725	21.774	VV	68096	1978199	27.83%	1.213%
285	21.795	21.774	21.840	VV	67403	2656624	37.38%	1.629%
286	21.857	21.840	21.901	VV	66178	2370142	33.35%	1.453%
287	21.943	21.901	22.011	VV	64989	4154681	58.45%	2.547%
288	22.024	22.011	22.035	VV	61672	855750	12.04%	0.525%
289	22.090	22.035	22.123	VV	62763	3272346	46.04%	2.006%
290	22.134	22.123	22.165	VV	61859	1545165	21.74%	0.947%
291	22.181	22.165	22.201	VBA	61655	1444815	20.33%	0.886%

Sum of corrected areas: 163126802

Aliphatic EPH 100824.M Mon Nov 04 04:40:19 2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE110524AL\
Data File : FE051024.D
Signal(s) : FID1B.ch
Acq On : 05 Nov 2024 10:42
Operator : YP\AJ
Sample : P4663-06DL 2X
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
RES-BUILDING-PAD-NO-3DL

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 11/06/2024
Supervised By :Ankita Jodhani 11/06/2024

Integration File: autoint1.e
Quant Time: Nov 05 12:10:31 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 100824.M
Quant Title : GC Extractables
QLast Update : Mon Oct 07 16:32:18 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
9) S ortho-Terphenyl (SURR)	11.851	2766843	17.550 ug/mlm
Spiked Amount 50.000		Recovery =	35.10%
12) S 1-chlorooctadecane (S...	13.285	2006137	16.959 ug/ml
Spiked Amount 50.000		Recovery =	33.92%
Target Compounds			

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

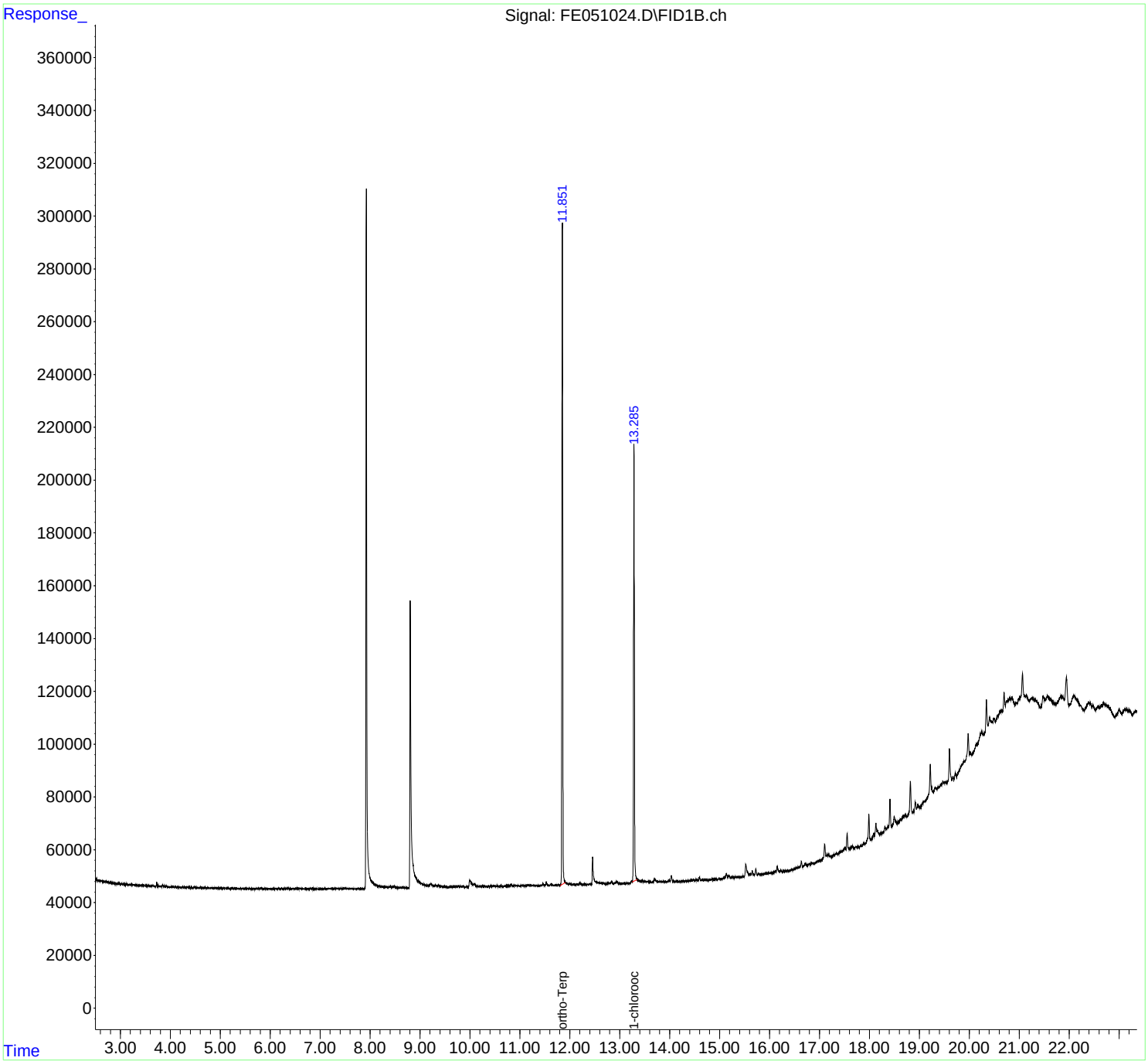
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE110524AL\
Data File : FE051024.D
Signal(s) : FID1B.ch
Acq On : 05 Nov 2024 10:42
Operator : YP\AJ
Sample : P4663-06DL 2X
Misc :
ALS Vial : 3 Sample Multiplier: 1

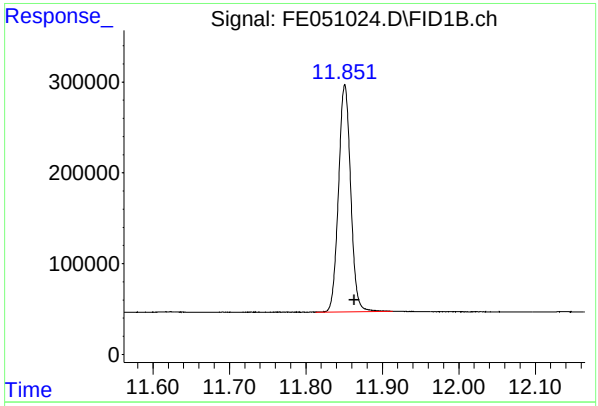
Integration File: autoint1.e
Quant Time: Nov 05 12:10:31 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 100824.
Quant Title : GC Extractables
QLast Update : Mon Oct 07 16:32:18 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

Instrument :
FID_E
ClientSampleId :
RES-BUILDING-PAD-NO-3DL

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 11/06/2024
Supervised By :Ankita Jodhani 11/06/2024





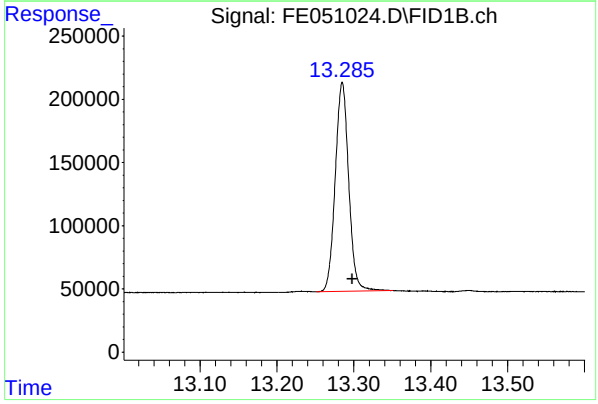
#9 ortho-Terphenyl (SURR)

R.T.: 11.851 min
Delta R.T.: -0.012 min
Response: 2766843
Conc: 17.55 ug/ml

Instrument :
FID_E
ClientSampleId :
RES-BUILDING-PAD-NO-3DL

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/06/2024
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#12 1-chlorooctadecane (SURR)

R.T.: 13.285 min
Delta R.T.: -0.013 min
Response: 2006137
Conc: 16.96 ug/ml

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Instrument :
FID_E
ClientSampleId :
RES-BUILDING-PAD-NO-3DL

rteres

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/06/2024
Supervised By :Ankita Jodhani 11/06/2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE11052
Data File : FE051024.D
Signal(s) : FID1B.ch
Acq On : 05 Nov 2024 10:42
Sample : P4663-06DL 2X
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 100824.M
Title : GC Extractables

Signal : FID1B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.227	3.204	3.282	BV	124	2790	0.04%	0.003%
2	3.295	3.282	3.348	PV	92	3036	0.05%	0.003%
3	3.357	3.348	3.541	VV	127	8169	0.13%	0.009%
4	3.554	3.541	3.572	PV	103	1103	0.02%	0.001%
5	3.583	3.572	3.622	VV	93	1833	0.03%	0.002%
6	3.637	3.622	3.658	VV	124	1464	0.02%	0.002%
7	3.675	3.658	3.704	VV	157	2593	0.04%	0.003%
8	3.726	3.704	3.779	VV	1048	15048	0.23%	0.017%
9	3.791	3.779	3.827	VV	136	2051	0.03%	0.002%
10	3.848	3.827	3.896	VV	475	9723	0.15%	0.011%
11	3.922	3.896	3.955	VV	236	4645	0.07%	0.005%
12	3.965	3.955	4.002	VV	93	2085	0.03%	0.002%
13	4.018	4.002	4.043	PV	108	1411	0.02%	0.002%
14	4.065	4.043	4.084	VV	95	1494	0.02%	0.002%
15	4.108	4.084	4.178	VV	101	2420	0.04%	0.003%
16	4.197	4.178	4.208	PV	56	603	0.01%	0.001%
17	4.217	4.208	4.267	VV	75	2379	0.04%	0.003%
18	4.287	4.267	4.326	VV	141	3035	0.05%	0.003%
19	4.360	4.326	4.432	VV	158	4566	0.07%	0.005%
20	4.439	4.432	4.458	VV	102	808	0.01%	0.001%
21	4.475	4.458	4.541	PV	126	4245	0.07%	0.005%
22	4.548	4.541	4.593	VV	109	2694	0.04%	0.003%
23	4.610	4.593	4.657	VV	236	3764	0.06%	0.004%
24	4.665	4.657	4.738	VV	123	2386	0.04%	0.003%
25	4.751	4.738	4.768	VV	111	960	0.01%	0.001%
26	4.773	4.768	4.798	VV	100	1000	0.02%	0.001%
27	4.804	4.798	4.811	VV	94	530	0.01%	0.001%
28	4.818	4.811	4.834	VV	128	888	0.01%	0.001%
29	4.838	4.834	4.847	VV	105	438	0.01%	0.000%
30	4.871	4.847	4.893	VV	122	1959	0.03%	0.002%
31	4.905	4.893	5.044	VV	152	8482	0.13%	0.010%
32	5.059	5.044	5.139	VV	144	5479	0.08%	0.006%
33	5.157	5.139	5.204	VV	121	2708	0.04%	0.003%
34	5.235	5.204	5.312	PV	139	5633	0.09%	0.006%
35	5.367	5.312	5.391	VV	122	2424	0.04%	0.003%
36	5.409	5.391	5.414	PV	84	571	0.01%	0.001%

Page 1

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Instrument :
FID_E
ClientSampleId :
RES-BUILDING-PAD-NO-3DL

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/06/2024
Supervised By :Ankita Jodhani 11/06/2024

A B C D E F G H I J

					rteres			
37	5.422	5.414	5.428	VV	115	538	0.01%	0.001%
38	5.435	5.428	5.457	VV	94	1018		
39	5.505	5.457	5.524	VV	102	1934		
40	5.538	5.524	5.552	VV	74	1086		
41	5.573	5.552	5.620	VV	116	2163		
42	5.638	5.620	5.652	VV	164	1531		
43	5.671	5.652	5.691	PV	107	1167	0.02%	0.001%
44	5.727	5.691	5.791	VV	176	5528	0.09%	0.006%
45	5.799	5.791	5.805	VV	115	743	0.01%	0.001%
46	5.815	5.805	5.942	VV	132	5949	0.09%	0.007%
47	5.955	5.942	5.989	VV	66	1275	0.02%	0.001%
48	6.033	5.989	6.053	VV	113	1933	0.03%	0.002%
49	6.058	6.053	6.094	VV	56	1069	0.02%	0.001%
50	6.100	6.094	6.172	VV	112	2523	0.04%	0.003%
51	6.225	6.172	6.241	PV	144	2497	0.04%	0.003%
52	6.250	6.241	6.290	VV	166	2892	0.04%	0.003%
53	6.329	6.290	6.346	VV	115	2557	0.04%	0.003%
54	6.366	6.346	6.404	VV	203	4586	0.07%	0.005%
55	6.429	6.404	6.447	VV	131	2083	0.03%	0.002%
56	6.460	6.447	6.474	VV	121	1533	0.02%	0.002%
57	6.494	6.474	6.528	VV	153	3050	0.05%	0.003%
58	6.549	6.528	6.618	VV	291	8154	0.13%	0.009%
59	6.627	6.618	6.636	VV	126	1065	0.02%	0.001%
60	6.660	6.636	6.671	VV	161	2394	0.04%	0.003%
61	6.678	6.671	6.695	VV	119	1271	0.02%	0.001%
62	6.719	6.695	6.741	VV	108	2098	0.03%	0.002%
63	6.749	6.741	6.776	VV	102	1694	0.03%	0.002%
64	6.809	6.776	6.833	VV	135	2611	0.04%	0.003%
65	6.841	6.833	6.869	VV	141	1485	0.02%	0.002%
66	6.890	6.869	6.909	VV	72	1209	0.02%	0.001%
67	6.930	6.909	6.962	PV	143	1687	0.03%	0.002%
68	6.998	6.962	7.037	VV	190	3103	0.05%	0.003%
69	7.053	7.037	7.089	VV	106	1755	0.03%	0.002%
70	7.099	7.089	7.114	VV	131	1116	0.02%	0.001%
71	7.121	7.114	7.171	VV	152	3451	0.05%	0.004%
72	7.234	7.171	7.314	VV	217	12085	0.19%	0.014%
73	7.398	7.314	7.451	VV	275	14789	0.23%	0.017%
74	7.461	7.451	7.488	VV	192	4249	0.07%	0.005%
75	7.510	7.488	7.584	VV	201	11743	0.18%	0.013%
76	7.603	7.584	7.699	VV	283	10003	0.15%	0.011%
77	7.722	7.699	7.751	PV	54	1798	0.03%	0.002%
78	7.770	7.751	7.836	VV	136	3865	0.06%	0.004%
79	8.306	8.291	8.363	VV	710	25464	0.39%	0.029%
80	8.394	8.363	8.432	VV	788	25281	0.39%	0.028%
81	8.482	8.432	8.561	VV	856	40958	0.63%	0.046%
82	8.575	8.561	8.594	VV	356	5871	0.09%	0.007%
83	8.637	8.594	8.770	VV	399	21415	0.33%	0.024%
84	9.218	9.188	9.271	VV	1453	51834	0.80%	0.058%
85	9.313	9.271	9.358	VV	1031	39977	0.62%	0.045%
86	9.374	9.358	9.405	VV	833	19093	0.29%	0.021%
87	9.420	9.405	9.478	VV	578	20369	0.31%	0.023%
88	9.494	9.478	9.634	VV	406	23683	0.36%	0.027%
89	9.698	9.634	9.741	VV	445	18986	0.29%	0.021%

11

Instrument :
FID_E
ClientSampleId :
RES-BUILDING-PAD-NO-3DL

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/06/2024
Supervised By :Ankita Jodhani 11/06/2024

A B C D E F G H I J

rteres

90	9.764	9.741	9.833	VV	326	15452	0.24%	0.017%
91	9.862	9.833	9.888	VV	246	6155		
92	9.929	9.888	9.971	VV	247	6225		
93	10.000	9.971	10.071	VV	2441	84187		
94	10.089	10.071	10.174	VV	1292	37109		
95	10.201	10.174	10.235	VV	248	8231		
96	10.266	10.235	10.401	VV	211	13754	0.21%	0.015%
97	10.478	10.401	10.514	VV	480	16773	0.26%	0.019%
98	10.566	10.514	10.601	VV	291	8261	0.13%	0.009%
99	10.621	10.601	10.669	VV	215	4426	0.07%	0.005%
100	10.752	10.669	10.784	VV	477	14062	0.22%	0.016%
101	10.829	10.784	10.860	VV	873	17111	0.26%	0.019%
102	10.900	10.860	11.003	VV	468	17569	0.27%	0.020%
103	11.047	11.003	11.114	PV	388	11412	0.18%	0.013%
104	11.146	11.114	11.188	VV	372	12109	0.19%	0.014%
105	11.214	11.188	11.263	VV	317	9700	0.15%	0.011%
106	11.311	11.263	11.377	VV	207	8146	0.13%	0.009%
107	11.464	11.377	11.494	PV	1035	17412	0.27%	0.020%
108	11.532	11.494	11.588	VV	1495	26103	0.40%	0.029%
109	11.621	11.588	11.674	VV	505	11146	0.17%	0.013%
110	11.729	11.674	11.748	PV	137	3960	0.06%	0.004%
111	11.776	11.748	11.793	VV	153	2915	0.04%	0.003%
112	11.851	11.793	12.077	VV	250178	2841913	43.77%	3.192%
113	12.096	12.077	12.118	VV	233	4225	0.07%	0.005%
114	12.138	12.118	12.163	VV	532	7558	0.12%	0.008%
115	12.200	12.163	12.281	VV	952	19213	0.30%	0.022%
116	12.301	12.281	12.344	VV	203	4380	0.07%	0.005%
117	12.355	12.344	12.372	VV	148	1487	0.02%	0.002%
118	12.420	12.372	12.431	VV	228	5190	0.08%	0.006%
119	12.458	12.431	12.565	VV	10224	192302	2.96%	0.216%
120	12.582	12.565	12.638	VV	726	24268	0.37%	0.027%
121	12.660	12.638	12.751	VV	467	21169	0.33%	0.024%
122	12.780	12.751	12.798	VV	464	8963	0.14%	0.010%
123	12.839	12.798	12.891	VV	1231	25302	0.39%	0.028%
124	12.938	12.891	13.014	VV	887	30209	0.47%	0.034%
125	13.036	13.014	13.068	PV	108	2546	0.04%	0.003%
126	13.111	13.068	13.144	PV	173	6121	0.09%	0.007%
127	13.162	13.144	13.181	VV	181	2993	0.05%	0.003%
128	13.285	13.181	13.424	VV	165878	2126236	32.75%	2.388%
129	13.449	13.424	13.485	VV	1449	29666	0.46%	0.033%
130	13.513	13.485	13.657	VV	633	44642	0.69%	0.050%
131	13.695	13.657	13.784	VV	1403	45835	0.71%	0.051%
132	13.874	13.784	13.924	VV	351	22470	0.35%	0.025%
133	13.986	13.924	14.007	VV	730	18452	0.28%	0.021%
134	14.034	14.007	14.144	VV	2431	48372	0.74%	0.054%
135	14.163	14.144	14.222	VV	240	6674	0.10%	0.007%
136	14.265	14.222	14.314	PV	199	7304	0.11%	0.008%
137	14.473	14.314	14.497	VV	581	22058	0.34%	0.025%
138	14.545	14.497	14.571	VV	500	12095	0.19%	0.014%
139	14.596	14.571	14.628	VV	1374	18561	0.29%	0.021%
140	14.657	14.628	14.681	VV	407	7720	0.12%	0.009%
141	14.704	14.681	14.774	VV	256	9038	0.14%	0.010%

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Instrument :
FID_E
ClientSampleId :
RES-BUILDING-PAD-NO-3DL

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/06/2024
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A B C D E F G H I J

rteres

142	14.853	14.774	14.924	PV	256	10827	0.17%	0.012%
143	15.022	14.924	15.047	PV	171	9003		
144	15.135	15.047	15.164	PV	2054	45793		
145	15.186	15.164	15.228	VV	1177	23209		
146	15.265	15.228	15.304	VV	316	9761		
147	15.332	15.304	15.364	VV	205	4154		
148	15.525	15.364	15.631	PV	4562	130792	2.01%	0.147%
149	15.654	15.631	15.698	VV	1870	33185	0.51%	0.037%
150	15.724	15.698	15.757	VV	2481	37190	0.57%	0.042%
151	15.788	15.757	15.831	VV	413	10074	0.16%	0.011%
152	15.980	15.831	16.001	PV	329	12662	0.20%	0.014%
153	16.154	16.001	16.198	VV	2463	57135	0.88%	0.064%
154	16.225	16.198	16.258	VV	568	11618	0.18%	0.013%
155	16.284	16.258	16.308	VV	267	4329	0.07%	0.005%
156	16.351	16.308	16.401	VV	315	7914	0.12%	0.009%
157	16.637	16.401	16.668	PV	2867	98546	1.52%	0.111%
158	16.715	16.668	16.744	VV	1491	48230	0.74%	0.054%
159	16.848	16.744	16.891	VV	1356	93289	1.44%	0.105%
160	17.104	16.891	17.134	VV	7581	335645	5.17%	0.377%
161	17.152	17.134	17.168	VV	3506	64376	0.99%	0.072%
162	17.186	17.168	17.244	VV	3696	127965	1.97%	0.144%
163	17.343	17.244	17.365	VV	3363	207721	3.20%	0.233%
164	17.553	17.365	17.604	VV	9947	626845	9.65%	0.704%
165	17.658	17.604	17.688	VV	4803	211531	3.26%	0.238%
166	17.735	17.688	17.798	VV	4302	265636	4.09%	0.298%
167	17.889	17.798	17.903	VV	4917	276012	4.25%	0.310%
168	17.989	17.903	18.021	VV	15836	524390	8.08%	0.589%
169	18.084	18.021	18.101	VV	8070	323927	4.99%	0.364%
170	18.130	18.101	18.203	VV	11633	530903	8.18%	0.596%
171	18.310	18.203	18.334	VV	9875	641410	9.88%	0.721%
172	18.412	18.334	18.443	VV	19907	739318	11.39%	0.830%
173	18.497	18.443	18.551	VV	13088	707270	10.89%	0.794%
174	18.717	18.551	18.754	VV	12774	1413740	21.77%	1.588%
175	18.821	18.754	18.868	VV	25131	1063100	16.37%	1.194%
176	18.920	18.868	18.944	VV	16794	672068	10.35%	0.755%
177	18.969	18.944	19.018	VV	16099	659022	10.15%	0.740%
178	19.219	19.018	19.282	VV	30046	2941924	45.31%	3.305%
179	19.317	19.282	19.334	VV	21093	642283	9.89%	0.721%
180	19.473	19.334	19.494	VV	22651	2046885	31.52%	2.299%
181	19.513	19.494	19.554	VV	22311	799671	12.32%	0.898%
182	19.604	19.554	19.658	VV	34498	1584384	24.40%	1.780%
183	19.673	19.658	19.690	VV	23917	459387	7.08%	0.516%
184	19.722	19.690	19.744	VV	25078	776639	11.96%	0.872%
185	19.978	19.744	20.058	VV	39103	5474839	84.32%	6.150%
186	20.249	20.058	20.291	VV	38918	4922454	75.81%	5.529%
187	20.344	20.291	20.374	VV	50477	2109242	32.48%	2.369%
188	20.408	20.374	20.464	VV	43421	2268555	34.94%	2.548%
189	20.497	20.464	20.524	VV	43012	1521741	23.44%	1.709%
190	20.698	20.524	20.723	VV	52081	5377682	82.82%	6.041%
191	20.812	20.723	20.834	VV	49687	3263969	50.27%	3.666%
192	20.856	20.834	20.914	VV	49663	2321379	35.75%	2.608%
193	20.944	20.914	20.968	VV	47308	1505447	23.19%	1.691%
194	21.066	20.968	21.121	VV	57928	4642277	71.50%	5.215%

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Instrument :
FID_E
ClientSampleId :
RES-BUILDING-PAD-NO-3DL

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/06/2024
Supervised By :Ankita Jodhani 11/06/2024

A B C D E F G H I J

rteres

195	21.141	21.121	21.204	VV	49318	2417278	37.23%	2.715%
196	21.253	21.204	21.424	VV	47950	6138593	94	
197	21.481	21.424	21.508	VV	47804	2291480	35	
198	21.566	21.508	21.744	VV	47512	6492994	100	
199	21.832	21.744	21.904	VV	46715	4366965	67	
200	21.946	21.904	22.001	VV	53434	2740900	42	
201	22.097	22.001	22.201	VBA	45648	5359984	82.55%	6.021%

Sum of corrected areas: 89022357

Aliphatic EPH 100824.M Tue Nov 05 12:20:40 2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE110124AL\
Data File : FE050988.D
Signal(s) : FID1B.ch
Acq On : 02 Nov 2024 04:08
Operator : YP\AJ
Sample : P4663-08
Misc :
ALS Vial : 32 Sample Multiplier: 1

Integration File: sample.E
Quant Time: Nov 04 03:13:06 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 100824.M
Quant Title : GC Extractables
QLast Update : Mon Oct 07 16:32:18 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

Instrument :
FID_E
ClientSampleId :
RES-BUILDING-PAD-NO-2

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/04/2024
Supervised By :Ankita Jodhani 11/04/2024

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
9) S ortho-Terphenyl (SURR)	11.852	4154624	26.353 ug/mlm
Spiked Amount 50.000		Recovery = 52.71%	
12) S 1-chlorooctadecane (S...	13.285	3149331	26.623 ug/ml
Spiked Amount 50.000		Recovery = 53.25%	
Target Compounds			

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

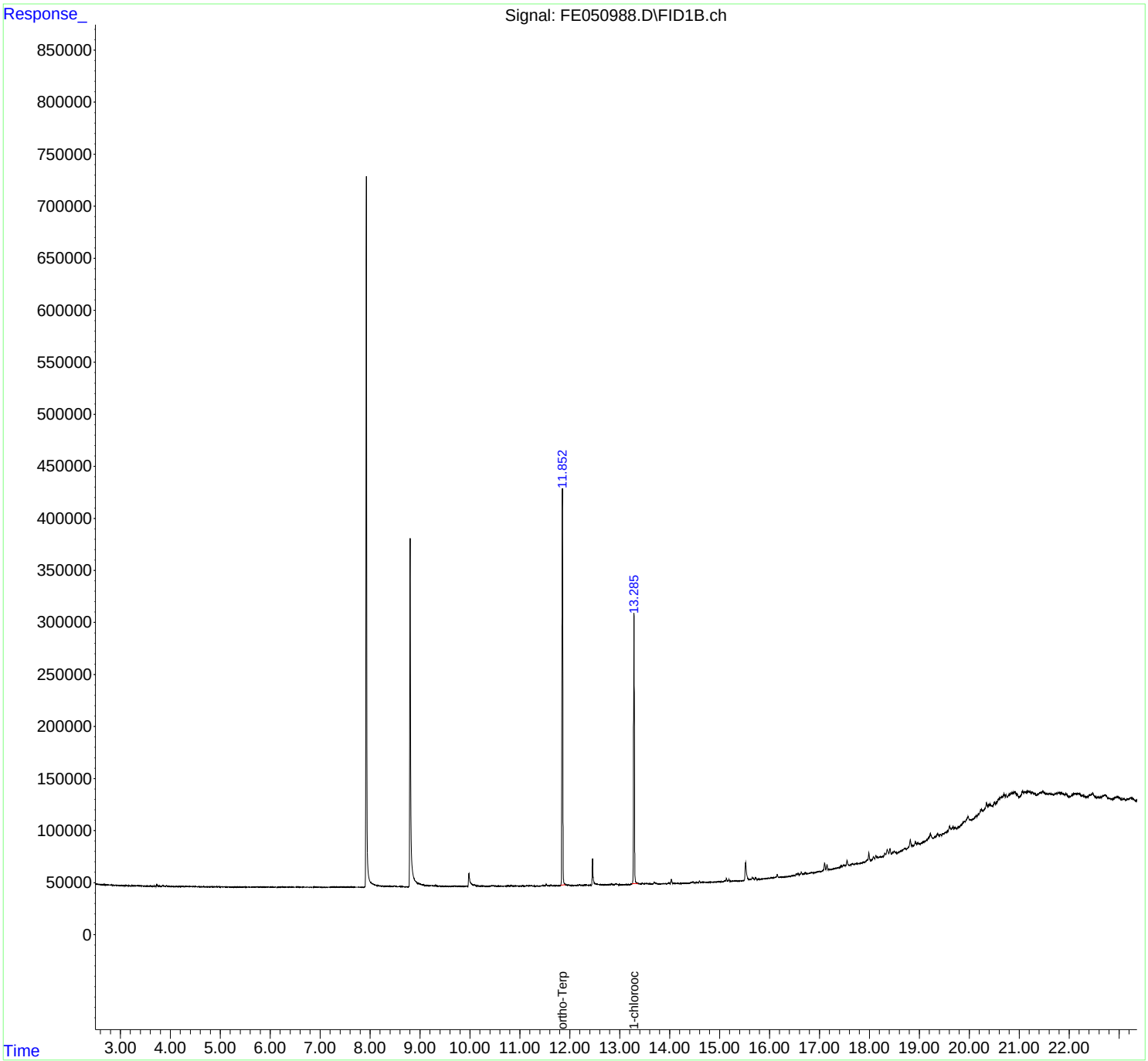
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE110124AL\
Data File : FE050988.D
Signal(s) : FID1B.ch
Acq On : 02 Nov 2024 04:08
Operator : YP\AJ
Sample : P4663-08
Misc :
ALS Vial : 32 Sample Multiplier: 1

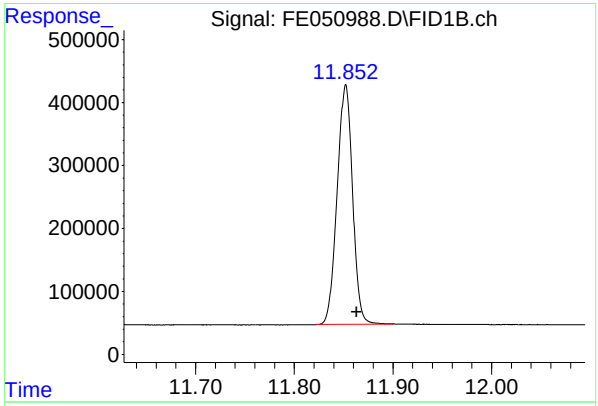
Integration File: sample.E
Quant Time: Nov 04 03:13:06 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 100824.
Quant Title : GC Extractables
QLast Update : Mon Oct 07 16:32:18 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

Instrument :
FID_E
ClientSampleId :
RES-BUILDING-PAD-NO-2

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 11/04/2024
Supervised By :Ankita Jodhani 11/04/2024





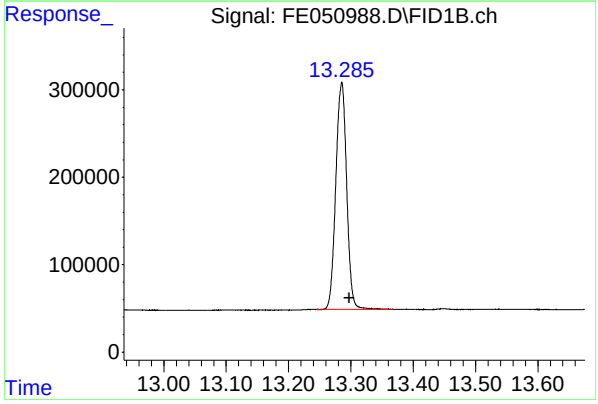
#9 ortho-Terphenyl (SURR)

R.T.: 11.852 min
Delta R.T.: -0.011 min
Response: 4154624
Conc: 26.35 ug/ml

Instrument :
FID_E
ClientSampleId :
RES-BUILDING-PAD-NO-2

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/04/2024
Supervised By :Ankita Jodhani 11/04/2024



#12 1-chlorooctadecane (SURR)

R.T.: 13.285 min
Delta R.T.: -0.013 min
Response: 3149331
Conc: 26.62 ug/ml

11

Instrument :
FID_E
ClientSampleId :
RES-BUILDING-PAD-NO-2

rteres

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/04/2024
Supervised By :Ankita Jodhani 11/04/2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE11012
Data File : FE050988.D
Signal(s) : FID1B.ch
Acq On : 02 Nov 2024 04:08
Sample : P4663-08
Misc :
ALS Vial : 32 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 100824.M
Title : GC Extractables

Signal : FID1B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.233	3.204	3.344	BV	129	698	0.02%	0.002%
2	3.359	3.344	3.414	VV	127	3405	0.08%	0.009%
3	3.432	3.414	3.508	PV	199	4863	0.11%	0.013%
4	3.520	3.508	3.532	PV	125	1249	0.03%	0.003%
5	3.539	3.532	3.545	VV	104	580	0.01%	0.002%
6	3.553	3.545	3.568	VV	155	1040	0.02%	0.003%
7	3.589	3.568	3.659	VV	145	4211	0.10%	0.011%
8	3.680	3.659	3.707	PV	310	4753	0.11%	0.012%
9	3.729	3.707	3.824	VV	1721	28249	0.67%	0.074%
10	3.849	3.824	3.904	VV	1113	20571	0.49%	0.054%
11	3.925	3.904	4.022	VV	531	10683	0.25%	0.028%
12	4.035	4.022	4.124	PV	82	2518	0.06%	0.007%
13	4.129	4.124	4.147	VV	98	671	0.02%	0.002%
14	4.166	4.147	4.179	VV	68	819	0.02%	0.002%
15	4.194	4.179	4.202	VV	124	853	0.02%	0.002%
16	4.215	4.202	4.273	VV	91	3571	0.08%	0.009%
17	4.286	4.273	4.295	VV	130	1548	0.04%	0.004%
18	4.310	4.295	4.334	VV	167	3142	0.07%	0.008%
19	4.357	4.334	4.374	VV	260	3589	0.08%	0.009%
20	4.380	4.374	4.422	VV	159	2750	0.07%	0.007%
21	4.433	4.422	4.477	VV	121	2481	0.06%	0.006%
22	4.496	4.477	4.520	VV	183	3321	0.08%	0.009%
23	4.542	4.520	4.598	VV	164	3553	0.08%	0.009%
24	4.611	4.598	4.652	VV	98	1590	0.04%	0.004%
25	4.667	4.652	4.824	PV	304	9420	0.22%	0.025%
26	4.827	4.824	4.858	VV	144	1890	0.04%	0.005%
27	4.889	4.858	4.900	VV	138	2597	0.06%	0.007%
28	4.911	4.900	4.969	VV	146	4806	0.11%	0.013%
29	4.980	4.969	4.994	VV	165	1781	0.04%	0.005%
30	5.003	4.994	5.024	VV	114	1791	0.04%	0.005%
31	5.032	5.024	5.088	VV	157	3518	0.08%	0.009%
32	5.158	5.137	5.224	VV	176	4073	0.10%	0.011%
33	5.232	5.224	5.317	PV	87	2179	0.05%	0.006%
34	5.329	5.317	5.395	PV	79	2116	0.05%	0.006%
35	5.406	5.395	5.455	VV	87	1993	0.05%	0.005%
36	5.473	5.455	5.579	VV	190	4606	0.11%	0.012%

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Instrument :
FID_E
ClientSampleId :
RES-BUILDING-PAD-NO-2

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/04/2024
Supervised By :Ankita Jodhani 11/04/2024

A B C D E F G H I J

					rteres			
37	5.591	5.579	5.599	VV	97	541	0.01%	0.001%
38	5.604	5.599	5.613	VV	59	355	0	
39	5.640	5.613	5.659	VV	142	1952	0	
40	5.680	5.659	5.701	PV	70	1390	0	
41	5.724	5.701	5.782	VV	375	8073	0	
42	5.809	5.782	5.823	VV	152	3153	0	
43	5.848	5.823	5.877	VV	198	5002	0.12%	0.013%
44	5.905	5.877	5.961	VV	321	8012	0.19%	0.021%
45	5.967	5.961	6.095	VV	156	7618	0.18%	0.020%
46	6.110	6.095	6.191	VV	77	2522	0.06%	0.007%
47	6.235	6.191	6.292	VV	342	12208	0.29%	0.032%
48	6.300	6.292	6.324	VV	167	2528	0.06%	0.007%
49	6.332	6.324	6.344	VV	131	1238	0.03%	0.003%
50	6.373	6.344	6.411	VV	262	6032	0.14%	0.016%
51	6.430	6.411	6.506	VV	171	4835	0.11%	0.013%
52	6.551	6.506	6.590	VV	453	9778	0.23%	0.025%
53	6.657	6.590	6.721	PV	188	7459	0.18%	0.019%
54	6.737	6.721	6.749	VV	105	1408	0.03%	0.004%
55	6.767	6.749	6.781	VV	104	1205	0.03%	0.003%
56	6.812	6.781	6.822	VV	100	1134	0.03%	0.003%
57	6.844	6.822	6.867	VV	109	1789	0.04%	0.005%
58	6.878	6.867	6.885	VV	112	712	0.02%	0.002%
59	6.908	6.885	6.927	VV	120	2180	0.05%	0.006%
60	6.950	6.927	6.971	VV	165	2750	0.06%	0.007%
61	6.981	6.971	6.991	VV	104	985	0.02%	0.003%
62	6.997	6.991	7.056	VV	101	2447	0.06%	0.006%
63	7.067	7.056	7.085	VV	70	734	0.02%	0.002%
64	7.261	7.085	7.314	VV	214	14582	0.34%	0.038%
65	7.381	7.314	7.400	VV	267	9528	0.23%	0.025%
66	7.410	7.400	7.424	VV	165	2102	0.05%	0.005%
67	7.428	7.424	7.438	VV	183	1238	0.03%	0.003%
68	7.447	7.438	7.473	VV	186	2777	0.07%	0.007%
69	7.549	7.473	7.557	VV	233	9365	0.22%	0.024%
70	7.567	7.557	7.590	VV	288	3971	0.09%	0.010%
71	7.606	7.590	7.624	VV	367	4748	0.11%	0.012%
72	7.628	7.624	7.672	VV	237	3735	0.09%	0.010%
73	7.692	7.672	7.710	VV	139	2303	0.05%	0.006%
74	7.722	7.710	7.754	VV	98	2166	0.05%	0.006%
75	7.773	7.754	7.828	VV	353	4151	0.10%	0.011%
76	7.837	7.828	7.854	PV	72	536	0.01%	0.001%
77	8.292	8.282	8.348	VV	791	28844	0.68%	0.075%
78	8.353	8.348	8.365	VV	651	6693	0.16%	0.017%
79	8.393	8.365	8.442	VV	1005	33118	0.78%	0.086%
80	8.488	8.442	8.558	VV	1038	45559	1.08%	0.119%
81	8.630	8.558	8.711	VV	437	30769	0.73%	0.080%
82	8.724	8.711	8.774	VV	342	8964	0.21%	0.023%
83	9.166	9.154	9.203	VV	1130	30169	0.71%	0.079%
84	9.226	9.203	9.281	VV	1302	47644	1.13%	0.124%
85	9.312	9.281	9.384	VV	1383	50284	1.19%	0.131%
86	9.400	9.384	9.421	VV	635	11313	0.27%	0.029%
87	9.430	9.421	9.477	VV	458	13282	0.31%	0.035%
88	9.497	9.477	9.577	VV	462	19816	0.47%	0.052%
89	9.600	9.577	9.654	VV	300	10818	0.26%	0.028%

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Instrument :
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Manual IntegrationsAPPROVED

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A B C D E F G H I J

rteres

90	9.707	9.654	9.748	VV	517	21403	0.51%	0.056%
91	9.767	9.748	9.834	VV	379	14723		
92	9.858	9.834	9.908	VV	276	8595		
93	9.928	9.908	9.954	VV	369	5447		
94	9.981	9.954	10.071	VV	12613	279099		
95	10.089	10.071	10.198	VV	1677	62129		
96	10.211	10.198	10.238	VV	441	9310	0.22%	0.024%
97	10.248	10.238	10.398	VV	367	19241	0.45%	0.050%
98	10.445	10.398	10.462	VV	733	15138	0.36%	0.039%
99	10.477	10.462	10.500	VV	550	9291	0.22%	0.024%
100	10.511	10.500	10.531	VV	279	4383	0.10%	0.011%
101	10.561	10.531	10.601	VV	280	9229	0.22%	0.024%
102	10.615	10.601	10.674	VV	253	6146	0.15%	0.016%
103	10.751	10.674	10.781	VV	496	14199	0.34%	0.037%
104	10.828	10.781	10.870	VV	925	19267	0.46%	0.050%
105	10.897	10.870	10.928	VV	352	7804	0.18%	0.020%
106	10.935	10.928	11.018	VV	305	7992	0.19%	0.021%
107	11.049	11.018	11.078	VV	310	6066	0.14%	0.016%
108	11.139	11.078	11.189	PV	510	16738	0.40%	0.044%
109	11.213	11.189	11.265	VV	352	10285	0.24%	0.027%
110	11.283	11.265	11.299	VV	139	2670	0.06%	0.007%
111	11.306	11.299	11.327	VV	144	1691	0.04%	0.004%
112	11.336	11.327	11.358	VV	157	1383	0.03%	0.004%
113	11.417	11.358	11.431	VV	124	1693	0.04%	0.004%
114	11.463	11.431	11.501	VV	1073	15850	0.37%	0.041%
115	11.531	11.501	11.593	VV	1663	27637	0.65%	0.072%
116	11.620	11.593	11.658	VV	769	13766	0.33%	0.036%
117	11.694	11.658	11.710	VV	264	3597	0.09%	0.009%
118	11.730	11.710	11.754	VV	299	3099	0.07%	0.008%
119	11.775	11.754	11.794	PV	94	1466	0.03%	0.004%
120	11.852	11.794	11.975	VV	377479	4231234	100.00%	11.017%
121	11.986	11.975	12.003	VV	548	7406	0.18%	0.019%
122	12.015	12.003	12.068	VV	377	8980	0.21%	0.023%
123	12.080	12.068	12.114	VV	167	2990	0.07%	0.008%
124	12.138	12.114	12.162	VV	330	4993	0.12%	0.013%
125	12.200	12.162	12.234	VV	1027	16753	0.40%	0.044%
126	12.240	12.234	12.276	VV	134	2333	0.06%	0.006%
127	12.306	12.276	12.373	VV	357	12409	0.29%	0.032%
128	12.405	12.373	12.428	PV	306	5443	0.13%	0.014%
129	12.456	12.428	12.541	VV	25649	359560	8.50%	0.936%
130	12.552	12.541	12.568	VV	887	12883	0.30%	0.034%
131	12.578	12.568	12.633	VV	745	23063	0.55%	0.060%
132	12.651	12.633	12.698	VV	564	15982	0.38%	0.042%
133	12.717	12.698	12.733	VV	331	5177	0.12%	0.013%
134	12.775	12.733	12.800	VV	509	12475	0.29%	0.032%
135	12.837	12.800	12.881	VV	1276	25449	0.60%	0.066%
136	12.919	12.881	13.008	VV	943	29805	0.70%	0.078%
137	13.015	13.008	13.031	VV	51	391	0.01%	0.001%
138	13.100	13.031	13.142	PV	279	6858	0.16%	0.018%
139	13.159	13.142	13.173	PV	127	1463	0.03%	0.004%
140	13.194	13.173	13.204	VV	176	1842	0.04%	0.005%
141	13.240	13.204	13.250	VV	868	13363	0.32%	0.035%

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Instrument :
FID_E
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Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/04/2024
Supervised By :Ankita Jodhani 11/04/2024

A B C D E F G H I J

					rteres			
142	13.285	13.250	13.377	VV	258064	3210449	75.88%	8.359%
143	13.391	13.377	13.427	VV	809	18877	[illegible]	
144	13.449	13.427	13.472	VV	1389	22508	[illegible]	
145	13.507	13.472	13.517	VV	639	15187	[illegible]	
146	13.537	13.517	13.551	VV	760	13140	[illegible]	
147	13.569	13.551	13.657	VV	586	21930	[illegible]	
148	13.691	13.657	13.784	VV	2102	50733	1.20%	0.132%
149	13.828	13.784	13.848	VV	221	6803	0.16%	0.018%
150	13.868	13.848	13.884	VV	243	4550	0.11%	0.012%
151	13.894	13.884	13.909	VV	281	2564	0.06%	0.007%
152	13.915	13.909	13.934	VV	148	1365	0.03%	0.004%
153	13.988	13.934	14.008	PV	866	16940	0.40%	0.044%
154	14.034	14.008	14.111	VV	4252	64613	1.53%	0.168%
155	14.123	14.111	14.214	VV	226	6287	0.15%	0.016%
156	14.254	14.214	14.277	PV	210	3906	0.09%	0.010%
157	14.299	14.277	14.334	VV	173	3219	0.08%	0.008%
158	14.365	14.334	14.376	VV	117	1608	0.04%	0.004%
159	14.438	14.376	14.455	PV	923	18782	0.44%	0.049%
160	14.472	14.455	14.498	VV	1138	18000	0.43%	0.047%
161	14.546	14.498	14.574	VV	480	13195	0.31%	0.034%
162	14.596	14.574	14.622	VV	1994	25443	0.60%	0.066%
163	14.656	14.622	14.673	VV	496	10925	0.26%	0.028%
164	14.702	14.673	14.784	VV	391	14754	0.35%	0.038%
165	14.845	14.784	14.881	VV	291	8739	0.21%	0.023%
166	14.889	14.881	14.908	VV	162	1623	0.04%	0.004%
167	14.991	14.908	15.054	VV	459	13547	0.32%	0.035%
168	15.135	15.054	15.161	VV	3123	59877	1.42%	0.156%
169	15.185	15.161	15.234	VV	1980	33942	0.80%	0.088%
170	15.257	15.234	15.271	VV	256	5408	0.13%	0.014%
171	15.288	15.271	15.297	VV	193	2745	0.06%	0.007%
172	15.335	15.297	15.361	VV	368	8585	0.20%	0.022%
173	15.391	15.361	15.404	VV	145	2545	0.06%	0.007%
174	15.439	15.404	15.449	PV	180	2167	0.05%	0.006%
175	15.519	15.449	15.624	VV	17417	374866	8.86%	0.976%
176	15.654	15.624	15.697	VV	2708	60190	1.42%	0.157%
177	15.723	15.697	15.764	VV	1959	33227	0.79%	0.087%
178	15.787	15.764	15.816	VV	310	6375	0.15%	0.017%
179	15.981	15.816	15.994	VV	347	16910	0.40%	0.044%
180	16.040	15.994	16.078	VV	685	21867	0.52%	0.057%
181	16.122	16.078	16.130	VV	737	15727	0.37%	0.041%
182	16.154	16.130	16.185	VV	3184	47953	1.13%	0.125%
183	16.222	16.185	16.262	VV	578	17090	0.40%	0.044%
184	16.294	16.262	16.316	VV	252	5200	0.12%	0.014%
185	16.352	16.316	16.361	PV	312	6405	0.15%	0.017%
186	16.408	16.361	16.418	VV	146	5084	0.12%	0.013%
187	16.536	16.418	16.558	PV	1622	41167	0.97%	0.107%
188	16.574	16.558	16.610	VV	1895	31939	0.75%	0.083%
189	16.637	16.610	16.664	VV	2657	37090	0.88%	0.097%
190	16.719	16.664	16.746	VV	1194	28184	0.67%	0.073%
191	16.794	16.746	16.806	VV	350	6025	0.14%	0.016%
192	16.840	16.806	16.881	VV	576	12426	0.29%	0.032%
193	17.008	16.881	17.031	PV	424	16322	0.39%	0.042%
194	17.102	17.031	17.128	VV	7529	128201	3.03%	0.334%

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Instrument :
FID_E
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Manual IntegrationsAPPROVED

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					rteres			
195	17.151	17.128	17.173	VV	5414	78590	1.86%	0.205%
196	17.186	17.173	17.214	VV	972	13156		
197	17.298	17.214	17.311	PV	289	8139		
198	17.347	17.311	17.358	VV	483	9950		
199	17.438	17.358	17.456	VV	1413	40397		
200	17.487	17.456	17.498	VV	1585	34130		
201	17.513	17.498	17.526	VV	1469	23127	0.55%	0.060%
202	17.552	17.526	17.594	VV	5664	99063	2.34%	0.258%
203	17.660	17.594	17.685	VV	998	39443	0.93%	0.103%
204	17.729	17.685	17.741	VV	719	14776	0.35%	0.038%
205	17.837	17.741	17.850	VV	339	14429	0.34%	0.038%
206	17.884	17.850	17.896	PV	469	6961	0.16%	0.018%
207	17.953	17.896	17.966	VV	1850	31915	0.75%	0.083%
208	17.988	17.966	18.019	VV	8002	111048	2.62%	0.289%
209	18.081	18.019	18.104	VV	3171	55158	1.30%	0.144%
210	18.130	18.104	18.151	VV	3536	59886	1.42%	0.156%
211	18.164	18.151	18.186	VV	1358	24669	0.58%	0.064%
212	18.219	18.186	18.240	VV	1077	23110	0.55%	0.060%
213	18.309	18.240	18.328	VV	3361	74406	1.76%	0.194%
214	18.355	18.328	18.388	VV	6140	139973	3.31%	0.364%
215	18.412	18.388	18.439	VV	6289	105662	2.50%	0.275%
216	18.496	18.439	18.560	VV	2813	97813	2.31%	0.255%
217	18.700	18.560	18.748	PV	2552	134254	3.17%	0.350%
218	18.818	18.748	18.871	VV	9053	277285	6.55%	0.722%
219	18.922	18.871	18.946	VV	5530	167529	3.96%	0.436%
220	18.968	18.946	19.013	VV	3886	125480	2.97%	0.327%
221	19.220	19.013	19.273	VV	9509	703224	16.62%	1.831%
222	19.312	19.273	19.323	VV	5005	132219	3.12%	0.344%
223	19.368	19.323	19.398	VV	6612	248090	5.86%	0.646%
224	19.421	19.398	19.443	VV	5773	138921	3.28%	0.362%
225	19.605	19.443	19.638	VV	11170	788552	18.64%	2.053%
226	19.674	19.638	19.694	VV	9431	279064	6.60%	0.727%
227	19.713	19.694	19.754	VV	8358	266767	6.30%	0.695%
228	19.787	19.754	19.802	VV	7867	208312	4.92%	0.542%
229	19.898	19.802	19.906	VV	11334	583600	13.79%	1.520%
230	19.975	19.906	20.006	VV	14997	754617	17.83%	1.965%
231	20.021	20.006	20.038	VV	11460	214412	5.07%	0.558%
232	20.141	20.038	20.157	VV	12938	843909	19.94%	2.197%
233	20.243	20.157	20.278	VV	18236	1132064	26.75%	2.948%
234	20.345	20.278	20.365	VV	22408	983070	23.23%	2.560%
235	20.415	20.365	20.458	VV	20479	1093757	25.85%	2.848%
236	20.506	20.458	20.524	VV	21433	775627	18.33%	2.020%
237	20.697	20.524	20.719	VV	26350	2725395	64.41%	7.096%
238	20.737	20.719	20.758	VV	24714	555448	13.13%	1.446%
239	20.802	20.758	20.814	VV	24727	797729	18.85%	2.077%
240	20.848	20.814	20.871	VV	25024	839018	19.83%	2.185%
241	20.908	20.871	20.995	VV	25148	1723195	40.73%	4.487%
242	21.068	20.995	21.092	VV	23543	1231176	29.10%	3.206%
243	21.115	21.092	21.168	VV	22563	998159	23.59%	2.599%
244	21.184	21.168	21.200	VV	21918	422896	9.99%	1.101%
245	21.219	21.200	21.246	VV	21443	567030	13.40%	1.476%
246	21.266	21.246	21.348	VV	20157	1119011	26.45%	2.914%

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Instrument :
FID_E
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					rteres			
247	21.478	21.348	21.537	VV	17967	1883787	44.52%	4.905%
248	21.587	21.537	21.654	VV	13956	955384	22	
249	21.663	21.654	21.674	VV	12265	145008	3	
250	21.723	21.674	21.733	VV	12354	420680	9	
251	21.747	21.733	21.758	VV	12230	176416	4	
252	21.809	21.758	21.824	VV	11799	465219	10	
253	21.835	21.824	21.904	VV	10984	488681	11.55%	1.272%
254	21.937	21.904	21.998	VV	8950	420482	9.94%	1.095%
255	22.010	21.998	22.023	VV	5304	76779	1.81%	0.200%
256	22.126	22.023	22.153	VV	6526	481412	11.38%	1.254%
257	22.174	22.153	22.246	VV	5891	270007	6.38%	0.703%
					Sum of corrected areas:		38404854	

Aliphatic EPH 100824.M Mon Nov 04 04:41:56 2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE110124AL\
Data File : FE050965.D
Signal(s) : FID1B.ch
Acq On : 01 Nov 2024 15:33
Operator : YP\AJ
Sample : PB164589BL
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
PB164589BL

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 11/04/2024
Supervised By :Ankita Jodhani 11/04/2024

Integration File: sample.E
Quant Time: Nov 04 03:09:51 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 100824.M
Quant Title : GC Extractables
QLast Update : Mon Oct 07 16:32:18 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
9) S ortho-Terphenyl (SURR)	11.853	5744957	36.440 ug/mlm
Spiked Amount 50.000		Recovery =	72.88%
12) S 1-chlorooctadecane (S...	13.287	4409327	37.275 ug/ml
Spiked Amount 50.000		Recovery =	74.55%
Target Compounds			

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

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE110124AL\
Data File : FE050965.D
Signal(s) : FID1B.ch
Acq On : 01 Nov 2024 15:33
Operator : YP\AJ
Sample : PB164589BL
Misc :
ALS Vial : 11 Sample Multiplier: 1

Integration File: sample.E
Quant Time: Nov 04 03:09:51 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 100824.
Quant Title : GC Extractables
QLast Update : Mon Oct 07 16:32:18 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

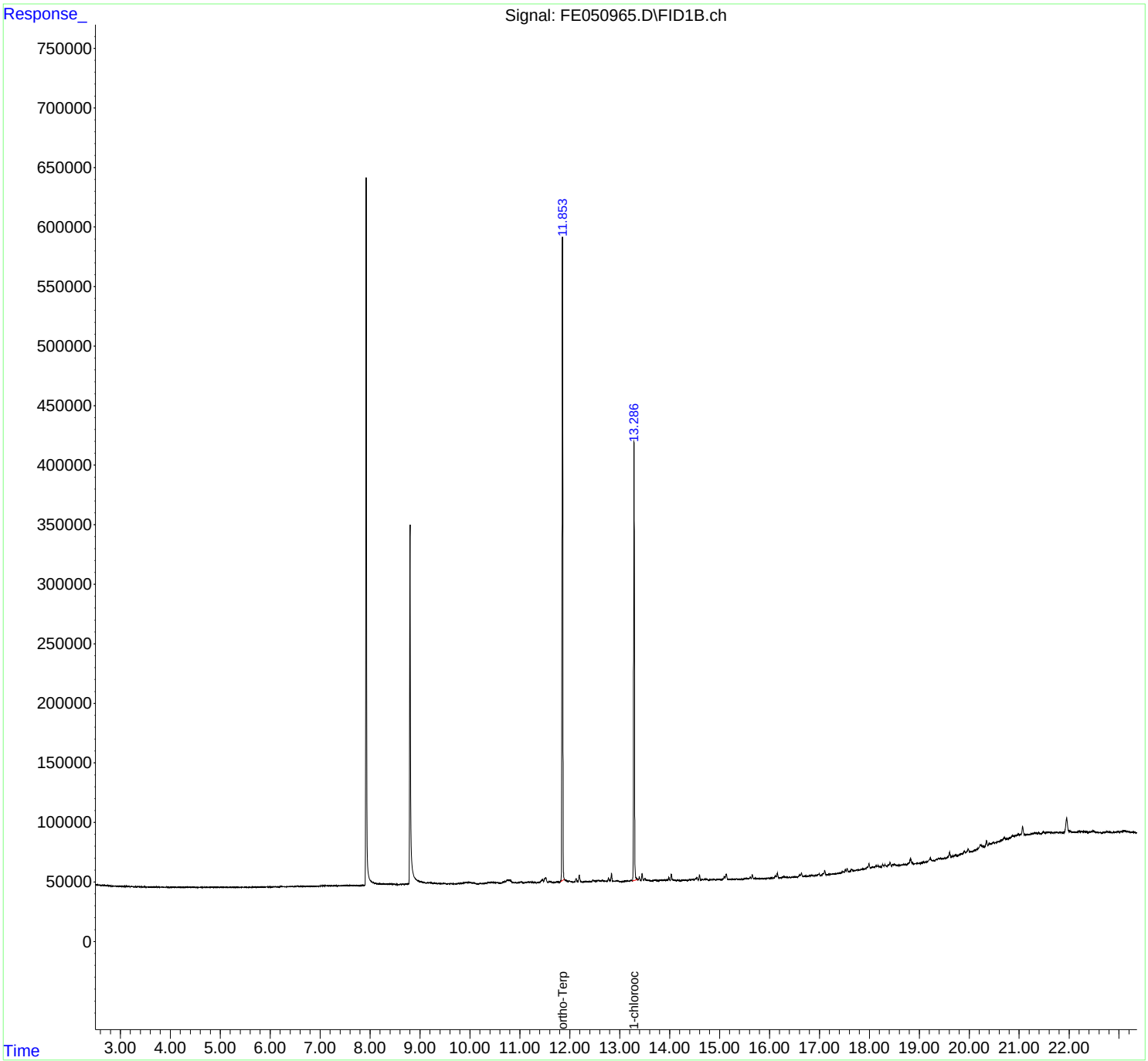
Instrument :
FID_E
ClientSampleId :
PB164589BL

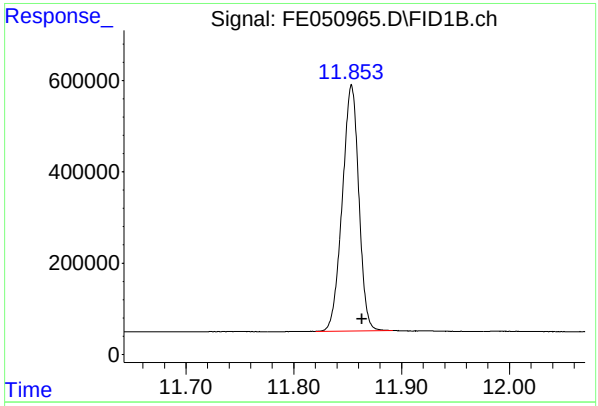
Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/04/2024
Supervised By :Ankita Jodhani 11/04/2024

11

A B C D E F G H I J





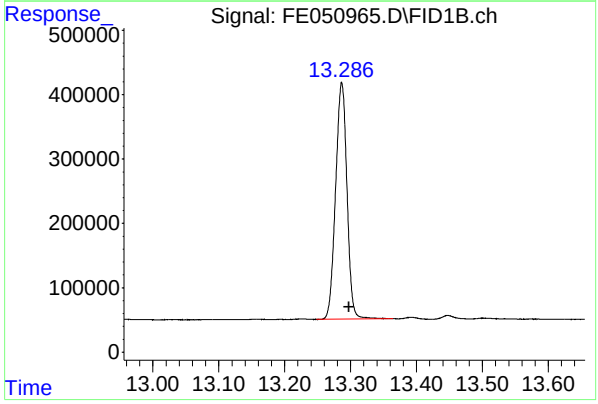
#9 ortho-Terphenyl (SURR)

R.T.: 11.853 min
Delta R.T.: -0.010 min
Response: 5744957
Conc: 36.44 ug/ml

Instrument :
FID_E
ClientSampleId :
PB164589BL

Manual Integrations APPROVED

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Supervised By :Ankita Jodhani 11/04/2024



#12 1-chlorooctadecane (SURR)

R.T.: 13.287 min
Delta R.T.: -0.011 min
Response: 4409327
Conc: 37.27 ug/ml

11

Instrument :
FID_E
ClientSampleId :
PB164589BL

rteres

Area Percent Report

Manual IntegrationsAPPROVED

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A B C D E F G H I J

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE11012
Data File : FE050965.D
Signal(s) : FID1B.ch
Acq On : 01 Nov 2024 15:33
Sample : PB164589BL
Misc :
ALS Vial : 11 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 100824.M
Title : GC Extractables

Signal : FID1B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total

No peaks were detected!
Aliphatic EPH 100824.M Mon Nov 04 05:12:38 2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE110124AL\
Data File : FE050966.D
Signal(s) : FID1B.ch
Acq On : 01 Nov 2024 16:03
Operator : YP\AJ
Sample : PB164589BS
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
PB164589BS

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 11/04/2024
Supervised By :Ankita Jodhani 11/04/2024

Integration File: sample.E
Quant Time: Nov 04 03:09:59 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 100824.M
Quant Title : GC Extractables
QLast Update : Mon Oct 07 16:32:18 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
9) S	ortho-Terphenyl (SURR)	11.856	6651573	42.191 ug/ml
Spiked Amount	50.000		Recovery =	84.38%
12) S	1-chlorooctadecane (S...	13.289	5363050	45.337 ug/ml
Spiked Amount	50.000		Recovery =	90.67%
	Target Compounds			
1) T	n-Nonane (C9)	3.248	5882181	41.632 ug/ml
2) T	n-Decane (C10)	4.496	6241351	43.501 ug/ml
3) T	A~Naphthalene (C11.7)	6.205	6388363	44.677 ug/ml
4) T	n-Dodecane (C12)	6.662	6529327	45.363 ug/ml
5) T	A~2-methylnaphthalene...	7.300	5836522	44.056 ug/ml
6) T	n-Tetradecane (C14)	8.490	6522827	45.593 ug/ml
7) T	n-Hexadecane (C16)	10.093	6416662	43.600 ug/ml
8) T	n-Octadecane (C18)	11.535	6466225	43.290 ug/ml
10) T	n-Eicosane (C20)	12.843	6479940	45.188 ug/ml
11) T	n-Heneicosane (C21)	13.454	6229737	44.361 ug/ml
13) T	n-Docosane (C22)	14.039	6202768	44.212 ug/ml
14) T	n-Tetracosane (C24)	15.140	11485574	81.298 ug/mlm
15) T	n-Hexacosane (C26)	16.160	6142892	43.654 ug/mlm
16) T	n-Octacosane (C28)	17.108	6881626	47.028 ug/mlm
17) T	n-Tricontane (C30)	17.995	6414885	40.345 ug/ml
18) T	n-Dotriacontane (C32)	18.826	6513615	40.179 ug/ml
19) T	n-Tetratriacontane (C34)	19.610	6691817	45.556 ug/ml
20) T	n-Hexatriacontane (C36)	20.349	6665983	52.565 ug/ml
21) T	n-Octatriacontane (C38)	21.074	6524625	52.768 ug/ml
22) T	n-Tetracontane (C40)	21.955	5934705	53.298 ug/ml

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

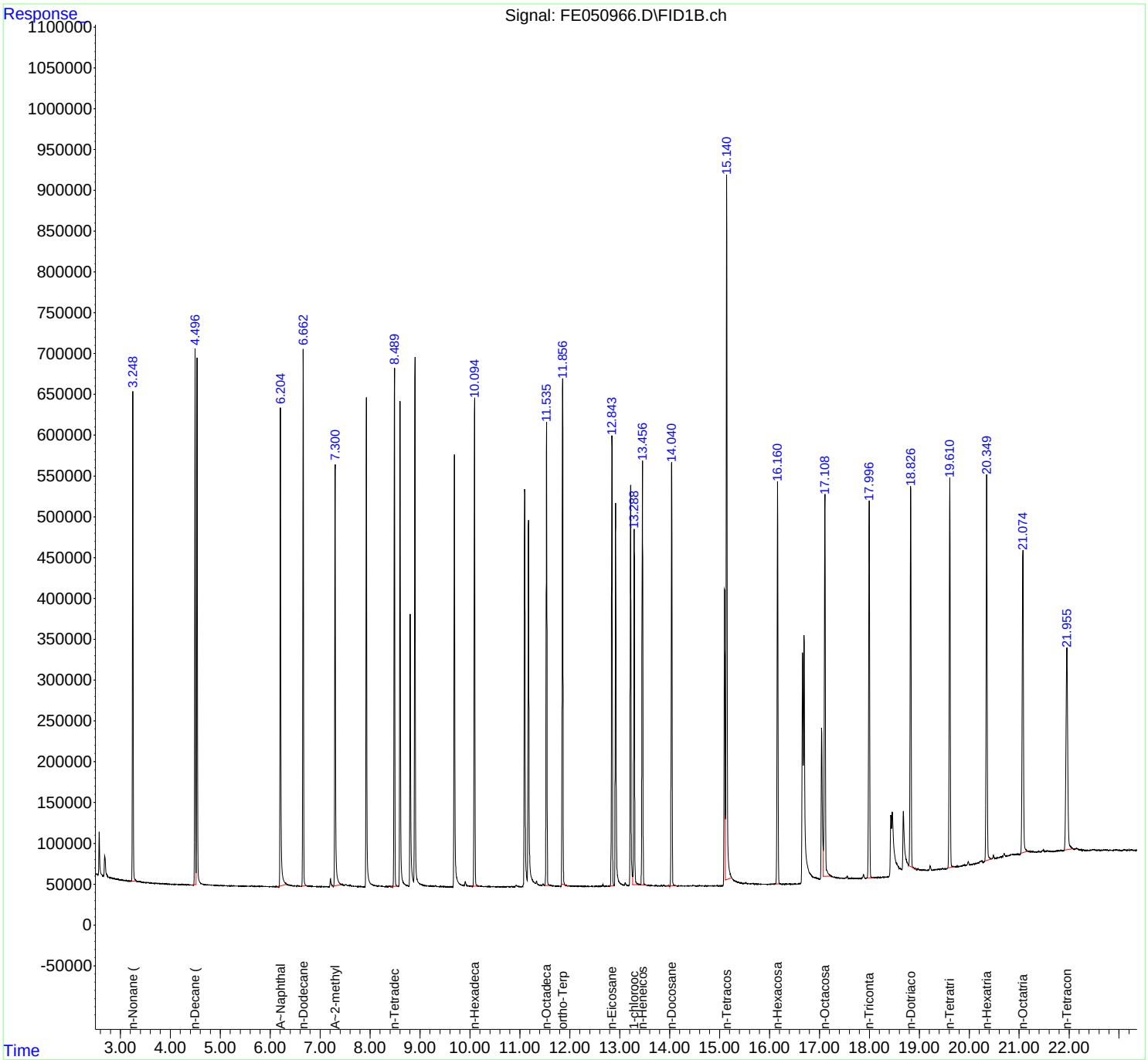
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE110124AL\
Data File : FE050966.D
Signal(s) : FID1B.ch
Acq On : 01 Nov 2024 16:03
Operator : YP\AJ
Sample : PB164589BS
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
PB164589BS

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 11/04/2024
Supervised By :Ankita Jodhani 11/04/2024

Integration File: sample.E
Quant Time: Nov 04 03:09:59 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 100824.
Quant Title : GC Extractables
QLast Update : Mon Oct 07 16:32:18 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um



11

Instrument :
FID_E
ClientSampleId :
PB164589BS

rteres

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/04/2024
Supervised By :Ankita Jodhani 11/04/2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE11012
Data File : FE050966.D
Signal(s) : FID1B.ch
Acq On : 01 Nov 2024 16:03
Sample : PB164589BS
Misc :
ALS Vial : 12 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 100824.M
Title : GC Extractables

Signal : FID1B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.248	3.218	3.318	BB	598892	5882181	49.68%	2.733%
2	4.496	4.431	4.516	BV	652578	6241351	52.72%	2.900%
3	4.535	4.516	4.624	VB	641415	6556930	55.38%	3.047%
4	6.205	6.151	6.328	BB	583886	6388363	53.96%	2.969%
5	6.662	6.631	6.724	BB	653808	6529327	55.15%	3.034%
6	7.300	7.254	7.424	BB	513292	5836522	49.30%	2.712%
7	8.490	8.414	8.564	BB	638107	6522827	55.09%	3.031%
8	8.602	8.581	8.711	BB	591054	6243337	52.73%	2.901%
9	8.900	8.874	9.004	VB	647480	6807690	57.50%	3.164%
10	9.691	9.611	9.818	BB	527875	6075013	51.31%	2.823%
11	10.093	10.021	10.181	BB	604601	6416662	54.20%	2.982%
12	11.097	11.064	11.147	M	486751	5665354	47.85%	2.633%
13	11.173	11.152	11.319	M	449323	5916694	49.97%	2.749%
14	11.535	11.494	11.611	BB	562480	6466225	54.62%	3.005%
15	11.856	11.831	11.974	BB	630737	6651573	56.18%	3.091%
16	12.843	12.801	12.888	BV	556100	6479940	54.73%	3.011%
17	12.918	12.888	13.071	VB	469299	5771602	48.75%	2.682%
18	13.217	13.084	13.258	BV	494074	5667882	47.87%	2.634%
19	13.289	13.258	13.381	VB	434712	5363050	45.30%	2.492%
20	13.454	13.411	13.568	BB	520392	6229737	52.62%	2.895%
21	14.039	13.928	14.148	BB	517898	6202768	52.39%	2.882%
22	15.098	15.072	15.116	M	363328	4500578	38.01%	2.091%
23	15.140	15.117	15.267	M	869404	11839599	100.00%	5.502%
24	16.160	16.131	16.249	BBA	491930	6011739	50.78%	2.794%
25	16.661	16.629	16.674	M	281670	3785124	31.97%	1.759%
26	16.691	16.676	16.847	M	302669	5400291	45.61%	2.510%
27	17.043	17.020	17.080	M	185055	2992571	25.28%	1.391%
28	17.108	17.080	17.222	M	470632	6978374	58.94%	3.243%
29	17.995	17.951	18.104	BB	459272	6414885	54.18%	2.981%
30	18.430	18.397	18.441	M	74637	999722	8.44%	0.465%
31	18.456	18.442	18.596	M	77796	2472980	20.89%	1.149%
32	18.679	18.654	18.779	M	70719	1551101	13.10%	0.721%
33	18.826	18.784	18.941	BB	469483	6513615	55.02%	3.027%
34	19.610	19.571	19.711	BB	480990	6691817	56.52%	3.110%
35	20.349	20.311	20.454	BB	471003	6665983	56.30%	3.098%
36	21.074	21.031	21.169	BBA	371551	6524625	55.11%	3.032%

11

Instrument :
FID_E
ClientSampleId :
PB164589BS

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/04/2024
Supervised By :Ankita Jodhani 11/04/2024

A B C D E F G H I J

```
                                        rteres
  37 21.955  21.901  22.084  BB   247931   5934705  50.13%  2.758%
                      Sum of corrected areas:   2151

Aliphatic EPH 100824.M Mon Nov 04 04:33:51 2024
```

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE110124AL\
Data File : FE050967.D
Signal(s) : FID1B.ch
Acq On : 01 Nov 2024 16:33
Operator : YP\AJ
Sample : PB164589BSD
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
PB164589BSD

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 11/04/2024
Supervised By :Ankita Jodhani 11/04/2024

Integration File: sample.E
Quant Time: Nov 04 03:10:09 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 100824.M
Quant Title : GC Extractables
QLast Update : Mon Oct 07 16:32:18 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
9) S	ortho-Terphenyl (SURR)	11.856	6076382	38.542 ug/mlm
Spiked Amount	50.000		Recovery =	77.08%
12) S	1-chlorooctadecane (S...	13.288	4838219	40.900 ug/ml
Spiked Amount	50.000		Recovery =	81.80%
	Target Compounds			
1) T	n-Nonane (C9)	3.249	5176708	36.639 ug/ml
2) T	n-Decane (C10)	4.497	5517677	38.457 ug/ml
3) T	A~Naphthalene (C11.7)	6.205	5666151	39.626 ug/ml
4) T	n-Dodecane (C12)	6.662	5809916	40.365 ug/ml
5) T	A~2-methylnaphthalene...	7.301	5234577	39.512 ug/ml
6) T	n-Tetradecane (C14)	8.489	5760893	40.267 ug/ml
7) T	n-Hexadecane (C16)	10.093	5789464	39.339 ug/ml
8) T	n-Octadecane (C18)	11.535	5846113	39.139 ug/ml
10) T	n-Eicosane (C20)	12.844	5851191	40.803 ug/ml
11) T	n-Heneicosane (C21)	13.454	5625563	40.059 ug/ml
13) T	n-Docosane (C22)	14.039	5588475	39.834 ug/ml
14) T	n-Tetracosane (C24)	15.140	10706847	75.786 ug/mlm
15) T	n-Hexacosane (C26)	16.160	5531539	39.310 ug/mlm
16) T	n-Octacosane (C28)	17.110	6147766	42.013 ug/mlm
17) T	n-Tricontane (C30)	17.996	5761792	36.237 ug/ml
18) T	n-Dotriacontane (C32)	18.827	5810459	35.842 ug/ml
19) T	n-Tetratriacontane (C34)	19.610	6065834	41.295 ug/ml
20) T	n-Hexatriacontane (C36)	20.349	6013482	47.420 ug/ml
21) T	n-Octatriacontane (C38)	21.073	6018411	48.674 ug/ml
22) T	n-Tetracontane (C40)	21.956	5780304	51.911 ug/ml

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

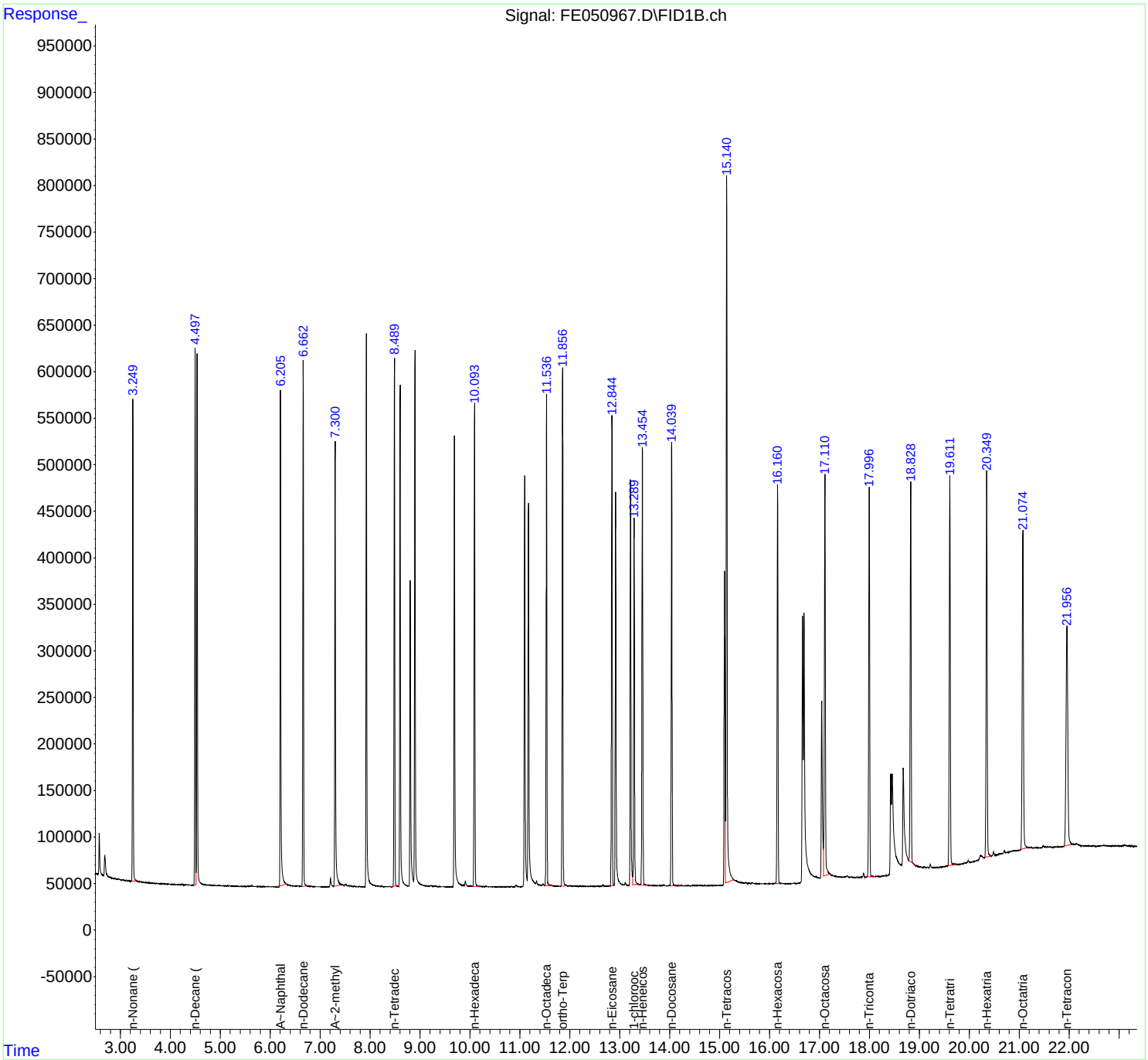
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE110124AL\
Data File : FE050967.D
Signal(s) : FID1B.ch
Acq On : 01 Nov 2024 16:33
Operator : YP\AJ
Sample : PB164589BSD
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
PB164589BSD

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 11/04/2024
Supervised By :Ankita Jodhani 11/04/2024

Integration File: sample.E
Quant Time: Nov 04 03:10:09 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 100824.
Quant Title : GC Extractables
QLast Update : Mon Oct 07 16:32:18 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um



11

Instrument :
FID_E
ClientSampleId :
PB164589BSD

rteres

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/04/2024
Supervised By :Ankita Jodhani 11/04/2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE11012
Data File : FE050967.D
Signal(s) : FID1B.ch
Acq On : 01 Nov 2024 16:33
Sample : PB164589BSD
Misc :
ALS Vial : 13 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 100824.M
Title : GC Extractables

Signal : FID1B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.249	3.214	3.321	BB	515566	5176708	47.92%	2.630%
2	4.497	4.461	4.516	BV	576529	5517677	51.08%	2.803%
3	4.536	4.516	4.634	VB	567445	5826473	53.94%	2.960%
4	6.205	6.141	6.321	BB	529017	5666151	52.45%	2.878%
5	6.662	6.631	6.734	BB	562670	5809916	53.79%	2.951%
6	7.301	7.268	7.418	BB	476018	5234577	48.46%	2.659%
7	8.489	8.408	8.579	BBA	561625	5760893	53.33%	2.926%
8	8.602	8.581	8.708	BB	530108	5623072	52.06%	2.856%
9	8.900	8.874	9.004	VB	577315	6126167	56.71%	3.112%
10	9.690	9.614	9.811	BB	483354	5463657	50.58%	2.775%
11	10.093	10.054	10.188	BB	522266	5789464	53.60%	2.941%
12	11.097	11.056	11.148	M	441642	5117821	47.38%	2.600%
13	11.173	11.153	11.315	M	412081	5267170	48.76%	2.676%
14	11.535	11.494	11.639	BBA	523722	5846113	54.12%	2.970%
15	11.856	11.831	11.961	BB	546382	5998726	55.53%	3.047%
16	12.844	12.801	12.888	BV	508560	5851191	54.17%	2.972%
17	12.918	12.888	13.041	VB	421657	5167353	47.84%	2.625%
18	13.216	13.084	13.258	BV	435269	5109884	47.30%	2.596%
19	13.288	13.258	13.381	VB	391757	4838219	44.79%	2.458%
20	13.454	13.411	13.564	BB	471114	5625563	52.08%	2.858%
21	14.039	13.998	14.148	BB	468324	5588475	51.74%	2.839%
22	15.098	15.069	15.117	M	337834	4192049	38.81%	2.130%
23	15.140	15.118	15.314	M	761660	10802052	100.00%	5.487%
24	16.160	16.131	16.249	BBA	426727	5436371	50.33%	2.762%
25	16.660	16.629	16.676	M	285376	3716296	34.40%	1.888%
26	16.690	16.677	16.821	M	287763	4845679	44.86%	2.462%
27	17.044	17.015	17.077	M	190214	2889939	26.75%	1.468%
28	17.110	17.078	17.190	M	433379	6330207	58.60%	3.216%
29	17.996	17.951	18.104	BB	415031	5761792	53.34%	2.927%
30	18.426	18.396	18.444	M	106604	1572226	14.55%	0.799%
31	18.457	18.444	18.631	M	105541	2984843	27.63%	1.516%
32	18.679	18.648	18.781	PBA	102210	2229957	20.64%	1.133%
33	18.827	18.781	18.948	BB	409270	5810459	53.79%	2.952%
34	19.610	19.571	19.728	BB	421855	6065834	56.15%	3.081%
35	20.349	20.311	20.448	BB	408631	6013482	55.67%	3.055%
36	21.073	21.031	21.169	BBA	343227	6018411	55.72%	3.057%

Page 1

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Instrument :
FID_E
ClientSampleId :
PB164589BSD

```
                                        rteres
 37 21.956  21.901  22.078  BB   235814   5780304  53.51%  2.936%
                    Sum of corrected areas:   1968

Aliphatic EPH 100824.M Mon Nov 04 04:35:09 2024
```

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/04/2024
Supervised By :Ankita Jodhani 11/04/2024

A B C D E F G H I J

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE110124AL\
Data File : FE050974.D
Signal(s) : FID1B.ch
Acq On : 01 Nov 2024 20:04
Operator : YP\AJ
Sample : P4643-05MS
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
BP-F8MS

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 11/04/2024
Supervised By :Ankita Jodhani 11/04/2024

Integration File: sample.E
Quant Time: Nov 04 03:11:07 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 100824.M
Quant Title : GC Extractables
QLast Update : Mon Oct 07 16:32:18 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
9) S	ortho-Terphenyl (SURR)	11.855	6364201	40.368 ug/mlm
Spiked Amount	50.000		Recovery =	80.74%
12) S	1-chlorooctadecane (S...	13.287	5031758	42.536 ug/ml
Spiked Amount	50.000		Recovery =	85.07%
	Target Compounds			
1) T	n-Nonane (C9)	3.242	4659417	32.978 ug/ml
2) T	n-Decane (C10)	4.493	5232715	36.471 ug/ml
3) T	A~Naphthalene (C11.7)	6.204	5470351	38.257 ug/ml
4) T	n-Dodecane (C12)	6.661	5672697	39.412 ug/ml
5) T	A~2-methylnaphthalene...	7.300	5200904	39.258 ug/ml
6) T	n-Tetradecane (C14)	8.489	6115679	42.747 ug/ml
7) T	n-Hexadecane (C16)	10.093	6584161	44.739 ug/ml
8) T	n-Octadecane (C18)	11.535	6834138	45.753 ug/ml
10) T	n-Eicosane (C20)	12.843	6918776	48.248 ug/ml
11) T	n-Heneicosane (C21)	13.453	6663473	47.449 ug/ml
13) T	n-Docosane (C22)	14.038	6657698	47.455 ug/ml
14) T	n-Tetracosane (C24)	15.140	12564298	88.934 ug/mlm
15) T	n-Hexacosane (C26)	16.159	6587821	46.816 ug/mlm
16) T	n-Octacosane (C28)	17.109	7396605	50.547 ug/mlm
17) T	n-Tricontane (C30)	17.995	6827974	42.943 ug/ml
18) T	n-Dotriacontane (C32)	18.827	7013948	43.266 ug/mlm
19) T	n-Tetratriacontane (C34)	19.610	6993054	47.607 ug/mlm
20) T	n-Hexatriacontane (C36)	20.349	6933734	54.676 ug/ml
21) T	n-Octatriacontane (C38)	21.073	6698630	54.175 ug/ml
22) T	n-Tetracontane (C40)	21.955	5993043	53.821 ug/ml

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

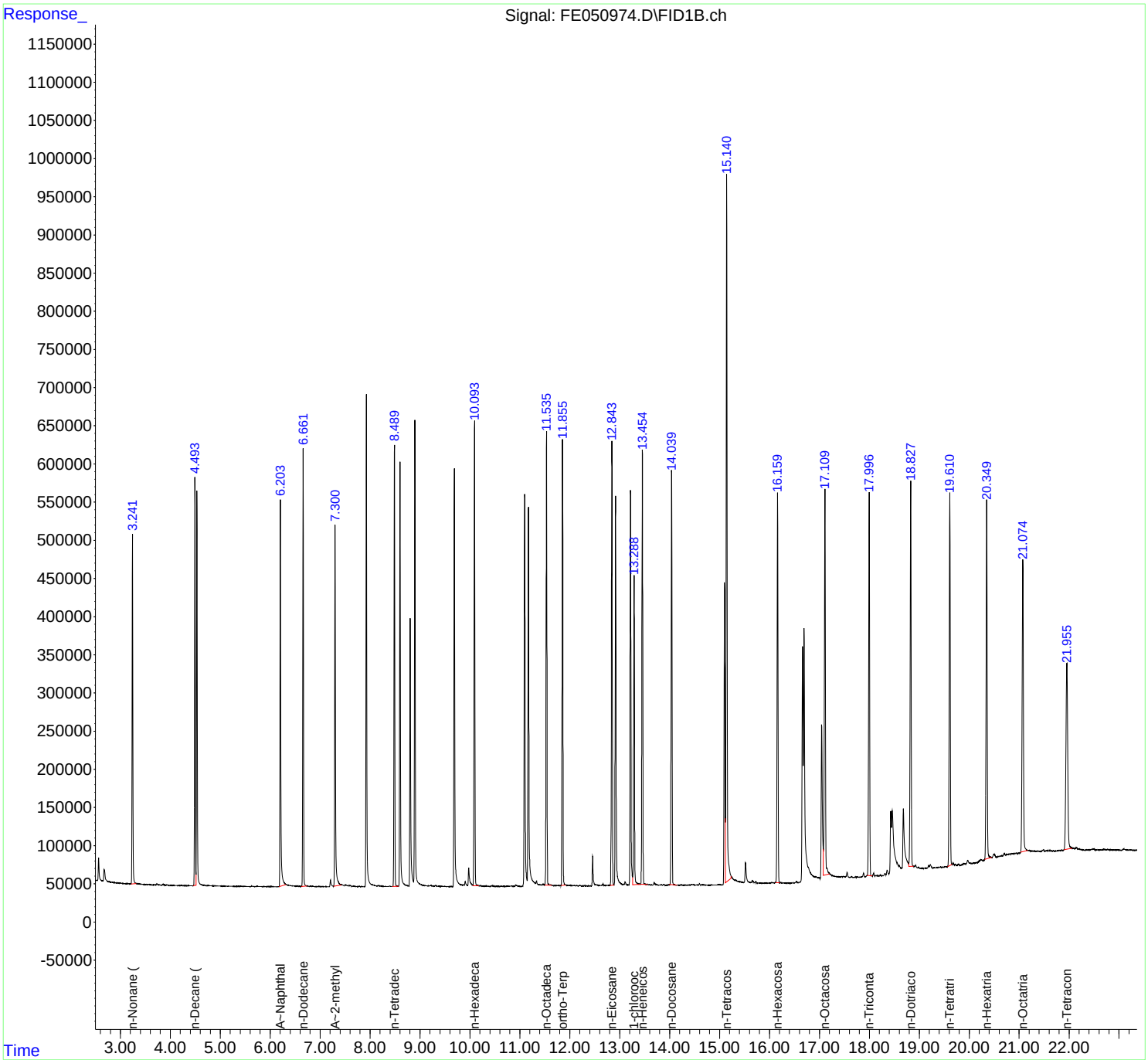
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE110124AL\
Data File : FE050974.D
Signal(s) : FID1B.ch
Acq On : 01 Nov 2024 20:04
Operator : YP\AJ
Sample : P4643-05MS
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
BP-F8MS

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 11/04/2024
Supervised By :Ankita Jodhani 11/04/2024

Integration File: sample.E
Quant Time: Nov 04 03:11:07 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 100824.
Quant Title : GC Extractables
QLast Update : Mon Oct 07 16:32:18 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um



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Instrument :
FID_E
ClientSampleId :
BP-F8MS

rteres

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/04/2024
Supervised By :Ankita Jodhani 11/04/2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE11012
Data File : FE050974.D
Signal(s) : FID1B.ch
Acq On : 01 Nov 2024 20:04
Sample : P4643-05MS
Misc :
ALS Vial : 20 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 100824.M
Title : GC Extractables

Signal : FID1B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.242	3.205	3.470	BV	456978	4715127	35.68%	2.001%
2	3.481	3.470	3.508	VV	192	2150	0.02%	0.001%
3	3.521	3.508	3.540	PV	146	1172	0.01%	0.000%
4	3.552	3.540	3.592	VV	247	4688	0.04%	0.002%
5	3.610	3.592	3.660	VV	269	4695	0.04%	0.002%
6	3.681	3.660	3.711	PV	248	3770	0.03%	0.002%
7	3.729	3.711	3.817	VV	2007	31207	0.24%	0.013%
8	3.850	3.817	3.907	PV	1152	23166	0.18%	0.010%
9	3.928	3.907	4.025	VV	564	11519	0.09%	0.005%
10	4.039	4.025	4.050	VV	144	1481	0.01%	0.001%
11	4.065	4.050	4.099	VV	171	2554	0.02%	0.001%
12	4.106	4.099	4.121	PV	96	817	0.01%	0.000%
13	4.136	4.121	4.149	VV	148	1445	0.01%	0.001%
14	4.161	4.149	4.201	PV	124	2298	0.02%	0.001%
15	4.225	4.201	4.288	VV	539	12954	0.10%	0.005%
16	4.307	4.288	4.338	VV	199	4439	0.03%	0.002%
17	4.354	4.338	4.416	VV	313	6276	0.05%	0.003%
18	4.429	4.416	4.457	PV	110	1079	0.01%	0.000%
19	4.493	4.457	4.513	PV	534519	5244499	39.69%	2.225%
20	4.533	4.513	4.761	VV	512828	5519494	41.77%	2.342%
21	4.776	4.761	4.788	VV	612	8562	0.06%	0.004%
22	4.796	4.788	4.844	VV	515	13229	0.10%	0.006%
23	4.854	4.844	4.871	VV	366	5012	0.04%	0.002%
24	4.887	4.871	4.905	VV	338	5746	0.04%	0.002%
25	4.917	4.905	4.929	VV	287	3690	0.03%	0.002%
26	4.935	4.929	5.058	VV	268	15984	0.12%	0.007%
27	5.081	5.058	5.093	VV	271	3478	0.03%	0.001%
28	5.099	5.093	5.143	VV	157	3717	0.03%	0.002%
29	5.158	5.143	5.183	VV	277	3720	0.03%	0.002%
30	5.226	5.183	5.269	VV	207	5636	0.04%	0.002%
31	5.281	5.269	5.325	VV	117	2324	0.02%	0.001%
32	5.332	5.325	5.355	VV	112	1287	0.01%	0.001%
33	5.367	5.355	5.378	VV	113	1028	0.01%	0.000%
34	5.388	5.378	5.398	VV	72	726	0.01%	0.000%
35	5.405	5.398	5.431	VV	103	779	0.01%	0.000%
36	5.472	5.431	5.603	PV	195	8039	0.06%	0.003%

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Instrument :
FID_E
ClientSampleId :
BP-F8MS

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/04/2024
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rteres

37	5.631	5.603	5.692	VV	915	12043	0.09%	0.005%
38	5.726	5.692	5.777	PV	492	12474		
39	5.788	5.777	5.815	VV	241	4926		
40	5.821	5.815	5.895	VV	206	8752		
41	5.908	5.895	5.983	VV	298	8193		
42	6.008	5.983	6.046	VV	153	3983		
43	6.062	6.046	6.072	VV	95	1272	0.01%	0.001%
44	6.084	6.072	6.091	VV	97	860	0.01%	0.000%
45	6.099	6.091	6.115	VV	128	1298	0.01%	0.001%
46	6.123	6.115	6.148	VV	118	1126	0.01%	0.000%
47	6.154	6.148	6.174	VV	84	1043	0.01%	0.000%
48	6.204	6.174	6.358	PV	503795	5666570	42.88%	2.404%
49	6.366	6.358	6.510	VV	2152	120098	0.91%	0.051%
50	6.549	6.510	6.626	VV	1256	53131	0.40%	0.023%
51	6.661	6.626	6.793	VV	575489	5755740	43.56%	2.442%
52	6.809	6.793	6.858	VV	840	24940	0.19%	0.011%
53	6.862	6.858	6.878	VV	698	5834	0.04%	0.002%
54	6.887	6.878	6.898	VV	454	4356	0.03%	0.002%
55	6.901	6.898	6.935	VV	406	7083	0.05%	0.003%
56	6.952	6.935	6.975	VV	322	6420	0.05%	0.003%
57	6.990	6.975	7.021	VV	302	5855	0.04%	0.002%
58	7.025	7.021	7.048	VV	202	2054	0.02%	0.001%
59	7.069	7.048	7.101	VV	200	2923	0.02%	0.001%
60	7.111	7.101	7.150	VV	160	2240	0.02%	0.001%
61	7.162	7.150	7.169	VV	83	419	0.00%	0.000%
62	7.209	7.169	7.271	PV	9111	143842	1.09%	0.061%
63	7.300	7.271	7.428	VV	470639	5343100	40.44%	2.267%
64	7.443	7.428	7.480	VV	2736	67184	0.51%	0.029%
65	7.506	7.480	7.564	VV	2651	93885	0.71%	0.040%
66	7.580	7.564	7.592	VV	1540	23967	0.18%	0.010%
67	7.606	7.592	7.655	VV	1924	39474	0.30%	0.017%
68	7.667	7.655	7.679	VV	747	9089	0.07%	0.004%
69	7.686	7.679	7.690	VV	424	2533	0.02%	0.001%
70	7.701	7.690	7.761	VV	473	13125	0.10%	0.006%
71	7.784	7.761	7.821	VV	657	12356	0.09%	0.005%
72	7.824	7.821	7.874	VV	242	3265	0.02%	0.001%
73	8.178	8.156	8.211	VV	1473	33014	0.25%	0.014%
74	8.235	8.211	8.328	VV	1229	37957	0.29%	0.016%
75	8.344	8.328	8.365	VV	351	6345	0.05%	0.003%
76	8.394	8.365	8.458	VV	1001	22495	0.17%	0.010%
77	8.489	8.458	8.571	VV	580174	6140804	46.47%	2.605%
78	8.602	8.571	8.781	VV	555898	6088280	46.08%	2.583%
79	8.900	8.875	9.177	VV	612830	6875540	52.03%	2.917%
80	9.225	9.177	9.291	VV	1385	67268	0.51%	0.029%
81	9.314	9.291	9.384	VV	1866	45375	0.34%	0.019%
82	9.397	9.384	9.431	VV	417	9311	0.07%	0.004%
83	9.438	9.431	9.474	VV	369	6642	0.05%	0.003%
84	9.489	9.474	9.538	VV	278	7527	0.06%	0.003%
85	9.547	9.538	9.597	VV	205	4938	0.04%	0.002%
86	9.614	9.597	9.644	VV	240	3432	0.03%	0.001%
87	9.690	9.644	9.851	PV	542211	6311026	47.76%	2.678%
88	9.869	9.851	9.886	VV	2757	45291	0.34%	0.019%
89	9.908	9.886	9.954	VV	6836	131286	0.99%	0.056%

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Instrument :
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rteres

90	9.978	9.954	10.061	VV	24845	472478	3.58%	0.200%
91	10.093	10.061	10.291	VV	613552	6715632	50	
92	10.318	10.291	10.388	VV	872	26568	0	
93	10.397	10.388	10.415	VV	361	4678	0	
94	10.445	10.415	10.532	VV	1242	34919	0	
95	10.558	10.532	10.669	VV	286	15127	0	
96	10.755	10.669	10.776	VV	604	14180	0.11%	0.006%
97	10.792	10.776	10.809	VV	434	5292	0.04%	0.002%
98	10.831	10.809	10.875	VV	919	14557	0.11%	0.006%
99	10.919	10.875	11.036	PV	2097	52304	0.40%	0.022%
100	11.097	11.036	11.147	VV	513958	5978589	45.25%	2.537%
101	11.173	11.147	11.315	VV	491657	6233040	47.17%	2.645%
102	11.335	11.315	11.431	VV	7189	220884	1.67%	0.094%
103	11.465	11.431	11.496	VV	3248	86312	0.65%	0.037%
104	11.535	11.496	11.602	VV	595058	6925054	52.41%	2.938%
105	11.620	11.602	11.714	VV	1851	80661	0.61%	0.034%
106	11.729	11.714	11.754	VV	926	19030	0.14%	0.008%
107	11.775	11.754	11.791	VV	743	15287	0.12%	0.006%
108	11.855	11.791	11.973	VV	584874	6485716	49.08%	2.752%
109	11.988	11.973	12.005	VV	1068	17324	0.13%	0.007%
110	12.023	12.005	12.042	VV	1067	20059	0.15%	0.009%
111	12.057	12.042	12.073	VV	858	14004	0.11%	0.006%
112	12.092	12.073	12.116	VV	839	16997	0.13%	0.007%
113	12.137	12.116	12.175	VV	713	17500	0.13%	0.007%
114	12.200	12.175	12.239	VV	1054	23104	0.17%	0.010%
115	12.259	12.239	12.285	VV	449	10017	0.08%	0.004%
116	12.300	12.285	12.345	VV	642	14759	0.11%	0.006%
117	12.352	12.345	12.377	VV	338	4881	0.04%	0.002%
118	12.406	12.377	12.430	PV	413	8453	0.06%	0.004%
119	12.459	12.430	12.618	VV	39004	557040	4.22%	0.236%
120	12.664	12.618	12.693	VV	2776	52409	0.40%	0.022%
121	12.724	12.693	12.751	VV	781	21252	0.16%	0.009%
122	12.778	12.751	12.797	VV	931	20262	0.15%	0.009%
123	12.843	12.797	12.888	VV	582456	6962850	52.69%	2.954%
124	12.918	12.888	13.086	VV	512600	6364284	48.16%	2.700%
125	13.108	13.086	13.185	VV	5001	127232	0.96%	0.054%
126	13.216	13.185	13.257	VV	512789	6158202	46.61%	2.613%
127	13.288	13.257	13.414	VV	407408	5184982	39.24%	2.200%
128	13.454	13.414	13.658	VV	573951	6877976	52.05%	2.918%
129	13.688	13.658	13.781	VV	4390	118941	0.90%	0.050%
130	13.793	13.781	13.811	VV	776	12413	0.09%	0.005%
131	13.828	13.811	13.855	VV	1035	20714	0.16%	0.009%
132	13.877	13.855	13.922	VV	1698	36298	0.27%	0.015%
133	13.990	13.922	14.001	VV	1495	33600	0.25%	0.014%
134	14.038	14.001	14.142	VV	542601	6720871	50.86%	2.852%
135	14.162	14.142	14.210	VV	550	16668	0.13%	0.007%
136	14.233	14.210	14.351	VV	924	28161	0.21%	0.012%
137	14.373	14.351	14.385	VV	270	3819	0.03%	0.002%
138	14.437	14.385	14.458	VV	1237	26954	0.20%	0.011%
139	14.473	14.458	14.501	VV	1327	21475	0.16%	0.009%
140	14.548	14.501	14.572	VV	506	13955	0.11%	0.006%
141	14.598	14.572	14.621	VV	2129	27917	0.21%	0.012%

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/04/2024
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Instrument :
FID_E
ClientSampleId :
BP-F8MS

Manual IntegrationsAPPROVED

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rteres

142	14.639	14.621	14.686	VV	484	15207	0.12%	0.006%
143	14.704	14.686	14.782	VV	509	13479	0	
144	14.844	14.782	14.865	PV	310	7369	0	
145	14.876	14.865	14.955	VV	198	6346	0	
146	14.994	14.955	15.055	VV	545	13572	0	
147	15.098	15.055	15.116	PV	395394	4972100	37	
148	15.140	15.116	15.304	VV	933714	13213576	100.00%	5.606%
149	15.320	15.304	15.425	VV	5887	325647	2.46%	0.138%
150	15.433	15.425	15.487	VV	3291	108370	0.82%	0.046%
151	15.519	15.487	15.601	VV	28468	603287	4.57%	0.256%
152	15.611	15.601	15.629	VV	2502	39548	0.30%	0.017%
153	15.656	15.629	15.701	VV	5194	136584	1.03%	0.058%
154	15.726	15.701	15.763	VV	3575	79764	0.60%	0.034%
155	15.776	15.763	15.788	VV	1302	19471	0.15%	0.008%
156	15.794	15.788	15.821	VV	1262	22295	0.17%	0.009%
157	15.835	15.821	15.891	VV	1124	41894	0.32%	0.018%
158	15.924	15.891	15.935	VV	929	23187	0.18%	0.010%
159	15.952	15.935	15.965	VV	893	15180	0.11%	0.006%
160	15.981	15.965	16.007	VV	941	21462	0.16%	0.009%
161	16.041	16.007	16.081	VV	1498	49357	0.37%	0.021%
162	16.160	16.081	16.211	VV	506606	6668818	50.47%	2.829%
163	16.224	16.211	16.270	VV	1272	27607	0.21%	0.012%
164	16.288	16.270	16.331	VV	532	12815	0.10%	0.005%
165	16.346	16.331	16.373	VV	322	5967	0.05%	0.003%
166	16.383	16.373	16.421	VV	185	3433	0.03%	0.001%
167	16.538	16.421	16.577	PV	1799	34314	0.26%	0.015%
168	16.604	16.577	16.614	PV	735	8599	0.07%	0.004%
169	16.661	16.614	16.676	VV	307573	4218412	31.92%	1.790%
170	16.691	16.676	16.910	VV	332320	6695981	50.68%	2.841%
171	16.926	16.910	16.973	VV	6285	204213	1.55%	0.087%
172	16.986	16.973	17.010	VV	4453	91318	0.69%	0.039%
173	17.044	17.010	17.077	VV	203987	3313062	25.07%	1.406%
174	17.109	17.077	17.322	VV	509285	8347867	63.18%	3.542%
175	17.330	17.322	17.428	VV	4216	218433	1.65%	0.093%
176	17.443	17.428	17.456	VV	3464	53445	0.40%	0.023%
177	17.477	17.456	17.511	VV	3390	100236	0.76%	0.043%
178	17.553	17.511	17.618	VV	8534	216050	1.64%	0.092%
179	17.643	17.618	17.686	VV	2068	61334	0.46%	0.026%
180	17.725	17.686	17.745	VV	1061	34829	0.26%	0.015%
181	17.769	17.745	17.806	VV	966	29230	0.22%	0.012%
182	17.882	17.806	17.911	VV	5708	105965	0.80%	0.045%
183	17.996	17.911	18.060	VV	503858	6954752	52.63%	2.951%
184	18.085	18.060	18.112	VV	4546	68572	0.52%	0.029%
185	18.136	18.112	18.185	VV	1356	33592	0.25%	0.014%
186	18.221	18.185	18.247	VV	1111	21230	0.16%	0.009%
187	18.269	18.247	18.278	PV	195	1632	0.01%	0.001%
188	18.311	18.278	18.330	VV	2648	40378	0.31%	0.017%
189	18.356	18.330	18.391	VV	6497	123790	0.94%	0.053%
190	18.428	18.391	18.441	VV	81540	1144272	8.66%	0.485%
191	18.457	18.441	18.655	VV	83686	3309995	25.05%	1.404%
192	18.681	18.655	18.788	VV	83823	2345630	17.75%	0.995%
193	18.827	18.788	18.883	VV	509225	7425388	56.20%	3.150%
194	18.894	18.883	18.904	VV	7160	89469	0.68%	0.038%

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Instrument :
FID_E
ClientSampleId :
BP-F8MS

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/04/2024
Supervised By :Ankita Jodhani 11/04/2024

A B C D E F G H I J

					rteres			
195	18.924	18.904	18.960	VV	7574	207120	1.57%	0.088%
196	18.980	18.960	19.021	VV	4532	143153	1	
197	19.041	19.021	19.071	VV	2775	78099	0	
198	19.104	19.071	19.133	VV	2414	82229	0	
199	19.146	19.133	19.154	VV	1928	23670	0	
200	19.187	19.154	19.199	VV	4549	90725	0	
201	19.219	19.199	19.276	VV	6091	155139	1.17%	0.066%
202	19.307	19.276	19.328	VV	1256	33922	0.26%	0.014%
203	19.351	19.328	19.361	VV	1155	19104	0.14%	0.008%
204	19.390	19.361	19.405	VV	843	21530	0.16%	0.009%
205	19.422	19.405	19.441	VV	1495	22109	0.17%	0.009%
206	19.466	19.441	19.475	VV	483	8988	0.07%	0.004%
207	19.518	19.475	19.548	VV	975	17613	0.13%	0.007%
208	19.610	19.548	19.655	VV	486944	7062616	53.45%	2.997%
209	19.676	19.655	19.700	VV	4203	80496	0.61%	0.034%
210	19.716	19.700	19.748	VV	2033	35634	0.27%	0.015%
211	19.783	19.748	19.813	VV	1237	24917	0.19%	0.011%
212	19.903	19.813	19.931	PV	995	30503	0.23%	0.013%
213	19.972	19.931	20.040	VV	4739	115005	0.87%	0.049%
214	20.092	20.040	20.103	VV	255	7318	0.06%	0.003%
215	20.231	20.103	20.275	PV	3476	145733	1.10%	0.062%
216	20.349	20.275	20.454	VV	472225	7303637	55.27%	3.099%
217	20.504	20.454	20.547	VV	8125	322358	2.44%	0.137%
218	20.700	20.547	20.731	VV	7349	528710	4.00%	0.224%
219	20.878	20.731	20.898	VV	5339	522483	3.95%	0.222%
220	20.925	20.898	20.944	VV	5171	140542	1.06%	0.060%
221	21.074	20.944	21.231	VV	389637	7699641	58.27%	3.267%
222	21.243	21.231	21.287	VV	5473	174156	1.32%	0.074%
223	21.303	21.287	21.341	VV	4724	144713	1.10%	0.061%
224	21.377	21.341	21.389	VV	3855	112113	0.85%	0.048%
225	21.393	21.389	21.440	VV	3660	94943	0.72%	0.040%
226	21.482	21.440	21.519	VV	4573	168783	1.28%	0.072%
227	21.583	21.519	21.600	VV	2541	125480	0.95%	0.053%
228	21.613	21.600	21.671	VV	2455	76709	0.58%	0.033%
229	21.682	21.671	21.695	VV	1123	15391	0.12%	0.007%
230	21.864	21.695	21.887	VV	464	69208	0.52%	0.029%
231	21.955	21.887	22.111	PV	244521	6111694	46.25%	2.593%
			Sum of corrected areas:			235689960		

Aliphatic EPH 100824.M Mon Nov 04 04:47:55 2024

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE110124AL\
Data File : FE050975.D
Signal(s) : FID1B.ch
Acq On : 01 Nov 2024 20:34
Operator : YP\AJ
Sample : P4643-05MSD
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
BP-F8MSD

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 11/04/2024
Supervised By :Ankita Jodhani 11/04/2024

Integration File: sample.E
Quant Time: Nov 04 03:11:17 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 100824.M
Quant Title : GC Extractables
QLast Update : Mon Oct 07 16:32:18 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
9) S	ortho-Terphenyl (SURR)	11.855	6493005	41.185 ug/mlm
Spiked Amount	50.000		Recovery =	82.37%
12) S	1-chlorooctadecane (S...	13.287	5071838	42.875 ug/ml
Spiked Amount	50.000		Recovery =	85.75%
	Target Compounds			
1) T	n-Nonane (C9)	3.243	4756589	33.665 ug/ml
2) T	n-Decane (C10)	4.494	5352712	37.308 ug/ml
3) T	A~Naphthalene (C11.7)	6.204	5609433	39.229 ug/ml
4) T	n-Dodecane (C12)	6.661	5813497	40.390 ug/ml
5) T	A~2-methylnaphthalene...	7.300	5347427	40.364 ug/ml
6) T	n-Tetradecane (C14)	8.488	6285504	43.934 ug/ml
7) T	n-Hexadecane (C16)	10.093	6775320	46.038 ug/ml
8) T	n-Octadecane (C18)	11.535	7025199	47.032 ug/ml
10) T	n-Eicosane (C20)	12.843	7081369	49.382 ug/ml
11) T	n-Heneicosane (C21)	13.453	6810235	48.494 ug/ml
13) T	n-Docosane (C22)	14.038	6786976	48.376 ug/ml
14) T	n-Tetracosane (C24)	15.140	12910154	91.382 ug/mlm
15) T	n-Hexacosane (C26)	16.161	6729829	47.825 ug/mlm
16) T	n-Octacosane (C28)	17.108	7649285	52.274 ug/mlm
17) T	n-Tricontane (C30)	17.995	6920342	43.523 ug/ml
18) T	n-Dotriacontane (C32)	18.827	7134085	44.007 ug/mlm
19) T	n-Tetratriacontane (C34)	19.610	7048213	47.983 ug/ml
20) T	n-Hexatriacontane (C36)	20.350	6999668	55.196 ug/ml
21) T	n-Octatriacontane (C38)	21.075	7009685	56.691 ug/ml
22) T	n-Tetracontane (C40)	21.959	6803930	61.104 ug/ml

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

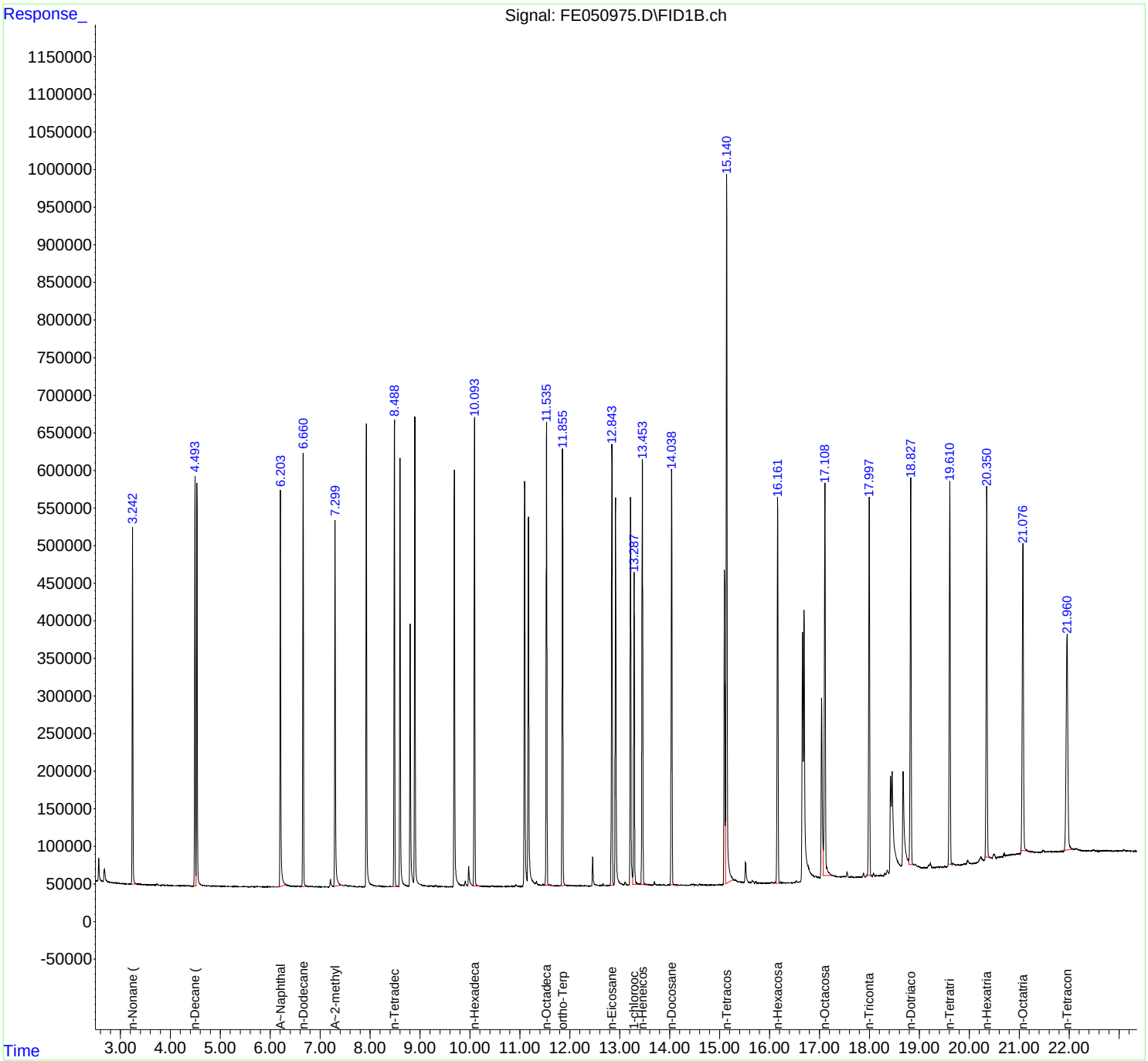
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE110124AL\
Data File : FE050975.D
Signal(s) : FID1B.ch
Acq On : 01 Nov 2024 20:34
Operator : YP\AJ
Sample : P4643-05MSD
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
BP-F8MSD

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 11/04/2024
Supervised By :Ankita Jodhani 11/04/2024

Integration File: sample.E
Quant Time: Nov 04 03:11:17 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 100824.
Quant Title : GC Extractables
QLast Update : Mon Oct 07 16:32:18 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um



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Instrument :
FID_E
ClientSampleId :
BP-F8MSD

rteres

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/04/2024
Supervised By :Ankita Jodhani 11/04/2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE11012
Data File : FE050975.D
Signal(s) : FID1B.ch
Acq On : 01 Nov 2024 20:34
Sample : P4643-05MSD
Misc :
ALS Vial : 21 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 100824.M
Title : GC Extractables

Signal : FID1B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.243	3.204	3.353	BV	469697	4785579	35.38%	1.946%
2	3.364	3.353	3.425	VV	607	17796	0.13%	0.007%
3	3.442	3.425	3.474	VV	297	6394	0.05%	0.003%
4	3.483	3.474	3.508	VV	264	2479	0.02%	0.001%
5	3.518	3.508	3.539	PV	187	1770	0.01%	0.001%
6	3.554	3.539	3.566	PV	208	2462	0.02%	0.001%
7	3.575	3.566	3.597	VV	276	3192	0.02%	0.001%
8	3.609	3.597	3.659	VV	327	5229	0.04%	0.002%
9	3.680	3.659	3.709	PV	250	3676	0.03%	0.001%
10	3.731	3.709	3.821	VV	1879	30035	0.22%	0.012%
11	3.852	3.821	3.907	VV	1060	20644	0.15%	0.008%
12	3.929	3.907	3.988	VV	503	7754	0.06%	0.003%
13	4.032	4.024	4.055	VV	91	1232	0.01%	0.001%
14	4.062	4.055	4.121	VV	127	1756	0.01%	0.001%
15	4.142	4.121	4.197	PV	102	2217	0.02%	0.001%
16	4.227	4.197	4.293	VV	450	11802	0.09%	0.005%
17	4.305	4.293	4.340	VV	207	4029	0.03%	0.002%
18	4.355	4.340	4.410	VV	335	6177	0.05%	0.003%
19	4.435	4.410	4.456	PV	117	1361	0.01%	0.001%
20	4.494	4.456	4.513	PV	545686	5359124	39.62%	2.179%
21	4.533	4.513	4.655	VV	534349	5582200	41.27%	2.270%
22	4.664	4.655	4.758	VV	1134	44428	0.33%	0.018%
23	4.775	4.758	4.791	VV	588	10200	0.08%	0.004%
24	4.796	4.791	4.841	VV	506	11127	0.08%	0.005%
25	4.854	4.841	4.866	VV	393	4817	0.04%	0.002%
26	4.881	4.866	4.948	VV	330	14383	0.11%	0.006%
27	4.953	4.948	4.983	VV	366	5675	0.04%	0.002%
28	5.000	4.983	5.064	VV	349	9325	0.07%	0.004%
29	5.082	5.064	5.134	VV	196	5244	0.04%	0.002%
30	5.156	5.134	5.215	VV	269	7094	0.05%	0.003%
31	5.226	5.215	5.278	VV	125	4208	0.03%	0.002%
32	5.284	5.278	5.321	VV	180	2785	0.02%	0.001%
33	5.328	5.321	5.335	VV	93	670	0.00%	0.000%
34	5.341	5.335	5.404	VV	122	2451	0.02%	0.001%
35	5.468	5.404	5.568	PV	237	11283	0.08%	0.005%
36	5.571	5.568	5.604	VV	131	1448	0.01%	0.001%

Instrument :
FID_E
ClientSampleId :
BP-F8MSD

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/04/2024
Supervised By :Ankita Jodhani 11/04/2024

rteres

37	5.630	5.604	5.703	PV	955	13701	0.10%	0.006%
38	5.725	5.703	5.798	VV	571	17648	0	
39	5.804	5.798	5.884	VV	262	10004	0	
40	5.906	5.884	5.935	VV	267	5376	0	
41	5.957	5.935	6.027	VV	209	6636	0	
42	6.066	6.027	6.084	VV	147	2428	0	
43	6.089	6.084	6.098	VV	95	505	0.00%	0.000%
44	6.103	6.098	6.146	VV	137	2150	0.02%	0.001%
45	6.204	6.146	6.513	PV	524935	5920925	43.77%	2.408%
46	6.549	6.513	6.625	VV	1240	48857	0.36%	0.020%
47	6.661	6.625	6.781	VV	576983	5887433	43.53%	2.394%
48	6.813	6.781	6.875	VV	853	34073	0.25%	0.014%
49	6.894	6.875	6.905	VV	406	6520	0.05%	0.003%
50	6.913	6.905	6.935	VV	361	5507	0.04%	0.002%
51	6.952	6.935	6.972	VV	319	6021	0.04%	0.002%
52	6.983	6.972	7.051	VV	305	8939	0.07%	0.004%
53	7.062	7.051	7.086	VV	145	2337	0.02%	0.001%
54	7.102	7.086	7.128	VV	147	2992	0.02%	0.001%
55	7.133	7.128	7.168	VV	161	2024	0.01%	0.001%
56	7.207	7.168	7.267	PV	9520	151428	1.12%	0.062%
57	7.300	7.267	7.426	VV	485028	5492703	40.61%	2.234%
58	7.442	7.426	7.478	VV	2734	66149	0.49%	0.027%
59	7.506	7.478	7.561	VV	2683	93500	0.69%	0.038%
60	7.578	7.561	7.591	VV	1614	25122	0.19%	0.010%
61	7.605	7.591	7.651	VV	1913	38082	0.28%	0.015%
62	7.667	7.651	7.678	VV	759	10826	0.08%	0.004%
63	7.693	7.678	7.736	VV	741	17078	0.13%	0.007%
64	7.747	7.736	7.757	VV	307	3508	0.03%	0.001%
65	7.782	7.757	7.871	VV	759	19781	0.15%	0.008%
66	8.178	8.154	8.207	VV	1419	31345	0.23%	0.013%
67	8.235	8.207	8.264	VV	1357	27357	0.20%	0.011%
68	8.274	8.264	8.325	VV	522	14144	0.10%	0.006%
69	8.338	8.325	8.361	VV	384	6486	0.05%	0.003%
70	8.394	8.361	8.427	VV	1036	20369	0.15%	0.008%
71	8.437	8.427	8.454	VV	288	4480	0.03%	0.002%
72	8.489	8.454	8.574	VV	617681	6311333	46.66%	2.566%
73	8.602	8.574	8.776	VV	568456	6234167	46.09%	2.535%
74	8.899	8.870	9.180	VV	616697	7026067	51.95%	2.857%
75	9.198	9.180	9.211	VV	1125	19407	0.14%	0.008%
76	9.225	9.211	9.281	VV	1309	39544	0.29%	0.016%
77	9.312	9.281	9.403	VV	1835	52578	0.39%	0.021%
78	9.406	9.403	9.431	VV	387	5077	0.04%	0.002%
79	9.450	9.431	9.474	VV	275	5944	0.04%	0.002%
80	9.496	9.474	9.531	VV	294	6649	0.05%	0.003%
81	9.560	9.531	9.593	VV	197	5004	0.04%	0.002%
82	9.611	9.593	9.649	VV	284	3897	0.03%	0.002%
83	9.689	9.649	9.848	PV	553939	6458554	47.75%	2.626%
84	9.869	9.848	9.885	VV	2710	47145	0.35%	0.019%
85	9.907	9.885	9.953	VV	7231	134091	0.99%	0.055%
86	9.976	9.953	10.061	VV	26841	486365	3.60%	0.198%
87	10.093	10.061	10.230	VV	621427	6873227	50.82%	2.795%
88	10.240	10.230	10.289	VV	965	20359	0.15%	0.008%
89	10.318	10.289	10.349	VV	749	18318	0.14%	0.007%

11

Instrument :
FID_E
ClientSampleId :
BP-F8MSD

rteres

Manual IntegrationsAPPROVED

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90	10.361	10.349	10.378	VV	302	4478	0.03%	0.002%
91	10.398	10.378	10.416	VV	334	6531		
92	10.445	10.416	10.523	VV	1142	31767		
93	10.569	10.523	10.618	VV	279	10895		
94	10.624	10.618	10.674	VV	271	3871		
95	10.726	10.674	10.734	VV	274	3803		
96	10.756	10.734	10.778	VV	542	7954	0.06%	0.003%
97	10.791	10.778	10.811	VV	349	4481	0.03%	0.002%
98	10.830	10.811	10.875	VV	906	13284	0.10%	0.005%
99	10.916	10.875	11.031	PV	2318	53151	0.39%	0.022%
100	11.096	11.031	11.146	VV	540132	6116624	45.22%	2.487%
101	11.172	11.146	11.318	VV	488444	6370245	47.10%	2.590%
102	11.335	11.318	11.435	VV	6976	206158	1.52%	0.084%
103	11.464	11.435	11.496	VV	3113	78512	0.58%	0.032%
104	11.535	11.496	11.603	VV	616092	7103992	52.52%	2.889%
105	11.615	11.603	11.680	VV	1690	54136	0.40%	0.022%
106	11.693	11.680	11.714	VV	843	15031	0.11%	0.006%
107	11.729	11.714	11.763	VV	814	19407	0.14%	0.008%
108	11.775	11.763	11.788	VV	595	8371	0.06%	0.003%
109	11.855	11.788	11.978	VV	580861	6602943	48.82%	2.685%
110	11.987	11.978	12.003	VV	955	12101	0.09%	0.005%
111	12.024	12.003	12.042	VV	1256	20559	0.15%	0.008%
112	12.056	12.042	12.072	VV	766	11773	0.09%	0.005%
113	12.089	12.072	12.117	VV	696	13756	0.10%	0.006%
114	12.138	12.117	12.164	VV	549	10341	0.08%	0.004%
115	12.201	12.164	12.242	VV	958	19262	0.14%	0.008%
116	12.259	12.242	12.280	VV	270	4989	0.04%	0.002%
117	12.301	12.280	12.377	VV	491	12914	0.10%	0.005%
118	12.407	12.377	12.418	PV	222	2894	0.02%	0.001%
119	12.459	12.418	12.618	VV	38249	549428	4.06%	0.223%
120	12.664	12.618	12.690	VV	2803	46660	0.34%	0.019%
121	12.718	12.690	12.749	VV	688	18609	0.14%	0.008%
122	12.778	12.749	12.801	VV	887	19523	0.14%	0.008%
123	12.843	12.801	12.888	VV	585823	7116414	52.61%	2.894%
124	12.917	12.888	13.082	VV	516996	6469607	47.83%	2.631%
125	13.107	13.082	13.179	VV	5101	121085	0.90%	0.049%
126	13.216	13.179	13.256	VV	514217	6281845	46.44%	2.554%
127	13.287	13.256	13.380	VV	417813	5220631	38.60%	2.123%
128	13.395	13.380	13.418	VV	2293	45714	0.34%	0.019%
129	13.453	13.418	13.504	VV	570183	6881178	50.87%	2.798%
130	13.511	13.504	13.563	VV	1988	58491	0.43%	0.024%
131	13.577	13.563	13.658	VV	1356	53656	0.40%	0.022%
132	13.690	13.658	13.778	VV	4568	111311	0.82%	0.045%
133	13.827	13.778	13.848	VV	899	26384	0.20%	0.011%
134	13.877	13.848	13.923	VV	1545	32269	0.24%	0.013%
135	13.989	13.923	14.004	VV	1329	29801	0.22%	0.012%
136	14.038	14.004	14.207	VV	551147	6857135	50.70%	2.788%
137	14.235	14.207	14.283	VV	792	15601	0.12%	0.006%
138	14.293	14.283	14.335	VV	175	4575	0.03%	0.002%
139	14.369	14.335	14.406	VV	160	5645	0.04%	0.002%
140	14.437	14.406	14.456	VV	1188	20571	0.15%	0.008%
141	14.473	14.456	14.502	VV	1284	20548	0.15%	0.008%

Instrument :
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ClientSampleId :
BP-F8MSD

Manual IntegrationsAPPROVED

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rteres

142	14.547	14.502	14.571	VV	404	10034	0.07%	0.004%
143	14.597	14.571	14.620	VV	1962	25168		
144	14.637	14.620	14.691	VV	488	14215		
145	14.707	14.691	14.794	VV	359	9547		
146	14.803	14.794	14.824	PV	117	1216		
147	14.839	14.824	14.878	VV	336	5236		
148	14.888	14.878	14.897	VV	66	409	0.00%	0.000%
149	14.946	14.897	14.958	VV	177	2343	0.02%	0.001%
150	14.994	14.958	15.016	PV	543	9762	0.07%	0.004%
151	15.026	15.016	15.050	VV	182	2176	0.02%	0.001%
152	15.097	15.050	15.116	PV	418344	5176134	38.27%	2.105%
153	15.140	15.116	15.307	VV	948243	13525830	100.00%	5.500%
154	15.318	15.307	15.388	VV	5935	227868	1.68%	0.093%
155	15.399	15.388	15.423	VV	3675	74083	0.55%	0.030%
156	15.433	15.423	15.484	VV	3119	102569	0.76%	0.042%
157	15.518	15.484	15.602	VV	28835	610015	4.51%	0.248%
158	15.615	15.602	15.628	VV	2300	34779	0.26%	0.014%
159	15.655	15.628	15.701	VV	5173	134891	1.00%	0.055%
160	15.725	15.701	15.813	VV	3172	106174	0.78%	0.043%
161	15.830	15.813	15.848	VV	1015	19401	0.14%	0.008%
162	15.856	15.848	15.885	VV	901	19075	0.14%	0.008%
163	15.907	15.885	15.922	VV	836	17214	0.13%	0.007%
164	16.043	15.922	16.088	VV	1281	79601	0.59%	0.032%
165	16.162	16.088	16.206	VV	511468	6760153	49.98%	2.749%
166	16.222	16.206	16.274	VV	1135	26145	0.19%	0.011%
167	16.290	16.274	16.314	VV	340	6590	0.05%	0.003%
168	16.325	16.314	16.330	VV	112	1229	0.01%	0.000%
169	16.352	16.330	16.416	VV	260	7866	0.06%	0.003%
170	16.536	16.416	16.575	PV	1708	35322	0.26%	0.014%
171	16.605	16.575	16.614	PV	789	10139	0.07%	0.004%
172	16.660	16.614	16.675	VV	331931	4540418	33.57%	1.846%
173	16.691	16.675	16.900	VV	358724	6953836	51.41%	2.828%
174	16.925	16.900	16.961	VV	6630	213906	1.58%	0.087%
175	16.984	16.961	17.009	VV	4812	128521	0.95%	0.052%
176	17.043	17.009	17.077	VV	240859	3745035	27.69%	1.523%
177	17.108	17.077	17.141	VV	523896	7617120	56.32%	3.097%
178	17.149	17.141	17.344	VV	16451	927240	6.86%	0.377%
179	17.369	17.344	17.426	VV	3735	164943	1.22%	0.067%
180	17.441	17.426	17.457	VV	3437	57745	0.43%	0.023%
181	17.476	17.457	17.507	VV	3461	93150	0.69%	0.038%
182	17.552	17.507	17.618	VV	8891	227146	1.68%	0.092%
183	17.644	17.618	17.684	VV	2064	60203	0.45%	0.024%
184	17.735	17.684	17.747	VV	1037	35395	0.26%	0.014%
185	17.787	17.747	17.806	VV	746	25285	0.19%	0.010%
186	17.882	17.806	17.911	VV	5570	106245	0.79%	0.043%
187	17.996	17.911	18.061	VV	507244	7065295	52.24%	2.873%
188	18.084	18.061	18.113	VV	4426	67689	0.50%	0.028%
189	18.135	18.113	18.154	VV	1378	23073	0.17%	0.009%
190	18.168	18.154	18.181	VV	674	8869	0.07%	0.004%
191	18.220	18.181	18.254	VV	1047	19533	0.14%	0.008%
192	18.312	18.254	18.329	PV	3003	46821	0.35%	0.019%
193	18.356	18.329	18.389	VV	6830	144479	1.07%	0.059%
194	18.423	18.389	18.437	VV	128431	1815490	13.42%	0.738%

11

Instrument :
FID_E
ClientSampleId :
BP-F8MSD

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/04/2024
Supervised By :Ankita Jodhani 11/04/2024

A B C D E F G H I J

rteres

195	18.454	18.437	18.622	VV	135537	4578987	33.85%	1.862%
196	18.676	18.622	18.787	VV	134802	3829023	28	
197	18.827	18.787	18.904	VV	523564	7823265	57	
198	18.922	18.904	19.042	VV	9634	523604	3	
199	19.052	19.042	19.081	VV	3851	84259	0	
200	19.107	19.081	19.126	VV	3601	92643	0	
201	19.139	19.126	19.148	VV	3248	39253	0.29%	0.016%
202	19.218	19.148	19.278	VV	7857	340364	2.52%	0.138%
203	19.309	19.278	19.322	VV	2065	48891	0.36%	0.020%
204	19.369	19.322	19.399	VV	1693	68022	0.50%	0.028%
205	19.424	19.399	19.444	VV	1741	34028	0.25%	0.014%
206	19.466	19.444	19.486	VV	944	18497	0.14%	0.008%
207	19.516	19.486	19.541	VV	1077	24458	0.18%	0.010%
208	19.611	19.541	19.654	VV	514554	7226767	53.43%	2.939%
209	19.674	19.654	19.698	VV	4182	81611	0.60%	0.033%
210	19.715	19.698	19.748	VV	2244	47521	0.35%	0.019%
211	19.780	19.748	19.818	VV	1411	35165	0.26%	0.014%
212	19.896	19.818	19.929	VV	1051	36754	0.27%	0.015%
213	19.973	19.929	20.048	VV	5015	132656	0.98%	0.054%
214	20.055	20.048	20.068	VV	435	3808	0.03%	0.002%
215	20.084	20.068	20.097	VV	371	5113	0.04%	0.002%
216	20.230	20.097	20.294	VV	7290	308454	2.28%	0.125%
217	20.350	20.294	20.458	VV	499260	7495879	55.42%	3.048%
218	20.504	20.458	20.538	VV	8090	290651	2.15%	0.118%
219	20.654	20.538	20.666	VV	4116	294262	2.18%	0.120%
220	20.700	20.666	20.733	VV	7391	219257	1.62%	0.089%
221	20.802	20.733	20.822	VV	4909	254190	1.88%	0.103%
222	20.886	20.822	20.918	VV	4993	276830	2.05%	0.113%
223	20.989	20.918	21.001	VV	4836	234498	1.73%	0.095%
224	21.075	21.001	21.305	VV	417590	8178150	60.46%	3.326%
225	21.315	21.305	21.356	VV	3939	112616	0.83%	0.046%
226	21.381	21.356	21.412	VV	3325	104169	0.77%	0.042%
227	21.482	21.412	21.534	VV	4621	230791	1.71%	0.094%
228	21.612	21.534	21.660	VV	2022	150377	1.11%	0.061%
229	21.717	21.660	21.729	VV	1016	44808	0.33%	0.018%
230	21.742	21.729	21.752	VV	792	10563	0.08%	0.004%
231	21.766	21.752	21.790	VV	620	11862	0.09%	0.005%
232	21.863	21.790	21.875	VV	354	16797	0.12%	0.007%
233	21.959	21.875	22.104	PV	285950	6884583	50.90%	2.800%

Sum of corrected areas: 245913151

Aliphatic EPH 100824.M Mon Nov 04 04:48:15 2024

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

Manual Integration Report

Sequence:	FE100824AL	Instrument	FID_e

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
10 PPM ALIPHATIC HC	FE050538.D	n-Octatriacontane (C38)	yogesh	10/8/2024 8:01:13 AM	Ankita	10/8/2024 9:52:52	Peak Integrated by Software
5 PPM ALIPHATIC HC	FE050539.D	n-Tetracontane (C40)	yogesh	10/8/2024 8:01:15 AM	Ankita	10/8/2024 9:52:53	Peak Integrated by Software

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Manual Integration Report

Sequence:	FE110124AL	Instrument	FID_e

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
20 PPM ALIPHATIC HC	FE050961.D	n-Hexacosane (C26)	Yogesh	11/4/2024 9:44:17 AM	Ankita	11/4/2024 10:05:19	Peak Integrated by Software
20 PPM ALIPHATIC HC	FE050961.D	n-Tetracosane (C24)	Yogesh	11/4/2024 9:44:17 AM	Ankita	11/4/2024 10:05:19	Peak Integrated by Software
20 PPM ALIPHATIC HC	FE050964.D	n-Docosane (C22)	Yogesh	11/4/2024 9:44:19 AM	Ankita	11/4/2024 10:05:21	Peak Integrated by Software
20 PPM ALIPHATIC HC	FE050964.D	ortho-Terphenyl (SURR)	Yogesh	11/4/2024 9:44:19 AM	Ankita	11/4/2024 10:05:21	Peak Integrated by Software
PB164589BL	FE050965.D	ortho-Terphenyl (SURR)	Yogesh	11/4/2024 9:44:22 AM	Ankita	11/4/2024 10:05:23	Peak Integrated by Software
PB164589BS	FE050966.D	n-Hexacosane (C26)	Yogesh	11/4/2024 9:44:24 AM	Ankita	11/4/2024 10:05:26	Peak Integrated by Software
PB164589BS	FE050966.D	n-Octacosane (C28)	Yogesh	11/4/2024 9:44:24 AM	Ankita	11/4/2024 10:05:26	Peak Integrated by Software
PB164589BS	FE050966.D	n-Tetracosane (C24)	Yogesh	11/4/2024 9:44:24 AM	Ankita	11/4/2024 10:05:26	Peak Integrated by Software
PB164589BSD	FE050967.D	n-Hexacosane (C26)	Yogesh	11/4/2024 9:44:26 AM	Ankita	11/4/2024 10:05:28	Peak Integrated by Software
PB164589BSD	FE050967.D	n-Octacosane (C28)	Yogesh	11/4/2024 9:44:26 AM	Ankita	11/4/2024 10:05:28	Peak Integrated by Software
PB164589BSD	FE050967.D	n-Tetracosane (C24)	Yogesh	11/4/2024 9:44:26 AM	Ankita	11/4/2024 10:05:28	Peak Integrated by Software
PB164589BSD	FE050967.D	ortho-Terphenyl (SURR)	Yogesh	11/4/2024 9:44:26 AM	Ankita	11/4/2024 10:05:28	Peak Integrated by Software
P4640-01	FE050968.D	ortho-Terphenyl (SURR)	Yogesh	11/4/2024 9:44:28 AM	Ankita	11/4/2024 10:05:30	Peak Integrated by Software

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Manual Integration Report

Sequence:	FE110124AL	Instrument	FID_e

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
P4640-02	FE050969.D	ortho-Terphenyl (SURR)	Yogesh	11/4/2024 9:44:29 AM	Ankita	11/4/2024 10:05:32	Peak Integrated by Software
P4643-01	FE050970.D	ortho-Terphenyl (SURR)	Yogesh	11/4/2024 9:44:31 AM	Ankita	11/4/2024 10:05:33	Peak Integrated by Software
P4643-02	FE050971.D	ortho-Terphenyl (SURR)	Yogesh	11/4/2024 9:44:33 AM	Ankita	11/4/2024 10:05:35	Peak Integrated by Software
P4643-05	FE050972.D	ortho-Terphenyl (SURR)	Yogesh	11/4/2024 9:44:35 AM	Ankita	11/4/2024 10:05:37	Peak Integrated by Software
P4643-05D	FE050973.D	ortho-Terphenyl (SURR)	Yogesh	11/4/2024 9:44:37 AM	Ankita	11/4/2024 10:05:39	Peak Integrated by Software
P4643-05MS	FE050974.D	n-Dotriacontane (C32)	Yogesh	11/4/2024 9:44:39 AM	Ankita	11/4/2024 10:05:41	Peak Integrated by Software
P4643-05MS	FE050974.D	n-Hexacosane (C26)	Yogesh	11/4/2024 9:44:39 AM	Ankita	11/4/2024 10:05:41	Peak Integrated by Software
P4643-05MS	FE050974.D	n-Octacosane (C28)	Yogesh	11/4/2024 9:44:39 AM	Ankita	11/4/2024 10:05:41	Peak Integrated by Software
P4643-05MS	FE050974.D	n-Tetracosane (C24)	Yogesh	11/4/2024 9:44:39 AM	Ankita	11/4/2024 10:05:41	Peak Integrated by Software
P4643-05MS	FE050974.D	n-Tetratriacontane (C34)	Yogesh	11/4/2024 9:44:39 AM	Ankita	11/4/2024 10:05:41	Peak Integrated by Software
P4643-05MS	FE050974.D	ortho-Terphenyl (SURR)	Yogesh	11/4/2024 9:44:39 AM	Ankita	11/4/2024 10:05:41	Peak Integrated by Software
P4643-05MSD	FE050975.D	n-Dotriacontane (C32)	Yogesh	11/4/2024 9:44:41 AM	Ankita	11/4/2024 10:05:43	Peak Integrated by Software
P4643-05MSD	FE050975.D	n-Hexacosane (C26)	Yogesh	11/4/2024 9:44:41 AM	Ankita	11/4/2024 10:05:43	Peak Integrated by Software

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Manual Integration Report

Sequence:	FE110124AL	Instrument	FID_e

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
P4643-05MSD	FE050975.D	n-Octacosane (C28)	Yogesh	11/4/2024 9:44:41 AM	Ankita	11/4/2024 10:05:43	Peak Integrated by Software
P4643-05MSD	FE050975.D	n-Tetracosane (C24)	Yogesh	11/4/2024 9:44:41 AM	Ankita	11/4/2024 10:05:43	Peak Integrated by Software
P4643-05MSD	FE050975.D	ortho-Terphenyl (SURR)	Yogesh	11/4/2024 9:44:41 AM	Ankita	11/4/2024 10:05:43	Peak Integrated by Software
P4643-06	FE050976.D	ortho-Terphenyl (SURR)	Yogesh	11/4/2024 9:44:42 AM	Ankita	11/4/2024 10:05:44	Peak Integrated by Software
P4643-09	FE050977.D	ortho-Terphenyl (SURR)	Yogesh	11/4/2024 9:44:44 AM	Ankita	11/4/2024 10:05:45	Peak Integrated by Software
P4643-10	FE050978.D	ortho-Terphenyl (SURR)	Yogesh	11/4/2024 9:44:45 AM	Ankita	11/4/2024 10:05:47	Peak Integrated by Software
20 PPM ALIPHATIC HC	FE050980.D	A~2-methylnaphthalene (C12.89)	Yogesh	11/4/2024 9:44:47 AM	Ankita	11/4/2024 10:05:48	Peak Integrated by Software
20 PPM ALIPHATIC HC	FE050980.D	n-Docosane (C22)	Yogesh	11/4/2024 9:44:47 AM	Ankita	11/4/2024 10:05:48	Peak Integrated by Software
20 PPM ALIPHATIC HC	FE050980.D	n-Hexacosane (C26)	Yogesh	11/4/2024 9:44:47 AM	Ankita	11/4/2024 10:05:48	Peak Integrated by Software
20 PPM ALIPHATIC HC	FE050980.D	n-Tetracosane (C24)	Yogesh	11/4/2024 9:44:47 AM	Ankita	11/4/2024 10:05:48	Peak Integrated by Software
20 PPM ALIPHATIC HC	FE050980.D	ortho-Terphenyl (SURR)	Yogesh	11/4/2024 9:44:47 AM	Ankita	11/4/2024 10:05:48	Peak Integrated by Software
P4645-01	FE050981.D	ortho-Terphenyl (SURR)	Yogesh	11/4/2024 9:44:49 AM	Ankita	11/4/2024 10:05:50	Peak Integrated by Software
P4645-02	FE050982.D	ortho-Terphenyl (SURR)	Yogesh	11/4/2024 9:44:50 AM	Ankita	11/4/2024 10:05:52	Peak Integrated by Software

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Manual Integration Report

Sequence:	FE110124AL	Instrument	FID_e

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
P4659-01	FE050983.D	ortho-Terphenyl (SURR)	Yogesh	11/4/2024 9:44:52 AM	Ankita	11/4/2024 10:05:54	Peak Integrated by Software
P4659-02	FE050984.D	ortho-Terphenyl (SURR)	Yogesh	11/4/2024 9:44:54 AM	Ankita	11/4/2024 10:06:27	Peak Integrated by Software
P4663-02	FE050985.D	ortho-Terphenyl (SURR)	Yogesh	11/4/2024 9:44:55 AM	Ankita	11/4/2024 10:05:56	Peak Integrated by Software
P4663-04	FE050986.D	ortho-Terphenyl (SURR)	Yogesh	11/4/2024 9:44:57 AM	Ankita	11/4/2024 10:05:58	Peak Integrated by Software
P4663-06	FE050987.D	1-chlorooctadecane (SURR)	Yogesh	11/4/2024 9:44:58 AM	Ankita	11/4/2024 10:05:59	Peak Integrated by Software
P4663-06	FE050987.D	ortho-Terphenyl (SURR)	Yogesh	11/4/2024 9:44:58 AM	Ankita	11/4/2024 10:05:59	Peak Integrated by Software
P4663-08	FE050988.D	ortho-Terphenyl (SURR)	Yogesh	11/4/2024 9:45:00 AM	Ankita	11/4/2024 10:06:02	Peak Integrated by Software
20 PPM ALIPHATIC HC	FE050990.D	n-Docosane (C22)	Yogesh	11/4/2024 9:45:01 AM	Ankita	11/4/2024 10:06:03	Peak Integrated by Software
20 PPM ALIPHATIC HC	FE050990.D	n-Hexacosane (C26)	Yogesh	11/4/2024 9:45:01 AM	Ankita	11/4/2024 10:06:03	Peak Integrated by Software
20 PPM ALIPHATIC HC	FE050990.D	n-Hexatriacontane (C36)	Yogesh	11/4/2024 9:45:01 AM	Ankita	11/4/2024 10:06:03	Peak Integrated by Software
20 PPM ALIPHATIC HC	FE050990.D	n-Tetracosane (C24)	Yogesh	11/4/2024 9:45:01 AM	Ankita	11/4/2024 10:06:03	Peak Integrated by Software
20 PPM ALIPHATIC HC	FE050990.D	ortho-Terphenyl (SURR)	Yogesh	11/4/2024 9:45:01 AM	Ankita	11/4/2024 10:06:03	Peak Integrated by Software

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Manual Integration Report

Sequence:	FE110124AL	Instrument	FID_e

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

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

Manual Integration Report

Sequence:	FE110524AL	Instrument	FID_e

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
20 PPM ALIPHATIC HC	FE051023.D	n-Hexacosane (C26)	yogesh	11/6/2024 7:42:29 AM	Ankita	11/6/2024 9:48:47	Peak Integrated by Software
20 PPM ALIPHATIC HC	FE051023.D	n-Hexatriacontane (C36)	yogesh	11/6/2024 7:42:29 AM	Ankita	11/6/2024 9:48:47	Peak Integrated by Software
20 PPM ALIPHATIC HC	FE051023.D	n-Tetracosane (C24)	yogesh	11/6/2024 7:42:29 AM	Ankita	11/6/2024 9:48:47	Peak Integrated by Software
20 PPM ALIPHATIC HC	FE051023.D	ortho-Terphenyl (SURR)	yogesh	11/6/2024 7:42:29 AM	Ankita	11/6/2024 9:48:47	Peak Integrated by Software
P4663-06DL	FE051024.D	ortho-Terphenyl (SURR)	yogesh	11/6/2024 7:42:33 AM	Ankita	11/6/2024 9:48:49	Peak Integrated by Software
P4679-01DL	FE051025.D	ortho-Terphenyl (SURR)	yogesh	11/6/2024 7:42:46 AM	Ankita	11/6/2024 9:48:50	Peak Integrated by Software
20 PPM ALIPHATIC HC	FE051027.D	n-Hexacosane (C26)	yogesh	11/6/2024 7:42:49 AM	Ankita	11/6/2024 9:48:52	Peak Integrated by Software
20 PPM ALIPHATIC HC	FE051027.D	n-Octatriacontane (C38)	yogesh	11/6/2024 7:42:49 AM	Ankita	11/6/2024 9:48:52	Peak Integrated by Software
20 PPM ALIPHATIC HC	FE051027.D	n-Tetracontane (C40)	yogesh	11/6/2024 7:42:49 AM	Ankita	11/6/2024 9:48:52	Peak Integrated by Software
20 PPM ALIPHATIC HC	FE051027.D	n-Tetracosane (C24)	yogesh	11/6/2024 7:42:49 AM	Ankita	11/6/2024 9:48:52	Peak Integrated by Software
20 PPM ALIPHATIC HC	FE051027.D	ortho-Terphenyl (SURR)	yogesh	11/6/2024 7:42:49 AM	Ankita	11/6/2024 9:48:52	Peak Integrated by Software
PB164681BL	FE051028.D	ortho-Terphenyl (SURR)	yogesh	11/6/2024 7:42:52 AM	Ankita	11/6/2024 9:48:54	Peak Integrated by Software
PB164681BS	FE051029.D	n-Hexacosane (C26)	yogesh	11/6/2024 7:42:54 AM	Ankita	11/6/2024 9:48:55	Peak Integrated by Software

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Manual Integration Report

Sequence:	FE110524AL	Instrument	FID_e

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
PB164681BS	FE051029.D	n-Octacosane (C28)	yogesh	11/6/2024 7:42:54 AM	Ankita	11/6/2024 9:48:55	Peak Integrated by Software
PB164681BS	FE051029.D	n-Tetracosane (C24)	yogesh	11/6/2024 7:42:54 AM	Ankita	11/6/2024 9:48:55	Peak Integrated by Software
PB164681BS	FE051029.D	ortho-Terphenyl (SURR)	yogesh	11/6/2024 7:42:54 AM	Ankita	11/6/2024 9:48:55	Peak Integrated by Software
PB164681BSD	FE051030.D	n-Hexacosane (C26)	yogesh	11/6/2024 7:42:56 AM	Ankita	11/6/2024 9:48:56	Peak Integrated by Software
PB164681BSD	FE051030.D	n-Hexatriacontane (C36)	yogesh	11/6/2024 7:42:56 AM	Ankita	11/6/2024 9:48:56	Peak Integrated by Software
PB164681BSD	FE051030.D	n-Octacosane (C28)	yogesh	11/6/2024 7:42:56 AM	Ankita	11/6/2024 9:48:56	Peak Integrated by Software
PB164681BSD	FE051030.D	n-Octatriacontane (C38)	yogesh	11/6/2024 7:42:56 AM	Ankita	11/6/2024 9:48:56	Peak Integrated by Software
PB164681BSD	FE051030.D	n-Tetracontane (C40)	yogesh	11/6/2024 7:42:56 AM	Ankita	11/6/2024 9:48:56	Peak Integrated by Software
PB164681BSD	FE051030.D	n-Tetracosane (C24)	yogesh	11/6/2024 7:42:56 AM	Ankita	11/6/2024 9:48:56	Peak Integrated by Software
PB164681BSD	FE051030.D	n-Tetratriacontane (C34)	yogesh	11/6/2024 7:42:56 AM	Ankita	11/6/2024 9:48:56	Peak Integrated by Software
PB164681BSD	FE051030.D	ortho-Terphenyl (SURR)	yogesh	11/6/2024 7:42:56 AM	Ankita	11/6/2024 9:48:56	Peak Integrated by Software
P4682-01	FE051031.D	ortho-Terphenyl (SURR)	yogesh	11/6/2024 7:42:58 AM	Ankita	11/6/2024 9:48:58	Peak Integrated by Software
P4693-01	FE051032.D	ortho-Terphenyl (SURR)	yogesh	11/6/2024 7:42:59 AM	Ankita	11/6/2024 9:49:00	Peak Integrated by Software

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Manual Integration Report

Sequence:	FE110524AL	Instrument	FID_e

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
P4693-01D	FE051033.D	ortho-Terphenyl (SURR)	yogesh	11/6/2024 7:43:01 AM	Ankita	11/6/2024 9:49:01	Peak Integrated by Software
P4693-01MS	FE051034.D	n-Eicosane (C20)	yogesh	11/6/2024 7:43:04 AM	Ankita	11/6/2024 9:49:03	Peak Integrated by Software
P4693-01MS	FE051034.D	n-Hexacosane (C26)	yogesh	11/6/2024 7:43:04 AM	Ankita	11/6/2024 9:49:03	Peak Integrated by Software
P4693-01MS	FE051034.D	n-Hexatriacontane (C36)	yogesh	11/6/2024 7:43:04 AM	Ankita	11/6/2024 9:49:03	Peak Integrated by Software
P4693-01MS	FE051034.D	n-Octacosane (C28)	yogesh	11/6/2024 7:43:04 AM	Ankita	11/6/2024 9:49:03	Peak Integrated by Software
P4693-01MS	FE051034.D	n-Octatriacontane (C38)	yogesh	11/6/2024 7:43:04 AM	Ankita	11/6/2024 9:49:03	Peak Integrated by Software
P4693-01MS	FE051034.D	n-Tetracontane (C40)	yogesh	11/6/2024 7:43:04 AM	Ankita	11/6/2024 9:49:03	Peak Integrated by Software
P4693-01MS	FE051034.D	n-Tetracosane (C24)	yogesh	11/6/2024 7:43:04 AM	Ankita	11/6/2024 9:49:03	Peak Integrated by Software
P4693-01MS	FE051034.D	n-Tetratriacontane (C34)	yogesh	11/6/2024 7:43:04 AM	Ankita	11/6/2024 9:49:03	Peak Integrated by Software
P4693-01MS	FE051034.D	ortho-Terphenyl (SURR)	yogesh	11/6/2024 7:43:04 AM	Ankita	11/6/2024 9:49:03	Peak Integrated by Software
P4693-01MSD	FE051035.D	n-Eicosane (C20)	yogesh	11/6/2024 7:43:06 AM	Ankita	11/6/2024 9:49:04	Peak Integrated by Software
P4693-01MSD	FE051035.D	n-Hexacosane (C26)	yogesh	11/6/2024 7:43:06 AM	Ankita	11/6/2024 9:49:04	Peak Integrated by Software
P4693-01MSD	FE051035.D	n-Octacosane (C28)	yogesh	11/6/2024 7:43:06 AM	Ankita	11/6/2024 9:49:04	Peak Integrated by Software

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Manual Integration Report

Sequence:	FE110524AL	Instrument	FID_e

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
P4693-01MSD	FE051035.D	n-Tetracontane (C40)	yogesh	11/6/2024 7:43:06 AM	Ankita	11/6/2024 9:49:04	Peak Integrated by Software
P4693-01MSD	FE051035.D	n-Tetracosane (C24)	yogesh	11/6/2024 7:43:06 AM	Ankita	11/6/2024 9:49:04	Peak Integrated by Software
P4693-01MSD	FE051035.D	ortho-Terphenyl (SURR)	yogesh	11/6/2024 7:43:06 AM	Ankita	11/6/2024 9:49:04	Peak Integrated by Software
P4693-02	FE051036.D	1-chlorooctadecane (SURR)	yogesh	11/6/2024 7:43:08 AM	Ankita	11/6/2024 9:49:06	Peak Integrated by Software
P4693-02	FE051036.D	ortho-Terphenyl (SURR)	yogesh	11/6/2024 7:43:08 AM	Ankita	11/6/2024 9:49:06	Peak Integrated by Software
P4693-05	FE051037.D	ortho-Terphenyl (SURR)	yogesh	11/6/2024 7:43:09 AM	Ankita	11/6/2024 9:49:07	Peak Integrated by Software
P4693-06	FE051038.D	ortho-Terphenyl (SURR)	yogesh	11/6/2024 7:43:11 AM	Ankita	11/6/2024 9:49:09	Peak Integrated by Software
P4694-05	FE051039.D	ortho-Terphenyl (SURR)	yogesh	11/6/2024 7:43:13 AM	Ankita	11/6/2024 9:49:10	Peak Integrated by Software
P4694-06	FE051040.D	ortho-Terphenyl (SURR)	yogesh	11/6/2024 7:43:15 AM	Ankita	11/6/2024 9:49:12	Peak Integrated by Software
P4695-02	FE051042.D	ortho-Terphenyl (SURR)	yogesh	11/6/2024 7:43:17 AM	Ankita	11/6/2024 9:49:33	Peak Integrated by Software
P4697-01	FE051043.D	ortho-Terphenyl (SURR)	yogesh	11/6/2024 7:43:19 AM	Ankita	11/6/2024 9:49:34	Peak Integrated by Software
P4697-02	FE051044.D	ortho-Terphenyl (SURR)	yogesh	11/6/2024 7:43:20 AM	Ankita	11/6/2024 9:49:36	Peak Integrated by Software
P4701-01	FE051045.D	ortho-Terphenyl (SURR)	yogesh	11/6/2024 7:43:22 AM	Ankita	11/6/2024 9:49:37	Peak Integrated by Software

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Manual Integration Report

Sequence:	FE110524AL	Instrument	FID_e

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
P4701-02	FE051046.D	ortho-Terphenyl (SURR)	yogesh	11/6/2024 7:43:24 AM	Ankita	11/6/2024 9:49:38	Peak Integrated by Software
P4701-05	FE051047.D	ortho-Terphenyl (SURR)	yogesh	11/6/2024 7:43:26 AM	Ankita	11/6/2024 9:49:40	Peak Integrated by Software
20 PPM ALIPHATIC HC	FE051049.D	n-Hexacosane (C26)	yogesh	11/6/2024 7:43:28 AM	Ankita	11/6/2024 9:49:41	Peak Integrated by Software
20 PPM ALIPHATIC HC	FE051049.D	n-Octatriacontane (C38)	yogesh	11/6/2024 7:43:28 AM	Ankita	11/6/2024 9:49:41	Peak Integrated by Software
20 PPM ALIPHATIC HC	FE051049.D	n-Tetracontane (C40)	yogesh	11/6/2024 7:43:28 AM	Ankita	11/6/2024 9:49:41	Peak Integrated by Software
20 PPM ALIPHATIC HC	FE051049.D	n-Tetracosane (C24)	yogesh	11/6/2024 7:43:28 AM	Ankita	11/6/2024 9:49:41	Peak Integrated by Software
20 PPM ALIPHATIC HC	FE051049.D	ortho-Terphenyl (SURR)	yogesh	11/6/2024 7:43:28 AM	Ankita	11/6/2024 9:49:41	Peak Integrated by Software
P4701-06	FE051050.D	ortho-Terphenyl (SURR)	yogesh	11/6/2024 7:43:34 AM	Ankita	11/6/2024 9:49:43	Peak Integrated by Software
P4685-01	FE051051.D	ortho-Terphenyl (SURR)	yogesh	11/6/2024 7:43:36 AM	Ankita	11/6/2024 9:49:44	Peak Integrated by Software
P4685-02	FE051052.D	ortho-Terphenyl (SURR)	yogesh	11/6/2024 7:43:38 AM	Ankita	11/6/2024 9:49:46	Peak Integrated by Software
P4694-01	FE051053.D	ortho-Terphenyl (SURR)	yogesh	11/6/2024 7:43:40 AM	Ankita	11/6/2024 9:49:48	Peak Integrated by Software
P4694-02	FE051054.D	ortho-Terphenyl (SURR)	yogesh	11/6/2024 7:43:44 AM	Ankita	11/6/2024 9:49:50	Peak Integrated by Software
20 PPM ALIPHATIC HC	FE051056.D	n-Hexacosane (C26)	yogesh	11/6/2024 7:43:46 AM	Ankita	11/6/2024 9:49:51	Peak Integrated by Software

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Manual Integration Report

Sequence:	FE110524AL	Instrument	FID_e

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
20 PPM ALIPHATIC HC	FE051056.D	n-Tetracosane (C24)	yogesh	11/6/2024 7:43:46 AM	Ankita	11/6/2024 9:49:51	Peak Integrated by Software
20 PPM ALIPHATIC HC	FE051056.D	ortho-Terphenyl (SURR)	yogesh	11/6/2024 7:43:46 AM	Ankita	11/6/2024 9:49:51	Peak Integrated by Software

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Instrument ID: FID_E

Daily Analysis Runlog For Sequence/QCBatch ID # FE100824AL

Review By	yogesh	Review On	10/7/2024 4:16:27 PM		
Supervise By	Ankita	Supervise On	10/8/2024 9:52:58 AM		
SubDirectory	FE100824AL	HP Acquire Method		HP Processing Method	FE100824AL

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23644,PP23646,PP23647,PP23648,PP23649
CCC	PP23647
Internal Standard/PEM	
ICV/I.BLK	PP23645,PP23650
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	MECL2	FE050533.D	07 Oct 2024 13:05	YP\AJ	Ok
2	I.BLK	FE050534.D	07 Oct 2024 13:36	YP\AJ	Ok
3	100 PPM ALIPHATIC HC STD1	FE050535.D	07 Oct 2024 14:06	YP\AJ	Ok
4	50 PPM ALIPHATIC HC STD2	FE050536.D	07 Oct 2024 14:36	YP\AJ	Ok
5	20 PPM ALIPHATIC HC STD3	FE050537.D	07 Oct 2024 15:06	YP\AJ	Ok
6	10 PPM ALIPHATIC HC STD4	FE050538.D	07 Oct 2024 15:37	YP\AJ	Ok,M
7	5 PPM ALIPHATIC HC STD5	FE050539.D	07 Oct 2024 16:07	YP\AJ	Ok,M
8	20 PPM ALIPHATIC HC STD ICV	FE050540.D	07 Oct 2024 16:37	YP\AJ	Ok
9	I.BLK	FE050541.D	07 Oct 2024 18:08	YP\AJ	Ok
10	20 PPM ALIPHATIC HC STD	FE050542.D	07 Oct 2024 18:39	YP\AJ	Ok

M : Manual Integration

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Instrument ID: FID_E

Daily Analysis Runlog For Sequence/QCBatch ID # FE110124AL

Review By	yogesh	Review On	11/1/2024 11:29:15 AM		
Supervise By	Ankita	Supervise On	11/4/2024 10:06:31 AM		
SubDirectory	FE110124AL	HP Acquire Method		HP Processing Method	FE100824AL

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23644,PP23646,PP23647,PP23648,PP23649
CCC	PP23647
Internal Standard/PEM	
ICV/I.BLK	PP23645,PP23650
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	MECL2	FE050959.D	01 Nov 2024 09:53	YP\AJ	Ok
2	I.BLK	FE050960.D	01 Nov 2024 10:23	YP\AJ	Ok
3	20 PPM ALIPHATIC HC STD	FE050961.D	01 Nov 2024 10:53	YP\AJ	Ok,M
4	P4599-05DL2	FE050962.D	01 Nov 2024 11:24	YP\AJ	Ok
5	I.BLK	FE050963.D	01 Nov 2024 11:54	YP\AJ	Ok
6	20 PPM ALIPHATIC HC STD	FE050964.D	01 Nov 2024 12:24	YP\AJ	Ok,M
7	PB164589BL	FE050965.D	01 Nov 2024 15:33	YP\AJ	Ok,M
8	PB164589BS	FE050966.D	01 Nov 2024 16:03	YP\AJ	Ok,M
9	PB164589BSD	FE050967.D	01 Nov 2024 16:33	YP\AJ	Ok,M
10	P4640-01	FE050968.D	01 Nov 2024 17:03	YP\AJ	Ok,M
11	P4640-02	FE050969.D	01 Nov 2024 17:33	YP\AJ	Dilution
12	P4643-01	FE050970.D	01 Nov 2024 18:04	YP\AJ	Ok,M
13	P4643-02	FE050971.D	01 Nov 2024 18:34	YP\AJ	Ok,M
14	P4643-05	FE050972.D	01 Nov 2024 19:04	YP\AJ	Ok,M
15	P4643-05D	FE050973.D	01 Nov 2024 19:34	YP\AJ	Ok,M
16	P4643-05MS	FE050974.D	01 Nov 2024 20:04	YP\AJ	Ok,M
17	P4643-05MSD	FE050975.D	01 Nov 2024 20:34	YP\AJ	Ok,M
18	P4643-06	FE050976.D	01 Nov 2024 21:04	YP\AJ	Ok,M
19	P4643-09	FE050977.D	01 Nov 2024 21:35	YP\AJ	Ok,M
20	P4643-10	FE050978.D	01 Nov 2024 22:05	YP\AJ	Ok,M
21	I.BLK	FE050979.D	01 Nov 2024 23:05	YP\AJ	Ok

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Instrument ID: FID_E

Daily Analysis Runlog For Sequence/QCBatch ID # FE110124AL

Review By	yogesh	Review On	11/1/2024 11:29:15 AM		
Supervise By	Ankita	Supervise On	11/4/2024 10:06:31 AM		
SubDirectory	FE110124AL	HP Acquire Method		HP Processing Method	FE100824AL

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23644,PP23646,PP23647,PP23648,PP23649
CCC	PP23647
Internal Standard/PEM	
ICV/I.BLK	PP23645,PP23650
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	20 PPM ALIPHATIC HC STD	FE050980.D	01 Nov 2024 23:36	YP\AJ	Ok,M
23	P4645-01	FE050981.D	02 Nov 2024 00:36	YP\AJ	Dilution
24	P4645-02	FE050982.D	02 Nov 2024 01:07	YP\AJ	Dilution
25	P4659-01	FE050983.D	02 Nov 2024 01:37	YP\AJ	Ok,M
26	P4659-02	FE050984.D	02 Nov 2024 02:07	YP\AJ	Ok,M
27	P4663-02	FE050985.D	02 Nov 2024 02:37	YP\AJ	Ok,M
28	P4663-04	FE050986.D	02 Nov 2024 03:07	YP\AJ	Ok,M
29	P4663-06	FE050987.D	02 Nov 2024 03:37	YP\AJ	Dilution
30	P4663-08	FE050988.D	02 Nov 2024 04:08	YP\AJ	Ok,M
31	I.BLK	FE050989.D	02 Nov 2024 05:08	YP\AJ	Ok
32	20 PPM ALIPHATIC HC STD	FE050990.D	02 Nov 2024 05:38	YP\AJ	Ok,M

M : Manual Integration

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Instrument ID: FID_E

Daily Analysis Runlog For Sequence/QCBatch ID # FE110524AL

Review By	yogesh	Review On	11/6/2024 9:33:09 AM		
Supervise By	Ankita	Supervise On	11/6/2024 9:50:04 AM		
SubDirectory	FE110524AL	HP Acquire Method		HP Processing Method	FE100824AL

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23644,PP23646,PP23647,PP23648,PP23649
CCC	PP23647
Internal Standard/PEM	
ICV/I.BLK	PP23645,PP23650
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	MECL2	FE051021.D	05 Nov 2024 08:37	YP\AJ	Ok
2	I.BLK	FE051022.D	05 Nov 2024 09:07	YP\AJ	Ok
3	20 PPM ALIPHATIC HC STD	FE051023.D	05 Nov 2024 10:07	YP\AJ	Ok,M
4	P4663-06DL	FE051024.D	05 Nov 2024 10:42	YP\AJ	Ok,M
5	P4679-01DL	FE051025.D	05 Nov 2024 11:12	YP\AJ	Ok,M
6	I.BLK	FE051026.D	05 Nov 2024 11:46	YP\AJ	Ok
7	20 PPM ALIPHATIC HC STD	FE051027.D	05 Nov 2024 12:16	YP\AJ	Ok,M
8	PB164681BL	FE051028.D	05 Nov 2024 16:27	YP\AJ	Ok,M
9	PB164681BS	FE051029.D	05 Nov 2024 16:57	YP\AJ	Ok,M
10	PB164681BSD	FE051030.D	05 Nov 2024 17:27	YP\AJ	Ok,M
11	P4682-01	FE051031.D	05 Nov 2024 17:57	YP\AJ	Dilution
12	P4693-01	FE051032.D	05 Nov 2024 18:27	YP\AJ	Dilution
13	P4693-01D	FE051033.D	05 Nov 2024 18:57	YP\AJ	Ok,M
14	P4693-01MS	FE051034.D	05 Nov 2024 19:27	YP\AJ	Ok,M
15	P4693-01MSD	FE051035.D	05 Nov 2024 19:58	YP\AJ	Ok,M
16	P4693-02	FE051036.D	05 Nov 2024 20:28	YP\AJ	Dilution
17	P4693-05	FE051037.D	05 Nov 2024 20:58	YP\AJ	Ok,M
18	P4693-06	FE051038.D	05 Nov 2024 21:28	YP\AJ	Ok,M
19	P4694-05	FE051039.D	05 Nov 2024 21:58	YP\AJ	Ok,M
20	P4694-06	FE051040.D	05 Nov 2024 22:28	YP\AJ	Ok,M
21	P4695-01	FE051041.D	05 Nov 2024 22:57	YP\AJ	Dilution

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Instrument ID: FID_E

Daily Analysis Runlog For Sequence/QCBatch ID # FE110524AL

Review By	yogesh	Review On	11/6/2024 9:33:09 AM		
Supervise By	Ankita	Supervise On	11/6/2024 9:50:04 AM		
SubDirectory	FE110524AL	HP Acquire Method		HP Processing Method	FE100824AL

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23644,PP23646,PP23647,PP23648,PP23649
CCC	PP23647
Internal Standard/PEM	
ICV/I.BLK	PP23645,PP23650
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	P4695-02	FE051042.D	05 Nov 2024 23:27	YP\AJ	Dilution
23	P4697-01	FE051043.D	05 Nov 2024 23:58	YP\AJ	Dilution
24	P4697-02	FE051044.D	06 Nov 2024 00:28	YP\AJ	Ok,M
25	P4701-01	FE051045.D	06 Nov 2024 00:58	YP\AJ	Ok,M
26	P4701-02	FE051046.D	06 Nov 2024 01:28	YP\AJ	Ok,M
27	P4701-05	FE051047.D	06 Nov 2024 01:58	YP\AJ	Ok,M
28	I.BLK	FE051048.D	06 Nov 2024 02:28	YP\AJ	Ok
29	20 PPM ALIPHATIC HC STD	FE051049.D	06 Nov 2024 02:58	YP\AJ	Ok,M
30	P4701-06	FE051050.D	06 Nov 2024 03:29	YP\AJ	Ok,M
31	P4685-01	FE051051.D	06 Nov 2024 03:58	YP\AJ	Dilution
32	P4685-02	FE051052.D	06 Nov 2024 04:28	YP\AJ	Dilution
33	P4694-01	FE051053.D	06 Nov 2024 04:58	YP\AJ	Dilution
34	P4694-02	FE051054.D	06 Nov 2024 05:28	YP\AJ	Dilution
35	I.BLK	FE051055.D	06 Nov 2024 05:59	YP\AJ	Ok
36	20 PPM ALIPHATIC HC STD	FE051056.D	06 Nov 2024 06:29	YP\AJ	Ok,M

M : Manual Integration

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Instrument ID: FID_E

Daily Analysis Runlog For Sequence/QCBatch ID # FE100824AL

Review By	yogesh	Review On	10/7/2024 4:16:27 PM		
Supervise By	Ankita	Supervise On	10/8/2024 9:52:58 AM		
SubDirectory	FE100824AL	HP Acquire Method		HP Processing Method	FE100824AL

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23644,PP23646,PP23647,PP23648,PP23649
CCC	PP23647
Internal Standard/PEM	
ICV/I.BLK	PP23645,PP23650
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	MECL2	MECL2	FE050533.D	07 Oct 2024 13:05		YP\AJ	Ok
2	I.BLK	I.BLK	FE050534.D	07 Oct 2024 13:36		YP\AJ	Ok
3	100 PPM ALIPHATIC H	100 PPM ALIPHATIC H	FE050535.D	07 Oct 2024 14:06		YP\AJ	Ok
4	50 PPM ALIPHATIC HC	50 PPM ALIPHATIC HC	FE050536.D	07 Oct 2024 14:36		YP\AJ	Ok
5	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FE050537.D	07 Oct 2024 15:06		YP\AJ	Ok
6	10 PPM ALIPHATIC HC	10 PPM ALIPHATIC HC	FE050538.D	07 Oct 2024 15:37		YP\AJ	Ok,M
7	5 PPM ALIPHATIC HC	5 PPM ALIPHATIC HC	FE050539.D	07 Oct 2024 16:07		YP\AJ	Ok,M
8	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FE050540.D	07 Oct 2024 16:37		YP\AJ	Ok
9	I.BLK	I.BLK	FE050541.D	07 Oct 2024 18:08		YP\AJ	Ok
10	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FE050542.D	07 Oct 2024 18:39		YP\AJ	Ok

M : Manual Integration

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Fax : 908 789 8922

Instrument ID: FID_E

Daily Analysis Runlog For Sequence/QCBatch ID # FE110124AL

Review By	yogesh	Review On	11/1/2024 11:29:15 AM		
Supervise By	Ankita	Supervise On	11/4/2024 10:06:31 AM		
SubDirectory	FE110124AL	HP Acquire Method		HP Processing Method	FE100824AL

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23644,PP23646,PP23647,PP23648,PP23649
CCC	PP23647
Internal Standard/PEM	
ICV/I.BLK	PP23645,PP23650
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	MECL2	MECL2	FE050959.D	01 Nov 2024 09:53		YP\AJ	Ok
2	I.BLK	I.BLK	FE050960.D	01 Nov 2024 10:23		YP\AJ	Ok
3	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FE050961.D	01 Nov 2024 10:53		YP\AJ	Ok,M
4	P4599-05DL2	EX-1-TPH-5DL2	FE050962.D	01 Nov 2024 11:24		YP\AJ	Ok
5	I.BLK	I.BLK	FE050963.D	01 Nov 2024 11:54		YP\AJ	Ok
6	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FE050964.D	01 Nov 2024 12:24		YP\AJ	Ok,M
7	PB164589BL	PB164589BL	FE050965.D	01 Nov 2024 15:33		YP\AJ	Ok,M
8	PB164589BS	PB164589BS	FE050966.D	01 Nov 2024 16:03		YP\AJ	Ok,M
9	PB164589BSD	PB164589BSD	FE050967.D	01 Nov 2024 16:33		YP\AJ	Ok,M
10	P4640-01	MH-3	FE050968.D	01 Nov 2024 17:03		YP\AJ	Ok,M
11	P4640-02	MH-3-EPH	FE050969.D	01 Nov 2024 17:33	need 2x dilution	YP\AJ	Dilution
12	P4643-01	BP-F9-ADDITIONAL	FE050970.D	01 Nov 2024 18:04		YP\AJ	Ok,M
13	P4643-02	BP-F9-ADDITIONAL-EI	FE050971.D	01 Nov 2024 18:34		YP\AJ	Ok,M
14	P4643-05	BP-F8	FE050972.D	01 Nov 2024 19:04		YP\AJ	Ok,M
15	P4643-05D	P4643-05D	FE050973.D	01 Nov 2024 19:34		YP\AJ	Ok,M
16	P4643-05MS	BP-F8MS	FE050974.D	01 Nov 2024 20:04	FE050972.D	YP\AJ	Ok,M
17	P4643-05MSD	BP-F8MSD	FE050975.D	01 Nov 2024 20:34	FE050972.D!FE050974.D	YP\AJ	Ok,M
18	P4643-06	BP-F8-EPH	FE050976.D	01 Nov 2024 21:04		YP\AJ	Ok,M

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Instrument ID: FID_E

Daily Analysis Runlog For Sequence/QCBatch ID # FE110124AL

Review By	yogesh	Review On	11/1/2024 11:29:15 AM		
Supervise By	Ankita	Supervise On	11/4/2024 10:06:31 AM		
SubDirectory	FE110124AL	HP Acquire Method		HP Processing Method	FE100824AL

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23644,PP23646,PP23647,PP23648,PP23649
CCC	PP23647
Internal Standard/PEM	
ICV/I.BLK	PP23645,PP23650
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	P4643-09	TP-9	FE050977.D	01 Nov 2024 21:35		YP\AJ	Ok,M
20	P4643-10	TP-9-EPH	FE050978.D	01 Nov 2024 22:05		YP\AJ	Ok,M
21	I.BLK	I.BLK	FE050979.D	01 Nov 2024 23:05		YP\AJ	Ok
22	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FE050980.D	01 Nov 2024 23:36		YP\AJ	Ok,M
23	P4645-01	Z-02-WC	FE050981.D	02 Nov 2024 00:36	need 2x dilution	YP\AJ	Dilution
24	P4645-02	Z-02-EPH	FE050982.D	02 Nov 2024 01:07	need 2x dilution	YP\AJ	Dilution
25	P4659-01	MH-2	FE050983.D	02 Nov 2024 01:37		YP\AJ	Ok,M
26	P4659-02	MH-2-EPH	FE050984.D	02 Nov 2024 02:07		YP\AJ	Ok,M
27	P4663-02	TENNANT-PAD-2-3-ST	FE050985.D	02 Nov 2024 02:37		YP\AJ	Ok,M
28	P4663-04	RES-BUILDING-PAD-N	FE050986.D	02 Nov 2024 03:07		YP\AJ	Ok,M
29	P4663-06	RES-BUILDING-PAD-N	FE050987.D	02 Nov 2024 03:37	need 2x dilution	YP\AJ	Dilution
30	P4663-08	RES-BUILDING-PAD-N	FE050988.D	02 Nov 2024 04:08		YP\AJ	Ok,M
31	I.BLK	I.BLK	FE050989.D	02 Nov 2024 05:08		YP\AJ	Ok
32	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FE050990.D	02 Nov 2024 05:38		YP\AJ	Ok,M

M : Manual Integration

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Instrument ID: FID_E

Daily Analysis Runlog For Sequence/QCBatch ID # FE110524AL

Review By	yogesh	Review On	11/6/2024 9:33:09 AM		
Supervise By	Ankita	Supervise On	11/6/2024 9:50:04 AM		
SubDirectory	FE110524AL	HP Acquire Method		HP Processing Method	FE100824AL

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23644,PP23646,PP23647,PP23648,PP23649
CCC	PP23647
Internal Standard/PEM	
ICV/I.BLK	PP23645,PP23650
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	MECL2	MECL2	FE051021.D	05 Nov 2024 08:37		YP\AJ	Ok
2	I.BLK	I.BLK	FE051022.D	05 Nov 2024 09:07		YP\AJ	Ok
3	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FE051023.D	05 Nov 2024 10:07		YP\AJ	Ok,M
4	P4663-06DL	RES-BUILDING-PAD-N	FE051024.D	05 Nov 2024 10:42		YP\AJ	Ok,M
5	P4679-01DL	MH-1DL	FE051025.D	05 Nov 2024 11:12		YP\AJ	Ok,M
6	I.BLK	I.BLK	FE051026.D	05 Nov 2024 11:46		YP\AJ	Ok
7	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FE051027.D	05 Nov 2024 12:16		YP\AJ	Ok,M
8	PB164681BL	PB164681BL	FE051028.D	05 Nov 2024 16:27		YP\AJ	Ok,M
9	PB164681BS	PB164681BS	FE051029.D	05 Nov 2024 16:57		YP\AJ	Ok,M
10	PB164681BSD	PB164681BSD	FE051030.D	05 Nov 2024 17:27		YP\AJ	Ok,M
11	P4682-01	BELL-SHOP-RAGS	FE051031.D	05 Nov 2024 17:57	Need 100X dilution	YP\AJ	Dilution
12	P4693-01	BP-G5-WC	FE051032.D	05 Nov 2024 18:27	Need 2X diltuion	YP\AJ	Dilution
13	P4693-01D	P4693-01D	FE051033.D	05 Nov 2024 18:57		YP\AJ	Ok,M
14	P4693-01MS	BP-G5-WCMS	FE051034.D	05 Nov 2024 19:27	FE051032.D	YP\AJ	Ok,M
15	P4693-01MSD	BP-G5-WCMSD	FE051035.D	05 Nov 2024 19:58	FE051032.D!FE051034.D	YP\AJ	Ok,M
16	P4693-02	BP-G5-WC-EPH	FE051036.D	05 Nov 2024 20:28	Need 5X diltuion	YP\AJ	Dilution
17	P4693-05	BP-G4-WC	FE051037.D	05 Nov 2024 20:58		YP\AJ	Ok,M
18	P4693-06	BP-G4-WC-EPH	FE051038.D	05 Nov 2024 21:28		YP\AJ	Ok,M

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Instrument ID: FID_E

Daily Analysis Runlog For Sequence/QCBatch ID # FE110524AL

Review By	yogesh	Review On	11/6/2024 9:33:09 AM		
Supervise By	Ankita	Supervise On	11/6/2024 9:50:04 AM		
SubDirectory	FE110524AL	HP Acquire Method		HP Processing Method	FE100824AL

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23644,PP23646,PP23647,PP23648,PP23649
CCC	PP23647
Internal Standard/PEM	
ICV/I.BLK	PP23645,PP23650
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	P4694-05	Z-04	FE051039.D	05 Nov 2024 21:58		YP\AJ	Ok,M
20	P4694-06	Z-04-EPH	FE051040.D	05 Nov 2024 22:28		YP\AJ	Ok,M
21	P4695-01	Z-01	FE051041.D	05 Nov 2024 22:57	Need 5X diltuion	YP\AJ	Dilution
22	P4695-02	Z-01-EPH	FE051042.D	05 Nov 2024 23:27	Need 5X and 20X dilution	YP\AJ	Dilution
23	P4697-01	TP-1	FE051043.D	05 Nov 2024 23:58	Need 2X diltuion	YP\AJ	Dilution
24	P4697-02	TP-1	FE051044.D	06 Nov 2024 00:28		YP\AJ	Ok,M
25	P4701-01	BP-F3	FE051045.D	06 Nov 2024 00:58		YP\AJ	Ok,M
26	P4701-02	BP-F3-EPH	FE051046.D	06 Nov 2024 01:28		YP\AJ	Ok,M
27	P4701-05	BP-F4	FE051047.D	06 Nov 2024 01:58		YP\AJ	Ok,M
28	I.BLK	I.BLK	FE051048.D	06 Nov 2024 02:28		YP\AJ	Ok
29	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FE051049.D	06 Nov 2024 02:58		YP\AJ	Ok,M
30	P4701-06	BP-F4-EPH	FE051050.D	06 Nov 2024 03:29		YP\AJ	Ok,M
31	P4685-01	OK-01-11012024	FE051051.D	06 Nov 2024 03:58	Need 10X dilution	YP\AJ	Dilution
32	P4685-02	OK-02-11012024-E2	FE051052.D	06 Nov 2024 04:28	Need 10X dilution	YP\AJ	Dilution
33	P4694-01	Z-03A	FE051053.D	06 Nov 2024 04:58	Need 5X diltuion	YP\AJ	Dilution
34	P4694-02	Z-03A-EPH	FE051054.D	06 Nov 2024 05:28	Need 5X diltuion	YP\AJ	Dilution
35	I.BLK	I.BLK	FE051055.D	06 Nov 2024 05:59		YP\AJ	Ok
36	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FE051056.D	06 Nov 2024 06:29		YP\AJ	Ok,M

M : Manual Integration

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EXTRACTION LOGPAGE

PB164589

SOP ID:	MNJDEP-EPH-7				
Clean Up SOP #:	N/A			**Extraction Start Date :**	11/01/2024
Matrix :	Solid			**Extraction Start Time :**	08:50
Weigh By:	EH	**Extraction By:**	RS	**Extraction End Date :**	11/01/2024
Balance check:	RJ	**Filter By:**	RJ	**Extraction End Time :**	15:25
Balance ID:	EX-SC-2	**pH Meter ID:**	N/A	**Concentration By:**	EH
pH Strip Lot#:	N/A	**Hood ID:**	3,7	**Supervisor By :**	rajesh

Extraction Method: ☐ Seperatory Funnel ☐ Continious Liquid/Liquid ☐ Sonication ☐ Waste Dilution ☑ Soxhlet

Standared Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Surrogate	1.0ML	100 PPM	PP23934
Fractionation Surrogate	1.0ML	100 PPM	PP23892
Spike Sol 1	1.0ML	100 PPM	PP23916
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	EP2538
Baked Na2SO4	N/A	EP2554
Sand	N/A	E2865
Hexane	N/A	E3819
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
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 # 2210673. P4663 All samples Added in batch at 11:33.

KD Bath ID:	N/A	**Envap ID:**	NE VAP-02
KD Bath Temperature:	N/A	**Envap Temperature:**	40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
11/01/24	RP (Ext lab)	Y-P-Prep lab
15:30	**Preparation Group**	**Analysis Group**

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PrepBatch ID : PB164589

Analytical Method: MNJDEP-EPH-7

Concentration Date: 11/01/2024

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB164589BL	PB164589BL	EPH_NF	30.01	N/A	ritesh	RUPESH	2			U1-1
PB164589BS	PB164589BS	EPH_NF	30.03	N/A	ritesh	RUPESH	2			2
PB164589BSD	PB164589BSD	EPH_NF	30.01	N/A	ritesh	RUPESH	2			3
P4640-01	MH-3	EPH_NF	30.07	N/A	ritesh	RUPESH	2	D		4
P4640-02	MH-3-EPH	EPH_NF	30.03	N/A	ritesh	RUPESH	2			5
P4643-01	BP-F9-ADDITIONAL	EPH_NF	30.05	N/A	ritesh	RUPESH	2	D		6
P4643-02	BP-F9-ADDITIONAL-EPH	EPH_NF	30.09	N/A	ritesh	RUPESH	2			U5-1
P4643-05	BP-F8	EPH_NF	30.01	N/A	ritesh	RUPESH	2	D		2
P4643-05DUP	BP-F8DUP	EPH_NF	30.03	N/A	ritesh	RUPESH	2	D		3
P4643-05MS	BP-F8MS	EPH_NF	30.08	N/A	ritesh	RUPESH	2	D		4
P4643-05MSD	BP-F8MSD	EPH_NF	30.06	N/A	ritesh	RUPESH	2	D		5
P4643-06	BP-F8-EPH	EPH_NF	30.02	N/A	ritesh	RUPESH	2			6
P4643-09	TP-9	EPH_NF	30.07	N/A	ritesh	RUPESH	2	D		U6-1
P4643-10	TP-9-EPH	EPH_NF	30.04	N/A	ritesh	RUPESH	2			2
P4645-01	Z-02-WC	EPH_NF	30.10	N/A	ritesh	RUPESH	2	D		3
P4645-02	Z-02-EPH	EPH_NF	30.04	N/A	ritesh	RUPESH	2			4
P4659-01	MH-2	EPH_NF	30.03	N/A	ritesh	RUPESH	2	D		5
P4659-02	MH-2-EPH	EPH_NF	30.06	N/A	ritesh	RUPESH	2			6
P4663-02	TENNANT-PAD-2-3-STOCKPILE	EPH_NF	30.01	N/A	ritesh	RUPESH	2	D		U7-1
P4663-04	RES-BUILDING-PAD-NO-11	EPH_NF	30.08	N/A	ritesh	RUPESH	2	D		2
P4663-06	RES-BUILDING-PAD-NO-3	EPH_NF	30.04	N/A	ritesh	RUPESH	2	D		3
P4663-08	RES-BUILDING-PAD-NO-2	EPH_NF	30.09	N/A	ritesh	RUPESH	2	D		4

*** Extracts relinquished on the same date as received.**

11/01/24

P4663 84589 8:50

WORKLIST(Hardcopy Internal Chain)

WorkList Name : P4659N **WorkList ID :** 185011 **Department :** Extraction **Date :** 11-01-2024 08:45:07

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4640-01	MH-3	Solid	EPH_NF	Cool 4 deg C	PSEG03	K61	10/30/2024	NJEPH
P4640-02	MH-3-EPH	Solid	EPH_NF	Cool 4 deg C	PSEG03	K61	10/30/2024	NJEPH
P4643-01	BP-F9-ADDITIONAL	Solid	EPH_NF	Cool 4 deg C	PSEG03	K51	10/30/2024	NJEPH
P4643-02	BP-F9-ADDITIONAL-EPH	Solid	EPH_NF	Cool 4 deg C	PSEG03	K51	10/30/2024	NJEPH
P4643-05	BP-F8	Solid	EPH_NF	Cool 4 deg C	PSEG03	K51	10/30/2024	NJEPH
P4643-06	BP-F8-EPH	Solid	EPH_NF	Cool 4 deg C	PSEG03	K51	10/30/2024	NJEPH
P4643-09	TP-9	Solid	EPH_NF	Cool 4 deg C	PSEG03	K51	10/30/2024	NJEPH
P4643-10	TP-9-EPH	Solid	EPH_NF	Cool 4 deg C	PSEG03	K51	10/30/2024	NJEPH
P4645-01	Z-02-WC	Solid	EPH_NF	Cool 4 deg C	PSEG03	K63	10/31/2024	NJEPH
P4645-02	Z-02-EPH	Solid	EPH_NF	Cool 4 deg C	PSEG03	K63	10/31/2024	NJEPH
P4659-01	MH-2	Solid	EPH_NF	Cool 4 deg C	PSEG03	K61	10/31/2024	NJEPH
P4659-02	MH-2-EPH	Solid	EPH_NF	Cool 4 deg C	PSEG03	K61	10/31/2024	NJEPH

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Date/Time 11/01/24 8:47
Raw Sample Received by: RJ (Ext lab)
Raw Sample Relinquished by: JDCSM)

Date/Time 11/01/24 9:20
Raw Sample Received by: JDCSM)
Raw Sample Relinquished by: RJ (Ext lab)

P4663 04589 NA

WORKLIST(Hardcopy Internal Chain)

WorkList Name : P4663T **WorkList ID :** 185023 **Department :** Extraction **Date :** 11-01-2024 11:33:22

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4663-02	TENNANT-PAD-2-3-STOCKPIL	Solid	EPH_NF	Cool 4 deg C	UNIO02	K41	10/31/2024	NJEPH
P4663-02	TENNANT-PAD-2-3-STOCKPIL	Solid	TPH GC	Cool 4 deg C	UNIO02	K41	10/31/2024	8015D
P4663-04	RES-BUILDING-PAD-NO-11	Solid	EPH_NF	Cool 4 deg C	UNIO02	K41	10/31/2024	NJEPH
P4663-04	RES-BUILDING-PAD-NO-11	Solid	TPH GC	Cool 4 deg C	UNIO02	K41	10/31/2024	8015D
P4663-06	RES-BUILDING-PAD-NO-3	Solid	EPH_NF	Cool 4 deg C	UNIO02	K41	10/31/2024	NJEPH
P4663-06	RES-BUILDING-PAD-NO-3	Solid	TPH GC	Cool 4 deg C	UNIO02	K41	10/31/2024	8015D
P4663-08	RES-BUILDING-PAD-NO-2	Solid	EPH_NF	Cool 4 deg C	UNIO02	K41	10/31/2024	NJEPH
P4663-08	RES-BUILDING-PAD-NO-2	Solid	TPH GC	Cool 4 deg C	UNIO02	K41	10/31/2024	8015D

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Date/Time 11/01/24 11:33
Raw Sample Received by: RJ (Ext 1037)
Raw Sample Relinquished by: RM

Date/Time 11/01/24 11:55
Raw Sample Received by: RM
Raw Sample Relinquished by: RJ (Ext 1037)

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LAB CHRONICLE

OrderID:	P4663	**OrderDate:**	10/31/2024 3:05:00 PM
Client:	Union Paving & Construction Company	**Project:**	Rt. 10 Whippany
Contact:	Gregory Butler	**Location:**	K41,VOA Ref. #2 Soil

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P4663-02	**TENNANT-PAD-2-3-STOCKPILE**	**SOIL**			**10/31/24**			**10/31/24**
			Herbicide	8151A		11/04/24	11/05/24	
			PCB	8082A		11/01/24	11/01/24	
			Pesticide-TCL	8081B		11/01/24	11/01/24	
			TPH GC	8015D		11/01/24	11/01/24	
			EPH_NF	NJEPH		11/01/24	11/02/24	
P4663-04	**RES-BUILDING-PAD-NO-11**	**SOIL**			**10/31/24**			**10/31/24**
			Herbicide	8151A		11/04/24	11/05/24	
			PCB	8082A		11/01/24	11/01/24	
			Pesticide-TCL	8081B		11/01/24	11/01/24	
			TPH GC	8015D		11/01/24	11/01/24	
			EPH_NF	NJEPH		11/01/24	11/02/24	
P4663-06	**RES-BUILDING-PAD-NO-3**	**SOIL**			**10/31/24**			**10/31/24**
			Herbicide	8151A		11/04/24	11/05/24	
			PCB	8082A		11/01/24	11/01/24	
			Pesticide-TCL	8081B		11/01/24	11/01/24	
			TPH GC	8015D		11/01/24	11/01/24	
			EPH_NF	NJEPH		11/01/24	11/02/24	
P4663-06DL	**RES-BUILDING-PAD-NO-3DL**	**Solid**			**10/31/24**			**10/31/24**
			EPH_NF	NJEPH		11/01/24	11/05/24	
P4663-08	**RES-BUILDING-PAD-NO-2**	**SOIL**			**10/31/24**			**10/31/24**
			Herbicide	8151A		11/04/24	11/05/24	

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LAB CHRONICLE

PCB	8082A	11/01/24	11/01/24
Pesticide-TCL	8081B	11/01/24	11/01/24
TPH GC	8015D	11/01/24	11/01/24
EPH_NF	NJEPH	11/01/24	11/02/24

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Fax : 908 789 8922

Hit Summary Sheet
SW-846

SDG No.: P4663 **Order ID:** P4663

Client: Union Paving & Construction Company **Project ID:** Rt. 10 Whippany

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID : TENNANT-PAD-2-3-STOCKPILE								
P4663-02	TENNANT-PAD-2-3-STOCKPII	SOIL	Aluminum	10400		2.49	5.16	mg/Kg
P4663-02	TENNANT-PAD-2-3-STOCKPII	SOIL	Antimony	0.18	J	0.16	2.58	mg/Kg
P4663-02	TENNANT-PAD-2-3-STOCKPII	SOIL	Arsenic	1.98		0.30	1.03	mg/Kg
P4663-02	TENNANT-PAD-2-3-STOCKPII	SOIL	Barium	52.9		0.66	5.16	mg/Kg
P4663-02	TENNANT-PAD-2-3-STOCKPII	SOIL	Beryllium	0.99		0.012	0.31	mg/Kg
P4663-02	TENNANT-PAD-2-3-STOCKPII	SOIL	Cadmium	0.59		0.017	0.31	mg/Kg
P4663-02	TENNANT-PAD-2-3-STOCKPII	SOIL	Calcium	2390		2.89	103	mg/Kg
P4663-02	TENNANT-PAD-2-3-STOCKPII	SOIL	Chromium	16.2		0.056	0.52	mg/Kg
P4663-02	TENNANT-PAD-2-3-STOCKPII	SOIL	Cobalt	16.2		0.060	1.55	mg/Kg
P4663-02	TENNANT-PAD-2-3-STOCKPII	SOIL	Copper	21.7		0.49	1.03	mg/Kg
P4663-02	TENNANT-PAD-2-3-STOCKPII	SOIL	Iron	21200		2.78	5.16	mg/Kg
P4663-02	TENNANT-PAD-2-3-STOCKPII	SOIL	Lead	12.5		0.16	0.62	mg/Kg
P4663-02	TENNANT-PAD-2-3-STOCKPII	SOIL	Magnesium	2290		3.54	103	mg/Kg
P4663-02	TENNANT-PAD-2-3-STOCKPII	SOIL	Manganese	366		0.073	1.03	mg/Kg
P4663-02	TENNANT-PAD-2-3-STOCKPII	SOIL	Mercury	0.011	J	0.0060	0.014	mg/Kg
P4663-02	TENNANT-PAD-2-3-STOCKPII	SOIL	Nickel	15.6		0.093	2.07	mg/Kg
P4663-02	TENNANT-PAD-2-3-STOCKPII	SOIL	Potassium	635		29.6	103	mg/Kg
P4663-02	TENNANT-PAD-2-3-STOCKPII	SOIL	Silver	0.28	J	0.054	0.52	mg/Kg
P4663-02	TENNANT-PAD-2-3-STOCKPII	SOIL	Sodium	361		37.3	103	mg/Kg
P4663-02	TENNANT-PAD-2-3-STOCKPII	SOIL	Vanadium	40.0		0.28	2.07	mg/Kg
P4663-02	TENNANT-PAD-2-3-STOCKPII	SOIL	Zinc	46.6		0.11	2.07	mg/Kg
Client ID : RES-BUILDING-PAD-NO-11								
P4663-04	RES-BUILDING-PAD-NO-11	SOIL	Aluminum	9640		2.40	4.98	mg/Kg
P4663-04	RES-BUILDING-PAD-NO-11	SOIL	Antimony	0.34	J	0.15	2.49	mg/Kg
P4663-04	RES-BUILDING-PAD-NO-11	SOIL	Arsenic	1.32		0.29	1.00	mg/Kg
P4663-04	RES-BUILDING-PAD-NO-11	SOIL	Barium	51.4		0.64	4.98	mg/Kg
P4663-04	RES-BUILDING-PAD-NO-11	SOIL	Beryllium	0.86		0.012	0.30	mg/Kg
P4663-04	RES-BUILDING-PAD-NO-11	SOIL	Cadmium	0.43		0.016	0.30	mg/Kg
P4663-04	RES-BUILDING-PAD-NO-11	SOIL	Calcium	2070		2.79	99.6	mg/Kg
P4663-04	RES-BUILDING-PAD-NO-11	SOIL	Chromium	17.5		0.054	0.50	mg/Kg
P4663-04	RES-BUILDING-PAD-NO-11	SOIL	Cobalt	12.4		0.058	1.49	mg/Kg
P4663-04	RES-BUILDING-PAD-NO-11	SOIL	Copper	20.3		0.47	1.00	mg/Kg
P4663-04	RES-BUILDING-PAD-NO-11	SOIL	Iron	20200		2.68	4.98	mg/Kg
P4663-04	RES-BUILDING-PAD-NO-11	SOIL	Lead	15.4		0.15	0.60	mg/Kg
P4663-04	RES-BUILDING-PAD-NO-11	SOIL	Magnesium	2450		3.42	99.6	mg/Kg
P4663-04	RES-BUILDING-PAD-NO-11	SOIL	Manganese	355		0.071	1.00	mg/Kg
P4663-04	RES-BUILDING-PAD-NO-11	SOIL	Mercury	0.020		0.0070	0.015	mg/Kg

Alliance TECHNICAL GROUP
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Hit Summary Sheet
SW-846

SDG No.: P4663 **Order ID:** P4663

Client: Union Paving & Construction Company **Project ID:** Rt. 10 Whippany

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
P4663-04	RES-BUILDING-PAD-NO-11	SOIL	Nickel	16.1		0.090	1.99	mg/Kg
P4663-04	RES-BUILDING-PAD-NO-11	SOIL	Potassium	563		28.6	99.6	mg/Kg
P4663-04	RES-BUILDING-PAD-NO-11	SOIL	Silver	0.38	J	0.052	0.50	mg/Kg
P4663-04	RES-BUILDING-PAD-NO-11	SOIL	Sodium	327		36.0	99.6	mg/Kg
P4663-04	RES-BUILDING-PAD-NO-11	SOIL	Vanadium	39.7		0.27	1.99	mg/Kg
P4663-04	RES-BUILDING-PAD-NO-11	SOIL	Zinc	50.5		0.11	1.99	mg/Kg
Client ID :	**RES-BUILDING-PAD-NO-3**							
P4663-06	RES-BUILDING-PAD-NO-3	SOIL	Aluminum	7550		2.12	4.40	mg/Kg
P4663-06	RES-BUILDING-PAD-NO-3	SOIL	Antimony	0.23	J	0.13	2.20	mg/Kg
P4663-06	RES-BUILDING-PAD-NO-3	SOIL	Arsenic	1.22		0.26	0.88	mg/Kg
P4663-06	RES-BUILDING-PAD-NO-3	SOIL	Barium	46.5		0.56	4.40	mg/Kg
P4663-06	RES-BUILDING-PAD-NO-3	SOIL	Beryllium	0.71		0.011	0.26	mg/Kg
P4663-06	RES-BUILDING-PAD-NO-3	SOIL	Cadmium	0.53		0.014	0.26	mg/Kg
P4663-06	RES-BUILDING-PAD-NO-3	SOIL	Calcium	4260		2.47	88.1	mg/Kg
P4663-06	RES-BUILDING-PAD-NO-3	SOIL	Chromium	12.9		0.048	0.44	mg/Kg
P4663-06	RES-BUILDING-PAD-NO-3	SOIL	Cobalt	12.9		0.051	1.32	mg/Kg
P4663-06	RES-BUILDING-PAD-NO-3	SOIL	Copper	24.6		0.41	0.88	mg/Kg
P4663-06	RES-BUILDING-PAD-NO-3	SOIL	Iron	17600		2.37	4.40	mg/Kg
P4663-06	RES-BUILDING-PAD-NO-3	SOIL	Lead	8.31		0.13	0.53	mg/Kg
P4663-06	RES-BUILDING-PAD-NO-3	SOIL	Magnesium	3180		3.02	88.1	mg/Kg
P4663-06	RES-BUILDING-PAD-NO-3	SOIL	Manganese	363		0.063	0.88	mg/Kg
P4663-06	RES-BUILDING-PAD-NO-3	SOIL	Mercury	0.016		0.0060	0.013	mg/Kg
P4663-06	RES-BUILDING-PAD-NO-3	SOIL	Nickel	15.8		0.079	1.76	mg/Kg
P4663-06	RES-BUILDING-PAD-NO-3	SOIL	Potassium	673		25.3	88.1	mg/Kg
P4663-06	RES-BUILDING-PAD-NO-3	SOIL	Silver	0.32	J	0.046	0.44	mg/Kg
P4663-06	RES-BUILDING-PAD-NO-3	SOIL	Sodium	265		31.8	88.1	mg/Kg
P4663-06	RES-BUILDING-PAD-NO-3	SOIL	Vanadium	30.5		0.24	1.76	mg/Kg
P4663-06	RES-BUILDING-PAD-NO-3	SOIL	Zinc	45.7		0.097	1.76	mg/Kg
Client ID :	**RES-BUILDING-PAD-NO-2**							
P4663-08	RES-BUILDING-PAD-NO-2	SOIL	Aluminum	7960		2.18	4.53	mg/Kg
P4663-08	RES-BUILDING-PAD-NO-2	SOIL	Antimony	0.14	J	0.14	2.26	mg/Kg
P4663-08	RES-BUILDING-PAD-NO-2	SOIL	Arsenic	1.15		0.26	0.91	mg/Kg
P4663-08	RES-BUILDING-PAD-NO-2	SOIL	Barium	46.8		0.58	4.53	mg/Kg
P4663-08	RES-BUILDING-PAD-NO-2	SOIL	Beryllium	0.81		0.011	0.27	mg/Kg
P4663-08	RES-BUILDING-PAD-NO-2	SOIL	Cadmium	0.40		0.014	0.27	mg/Kg
P4663-08	RES-BUILDING-PAD-NO-2	SOIL	Calcium	1760		2.53	90.5	mg/Kg
P4663-08	RES-BUILDING-PAD-NO-2	SOIL	Chromium	13.8		0.049	0.45	mg/Kg
P4663-08	RES-BUILDING-PAD-NO-2	SOIL	Cobalt	11.7		0.053	1.36	mg/Kg
P4663-08	RES-BUILDING-PAD-NO-2	SOIL	Copper	20.0		0.43	0.91	mg/Kg

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

SDG No.: P4663 **Order ID:** P4663

Client: Union Paving & Construction Company **Project ID:** Rt. 10 Whippany

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
P4663-08	RES-BUILDING-PAD-NO-2	SOIL	Iron	18000		2.43	4.53	mg/Kg
P4663-08	RES-BUILDING-PAD-NO-2	SOIL	Lead	7.79		0.14	0.54	mg/Kg
P4663-08	RES-BUILDING-PAD-NO-2	SOIL	Magnesium	2290		3.10	90.5	mg/Kg
P4663-08	RES-BUILDING-PAD-NO-2	SOIL	Manganese	361		0.064	0.91	mg/Kg
P4663-08	RES-BUILDING-PAD-NO-2	SOIL	Nickel	14.8		0.081	1.81	mg/Kg
P4663-08	RES-BUILDING-PAD-NO-2	SOIL	Potassium	556		26.0	90.5	mg/Kg
P4663-08	RES-BUILDING-PAD-NO-2	SOIL	Silver	0.34	J	0.047	0.45	mg/Kg
P4663-08	RES-BUILDING-PAD-NO-2	SOIL	Sodium	161		32.7	90.5	mg/Kg
P4663-08	RES-BUILDING-PAD-NO-2	SOIL	Vanadium	32.5		0.24	1.81	mg/Kg
P4663-08	RES-BUILDING-PAD-NO-2	SOIL	Zinc	41.4		0.10	1.81	mg/Kg

SAMPLE DATA

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

Client:	Union Paving & Construction Company	Date Collected:	10/31/24
Project:	Rt. 10 Whippany	Date Received:	10/31/24
Client Sample ID:	TENNANT-PAD-2-3-STOCKPILE	SDG No.:	P4663
Lab Sample ID:	P4663-02	Matrix:	SOIL
Level (low/med):	low	% Solid:	90.9

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	10400		1	2.49	5.16	mg/Kg	11/03/24 15:00	11/04/24 20:12	SW6010	SW3050
7440-36-0	Antimony	0.18	JN	1	0.16	2.58	mg/Kg	11/03/24 15:00	11/04/24 20:12	SW6010	SW3050
7440-38-2	Arsenic	1.98		1	0.30	1.03	mg/Kg	11/03/24 15:00	11/04/24 20:12	SW6010	SW3050
7440-39-3	Barium	52.9		1	0.66	5.16	mg/Kg	11/03/24 15:00	11/04/24 20:12	SW6010	SW3050
7440-41-7	Beryllium	0.99		1	0.012	0.31	mg/Kg	11/03/24 15:00	11/04/24 20:12	SW6010	SW3050
7440-43-9	Cadmium	0.59		1	0.017	0.31	mg/Kg	11/03/24 15:00	11/04/24 20:12	SW6010	SW3050
7440-70-2	Calcium	2390		1	2.89	103	mg/Kg	11/03/24 15:00	11/04/24 20:12	SW6010	SW3050
7440-47-3	Chromium	16.2		1	0.056	0.52	mg/Kg	11/03/24 15:00	11/04/24 20:12	SW6010	SW3050
7440-48-4	Cobalt	16.2		1	0.060	1.55	mg/Kg	11/03/24 15:00	11/04/24 20:12	SW6010	SW3050
7440-50-8	Copper	21.7	N	1	0.49	1.03	mg/Kg	11/03/24 15:00	11/04/24 20:12	SW6010	SW3050
7439-89-6	Iron	21200		1	2.78	5.16	mg/Kg	11/03/24 15:00	11/04/24 20:12	SW6010	SW3050
7439-92-1	Lead	12.5		1	0.16	0.62	mg/Kg	11/03/24 15:00	11/04/24 20:12	SW6010	SW3050
7439-95-4	Magnesium	2290		1	3.54	103	mg/Kg	11/03/24 15:00	11/04/24 20:12	SW6010	SW3050
7439-96-5	Manganese	366		1	0.073	1.03	mg/Kg	11/03/24 15:00	11/04/24 20:12	SW6010	SW3050
7439-97-6	Mercury	0.011	J	1	0.0060	0.014	mg/Kg	11/04/24 09:45	11/04/24 15:34	SW7471B	
7440-02-0	Nickel	15.6		1	0.093	2.07	mg/Kg	11/03/24 15:00	11/04/24 20:12	SW6010	SW3050
7440-09-7	Potassium	635		1	29.6	103	mg/Kg	11/03/24 15:00	11/04/24 20:12	SW6010	SW3050
7782-49-2	Selenium	0.34	U	1	0.34	1.03	mg/Kg	11/03/24 15:00	11/04/24 20:12	SW6010	SW3050
7440-22-4	Silver	0.28	J	1	0.054	0.52	mg/Kg	11/03/24 15:00	11/04/24 20:12	SW6010	SW3050
7440-23-5	Sodium	361	N	1	37.3	103	mg/Kg	11/03/24 15:00	11/04/24 20:12	SW6010	SW3050
7440-28-0	Thallium	0.46	U	1	0.46	2.07	mg/Kg	11/03/24 15:00	11/04/24 20:12	SW6010	SW3050
7440-62-2	Vanadium	40.0		1	0.28	2.07	mg/Kg	11/03/24 15:00	11/04/24 20:12	SW6010	SW3050
7440-66-6	Zinc	46.6	N	1	0.11	2.07	mg/Kg	11/03/24 15:00	11/04/24 20:12	SW6010	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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Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	10/31/24
Project:	Rt. 10 Whippany	Date Received:	10/31/24
Client Sample ID:	RES-BUILDING-PAD-NO-11	SDG No.:	P4663
Lab Sample ID:	P4663-04	Matrix:	SOIL
Level (low/med):	low	% Solid:	91.7

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	9640		1	2.40	4.98	mg/Kg	11/03/24 15:00	11/04/24 20:17	SW6010	SW3050
7440-36-0	Antimony	0.34	JN	1	0.15	2.49	mg/Kg	11/03/24 15:00	11/04/24 20:17	SW6010	SW3050
7440-38-2	Arsenic	1.32		1	0.29	1.00	mg/Kg	11/03/24 15:00	11/04/24 20:17	SW6010	SW3050
7440-39-3	Barium	51.4		1	0.64	4.98	mg/Kg	11/03/24 15:00	11/04/24 20:17	SW6010	SW3050
7440-41-7	Beryllium	0.86		1	0.012	0.30	mg/Kg	11/03/24 15:00	11/04/24 20:17	SW6010	SW3050
7440-43-9	Cadmium	0.43		1	0.016	0.30	mg/Kg	11/03/24 15:00	11/04/24 20:17	SW6010	SW3050
7440-70-2	Calcium	2070		1	2.79	99.6	mg/Kg	11/03/24 15:00	11/04/24 20:17	SW6010	SW3050
7440-47-3	Chromium	17.5		1	0.054	0.50	mg/Kg	11/03/24 15:00	11/04/24 20:17	SW6010	SW3050
7440-48-4	Cobalt	12.4		1	0.058	1.49	mg/Kg	11/03/24 15:00	11/04/24 20:17	SW6010	SW3050
7440-50-8	Copper	20.3	N	1	0.47	1.00	mg/Kg	11/03/24 15:00	11/04/24 20:17	SW6010	SW3050
7439-89-6	Iron	20200		1	2.68	4.98	mg/Kg	11/03/24 15:00	11/04/24 20:17	SW6010	SW3050
7439-92-1	Lead	15.4		1	0.15	0.60	mg/Kg	11/03/24 15:00	11/04/24 20:17	SW6010	SW3050
7439-95-4	Magnesium	2450		1	3.42	99.6	mg/Kg	11/03/24 15:00	11/04/24 20:17	SW6010	SW3050
7439-96-5	Manganese	355		1	0.071	1.00	mg/Kg	11/03/24 15:00	11/04/24 20:17	SW6010	SW3050
7439-97-6	Mercury	0.020		1	0.0070	0.015	mg/Kg	11/04/24 09:45	11/04/24 14:46	SW7471B	
7440-02-0	Nickel	16.1		1	0.090	1.99	mg/Kg	11/03/24 15:00	11/04/24 20:17	SW6010	SW3050
7440-09-7	Potassium	563		1	28.6	99.6	mg/Kg	11/03/24 15:00	11/04/24 20:17	SW6010	SW3050
7782-49-2	Selenium	0.33	U	1	0.33	1.00	mg/Kg	11/03/24 15:00	11/04/24 20:17	SW6010	SW3050
7440-22-4	Silver	0.38	J	1	0.052	0.50	mg/Kg	11/03/24 15:00	11/04/24 20:17	SW6010	SW3050
7440-23-5	Sodium	327	N	1	36.0	99.6	mg/Kg	11/03/24 15:00	11/04/24 20:17	SW6010	SW3050
7440-28-0	Thallium	0.44	U	1	0.44	1.99	mg/Kg	11/03/24 15:00	11/04/24 20:17	SW6010	SW3050
7440-62-2	Vanadium	39.7		1	0.27	1.99	mg/Kg	11/03/24 15:00	11/04/24 20:17	SW6010	SW3050
7440-66-6	Zinc	50.5	N	1	0.11	1.99	mg/Kg	11/03/24 15:00	11/04/24 20:17	SW6010	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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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:	Union Paving & Construction Company	Date Collected:	10/31/24
Project:	Rt. 10 Whippany	Date Received:	10/31/24
Client Sample ID:	RES-BUILDING-PAD-NO-3	SDG No.:	P4663
Lab Sample ID:	P4663-06	Matrix:	SOIL
Level (low/med):	low	% Solid:	91.2

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	7550		1	2.12	4.40	mg/Kg	11/03/24 15:00	11/04/24 20:21	SW6010	SW3050
7440-36-0	Antimony	0.23	JN	1	0.13	2.20	mg/Kg	11/03/24 15:00	11/04/24 20:21	SW6010	SW3050
7440-38-2	Arsenic	1.22		1	0.26	0.88	mg/Kg	11/03/24 15:00	11/04/24 20:21	SW6010	SW3050
7440-39-3	Barium	46.5		1	0.56	4.40	mg/Kg	11/03/24 15:00	11/04/24 20:21	SW6010	SW3050
7440-41-7	Beryllium	0.71		1	0.011	0.26	mg/Kg	11/03/24 15:00	11/04/24 20:21	SW6010	SW3050
7440-43-9	Cadmium	0.53		1	0.014	0.26	mg/Kg	11/03/24 15:00	11/04/24 20:21	SW6010	SW3050
7440-70-2	Calcium	4260		1	2.47	88.1	mg/Kg	11/03/24 15:00	11/04/24 20:21	SW6010	SW3050
7440-47-3	Chromium	12.9		1	0.048	0.44	mg/Kg	11/03/24 15:00	11/04/24 20:21	SW6010	SW3050
7440-48-4	Cobalt	12.9		1	0.051	1.32	mg/Kg	11/03/24 15:00	11/04/24 20:21	SW6010	SW3050
7440-50-8	Copper	24.6	N	1	0.41	0.88	mg/Kg	11/03/24 15:00	11/04/24 20:21	SW6010	SW3050
7439-89-6	Iron	17600		1	2.37	4.40	mg/Kg	11/03/24 15:00	11/04/24 20:21	SW6010	SW3050
7439-92-1	Lead	8.31		1	0.13	0.53	mg/Kg	11/03/24 15:00	11/04/24 20:21	SW6010	SW3050
7439-95-4	Magnesium	3180		1	3.02	88.1	mg/Kg	11/03/24 15:00	11/04/24 20:21	SW6010	SW3050
7439-96-5	Manganese	363		1	0.063	0.88	mg/Kg	11/03/24 15:00	11/04/24 20:21	SW6010	SW3050
7439-97-6	Mercury	0.016		1	0.0060	0.013	mg/Kg	11/04/24 09:45	11/04/24 14:55	SW7471B	
7440-02-0	Nickel	15.8		1	0.079	1.76	mg/Kg	11/03/24 15:00	11/04/24 20:21	SW6010	SW3050
7440-09-7	Potassium	673		1	25.3	88.1	mg/Kg	11/03/24 15:00	11/04/24 20:21	SW6010	SW3050
7782-49-2	Selenium	0.29	U	1	0.29	0.88	mg/Kg	11/03/24 15:00	11/04/24 20:21	SW6010	SW3050
7440-22-4	Silver	0.32	J	1	0.046	0.44	mg/Kg	11/03/24 15:00	11/04/24 20:21	SW6010	SW3050
7440-23-5	Sodium	265	N	1	31.8	88.1	mg/Kg	11/03/24 15:00	11/04/24 20:21	SW6010	SW3050
7440-28-0	Thallium	0.39	U	1	0.39	1.76	mg/Kg	11/03/24 15:00	11/04/24 20:21	SW6010	SW3050
7440-62-2	Vanadium	30.5		1	0.24	1.76	mg/Kg	11/03/24 15:00	11/04/24 20:21	SW6010	SW3050
7440-66-6	Zinc	45.7	N	1	0.097	1.76	mg/Kg	11/03/24 15:00	11/04/24 20:21	SW6010	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:	Union Paving & Construction Company	Date Collected:	10/31/24
Project:	Rt. 10 Whippany	Date Received:	10/31/24
Client Sample ID:	RES-BUILDING-PAD-NO-2	SDG No.:	P4663
Lab Sample ID:	P4663-08	Matrix:	SOIL
Level (low/med):	low	% Solid:	91.3

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	7960		1	2.18	4.53	mg/Kg	11/03/24 15:00	11/04/24 20:25	SW6010	SW3050
7440-36-0	Antimony	0.14	JN	1	0.14	2.26	mg/Kg	11/03/24 15:00	11/04/24 20:25	SW6010	SW3050
7440-38-2	Arsenic	1.15		1	0.26	0.91	mg/Kg	11/03/24 15:00	11/04/24 20:25	SW6010	SW3050
7440-39-3	Barium	46.8		1	0.58	4.53	mg/Kg	11/03/24 15:00	11/04/24 20:25	SW6010	SW3050
7440-41-7	Beryllium	0.81		1	0.011	0.27	mg/Kg	11/03/24 15:00	11/04/24 20:25	SW6010	SW3050
7440-43-9	Cadmium	0.40		1	0.014	0.27	mg/Kg	11/03/24 15:00	11/04/24 20:25	SW6010	SW3050
7440-70-2	Calcium	1760		1	2.53	90.5	mg/Kg	11/03/24 15:00	11/04/24 20:25	SW6010	SW3050
7440-47-3	Chromium	13.8		1	0.049	0.45	mg/Kg	11/03/24 15:00	11/04/24 20:25	SW6010	SW3050
7440-48-4	Cobalt	11.7		1	0.053	1.36	mg/Kg	11/03/24 15:00	11/04/24 20:25	SW6010	SW3050
7440-50-8	Copper	20.0	N	1	0.43	0.91	mg/Kg	11/03/24 15:00	11/04/24 20:25	SW6010	SW3050
7439-89-6	Iron	18000		1	2.43	4.53	mg/Kg	11/03/24 15:00	11/04/24 20:25	SW6010	SW3050
7439-92-1	Lead	7.79		1	0.14	0.54	mg/Kg	11/03/24 15:00	11/04/24 20:25	SW6010	SW3050
7439-95-4	Magnesium	2290		1	3.10	90.5	mg/Kg	11/03/24 15:00	11/04/24 20:25	SW6010	SW3050
7439-96-5	Manganese	361		1	0.064	0.91	mg/Kg	11/03/24 15:00	11/04/24 20:25	SW6010	SW3050
7439-97-6	Mercury	0.0060	U	1	0.0060	0.014	mg/Kg	11/04/24 09:45	11/04/24 14:57	SW7471B	
7440-02-0	Nickel	14.8		1	0.081	1.81	mg/Kg	11/03/24 15:00	11/04/24 20:25	SW6010	SW3050
7440-09-7	Potassium	556		1	26.0	90.5	mg/Kg	11/03/24 15:00	11/04/24 20:25	SW6010	SW3050
7782-49-2	Selenium	0.30	U	1	0.30	0.91	mg/Kg	11/03/24 15:00	11/04/24 20:25	SW6010	SW3050
7440-22-4	Silver	0.34	J	1	0.047	0.45	mg/Kg	11/03/24 15:00	11/04/24 20:25	SW6010	SW3050
7440-23-5	Sodium	161	N	1	32.7	90.5	mg/Kg	11/03/24 15:00	11/04/24 20:25	SW6010	SW3050
7440-28-0	Thallium	0.40	U	1	0.40	1.81	mg/Kg	11/03/24 15:00	11/04/24 20:25	SW6010	SW3050
7440-62-2	Vanadium	32.5		1	0.24	1.81	mg/Kg	11/03/24 15:00	11/04/24 20:25	SW6010	SW3050
7440-66-6	Zinc	41.4	N	1	0.10	1.81	mg/Kg	11/03/24 15:00	11/04/24 20:25	SW6010	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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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Union Paving & Construction Company **SDG No.:** P4663

Contract: UNIO02 **Lab Code:** CHEM **Case No.:** P4663 **SAS No.:** P4663

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB68	Mercury	0.20	+/-0.20	U	0.20	CV	11/04/2024	14:16	LB133275

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Client: Union Paving & Construction Company **SDG No.:** P4663

Contract: UNIO02 **Lab Code:** CHEM **Case No.:** P4663 **SAS No.:** P4663

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB22	Mercury	0.20	+/-0.20	U	0.20	CV	11/04/2024	14:23	LB133275
CCB23	Mercury	0.20	+/-0.20	U	0.20	CV	11/04/2024	14:53	LB133275
CCB24	Mercury	0.20	+/-0.20	U	0.20	CV	11/04/2024	15:20	LB133275
CCB25	Mercury	0.20	+/-0.20	U	0.20	CV	11/04/2024	15:45	LB133275

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Union Paving & Construction Company **SDG No.:** P4663

Contract: UNIO02 **Lab Code:** CHEM **Case No.:** P4663 **SAS No.:** P4663

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	11/04/2024	17:47	LB133296
	Antimony	50.0	+/-50.0	U	50.0	P	11/04/2024	17:47	LB133296
	Arsenic	20.0	+/-20.0	U	20.0	P	11/04/2024	17:47	LB133296
	Barium	100	+/-100	U	100	P	11/04/2024	17:47	LB133296
	Beryllium	6.00	+/-6.00	U	6.00	P	11/04/2024	17:47	LB133296
	Cadmium	6.00	+/-6.00	U	6.00	P	11/04/2024	17:47	LB133296
	Calcium	2000	+/-2000	U	2000	P	11/04/2024	17:47	LB133296
	Chromium	10.0	+/-10.0	U	10.0	P	11/04/2024	17:47	LB133296
	Cobalt	30.0	+/-30.0	U	30.0	P	11/04/2024	17:47	LB133296
	Copper	20.0	+/-20.0	U	20.0	P	11/04/2024	17:47	LB133296
	Iron	100	+/-100	U	100	P	11/04/2024	17:47	LB133296
	Lead	12.0	+/-12.0	U	12.0	P	11/04/2024	17:47	LB133296
	Magnesium	2000	+/-2000	U	2000	P	11/04/2024	17:47	LB133296
	Manganese	20.0	+/-20.0	U	20.0	P	11/04/2024	17:47	LB133296
	Nickel	40.0	+/-40.0	U	40.0	P	11/04/2024	17:47	LB133296
	Potassium	2000	+/-2000	U	2000	P	11/04/2024	17:47	LB133296
	Selenium	20.0	+/-20.0	U	20.0	P	11/04/2024	17:47	LB133296
	Silver	10.0	+/-10.0	U	10.0	P	11/04/2024	17:47	LB133296
	Sodium	2000	+/-2000	U	2000	P	11/04/2024	17:47	LB133296
	Thallium	40.0	+/-40.0	U	40.0	P	11/04/2024	17:47	LB133296
	Vanadium	40.0	+/-40.0	U	40.0	P	11/04/2024	17:47	LB133296
	Zinc	40.0	+/-40.0	U	40.0	P	11/04/2024	17:47	LB133296

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Union Paving & Construction Company **SDG No.:** P4663

Contract: UNIO02 **Lab Code:** CHEM **Case No.:** P4663 **SAS No.:** P4663

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	11/04/2024	18:16	LB133296
	Antimony	50.0	+/-50.0	U	50.0	P	11/04/2024	18:16	LB133296
	Arsenic	20.0	+/-20.0	U	20.0	P	11/04/2024	18:16	LB133296
	Barium	100	+/-100	U	100	P	11/04/2024	18:16	LB133296
	Beryllium	6.00	+/-6.00	U	6.00	P	11/04/2024	18:16	LB133296
	Cadmium	6.00	+/-6.00	U	6.00	P	11/04/2024	18:16	LB133296
	Calcium	2000	+/-2000	U	2000	P	11/04/2024	18:16	LB133296
	Chromium	10.0	+/-10.0	U	10.0	P	11/04/2024	18:16	LB133296
	Cobalt	30.0	+/-30.0	U	30.0	P	11/04/2024	18:16	LB133296
	Copper	20.0	+/-20.0	U	20.0	P	11/04/2024	18:16	LB133296
	Iron	100	+/-100	U	100	P	11/04/2024	18:16	LB133296
	Lead	12.0	+/-12.0	U	12.0	P	11/04/2024	18:16	LB133296
	Magnesium	2000	+/-2000	U	2000	P	11/04/2024	18:16	LB133296
	Manganese	20.0	+/-20.0	U	20.0	P	11/04/2024	18:16	LB133296
	Nickel	40.0	+/-40.0	U	40.0	P	11/04/2024	18:16	LB133296
	Potassium	2000	+/-2000	U	2000	P	11/04/2024	18:16	LB133296
	Selenium	20.0	+/-20.0	U	20.0	P	11/04/2024	18:16	LB133296
	Silver	10.0	+/-10.0	U	10.0	P	11/04/2024	18:16	LB133296
	Sodium	2000	+/-2000	U	2000	P	11/04/2024	18:16	LB133296
	Thallium	40.0	+/-40.0	U	40.0	P	11/04/2024	18:16	LB133296
	Vanadium	40.0	+/-40.0	U	40.0	P	11/04/2024	18:16	LB133296
	Zinc	40.0	+/-40.0	U	40.0	P	11/04/2024	18:16	LB133296
CCB02	Aluminum	100	+/-100	U	100	P	11/04/2024	19:07	LB133296
	Antimony	50.0	+/-50.0	U	50.0	P	11/04/2024	19:07	LB133296
	Arsenic	20.0	+/-20.0	U	20.0	P	11/04/2024	19:07	LB133296
	Barium	100	+/-100	U	100	P	11/04/2024	19:07	LB133296
	Beryllium	6.00	+/-6.00	U	6.00	P	11/04/2024	19:07	LB133296
	Cadmium	6.00	+/-6.00	U	6.00	P	11/04/2024	19:07	LB133296
	Calcium	2000	+/-2000	U	2000	P	11/04/2024	19:07	LB133296
	Chromium	10.0	+/-10.0	U	10.0	P	11/04/2024	19:07	LB133296
	Cobalt	30.0	+/-30.0	U	30.0	P	11/04/2024	19:07	LB133296
	Copper	20.0	+/-20.0	U	20.0	P	11/04/2024	19:07	LB133296
	Iron	100	+/-100	U	100	P	11/04/2024	19:07	LB133296
	Lead	12.0	+/-12.0	U	12.0	P	11/04/2024	19:07	LB133296
	Magnesium	2000	+/-2000	U	2000	P	11/04/2024	19:07	LB133296
	Manganese	20.0	+/-20.0	U	20.0	P	11/04/2024	19:07	LB133296
	Nickel	40.0	+/-40.0	U	40.0	P	11/04/2024	19:07	LB133296
	Potassium	2000	+/-2000	U	2000	P	11/04/2024	19:07	LB133296
	Selenium	20.0	+/-20.0	U	20.0	P	11/04/2024	19:07	LB133296

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Union Paving & Construction Company **SDG No.:** P4663

Contract: UNIO02 **Lab Code:** CHEM **Case No.:** P4663 **SAS No.:** P4663

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	11/04/2024	19:07	LB133296
	Sodium	2000	+/-2000	U	2000	P	11/04/2024	19:07	LB133296
	Thallium	40.0	+/-40.0	U	40.0	P	11/04/2024	19:07	LB133296
	Vanadium	40.0	+/-40.0	U	40.0	P	11/04/2024	19:07	LB133296
	Zinc	40.0	+/-40.0	U	40.0	P	11/04/2024	19:07	LB133296
CCB03	Aluminum	100	+/-100	U	100	P	11/04/2024	19:58	LB133296
	Antimony	50.0	+/-50.0	U	50.0	P	11/04/2024	19:58	LB133296
	Arsenic	20.0	+/-20.0	U	20.0	P	11/04/2024	19:58	LB133296
	Barium	100	+/-100	U	100	P	11/04/2024	19:58	LB133296
	Beryllium	6.00	+/-6.00	U	6.00	P	11/04/2024	19:58	LB133296
	Cadmium	6.00	+/-6.00	U	6.00	P	11/04/2024	19:58	LB133296
	Calcium	2000	+/-2000	U	2000	P	11/04/2024	19:58	LB133296
	Chromium	10.0	+/-10.0	U	10.0	P	11/04/2024	19:58	LB133296
	Cobalt	30.0	+/-30.0	U	30.0	P	11/04/2024	19:58	LB133296
	Copper	20.0	+/-20.0	U	20.0	P	11/04/2024	19:58	LB133296
	Iron	100	+/-100	U	100	P	11/04/2024	19:58	LB133296
	Lead	12.0	+/-12.0	U	12.0	P	11/04/2024	19:58	LB133296
	Magnesium	2000	+/-2000	U	2000	P	11/04/2024	19:58	LB133296
	Manganese	20.0	+/-20.0	U	20.0	P	11/04/2024	19:58	LB133296
	Nickel	40.0	+/-40.0	U	40.0	P	11/04/2024	19:58	LB133296
	Potassium	2000	+/-2000	U	2000	P	11/04/2024	19:58	LB133296
	Selenium	20.0	+/-20.0	U	20.0	P	11/04/2024	19:58	LB133296
	Silver	10.0	+/-10.0	U	10.0	P	11/04/2024	19:58	LB133296
	Sodium	2000	+/-2000	U	2000	P	11/04/2024	19:58	LB133296
	Thallium	40.0	+/-40.0	U	40.0	P	11/04/2024	19:58	LB133296
	Vanadium	40.0	+/-40.0	U	40.0	P	11/04/2024	19:58	LB133296
	Zinc	40.0	+/-40.0	U	40.0	P	11/04/2024	19:58	LB133296
CCB04	Aluminum	100	+/-100	U	100	P	11/04/2024	21:11	LB133296
	Antimony	50.0	+/-50.0	U	50.0	P	11/04/2024	21:11	LB133296
	Arsenic	20.0	+/-20.0	U	20.0	P	11/04/2024	21:11	LB133296
	Barium	100	+/-100	U	100	P	11/04/2024	21:11	LB133296
	Beryllium	6.00	+/-6.00	U	6.00	P	11/04/2024	21:11	LB133296
	Cadmium	0.19	+/-6.00	J	6.00	P	11/04/2024	21:11	LB133296
	Calcium	2000	+/-2000	U	2000	P	11/04/2024	21:11	LB133296
	Chromium	10.0	+/-10.0	U	10.0	P	11/04/2024	21:11	LB133296
	Cobalt	30.0	+/-30.0	U	30.0	P	11/04/2024	21:11	LB133296
	Copper	20.0	+/-20.0	U	20.0	P	11/04/2024	21:11	LB133296
	Iron	100	+/-100	U	100	P	11/04/2024	21:11	LB133296
	Lead	12.0	+/-12.0	U	12.0	P	11/04/2024	21:11	LB133296

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Union Paving & Construction Company **SDG No.:** P4663

Contract: UNIO02 **Lab Code:** CHEM **Case No.:** P4663 **SAS No.:** P4663

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	11/04/2024	21:11	LB133296
	Manganese	20.0	+/-20.0	U	20.0	P	11/04/2024	21:11	LB133296
	Nickel	40.0	+/-40.0	U	40.0	P	11/04/2024	21:11	LB133296
	Potassium	2000	+/-2000	U	2000	P	11/04/2024	21:11	LB133296
	Selenium	20.0	+/-20.0	U	20.0	P	11/04/2024	21:11	LB133296
	Silver	10.0	+/-10.0	U	10.0	P	11/04/2024	21:11	LB133296
	Sodium	662	+/-2000	J	2000	P	11/04/2024	21:11	LB133296
	Thallium	40.0	+/-40.0	U	40.0	P	11/04/2024	21:11	LB133296
	Vanadium	40.0	+/-40.0	U	40.0	P	11/04/2024	21:11	LB133296
	Zinc	40.0	+/-40.0	U	40.0	P	11/04/2024	21:11	LB133296
CCB05	Aluminum	100	+/-100	U	100	P	11/04/2024	21:51	LB133296
	Antimony	50.0	+/-50.0	U	50.0	P	11/04/2024	21:51	LB133296
	Arsenic	20.0	+/-20.0	U	20.0	P	11/04/2024	21:51	LB133296
	Barium	100	+/-100	U	100	P	11/04/2024	21:51	LB133296
	Beryllium	6.00	+/-6.00	U	6.00	P	11/04/2024	21:51	LB133296
	Cadmium	0.19	+/-6.00	J	6.00	P	11/04/2024	21:51	LB133296
	Calcium	2000	+/-2000	U	2000	P	11/04/2024	21:51	LB133296
	Chromium	10.0	+/-10.0	U	10.0	P	11/04/2024	21:51	LB133296
	Cobalt	30.0	+/-30.0	U	30.0	P	11/04/2024	21:51	LB133296
	Copper	20.0	+/-20.0	U	20.0	P	11/04/2024	21:51	LB133296
	Iron	100	+/-100	U	100	P	11/04/2024	21:51	LB133296
	Lead	12.0	+/-12.0	U	12.0	P	11/04/2024	21:51	LB133296
	Magnesium	2000	+/-2000	U	2000	P	11/04/2024	21:51	LB133296
	Manganese	20.0	+/-20.0	U	20.0	P	11/04/2024	21:51	LB133296
	Nickel	40.0	+/-40.0	U	40.0	P	11/04/2024	21:51	LB133296
	Potassium	2000	+/-2000	U	2000	P	11/04/2024	21:51	LB133296
	Selenium	20.0	+/-20.0	U	20.0	P	11/04/2024	21:51	LB133296
	Silver	10.0	+/-10.0	U	10.0	P	11/04/2024	21:51	LB133296
	Sodium	669	+/-2000	J	2000	P	11/04/2024	21:51	LB133296
	Thallium	40.0	+/-40.0	U	40.0	P	11/04/2024	21:51	LB133296
	Vanadium	40.0	+/-40.0	U	40.0	P	11/04/2024	21:51	LB133296
	Zinc	40.0	+/-40.0	U	40.0	P	11/04/2024	21:51	LB133296

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Union Paving & Construction Company **SDG No.:** P4663

Contract: UNIO02 **Lab Code:** CHEM **Case No.:** P4663 **SAS No.:** P4663

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	11/06/2024	17:43	LB133323
	Antimony	50.0	+/-50.0	U	50.0	P	11/06/2024	17:43	LB133323
	Arsenic	20.0	+/-20.0	U	20.0	P	11/06/2024	17:43	LB133323
	Barium	100	+/-100	U	100	P	11/06/2024	17:43	LB133323
	Beryllium	6.00	+/-6.00	U	6.00	P	11/06/2024	17:43	LB133323
	Cadmium	6.00	+/-6.00	U	6.00	P	11/06/2024	17:43	LB133323
	Calcium	2000	+/-2000	U	2000	P	11/06/2024	17:43	LB133323
	Chromium	10.0	+/-10.0	U	10.0	P	11/06/2024	17:43	LB133323
	Cobalt	30.0	+/-30.0	U	30.0	P	11/06/2024	17:43	LB133323
	Copper	20.0	+/-20.0	U	20.0	P	11/06/2024	17:43	LB133323
	Iron	100	+/-100	U	100	P	11/06/2024	17:43	LB133323
	Lead	12.0	+/-12.0	U	12.0	P	11/06/2024	17:43	LB133323
	Magnesium	2000	+/-2000	U	2000	P	11/06/2024	17:43	LB133323
	Manganese	20.0	+/-20.0	U	20.0	P	11/06/2024	17:43	LB133323
	Nickel	40.0	+/-40.0	U	40.0	P	11/06/2024	17:43	LB133323
	Potassium	2000	+/-2000	U	2000	P	11/06/2024	17:43	LB133323
	Selenium	20.0	+/-20.0	U	20.0	P	11/06/2024	17:43	LB133323
	Silver	10.0	+/-10.0	U	10.0	P	11/06/2024	17:43	LB133323
	Sodium	2000	+/-2000	U	2000	P	11/06/2024	17:43	LB133323
	Thallium	40.0	+/-40.0	U	40.0	P	11/06/2024	17:43	LB133323
	Vanadium	40.0	+/-40.0	U	40.0	P	11/06/2024	17:43	LB133323
	Zinc	40.0	+/-40.0	U	40.0	P	11/06/2024	17:43	LB133323

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Union Paving & Construction Company **SDG No.:** P4663

Contract: UNIO02 **Lab Code:** CHEM **Case No.:** P4663 **SAS No.:** P4663

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	11/06/2024	18:27	LB133323
	Antimony	50.0	+/-50.0	U	50.0	P	11/06/2024	18:27	LB133323
	Arsenic	20.0	+/-20.0	U	20.0	P	11/06/2024	18:27	LB133323
	Barium	100	+/-100	U	100	P	11/06/2024	18:27	LB133323
	Beryllium	6.00	+/-6.00	U	6.00	P	11/06/2024	18:27	LB133323
	Cadmium	0.21	+/-6.00	J	6.00	P	11/06/2024	18:27	LB133323
	Calcium	2000	+/-2000	U	2000	P	11/06/2024	18:27	LB133323
	Chromium	10.0	+/-10.0	U	10.0	P	11/06/2024	18:27	LB133323
	Cobalt	30.0	+/-30.0	U	30.0	P	11/06/2024	18:27	LB133323
	Copper	20.0	+/-20.0	U	20.0	P	11/06/2024	18:27	LB133323
	Iron	100	+/-100	U	100	P	11/06/2024	18:27	LB133323
	Lead	12.0	+/-12.0	U	12.0	P	11/06/2024	18:27	LB133323
	Magnesium	2000	+/-2000	U	2000	P	11/06/2024	18:27	LB133323
	Manganese	20.0	+/-20.0	U	20.0	P	11/06/2024	18:27	LB133323
	Nickel	40.0	+/-40.0	U	40.0	P	11/06/2024	18:27	LB133323
	Potassium	2000	+/-2000	U	2000	P	11/06/2024	18:27	LB133323
	Selenium	20.0	+/-20.0	U	20.0	P	11/06/2024	18:27	LB133323
	Silver	10.0	+/-10.0	U	10.0	P	11/06/2024	18:27	LB133323
	Sodium	2000	+/-2000	U	2000	P	11/06/2024	18:27	LB133323
	Thallium	40.0	+/-40.0	U	40.0	P	11/06/2024	18:27	LB133323
	Vanadium	40.0	+/-40.0	U	40.0	P	11/06/2024	18:27	LB133323
	Zinc	40.0	+/-40.0	U	40.0	P	11/06/2024	18:27	LB133323
CCB02	Aluminum	100	+/-100	U	100	P	11/06/2024	18:44	LB133323
	Antimony	50.0	+/-50.0	U	50.0	P	11/06/2024	18:44	LB133323
	Arsenic	20.0	+/-20.0	U	20.0	P	11/06/2024	18:44	LB133323
	Barium	100	+/-100	U	100	P	11/06/2024	18:44	LB133323
	Beryllium	6.00	+/-6.00	U	6.00	P	11/06/2024	18:44	LB133323
	Cadmium	6.00	+/-6.00	U	6.00	P	11/06/2024	18:44	LB133323
	Calcium	2000	+/-2000	U	2000	P	11/06/2024	18:44	LB133323
	Chromium	10.0	+/-10.0	U	10.0	P	11/06/2024	18:44	LB133323
	Cobalt	30.0	+/-30.0	U	30.0	P	11/06/2024	18:44	LB133323
	Copper	20.0	+/-20.0	U	20.0	P	11/06/2024	18:44	LB133323
	Iron	100	+/-100	U	100	P	11/06/2024	18:44	LB133323
	Lead	12.0	+/-12.0	U	12.0	P	11/06/2024	18:44	LB133323
	Magnesium	2000	+/-2000	U	2000	P	11/06/2024	18:44	LB133323
	Manganese	20.0	+/-20.0	U	20.0	P	11/06/2024	18:44	LB133323
	Nickel	40.0	+/-40.0	U	40.0	P	11/06/2024	18:44	LB133323
	Potassium	2000	+/-2000	U	2000	P	11/06/2024	18:44	LB133323
	Selenium	20.0	+/-20.0	U	20.0	P	11/06/2024	18:44	LB133323

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Union Paving & Construction Company **SDG No.:** P4663

Contract: UNIO02 **Lab Code:** CHEM **Case No.:** P4663 **SAS No.:** P4663

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	11/06/2024	18:44	LB133323
	Sodium	2000	+/-2000	U	2000	P	11/06/2024	18:44	LB133323
	Thallium	40.0	+/-40.0	U	40.0	P	11/06/2024	18:44	LB133323
	Vanadium	40.0	+/-40.0	U	40.0	P	11/06/2024	18:44	LB133323
	Zinc	40.0	+/-40.0	U	40.0	P	11/06/2024	18:44	LB133323
CCB03	Aluminum	100	+/-100	U	100	P	11/06/2024	19:36	LB133323
	Antimony	50.0	+/-50.0	U	50.0	P	11/06/2024	19:36	LB133323
	Arsenic	20.0	+/-20.0	U	20.0	P	11/06/2024	19:36	LB133323
	Barium	100	+/-100	U	100	P	11/06/2024	19:36	LB133323
	Beryllium	6.00	+/-6.00	U	6.00	P	11/06/2024	19:36	LB133323
	Cadmium	6.00	+/-6.00	U	6.00	P	11/06/2024	19:36	LB133323
	Calcium	165	+/-2000	J	2000	P	11/06/2024	19:36	LB133323
	Chromium	10.0	+/-10.0	U	10.0	P	11/06/2024	19:36	LB133323
	Cobalt	30.0	+/-30.0	U	30.0	P	11/06/2024	19:36	LB133323
	Copper	20.0	+/-20.0	U	20.0	P	11/06/2024	19:36	LB133323
	Iron	100	+/-100	U	100	P	11/06/2024	19:36	LB133323
	Lead	12.0	+/-12.0	U	12.0	P	11/06/2024	19:36	LB133323
	Magnesium	2000	+/-2000	U	2000	P	11/06/2024	19:36	LB133323
	Manganese	20.0	+/-20.0	U	20.0	P	11/06/2024	19:36	LB133323
	Nickel	40.0	+/-40.0	U	40.0	P	11/06/2024	19:36	LB133323
	Potassium	2000	+/-2000	U	2000	P	11/06/2024	19:36	LB133323
	Selenium	20.0	+/-20.0	U	20.0	P	11/06/2024	19:36	LB133323
	Silver	10.0	+/-10.0	U	10.0	P	11/06/2024	19:36	LB133323
	Sodium	2000	+/-2000	U	2000	P	11/06/2024	19:36	LB133323
	Thallium	40.0	+/-40.0	U	40.0	P	11/06/2024	19:36	LB133323
	Vanadium	40.0	+/-40.0	U	40.0	P	11/06/2024	19:36	LB133323
	Zinc	23.7	+/-40.0	J	40.0	P	11/06/2024	19:36	LB133323
CCB04	Aluminum	100	+/-100	U	100	P	11/06/2024	20:26	LB133323
	Antimony	50.0	+/-50.0	U	50.0	P	11/06/2024	20:26	LB133323
	Arsenic	20.0	+/-20.0	U	20.0	P	11/06/2024	20:26	LB133323
	Barium	100	+/-100	U	100	P	11/06/2024	20:26	LB133323
	Beryllium	6.00	+/-6.00	U	6.00	P	11/06/2024	20:26	LB133323
	Cadmium	6.00	+/-6.00	U	6.00	P	11/06/2024	20:26	LB133323
	Calcium	2000	+/-2000	U	2000	P	11/06/2024	20:26	LB133323
	Chromium	10.0	+/-10.0	U	10.0	P	11/06/2024	20:26	LB133323
	Cobalt	30.0	+/-30.0	U	30.0	P	11/06/2024	20:26	LB133323
	Copper	20.0	+/-20.0	U	20.0	P	11/06/2024	20:26	LB133323
	Iron	100	+/-100	U	100	P	11/06/2024	20:26	LB133323
	Lead	12.0	+/-12.0	U	12.0	P	11/06/2024	20:26	LB133323

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Union Paving & Construction Company **SDG No.:** P4663

Contract: UNIO02 **Lab Code:** CHEM **Case No.:** P4663 **SAS No.:** P4663

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	11/06/2024	20:26	LB133323
	Manganese	20.0	+/-20.0	U	20.0	P	11/06/2024	20:26	LB133323
	Nickel	40.0	+/-40.0	U	40.0	P	11/06/2024	20:26	LB133323
	Potassium	2000	+/-2000	U	2000	P	11/06/2024	20:26	LB133323
	Selenium	20.0	+/-20.0	U	20.0	P	11/06/2024	20:26	LB133323
	Silver	10.0	+/-10.0	U	10.0	P	11/06/2024	20:26	LB133323
	Sodium	2000	+/-2000	U	2000	P	11/06/2024	20:26	LB133323
	Thallium	40.0	+/-40.0	U	40.0	P	11/06/2024	20:26	LB133323
	Vanadium	40.0	+/-40.0	U	40.0	P	11/06/2024	20:26	LB133323
	Zinc	40.0	+/-40.0	U	40.0	P	11/06/2024	20:26	LB133323
CCB05	Aluminum	100	+/-100	U	100	P	11/06/2024	21:17	LB133323
	Antimony	50.0	+/-50.0	U	50.0	P	11/06/2024	21:17	LB133323
	Arsenic	20.0	+/-20.0	U	20.0	P	11/06/2024	21:17	LB133323
	Barium	100	+/-100	U	100	P	11/06/2024	21:17	LB133323
	Beryllium	6.00	+/-6.00	U	6.00	P	11/06/2024	21:17	LB133323
	Cadmium	6.00	+/-6.00	U	6.00	P	11/06/2024	21:17	LB133323
	Calcium	2000	+/-2000	U	2000	P	11/06/2024	21:17	LB133323
	Chromium	10.0	+/-10.0	U	10.0	P	11/06/2024	21:17	LB133323
	Cobalt	30.0	+/-30.0	U	30.0	P	11/06/2024	21:17	LB133323
	Copper	20.0	+/-20.0	U	20.0	P	11/06/2024	21:17	LB133323
	Iron	100	+/-100	U	100	P	11/06/2024	21:17	LB133323
	Lead	12.0	+/-12.0	U	12.0	P	11/06/2024	21:17	LB133323
	Magnesium	2000	+/-2000	U	2000	P	11/06/2024	21:17	LB133323
	Manganese	20.0	+/-20.0	U	20.0	P	11/06/2024	21:17	LB133323
	Nickel	40.0	+/-40.0	U	40.0	P	11/06/2024	21:17	LB133323
	Potassium	2000	+/-2000	U	2000	P	11/06/2024	21:17	LB133323
	Selenium	20.0	+/-20.0	U	20.0	P	11/06/2024	21:17	LB133323
	Silver	10.0	+/-10.0	U	10.0	P	11/06/2024	21:17	LB133323
	Sodium	2000	+/-2000	U	2000	P	11/06/2024	21:17	LB133323
	Thallium	40.0	+/-40.0	U	40.0	P	11/06/2024	21:17	LB133323
	Vanadium	40.0	+/-40.0	U	40.0	P	11/06/2024	21:17	LB133323
	Zinc	40.0	+/-40.0	U	40.0	P	11/06/2024	21:17	LB133323
CCB06	Aluminum	100	+/-100	U	100	P	11/06/2024	22:15	LB133323
	Antimony	50.0	+/-50.0	U	50.0	P	11/06/2024	22:15	LB133323
	Arsenic	20.0	+/-20.0	U	20.0	P	11/06/2024	22:15	LB133323
	Barium	100	+/-100	U	100	P	11/06/2024	22:15	LB133323
	Beryllium	6.00	+/-6.00	U	6.00	P	11/06/2024	22:15	LB133323
	Cadmium	6.00	+/-6.00	U	6.00	P	11/06/2024	22:15	LB133323
	Calcium	2000	+/-2000	U	2000	P	11/06/2024	22:15	LB133323

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Union Paving & Construction Company **SDG No.:** P4663

Contract: UNIO02 **Lab Code:** CHEM **Case No.:** P4663 **SAS No.:** P4663

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	11/06/2024	22:15	LB133323
	Cobalt	30.0	+/-30.0	U	30.0	P	11/06/2024	22:15	LB133323
	Copper	20.0	+/-20.0	U	20.0	P	11/06/2024	22:15	LB133323
	Iron	100	+/-100	U	100	P	11/06/2024	22:15	LB133323
	Lead	12.0	+/-12.0	U	12.0	P	11/06/2024	22:15	LB133323
	Magnesium	2000	+/-2000	U	2000	P	11/06/2024	22:15	LB133323
	Manganese	20.0	+/-20.0	U	20.0	P	11/06/2024	22:15	LB133323
	Nickel	40.0	+/-40.0	U	40.0	P	11/06/2024	22:15	LB133323
	Potassium	2000	+/-2000	U	2000	P	11/06/2024	22:15	LB133323
	Selenium	20.0	+/-20.0	U	20.0	P	11/06/2024	22:15	LB133323
	Silver	10.0	+/-10.0	U	10.0	P	11/06/2024	22:15	LB133323
	Sodium	2000	+/-2000	U	2000	P	11/06/2024	22:15	LB133323
	Thallium	40.0	+/-40.0	U	40.0	P	11/06/2024	22:15	LB133323
	Vanadium	40.0	+/-40.0	U	40.0	P	11/06/2024	22:15	LB133323
	Zinc	40.0	+/-40.0	U	40.0	P	11/06/2024	22:15	LB133323
CCB07	Aluminum	100	+/-100	U	100	P	11/06/2024	23:07	LB133323
	Antimony	50.0	+/-50.0	U	50.0	P	11/06/2024	23:07	LB133323
	Arsenic	20.0	+/-20.0	U	20.0	P	11/06/2024	23:07	LB133323
	Barium	100	+/-100	U	100	P	11/06/2024	23:07	LB133323
	Beryllium	6.00	+/-6.00	U	6.00	P	11/06/2024	23:07	LB133323
	Cadmium	6.00	+/-6.00	U	6.00	P	11/06/2024	23:07	LB133323
	Calcium	2000	+/-2000	U	2000	P	11/06/2024	23:07	LB133323
	Chromium	10.0	+/-10.0	U	10.0	P	11/06/2024	23:07	LB133323
	Cobalt	30.0	+/-30.0	U	30.0	P	11/06/2024	23:07	LB133323
	Copper	20.0	+/-20.0	U	20.0	P	11/06/2024	23:07	LB133323
	Iron	100	+/-100	U	100	P	11/06/2024	23:07	LB133323
	Lead	12.0	+/-12.0	U	12.0	P	11/06/2024	23:07	LB133323
	Magnesium	2000	+/-2000	U	2000	P	11/06/2024	23:07	LB133323
	Manganese	20.0	+/-20.0	U	20.0	P	11/06/2024	23:07	LB133323
	Nickel	40.0	+/-40.0	U	40.0	P	11/06/2024	23:07	LB133323
	Potassium	2000	+/-2000	U	2000	P	11/06/2024	23:07	LB133323
	Selenium	20.0	+/-20.0	U	20.0	P	11/06/2024	23:07	LB133323
	Silver	10.0	+/-10.0	U	10.0	P	11/06/2024	23:07	LB133323
	Sodium	2000	+/-2000	U	2000	P	11/06/2024	23:07	LB133323
	Thallium	40.0	+/-40.0	U	40.0	P	11/06/2024	23:07	LB133323
	Vanadium	40.0	+/-40.0	U	40.0	P	11/06/2024	23:07	LB133323
	Zinc	40.0	+/-40.0	U	40.0	P	11/06/2024	23:07	LB133323
CCB08	Aluminum	100	+/-100	U	100	P	11/07/2024	00:03	LB133323
	Antimony	50.0	+/-50.0	U	50.0	P	11/07/2024	00:03	LB133323

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Union Paving & Construction Company **SDG No.:** P4663

Contract: UNIO02 **Lab Code:** CHEM **Case No.:** P4663 **SAS No.:** P4663

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	11/07/2024	00:03	LB133323
	Barium	100	+/-100	U	100	P	11/07/2024	00:03	LB133323
	Beryllium	6.00	+/-6.00	U	6.00	P	11/07/2024	00:03	LB133323
	Cadmium	6.00	+/-6.00	U	6.00	P	11/07/2024	00:03	LB133323
	Calcium	2000	+/-2000	U	2000	P	11/07/2024	00:03	LB133323
	Chromium	10.0	+/-10.0	U	10.0	P	11/07/2024	00:03	LB133323
	Cobalt	30.0	+/-30.0	U	30.0	P	11/07/2024	00:03	LB133323
	Copper	20.0	+/-20.0	U	20.0	P	11/07/2024	00:03	LB133323
	Iron	100	+/-100	U	100	P	11/07/2024	00:03	LB133323
	Lead	12.0	+/-12.0	U	12.0	P	11/07/2024	00:03	LB133323
	Magnesium	2000	+/-2000	U	2000	P	11/07/2024	00:03	LB133323
	Manganese	20.0	+/-20.0	U	20.0	P	11/07/2024	00:03	LB133323
	Nickel	40.0	+/-40.0	U	40.0	P	11/07/2024	00:03	LB133323
	Potassium	2000	+/-2000	U	2000	P	11/07/2024	00:03	LB133323
	Selenium	20.0	+/-20.0	U	20.0	P	11/07/2024	00:03	LB133323
	Silver	10.0	+/-10.0	U	10.0	P	11/07/2024	00:03	LB133323
	Sodium	2000	+/-2000	U	2000	P	11/07/2024	00:03	LB133323
	Thallium	40.0	+/-40.0	U	40.0	P	11/07/2024	00:03	LB133323
	Vanadium	40.0	+/-40.0	U	40.0	P	11/07/2024	00:03	LB133323
	Zinc	40.0	+/-40.0	U	40.0	P	11/07/2024	00:03	LB133323
CCB09	Aluminum	100	+/-100	U	100	P	11/07/2024	00:57	LB133323
	Antimony	50.0	+/-50.0	U	50.0	P	11/07/2024	00:57	LB133323
	Arsenic	20.0	+/-20.0	U	20.0	P	11/07/2024	00:57	LB133323
	Barium	100	+/-100	U	100	P	11/07/2024	00:57	LB133323
	Beryllium	6.00	+/-6.00	U	6.00	P	11/07/2024	00:57	LB133323
	Cadmium	6.00	+/-6.00	U	6.00	P	11/07/2024	00:57	LB133323
	Calcium	2000	+/-2000	U	2000	P	11/07/2024	00:57	LB133323
	Chromium	10.0	+/-10.0	U	10.0	P	11/07/2024	00:57	LB133323
	Cobalt	30.0	+/-30.0	U	30.0	P	11/07/2024	00:57	LB133323
	Copper	20.0	+/-20.0	U	20.0	P	11/07/2024	00:57	LB133323
	Iron	100	+/-100	U	100	P	11/07/2024	00:57	LB133323
	Lead	12.0	+/-12.0	U	12.0	P	11/07/2024	00:57	LB133323
	Magnesium	2000	+/-2000	U	2000	P	11/07/2024	00:57	LB133323
	Manganese	20.0	+/-20.0	U	20.0	P	11/07/2024	00:57	LB133323
	Nickel	40.0	+/-40.0	U	40.0	P	11/07/2024	00:57	LB133323
	Potassium	2000	+/-2000	U	2000	P	11/07/2024	00:57	LB133323
	Selenium	20.0	+/-20.0	U	20.0	P	11/07/2024	00:57	LB133323
	Silver	10.0	+/-10.0	U	10.0	P	11/07/2024	00:57	LB133323
	Sodium	2000	+/-2000	U	2000	P	11/07/2024	00:57	LB133323

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Union Paving & Construction Company **SDG No.:** P4663

Contract: UNIO02 **Lab Code:** CHEM **Case No.:** P4663 **SAS No.:** P4663

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	11/07/2024	00:57	LB133323
	Vanadium	40.0	+/-40.0	U	40.0	P	11/07/2024	00:57	LB133323
	Zinc	40.0	+/-40.0	U	40.0	P	11/07/2024	00:57	LB133323
CCB10	Aluminum	100	+/-100	U	100	P	11/07/2024	01:53	LB133323
	Antimony	50.0	+/-50.0	U	50.0	P	11/07/2024	01:53	LB133323
	Arsenic	20.0	+/-20.0	U	20.0	P	11/07/2024	01:53	LB133323
	Barium	100	+/-100	U	100	P	11/07/2024	01:53	LB133323
	Beryllium	6.00	+/-6.00	U	6.00	P	11/07/2024	01:53	LB133323
	Cadmium	6.00	+/-6.00	U	6.00	P	11/07/2024	01:53	LB133323
	Calcium	2000	+/-2000	U	2000	P	11/07/2024	01:53	LB133323
	Chromium	10.0	+/-10.0	U	10.0	P	11/07/2024	01:53	LB133323
	Cobalt	30.0	+/-30.0	U	30.0	P	11/07/2024	01:53	LB133323
	Copper	20.0	+/-20.0	U	20.0	P	11/07/2024	01:53	LB133323
	Iron	100	+/-100	U	100	P	11/07/2024	01:53	LB133323
	Lead	12.0	+/-12.0	U	12.0	P	11/07/2024	01:53	LB133323
	Magnesium	2000	+/-2000	U	2000	P	11/07/2024	01:53	LB133323
	Manganese	20.0	+/-20.0	U	20.0	P	11/07/2024	01:53	LB133323
	Nickel	40.0	+/-40.0	U	40.0	P	11/07/2024	01:53	LB133323
	Potassium	2000	+/-2000	U	2000	P	11/07/2024	01:53	LB133323
	Selenium	20.0	+/-20.0	U	20.0	P	11/07/2024	01:53	LB133323
	Silver	10.0	+/-10.0	U	10.0	P	11/07/2024	01:53	LB133323
	Sodium	2000	+/-2000	U	2000	P	11/07/2024	01:53	LB133323
	Thallium	40.0	+/-40.0	U	40.0	P	11/07/2024	01:53	LB133323
	Vanadium	40.0	+/-40.0	U	40.0	P	11/07/2024	01:53	LB133323
	Zinc	40.0	+/-40.0	U	40.0	P	11/07/2024	01:53	LB133323

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Union Paving & Construction Company **SDG No.:** P4663

Contract: UNIO02 **Lab Code:** CHEM **Case No.:** P4663 **SAS No.:** P4663

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	11/07/2024	14:38	LB133344
	Antimony	50.0	+/-50.0	U	50.0	P	11/07/2024	14:38	LB133344
	Arsenic	20.0	+/-20.0	U	20.0	P	11/07/2024	14:38	LB133344
	Barium	100	+/-100	U	100	P	11/07/2024	14:38	LB133344
	Beryllium	6.00	+/-6.00	U	6.00	P	11/07/2024	14:38	LB133344
	Cadmium	6.00	+/-6.00	U	6.00	P	11/07/2024	14:38	LB133344
	Calcium	2000	+/-2000	U	2000	P	11/07/2024	14:38	LB133344
	Chromium	10.0	+/-10.0	U	10.0	P	11/07/2024	14:38	LB133344
	Cobalt	30.0	+/-30.0	U	30.0	P	11/07/2024	14:38	LB133344
	Copper	20.0	+/-20.0	U	20.0	P	11/07/2024	14:38	LB133344
	Iron	100	+/-100	U	100	P	11/07/2024	14:38	LB133344
	Lead	12.0	+/-12.0	U	12.0	P	11/07/2024	14:38	LB133344
	Magnesium	2000	+/-2000	U	2000	P	11/07/2024	14:38	LB133344
	Manganese	20.0	+/-20.0	U	20.0	P	11/07/2024	14:38	LB133344
	Nickel	40.0	+/-40.0	U	40.0	P	11/07/2024	14:38	LB133344
	Potassium	2000	+/-2000	U	2000	P	11/07/2024	14:38	LB133344
	Selenium	20.0	+/-20.0	U	20.0	P	11/07/2024	14:38	LB133344
	Silver	10.0	+/-10.0	U	10.0	P	11/07/2024	14:38	LB133344
	Sodium	2000	+/-2000	U	2000	P	11/07/2024	14:38	LB133344
	Thallium	40.0	+/-40.0	U	40.0	P	11/07/2024	14:38	LB133344
	Vanadium	40.0	+/-40.0	U	40.0	P	11/07/2024	14:38	LB133344
	Zinc	40.0	+/-40.0	U	40.0	P	11/07/2024	14:38	LB133344

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Union Paving & Construction Company **SDG No.:** P4663

Contract: UNIO02 **Lab Code:** CHEM **Case No.:** P4663 **SAS No.:** P4663

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	11/07/2024	15:05	LB133344
	Antimony	50.0	+/-50.0	U	50.0	P	11/07/2024	15:05	LB133344
	Arsenic	20.0	+/-20.0	U	20.0	P	11/07/2024	15:05	LB133344
	Barium	100	+/-100	U	100	P	11/07/2024	15:05	LB133344
	Beryllium	6.00	+/-6.00	U	6.00	P	11/07/2024	15:05	LB133344
	Cadmium	6.00	+/-6.00	U	6.00	P	11/07/2024	15:05	LB133344
	Calcium	2000	+/-2000	U	2000	P	11/07/2024	15:05	LB133344
	Chromium	10.0	+/-10.0	U	10.0	P	11/07/2024	15:05	LB133344
	Cobalt	30.0	+/-30.0	U	30.0	P	11/07/2024	15:05	LB133344
	Copper	20.0	+/-20.0	U	20.0	P	11/07/2024	15:05	LB133344
	Iron	100	+/-100	U	100	P	11/07/2024	15:05	LB133344
	Lead	12.0	+/-12.0	U	12.0	P	11/07/2024	15:05	LB133344
	Magnesium	2000	+/-2000	U	2000	P	11/07/2024	15:05	LB133344
	Manganese	20.0	+/-20.0	U	20.0	P	11/07/2024	15:05	LB133344
	Nickel	40.0	+/-40.0	U	40.0	P	11/07/2024	15:05	LB133344
	Potassium	2000	+/-2000	U	2000	P	11/07/2024	15:05	LB133344
	Selenium	20.0	+/-20.0	U	20.0	P	11/07/2024	15:05	LB133344
	Silver	10.0	+/-10.0	U	10.0	P	11/07/2024	15:05	LB133344
	Sodium	2000	+/-2000	U	2000	P	11/07/2024	15:05	LB133344
	Thallium	40.0	+/-40.0	U	40.0	P	11/07/2024	15:05	LB133344
	Vanadium	40.0	+/-40.0	U	40.0	P	11/07/2024	15:05	LB133344
	Zinc	40.0	+/-40.0	U	40.0	P	11/07/2024	15:05	LB133344
CCB02	Aluminum	100	+/-100	U	100	P	11/07/2024	15:58	LB133344
	Antimony	50.0	+/-50.0	U	50.0	P	11/07/2024	15:58	LB133344
	Arsenic	20.0	+/-20.0	U	20.0	P	11/07/2024	15:58	LB133344
	Barium	100	+/-100	U	100	P	11/07/2024	15:58	LB133344
	Beryllium	6.00	+/-6.00	U	6.00	P	11/07/2024	15:58	LB133344
	Cadmium	6.00	+/-6.00	U	6.00	P	11/07/2024	15:58	LB133344
	Calcium	2000	+/-2000	U	2000	P	11/07/2024	15:58	LB133344
	Chromium	10.0	+/-10.0	U	10.0	P	11/07/2024	15:58	LB133344
	Cobalt	30.0	+/-30.0	U	30.0	P	11/07/2024	15:58	LB133344
	Copper	20.0	+/-20.0	U	20.0	P	11/07/2024	15:58	LB133344
	Iron	100	+/-100	U	100	P	11/07/2024	15:58	LB133344
	Lead	12.0	+/-12.0	U	12.0	P	11/07/2024	15:58	LB133344
	Magnesium	2000	+/-2000	U	2000	P	11/07/2024	15:58	LB133344
	Manganese	20.0	+/-20.0	U	20.0	P	11/07/2024	15:58	LB133344
	Nickel	40.0	+/-40.0	U	40.0	P	11/07/2024	15:58	LB133344
	Potassium	2000	+/-2000	U	2000	P	11/07/2024	15:58	LB133344
	Selenium	20.0	+/-20.0	U	20.0	P	11/07/2024	15:58	LB133344

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Union Paving & Construction Company **SDG No.:** P4663

Contract: UNIO02 **Lab Code:** CHEM **Case No.:** P4663 **SAS No.:** P4663

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	11/07/2024	15:58	LB133344
	Sodium	2000	+/-2000	U	2000	P	11/07/2024	15:58	LB133344
	Thallium	40.0	+/-40.0	U	40.0	P	11/07/2024	15:58	LB133344
	Vanadium	40.0	+/-40.0	U	40.0	P	11/07/2024	15:58	LB133344
	Zinc	40.0	+/-40.0	U	40.0	P	11/07/2024	15:58	LB133344
CCB03	Aluminum	100	+/-100	U	100	P	11/07/2024	16:49	LB133344
	Antimony	50.0	+/-50.0	U	50.0	P	11/07/2024	16:49	LB133344
	Arsenic	20.0	+/-20.0	U	20.0	P	11/07/2024	16:49	LB133344
	Barium	100	+/-100	U	100	P	11/07/2024	16:49	LB133344
	Beryllium	6.00	+/-6.00	U	6.00	P	11/07/2024	16:49	LB133344
	Cadmium	6.00	+/-6.00	U	6.00	P	11/07/2024	16:49	LB133344
	Calcium	2000	+/-2000	U	2000	P	11/07/2024	16:49	LB133344
	Chromium	10.0	+/-10.0	U	10.0	P	11/07/2024	16:49	LB133344
	Cobalt	30.0	+/-30.0	U	30.0	P	11/07/2024	16:49	LB133344
	Copper	20.0	+/-20.0	U	20.0	P	11/07/2024	16:49	LB133344
	Iron	100	+/-100	U	100	P	11/07/2024	16:49	LB133344
	Lead	12.0	+/-12.0	U	12.0	P	11/07/2024	16:49	LB133344
	Magnesium	2000	+/-2000	U	2000	P	11/07/2024	16:49	LB133344
	Manganese	20.0	+/-20.0	U	20.0	P	11/07/2024	16:49	LB133344
	Nickel	40.0	+/-40.0	U	40.0	P	11/07/2024	16:49	LB133344
	Potassium	2000	+/-2000	U	2000	P	11/07/2024	16:49	LB133344
	Selenium	20.0	+/-20.0	U	20.0	P	11/07/2024	16:49	LB133344
	Silver	10.0	+/-10.0	U	10.0	P	11/07/2024	16:49	LB133344
	Sodium	2000	+/-2000	U	2000	P	11/07/2024	16:49	LB133344
	Thallium	40.0	+/-40.0	U	40.0	P	11/07/2024	16:49	LB133344
	Vanadium	40.0	+/-40.0	U	40.0	P	11/07/2024	16:49	LB133344
	Zinc	40.0	+/-40.0	U	40.0	P	11/07/2024	16:49	LB133344
CCB04	Aluminum	100	+/-100	U	100	P	11/07/2024	18:04	LB133344
	Antimony	50.0	+/-50.0	U	50.0	P	11/07/2024	18:04	LB133344
	Arsenic	20.0	+/-20.0	U	20.0	P	11/07/2024	18:04	LB133344
	Barium	100	+/-100	U	100	P	11/07/2024	18:04	LB133344
	Beryllium	6.00	+/-6.00	U	6.00	P	11/07/2024	18:04	LB133344
	Cadmium	6.00	+/-6.00	U	6.00	P	11/07/2024	18:04	LB133344
	Calcium	2000	+/-2000	U	2000	P	11/07/2024	18:04	LB133344
	Chromium	10.0	+/-10.0	U	10.0	P	11/07/2024	18:04	LB133344
	Cobalt	30.0	+/-30.0	U	30.0	P	11/07/2024	18:04	LB133344
	Copper	20.0	+/-20.0	U	20.0	P	11/07/2024	18:04	LB133344
	Iron	100	+/-100	U	100	P	11/07/2024	18:04	LB133344
	Lead	12.0	+/-12.0	U	12.0	P	11/07/2024	18:04	LB133344

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Union Paving & Construction Company **SDG No.:** P4663

Contract: UNIO02 **Lab Code:** CHEM **Case No.:** P4663 **SAS No.:** P4663

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	11/07/2024	18:04	LB133344
	Manganese	20.0	+/-20.0	U	20.0	P	11/07/2024	18:04	LB133344
	Nickel	40.0	+/-40.0	U	40.0	P	11/07/2024	18:04	LB133344
	Potassium	2000	+/-2000	U	2000	P	11/07/2024	18:04	LB133344
	Selenium	20.0	+/-20.0	U	20.0	P	11/07/2024	18:04	LB133344
	Silver	10.0	+/-10.0	U	10.0	P	11/07/2024	18:04	LB133344
	Sodium	2000	+/-2000	U	2000	P	11/07/2024	18:04	LB133344
	Thallium	40.0	+/-40.0	U	40.0	P	11/07/2024	18:04	LB133344
	Vanadium	40.0	+/-40.0	U	40.0	P	11/07/2024	18:04	LB133344
	Zinc	40.0	+/-40.0	U	40.0	P	11/07/2024	18:04	LB133344
CCB05	Aluminum	100	+/-100	U	100	P	11/07/2024	18:37	LB133344
	Antimony	50.0	+/-50.0	U	50.0	P	11/07/2024	18:37	LB133344
	Arsenic	20.0	+/-20.0	U	20.0	P	11/07/2024	18:37	LB133344
	Barium	100	+/-100	U	100	P	11/07/2024	18:37	LB133344
	Beryllium	6.00	+/-6.00	U	6.00	P	11/07/2024	18:37	LB133344
	Cadmium	6.00	+/-6.00	U	6.00	P	11/07/2024	18:37	LB133344
	Calcium	2000	+/-2000	U	2000	P	11/07/2024	18:37	LB133344
	Chromium	10.0	+/-10.0	U	10.0	P	11/07/2024	18:37	LB133344
	Cobalt	30.0	+/-30.0	U	30.0	P	11/07/2024	18:37	LB133344
	Copper	20.0	+/-20.0	U	20.0	P	11/07/2024	18:37	LB133344
	Iron	100	+/-100	U	100	P	11/07/2024	18:37	LB133344
	Lead	12.0	+/-12.0	U	12.0	P	11/07/2024	18:37	LB133344
	Magnesium	2000	+/-2000	U	2000	P	11/07/2024	18:37	LB133344
	Manganese	20.0	+/-20.0	U	20.0	P	11/07/2024	18:37	LB133344
	Nickel	40.0	+/-40.0	U	40.0	P	11/07/2024	18:37	LB133344
	Potassium	2000	+/-2000	U	2000	P	11/07/2024	18:37	LB133344
	Selenium	20.0	+/-20.0	U	20.0	P	11/07/2024	18:37	LB133344
	Silver	10.0	+/-10.0	U	10.0	P	11/07/2024	18:37	LB133344
	Sodium	2000	+/-2000	U	2000	P	11/07/2024	18:37	LB133344
	Thallium	40.0	+/-40.0	U	40.0	P	11/07/2024	18:37	LB133344
	Vanadium	40.0	+/-40.0	U	40.0	P	11/07/2024	18:37	LB133344
	Zinc	40.0	+/-40.0	U	40.0	P	11/07/2024	18:37	LB133344
CCB06	Aluminum	100	+/-100	U	100	P	11/07/2024	19:12	LB133344
	Antimony	50.0	+/-50.0	U	50.0	P	11/07/2024	19:12	LB133344
	Arsenic	20.0	+/-20.0	U	20.0	P	11/07/2024	19:12	LB133344
	Barium	100	+/-100	U	100	P	11/07/2024	19:12	LB133344
	Beryllium	6.00	+/-6.00	U	6.00	P	11/07/2024	19:12	LB133344
	Cadmium	6.00	+/-6.00	U	6.00	P	11/07/2024	19:12	LB133344
	Calcium	2000	+/-2000	U	2000	P	11/07/2024	19:12	LB133344

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Union Paving & Construction Company **SDG No.:** P4663

Contract: UNIO02 **Lab Code:** CHEM **Case No.:** P4663 **SAS No.:** P4663

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	11/07/2024	19:12	LB133344
	Cobalt	30.0	+/-30.0	U	30.0	P	11/07/2024	19:12	LB133344
	Copper	20.0	+/-20.0	U	20.0	P	11/07/2024	19:12	LB133344
	Iron	100	+/-100	U	100	P	11/07/2024	19:12	LB133344
	Lead	12.0	+/-12.0	U	12.0	P	11/07/2024	19:12	LB133344
	Magnesium	2000	+/-2000	U	2000	P	11/07/2024	19:12	LB133344
	Manganese	20.0	+/-20.0	U	20.0	P	11/07/2024	19:12	LB133344
	Nickel	40.0	+/-40.0	U	40.0	P	11/07/2024	19:12	LB133344
	Potassium	2000	+/-2000	U	2000	P	11/07/2024	19:12	LB133344
	Selenium	20.0	+/-20.0	U	20.0	P	11/07/2024	19:12	LB133344
	Silver	10.0	+/-10.0	U	10.0	P	11/07/2024	19:12	LB133344
	Sodium	2000	+/-2000	U	2000	P	11/07/2024	19:12	LB133344
	Thallium	40.0	+/-40.0	U	40.0	P	11/07/2024	19:12	LB133344
	Vanadium	40.0	+/-40.0	U	40.0	P	11/07/2024	19:12	LB133344
	Zinc	40.0	+/-40.0	U	40.0	P	11/07/2024	19:12	LB133344
CCB07	Aluminum	100	+/-100	U	100	P	11/07/2024	20:02	LB133344
	Antimony	50.0	+/-50.0	U	50.0	P	11/07/2024	20:02	LB133344
	Arsenic	20.0	+/-20.0	U	20.0	P	11/07/2024	20:02	LB133344
	Barium	100	+/-100	U	100	P	11/07/2024	20:02	LB133344
	Beryllium	6.00	+/-6.00	U	6.00	P	11/07/2024	20:02	LB133344
	Cadmium	6.00	+/-6.00	U	6.00	P	11/07/2024	20:02	LB133344
	Calcium	2000	+/-2000	U	2000	P	11/07/2024	20:02	LB133344
	Chromium	10.0	+/-10.0	U	10.0	P	11/07/2024	20:02	LB133344
	Cobalt	30.0	+/-30.0	U	30.0	P	11/07/2024	20:02	LB133344
	Copper	20.0	+/-20.0	U	20.0	P	11/07/2024	20:02	LB133344
	Iron	100	+/-100	U	100	P	11/07/2024	20:02	LB133344
	Lead	12.0	+/-12.0	U	12.0	P	11/07/2024	20:02	LB133344
	Magnesium	2000	+/-2000	U	2000	P	11/07/2024	20:02	LB133344
	Manganese	20.0	+/-20.0	U	20.0	P	11/07/2024	20:02	LB133344
	Nickel	40.0	+/-40.0	U	40.0	P	11/07/2024	20:02	LB133344
	Potassium	2000	+/-2000	U	2000	P	11/07/2024	20:02	LB133344
	Selenium	20.0	+/-20.0	U	20.0	P	11/07/2024	20:02	LB133344
	Silver	10.0	+/-10.0	U	10.0	P	11/07/2024	20:02	LB133344
	Sodium	2000	+/-2000	U	2000	P	11/07/2024	20:02	LB133344
	Thallium	40.0	+/-40.0	U	40.0	P	11/07/2024	20:02	LB133344
	Vanadium	40.0	+/-40.0	U	40.0	P	11/07/2024	20:02	LB133344
	Zinc	40.0	+/-40.0	U	40.0	P	11/07/2024	20:02	LB133344
CCB08	Aluminum	100	+/-100	U	100	P	11/07/2024	21:02	LB133344
	Antimony	50.0	+/-50.0	U	50.0	P	11/07/2024	21:02	LB133344

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Union Paving & Construction Company **SDG No.:** P4663

Contract: UNIO02 **Lab Code:** CHEM **Case No.:** P4663 **SAS No.:** P4663

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	11/07/2024	21:02	LB133344
	Barium	100	+/-100	U	100	P	11/07/2024	21:02	LB133344
	Beryllium	6.00	+/-6.00	U	6.00	P	11/07/2024	21:02	LB133344
	Cadmium	6.00	+/-6.00	U	6.00	P	11/07/2024	21:02	LB133344
	Calcium	2000	+/-2000	U	2000	P	11/07/2024	21:02	LB133344
	Chromium	10.0	+/-10.0	U	10.0	P	11/07/2024	21:02	LB133344
	Cobalt	30.0	+/-30.0	U	30.0	P	11/07/2024	21:02	LB133344
	Copper	20.0	+/-20.0	U	20.0	P	11/07/2024	21:02	LB133344
	Iron	100	+/-100	U	100	P	11/07/2024	21:02	LB133344
	Lead	12.0	+/-12.0	U	12.0	P	11/07/2024	21:02	LB133344
	Magnesium	2000	+/-2000	U	2000	P	11/07/2024	21:02	LB133344
	Manganese	20.0	+/-20.0	U	20.0	P	11/07/2024	21:02	LB133344
	Nickel	40.0	+/-40.0	U	40.0	P	11/07/2024	21:02	LB133344
	Potassium	2000	+/-2000	U	2000	P	11/07/2024	21:02	LB133344
	Selenium	20.0	+/-20.0	U	20.0	P	11/07/2024	21:02	LB133344
	Silver	10.0	+/-10.0	U	10.0	P	11/07/2024	21:02	LB133344
	Sodium	2000	+/-2000	U	2000	P	11/07/2024	21:02	LB133344
	Thallium	40.0	+/-40.0	U	40.0	P	11/07/2024	21:02	LB133344
	Vanadium	40.0	+/-40.0	U	40.0	P	11/07/2024	21:02	LB133344
	Zinc	40.0	+/-40.0	U	40.0	P	11/07/2024	21:02	LB133344
CCB09	Aluminum	100	+/-100	U	100	P	11/07/2024	21:55	LB133344
	Antimony	50.0	+/-50.0	U	50.0	P	11/07/2024	21:55	LB133344
	Arsenic	20.0	+/-20.0	U	20.0	P	11/07/2024	21:55	LB133344
	Barium	100	+/-100	U	100	P	11/07/2024	21:55	LB133344
	Beryllium	6.00	+/-6.00	U	6.00	P	11/07/2024	21:55	LB133344
	Cadmium	6.00	+/-6.00	U	6.00	P	11/07/2024	21:55	LB133344
	Calcium	2000	+/-2000	U	2000	P	11/07/2024	21:55	LB133344
	Chromium	10.0	+/-10.0	U	10.0	P	11/07/2024	21:55	LB133344
	Cobalt	30.0	+/-30.0	U	30.0	P	11/07/2024	21:55	LB133344
	Copper	20.0	+/-20.0	U	20.0	P	11/07/2024	21:55	LB133344
	Iron	100	+/-100	U	100	P	11/07/2024	21:55	LB133344
	Lead	12.0	+/-12.0	U	12.0	P	11/07/2024	21:55	LB133344
	Magnesium	2000	+/-2000	U	2000	P	11/07/2024	21:55	LB133344
	Manganese	20.0	+/-20.0	U	20.0	P	11/07/2024	21:55	LB133344
	Nickel	40.0	+/-40.0	U	40.0	P	11/07/2024	21:55	LB133344
	Potassium	2000	+/-2000	U	2000	P	11/07/2024	21:55	LB133344
	Selenium	20.0	+/-20.0	U	20.0	P	11/07/2024	21:55	LB133344
	Silver	10.0	+/-10.0	U	10.0	P	11/07/2024	21:55	LB133344
	Sodium	2000	+/-2000	U	2000	P	11/07/2024	21:55	LB133344

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Union Paving & Construction Company **SDG No.:** P4663

Contract: UNIO02 **Lab Code:** CHEM **Case No.:** P4663 **SAS No.:** P4663

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	11/07/2024	21:55	LB133344
	Vanadium	40.0	+/-40.0	U	40.0	P	11/07/2024	21:55	LB133344
	Zinc	40.0	+/-40.0	U	40.0	P	11/07/2024	21:55	LB133344
CCB10	Aluminum	100	+/-100	U	100	P	11/07/2024	22:56	LB133344
	Antimony	50.0	+/-50.0	U	50.0	P	11/07/2024	22:56	LB133344
	Arsenic	20.0	+/-20.0	U	20.0	P	11/07/2024	22:56	LB133344
	Barium	100	+/-100	U	100	P	11/07/2024	22:56	LB133344
	Beryllium	6.00	+/-6.00	U	6.00	P	11/07/2024	22:56	LB133344
	Cadmium	6.00	+/-6.00	U	6.00	P	11/07/2024	22:56	LB133344
	Calcium	2000	+/-2000	U	2000	P	11/07/2024	22:56	LB133344
	Chromium	10.0	+/-10.0	U	10.0	P	11/07/2024	22:56	LB133344
	Cobalt	30.0	+/-30.0	U	30.0	P	11/07/2024	22:56	LB133344
	Copper	20.0	+/-20.0	U	20.0	P	11/07/2024	22:56	LB133344
	Iron	100	+/-100	U	100	P	11/07/2024	22:56	LB133344
	Lead	12.0	+/-12.0	U	12.0	P	11/07/2024	22:56	LB133344
	Magnesium	2000	+/-2000	U	2000	P	11/07/2024	22:56	LB133344
	Manganese	20.0	+/-20.0	U	20.0	P	11/07/2024	22:56	LB133344
	Nickel	40.0	+/-40.0	U	40.0	P	11/07/2024	22:56	LB133344
	Potassium	2000	+/-2000	U	2000	P	11/07/2024	22:56	LB133344
	Selenium	20.0	+/-20.0	U	20.0	P	11/07/2024	22:56	LB133344
	Silver	10.0	+/-10.0	U	10.0	P	11/07/2024	22:56	LB133344
	Sodium	2000	+/-2000	U	2000	P	11/07/2024	22:56	LB133344
	Thallium	40.0	+/-40.0	U	40.0	P	11/07/2024	22:56	LB133344
	Vanadium	40.0	+/-40.0	U	40.0	P	11/07/2024	22:56	LB133344
	Zinc	40.0	+/-40.0	U	40.0	P	11/07/2024	22:56	LB133344
CCB11	Aluminum	100	+/-100	U	100	P	11/07/2024	23:47	LB133344
	Antimony	50.0	+/-50.0	U	50.0	P	11/07/2024	23:47	LB133344
	Arsenic	20.0	+/-20.0	U	20.0	P	11/07/2024	23:47	LB133344
	Barium	100	+/-100	U	100	P	11/07/2024	23:47	LB133344
	Beryllium	6.00	+/-6.00	U	6.00	P	11/07/2024	23:47	LB133344
	Cadmium	6.00	+/-6.00	U	6.00	P	11/07/2024	23:47	LB133344
	Calcium	2000	+/-2000	U	2000	P	11/07/2024	23:47	LB133344
	Chromium	10.0	+/-10.0	U	10.0	P	11/07/2024	23:47	LB133344
	Cobalt	30.0	+/-30.0	U	30.0	P	11/07/2024	23:47	LB133344
	Copper	20.0	+/-20.0	U	20.0	P	11/07/2024	23:47	LB133344
	Iron	100	+/-100	U	100	P	11/07/2024	23:47	LB133344
	Lead	12.0	+/-12.0	U	12.0	P	11/07/2024	23:47	LB133344
	Magnesium	2000	+/-2000	U	2000	P	11/07/2024	23:47	LB133344
	Manganese	20.0	+/-20.0	U	20.0	P	11/07/2024	23:47	LB133344

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Union Paving & Construction Company **SDG No.:** P4663

Contract: UNIO02 **Lab Code:** CHEM **Case No.:** P4663 **SAS No.:** P4663

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB11	Nickel	40.0	+/-40.0	U	40.0	P	11/07/2024	23:47	LB133344
	Potassium	2000	+/-2000	U	2000	P	11/07/2024	23:47	LB133344
	Selenium	20.0	+/-20.0	U	20.0	P	11/07/2024	23:47	LB133344
	Silver	10.0	+/-10.0	U	10.0	P	11/07/2024	23:47	LB133344
	Sodium	2000	+/-2000	U	2000	P	11/07/2024	23:47	LB133344
	Thallium	40.0	+/-40.0	U	40.0	P	11/07/2024	23:47	LB133344
	Vanadium	40.0	+/-40.0	U	40.0	P	11/07/2024	23:47	LB133344
	Zinc	40.0	+/-40.0	U	40.0	P	11/07/2024	23:47	LB133344
CCB12	Aluminum	100	+/-100	U	100	P	11/08/2024	00:43	LB133344
	Antimony	50.0	+/-50.0	U	50.0	P	11/08/2024	00:43	LB133344
	Arsenic	20.0	+/-20.0	U	20.0	P	11/08/2024	00:43	LB133344
	Barium	100	+/-100	U	100	P	11/08/2024	00:43	LB133344
	Beryllium	6.00	+/-6.00	U	6.00	P	11/08/2024	00:43	LB133344
	Cadmium	6.00	+/-6.00	U	6.00	P	11/08/2024	00:43	LB133344
	Calcium	2000	+/-2000	U	2000	P	11/08/2024	00:43	LB133344
	Chromium	10.0	+/-10.0	U	10.0	P	11/08/2024	00:43	LB133344
	Cobalt	30.0	+/-30.0	U	30.0	P	11/08/2024	00:43	LB133344
	Copper	20.0	+/-20.0	U	20.0	P	11/08/2024	00:43	LB133344
	Iron	100	+/-100	U	100	P	11/08/2024	00:43	LB133344
	Lead	12.0	+/-12.0	U	12.0	P	11/08/2024	00:43	LB133344
	Magnesium	2000	+/-2000	U	2000	P	11/08/2024	00:43	LB133344
	Manganese	20.0	+/-20.0	U	20.0	P	11/08/2024	00:43	LB133344
	Nickel	40.0	+/-40.0	U	40.0	P	11/08/2024	00:43	LB133344
	Potassium	2000	+/-2000	U	2000	P	11/08/2024	00:43	LB133344
	Selenium	20.0	+/-20.0	U	20.0	P	11/08/2024	00:43	LB133344
	Silver	10.0	+/-10.0	U	10.0	P	11/08/2024	00:43	LB133344
	Sodium	2000	+/-2000	U	2000	P	11/08/2024	00:43	LB133344
	Thallium	40.0	+/-40.0	U	40.0	P	11/08/2024	00:43	LB133344
	Vanadium	40.0	+/-40.0	U	40.0	P	11/08/2024	00:43	LB133344
	Zinc	40.0	+/-40.0	U	40.0	P	11/08/2024	00:43	LB133344
CCB13	Aluminum	100	+/-100	U	100	P	11/08/2024	01:01	LB133344
	Antimony	50.0	+/-50.0	U	50.0	P	11/08/2024	01:01	LB133344
	Arsenic	20.0	+/-20.0	U	20.0	P	11/08/2024	01:01	LB133344
	Barium	100	+/-100	U	100	P	11/08/2024	01:01	LB133344
	Beryllium	6.00	+/-6.00	U	6.00	P	11/08/2024	01:01	LB133344
	Cadmium	6.00	+/-6.00	U	6.00	P	11/08/2024	01:01	LB133344
	Calcium	2000	+/-2000	U	2000	P	11/08/2024	01:01	LB133344
	Chromium	10.0	+/-10.0	U	10.0	P	11/08/2024	01:01	LB133344
	Cobalt	30.0	+/-30.0	U	30.0	P	11/08/2024	01:01	LB133344

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Union Paving & Construction Company **SDG No.:** P4663

Contract: UNIO02 **Lab Code:** CHEM **Case No.:** P4663 **SAS No.:** P4663

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB13	Copper	20.0	+/-20.0	U	20.0	P	11/08/2024	01:01	LB133344
	Iron	100	+/-100	U	100	P	11/08/2024	01:01	LB133344
	Lead	12.0	+/-12.0	U	12.0	P	11/08/2024	01:01	LB133344
	Magnesium	2000	+/-2000	U	2000	P	11/08/2024	01:01	LB133344
	Manganese	20.0	+/-20.0	U	20.0	P	11/08/2024	01:01	LB133344
	Nickel	40.0	+/-40.0	U	40.0	P	11/08/2024	01:01	LB133344
	Potassium	2000	+/-2000	U	2000	P	11/08/2024	01:01	LB133344
	Selenium	20.0	+/-20.0	U	20.0	P	11/08/2024	01:01	LB133344
	Silver	10.0	+/-10.0	U	10.0	P	11/08/2024	01:01	LB133344
	Sodium	2000	+/-2000	U	2000	P	11/08/2024	01:01	LB133344
	Thallium	40.0	+/-40.0	U	40.0	P	11/08/2024	01:01	LB133344
	Vanadium	40.0	+/-40.0	U	40.0	P	11/08/2024	01:01	LB133344
	Zinc	40.0	+/-40.0	U	40.0	P	11/08/2024	01:01	LB133344

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Metals
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PREPARATION BLANK SUMMARY

Client: Union Paving & Construction Company **SDG No.:** P4663

Instrument: CV1

Sample ID	Analyte	Result (mg/Kg)	Acceptance Limit	Conc Qual	CRQL mg/Kg	M	Analysis Date	Analysis Time	Run
PB164668BL		**SOLID**		**Batch Number:**	**PB164668**		**Prep Date:**	**11/04/2024**	
	Mercury	0.013	<0.013	U	0.013	CV	11/04/2024	14:32	LB133275

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PREPARATION BLANK SUMMARY

Client: Union Paving & Construction Company **SDG No.:** P4663

Instrument: P4

Sample ID	Analyte	Result (mg/Kg)	Acceptance Limit	Conc Qual	CRQL mg/Kg	M	Analysis Date	Analysis Time	Run
PB164634BL		**SOLID**		**Batch Number:**	**PB164634**		**Prep Date:**	**11/03/2024**	
	Aluminum	4.76	<4.76	U	4.76	P	11/08/2024	00:08	LB133344
	Antimony	2.38	<2.38	U	2.38	P	11/08/2024	00:08	LB133344
	Arsenic	0.95	<0.95	U	0.95	P	11/08/2024	00:08	LB133344
	Barium	4.76	<4.76	U	4.76	P	11/08/2024	00:08	LB133344
	Beryllium	0.29	<0.29	U	0.29	P	11/08/2024	00:08	LB133344
	Cadmium	0.29	<0.29	U	0.29	P	11/08/2024	00:08	LB133344
	Calcium	95.2	<95.2	U	95.2	P	11/08/2024	00:08	LB133344
	Chromium	0.48	<0.48	U	0.48	P	11/08/2024	00:08	LB133344
	Cobalt	1.43	<1.43	U	1.43	P	11/08/2024	00:08	LB133344
	Copper	0.95	<0.95	U	0.95	P	11/08/2024	00:08	LB133344
	Iron	4.76	<4.76	U	4.76	P	11/08/2024	00:08	LB133344
	Lead	0.57	<0.57	U	0.57	P	11/08/2024	00:08	LB133344
	Magnesium	95.2	<95.2	U	95.2	P	11/08/2024	00:08	LB133344
	Manganese	0.95	<0.95	U	0.95	P	11/08/2024	00:08	LB133344
	Nickel	1.90	<1.90	U	1.90	P	11/08/2024	00:08	LB133344
	Potassium	95.2	<95.2	U	95.2	P	11/08/2024	00:08	LB133344
	Selenium	0.95	<0.95	U	0.95	P	11/08/2024	00:08	LB133344
	Silver	0.48	<0.48	U	0.48	P	11/08/2024	00:08	LB133344
	Sodium	95.2	<95.2	U	95.2	P	11/08/2024	00:08	LB133344
	Thallium	1.90	<1.90	U	1.90	P	11/08/2024	00:08	LB133344
	Vanadium	1.90	<1.90	U	1.90	P	11/08/2024	00:08	LB133344
	Zinc	1.90	<1.90	U	1.90	P	11/08/2024	00:08	LB133344

METAL CALIBRATION DATA

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Union Paving & Construction Company **SDG No.:** P4663

Contract: UNIO02 **Lab Code:** CHEM **Case No.:** P4663 **SAS No.:** P4663

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
ICV68	Mercury	4.12	4.0	103	90 - 110	CV	11/04/2024	14:11	LB133275

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Union Paving & Construction Company **SDG No.:** P4663

Contract: UNIO02 **Lab Code:** CHEM **Case No.:** P4663 **SAS No.:** P4663

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
CCV22	Mercury	5.29	5.0	106	90 - 110	CV	11/04/2024	14:18	LB133275
CCV23	Mercury	5.34	5.0	107	90 - 110	CV	11/04/2024	14:48	LB133275
CCV24	Mercury	5.37	5.0	107	90 - 110	CV	11/04/2024	15:18	LB133275
CCV25	Mercury	5.41	5.0	108	90 - 110	CV	11/04/2024	15:43	LB133275

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Union Paving & Construction Company **SDG No.:** P4663

Contract: UNIO02 **Lab Code:** CHEM **Case No.:** P4663 **SAS No.:** P4663

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	2490	2500	99	90 - 110	P	11/04/2024	17:28	LB133296
	Antimony	999	1000	100	90 - 110	P	11/04/2024	17:28	LB133296
	Arsenic	948	1000	95	90 - 110	P	11/04/2024	17:28	LB133296
	Barium	494	520	95	90 - 110	P	11/04/2024	17:28	LB133296
	Beryllium	533	510	105	90 - 110	P	11/04/2024	17:28	LB133296
	Cadmium	485	510	95	90 - 110	P	11/04/2024	17:28	LB133296
	Calcium	9920	10000	99	90 - 110	P	11/04/2024	17:28	LB133296
	Chromium	545	520	105	90 - 110	P	11/04/2024	17:28	LB133296
	Cobalt	513	520	99	90 - 110	P	11/04/2024	17:28	LB133296
	Copper	528	510	104	90 - 110	P	11/04/2024	17:28	LB133296
	Iron	9840	10000	98	90 - 110	P	11/04/2024	17:28	LB133296
	Lead	979	1000	98	90 - 110	P	11/04/2024	17:28	LB133296
	Magnesium	6070	6000	101	90 - 110	P	11/04/2024	17:28	LB133296
	Manganese	510	520	98	90 - 110	P	11/04/2024	17:28	LB133296
	Nickel	515	530	97	90 - 110	P	11/04/2024	17:28	LB133296
	Potassium	9580	9900	97	90 - 110	P	11/04/2024	17:28	LB133296
	Selenium	989	1000	99	90 - 110	P	11/04/2024	17:28	LB133296
	Silver	260	250	104	90 - 110	P	11/04/2024	17:28	LB133296
	Sodium	9470	10000	95	90 - 110	P	11/04/2024	17:28	LB133296
	Thallium	1090	1000	109	90 - 110	P	11/04/2024	17:28	LB133296
	Vanadium	493	500	99	90 - 110	P	11/04/2024	17:28	LB133296
	Zinc	1010	1000	102	90 - 110	P	11/04/2024	17:28	LB133296

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Union Paving & Construction Company **SDG No.:** P4663

Contract: UNIO02 **Lab Code:** CHEM **Case No.:** P4663 **SAS No.:** P4663

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	110	100	110	80 - 120	P	11/04/2024	17:37	LB133296
	Antimony	50.7	50.0	101	80 - 120	P	11/04/2024	17:37	LB133296
	Arsenic	19.2	20.0	96	80 - 120	P	11/04/2024	17:37	LB133296
	Barium	106	100	106	80 - 120	P	11/04/2024	17:37	LB133296
	Beryllium	6.34	6.0	106	80 - 120	P	11/04/2024	17:37	LB133296
	Cadmium	6.64	6.0	111	80 - 120	P	11/04/2024	17:37	LB133296
	Calcium	2050	2000	102	80 - 120	P	11/04/2024	17:37	LB133296
	Chromium	10.9	10.0	109	80 - 120	P	11/04/2024	17:37	LB133296
	Cobalt	30.9	30.0	103	80 - 120	P	11/04/2024	17:37	LB133296
	Copper	23.3	20.0	116	80 - 120	P	11/04/2024	17:37	LB133296
	Iron	102	100	102	80 - 120	P	11/04/2024	17:37	LB133296
	Lead	11.8	12.0	98	80 - 120	P	11/04/2024	17:37	LB133296
	Magnesium	2120	2000	106	80 - 120	P	11/04/2024	17:37	LB133296
	Manganese	20.9	20.0	105	80 - 120	P	11/04/2024	17:37	LB133296
	Nickel	41.1	40.0	103	80 - 120	P	11/04/2024	17:37	LB133296
	Potassium	1880	2000	94	80 - 120	P	11/04/2024	17:37	LB133296
	Selenium	17.6	20.0	88	80 - 120	P	11/04/2024	17:37	LB133296
	Silver	10.4	10.0	104	80 - 120	P	11/04/2024	17:37	LB133296
	Sodium	1950	2000	98	80 - 120	P	11/04/2024	17:37	LB133296
	Thallium	40.7	40.0	102	80 - 120	P	11/04/2024	17:37	LB133296
	Vanadium	40.3	40.0	101	80 - 120	P	11/04/2024	17:37	LB133296
	Zinc	44.0	40.0	110	80 - 120	P	11/04/2024	17:37	LB133296

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Union Paving & Construction Company **SDG No.:** P4663

Contract: UNIO02 **Lab Code:** CHEM **Case No.:** P4663 **SAS No.:** P4663

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	9930	10000	99	90 - 110	P	11/04/2024	18:11	LB133296
	Antimony	4940	5000	99	90 - 110	P	11/04/2024	18:11	LB133296
	Arsenic	5050	5000	101	90 - 110	P	11/04/2024	18:11	LB133296
	Barium	9740	10000	97	90 - 110	P	11/04/2024	18:11	LB133296
	Beryllium	265	250	106	90 - 110	P	11/04/2024	18:11	LB133296
	Cadmium	2560	2500	102	90 - 110	P	11/04/2024	18:11	LB133296
	Calcium	25000	25000	100	90 - 110	P	11/04/2024	18:11	LB133296
	Chromium	1050	1000	105	90 - 110	P	11/04/2024	18:11	LB133296
	Cobalt	2520	2500	101	90 - 110	P	11/04/2024	18:11	LB133296
	Copper	1260	1250	101	90 - 110	P	11/04/2024	18:11	LB133296
	Iron	4950	5000	99	90 - 110	P	11/04/2024	18:11	LB133296
	Lead	5120	5000	102	90 - 110	P	11/04/2024	18:11	LB133296
	Magnesium	25700	25000	103	90 - 110	P	11/04/2024	18:11	LB133296
	Manganese	2490	2500	100	90 - 110	P	11/04/2024	18:11	LB133296
	Nickel	2520	2500	101	90 - 110	P	11/04/2024	18:11	LB133296
	Potassium	24600	25000	98	90 - 110	P	11/04/2024	18:11	LB133296
	Selenium	5110	5000	102	90 - 110	P	11/04/2024	18:11	LB133296
	Silver	1280	1250	102	90 - 110	P	11/04/2024	18:11	LB133296
	Sodium	24800	25000	99	90 - 110	P	11/04/2024	18:11	LB133296
	Thallium	4720	5000	94	90 - 110	P	11/04/2024	18:11	LB133296
	Vanadium	2480	2500	99	90 - 110	P	11/04/2024	18:11	LB133296
	Zinc	2540	2500	102	90 - 110	P	11/04/2024	18:11	LB133296
CCV02	Aluminum	10400	10000	104	90 - 110	P	11/04/2024	19:02	LB133296
	Antimony	5220	5000	104	90 - 110	P	11/04/2024	19:02	LB133296
	Arsenic	5310	5000	106	90 - 110	P	11/04/2024	19:02	LB133296
	Barium	10200	10000	102	90 - 110	P	11/04/2024	19:02	LB133296
	Beryllium	267	250	107	90 - 110	P	11/04/2024	19:02	LB133296
	Cadmium	2670	2500	107	90 - 110	P	11/04/2024	19:02	LB133296
	Calcium	26000	25000	104	90 - 110	P	11/04/2024	19:02	LB133296
	Chromium	1060	1000	106	90 - 110	P	11/04/2024	19:02	LB133296
	Cobalt	2630	2500	105	90 - 110	P	11/04/2024	19:02	LB133296
	Copper	1320	1250	105	90 - 110	P	11/04/2024	19:02	LB133296
	Iron	5200	5000	104	90 - 110	P	11/04/2024	19:02	LB133296
	Lead	5320	5000	106	90 - 110	P	11/04/2024	19:02	LB133296

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Union Paving & Construction Company **SDG No.:** P4663

Contract: UNIO02 **Lab Code:** CHEM **Case No.:** P4663 **SAS No.:** P4663

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	26200	25000	105	90 - 110	P	11/04/2024	19:02	LB133296
	Manganese	2520	2500	101	90 - 110	P	11/04/2024	19:02	LB133296
	Nickel	2640	2500	106	90 - 110	P	11/04/2024	19:02	LB133296
	Potassium	26500	25000	106	90 - 110	P	11/04/2024	19:02	LB133296
	Selenium	5390	5000	108	90 - 110	P	11/04/2024	19:02	LB133296
	Silver	1330	1250	107	90 - 110	P	11/04/2024	19:02	LB133296
	Sodium	26400	25000	106	90 - 110	P	11/04/2024	19:02	LB133296
	Thallium	4920	5000	98	90 - 110	P	11/04/2024	19:02	LB133296
	Vanadium	2560	2500	102	90 - 110	P	11/04/2024	19:02	LB133296
	Zinc	2650	2500	106	90 - 110	P	11/04/2024	19:02	LB133296
CCV03	Aluminum	10300	10000	102	90 - 110	P	11/04/2024	19:46	LB133296
	Antimony	5190	5000	104	90 - 110	P	11/04/2024	19:46	LB133296
	Arsenic	5310	5000	106	90 - 110	P	11/04/2024	19:46	LB133296
	Barium	10100	10000	101	90 - 110	P	11/04/2024	19:46	LB133296
	Beryllium	266	250	106	90 - 110	P	11/04/2024	19:46	LB133296
	Cadmium	2660	2500	106	90 - 110	P	11/04/2024	19:46	LB133296
	Calcium	25500	25000	102	90 - 110	P	11/04/2024	19:46	LB133296
	Chromium	1090	1000	109	90 - 110	P	11/04/2024	19:46	LB133296
	Cobalt	2620	2500	105	90 - 110	P	11/04/2024	19:46	LB133296
	Copper	1310	1250	105	90 - 110	P	11/04/2024	19:46	LB133296
	Iron	5040	5000	101	90 - 110	P	11/04/2024	19:46	LB133296
	Lead	5320	5000	106	90 - 110	P	11/04/2024	19:46	LB133296
	Magnesium	25900	25000	104	90 - 110	P	11/04/2024	19:46	LB133296
	Manganese	2480	2500	99	90 - 110	P	11/04/2024	19:46	LB133296
	Nickel	2630	2500	105	90 - 110	P	11/04/2024	19:46	LB133296
	Potassium	26500	25000	106	90 - 110	P	11/04/2024	19:46	LB133296
	Selenium	5390	5000	108	90 - 110	P	11/04/2024	19:46	LB133296
	Silver	1320	1250	106	90 - 110	P	11/04/2024	19:46	LB133296
	Sodium	22800	25000	91	90 - 110	P	11/04/2024	19:46	LB133296
	Thallium	4830	5000	97	90 - 110	P	11/04/2024	19:46	LB133296
	Vanadium	2520	2500	101	90 - 110	P	11/04/2024	19:46	LB133296
	Zinc	2620	2500	105	90 - 110	P	11/04/2024	19:46	LB133296
CCV04	Aluminum	10100	10000	101	90 - 110	P	11/04/2024	21:07	LB133296
	Antimony	5260	5000	105	90 - 110	P	11/04/2024	21:07	LB133296

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Union Paving & Construction Company **SDG No.:** P4663

Contract: UNIO02 **Lab Code:** CHEM **Case No.:** P4663 **SAS No.:** P4663

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	5210	5000	104	90 - 110	P	11/04/2024	21:07	LB133296
	Barium	10200	10000	102	90 - 110	P	11/04/2024	21:07	LB133296
	Beryllium	248	250	99	90 - 110	P	11/04/2024	21:07	LB133296
	Cadmium	2530	2500	101	90 - 110	P	11/04/2024	21:07	LB133296
	Calcium	24900	25000	99	90 - 110	P	11/04/2024	21:07	LB133296
	Chromium	1050	1000	105	90 - 110	P	11/04/2024	21:07	LB133296
	Cobalt	2540	2500	102	90 - 110	P	11/04/2024	21:07	LB133296
	Copper	1290	1250	103	90 - 110	P	11/04/2024	21:07	LB133296
	Iron	5270	5000	105	90 - 110	P	11/04/2024	21:07	LB133296
	Lead	5020	5000	100	90 - 110	P	11/04/2024	21:07	LB133296
	Magnesium	24800	25000	99	90 - 110	P	11/04/2024	21:07	LB133296
	Manganese	2470	2500	99	90 - 110	P	11/04/2024	21:07	LB133296
	Nickel	2540	2500	102	90 - 110	P	11/04/2024	21:07	LB133296
	Potassium	25700	25000	103	90 - 110	P	11/04/2024	21:07	LB133296
	Selenium	5300	5000	106	90 - 110	P	11/04/2024	21:07	LB133296
	Silver	1310	1250	105	90 - 110	P	11/04/2024	21:07	LB133296
	Sodium	26800	25000	107	90 - 110	P	11/04/2024	21:07	LB133296
	Thallium	4740	5000	95	90 - 110	P	11/04/2024	21:07	LB133296
	Vanadium	2510	2500	100	90 - 110	P	11/04/2024	21:07	LB133296
	Zinc	2610	2500	104	90 - 110	P	11/04/2024	21:07	LB133296
CCV05	Aluminum	9940	10000	99	90 - 110	P	11/04/2024	21:47	LB133296
	Antimony	5110	5000	102	90 - 110	P	11/04/2024	21:47	LB133296
	Arsenic	5110	5000	102	90 - 110	P	11/04/2024	21:47	LB133296
	Barium	10100	10000	101	90 - 110	P	11/04/2024	21:47	LB133296
	Beryllium	254	250	102	90 - 110	P	11/04/2024	21:47	LB133296
	Cadmium	2520	2500	101	90 - 110	P	11/04/2024	21:47	LB133296
	Calcium	24600	25000	99	90 - 110	P	11/04/2024	21:47	LB133296
	Chromium	1040	1000	104	90 - 110	P	11/04/2024	21:47	LB133296
	Cobalt	2520	2500	101	90 - 110	P	11/04/2024	21:47	LB133296
	Copper	1270	1250	101	90 - 110	P	11/04/2024	21:47	LB133296
	Iron	5030	5000	101	90 - 110	P	11/04/2024	21:47	LB133296
	Lead	5020	5000	100	90 - 110	P	11/04/2024	21:47	LB133296
	Magnesium	24800	25000	99	90 - 110	P	11/04/2024	21:47	LB133296
	Manganese	2470	2500	99	90 - 110	P	11/04/2024	21:47	LB133296

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Union Paving & Construction Company **SDG No.:** P4663

Contract: UNIO02 **Lab Code:** CHEM **Case No.:** P4663 **SAS No.:** P4663

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	2510	2500	101	90 - 110	P	11/04/2024	21:47	LB133296
	Potassium	26600	25000	106	90 - 110	P	11/04/2024	21:47	LB133296
	Selenium	5180	5000	104	90 - 110	P	11/04/2024	21:47	LB133296
	Silver	1290	1250	103	90 - 110	P	11/04/2024	21:47	LB133296
	Sodium	25500	25000	102	90 - 110	P	11/04/2024	21:47	LB133296
	Thallium	4730	5000	95	90 - 110	P	11/04/2024	21:47	LB133296
	Vanadium	2470	2500	99	90 - 110	P	11/04/2024	21:47	LB133296
	Zinc	2570	2500	103	90 - 110	P	11/04/2024	21:47	LB133296

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Union Paving & Construction Company **SDG No.:** P4663

Contract: UNIO02 **Lab Code:** CHEM **Case No.:** P4663 **SAS No.:** P4663

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV01	Aluminum	2550	2500	102	90 - 110	P	11/06/2024	17:34	LB133323
	Antimony	981	1000	98	90 - 110	P	11/06/2024	17:34	LB133323
	Arsenic	1010	1000	101	90 - 110	P	11/06/2024	17:34	LB133323
	Barium	522	520	100	90 - 110	P	11/06/2024	17:34	LB133323
	Beryllium	520	510	102	90 - 110	P	11/06/2024	17:34	LB133323
	Cadmium	500	510	98	90 - 110	P	11/06/2024	17:34	LB133323
	Calcium	10200	10000	102	90 - 110	P	11/06/2024	17:34	LB133323
	Chromium	529	520	102	90 - 110	P	11/06/2024	17:34	LB133323
	Cobalt	506	520	97	90 - 110	P	11/06/2024	17:34	LB133323
	Copper	516	510	101	90 - 110	P	11/06/2024	17:34	LB133323
	Iron	10100	10000	101	90 - 110	P	11/06/2024	17:34	LB133323
	Lead	1000	1000	100	90 - 110	P	11/06/2024	17:34	LB133323
	Magnesium	5990	6000	100	90 - 110	P	11/06/2024	17:34	LB133323
	Manganese	526	520	101	90 - 110	P	11/06/2024	17:34	LB133323
	Nickel	509	530	96	90 - 110	P	11/06/2024	17:34	LB133323
	Potassium	9880	9900	100	90 - 110	P	11/06/2024	17:34	LB133323
	Selenium	1010	1000	101	90 - 110	P	11/06/2024	17:34	LB133323
	Silver	258	250	103	90 - 110	P	11/06/2024	17:34	LB133323
	Sodium	9370	10000	94	90 - 110	P	11/06/2024	17:34	LB133323
	Thallium	1050	1000	105	90 - 110	P	11/06/2024	17:34	LB133323
	Vanadium	503	500	101	90 - 110	P	11/06/2024	17:34	LB133323
	Zinc	1050	1000	104	90 - 110	P	11/06/2024	17:34	LB133323

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Union Paving & Construction Company **SDG No.:** P4663

Contract: UNIO02 **Lab Code:** CHEM **Case No.:** P4663 **SAS No.:** P4663

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
LLICV01	Aluminum	103	100	103	80 - 120	P	11/06/2024	17:38	LB133323
	Antimony	48.9	50.0	98	80 - 120	P	11/06/2024	17:38	LB133323
	Arsenic	19.2	20.0	96	80 - 120	P	11/06/2024	17:38	LB133323
	Barium	104	100	104	80 - 120	P	11/06/2024	17:38	LB133323
	Beryllium	6.08	6.0	101	80 - 120	P	11/06/2024	17:38	LB133323
	Cadmium	6.52	6.0	109	80 - 120	P	11/06/2024	17:38	LB133323
	Calcium	2060	2000	103	80 - 120	P	11/06/2024	17:38	LB133323
	Chromium	9.84	10.0	98	80 - 120	P	11/06/2024	17:38	LB133323
	Cobalt	29.1	30.0	97	80 - 120	P	11/06/2024	17:38	LB133323
	Copper	21.7	20.0	108	80 - 120	P	11/06/2024	17:38	LB133323
	Iron	95.1	100	95	80 - 120	P	11/06/2024	17:38	LB133323
	Lead	12.2	12.0	102	80 - 120	P	11/06/2024	17:38	LB133323
	Magnesium	2030	2000	102	80 - 120	P	11/06/2024	17:38	LB133323
	Manganese	21.2	20.0	106	80 - 120	P	11/06/2024	17:38	LB133323
	Nickel	40.6	40.0	102	80 - 120	P	11/06/2024	17:38	LB133323
	Potassium	1990	2000	99	80 - 120	P	11/06/2024	17:38	LB133323
	Selenium	20.1	20.0	100	80 - 120	P	11/06/2024	17:38	LB133323
	Silver	10.1	10.0	101	80 - 120	P	11/06/2024	17:38	LB133323
	Sodium	1680	2000	84	80 - 120	P	11/06/2024	17:38	LB133323
	Thallium	41.1	40.0	103	80 - 120	P	11/06/2024	17:38	LB133323
	Vanadium	40.9	40.0	102	80 - 120	P	11/06/2024	17:38	LB133323
	Zinc	44.7	40.0	112	80 - 120	P	11/06/2024	17:38	LB133323

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Union Paving & Construction Company **SDG No.:** P4663

Contract: UNIO02 **Lab Code:** CHEM **Case No.:** P4663 **SAS No.:** P4663

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	10100	10000	101	90 - 110	P	11/06/2024	18:23	LB133323
	Antimony	5020	5000	100	90 - 110	P	11/06/2024	18:23	LB133323
	Arsenic	5050	5000	101	90 - 110	P	11/06/2024	18:23	LB133323
	Barium	10300	10000	103	90 - 110	P	11/06/2024	18:23	LB133323
	Beryllium	255	250	102	90 - 110	P	11/06/2024	18:23	LB133323
	Cadmium	2500	2500	100	90 - 110	P	11/06/2024	18:23	LB133323
	Calcium	25300	25000	101	90 - 110	P	11/06/2024	18:23	LB133323
	Chromium	1010	1000	101	90 - 110	P	11/06/2024	18:23	LB133323
	Cobalt	2490	2500	100	90 - 110	P	11/06/2024	18:23	LB133323
	Copper	1260	1250	101	90 - 110	P	11/06/2024	18:23	LB133323
	Iron	4970	5000	99	90 - 110	P	11/06/2024	18:23	LB133323
	Lead	5010	5000	100	90 - 110	P	11/06/2024	18:23	LB133323
	Magnesium	25100	25000	100	90 - 110	P	11/06/2024	18:23	LB133323
	Manganese	2540	2500	102	90 - 110	P	11/06/2024	18:23	LB133323
	Nickel	2500	2500	100	90 - 110	P	11/06/2024	18:23	LB133323
	Potassium	24900	25000	100	90 - 110	P	11/06/2024	18:23	LB133323
	Selenium	5060	5000	101	90 - 110	P	11/06/2024	18:23	LB133323
	Silver	1250	1250	100	90 - 110	P	11/06/2024	18:23	LB133323
	Sodium	25800	25000	103	90 - 110	P	11/06/2024	18:23	LB133323
	Thallium	5280	5000	106	90 - 110	P	11/06/2024	18:23	LB133323
	Vanadium	2530	2500	101	90 - 110	P	11/06/2024	18:23	LB133323
	Zinc	2470	2500	99	90 - 110	P	11/06/2024	18:23	LB133323
CCV02	Aluminum	10000	10000	100	90 - 110	P	11/06/2024	18:39	LB133323
	Antimony	4960	5000	99	90 - 110	P	11/06/2024	18:39	LB133323
	Arsenic	4940	5000	99	90 - 110	P	11/06/2024	18:39	LB133323
	Barium	10100	10000	101	90 - 110	P	11/06/2024	18:39	LB133323
	Beryllium	256	250	102	90 - 110	P	11/06/2024	18:39	LB133323
	Cadmium	2480	2500	99	90 - 110	P	11/06/2024	18:39	LB133323
	Calcium	25300	25000	101	90 - 110	P	11/06/2024	18:39	LB133323
	Chromium	993	1000	99	90 - 110	P	11/06/2024	18:39	LB133323
	Cobalt	2480	2500	99	90 - 110	P	11/06/2024	18:39	LB133323
	Copper	1240	1250	99	90 - 110	P	11/06/2024	18:39	LB133323
	Iron	4880	5000	98	90 - 110	P	11/06/2024	18:39	LB133323
	Lead	4970	5000	99	90 - 110	P	11/06/2024	18:39	LB133323

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Union Paving & Construction Company **SDG No.:** P4663

Contract: UNIO02 **Lab Code:** CHEM **Case No.:** P4663 **SAS No.:** P4663

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	25100	25000	100	90 - 110	P	11/06/2024	18:39	LB133323
	Manganese	2540	2500	102	90 - 110	P	11/06/2024	18:39	LB133323
	Nickel	2480	2500	99	90 - 110	P	11/06/2024	18:39	LB133323
	Potassium	24200	25000	97	90 - 110	P	11/06/2024	18:39	LB133323
	Selenium	4960	5000	99	90 - 110	P	11/06/2024	18:39	LB133323
	Silver	1230	1250	99	90 - 110	P	11/06/2024	18:39	LB133323
	Sodium	24700	25000	99	90 - 110	P	11/06/2024	18:39	LB133323
	Thallium	5160	5000	103	90 - 110	P	11/06/2024	18:39	LB133323
	Vanadium	2530	2500	101	90 - 110	P	11/06/2024	18:39	LB133323
	Zinc	2430	2500	97	90 - 110	P	11/06/2024	18:39	LB133323
CCV03	Aluminum	9900	10000	99	90 - 110	P	11/06/2024	19:32	LB133323
	Antimony	4880	5000	98	90 - 110	P	11/06/2024	19:32	LB133323
	Arsenic	4870	5000	98	90 - 110	P	11/06/2024	19:32	LB133323
	Barium	10100	10000	101	90 - 110	P	11/06/2024	19:32	LB133323
	Beryllium	254	250	102	90 - 110	P	11/06/2024	19:32	LB133323
	Cadmium	2450	2500	98	90 - 110	P	11/06/2024	19:32	LB133323
	Calcium	25100	25000	100	90 - 110	P	11/06/2024	19:32	LB133323
	Chromium	1010	1000	100	90 - 110	P	11/06/2024	19:32	LB133323
	Cobalt	2450	2500	98	90 - 110	P	11/06/2024	19:32	LB133323
	Copper	1220	1250	98	90 - 110	P	11/06/2024	19:32	LB133323
	Iron	5050	5000	101	90 - 110	P	11/06/2024	19:32	LB133323
	Lead	4910	5000	98	90 - 110	P	11/06/2024	19:32	LB133323
	Magnesium	24700	25000	99	90 - 110	P	11/06/2024	19:32	LB133323
	Manganese	2510	2500	100	90 - 110	P	11/06/2024	19:32	LB133323
	Nickel	2450	2500	98	90 - 110	P	11/06/2024	19:32	LB133323
	Potassium	25200	25000	101	90 - 110	P	11/06/2024	19:32	LB133323
	Selenium	4880	5000	98	90 - 110	P	11/06/2024	19:32	LB133323
	Silver	1260	1250	101	90 - 110	P	11/06/2024	19:32	LB133323
	Sodium	26100	25000	104	90 - 110	P	11/06/2024	19:32	LB133323
	Thallium	5030	5000	101	90 - 110	P	11/06/2024	19:32	LB133323
	Vanadium	2490	2500	100	90 - 110	P	11/06/2024	19:32	LB133323
	Zinc	2440	2500	98	90 - 110	P	11/06/2024	19:32	LB133323
CCV04	Aluminum	10000	10000	100	90 - 110	P	11/06/2024	20:22	LB133323
	Antimony	5040	5000	101	90 - 110	P	11/06/2024	20:22	LB133323

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Union Paving & Construction Company **SDG No.:** P4663

Contract: UNIO02 **Lab Code:** CHEM **Case No.:** P4663 **SAS No.:** P4663

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	5070	5000	101	90 - 110	P	11/06/2024	20:22	LB133323
	Barium	10200	10000	102	90 - 110	P	11/06/2024	20:22	LB133323
	Beryllium	257	250	103	90 - 110	P	11/06/2024	20:22	LB133323
	Cadmium	2540	2500	102	90 - 110	P	11/06/2024	20:22	LB133323
	Calcium	25200	25000	101	90 - 110	P	11/06/2024	20:22	LB133323
	Chromium	1010	1000	100	90 - 110	P	11/06/2024	20:22	LB133323
	Cobalt	2530	2500	101	90 - 110	P	11/06/2024	20:22	LB133323
	Copper	1270	1250	102	90 - 110	P	11/06/2024	20:22	LB133323
	Iron	4920	5000	98	90 - 110	P	11/06/2024	20:22	LB133323
	Lead	5080	5000	102	90 - 110	P	11/06/2024	20:22	LB133323
	Magnesium	24900	25000	100	90 - 110	P	11/06/2024	20:22	LB133323
	Manganese	2520	2500	101	90 - 110	P	11/06/2024	20:22	LB133323
	Nickel	2540	2500	101	90 - 110	P	11/06/2024	20:22	LB133323
	Potassium	24500	25000	98	90 - 110	P	11/06/2024	20:22	LB133323
	Selenium	5060	5000	101	90 - 110	P	11/06/2024	20:22	LB133323
	Silver	1250	1250	100	90 - 110	P	11/06/2024	20:22	LB133323
	Sodium	25500	25000	102	90 - 110	P	11/06/2024	20:22	LB133323
	Thallium	5290	5000	106	90 - 110	P	11/06/2024	20:22	LB133323
	Vanadium	2510	2500	100	90 - 110	P	11/06/2024	20:22	LB133323
	Zinc	2450	2500	98	90 - 110	P	11/06/2024	20:22	LB133323
CCV05	Aluminum	10300	10000	103	90 - 110	P	11/06/2024	21:13	LB133323
	Antimony	5050	5000	101	90 - 110	P	11/06/2024	21:13	LB133323
	Arsenic	5070	5000	102	90 - 110	P	11/06/2024	21:13	LB133323
	Barium	10500	10000	105	90 - 110	P	11/06/2024	21:13	LB133323
	Beryllium	265	250	106	90 - 110	P	11/06/2024	21:13	LB133323
	Cadmium	2570	2500	103	90 - 110	P	11/06/2024	21:13	LB133323
	Calcium	26100	25000	104	90 - 110	P	11/06/2024	21:13	LB133323
	Chromium	1030	1000	103	90 - 110	P	11/06/2024	21:13	LB133323
	Cobalt	2560	2500	102	90 - 110	P	11/06/2024	21:13	LB133323
	Copper	1270	1250	102	90 - 110	P	11/06/2024	21:13	LB133323
	Iron	5050	5000	101	90 - 110	P	11/06/2024	21:13	LB133323
	Lead	5120	5000	102	90 - 110	P	11/06/2024	21:13	LB133323
	Magnesium	25800	25000	103	90 - 110	P	11/06/2024	21:13	LB133323
	Manganese	2620	2500	105	90 - 110	P	11/06/2024	21:13	LB133323

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Union Paving & Construction Company **SDG No.:** P4663

Contract: UNIO02 **Lab Code:** CHEM **Case No.:** P4663 **SAS No.:** P4663

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	2560	2500	102	90 - 110	P	11/06/2024	21:13	LB133323
	Potassium	25200	25000	101	90 - 110	P	11/06/2024	21:13	LB133323
	Selenium	5060	5000	101	90 - 110	P	11/06/2024	21:13	LB133323
	Silver	1280	1250	102	90 - 110	P	11/06/2024	21:13	LB133323
	Sodium	26400	25000	106	90 - 110	P	11/06/2024	21:13	LB133323
	Thallium	5270	5000	105	90 - 110	P	11/06/2024	21:13	LB133323
	Vanadium	2590	2500	104	90 - 110	P	11/06/2024	21:13	LB133323
	Zinc	2500	2500	100	90 - 110	P	11/06/2024	21:13	LB133323
CCV06	Aluminum	10100	10000	101	90 - 110	P	11/06/2024	22:11	LB133323
	Antimony	4990	5000	100	90 - 110	P	11/06/2024	22:11	LB133323
	Arsenic	4990	5000	100	90 - 110	P	11/06/2024	22:11	LB133323
	Barium	10500	10000	104	90 - 110	P	11/06/2024	22:11	LB133323
	Beryllium	262	250	105	90 - 110	P	11/06/2024	22:11	LB133323
	Cadmium	2510	2500	100	90 - 110	P	11/06/2024	22:11	LB133323
	Calcium	25600	25000	102	90 - 110	P	11/06/2024	22:11	LB133323
	Chromium	1010	1000	101	90 - 110	P	11/06/2024	22:11	LB133323
	Cobalt	2510	2500	100	90 - 110	P	11/06/2024	22:11	LB133323
	Copper	1250	1250	100	90 - 110	P	11/06/2024	22:11	LB133323
	Iron	4880	5000	98	90 - 110	P	11/06/2024	22:11	LB133323
	Lead	5030	5000	100	90 - 110	P	11/06/2024	22:11	LB133323
	Magnesium	25000	25000	100	90 - 110	P	11/06/2024	22:11	LB133323
	Manganese	2530	2500	101	90 - 110	P	11/06/2024	22:11	LB133323
	Nickel	2510	2500	100	90 - 110	P	11/06/2024	22:11	LB133323
	Potassium	24700	25000	99	90 - 110	P	11/06/2024	22:11	LB133323
	Selenium	4990	5000	100	90 - 110	P	11/06/2024	22:11	LB133323
	Silver	1250	1250	100	90 - 110	P	11/06/2024	22:11	LB133323
	Sodium	25900	25000	104	90 - 110	P	11/06/2024	22:11	LB133323
	Thallium	5210	5000	104	90 - 110	P	11/06/2024	22:11	LB133323
	Vanadium	2520	2500	101	90 - 110	P	11/06/2024	22:11	LB133323
	Zinc	2270	2500	91	90 - 110	P	11/06/2024	22:11	LB133323
CCV07	Aluminum	10200	10000	102	90 - 110	P	11/06/2024	23:03	LB133323
	Antimony	5020	5000	100	90 - 110	P	11/06/2024	23:03	LB133323
	Arsenic	5020	5000	100	90 - 110	P	11/06/2024	23:03	LB133323
	Barium	10600	10000	106	90 - 110	P	11/06/2024	23:03	LB133323

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Union Paving & Construction Company **SDG No.:** P4663

Contract: UNIO02 **Lab Code:** CHEM **Case No.:** P4663 **SAS No.:** P4663

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	274	250	110	90 - 110	P	11/06/2024	23:03	LB133323
	Cadmium	2550	2500	102	90 - 110	P	11/06/2024	23:03	LB133323
	Calcium	25900	25000	104	90 - 110	P	11/06/2024	23:03	LB133323
	Chromium	1040	1000	104	90 - 110	P	11/06/2024	23:03	LB133323
	Cobalt	2540	2500	102	90 - 110	P	11/06/2024	23:03	LB133323
	Copper	1260	1250	101	90 - 110	P	11/06/2024	23:03	LB133323
	Iron	5090	5000	102	90 - 110	P	11/06/2024	23:03	LB133323
	Lead	5100	5000	102	90 - 110	P	11/06/2024	23:03	LB133323
	Magnesium	25600	25000	102	90 - 110	P	11/06/2024	23:03	LB133323
	Manganese	2600	2500	104	90 - 110	P	11/06/2024	23:03	LB133323
	Nickel	2550	2500	102	90 - 110	P	11/06/2024	23:03	LB133323
	Potassium	26000	25000	104	90 - 110	P	11/06/2024	23:03	LB133323
	Selenium	5020	5000	100	90 - 110	P	11/06/2024	23:03	LB133323
	Silver	1300	1250	104	90 - 110	P	11/06/2024	23:03	LB133323
	Sodium	27100	25000	108	90 - 110	P	11/06/2024	23:03	LB133323
	Thallium	5240	5000	105	90 - 110	P	11/06/2024	23:03	LB133323
	Vanadium	2560	2500	103	90 - 110	P	11/06/2024	23:03	LB133323
	Zinc	2340	2500	94	90 - 110	P	11/06/2024	23:03	LB133323
CCV08	Aluminum	10000	10000	100	90 - 110	P	11/06/2024	23:59	LB133323
	Antimony	4940	5000	99	90 - 110	P	11/06/2024	23:59	LB133323
	Arsenic	4970	5000	99	90 - 110	P	11/06/2024	23:59	LB133323
	Barium	10400	10000	104	90 - 110	P	11/06/2024	23:59	LB133323
	Beryllium	270	250	108	90 - 110	P	11/06/2024	23:59	LB133323
	Cadmium	2520	2500	101	90 - 110	P	11/06/2024	23:59	LB133323
	Calcium	25500	25000	102	90 - 110	P	11/06/2024	23:59	LB133323
	Chromium	1020	1000	102	90 - 110	P	11/06/2024	23:59	LB133323
	Cobalt	2510	2500	100	90 - 110	P	11/06/2024	23:59	LB133323
	Copper	1240	1250	100	90 - 110	P	11/06/2024	23:59	LB133323
	Iron	4890	5000	98	90 - 110	P	11/06/2024	23:59	LB133323
	Lead	5040	5000	101	90 - 110	P	11/06/2024	23:59	LB133323
	Magnesium	25300	25000	101	90 - 110	P	11/06/2024	23:59	LB133323
	Manganese	2570	2500	103	90 - 110	P	11/06/2024	23:59	LB133323
	Nickel	2510	2500	101	90 - 110	P	11/06/2024	23:59	LB133323
	Potassium	24900	25000	100	90 - 110	P	11/06/2024	23:59	LB133323

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Union Paving & Construction Company **SDG No.:** P4663

Contract: UNIO02 **Lab Code:** CHEM **Case No.:** P4663 **SAS No.:** P4663

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	4950	5000	99	90 - 110	P	11/06/2024	23:59	LB133323
	Silver	1260	1250	101	90 - 110	P	11/06/2024	23:59	LB133323
	Sodium	25900	25000	104	90 - 110	P	11/06/2024	23:59	LB133323
	Thallium	5090	5000	102	90 - 110	P	11/06/2024	23:59	LB133323
	Vanadium	2530	2500	101	90 - 110	P	11/06/2024	23:59	LB133323
	Zinc	2400	2500	96	90 - 110	P	11/06/2024	23:59	LB133323
CCV09	Aluminum	9840	10000	98	90 - 110	P	11/07/2024	00:53	LB133323
	Antimony	4890	5000	98	90 - 110	P	11/07/2024	00:53	LB133323
	Arsenic	4880	5000	98	90 - 110	P	11/07/2024	00:53	LB133323
	Barium	10100	10000	101	90 - 110	P	11/07/2024	00:53	LB133323
	Beryllium	260	250	104	90 - 110	P	11/07/2024	00:53	LB133323
	Cadmium	2450	2500	98	90 - 110	P	11/07/2024	00:53	LB133323
	Calcium	24800	25000	99	90 - 110	P	11/07/2024	00:53	LB133323
	Chromium	997	1000	100	90 - 110	P	11/07/2024	00:53	LB133323
	Cobalt	2440	2500	98	90 - 110	P	11/07/2024	00:53	LB133323
	Copper	1220	1250	98	90 - 110	P	11/07/2024	00:53	LB133323
	Iron	4930	5000	99	90 - 110	P	11/07/2024	00:53	LB133323
	Lead	4900	5000	98	90 - 110	P	11/07/2024	00:53	LB133323
	Magnesium	24600	25000	98	90 - 110	P	11/07/2024	00:53	LB133323
	Manganese	2510	2500	100	90 - 110	P	11/07/2024	00:53	LB133323
	Nickel	2450	2500	98	90 - 110	P	11/07/2024	00:53	LB133323
	Potassium	25100	25000	100	90 - 110	P	11/07/2024	00:53	LB133323
	Selenium	4890	5000	98	90 - 110	P	11/07/2024	00:53	LB133323
	Silver	1250	1250	100	90 - 110	P	11/07/2024	00:53	LB133323
	Sodium	26100	25000	104	90 - 110	P	11/07/2024	00:53	LB133323
	Thallium	4980	5000	100	90 - 110	P	11/07/2024	00:53	LB133323
	Vanadium	2500	2500	100	90 - 110	P	11/07/2024	00:53	LB133323
	Zinc	2370	2500	95	90 - 110	P	11/07/2024	00:53	LB133323
CCV10	Aluminum	10100	10000	101	90 - 110	P	11/07/2024	01:49	LB133323
	Antimony	4760	5000	95	90 - 110	P	11/07/2024	01:49	LB133323
	Arsenic	4860	5000	97	90 - 110	P	11/07/2024	01:49	LB133323
	Barium	10100	10000	101	90 - 110	P	11/07/2024	01:49	LB133323
	Beryllium	245	250	98	90 - 110	P	11/07/2024	01:49	LB133323
	Cadmium	2660	2500	106	90 - 110	P	11/07/2024	01:49	LB133323

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Union Paving & Construction Company **SDG No.:** P4663

Contract: UNIO02 **Lab Code:** CHEM **Case No.:** P4663 **SAS No.:** P4663

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	27400	25000	109	90 - 110	P	11/07/2024	01:49	LB133323
	Chromium	1080	1000	108	90 - 110	P	11/07/2024	01:49	LB133323
	Cobalt	2610	2500	104	90 - 110	P	11/07/2024	01:49	LB133323
	Copper	1220	1250	98	90 - 110	P	11/07/2024	01:49	LB133323
	Iron	4960	5000	99	90 - 110	P	11/07/2024	01:49	LB133323
	Lead	5270	5000	105	90 - 110	P	11/07/2024	01:49	LB133323
	Magnesium	23100	25000	92	90 - 110	P	11/07/2024	01:49	LB133323
	Manganese	2710	2500	108	90 - 110	P	11/07/2024	01:49	LB133323
	Nickel	2620	2500	105	90 - 110	P	11/07/2024	01:49	LB133323
	Potassium	23100	25000	92	90 - 110	P	11/07/2024	01:49	LB133323
	Selenium	4770	5000	95	90 - 110	P	11/07/2024	01:49	LB133323
	Silver	1300	1250	104	90 - 110	P	11/07/2024	01:49	LB133323
	Sodium	23600	25000	94	90 - 110	P	11/07/2024	01:49	LB133323
	Thallium	5290	5000	106	90 - 110	P	11/07/2024	01:49	LB133323
	Vanadium	2640	2500	106	90 - 110	P	11/07/2024	01:49	LB133323
	Zinc	2540	2500	102	90 - 110	P	11/07/2024	01:49	LB133323

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Union Paving & Construction Company **SDG No.:** P4663

Contract: UNIO02 **Lab Code:** CHEM **Case No.:** P4663 **SAS No.:** P4663

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	2590	2500	104	90 - 110	P	11/07/2024	13:49	LB133344
	Antimony	1010	1000	101	90 - 110	P	11/07/2024	13:49	LB133344
	Arsenic	1030	1000	103	90 - 110	P	11/07/2024	13:49	LB133344
	Barium	521	520	100	90 - 110	P	11/07/2024	13:49	LB133344
	Beryllium	515	510	101	90 - 110	P	11/07/2024	13:49	LB133344
	Cadmium	509	510	100	90 - 110	P	11/07/2024	13:49	LB133344
	Calcium	10200	10000	102	90 - 110	P	11/07/2024	13:49	LB133344
	Chromium	531	520	102	90 - 110	P	11/07/2024	13:49	LB133344
	Cobalt	516	520	99	90 - 110	P	11/07/2024	13:49	LB133344
	Copper	531	510	104	90 - 110	P	11/07/2024	13:49	LB133344
	Iron	9990	10000	100	90 - 110	P	11/07/2024	13:49	LB133344
	Lead	1020	1000	102	90 - 110	P	11/07/2024	13:49	LB133344
	Magnesium	6010	6000	100	90 - 110	P	11/07/2024	13:49	LB133344
	Manganese	526	520	101	90 - 110	P	11/07/2024	13:49	LB133344
	Nickel	518	530	98	90 - 110	P	11/07/2024	13:49	LB133344
	Potassium	9890	9900	100	90 - 110	P	11/07/2024	13:49	LB133344
	Selenium	1040	1000	104	90 - 110	P	11/07/2024	13:49	LB133344
	Silver	256	250	102	90 - 110	P	11/07/2024	13:49	LB133344
	Sodium	9440	10000	94	90 - 110	P	11/07/2024	13:49	LB133344
	Thallium	1100	1000	110	90 - 110	P	11/07/2024	13:49	LB133344
	Vanadium	507	500	101	90 - 110	P	11/07/2024	13:49	LB133344
	Zinc	1050	1000	105	90 - 110	P	11/07/2024	13:49	LB133344

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Union Paving & Construction Company **SDG No.:** P4663

Contract: UNIO02 **Lab Code:** CHEM **Case No.:** P4663 **SAS No.:** P4663

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
LLICV01	Aluminum	103	100	103	80 - 120	P	11/07/2024	14:23	LB133344
	Antimony	50.8	50.0	102	80 - 120	P	11/07/2024	14:23	LB133344
	Arsenic	18.0	20.0	90	80 - 120	P	11/07/2024	14:23	LB133344
	Barium	100	100	100	80 - 120	P	11/07/2024	14:23	LB133344
	Beryllium	5.93	6.0	99	80 - 120	P	11/07/2024	14:23	LB133344
	Cadmium	6.52	6.0	109	80 - 120	P	11/07/2024	14:23	LB133344
	Calcium	2010	2000	100	80 - 120	P	11/07/2024	14:23	LB133344
	Chromium	9.52	10.0	95	80 - 120	P	11/07/2024	14:23	LB133344
	Cobalt	29.4	30.0	98	80 - 120	P	11/07/2024	14:23	LB133344
	Copper	22.7	20.0	114	80 - 120	P	11/07/2024	14:23	LB133344
	Iron	96.8	100	97	80 - 120	P	11/07/2024	14:23	LB133344
	Lead	11.4	12.0	95	80 - 120	P	11/07/2024	14:23	LB133344
	Magnesium	2020	2000	101	80 - 120	P	11/07/2024	14:23	LB133344
	Manganese	20.2	20.0	101	80 - 120	P	11/07/2024	14:23	LB133344
	Nickel	38.5	40.0	96	80 - 120	P	11/07/2024	14:23	LB133344
	Potassium	2010	2000	101	80 - 120	P	11/07/2024	14:23	LB133344
	Selenium	20.8	20.0	104	80 - 120	P	11/07/2024	14:23	LB133344
	Silver	10.8	10.0	108	80 - 120	P	11/07/2024	14:23	LB133344
	Sodium	1680	2000	84	80 - 120	P	11/07/2024	14:23	LB133344
	Thallium	43.4	40.0	108	80 - 120	P	11/07/2024	14:23	LB133344
	Vanadium	40.8	40.0	102	80 - 120	P	11/07/2024	14:23	LB133344
	Zinc	42.0	40.0	105	80 - 120	P	11/07/2024	14:23	LB133344

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Union Paving & Construction Company **SDG No.:** P4663

Contract: UNIO02 **Lab Code:** CHEM **Case No.:** P4663 **SAS No.:** P4663

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	10000	10000	100	90 - 110	P	11/07/2024	15:01	LB133344
	Antimony	5120	5000	102	90 - 110	P	11/07/2024	15:01	LB133344
	Arsenic	5040	5000	101	90 - 110	P	11/07/2024	15:01	LB133344
	Barium	9710	10000	97	90 - 110	P	11/07/2024	15:01	LB133344
	Beryllium	239	250	96	90 - 110	P	11/07/2024	15:01	LB133344
	Cadmium	2450	2500	98	90 - 110	P	11/07/2024	15:01	LB133344
	Calcium	24000	25000	96	90 - 110	P	11/07/2024	15:01	LB133344
	Chromium	992	1000	99	90 - 110	P	11/07/2024	15:01	LB133344
	Cobalt	2450	2500	98	90 - 110	P	11/07/2024	15:01	LB133344
	Copper	1270	1250	102	90 - 110	P	11/07/2024	15:01	LB133344
	Iron	4870	5000	97	90 - 110	P	11/07/2024	15:01	LB133344
	Lead	4920	5000	98	90 - 110	P	11/07/2024	15:01	LB133344
	Magnesium	24000	25000	96	90 - 110	P	11/07/2024	15:01	LB133344
	Manganese	2370	2500	95	90 - 110	P	11/07/2024	15:01	LB133344
	Nickel	2450	2500	98	90 - 110	P	11/07/2024	15:01	LB133344
	Potassium	25100	25000	100	90 - 110	P	11/07/2024	15:01	LB133344
	Selenium	5150	5000	103	90 - 110	P	11/07/2024	15:01	LB133344
	Silver	1240	1250	99	90 - 110	P	11/07/2024	15:01	LB133344
	Sodium	25300	25000	101	90 - 110	P	11/07/2024	15:01	LB133344
	Thallium	5140	5000	103	90 - 110	P	11/07/2024	15:01	LB133344
	Vanadium	2450	2500	98	90 - 110	P	11/07/2024	15:01	LB133344
	Zinc	2530	2500	101	90 - 110	P	11/07/2024	15:01	LB133344
CCV02	Aluminum	9620	10000	96	90 - 110	P	11/07/2024	15:53	LB133344
	Antimony	5030	5000	101	90 - 110	P	11/07/2024	15:53	LB133344
	Arsenic	4950	5000	99	90 - 110	P	11/07/2024	15:53	LB133344
	Barium	9390	10000	94	90 - 110	P	11/07/2024	15:53	LB133344
	Beryllium	231	250	92	90 - 110	P	11/07/2024	15:53	LB133344
	Cadmium	2390	2500	96	90 - 110	P	11/07/2024	15:53	LB133344
	Calcium	23100	25000	92	90 - 110	P	11/07/2024	15:53	LB133344
	Chromium	963	1000	96	90 - 110	P	11/07/2024	15:53	LB133344
	Cobalt	2390	2500	96	90 - 110	P	11/07/2024	15:53	LB133344
	Copper	1250	1250	100	90 - 110	P	11/07/2024	15:53	LB133344
	Iron	4810	5000	96	90 - 110	P	11/07/2024	15:53	LB133344
	Lead	4800	5000	96	90 - 110	P	11/07/2024	15:53	LB133344

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Union Paving & Construction Company **SDG No.:** P4663

Contract: UNIO02 **Lab Code:** CHEM **Case No.:** P4663 **SAS No.:** P4663

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	23100	25000	92	90 - 110	P	11/07/2024	15:53	LB133344
	Manganese	2280	2500	91	90 - 110	P	11/07/2024	15:53	LB133344
	Nickel	2390	2500	96	90 - 110	P	11/07/2024	15:53	LB133344
	Potassium	25000	25000	100	90 - 110	P	11/07/2024	15:53	LB133344
	Selenium	5050	5000	101	90 - 110	P	11/07/2024	15:53	LB133344
	Silver	1220	1250	98	90 - 110	P	11/07/2024	15:53	LB133344
	Sodium	25800	25000	103	90 - 110	P	11/07/2024	15:53	LB133344
	Thallium	4850	5000	97	90 - 110	P	11/07/2024	15:53	LB133344
	Vanadium	2370	2500	95	90 - 110	P	11/07/2024	15:53	LB133344
	Zinc	2480	2500	99	90 - 110	P	11/07/2024	15:53	LB133344
CCV03	Aluminum	10100	10000	101	90 - 110	P	11/07/2024	16:45	LB133344
	Antimony	5250	5000	105	90 - 110	P	11/07/2024	16:45	LB133344
	Arsenic	5190	5000	104	90 - 110	P	11/07/2024	16:45	LB133344
	Barium	9850	10000	98	90 - 110	P	11/07/2024	16:45	LB133344
	Beryllium	235	250	94	90 - 110	P	11/07/2024	16:45	LB133344
	Cadmium	2470	2500	99	90 - 110	P	11/07/2024	16:45	LB133344
	Calcium	24000	25000	96	90 - 110	P	11/07/2024	16:45	LB133344
	Chromium	993	1000	99	90 - 110	P	11/07/2024	16:45	LB133344
	Cobalt	2470	2500	99	90 - 110	P	11/07/2024	16:45	LB133344
	Copper	1300	1250	104	90 - 110	P	11/07/2024	16:45	LB133344
	Iron	4970	5000	99	90 - 110	P	11/07/2024	16:45	LB133344
	Lead	4970	5000	99	90 - 110	P	11/07/2024	16:45	LB133344
	Magnesium	23900	25000	96	90 - 110	P	11/07/2024	16:45	LB133344
	Manganese	2370	2500	95	90 - 110	P	11/07/2024	16:45	LB133344
	Nickel	2480	2500	99	90 - 110	P	11/07/2024	16:45	LB133344
	Potassium	25900	25000	103	90 - 110	P	11/07/2024	16:45	LB133344
	Selenium	5320	5000	106	90 - 110	P	11/07/2024	16:45	LB133344
	Silver	1240	1250	100	90 - 110	P	11/07/2024	16:45	LB133344
	Sodium	25500	25000	102	90 - 110	P	11/07/2024	16:45	LB133344
	Thallium	5400	5000	108	90 - 110	P	11/07/2024	16:45	LB133344
	Vanadium	2460	2500	98	90 - 110	P	11/07/2024	16:45	LB133344
	Zinc	2400	2500	96	90 - 110	P	11/07/2024	16:45	LB133344
CCV04	Aluminum	10200	10000	102	90 - 110	P	11/07/2024	17:56	LB133344
	Antimony	5280	5000	106	90 - 110	P	11/07/2024	17:56	LB133344

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Union Paving & Construction Company **SDG No.:** P4663

Contract: UNIO02 **Lab Code:** CHEM **Case No.:** P4663 **SAS No.:** P4663

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	5210	5000	104	90 - 110	P	11/07/2024	17:56	LB133344
	Barium	9810	10000	98	90 - 110	P	11/07/2024	17:56	LB133344
	Beryllium	242	250	97	90 - 110	P	11/07/2024	17:56	LB133344
	Cadmium	2500	2500	100	90 - 110	P	11/07/2024	17:56	LB133344
	Calcium	24200	25000	97	90 - 110	P	11/07/2024	17:56	LB133344
	Chromium	1020	1000	102	90 - 110	P	11/07/2024	17:56	LB133344
	Cobalt	2490	2500	100	90 - 110	P	11/07/2024	17:56	LB133344
	Copper	1300	1250	104	90 - 110	P	11/07/2024	17:56	LB133344
	Iron	4980	5000	100	90 - 110	P	11/07/2024	17:56	LB133344
	Lead	5010	5000	100	90 - 110	P	11/07/2024	17:56	LB133344
	Magnesium	24300	25000	97	90 - 110	P	11/07/2024	17:56	LB133344
	Manganese	2370	2500	95	90 - 110	P	11/07/2024	17:56	LB133344
	Nickel	2490	2500	100	90 - 110	P	11/07/2024	17:56	LB133344
	Potassium	26000	25000	104	90 - 110	P	11/07/2024	17:56	LB133344
	Selenium	5390	5000	108	90 - 110	P	11/07/2024	17:56	LB133344
	Silver	1260	1250	101	90 - 110	P	11/07/2024	17:56	LB133344
	Sodium	25400	25000	102	90 - 110	P	11/07/2024	17:56	LB133344
	Thallium	5070	5000	102	90 - 110	P	11/07/2024	17:56	LB133344
	Vanadium	2490	2500	99	90 - 110	P	11/07/2024	17:56	LB133344
	Zinc	2510	2500	100	90 - 110	P	11/07/2024	17:56	LB133344
CCV05	Aluminum	10000	10000	100	90 - 110	P	11/07/2024	18:32	LB133344
	Antimony	5190	5000	104	90 - 110	P	11/07/2024	18:32	LB133344
	Arsenic	5120	5000	102	90 - 110	P	11/07/2024	18:32	LB133344
	Barium	9790	10000	98	90 - 110	P	11/07/2024	18:32	LB133344
	Beryllium	236	250	94	90 - 110	P	11/07/2024	18:32	LB133344
	Cadmium	2430	2500	97	90 - 110	P	11/07/2024	18:32	LB133344
	Calcium	23800	25000	95	90 - 110	P	11/07/2024	18:32	LB133344
	Chromium	988	1000	99	90 - 110	P	11/07/2024	18:32	LB133344
	Cobalt	2430	2500	97	90 - 110	P	11/07/2024	18:32	LB133344
	Copper	1280	1250	102	90 - 110	P	11/07/2024	18:32	LB133344
	Iron	4910	5000	98	90 - 110	P	11/07/2024	18:32	LB133344
	Lead	4880	5000	98	90 - 110	P	11/07/2024	18:32	LB133344
	Magnesium	23800	25000	95	90 - 110	P	11/07/2024	18:32	LB133344
	Manganese	2350	2500	94	90 - 110	P	11/07/2024	18:32	LB133344

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Union Paving & Construction Company **SDG No.:** P4663

Contract: UNIO02 **Lab Code:** CHEM **Case No.:** P4663 **SAS No.:** P4663

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	2430	2500	97	90 - 110	P	11/07/2024	18:32	LB133344
	Potassium	25800	25000	103	90 - 110	P	11/07/2024	18:32	LB133344
	Selenium	5290	5000	106	90 - 110	P	11/07/2024	18:32	LB133344
	Silver	1240	1250	99	90 - 110	P	11/07/2024	18:32	LB133344
	Sodium	25600	25000	102	90 - 110	P	11/07/2024	18:32	LB133344
	Thallium	5000	5000	100	90 - 110	P	11/07/2024	18:32	LB133344
	Vanadium	2440	2500	98	90 - 110	P	11/07/2024	18:32	LB133344
	Zinc	2500	2500	100	90 - 110	P	11/07/2024	18:32	LB133344
CCV06	Aluminum	9950	10000	100	90 - 110	P	11/07/2024	19:08	LB133344
	Antimony	5160	5000	103	90 - 110	P	11/07/2024	19:08	LB133344
	Arsenic	5110	5000	102	90 - 110	P	11/07/2024	19:08	LB133344
	Barium	9640	10000	96	90 - 110	P	11/07/2024	19:08	LB133344
	Beryllium	238	250	95	90 - 110	P	11/07/2024	19:08	LB133344
	Cadmium	2460	2500	99	90 - 110	P	11/07/2024	19:08	LB133344
	Calcium	23800	25000	95	90 - 110	P	11/07/2024	19:08	LB133344
	Chromium	994	1000	99	90 - 110	P	11/07/2024	19:08	LB133344
	Cobalt	2460	2500	98	90 - 110	P	11/07/2024	19:08	LB133344
	Copper	1270	1250	102	90 - 110	P	11/07/2024	19:08	LB133344
	Iron	4870	5000	97	90 - 110	P	11/07/2024	19:08	LB133344
	Lead	4930	5000	99	90 - 110	P	11/07/2024	19:08	LB133344
	Magnesium	23800	25000	95	90 - 110	P	11/07/2024	19:08	LB133344
	Manganese	2330	2500	93	90 - 110	P	11/07/2024	19:08	LB133344
	Nickel	2460	2500	98	90 - 110	P	11/07/2024	19:08	LB133344
	Potassium	25300	25000	101	90 - 110	P	11/07/2024	19:08	LB133344
	Selenium	5260	5000	105	90 - 110	P	11/07/2024	19:08	LB133344
	Silver	1240	1250	99	90 - 110	P	11/07/2024	19:08	LB133344
	Sodium	25300	25000	101	90 - 110	P	11/07/2024	19:08	LB133344
	Thallium	5060	5000	101	90 - 110	P	11/07/2024	19:08	LB133344
	Vanadium	2430	2500	97	90 - 110	P	11/07/2024	19:08	LB133344
	Zinc	2490	2500	100	90 - 110	P	11/07/2024	19:08	LB133344
CCV07	Aluminum	9840	10000	98	90 - 110	P	11/07/2024	19:58	LB133344
	Antimony	5160	5000	103	90 - 110	P	11/07/2024	19:58	LB133344
	Arsenic	5100	5000	102	90 - 110	P	11/07/2024	19:58	LB133344
	Barium	9400	10000	94	90 - 110	P	11/07/2024	19:58	LB133344

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Union Paving & Construction Company **SDG No.:** P4663

Contract: UNIO02 **Lab Code:** CHEM **Case No.:** P4663 **SAS No.:** P4663

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	232	250	93	90 - 110	P	11/07/2024	19:58	LB133344
	Cadmium	2420	2500	97	90 - 110	P	11/07/2024	19:58	LB133344
	Calcium	23300	25000	93	90 - 110	P	11/07/2024	19:58	LB133344
	Chromium	986	1000	99	90 - 110	P	11/07/2024	19:58	LB133344
	Cobalt	2410	2500	96	90 - 110	P	11/07/2024	19:58	LB133344
	Copper	1270	1250	101	90 - 110	P	11/07/2024	19:58	LB133344
	Iron	4800	5000	96	90 - 110	P	11/07/2024	19:58	LB133344
	Lead	4850	5000	97	90 - 110	P	11/07/2024	19:58	LB133344
	Magnesium	23400	25000	94	90 - 110	P	11/07/2024	19:58	LB133344
	Manganese	2270	2500	91	90 - 110	P	11/07/2024	19:58	LB133344
	Nickel	2410	2500	96	90 - 110	P	11/07/2024	19:58	LB133344
	Potassium	25200	25000	101	90 - 110	P	11/07/2024	19:58	LB133344
	Selenium	5270	5000	105	90 - 110	P	11/07/2024	19:58	LB133344
	Silver	1230	1250	98	90 - 110	P	11/07/2024	19:58	LB133344
	Sodium	24900	25000	100	90 - 110	P	11/07/2024	19:58	LB133344
	Thallium	4910	5000	98	90 - 110	P	11/07/2024	19:58	LB133344
	Vanadium	2400	2500	96	90 - 110	P	11/07/2024	19:58	LB133344
	Zinc	2490	2500	100	90 - 110	P	11/07/2024	19:58	LB133344
CCV08	Aluminum	9850	10000	98	90 - 110	P	11/07/2024	20:58	LB133344
	Antimony	5180	5000	104	90 - 110	P	11/07/2024	20:58	LB133344
	Arsenic	5100	5000	102	90 - 110	P	11/07/2024	20:58	LB133344
	Barium	9480	10000	95	90 - 110	P	11/07/2024	20:58	LB133344
	Beryllium	234	250	94	90 - 110	P	11/07/2024	20:58	LB133344
	Cadmium	2410	2500	96	90 - 110	P	11/07/2024	20:58	LB133344
	Calcium	23200	25000	93	90 - 110	P	11/07/2024	20:58	LB133344
	Chromium	989	1000	99	90 - 110	P	11/07/2024	20:58	LB133344
	Cobalt	2410	2500	96	90 - 110	P	11/07/2024	20:58	LB133344
	Copper	1270	1250	102	90 - 110	P	11/07/2024	20:58	LB133344
	Iron	4890	5000	98	90 - 110	P	11/07/2024	20:58	LB133344
	Lead	4840	5000	97	90 - 110	P	11/07/2024	20:58	LB133344
	Magnesium	23300	25000	93	90 - 110	P	11/07/2024	20:58	LB133344
	Manganese	2280	2500	91	90 - 110	P	11/07/2024	20:58	LB133344
	Nickel	2410	2500	96	90 - 110	P	11/07/2024	20:58	LB133344
	Potassium	25900	25000	104	90 - 110	P	11/07/2024	20:58	LB133344

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Union Paving & Construction Company **SDG No.:** P4663

Contract: UNIO02 **Lab Code:** CHEM **Case No.:** P4663 **SAS No.:** P4663

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	5290	5000	106	90 - 110	P	11/07/2024	20:58	LB133344
	Silver	1250	1250	100	90 - 110	P	11/07/2024	20:58	LB133344
	Sodium	26000	25000	104	90 - 110	P	11/07/2024	20:58	LB133344
	Thallium	4970	5000	99	90 - 110	P	11/07/2024	20:58	LB133344
	Vanadium	2390	2500	96	90 - 110	P	11/07/2024	20:58	LB133344
	Zinc	2530	2500	101	90 - 110	P	11/07/2024	20:58	LB133344
CCV09	Aluminum	9720	10000	97	90 - 110	P	11/07/2024	21:51	LB133344
	Antimony	5100	5000	102	90 - 110	P	11/07/2024	21:51	LB133344
	Arsenic	5030	5000	100	90 - 110	P	11/07/2024	21:51	LB133344
	Barium	9510	10000	95	90 - 110	P	11/07/2024	21:51	LB133344
	Beryllium	231	250	92	90 - 110	P	11/07/2024	21:51	LB133344
	Cadmium	2390	2500	95	90 - 110	P	11/07/2024	21:51	LB133344
	Calcium	23100	25000	92	90 - 110	P	11/07/2024	21:51	LB133344
	Chromium	966	1000	97	90 - 110	P	11/07/2024	21:51	LB133344
	Cobalt	2380	2500	95	90 - 110	P	11/07/2024	21:51	LB133344
	Copper	1250	1250	100	90 - 110	P	11/07/2024	21:51	LB133344
	Iron	4750	5000	95	90 - 110	P	11/07/2024	21:51	LB133344
	Lead	4780	5000	96	90 - 110	P	11/07/2024	21:51	LB133344
	Magnesium	22900	25000	92	90 - 110	P	11/07/2024	21:51	LB133344
	Manganese	2250	2500	90	90 - 110	P	11/07/2024	21:51	LB133344
	Nickel	2380	2500	95	90 - 110	P	11/07/2024	21:51	LB133344
	Potassium	25100	25000	100	90 - 110	P	11/07/2024	21:51	LB133344
	Selenium	5170	5000	103	90 - 110	P	11/07/2024	21:51	LB133344
	Silver	1210	1250	97	90 - 110	P	11/07/2024	21:51	LB133344
	Sodium	25300	25000	101	90 - 110	P	11/07/2024	21:51	LB133344
	Thallium	5380	5000	108	90 - 110	P	11/07/2024	21:51	LB133344
	Vanadium	2360	2500	94	90 - 110	P	11/07/2024	21:51	LB133344
	Zinc	2670	2500	107	90 - 110	P	11/07/2024	21:51	LB133344
CCV10	Aluminum	9650	10000	96	90 - 110	P	11/07/2024	22:52	LB133344
	Antimony	5080	5000	102	90 - 110	P	11/07/2024	22:52	LB133344
	Arsenic	5000	5000	100	90 - 110	P	11/07/2024	22:52	LB133344
	Barium	9460	10000	95	90 - 110	P	11/07/2024	22:52	LB133344
	Beryllium	255	250	102	90 - 110	P	11/07/2024	22:52	LB133344
	Cadmium	2340	2500	94	90 - 110	P	11/07/2024	22:52	LB133344

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Union Paving & Construction Company **SDG No.:** P4663

Contract: UNIO02 **Lab Code:** CHEM **Case No.:** P4663 **SAS No.:** P4663

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	22600	25000	90	90 - 110	P	11/07/2024	22:52	LB133344
	Chromium	963	1000	96	90 - 110	P	11/07/2024	22:52	LB133344
	Cobalt	2340	2500	94	90 - 110	P	11/07/2024	22:52	LB133344
	Copper	1240	1250	99	90 - 110	P	11/07/2024	22:52	LB133344
	Iron	4790	5000	96	90 - 110	P	11/07/2024	22:52	LB133344
	Lead	4710	5000	94	90 - 110	P	11/07/2024	22:52	LB133344
	Magnesium	26500	25000	106	90 - 110	P	11/07/2024	22:52	LB133344
	Manganese	2500	2500	100	90 - 110	P	11/07/2024	22:52	LB133344
	Nickel	2340	2500	94	90 - 110	P	11/07/2024	22:52	LB133344
	Potassium	26100	25000	104	90 - 110	P	11/07/2024	22:52	LB133344
	Selenium	5160	5000	103	90 - 110	P	11/07/2024	22:52	LB133344
	Silver	1220	1250	98	90 - 110	P	11/07/2024	22:52	LB133344
	Sodium	27200	25000	109	90 - 110	P	11/07/2024	22:52	LB133344
	Thallium	5290	5000	106	90 - 110	P	11/07/2024	22:52	LB133344
	Vanadium	2320	2500	93	90 - 110	P	11/07/2024	22:52	LB133344
	Zinc	2400	2500	96	90 - 110	P	11/07/2024	22:52	LB133344
CCV11	Aluminum	9750	10000	98	90 - 110	P	11/07/2024	23:43	LB133344
	Antimony	5100	5000	102	90 - 110	P	11/07/2024	23:43	LB133344
	Arsenic	5020	5000	100	90 - 110	P	11/07/2024	23:43	LB133344
	Barium	9690	10000	97	90 - 110	P	11/07/2024	23:43	LB133344
	Beryllium	234	250	93	90 - 110	P	11/07/2024	23:43	LB133344
	Cadmium	2390	2500	96	90 - 110	P	11/07/2024	23:43	LB133344
	Calcium	23200	25000	93	90 - 110	P	11/07/2024	23:43	LB133344
	Chromium	962	1000	96	90 - 110	P	11/07/2024	23:43	LB133344
	Cobalt	2390	2500	95	90 - 110	P	11/07/2024	23:43	LB133344
	Copper	1250	1250	100	90 - 110	P	11/07/2024	23:43	LB133344
	Iron	4730	5000	94	90 - 110	P	11/07/2024	23:43	LB133344
	Lead	4800	5000	96	90 - 110	P	11/07/2024	23:43	LB133344
	Magnesium	23000	25000	92	90 - 110	P	11/07/2024	23:43	LB133344
	Manganese	2290	2500	92	90 - 110	P	11/07/2024	23:43	LB133344
	Nickel	2390	2500	95	90 - 110	P	11/07/2024	23:43	LB133344
	Potassium	25300	25000	101	90 - 110	P	11/07/2024	23:43	LB133344
	Selenium	5160	5000	103	90 - 110	P	11/07/2024	23:43	LB133344
	Silver	1210	1250	97	90 - 110	P	11/07/2024	23:43	LB133344

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Union Paving & Construction Company **SDG No.:** P4663

Contract: UNIO02 **Lab Code:** CHEM **Case No.:** P4663 **SAS No.:** P4663

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
CCV11	Sodium	26300	25000	105	90 - 110	P	11/07/2024	23:43	LB133344
	Thallium	5350	5000	107	90 - 110	P	11/07/2024	23:43	LB133344
	Vanadium	2370	2500	95	90 - 110	P	11/07/2024	23:43	LB133344
	Zinc	2430	2500	97	90 - 110	P	11/07/2024	23:43	LB133344
CCV12	Aluminum	9840	10000	98	90 - 110	P	11/08/2024	00:39	LB133344
	Antimony	5240	5000	105	90 - 110	P	11/08/2024	00:39	LB133344
	Arsenic	5150	5000	103	90 - 110	P	11/08/2024	00:39	LB133344
	Barium	9830	10000	98	90 - 110	P	11/08/2024	00:39	LB133344
	Beryllium	228	250	91	90 - 110	P	11/08/2024	00:39	LB133344
	Cadmium	2390	2500	96	90 - 110	P	11/08/2024	00:39	LB133344
	Calcium	22900	25000	92	90 - 110	P	11/08/2024	00:39	LB133344
	Chromium	965	1000	96	90 - 110	P	11/08/2024	00:39	LB133344
	Cobalt	2390	2500	96	90 - 110	P	11/08/2024	00:39	LB133344
	Copper	1280	1250	102	90 - 110	P	11/08/2024	00:39	LB133344
	Iron	4790	5000	96	90 - 110	P	11/08/2024	00:39	LB133344
	Lead	4820	5000	96	90 - 110	P	11/08/2024	00:39	LB133344
	Magnesium	22700	25000	91	90 - 110	P	11/08/2024	00:39	LB133344
	Manganese	2260	2500	90	90 - 110	P	11/08/2024	00:39	LB133344
	Nickel	2390	2500	96	90 - 110	P	11/08/2024	00:39	LB133344
	Potassium	26400	25000	106	90 - 110	P	11/08/2024	00:39	LB133344
	Selenium	5340	5000	107	90 - 110	P	11/08/2024	00:39	LB133344
	Silver	1230	1250	98	90 - 110	P	11/08/2024	00:39	LB133344
	Sodium	22700	25000	91	90 - 110	P	11/08/2024	00:39	LB133344
	Thallium	5270	5000	105	90 - 110	P	11/08/2024	00:39	LB133344
	Vanadium	2370	2500	95	90 - 110	P	11/08/2024	00:39	LB133344
	Zinc	2380	2500	95	90 - 110	P	11/08/2024	00:39	LB133344
CCV13	Aluminum	9910	10000	99	90 - 110	P	11/08/2024	00:57	LB133344
	Antimony	5250	5000	105	90 - 110	P	11/08/2024	00:57	LB133344
	Arsenic	5160	5000	103	90 - 110	P	11/08/2024	00:57	LB133344
	Barium	9650	10000	96	90 - 110	P	11/08/2024	00:57	LB133344
	Beryllium	233	250	93	90 - 110	P	11/08/2024	00:57	LB133344
	Cadmium	2420	2500	97	90 - 110	P	11/08/2024	00:57	LB133344
	Calcium	23200	25000	93	90 - 110	P	11/08/2024	00:57	LB133344
	Chromium	980	1000	98	90 - 110	P	11/08/2024	00:57	LB133344

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Union Paving & Construction Company **SDG No.:** P4663

Contract: UNIO02 **Lab Code:** CHEM **Case No.:** P4663 **SAS No.:** P4663

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
CCV13	Cobalt	2420	2500	97	90 - 110	P	11/08/2024	00:57	LB133344
	Copper	1290	1250	103	90 - 110	P	11/08/2024	00:57	LB133344
	Iron	4780	5000	96	90 - 110	P	11/08/2024	00:57	LB133344
	Lead	4870	5000	97	90 - 110	P	11/08/2024	00:57	LB133344
	Magnesium	23100	25000	92	90 - 110	P	11/08/2024	00:57	LB133344
	Manganese	2280	2500	91	90 - 110	P	11/08/2024	00:57	LB133344
	Nickel	2420	2500	97	90 - 110	P	11/08/2024	00:57	LB133344
	Potassium	26000	25000	104	90 - 110	P	11/08/2024	00:57	LB133344
	Selenium	5340	5000	107	90 - 110	P	11/08/2024	00:57	LB133344
	Silver	1230	1250	99	90 - 110	P	11/08/2024	00:57	LB133344
	Sodium	26900	25000	108	90 - 110	P	11/08/2024	00:57	LB133344
	Thallium	5410	5000	108	90 - 110	P	11/08/2024	00:57	LB133344
	Vanadium	2390	2500	96	90 - 110	P	11/08/2024	00:57	LB133344
	Zinc	2470	2500	99	90 - 110	P	11/08/2024	00:57	LB133344

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Metals

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CRDL STANDARD FOR AA & ICP

Client: Union Paving & Construction Company **SDG No.:** P4663

Contract: UNIO02 **Lab Code:** CHEM **Case No.:** P4663 **SAS No.:** P4663

Initial Calibration Source:

Continuing Calibration Source:

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CRA	Mercury	0.21	0.2	105	40 - 160	CV	11/04/2024	14:25	LB133275
CRI01	Aluminum	118	100	118	40 - 160	P	11/04/2024	17:52	LB133296
	Antimony	50.4	50.0	101	40 - 160	P	11/04/2024	17:52	LB133296
	Arsenic	19.6	20.0	98	40 - 160	P	11/04/2024	17:52	LB133296
	Barium	105	100	104	40 - 160	P	11/04/2024	17:52	LB133296
	Beryllium	6.34	6.0	106	40 - 160	P	11/04/2024	17:52	LB133296
	Cadmium	6.64	6.0	111	40 - 160	P	11/04/2024	17:52	LB133296
	Calcium	2040	2000	102	40 - 160	P	11/04/2024	17:52	LB133296
	Chromium	10.7	10.0	107	40 - 160	P	11/04/2024	17:52	LB133296
	Cobalt	30.3	30.0	101	40 - 160	P	11/04/2024	17:52	LB133296
	Copper	22.5	20.0	112	40 - 160	P	11/04/2024	17:52	LB133296
	Iron	97.6	100	98	40 - 160	P	11/04/2024	17:52	LB133296
	Lead	11.7	12.0	98	40 - 160	P	11/04/2024	17:52	LB133296
	Magnesium	2110	2000	105	40 - 160	P	11/04/2024	17:52	LB133296
	Manganese	20.7	20.0	103	40 - 160	P	11/04/2024	17:52	LB133296
	Nickel	40.2	40.0	100	40 - 160	P	11/04/2024	17:52	LB133296
	Potassium	1820	2000	91	40 - 160	P	11/04/2024	17:52	LB133296
	Selenium	18.8	20.0	94	40 - 160	P	11/04/2024	17:52	LB133296
	Silver	10.4	10.0	104	40 - 160	P	11/04/2024	17:52	LB133296
	Sodium	1960	2000	98	40 - 160	P	11/04/2024	17:52	LB133296
	Thallium	39.9	40.0	100	40 - 160	P	11/04/2024	17:52	LB133296
	Vanadium	41.0	40.0	103	40 - 160	P	11/04/2024	17:52	LB133296
	Zinc	43.4	40.0	108	40 - 160	P	11/04/2024	17:52	LB133296
CRI01	Aluminum	101	100	101	40 - 160	P	11/06/2024	18:04	LB133323
	Antimony	49.9	50.0	100	40 - 160	P	11/06/2024	18:04	LB133323
	Arsenic	20.3	20.0	102	40 - 160	P	11/06/2024	18:04	LB133323
	Barium	106	100	106	40 - 160	P	11/06/2024	18:04	LB133323
	Beryllium	6.12	6.0	102	40 - 160	P	11/06/2024	18:04	LB133323
	Cadmium	6.64	6.0	111	40 - 160	P	11/06/2024	18:04	LB133323
	Calcium	2070	2000	104	40 - 160	P	11/06/2024	18:04	LB133323
	Chromium	9.93	10.0	99	40 - 160	P	11/06/2024	18:04	LB133323
	Cobalt	29.6	30.0	99	40 - 160	P	11/06/2024	18:04	LB133323
	Copper	21.9	20.0	109	40 - 160	P	11/06/2024	18:04	LB133323
	Iron	76.9	100	77	40 - 160	P	11/06/2024	18:04	LB133323
	Lead	11.2	12.0	94	40 - 160	P	11/06/2024	18:04	LB133323

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Metals

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CRDL STANDARD FOR AA & ICP

Client: Union Paving & Construction Company **SDG No.:** P4663

Contract: UNIO02 **Lab Code:** CHEM **Case No.:** P4663 **SAS No.:** P4663

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	2070	2000	104	40 - 160	P	11/06/2024	18:04	LB133323
	Manganese	21.2	20.0	106	40 - 160	P	11/06/2024	18:04	LB133323
	Nickel	39.4	40.0	99	40 - 160	P	11/06/2024	18:04	LB133323
	Potassium	1940	2000	97	40 - 160	P	11/06/2024	18:04	LB133323
	Selenium	19.9	20.0	99	40 - 160	P	11/06/2024	18:04	LB133323
	Silver	10.5	10.0	105	40 - 160	P	11/06/2024	18:04	LB133323
	Sodium	1590	2000	80	40 - 160	P	11/06/2024	18:04	LB133323
	Thallium	41.9	40.0	105	40 - 160	P	11/06/2024	18:04	LB133323
	Vanadium	41.8	40.0	104	40 - 160	P	11/06/2024	18:04	LB133323
	Zinc	40.8	40.0	102	40 - 160	P	11/06/2024	18:04	LB133323
CRI01	Aluminum	106	100	106	40 - 160	P	11/07/2024	14:42	LB133344
	Antimony	51.9	50.0	104	40 - 160	P	11/07/2024	14:42	LB133344
	Arsenic	19.9	20.0	99	40 - 160	P	11/07/2024	14:42	LB133344
	Barium	99.8	100	100	40 - 160	P	11/07/2024	14:42	LB133344
	Beryllium	5.88	6.0	98	40 - 160	P	11/07/2024	14:42	LB133344
	Cadmium	6.45	6.0	108	40 - 160	P	11/07/2024	14:42	LB133344
	Calcium	2010	2000	101	40 - 160	P	11/07/2024	14:42	LB133344
	Chromium	9.25	10.0	92	40 - 160	P	11/07/2024	14:42	LB133344
	Cobalt	29.3	30.0	98	40 - 160	P	11/07/2024	14:42	LB133344
	Copper	22.5	20.0	112	40 - 160	P	11/07/2024	14:42	LB133344
	Iron	95.5	100	96	40 - 160	P	11/07/2024	14:42	LB133344
	Lead	11.3	12.0	94	40 - 160	P	11/07/2024	14:42	LB133344
	Magnesium	2000	2000	100	40 - 160	P	11/07/2024	14:42	LB133344
	Manganese	20.5	20.0	102	40 - 160	P	11/07/2024	14:42	LB133344
	Nickel	38.8	40.0	97	40 - 160	P	11/07/2024	14:42	LB133344
	Potassium	1950	2000	98	40 - 160	P	11/07/2024	14:42	LB133344
	Selenium	18.8	20.0	94	40 - 160	P	11/07/2024	14:42	LB133344
	Silver	10.7	10.0	107	40 - 160	P	11/07/2024	14:42	LB133344
	Sodium	1610	2000	81	40 - 160	P	11/07/2024	14:42	LB133344
	Thallium	41.6	40.0	104	40 - 160	P	11/07/2024	14:42	LB133344
	Vanadium	40.4	40.0	101	40 - 160	P	11/07/2024	14:42	LB133344
	Zinc	41.4	40.0	104	40 - 160	P	11/07/2024	14:42	LB133344

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Metals
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INTERFERENCE CHECK SAMPLE

Client: Union Paving & Construction Company **SDG No.:** P4663

Contract: UNIO02 **Lab Code:** CHEM **Case No.:** P4663 **SAS No.:** P4663

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	238000	255000	93	216000	294000	11/04/2024	18:03	LB133296
	Antimony	4.43			-50	50	11/04/2024	18:03	LB133296
	Arsenic	-3.23			-20	20	11/04/2024	18:03	LB133296
	Barium	14.2	6.0	237	-94	106	11/04/2024	18:03	LB133296
	Beryllium	3.74			-6	6	11/04/2024	18:03	LB133296
	Cadmium	3.20	1.0	320	-5	7	11/04/2024	18:03	LB133296
	Calcium	232000	245000	95	208000	282000	11/04/2024	18:03	LB133296
	Chromium	60.6	52.0	116	42	62	11/04/2024	18:03	LB133296
	Cobalt	2.80			-30	30	11/04/2024	18:03	LB133296
	Copper	21.1	2.0	1055	-18	22	11/04/2024	18:03	LB133296
	Iron	95000	101000	94	85600	116500	11/04/2024	18:03	LB133296
	Lead	1.99			-12	12	11/04/2024	18:03	LB133296
	Magnesium	251000	255000	98	216000	294000	11/04/2024	18:03	LB133296
	Manganese	6.90	7.0	99	-13	27	11/04/2024	18:03	LB133296
	Nickel	7.25	2.0	362	-38	42	11/04/2024	18:03	LB133296
	Potassium	-79.8			0	0	11/04/2024	18:03	LB133296
	Selenium	-11.0			-20	20	11/04/2024	18:03	LB133296
	Silver	0.40			-10	10	11/04/2024	18:03	LB133296
	Sodium	149			0	0	11/04/2024	18:03	LB133296
	Thallium	-1.19			-40	40	11/04/2024	18:03	LB133296
	Vanadium	8.02			-40	40	11/04/2024	18:03	LB133296
	Zinc	4.45			-40	40	11/04/2024	18:03	LB133296
ICSAB01	Aluminum	239000	247000	97	209000	285000	11/04/2024	18:07	LB133296
	Antimony	607	618	98	525	711	11/04/2024	18:07	LB133296
	Arsenic	95.4	104	92	88.4	120	11/04/2024	18:07	LB133296
	Barium	490	537	91	437	637	11/04/2024	18:07	LB133296
	Beryllium	534	495	108	420	570	11/04/2024	18:07	LB133296
	Cadmium	984	972	101	826	1120	11/04/2024	18:07	LB133296
	Calcium	232000	235000	99	199000	271000	11/04/2024	18:07	LB133296
	Chromium	595	542	110	460	624	11/04/2024	18:07	LB133296
	Cobalt	515	476	108	404	548	11/04/2024	18:07	LB133296
	Copper	510	511	100	434	588	11/04/2024	18:07	LB133296
	Iron	97000	99300	98	84400	114500	11/04/2024	18:07	LB133296
	Lead	50.7	49.0	104	37	61	11/04/2024	18:07	LB133296
	Magnesium	251000	248000	101	210000	286000	11/04/2024	18:07	LB133296
	Manganese	491	507	97	430	584	11/04/2024	18:07	LB133296
	Nickel	1030	954	108	810	1100	11/04/2024	18:07	LB133296
	Potassium	-80.3			0	0	11/04/2024	18:07	LB133296
	Selenium	38.9	46.0	85	26	66	11/04/2024	18:07	LB133296
	Silver	201	201	100	170	232	11/04/2024	18:07	LB133296
	Sodium	146			0	0	11/04/2024	18:07	LB133296
	Thallium	69.5	108	64	68	148	11/04/2024	18:07	LB133296

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Metals
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INTERFERENCE CHECK SAMPLE

Client: Union Paving & Construction Company **SDG No.:** P4663

Contract: UNIO02 **Lab Code:** CHEM **Case No.:** P4663 **SAS No.:** P4663

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	485	491	99	417	565	11/04/2024	18:07	LB133296
	Zinc	1050	952	110	809	1095	11/04/2024	18:07	LB133296
ICSA01	Aluminum	257000	255000	101	216000	294000	11/06/2024	18:08	LB133323
	Antimony	-0.051			-50	50	11/06/2024	18:08	LB133323
	Arsenic	2.46			-20	20	11/06/2024	18:08	LB133323
	Barium	5.21	6.0	87	-94	106	11/06/2024	18:08	LB133323
	Beryllium	1.28			-6	6	11/06/2024	18:08	LB133323
	Cadmium	6.38	1.0	638	-5	7	11/06/2024	18:08	LB133323
	Calcium	248000	245000	101	208000	282000	11/06/2024	18:08	LB133323
	Chromium	56.4	52.0	108	42	62	11/06/2024	18:08	LB133323
	Cobalt	2.02			-30	30	11/06/2024	18:08	LB133323
	Copper	0.49	2.0	24	-18	22	11/06/2024	18:08	LB133323
	Iron	98800	101000	98	85600	116500	11/06/2024	18:08	LB133323
	Lead	9.93			-12	12	11/06/2024	18:08	LB133323
	Magnesium	268000	255000	105	216000	294000	11/06/2024	18:08	LB133323
	Manganese	4.23	7.0	60	-13	27	11/06/2024	18:08	LB133323
	Nickel	3.00	2.0	150	-38	42	11/06/2024	18:08	LB133323
	Potassium	15.0			0	0	11/06/2024	18:08	LB133323
	Selenium	-15.6			-20	20	11/06/2024	18:08	LB133323
	Silver	1.23			-10	10	11/06/2024	18:08	LB133323
	Sodium	-15.2			0	0	11/06/2024	18:08	LB133323
	Thallium	2.62			-40	40	11/06/2024	18:08	LB133323
	Vanadium	7.34			-40	40	11/06/2024	18:08	LB133323
	Zinc	8.08			-40	40	11/06/2024	18:08	LB133323
ICSAB01	Aluminum	261000	247000	106	209000	285000	11/06/2024	18:13	LB133323
	Antimony	616	618	100	525	711	11/06/2024	18:13	LB133323
	Arsenic	114	104	110	88.4	120	11/06/2024	18:13	LB133323
	Barium	529	537	98	437	637	11/06/2024	18:13	LB133323
	Beryllium	527	495	106	420	570	11/06/2024	18:13	LB133323
	Cadmium	1020	972	105	826	1120	11/06/2024	18:13	LB133323
	Calcium	250000	235000	106	199000	271000	11/06/2024	18:13	LB133323
	Chromium	562	542	104	460	624	11/06/2024	18:13	LB133323
	Cobalt	514	476	108	404	548	11/06/2024	18:13	LB133323
	Copper	488	511	96	434	588	11/06/2024	18:13	LB133323
	Iron	100000	99300	101	84400	114500	11/06/2024	18:13	LB133323
	Lead	57.7	49.0	118	37	61	11/06/2024	18:13	LB133323
	Magnesium	270000	248000	109	210000	286000	11/06/2024	18:13	LB133323
	Manganese	516	507	102	430	584	11/06/2024	18:13	LB133323
	Nickel	1010	954	106	810	1100	11/06/2024	18:13	LB133323
	Potassium	3.43			0	0	11/06/2024	18:13	LB133323
	Selenium	36.0	46.0	78	26	66	11/06/2024	18:13	LB133323
	Silver	203	201	101	170	232	11/06/2024	18:13	LB133323

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Metals
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INTERFERENCE CHECK SAMPLE

Client: Union Paving & Construction Company **SDG No.:** P4663

Contract: UNIO02 **Lab Code:** CHEM **Case No.:** P4663 **SAS No.:** P4663

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	-114			0	0	11/06/2024	18:13	LB133323
	Thallium	105	108	97	68	148	11/06/2024	18:13	LB133323
	Vanadium	507	491	103	417	565	11/06/2024	18:13	LB133323
	Zinc	1070	952	112	809	1095	11/06/2024	18:13	LB133323
ICSA01	Aluminum	255000	255000	100	216000	294000	11/07/2024	14:47	LB133344
	Antimony	-0.14			-50	50	11/07/2024	14:47	LB133344
	Arsenic	4.03			-20	20	11/07/2024	14:47	LB133344
	Barium	1.97	6.0	33	-94	106	11/07/2024	14:47	LB133344
	Beryllium	1.25			-6	6	11/07/2024	14:47	LB133344
	Cadmium	6.27	1.0	627	-5	7	11/07/2024	14:47	LB133344
	Calcium	235000	245000	96	208000	282000	11/07/2024	14:47	LB133344
	Chromium	54.7	52.0	105	42	62	11/07/2024	14:47	LB133344
	Cobalt	1.98			-30	30	11/07/2024	14:47	LB133344
	Copper	6.59	2.0	330	-18	22	11/07/2024	14:47	LB133344
	Iron	95800	101000	95	85600	116500	11/07/2024	14:47	LB133344
	Lead	8.91			-12	12	11/07/2024	14:47	LB133344
	Magnesium	257000	255000	101	216000	294000	11/07/2024	14:47	LB133344
	Manganese	4.04	7.0	58	-13	27	11/07/2024	14:47	LB133344
	Nickel	2.14	2.0	107	-38	42	11/07/2024	14:47	LB133344
	Potassium	27.1			0	0	11/07/2024	14:47	LB133344
	Selenium	-18.3			-20	20	11/07/2024	14:47	LB133344
	Silver	0.85			-10	10	11/07/2024	14:47	LB133344
	Sodium	-30.2			0	0	11/07/2024	14:47	LB133344
	Thallium	4.42			-40	40	11/07/2024	14:47	LB133344
	Vanadium	7.40			-40	40	11/07/2024	14:47	LB133344
	Zinc	6.19			-40	40	11/07/2024	14:47	LB133344
ICSAB01	Aluminum	261000	247000	106	209000	285000	11/07/2024	14:51	LB133344
	Antimony	621	618	100	525	711	11/07/2024	14:51	LB133344
	Arsenic	116	104	112	88.4	120	11/07/2024	14:51	LB133344
	Barium	504	537	94	437	637	11/07/2024	14:51	LB133344
	Beryllium	498	495	101	420	570	11/07/2024	14:51	LB133344
	Cadmium	999	972	103	826	1120	11/07/2024	14:51	LB133344
	Calcium	238000	235000	101	199000	271000	11/07/2024	14:51	LB133344
	Chromium	556	542	103	460	624	11/07/2024	14:51	LB133344
	Cobalt	503	476	106	404	548	11/07/2024	14:51	LB133344
	Copper	493	511	96	434	588	11/07/2024	14:51	LB133344
	Iron	98300	99300	99	84400	114500	11/07/2024	14:51	LB133344
	Lead	56.6	49.0	116	37	61	11/07/2024	14:51	LB133344
	Magnesium	260000	248000	105	210000	286000	11/07/2024	14:51	LB133344
	Manganese	484	507	96	430	584	11/07/2024	14:51	LB133344
	Nickel	991	954	104	810	1100	11/07/2024	14:51	LB133344
	Potassium	10.4			0	0	11/07/2024	14:51	LB133344

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Metals
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INTERFERENCE CHECK SAMPLE

Client: Union Paving & Construction Company **SDG No.:** P4663

Contract: UNIO02 **Lab Code:** CHEM **Case No.:** P4663 **SAS No.:** P4663

ICS Source: EPA **Instrument ID:** P4

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Low Limit (ug/L)	High Limit (ug/L)	Analysis Date	Analysis Time	Run Number
ICSAB01	Selenium	32.9	46.0	72	26	66	11/07/2024	14:51	LB133344
	Silver	201	201	100	170	232	11/07/2024	14:51	LB133344
	Sodium	-89.4			0	0	11/07/2024	14:51	LB133344
	Thallium	106	108	98	68	148	11/07/2024	14:51	LB133344
	Vanadium	493	491	100	417	565	11/07/2024	14:51	LB133344
	Zinc	835	952	88	809	1095	11/07/2024	14:51	LB133344

METAL QC DATA

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metals
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MATRIX SPIKE SUMMARY

client: Union Paving & Construction Company **level:** low **sdg no.:** P4663

contract: UNIO02 **lab code:** CHEM **case no.:** P4663 **sas no.:** P4663

matrix: Solid **sample id:** P4663-02 **client id:** TENNANT-PAD-2-3-STOCKPILEMS

Percent Solids for Sample: 90.9 **Spiked ID:** P4663-02MS **Percent Solids for Spike Sample:** 90.9

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	mg/Kg	80 - 120	0.32		0.011	J	0.26	118		CV

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metals
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MATRIX SPIKE DUPLICATE SUMMARY

client: Union Paving & Construction Company **level:** low **sdg no.:** P4663

contract: UNIO02 **lab code:** CHEM **case no.:** P4663 **sas no.:** P4663

matrix: Solid **sample id:** P4663-02 **client id:** TENNANT-PAD-2-3-STOCKPILEMSD

Percent Solids for Sample: 90.9 **Spiked ID:** P4663-02MSD **Percent Solids for Spike Sample:** 90.9

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	mg/Kg	80 - 120	0.33		0.011	J	0.28	114		CV

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metals
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MATRIX SPIKE SUMMARY

client: Union Paving & Construction Company **level:** low **sdg no.:** P4663

contract: UNIO02 **lab code:** CHEM **case no.:** P4663 **sas no.:** P4663

matrix: Solid **sample id:** P4680-05 **client id:** BP-F25MS

Percent Solids for Sample: 88.8 **Spiked ID:** P4680-05MS **Percent Solids for Spike Sample:** 88.8

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	mg/Kg	75 - 125	6560		6230		93.1	352		P
Antimony	mg/Kg	75 - 125	21.3		2.56	U	37.2	57	N	P
Arsenic	mg/Kg	75 - 125	35.4		2.33		37.2	89		P
Barium	mg/Kg	75 - 125	72.0		67.8		9.3	45		P
Beryllium	mg/Kg	75 - 125	8.85		0.71		9.3	88		P
Cadmium	mg/Kg	75 - 125	11.9		1.94		9.3	107		P
Calcium	mg/Kg	75 - 125	3920		7240		46.5	-7143		P
Chromium	mg/Kg	75 - 125	29.4		14.1		18.6	82		P
Cobalt	mg/Kg	75 - 125	18.9		8.56		9.3	111		P
Copper	mg/Kg	75 - 125	60.6		46.0		14.0	104		P
Iron	mg/Kg	75 - 125	13700		14400		140	-535		P
Lead	mg/Kg	75 - 125	57.4		9.57		46.5	103		P
Magnesium	mg/Kg	75 - 125	4060		3660		93.1	423		P
Manganese	mg/Kg	75 - 125	507		458		9.3	528		P
Nickel	mg/Kg	75 - 125	43.2		17.7		23.3	109		P
Potassium	mg/Kg	75 - 125	1740		1380		470	78		P
Selenium	mg/Kg	75 - 125	72.4		1.02	U	93.1	78		P
Silver	mg/Kg	75 - 125	3.36		0.31	J	3.5	87		P
Sodium	mg/Kg	75 - 125	574		420		140	110		P
Thallium	mg/Kg	75 - 125	95.1		2.05	U	93.1	102		P
Vanadium	mg/Kg	75 - 125	31.6		19.4		14.0	88		P
Zinc	mg/Kg	75 - 125	44.1		33.9		9.3	109		P

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metals
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MATRIX SPIKE DUPLICATE SUMMARY

client: Union Paving & Construction Company **level:** low **sdg no.:** P4663

contract: UNIO02 **lab code:** CHEM **case no.:** P4663 **sas no.:** P4663

matrix: Solid **sample id:** P4680-05 **client id:** BP-F25MSD

Percent Solids for Sample: 88.8 **Spiked ID:** P4680-05MSD **Percent Solids for Spike Sample:** 88.8

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	mg/Kg	75 - 125	7790		6230		110	1412		P
Antimony	mg/Kg	75 - 125	25.0		2.56	U	43.9	57	N	P
Arsenic	mg/Kg	75 - 125	41.5		2.33		43.9	89		P
Barium	mg/Kg	75 - 125	84.3		67.8		11.0	151		P
Beryllium	mg/Kg	75 - 125	10.6		0.71		11.0	90		P
Cadmium	mg/Kg	75 - 125	14.0		1.94		11.0	110		P
Calcium	mg/Kg	75 - 125	4650		7240		54.9	-4727		P
Chromium	mg/Kg	75 - 125	34.8		14.1		22.0	94		P
Cobalt	mg/Kg	75 - 125	22.2		8.56		11.0	124		P
Copper	mg/Kg	75 - 125	71.3		46.0		16.5	154	N	P
Iron	mg/Kg	75 - 125	15900		14400		160	925		P
Lead	mg/Kg	75 - 125	67.6		9.57		54.9	106		P
Magnesium	mg/Kg	75 - 125	4810		3660		110	1039		P
Manganese	mg/Kg	75 - 125	597		458		11.0	1258		P
Nickel	mg/Kg	75 - 125	51.0		17.7		27.5	121		P
Potassium	mg/Kg	75 - 125	2030		1380		550	119		P
Selenium	mg/Kg	75 - 125	84.4		1.02	U	110	77		P
Silver	mg/Kg	75 - 125	3.89		0.31	J	4.1	87		P
Sodium	mg/Kg	75 - 125	662		420		160	151	N	P
Thallium	mg/Kg	75 - 125	110		2.05	U	110	100		P
Vanadium	mg/Kg	75 - 125	37.3		19.4		16.5	109		P
Zinc	mg/Kg	75 - 125	52.1		33.9		11.0	166	N	P

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Metals
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POST DIGEST SPIKE SUMMARY

Client: Union Paving & Construction Company **SDG No.:** P4663

Contract: UNIO02 **Lab Code:** CHEM **Case No.:** P4663 **SAS No.:** P4663

Matrix: Solid **Level:** LOW **Client ID:** BP-F25A

Sample ID: P4680-05 **Spiked ID:** P4680-05A

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Antimony	mg/Kg	75 - 125	22.5		2.56	U	41.0	55		P
Copper	mg/Kg	75 - 125	64.4		46.0		15.4	120		P
Sodium	mg/Kg	75 - 125	621		420		150	134		P
Zinc	mg/Kg	75 - 125	47.7		33.9		10.2	135		P

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DUPLICATE SAMPLE SUMMARY

Client: Union Paving & Construction Company **Level:** LOW **SDG No.:** P4663

Contract: UNIO02 **Lab Code:** CHEM **Case No.:** P4663 **SAS No.:** P4663

Matrix: Solid **Sample ID:** P4663-02 **Client ID:** TENNANT-PAD-2-3-STOCKPILEDUP

Percent Solids for Sample: 90.9 **Duplicate ID** P4663-02DUP **Percent Solids for Spike Sample:** 90.9

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Mercury	mg/Kg	20	0.011	J	0.011	J	0		CV

"A control limit of ±20% RPD for each matrix applies for sample values greater than 10 times Detection Limit"

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DUPLICATE SAMPLE SUMMARY

Client: Union Paving & Construction Company **Level:** LOW **SDG No.:** P4663

Contract: UNIO02 **Lab Code:** CHEM **Case No.:** P4663 **SAS No.:** P4663

Matrix: Solid **Sample ID:** P4663-02MS **Client ID:** TENNANT-PAD-2-3-STOCKPILEMSD

Percent Solids for Sample: 90.9 **Duplicate ID** P4663-02MSD **Percent Solids for Spike Sample:** 90.9

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Mercury	mg/Kg	20	0.32		0.33		3		CV

"A control limit of ±20% RPD for each matrix applies for sample values greater than 10 times Detection Limit"

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DUPLICATE SAMPLE SUMMARY

Client: Union Paving & Construction Company **Level:** LOW **SDG No.:** P4663

Contract: UNIO02 **Lab Code:** CHEM **Case No.:** P4663 **SAS No.:** P4663

Matrix: Solid **Sample ID:** P4680-05 **Client ID:** BP-F25DUP

Percent Solids for Sample: 88.8 **Duplicate ID** P4680-05DUP **Percent Solids for Spike Sample:** 88.8

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	mg/Kg	20	6230		5820		7		P
Antimony	mg/Kg	20	2.56	U	2.39	U			P
Arsenic	mg/Kg	20	2.33		2.34		0		P
Barium	mg/Kg	20	67.8		63.0		7		P
Beryllium	mg/Kg	20	0.71		0.66		6		P
Cadmium	mg/Kg	20	1.94		1.82		6		P
Calcium	mg/Kg	20	7240		6790		6		P
Chromium	mg/Kg	20	14.1		13.2		7		P
Cobalt	mg/Kg	20	8.56		8.03		6		P
Copper	mg/Kg	20	46.0		42.9		7		P
Iron	mg/Kg	20	14400		13500		6		P
Lead	mg/Kg	20	9.57		8.98		6		P
Magnesium	mg/Kg	20	3660		3430		6		P
Manganese	mg/Kg	20	458		428		7		P
Nickel	mg/Kg	20	17.7		16.6		6		P
Potassium	mg/Kg	20	1380		1280		8		P
Selenium	mg/Kg	20	1.02	U	0.95	U			P
Silver	mg/Kg	20	0.31	J	0.28	J	8		P
Sodium	mg/Kg	20	420		387		8		P
Thallium	mg/Kg	20	2.05	U	1.91	U			P
Vanadium	mg/Kg	20	19.4		18.1		7		P
Zinc	mg/Kg	20	33.9		31.8		6		P

"A control limit of ±20% RPD for each matrix applies for sample values greater than 10 times Detection Limit"

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DUPLICATE SAMPLE SUMMARY

Client: Union Paving & Construction Company **Level:** LOW **SDG No.:** P4663

Contract: UNIO02 **Lab Code:** CHEM **Case No.:** P4663 **SAS No.:** P4663

Matrix: Solid **Sample ID:** P4680-05MS **Client ID:** BP-F25MSD

Percent Solids for Sample: 88.8 **Duplicate ID** P4680-05MSD **Percent Solids for Spike Sample:** 88.8

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	mg/Kg	20	6560		7790		17		P
Antimony	mg/Kg	20	21.3		25.0		16		P
Arsenic	mg/Kg	20	35.4		41.5		16		P
Barium	mg/Kg	20	72.0		84.3		16		P
Beryllium	mg/Kg	20	8.85		10.6		18		P
Cadmium	mg/Kg	20	11.9		14.0		16		P
Calcium	mg/Kg	20	3920		4650		17		P
Chromium	mg/Kg	20	29.4		34.8		17		P
Cobalt	mg/Kg	20	18.9		22.2		16		P
Copper	mg/Kg	20	60.6		71.3		16		P
Iron	mg/Kg	20	13700		15900		15		P
Lead	mg/Kg	20	57.4		67.6		16		P
Magnesium	mg/Kg	20	4060		4810		17		P
Manganese	mg/Kg	20	507		597		16		P
Nickel	mg/Kg	20	43.2		51.0		17		P
Potassium	mg/Kg	20	1740		2030		15		P
Selenium	mg/Kg	20	72.4		84.4		15		P
Silver	mg/Kg	20	3.36		3.89		15		P
Sodium	mg/Kg	20	574		662		14		P
Thallium	mg/Kg	20	95.1		110		15		P
Vanadium	mg/Kg	20	31.6		37.3		17		P
Zinc	mg/Kg	20	44.1		52.1		17		P

"A control limit of ±20% RPD for each matrix applies for sample values greater than 10 times Detection Limit"

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LABORATORY CONTROL SAMPLE SUMMARY

Client: Union Paving & Construction Company **SDG No.:** P4663

Contract: UNIO02 **Lab Code:** CHEM **Case No.:** P4663 **SAS No.:** P4663

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB164634BS							
Aluminum	mg/Kg	95.2	92.5		97	80 - 120	P
Antimony	mg/Kg	38.1	38.1		100	80 - 120	P
Arsenic	mg/Kg	38.1	38.3		100	80 - 120	P
Barium	mg/Kg	9.5	8.91		94	80 - 120	P
Beryllium	mg/Kg	9.5	8.92		94	80 - 120	P
Cadmium	mg/Kg	9.5	8.76		92	80 - 120	P
Calcium	mg/Kg	47.6	47.2	J	99	80 - 120	P
Chromium	mg/Kg	19.0	18.2		96	80 - 120	P
Cobalt	mg/Kg	9.5	8.91		94	80 - 120	P
Copper	mg/Kg	14.3	14.7		103	80 - 120	P
Iron	mg/Kg	140	131		94	80 - 120	P
Lead	mg/Kg	47.6	44.8		94	80 - 120	P
Magnesium	mg/Kg	95.2	86.7	J	91	80 - 120	P
Manganese	mg/Kg	9.5	8.83		93	80 - 120	P
Nickel	mg/Kg	23.8	22.4		94	80 - 120	P
Potassium	mg/Kg	480	462		96	80 - 120	P
Selenium	mg/Kg	95.2	96.6		102	80 - 120	P
Silver	mg/Kg	3.6	3.44		96	80 - 120	P
Sodium	mg/Kg	140	158		113	80 - 120	P
Thallium	mg/Kg	95.2	100		105	80 - 120	P
Vanadium	mg/Kg	14.3	13.6		95	80 - 120	P
Zinc	mg/Kg	9.5	9.63		101	80 - 120	P

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Metals

LABORATORY CONTROL SAMPLE SUMMARY

Client: Union Paving & Construction Company **SDG No.:** P4663

Contract: UNIO02 **Lab Code:** CHEM **Case No.:** P4663 **SAS No.:** P4663

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB164668BS							
Mercury	mg/Kg	0.27	0.24		88	80 - 120	CV

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Metals

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ICP SERIAL DILUTIONS

SAMPLE NO.

TENNANT-PAD-2-3-STOCKPILEL

Lab Name: Chemtech Consulting Group **Contract:** UNIO02

Lab Code: CHEM **Lb No.:** lb133275 **Lab Sample ID :** P4663-02L **SDG No.:** P4663

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	0.011	J	0.069	U	100.0		CV

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Metals

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ICP SERIAL DILUTIONS

SAMPLE NO.

BP-F25L

Lab Name: Chemtech Consulting Group **Contract:** UNIO02

Lab Code: CHEM **Lb No.:** lb133323 **Lab Sample ID :** P4680-05L **SDG No.:** P4663

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	6230		7350		18		P
Antimony	2.56	U	12.8	U			P
Arsenic	2.33		2.89	J	24		P
Barium	67.8		79.3		17		P
Beryllium	0.71		0.94	J	32		P
Cadmium	1.94		1.40	J	28		P
Calcium	7240		8920		23		P
Chromium	14.1		17.3		23		P
Cobalt	8.56		8.57		0		P
Copper	46.0		58.3		27		P
Iron	14400		17000		18		P
Lead	9.57		9.91		4		P
Magnesium	3660		4440		21		P
Manganese	458		572		25		P
Nickel	17.7		18.1		2		P
Potassium	1380		1490		9		P
Selenium	1.02	U	5.12	U			P
Silver	0.31	J	0.28	J	9		P
Sodium	420		351	J	16		P
Thallium	2.05	U	10.2	U			P
Vanadium	19.4		23.9		24		P
Zinc	33.9		40.0		18		P

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ANALYSIS RUN LOG

Client: Union Paving & Construction Company **Contract:** UNIO02

Lab code: CHEM **Case no.:** P4663 **Sas no.:** P4663 **Sdg no.:** P4663

Instrument id number: **Method:** **Run number:** LB133275

Start date: 11/04/2024 **End date:** 11/04/2024

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1347	HG
S0.2	S0.2	1	1349	HG
S2.5	S2.5	1	1351	HG
S5	S5	1	1353	HG
S7.5	S7.5	1	1356	HG
S10	S10	1	1408	HG
ICV68	ICV68	1	1411	HG
ICB68	ICB68	1	1416	HG
CCV22	CCV22	1	1418	HG
CCB22	CCB22	1	1423	HG
CRA	CRA	1	1425	HG
PB164668BL	PB164668BL	1	1432	HG
PB164668BS	PB164668BS	1	1434	HG
P4663-02MS	TENNANT-PAD-2-3-STOCKPI	1	1441	HG
P4663-02MSD	TENNANT-PAD-2-3-STOCKPI	1	1443	HG
P4663-04	RES-BUILDING-PAD-NO-11	1	1446	HG
CCV23	CCV23	1	1448	HG
CCB23	CCB23	1	1453	HG
P4663-06	RES-BUILDING-PAD-NO-3	1	1455	HG
P4663-08	RES-BUILDING-PAD-NO-2	1	1457	HG
CCV24	CCV24	1	1518	HG
CCB24	CCB24	1	1520	HG
P4663-02	TENNANT-PAD-2-3-STOCKPI	1	1534	HG
P4663-02DUP	TENNANT-PAD-2-3-STOCKPI	1	1536	HG
P4663-02L	TENNANT-PAD-2-3-STOCKPI	5	1538	HG
CCV25	CCV25	1	1543	HG
CCB25	CCB25	1	1545	HG

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ANALYSIS RUN LOG

Client: Union Paving & Construction Company **Contract:** UNIO02

Lab code: CHEM **Case no.:** P4663 **Sas no.:** P4663 **Sdg no.:** P4663

Instrument id number: **Method:** **Run number:** LB133296

Start date: 11/04/2024 **End date:** 11/04/2024

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1657	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	1702	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	1706	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	1710	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	1714	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	1718	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	1728	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	1737	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	1747	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	1752	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	1803	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	1807	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	1811	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	1816	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	1902	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	1907	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	1946	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	1958	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
P4663-02	TENNANT-PAD-2-3-STOCKPI	1	2012	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
P4663-04	RES-BUILDING-PAD-NO-11	1	2017	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
P4663-06	RES-BUILDING-PAD-NO-3	1	2021	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
P4663-08	RES-BUILDING-PAD-NO-2	1	2025	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	2107	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	2111	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	2147	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	2151	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn

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ANALYSIS RUN LOG

Client: Union Paving & Construction Company **Contract:** UNIO02

Lab code: CHEM **Case no.:** P4663 **Sas no.:** P4663 **Sdg no.:** P4663

Instrument id number: **Method:** **Run number:** LB133323

Start date: 11/06/2024 **End date:** 11/07/2024

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1709	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	1713	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	1717	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	1722	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	1726	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	1730	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	1734	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	1738	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	1743	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	1804	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	1808	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	1813	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	1823	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	1827	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	1839	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	1844	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
P4680-05DUP	BP-F25DUP	1	1928	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	1932	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	1936	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
P4680-05L	BP-F25L	5	1940	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
P4680-05MS	BP-F25MS	1	1944	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
P4680-05MSD	BP-F25MSD	1	1948	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
P4680-05A	BP-F25A	1	1952	Cu,Na,Sb,Zn
CCV04	CCV04	1	2022	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	2026	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	2113	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	2117	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	2211	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	2215	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	2303	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	2307	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	2359	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	0003	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	0053	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	0057	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	0149	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB10	CCB10	1	0153	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: Union Paving & Construction Company **Contract:** UNIO02

Lab code: CHEM **Case no.:** P4663 **Sas no.:** P4663 **Sdg no.:** P4663

Instrument id number: **Method:** **Run number:** LB133344

Start date: 11/07/2024 **End date:** 11/08/2024

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1323	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	1328	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	1332	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	1336	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	1340	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	1345	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	1349	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	1423	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	1438	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	1442	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	1447	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	1451	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	1501	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	1505	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	1553	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	1558	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	1645	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	1649	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	1756	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	1804	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	1832	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	1837	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	1912	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	1958	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
CCV08	CCV08	1	2058	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	2102	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	2151	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	2155	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	2252	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB10	CCB10	1	2256	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV11	CCV11	1	2343	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB11	CCB11	1	2347	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
PB164634BL	PB164634BL	1	0008	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
PB164634BS	PB164634BS	1	0013	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV12	CCV12	1	0039	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB12	CCB12	1	0043	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV13	CCV13	1	0057	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB13	CCB13	1	0101	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: Union Paving & Construction Company **SDG No.:** P4663

Contract: UNIO02 **Lab Code:** CHEM **Case No.:** P4663 **SAS No.:** P4663

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: Union Paving & Construction Company **SDG No.:** P4663

Contract: UNIO02 **Lab Code:** CHEM **Case No.:** P4663 **SAS No.:** P4663

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: Union Paving & Construction Company **SDG No.:** P4663

Contract: UNIO02 **Lab Code:** CHEM **Case No.:** P4663 **SAS No.:** P4663

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: Union Paving & Construction Company **SDG No.:** P4663

Contract: UNIO02 **Lab Code:** CHEM **Case No.:** P4663 **SAS No.:** P4663

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: Union Paving & Construction Company **SDG No.:** P4663

Contract: UNIO02 **Lab Code:** CHEM **Case No.:** P4663 **SAS No.:** P4663

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

Alliance TECHNICAL GROUP
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LAB CHRONICLE

OrderID:	P4663	**OrderDate:**	10/31/2024 3:05:00 PM
Client:	Union Paving & Construction Company	**Project:**	Rt. 10 Whippany
Contact:	Gregory Butler	**Location:**	K41,VOA Ref. #2 Soil

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P4663-02	**TENNANT-PAD-2-3-STOCKPILE**	**SOIL**			**10/31/24**			**10/31/24**
			Mercury	7471B		11/04/24	11/04/24	
			Metals ICP-TAL	6010D		11/03/24	11/04/24	
P4663-04	**RES-BUILDING-PAD-NO-11**	**SOIL**			**10/31/24**			**10/31/24**
			Mercury	7471B		11/04/24	11/04/24	
			Metals ICP-TAL	6010D		11/03/24	11/04/24	
P4663-06	**RES-BUILDING-PAD-NO-3**	**SOIL**			**10/31/24**			**10/31/24**
			Mercury	7471B		11/04/24	11/04/24	
			Metals ICP-TAL	6010D		11/03/24	11/04/24	
P4663-08	**RES-BUILDING-PAD-NO-2**	**SOIL**			**10/31/24**			**10/31/24**
			Mercury	7471B		11/04/24	11/04/24	
			Metals ICP-TAL	6010D		11/03/24	11/04/24	

METAL PREPARATION & ANALYICAL SUMMARY

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

Metals
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SAMPLE PREPARATION SUMMARY

Client: Union Paving & Construction Company **SDG No.:** P4663

Contract: UNIO02 **Lab Code:** CHEM **Method:**

Case No.: P4663 **SAS No.:** P4663

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(g)	Final Sample Volume (mL)	Percent Solids
Batch Number:	**PB164634**						
P4663-02	TENNANT-PAD-2-3-STOCKPILE	SAM	SOLID	11/03/2024	2.13	100.0	90.90
P4663-04	RES-BUILDING-PAD-NO-11	SAM	SOLID	11/03/2024	2.19	100.0	91.70
P4663-06	RES-BUILDING-PAD-NO-3	SAM	SOLID	11/03/2024	2.49	100.0	91.20
P4663-08	RES-BUILDING-PAD-NO-2	SAM	SOLID	11/03/2024	2.42	100.0	91.30
P4680-05DUP	BP-F25DUP	DUP	SOLID	11/03/2024	2.36	100.0	88.80
P4680-05MS	BP-F25MS	MS	SOLID	11/03/2024	2.42	100.0	88.80
P4680-05MSD	BP-F25MSD	MSD	SOLID	11/03/2024	2.05	100.0	88.80
PB164634BL	PB164634BL	MB	SOLID	11/03/2024	2.10	100.0	100.00
PB164634BS	PB164634BS	LCS	SOLID	11/03/2024	2.10	100.0	100.00

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Metals
- 13 -
SAMPLE PREPARATION SUMMARY

Client: Union Paving & Construction Company **SDG No.:** P4663

Contract: UNIO02 **Lab Code:** CHEM **Method:**

Case No.: P4663 **SAS No.:** P4663

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(g)	Final Sample Volume (mL)	Percent Solids
Batch Number:	**PB164668**						
P4663-02	TENNANT-PAD-2-3-STOCKPILE	SAM	SOLID	11/04/2024	0.56	35.0	90.90
P4663-02DUP	TENNANT-PAD-2-3-STOCKPILEDUP	DUP	SOLID	11/04/2024	0.55	35.0	90.90
P4663-02MS	TENNANT-PAD-2-3-STOCKPILEMS	MS	SOLID	11/04/2024	0.59	35.0	90.90
P4663-02MSD	TENNANT-PAD-2-3-STOCKPILEMSD	MSD	SOLID	11/04/2024	0.55	35.0	90.90
P4663-04	RES-BUILDING-PAD-NO-11	SAM	SOLID	11/04/2024	0.50	35.0	91.70
P4663-06	RES-BUILDING-PAD-NO-3	SAM	SOLID	11/04/2024	0.59	35.0	91.20
P4663-08	RES-BUILDING-PAD-NO-2	SAM	SOLID	11/04/2024	0.56	35.0	91.30
PB164668BL	PB164668BL	MB	SOLID	11/04/2024	0.56	35.0	100.00
PB164668BS	PB164668BS	LCS	SOLID	11/04/2024	0.52	35.0	100.00

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Instrument ID: CV1

Daily Analysis Runlog For Sequence/QCBatch ID # LB133275

Review By	mohan	Review On	11/6/2024 1:07:46 AM
Supervise By	jaswal	Supervise On	11/6/2024 1:08:59 AM

STD. NAME	STD REF.#
ICAL Standard	MP83017,MP83018,MP83019,MP83020,MP83021,MP83022
ICV Standard	MP83023
CCV Standard	MP83025
ICSA Standard	
CRI Standard	MP83027
LCS Standard	
Chk Standard	MP83024,MP83026,,,MP83028,MP83030

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	11/04/24 13:47		Mohan	OK
2	S0.2	S0.2	CAL2	11/04/24 13:49		Mohan	OK
3	S2.5	S2.5	CAL3	11/04/24 13:51		Mohan	OK
4	S5	S5	CAL4	11/04/24 13:53		Mohan	OK
5	S7.5	S7.5	CAL5	11/04/24 13:56		Mohan	OK
6	S10	S10	CAL6	11/04/24 14:08		Mohan	OK
7	ICV68	ICV68	ICV	11/04/24 14:11		Mohan	OK
8	ICB68	ICB68	ICB	11/04/24 14:16		Mohan	OK
9	CCV22	CCV22	CCV	11/04/24 14:18		Mohan	OK
10	CCB22	CCB22	CCB	11/04/24 14:23		Mohan	OK
11	CRA	CRA	CRDL	11/04/24 14:25		Mohan	OK
12	HighStd	HighStd	HIGH STD	11/04/24 14:27		Mohan	OK
13	ChkStd	ChkStd	SAM	11/04/24 14:30		Mohan	OK
14	PB164668BL	PB164668BL	MB	11/04/24 14:32		Mohan	OK
15	PB164668BS	PB164668BS	LCS	11/04/24 14:34		Mohan	OK
16	P4663-02MS	TENNANT-PAD-2-3-S	MS	11/04/24 14:41		Mohan	OK
17	P4663-02MSD	TENNANT-PAD-2-3-S	MSD	11/04/24 14:43		Mohan	OK
18	P4663-04	RES-BUILDING-PAD-	SAM	11/04/24 14:46		Mohan	OK

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Instrument ID: CV1

Daily Analysis Runlog For Sequence/QCBatch ID # LB133275

Review By	mohan	Review On	11/6/2024 1:07:46 AM
Supervise By	jaswal	Supervise On	11/6/2024 1:08:59 AM

STD. NAME	STD REF.#
ICAL Standard	MP83017,MP83018,MP83019,MP83020,MP83021,MP83022
ICV Standard	MP83023
CCV Standard	MP83025
ICSA Standard	
CRI Standard	MP83027
LCS Standard	
Chk Standard	MP83024,MP83026,,,MP83028,MP83030

19	CCV23	CCV23	CCV	11/04/24 14:48		Mohan	OK
20	CCB23	CCB23	CCB	11/04/24 14:53		Mohan	OK
21	P4663-06	RES-BUILDING-PAD-	SAM	11/04/24 14:55		Mohan	OK
22	P4663-08	RES-BUILDING-PAD-	SAM	11/04/24 14:57		Mohan	OK
23	P4667-01	BP-F-6	SAM	11/04/24 15:00		Mohan	OK
24	P4667-05	BP-F-5	SAM	11/04/24 15:02		Mohan	OK
25	P4667-09	TP-10	SAM	11/04/24 15:04		Mohan	OK
26	P4667-13	BP-F-7	SAM	11/04/24 15:06		Mohan	OK
27	P4675-01	COMP-1	SAM	11/04/24 15:09		Mohan	OK
28	P4675-02	COMP-2	SAM	11/04/24 15:11		Mohan	OK
29	P4675-03	COMP-3	SAM	11/04/24 15:13		Mohan	OK
30	P4675-04	COMP-4	SAM	11/04/24 15:16		Mohan	OK
31	CCV24	CCV24	CCV	11/04/24 15:18		Mohan	OK
32	CCB24	CCB24	CCB	11/04/24 15:20		Mohan	OK
33	P4675-05	COMP-5	SAM	11/04/24 15:22		Mohan	OK
34	P4675-06	COMP-6	SAM	11/04/24 15:25		Mohan	OK
35	P4679-01	MH-1	SAM	11/04/24 15:27		Mohan	OK
36	P4680-01	BP-F26	SAM	11/04/24 15:29		Mohan	OK
37	P4680-05	BP-F25	SAM	11/04/24 15:31		Mohan	OK
38	P4663-02	TENNANT-PAD-2-3-S	SAM	11/04/24 15:34		Mohan	OK

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Instrument ID: CV1

Daily Analysis Runlog For Sequence/QCBatch ID # LB133275

Review By	mohan	Review On	11/6/2024 1:07:46 AM
Supervise By	jaswal	Supervise On	11/6/2024 1:08:59 AM

STD. NAME	STD REF.#
ICAL Standard	MP83017,MP83018,MP83019,MP83020,MP83021,MP83022
ICV Standard	MP83023
CCV Standard	MP83025
ICSA Standard	
CRI Standard	MP83027
LCS Standard	
Chk Standard	MP83024,MP83026,,,MP83028,MP83030

39	P4663-02DUP	TENNANT-PAD-2-3-S	DUP	11/04/24 15:36		Mohan	OK
40	P4663-02L	TENNANT-PAD-2-3-S	SD	11/04/24 15:38		Mohan	OK
41	P4663-02A	TENNANT-PAD-2-3-S	PS	11/04/24 15:41		Mohan	OK
42	CCV25	CCV25	CCV	11/04/24 15:43		Mohan	OK
43	CCB25	CCB25	CCB	11/04/24 15:45		Mohan	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB133296

Review By	jaswal	Review On	11/6/2024 3:15:05 AM
Supervise By	kareem	Supervise On	11/7/2024 12:42:46 AM

STD. NAME	STD REF.#
ICAL Standard	MP83078,MP83079,MP73080,MP83081,MP83082,MP83084
ICV Standard	MP83085
CCV Standard	MP83088
ICSA Standard	MP83086,MP83087
CRI Standard	MP83084
LCS Standard	
Chk Standard	MP83091,MP83092

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	11/04/24 16:57		Kareem	OK
2	S1	S1	CAL2	11/04/24 17:02		Kareem	OK
3	S2	S2	CAL3	11/04/24 17:06		Kareem	OK
4	S3	S3	CAL4	11/04/24 17:10		Kareem	OK
5	S4	S4	CAL5	11/04/24 17:14		Kareem	OK
6	S5	S5	CAL6	11/04/24 17:18		Kareem	OK
7	ICV01	ICV01	ICV	11/04/24 17:28		Kareem	OK
8	LLICV01	LLICV01	LLICV	11/04/24 17:37		Kareem	OK
9	ICB01	ICB01	ICB	11/04/24 17:47		Kareem	OK
10	CRI01	CRI01	CRDL	11/04/24 17:52		Kareem	OK
11	ICSA01	ICSA01	ICSA	11/04/24 18:03		Kareem	OK
12	ICSAB01	ICSAB01	ICSAB	11/04/24 18:07		Kareem	OK
13	CCV01	CCV01	CCV	11/04/24 18:11		Kareem	OK
14	CCB01	CCB01	CCB	11/04/24 18:16		Kareem	OK
15	P4640-01	MH-3	SAM	11/04/24 18:20		Kareem	OK
16	P4643-01	BP-F9-ADDITIONAL	SAM	11/04/24 18:25		Kareem	OK
17	P4643-05	BP-F8	SAM	11/04/24 18:29		Kareem	OK
18	P4643-09	TP-9	SAM	11/04/24 18:33		Kareem	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB133296

Review By	jaswal	Review On	11/6/2024 3:15:05 AM
Supervise By	kareem	Supervise On	11/7/2024 12:42:46 AM

STD. NAME	STD REF.#
ICAL Standard	MP83078,MP83079,MP73080,MP83081,MP83082,MP83084
ICV Standard	MP83085
CCV Standard	MP83088
ICSA Standard	MP83086,MP83087
CRI Standard	MP83084
LCS Standard	
Chk Standard	MP83091,MP83092

19	P4645-01	Z-02-WC	SAM	11/04/24 18:37		Kareem	OK
20	P4645-01DUP	Z-02-WCDUP	DUP	11/04/24 18:42		Kareem	OK
21	P4645-01L	Z-02-WCL	SD	11/04/24 18:46		Kareem	OK
22	P4645-01MS	Z-02-WCMS	MS	11/04/24 18:50	0.1ML OF M6010 AND M6001 WERE ADDED TO 10ML OF SAMPLE	Kareem	OK
23	P4645-01MSD	Z-02-WCMSD	MSD	11/04/24 18:54	0.1ML OF M6010 AND M6001 WERE ADDED TO 10ML OF SAMPLE	Kareem	OK
24	P4645-01A	Z-02-WCA	PS	11/04/24 18:58	0.1ML OF M6010 AND M6001 WERE ADDED TO 10ML OF SAMPLE	Kareem	OK
25	CCV02	CCV02	CCV	11/04/24 19:02		Kareem	OK
26	CCB02	CCB02	CCB	11/04/24 19:07		Kareem	OK
27	PB164563BL	PB164563BL	MB	11/04/24 19:11	NOT USE	Kareem	Not Ok
28	PB164563BS	PB164563BS	LCS	11/04/24 19:15	NOT USE	Kareem	Not Ok
29	P4615-03	B-131-3-SB01	SAM	11/04/24 19:19		Kareem	OK
30	P4615-02	B-131-2-SB01	SAM	11/04/24 19:23		Kareem	OK
31	P4397-04	WB-301-SW	SAM	11/04/24 19:28	Na high	Kareem	Dilution
32	P4397-04DUP	WB-301-SWDUP	DUP	11/04/24 19:32	Na high	Kareem	Dilution
33	P4397-04L	WB-301-SWL	SD	11/04/24 19:37	Na high	Kareem	Dilution
34	P4397-04MS	WB-301-SWMS	MS	11/04/24 19:41	Na high	Kareem	Dilution
35	CCV03	CCV03	CCV	11/04/24 19:46		Kareem	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB133296

Review By	jaswal	Review On	11/6/2024 3:15:05 AM
Supervise By	kareem	Supervise On	11/7/2024 12:42:46 AM

STD. NAME	STD REF.#
ICAL Standard	MP83078,MP83079,MP73080,MP83081,MP83082,MP83084
ICV Standard	MP83085
CCV Standard	MP83088
ICSA Standard	MP83086,MP83087
CRI Standard	MP83084
LCS Standard	
Chk Standard	MP83091,MP83092

36	CCB03	CCB03	CCB	11/04/24 19:58		Kareem	OK
37	P4397-04MSD	WB-301-SWMSD	MSD	11/04/24 20:04	Na high	Kareem	Dilution
38	P4397-04A	WB-301-SWA	PS	11/04/24 20:08	0.1ML OF M6010 AND M6001 WERE ADDED TO 10ML OF SAMPLE	Kareem	OK
39	P4663-02	TENNANT-PAD-2-3-S	SAM	11/04/24 20:12		Kareem	OK
40	P4663-04	RES-BUILDING-PAD-	SAM	11/04/24 20:17		Kareem	OK
41	P4663-06	RES-BUILDING-PAD-	SAM	11/04/24 20:21		Kareem	OK
42	P4663-08	RES-BUILDING-PAD-	SAM	11/04/24 20:25		Kareem	OK
43	LR1	LR1	HIGH STD	11/04/24 20:33		Kareem	OK
44	LR2	LR2	HIGH STD	11/04/24 20:38		Kareem	OK
45	PB164522TB	PB164522TB	MB	11/04/24 20:44		Kareem	OK
46	PB164564BL	PB164564BL	MB	11/04/24 20:48		Kareem	OK
47	CCV04	CCV04	CCV	11/04/24 21:07		Kareem	OK
48	CCB04	CCB04	CCB	11/04/24 21:11		Kareem	OK
49	PB164564BS	PB164564BS	LCS	11/04/24 21:16	0.1ML OF M6010 AND M6001 WERE ADDED TO 10ML OF SAMPLE	Kareem	OK
50	P4397-04DL	WB-301-SWDL	SAM	11/04/24 21:21	10X for Na	Kareem	Confirms
51	P4397-04DUPDL	WB-301-SWDUPDL	DUP	11/04/24 21:25	10X for Na	Kareem	Confirms
52	P4397-04LDL	WB-301-SWLDL	SD	11/04/24 21:29	10X for Na	Kareem	Confirms
53	P4397-04MSDL	WB-301-SWMSDL	MS	11/04/24 21:34	10X for Na	Kareem	Confirms

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB133296

Review By	jaswal	Review On	11/6/2024 3:15:05 AM
Supervise By	kareem	Supervise On	11/7/2024 12:42:46 AM

STD. NAME	STD REF.#
ICAL Standard	MP83078,MP83079,MP73080,MP83081,MP83082,MP83084
ICV Standard	MP83085
CCV Standard	MP83088
ICSA Standard	MP83086,MP83087
CRI Standard	MP83084
LCS Standard	
Chk Standard	MP83091,MP83092

54	P4397-04MSDDL	WB-301-SWMSDDL	MSD	11/04/24 21:38	10X for Na	Kareem	Confirms
55	P4397-04ADL	WB-301-SWADL	PS	11/04/24 21:42	Not used	Kareem	Not Ok
56	CCV05	CCV05	CCV	11/04/24 21:47		Kareem	OK
57	CCB05	CCB05	CCB	11/04/24 21:51		Kareem	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB133323

Review By	kareem	Review On	11/7/2024 1:15:13 PM
Supervise By	mohan	Supervise On	11/11/2024 12:01:52 AM

STD. NAME	STD REF.#
ICAL Standard	MP83078 MP83079 MP73080 MP83081 MP83082 MP83084
ICV Standard	MP83085
CCV Standard	MP83088
ICSA Standard	MP83086 MP83087
CRI Standard	MP83084
LCS Standard	
Chk Standard	MP83091 MP83092

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	11/06/24 17:09		Kareem	OK
2	S1	S1	CAL2	11/06/24 17:13		Kareem	OK
3	S2	S2	CAL3	11/06/24 17:17		Kareem	OK
4	S3	S3	CAL4	11/06/24 17:22		Kareem	OK
5	S4	S4	CAL5	11/06/24 17:26		Kareem	OK
6	S5	S5	CAL6	11/06/24 17:30		Kareem	OK
7	ICV01	ICV01	ICV	11/06/24 17:34		Kareem	OK
8	LLICV01	LLICV01	LLICV	11/06/24 17:38		Kareem	OK
9	ICB01	ICB01	ICB	11/06/24 17:43		Kareem	OK
10	CRI01	CRI01	CRDL	11/06/24 18:04		Kareem	OK
11	ICSA01	ICSA01	ICSA	11/06/24 18:08		Kareem	OK
12	ICSAB01	ICSAB01	ICSAB	11/06/24 18:13		Kareem	OK
13	CCV01	CCV01	CCV	11/06/24 18:23		Kareem	OK
14	CCB01	CCB01	CCB	11/06/24 18:27		Kareem	OK
15	P4709-01	HR-02-110424	SAM	11/06/24 18:31		Kareem	OK
16	P4709-03	HR-03-110424	SAM	11/06/24 18:35		Kareem	OK
17	CCV02	CCV02	CCV	11/06/24 18:39		Kareem	OK
18	CCB02	CCB02	CCB	11/06/24 18:44		Kareem	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB133323

Review By	kareem	Review On	11/7/2024 1:15:13 PM
Supervise By	mohan	Supervise On	11/11/2024 12:01:52 AM

STD. NAME	STD REF.#
ICAL Standard	MP83078 MP83079 MP73080 MP83081 MP83082 MP83084
ICV Standard	MP83085
CCV Standard	MP83088
ICSA Standard	MP83086 MP83087
CRI Standard	MP83084
LCS Standard	
Chk Standard	MP83091 MP83092

19	P4652-01	RW5-SP100-50-2024	SAM	11/06/24 18:49		Kareem	OK
20	P4679-01	MH-1	SAM	11/06/24 18:53		Kareem	OK
21	P4659-01	MH-2	SAM	11/06/24 18:57		Kareem	OK
22	P4652-03	RW5-SP301-303-50-2	SAM	11/06/24 19:02		Kareem	OK
23	P4652-04	RW5-SP100-90-2024	SAM	11/06/24 19:06		Kareem	OK
24	P4652-06	RW5-SP301-303-90-2	SAM	11/06/24 19:11		Kareem	OK
25	P4661-03	102324-A	SAM	11/06/24 19:15		Kareem	OK
26	P4680-01	BP-F26	SAM	11/06/24 19:19		Kareem	OK
27	P4680-05	BP-F25	SAM	11/06/24 19:24		Kareem	OK
28	P4680-05DUP	BP-F25DUP	DUP	11/06/24 19:28		Kareem	OK
29	CCV03	CCV03	CCV	11/06/24 19:32		Kareem	OK
30	CCB03	CCB03	CCB	11/06/24 19:36		Kareem	OK
31	P4680-05L	BP-F25L	SD	11/06/24 19:40		Kareem	OK
32	P4680-05MS	BP-F25MS	MS	11/06/24 19:44	0.1ML OF M6010 AND M6001 WERE ADDED TO 10ML OF SAMPLE	Kareem	OK
33	P4680-05MSD	BP-F25MSD	MSD	11/06/24 19:48	0.1ML OF M6010 AND M6001 WERE ADDED TO 10ML OF SAMPLE	Kareem	OK
34	P4680-05A	BP-F25A	PS	11/06/24 19:52	0.1ML OF M6010 AND M6001 WERE ADDED TO 10ML OF SAMPLE	Kareem	OK
35	PB164634BL	PB164634BL	MB	11/06/24 19:56	NOT USE	Kareem	Not Ok

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB133323

Review By	kareem	Review On	11/7/2024 1:15:13 PM
Supervise By	mohan	Supervise On	11/11/2024 12:01:52 AM

STD. NAME	STD REF.#
ICAL Standard	MP83078 MP83079 MP73080 MP83081 MP83082 MP83084
ICV Standard	MP83085
CCV Standard	MP83088
ICSA Standard	MP83086 MP83087
CRI Standard	MP83084
LCS Standard	
Chk Standard	MP83091 MP83092

36	P4662-04DL	102524-DDL	SAM	11/06/24 20:05	Straight 5x Dilution for all elements	Kareem	OK
37	P4673-01	OUTFALL-001	SAM	11/06/24 20:09		Kareem	OK
38	P4673-02	OUTFALL-002	SAM	11/06/24 20:13		Kareem	OK
39	P4673-03	OUTFALL-003	SAM	11/06/24 20:18		Kareem	OK
40	CCV04	CCV04	CCV	11/06/24 20:22		Kareem	OK
41	CCB04	CCB04	CCB	11/06/24 20:26		Kareem	OK
42	P4673-04	OUTFALL-004	SAM	11/06/24 20:31		Kareem	OK
43	P4673-05	OUTFALL-005	SAM	11/06/24 20:35		Kareem	OK
44	P4673-06	OUTFALL-006	SAM	11/06/24 20:39		Kareem	OK
45	P4673-07	OUTFALL-007	SAM	11/06/24 20:44		Kareem	OK
46	P4673-07DUP	OUTFALL-007DUP	DUP	11/06/24 20:48		Kareem	OK
47	P4673-07L	OUTFALL-007L	SD	11/06/24 20:52		Kareem	OK
48	P4673-07MS	OUTFALL-007MS	MS	11/06/24 20:57	0.1ML OF M6010 AND M6001 WERE ADDED TO 10ML OF SAMPLE	Kareem	OK
49	P4673-07MSD	OUTFALL-007MSD	MSD	11/06/24 21:01	0.1ML OF M6010 AND M6001 WERE ADDED TO 10ML OF SAMPLE	Kareem	OK
50	P4673-07A	OUTFALL-007A	PS	11/06/24 21:05	0.1ML OF M6010 AND M6001 WERE ADDED TO 10ML OF SAMPLE	Kareem	OK
51	P4674-01	OUTFALL-001	SAM	11/06/24 21:09		Kareem	OK
52	CCV05	CCV05	CCV	11/06/24 21:13		Kareem	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB133323

Review By	kareem	Review On	11/7/2024 1:15:13 PM
Supervise By	mohan	Supervise On	11/11/2024 12:01:52 AM

STD. NAME	STD REF.#
ICAL Standard	MP83078 MP83079 MP73080 MP83081 MP83082 MP83084
ICV Standard	MP83085
CCV Standard	MP83088
ICSA Standard	MP83086 MP83087
CRI Standard	MP83084
LCS Standard	
Chk Standard	MP83091 MP83092

53	CCB05	CCB05	CCB	11/06/24 21:17		Kareem	OK
54	P4684-03	MECHANIC-ST-OIL-W	SAM	11/06/24 21:22	Fe high & Ag (OverSaturated)	Kareem	Dilution
55	PB164645BL	PB164645BL	MB	11/06/24 21:26	NOT USE	Kareem	Not Ok
56	PB164645BS	PB164645BS	LCS	11/06/24 21:30	NOT USE - fail for Na	Kareem	Not Ok
57	P4658-01	B-131-1-SB02	SAM	11/06/24 21:34		Kareem	OK
58	P4658-02	B-131-2-SB02	SAM	11/06/24 21:39		Kareem	OK
59	P4658-03	B-131-3-SB02	SAM	11/06/24 21:43		Kareem	OK
60	P4364-15	SB-07-0.167-0.667	SAM	11/06/24 21:47	NOT USE	Kareem	Not Ok
61	P4364-16	SB-08-0.167-0.667	SAM	11/06/24 21:52	NOT USE	Kareem	Not Ok
62	P4364-14	SB-06-0.167-0.667	SAM	11/06/24 21:56		Kareem	OK
63	P4364-14DUP	SB-06-0.167-0.667DU	DUP	11/06/24 22:01		Kareem	OK
64	CCV06	CCV06	CCV	11/06/24 22:11		Kareem	OK
65	CCB06	CCB06	CCB	11/06/24 22:15		Kareem	OK
66	P4364-14L	SB-06-0.167-0.667L	SD	11/06/24 22:19		Kareem	OK
67	P4364-14MS	SB-06-0.167-0.667MS	MS	11/06/24 22:23	0.1ML OF M6010 AND M6001 WERE ADDED TO 10ML OF SAMPLE	Kareem	OK
68	P4364-14MSD	SB-06-0.167-0.667MS	MSD	11/06/24 22:28	0.1ML OF M6010 AND M6001 WERE ADDED TO 10ML OF SAMPLE	Kareem	OK
69	P4364-14A	SB-06-0.167-0.667A	PS	11/06/24 22:33	0.1ML OF M6010 AND M6001 WERE ADDED TO 10ML OF SAMPLE	Kareem	OK

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Supervise By	mohan	Supervise On	11/11/2024 12:01:52 AM

STD. NAME	STD REF.#
ICAL Standard	MP83078 MP83079 MP73080 MP83081 MP83082 MP83084
ICV Standard	MP83085
CCV Standard	MP83088
ICSA Standard	MP83086 MP83087
CRI Standard	MP83084
LCS Standard	
Chk Standard	MP83091 MP83092

70	P4667-01	BP-F-6	SAM	11/06/24 22:38		Kareem	OK
71	P4667-05	BP-F-5	SAM	11/06/24 22:42		Kareem	OK
72	P4667-09	TP-10	SAM	11/06/24 22:46		Kareem	OK
73	P4667-13	BP-F-7	SAM	11/06/24 22:50		Kareem	OK
74	P4675-01	COMP-1	SAM	11/06/24 22:54		Kareem	OK
75	P4675-02	COMP-2	SAM	11/06/24 22:59		Kareem	OK
76	CCV07	CCV07	CCV	11/06/24 23:03		Kareem	OK
77	CCB07	CCB07	CCB	11/06/24 23:07		Kareem	OK
78	P4675-03	COMP-3	SAM	11/06/24 23:12		Kareem	OK
79	P4675-04	COMP-4	SAM	11/06/24 23:16		Kareem	OK
80	P4675-05	COMP-5	SAM	11/06/24 23:20		Kareem	OK
81	P4675-06	COMP-6	SAM	11/06/24 23:25		Kareem	OK
82	P4685-01	OK-01-11012024	SAM	11/06/24 23:29		Kareem	OK
83	P4685-01DUP	OK-01-11012024DUP	DUP	11/06/24 23:33		Kareem	OK
84	P4685-01L	OK-01-11012024L	SD	11/06/24 23:37		Kareem	OK
85	P4685-01MS	OK-01-11012024MS	MS	11/06/24 23:41	0.1ML OF M6010 AND M6001 WERE ADDED TO 10ML OF SAMPLE	Kareem	OK
86	P4685-01MSD	OK-01-11012024MSD	MSD	11/06/24 23:45	0.1ML OF M6010 AND M6001 WERE ADDED TO 10ML OF SAMPLE	Kareem	OK

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CCV Standard	MP83088
ICSA Standard	MP83086 MP83087
CRI Standard	MP83084
LCS Standard	
Chk Standard	MP83091 MP83092

87	P4685-01A	OK-01-11012024A	PS	11/06/24 23:49	0.1ML OF M6010 AND M6001 WERE ADDED TO 10ML OF SAMPLE	Kareem	OK
88	CCV08	CCV08	CCV	11/06/24 23:59		Kareem	OK
89	CCB08	CCB08	CCB	11/07/24 00:03		Kareem	OK
90	P4397-04	WB-301-SW	SAM	11/07/24 00:07	Na (Over Saturated)	Kareem	Dilution
91	P4397-04DUP	WB-301-SWDUP	DUP	11/07/24 00:12	Na (Over Saturated)	Kareem	Dilution
92	P4397-04L	WB-301-SWL	SD	11/07/24 00:16		Kareem	OK
93	P4397-04MS	WB-301-SWMS	MS	11/07/24 00:21	Na (Over Saturated)	Kareem	Dilution
94	P4397-04MSD	WB-301-SWMSD	MSD	11/07/24 00:25	Na (Over Saturated)	Kareem	Dilution
95	P4397-04A	WB-301-SWA	PS	11/07/24 00:29	0.1ML OF M6010 AND M6001 WERE ADDED TO 10ML OF SAMPLE	Kareem	OK
96	PB164647BS	PB164647BS	LCS	11/07/24 00:38	NOT USE	Kareem	Not Ok
97	LR1	LR1	HIGH STD	11/07/24 00:43		Kareem	OK
98	LR2	LR2	HIGH STD	11/07/24 00:48		Kareem	OK
99	CCV09	CCV09	CCV	11/07/24 00:53		Kareem	OK
100	CCB09	CCB09	CCB	11/07/24 00:57		Kareem	OK
101	P4397-04DL	WB-301-SWDL	SAM	11/07/24 01:01	5x for Na	Kareem	Confirms
102	P4397-04DUPDL	WB-301-SWDUPDL	DUP	11/07/24 01:06	5x for Na	Kareem	Confirms
103	P4397-04LDL	WB-301-SWLDL	SD	11/07/24 01:10	Not Required	Kareem	Not Ok
104	P4397-04MSDL	WB-301-SWMSDL	MS	11/07/24 01:15	5x for Na	Kareem	Confirms

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ICV Standard	MP83085
CCV Standard	MP83088
ICSA Standard	MP83086 MP83087
CRI Standard	MP83084
LCS Standard	
Chk Standard	MP83091 MP83092

105	P4397-04MSDDL	WB-301-SWMSDDL	MSD	11/07/24 01:19	5x for Na	Kareem	Confirms
106	P4397-04ADL	WB-301-SWADL	PS	11/07/24 01:24	Not Required	Kareem	Not Ok
107	P4684-03DL	MECHANIC-ST-OIL-W	SAM	11/07/24 01:28	5x for Fe,Ag	Kareem	Confirms
108	P4364-16DL	SB-08-0.167-0.667DL	SAM	11/07/24 01:33	NOT USE	Kareem	Not Ok
109	PB164563BL	PB164563BL	MB	11/07/24 01:37	NOT USE	Kareem	Not Ok
110	PB164563BS	PB164563BS	LCS	11/07/24 01:41	NOT USE - fail for K,Na	Kareem	Not Ok
111	CCV10	CCV10	CCV	11/07/24 01:49		Kareem	OK
112	CCB10	CCB10	CCB	11/07/24 01:53		Kareem	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB133344

Review By	mohan	Review On	11/9/2024 12:07:42 AM
Supervise By	jaswal	Supervise On	11/9/2024 12:08:14 AM

STD. NAME	STD REF.#
ICAL Standard	MP83078,MP83079,MP73080,MP83081,MP83082,MP83084
ICV Standard	MP83085
CCV Standard	MP83088
ICSA Standard	MP83086,MP83087
CRI Standard	MP83084
LCS Standard	
Chk Standard	MP83091,MP83092

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	11/07/24 13:23		Kareem	OK
2	S1	S1	CAL2	11/07/24 13:28		Kareem	OK
3	S2	S2	CAL3	11/07/24 13:32		Kareem	OK
4	S3	S3	CAL4	11/07/24 13:36		Kareem	OK
5	S4	S4	CAL5	11/07/24 13:40		Kareem	OK
6	S5	S5	CAL6	11/07/24 13:45		Kareem	OK
7	ICV01	ICV01	ICV	11/07/24 13:49		Kareem	OK
8	LLICV01	LLICV01	LLICV	11/07/24 14:23		Kareem	OK
9	ICB01	ICB01	ICB	11/07/24 14:38		Kareem	OK
10	CRI01	CRI01	CRDL	11/07/24 14:42		Kareem	OK
11	ICSA01	ICSA01	ICSA	11/07/24 14:47		Kareem	OK
12	ICSAB01	ICSAB01	ICSAB	11/07/24 14:51		Kareem	OK
13	CCV01	CCV01	CCV	11/07/24 15:01		Kareem	OK
14	CCB01	CCB01	CCB	11/07/24 15:05		Kareem	OK
15	P4645-04	Z-02-WC	SAM	11/07/24 15:09		Kareem	OK
16	P4659-04	MH-2	SAM	11/07/24 15:14		Kareem	OK
17	P4660-03	WC-TA2-01-C	SAM	11/07/24 15:18		Kareem	OK
18	P4660-07	WC-WOOD-01-C	SAM	11/07/24 15:22		Kareem	OK

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Supervise By	jaswal	Supervise On	11/9/2024 12:08:14 AM

STD. NAME	STD REF.#
ICAL Standard	MP83078,MP83079,MP73080,MP83081,MP83082,MP83084
ICV Standard	MP83085
CCV Standard	MP83088
ICSA Standard	MP83086,MP83087
CRI Standard	MP83084
LCS Standard	
Chk Standard	MP83091,MP83092

19	P4660-11	WC-CONCRETE-01-(	SAM	11/07/24 15:27		Kareem	OK
20	P4667-04	BP-F-6	SAM	11/07/24 15:31		Kareem	OK
21	P4667-08	BP-F-5	SAM	11/07/24 15:36		Kareem	OK
22	P4667-12	TP-10	SAM	11/07/24 15:40		Kareem	OK
23	P4667-16	BP-F-7	SAM	11/07/24 15:45		Kareem	OK
24	P4679-04	MH-1	SAM	11/07/24 15:49		Kareem	OK
25	CCV02	CCV02	CCV	11/07/24 15:53		Kareem	OK
26	CCB02	CCB02	CCB	11/07/24 15:58		Kareem	OK
27	P4680-04	BP-F26	SAM	11/07/24 16:02		Kareem	OK
28	P4680-08	BP-F25	SAM	11/07/24 16:06		Kareem	OK
29	P4684-01	MECHANIC-ST-SWEI	SAM	11/07/24 16:11		Kareem	OK
30	P4684-01DUP	MECHANIC-ST-SWEI	DUP	11/07/24 16:15		Kareem	OK
31	P4684-01L	MECHANIC-ST-SWEI	SD	11/07/24 16:20		Kareem	OK
32	P4684-01MS	MECHANIC-ST-SWEI	MS	11/07/24 16:24		Kareem	OK
33	P4684-01MSD	MECHANIC-ST-SWEI	MSD	11/07/24 16:28		Kareem	OK
34	P4684-01A	MECHANIC-ST-SWEI	PS	11/07/24 16:32		Kareem	OK
35	PB164560TB	PB164560TB	MB	11/07/24 16:36		Kareem	OK
36	PB164665BL	PB164665BL	MB	11/07/24 16:41		Kareem	OK
37	CCV03	CCV03	CCV	11/07/24 16:45		Kareem	OK
38	CCB03	CCB03	CCB	11/07/24 16:49		Kareem	OK

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Supervise By	jaswal	Supervise On	11/9/2024 12:08:14 AM

STD. NAME	STD REF.#
ICAL Standard	MP83078,MP83079,MP73080,MP83081,MP83082,MP83084
ICV Standard	MP83085
CCV Standard	MP83088
ICSA Standard	MP83086,MP83087
CRI Standard	MP83084
LCS Standard	
Chk Standard	MP83091,MP83092

39	PB164665BS	PB164665BS	LCS	11/07/24 16:54		Kareem	OK
40	P4693-04	BP-G5-WC	SAM	11/07/24 16:58		Kareem	OK
41	P4693-08	BP-G4-WC	SAM	11/07/24 17:02		Kareem	OK
42	P4694-04	Z-03A	SAM	11/07/24 17:06		Kareem	OK
43	P4694-08	Z-04	SAM	11/07/24 17:11		Kareem	OK
44	P4695-04	Z-01	SAM	11/07/24 17:15		Kareem	OK
45	P4700-04	MH-8	SAM	11/07/24 17:20		Kareem	OK
46	P4701-01	BP-F3	SAM	11/07/24 17:24		Kareem	OK
47	P4701-08	BP-F4	SAM	11/07/24 17:29		Kareem	OK
48	P4711-05	CF-613-COMP-16	SAM	11/07/24 17:33		Kareem	OK
49	CCV04	CCV04	CCV	11/07/24 17:56		Kareem	OK
50	CCB04	CCB04	CCB	11/07/24 18:04		Kareem	OK
51	P4711-10	CF-613-COMP-17	SAM	11/07/24 18:08		Kareem	OK
52	P4702-01	TOTE-1	SAM	11/07/24 18:13		Kareem	OK
53	P4662-06DL2	102524-DDL2	SAM	11/07/24 18:17	NOT USE	Kareem	Not Ok
54	P4662-06DL	102524-DDL	SAM	11/07/24 18:22	NOT USE	Kareem	Not Ok
55	P4662-06	102524-D	SAM	11/07/24 18:28		Kareem	OK
56	CCV05	CCV05	CCV	11/07/24 18:32		Kareem	OK
57	CCB05	CCB05	CCB	11/07/24 18:37		Kareem	OK
58	P4702-01DUP	TOTE-1DUP	DUP	11/07/24 18:43		Kareem	OK

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ICV Standard	MP83085
CCV Standard	MP83088
ICSA Standard	MP83086,MP83087
CRI Standard	MP83084
LCS Standard	
Chk Standard	MP83091,MP83092

59	P4702-01L	TOTE-1L	SD	11/07/24 18:47		Kareem	OK
60	P4706-01	TR-04-110424	SAM	11/07/24 18:51		Kareem	OK
61	P4708-01	OR-02-110424	SAM	11/07/24 18:56		Kareem	OK
62	P4711-01	CF-613-COMP-16	SAM	11/07/24 19:00		Kareem	OK
63	P4711-06	CF-613-COMP-17	SAM	11/07/24 19:04		Kareem	OK
64	CCV06	CCV06	CCV	11/07/24 19:08		Kareem	OK
65	CCB06	CCB06	CCB	11/07/24 19:12		Kareem	OK
66	P4702-01MS	TOTE-1MS	MS	11/07/24 19:16		Kareem	OK
67	P4702-01MSD	TOTE-1MSD	MSD	11/07/24 19:20		Kareem	OK
68	P4702-01A	TOTE-1A	PS	11/07/24 19:24		Kareem	OK
69	PB164662TB	PB164662TB	MB	11/07/24 19:28		Kareem	OK
70	PB164685TB	PB164685TB	MB	11/07/24 19:32		Kareem	OK
71	PB164712BL	PB164712BL	MB	11/07/24 19:37		Kareem	OK
72	PB164712BS	PB164712BS	LCS	11/07/24 19:41		Kareem	OK
73	P4720-01	JC-701-COMP-01	SAM	11/07/24 19:45		Kareem	OK
74	P4720-01DUP	JC-701-COMP-01DUP	DUP	11/07/24 19:50		Kareem	OK
75	P4720-01L	JC-701-COMP-01L	SD	11/07/24 19:54		Kareem	OK
76	CCV07	CCV07	CCV	11/07/24 19:58		Kareem	OK
77	CCB07	CCB07	CCB	11/07/24 20:02		Kareem	OK
78	P4617-04	CONCRETE-PILE	SAM	11/07/24 20:08		Kareem	OK

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CCV Standard	MP83088
ICSA Standard	MP83086,MP83087
CRI Standard	MP83084
LCS Standard	
Chk Standard	MP83091,MP83092

79	P4617-04DUP	CONCRETE-PILEDUI	DUP	11/07/24 20:12		Kareem	OK
80	P4617-04L	CONCRETE-PILEL	SD	11/07/24 20:17		Kareem	OK
81	P4617-04MS	CONCRETE-PILEMS	MS	11/07/24 20:21		Kareem	OK
82	P4617-04MSD	CONCRETE-PILEMS	MSD	11/07/24 20:25		Kareem	OK
83	P4549-04	TT-069-IDWGW-2024	SAM	11/07/24 20:34		Kareem	OK
84	P4617-04A	CONCRETE-PILEA	PS	11/07/24 20:41		Kareem	OK
85	P4549-04DUP	TT-069-IDWGW-2024	DUP	11/07/24 20:45		Kareem	OK
86	P4549-04L	TT-069-IDWGW-2024	SD	11/07/24 20:49		Kareem	OK
87	P4549-04MS	TT-069-IDWGW-2024	MS	11/07/24 20:54		Kareem	OK
88	CCV08	CCV08	CCV	11/07/24 20:58		Kareem	OK
89	CCB08	CCB08	CCB	11/07/24 21:02		Kareem	OK
90	P4549-04MSD	TT-069-IDWGW-2024	MSD	11/07/24 21:08		Kareem	OK
91	P4549-04A	TT-069-IDWGW-2024	PS	11/07/24 21:12		Kareem	OK
92	P4720-01MS	JC-701-COMP-01MS	MS	11/07/24 21:16		Kareem	OK
93	P4720-01MSD	JC-701-COMP-01MSI	MSD	11/07/24 21:20		Kareem	OK
94	P4720-01A	JC-701-COMP-01A	PS	11/07/24 21:24		Kareem	OK
95	P4722-03	WC-1(0-6)	SAM	11/07/24 21:29	Fe high	Kareem	Dilution
96	P4722-08	WC-2(0-6)	SAM	11/07/24 21:33		Kareem	OK
97	P4722-13	WC-3(0-6)	SAM	11/07/24 21:38		Kareem	OK
98	PB164723BL	PB164723BL	MB	11/07/24 21:42		Kareem	OK

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Supervise By	jaswal	Supervise On	11/9/2024 12:08:14 AM

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ICV Standard	MP83085
CCV Standard	MP83088
ICSA Standard	MP83086,MP83087
CRI Standard	MP83084
LCS Standard	
Chk Standard	MP83091,MP83092

99	PB164723BS	PB164723BS	LCS	11/07/24 21:47		Kareem	OK
100	CCV09	CCV09	CCV	11/07/24 21:51		Kareem	OK
101	CCB09	CCB09	CCB	11/07/24 21:55		Kareem	OK
102	P4693-01	BP-G5-WC	SAM	11/07/24 22:09		Kareem	OK
103	P4693-05	BP-G4-WC	SAM	11/07/24 22:13		Kareem	OK
104	P4694-01	Z-03A	SAM	11/07/24 22:17		Kareem	OK
105	P4694-05	Z-04	SAM	11/07/24 22:22		Kareem	OK
106	P4695-01	Z-01	SAM	11/07/24 22:26		Kareem	OK
107	P4697-01	TP-1	SAM	11/07/24 22:30		Kareem	OK
108	P4699-01	MIXED-DEMO	SAM	11/07/24 22:34		Kareem	OK
109	P4699-01DUP	MIXED-DEMODUP	DUP	11/07/24 22:39		Kareem	OK
110	P4699-01L	MIXED-DEMOL	SD	11/07/24 22:43		Kareem	OK
111	P4699-01MS	MIXED-DEMOMS	MS	11/07/24 22:47		Kareem	OK
112	CCV10	CCV10	CCV	11/07/24 22:52		Kareem	OK
113	CCB10	CCB10	CCB	11/07/24 22:56		Kareem	OK
114	P4699-01MSD	MIXED-DEMOMSD	MSD	11/07/24 23:00		Kareem	OK
115	P4699-01A	MIXED-DEMOA	PS	11/07/24 23:04		Kareem	OK
116	P4700-01	MH-8	SAM	11/07/24 23:09		Kareem	OK
117	P4701-01RE	BP-F3RE	SAM	11/07/24 23:13	NOT USE	Kareem	Not Ok
118	P4701-05	BP-F4	SAM	11/07/24 23:17		Kareem	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB133344

Review By	mohan	Review On	11/9/2024 12:07:42 AM
Supervise By	jaswal	Supervise On	11/9/2024 12:08:14 AM

STD. NAME	STD REF.#
ICAL Standard	MP83078,MP83079,MP73080,MP83081,MP83082,MP83084
ICV Standard	MP83085
CCV Standard	MP83088
ICSA Standard	MP83086,MP83087
CRI Standard	MP83084
LCS Standard	
Chk Standard	MP83091,MP83092

119	P4707-01	HD-02-110424	SAM	11/07/24 23:22		Kareem	OK
120	P4718-01	WB-307-SB01	SAM	11/07/24 23:26		Kareem	OK
121	P4718-02	WB-307-SB02	SAM	11/07/24 23:30		Kareem	OK
122	P4719-01	BAYAVE-STOCKPILE	SAM	11/07/24 23:34		Kareem	OK
123	PB164708BL	PB164708BL	MB	11/07/24 23:38		Kareem	OK
124	CCV11	CCV11	CCV	11/07/24 23:43		Kareem	OK
125	CCB11	CCB11	CCB	11/07/24 23:47		Kareem	OK
126	PB164708BS	PB164708BS	LCS	11/07/24 23:51		Kareem	OK
127	PB164563BL	PB164563BL	MB	11/07/24 23:55		Kareem	OK
128	PB164563BS	PB164563BS	LCS	11/08/24 00:05		Kareem	OK
129	PB164634BL	PB164634BL	MB	11/08/24 00:08		Kareem	OK
130	PB164634BS	PB164634BS	LCS	11/08/24 00:13		Kareem	OK
131	PB164647BL	PB164647BL	MB	11/08/24 00:17		Kareem	OK
132	PB164647BS	PB164647BS	LCS	11/08/24 00:21		Kareem	OK
133	P4722-03DL	WC-1(0-6)DL	SAM	11/08/24 00:26	5x for Fe	Kareem	Confirms
134	LR1	LR1	HIGH STD	11/08/24 00:30		Kareem	OK
135	LR2	LR2	HIGH STD	11/08/24 00:35		Kareem	OK
136	CCV12	CCV12	CCV	11/08/24 00:39		Kareem	OK
137	CCB12	CCB12	CCB	11/08/24 00:43		Kareem	OK
138	P4701-01DL	BP-F3DL	SAM	11/08/24 00:48	NOT USE	Kareem	Not Ok

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB133344

Review By	mohan	Review On	11/9/2024 12:07:42 AM
Supervise By	jaswal	Supervise On	11/9/2024 12:08:14 AM

STD. NAME	STD REF.#
ICAL Standard	MP83078,MP83079,MP73080,MP83081,MP83082,MP83084
ICV Standard	MP83085
CCV Standard	MP83088
ICSA Standard	MP83086,MP83087
CRI Standard	MP83084
LCS Standard	
Chk Standard	MP83091,MP83092

139	CCV13	CCV13	CCV	11/08/24 00:57		Kareem	OK
140	CCB13	CCB13	CCB	11/08/24 01:01		Kareem	OK

Alliance TECHNICAL GROUP

Soil/Sludge Metals Preparation Sheet

PB164634

SOP ID : M3050B-Digestion-20

SDG No : N/A

Matrix : SOIL

Pippete ID: ICP A

Balance ID : M SC-2

Filter paper ID : N/A

pH Strip ID : M6069

Hood ID : #3

Block ID: 1. HOT BLOCK #2 2. N/A

Start Digest Date: 11/03/2024 **Time :** 15:00 **Temp :** 96 °C

End Digest Date: 11/03/2024 **Time :** 17:10 **Temp :** 96 °C

Digestion tube ID: M6054

Block thermometer ID: MET-DIG. #2

Dig Technician Signature: JSP

Supervisor Signature:

Temp : 1. 96°C 2. N/A

Standared Name	MLS USED	STD REF. # FROM LOG
LFS-1	1.00	M6000
LFS-2	1.00	M6009
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
1:1 HNO3	10.00	MP81119
CONC: HNO3	5.00	MP82127
30% H2O2	3.00	M5634
CONC: HCL	10.00	M6095
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

HOT BLOCK #2 Cell #34 : 96 C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
11/3/24 17:20	JSP / Met dig	Metals Lab
	Preparation Group	Analysis Group

Lab Sample ID	Client Sample ID	pH	Initial Weight (g)	Final Vol (ml)	Color Before	Color After	Texture	Artifact	Comment	Prep Pos
P4658-01	B-131-1-SB02	N/A	2.37	100	Brown	Yellow	Medium	N/A	N/A	1
P4658-02	B-131-2-SB02	N/A	2.47	100	Brown	Yellow	Medium	N/A	N/A	2
P4658-03	B-131-3-SB02	N/A	2.20	100	Brown	Yellow	Medium	N/A	N/A	3
P4659-01	MH-2	N/A	2.15	100	Brown	Yellow	Medium	N/A	N/A	4
P4663-02	TENNANT-PAD-2-3-STOCKPILE	N/A	2.13	100	Brown	Yellow	Medium	N/A	N/A	5
P4663-04	RES-BUILDING-PAD-NO-11	N/A	2.19	100	Brown	Yellow	Medium	N/A	N/A	6
P4663-06	RES-BUILDING-PAD-NO-3	N/A	2.49	100	Brown	Yellow	Medium	N/A	N/A	7
P4663-08	RES-BUILDING-PAD-NO-2	N/A	2.42	100	Brown	Yellow	Medium	N/A	N/A	8
P4677-01	2410-6346	N/A	2.18	100	Brown	Yellow	Medium	N/A	N/A	9
P4679-01	MH-1	N/A	2.42	100	Brown	Yellow	Medium	N/A	N/A	10
P4680-01	BP-F26	N/A	2.47	100	Brown	Yellow	Medium	N/A	N/A	11
P4680-05	BP-F25	N/A	2.20	100	Brown	Yellow	Medium	N/A	N/A	12
P4680-05DUP	BP-F25DUP	N/A	2.36	100	Brown	Yellow	Medium	N/A	N/A	13
P4680-05MS	BP-F25MS	N/A	2.42	100	Brown	Yellow	Medium	N/A	M6000,M6009	14
P4680-05MSD	BP-F25MSD	N/A	2.05	100	Brown	Yellow	Medium	N/A	M6000,M6009	15
PB164634BL	PBS634	N/A	2.10	100	Colorless	Colorless	Fine	N/A	N/A	16
PB164634BS	LCS634	N/A	2.10	100	Colorless	Colorless	Fine	N/A	M6000,M6009	17

Alliance TECHNICAL GROUP

Soil/Sludge Mercury Preparation Sheet

PB164668

SOP ID : M7471B-Mercury-18

SDG No : NA

Matrix : SOIL

Pippete ID: HG A

Balance ID : M SC-3

Filter paper ID : NA

pH Strip ID : NA

Hood ID : #1

Block ID: 1. HG HOT BLOCK#3 2. N/A

Start Digest Date: 11/04/2024 **Time :** 09:45 **Temp :** 94 °C

End Digest Date: 11/04/2024 **Time :** 10:15 **Temp :** 93 °C

Digestion tube ID: M5595

Block thermometer ID: HG-DIG#3

Dig Technician Signature: MB

Supervisor Signature: 12

Temp : 1. 94°C 2. N/A

Standared Name	MLS USED	STD REF. # FROM LOG
ICV	30mL	MP83023
CCV	30mL	MP83025
CRA	30mL	MP83027
Blank Spike	0.48mL	MP83015
Matrix Spike	0.48mL	MP83015

Chemical Used	ML/SAMPLE USED	Lot Number
AQUA REGIA	1.5mL	MP83029
KMnO4 (5%)	4.5mL	MP82652
Hydroxylamine HCL (12%)	2.0mL	MP82654
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	MP83017
0.05 ppb	S0.05	N/A	N/A
0.2 ppb	S0.2	30mL	MP83018
2.5 ppb	S2.5	30mL	MP83019
5.0 ppb	S5.0	30mL	MP83020
7.5 ppb	S7.5	30mL	MP83021
10.0 ppb	S10.0	30mL	MP83022
ICV	ICV	30mL	MP83023
ICB	ICB	30mL	MP83024
CCV	CCV	30mL	MP83025
CCB	CCB	30mL	MP83026
CRI	CRI	30mL	MP83027
CHK STD	CHK STD	N/A	MP83028

Extraction Conformance/Non-Conformance Comments:

N/A

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
10/4/24 @ 16:40	MB · DIG · Lab	MB · Metal Lab
	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

Soil/Sludge Mercury Preparation Sheet

PB164668

Lab Sample ID	Client Sample ID	Initial Weight (g)	Final Vol (ml)	pH	Comment	Prep Pos
P4663-02	TENNANT-PAD-2-3-STOCKPILE	0.56	35	NA	N/A	3-1
P4663-02DUP	TENNANT-PAD-2-3-STOCKPILEDUP	0.55	35	NA	N/A	2
P4663-02MS	TENNANT-PAD-2-3-STOCKPILEMS	0.59	35	NA	MP83015	3
P4663-02MSD	TENNANT-PAD-2-3-STOCKPILEMSD	0.55	35	NA	MP83015	4
P4663-04	RES-BUILDING-PAD-NO-11	0.50	35	NA	N/A	5
P4663-06	RES-BUILDING-PAD-NO-3	0.59	35	NA	N/A	6
P4663-08	RES-BUILDING-PAD-NO-2	0.56	35	NA	N/A	7
P4667-01	BP-F-6	0.54	35	NA	N/A	8
P4667-05	BP-F-5	0.54	35	NA	N/A	9
P4667-09	BP-F-10	0.55	35	NA	N/A	10
P4667-13	BP-F-7	0.60	35	NA	N/A	11
P4675-01	COMP-1	0.55	35	NA	N/A	12
P4675-02	COMP-2	0.52	35	NA	N/A	13
P4675-03	COMP-3	0.56	35	NA	N/A	14
P4675-04	COMP-4	0.51	35	NA	N/A	15
P4675-05	COMP-5	0.54	35	NA	N/A	16
P4675-06	COMP-6	0.52	35	NA	N/A	17
P4679-01	MH-1	0.54	35	NA	N/A	18
P4680-01	BP-F26	0.59	35	NA	N/A	19
P4680-05	BP-F25	0.56	35	NA	N/A	20
PB164668BL	PBS668	0.56	35	NA	N/A	21
PB164668BS	LCS668	0.52	35	NA	MP83015	22

SAMPLE DATA

Alliance TECHNICAL GROUP
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Fax : 908 789 8922

Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	10/31/24 12:50
Project:	Rt. 10 Whippany	Date Received:	10/31/24
Client Sample ID:	TENNANT-PAD-2-3-STOCKPILE	SDG No.:	P4663
Lab Sample ID:	P4663-02	Matrix:	SOIL
		% Solid:	90.9

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.
Cyanide	0.33		1	0.047	0.27	mg/Kg	11/01/24 14:00	11/04/24 12:09	9012B
Hexavalent Chromium	0.086	U	1	0.086	0.43	mg/Kg	11/04/24 11:00	11/04/24 14:54	7196A
Trivalent Chromium	16.2		1	0.55	0.55	mg/Kg		11/04/24 20:12	6010D

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements
H = Sample Analysis Out Of Hold Time
J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

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Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	10/31/24 13:04
Project:	Rt. 10 Whippany	Date Received:	10/31/24
Client Sample ID:	RES-BUILDING-PAD-NO-11	SDG No.:	P4663
Lab Sample ID:	P4663-04	Matrix:	SOIL
		% Solid:	91.7

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.
Cyanide	0.39		1	0.046	0.26	mg/Kg	11/01/24 14:00	11/04/24 12:09	9012B
Hexavalent Chromium	0.086	U	1	0.086	0.43	mg/Kg	11/04/24 11:00	11/04/24 14:55	7196A
Trivalent Chromium	17.5		1	0.55	0.55	mg/Kg		11/04/24 20:17	6010D

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements
H = Sample Analysis Out Of Hold Time

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

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Fax : 908 789 8922

Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	10/31/24 13:26
Project:	Rt. 10 Whippany	Date Received:	10/31/24
Client Sample ID:	RES-BUILDING-PAD-NO-3	SDG No.:	P4663
Lab Sample ID:	P4663-06	Matrix:	SOIL
		% Solid:	91.2

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.
Cyanide	0.29		1	0.048	0.27	mg/Kg	11/01/24 14:00	11/04/24 12:09	9012B
Hexavalent Chromium	0.086	U	1	0.086	0.44	mg/Kg	11/04/24 11:00	11/04/24 14:56	7196A
Trivalent Chromium	12.9		1	0.55	0.55	mg/Kg		11/04/24 20:21	6010D

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements
H = Sample Analysis Out Of Hold Time
J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

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Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	10/31/24 13:39
Project:	Rt. 10 Whippany	Date Received:	10/31/24
Client Sample ID:	RES-BUILDING-PAD-NO-2	SDG No.:	P4663
Lab Sample ID:	P4663-08	Matrix:	SOIL
		% Solid:	91.3

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.
Cyanide	0.18	J	1	0.047	0.27	mg/Kg	11/01/24 14:00	11/04/24 12:14	9012B
Hexavalent Chromium	0.086	U	1	0.086	0.43	mg/Kg	11/04/24 11:00	11/04/24 14:57	7196A
Trivalent Chromium	13.8		1	0.55	0.55	mg/Kg		11/04/24 20:25	6010D

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements
H = Sample Analysis Out Of Hold Time
J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

QC RESULT SUMMARY

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Initial and Continuing Calibration Verification

Client: Union Paving & Construction Company **SDG No.:** P4663

Project: Rt. 10 Whippany **RunNo.:** LB133276

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: ICV						
Hexavalent Chromium	mg/L	0.501	0.5	100	90-110	11/04/2024
Sample ID: CCV1						
Hexavalent Chromium	mg/L	0.503	0.5	101	90-110	11/04/2024
Sample ID: CCV2						
Hexavalent Chromium	mg/L	0.501	0.5	100	90-110	11/04/2024
Sample ID: CCV3						
Hexavalent Chromium	mg/L	0.501	0.5	100	90-110	11/04/2024
Sample ID: CCV4						
Hexavalent Chromium	mg/L	0.503	0.5	101	90-110	11/04/2024

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Initial and Continuing Calibration Verification

Client:	Union Paving & Construction Company	**SDG No.:**	P4663
Project:	Rt. 10 Whippany	**RunNo.:**	LB133277

Analyte		Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID:	**ICV1**						
Cyanide		mg/L	0.096	0.099	97	90-110	11/04/2024
Sample ID:	**CCV1**						
Cyanide		mg/L	0.24	0.25	96	90-110	11/04/2024
Sample ID:	**CCV2**						
Cyanide		mg/L	0.25	0.25	100	90-110	11/04/2024
Sample ID:	**CCV3**						
Cyanide		mg/L	0.25	0.25	100	90-110	11/04/2024

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Initial and Continuing Calibration Blank Summary

Client: Union Paving & Construction Company **SDG No.:** P4663

Project: Rt. 10 Whippany **RunNo.:** LB133276

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: ICB							
Hexavalent Chromium	mg/L	< 0.0050	0.0050	U	0.0027	0.01	11/04/2024
Sample ID: CCB1							
Hexavalent Chromium	mg/L	< 0.0050	0.0050	U	0.0027	0.01	11/04/2024
Sample ID: CCB2							
Hexavalent Chromium	mg/L	< 0.0050	0.0050	U	0.0027	0.01	11/04/2024
Sample ID: CCB3							
Hexavalent Chromium	mg/L	< 0.0050	0.0050	U	0.0027	0.01	11/04/2024
Sample ID: CCB4							
Hexavalent Chromium	mg/L	< 0.0050	0.0050	U	0.0027	0.01	11/04/2024

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Initial and Continuing Calibration Blank Summary

Client:	Union Paving & Construction Company	**SDG No.:**	P4663
Project:	Rt. 10 Whippany	**RunNo.:**	LB133277

Analyte		Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID:	ICB1							
Cyanide		mg/L	< 0.0025	0.0025	U	0.00099	0.005	11/04/2024
Sample ID:	CCB1							
Cyanide		mg/L	0.0017	0.0025	J	0.00099	0.005	11/04/2024
Sample ID:	CCB2							
Cyanide		mg/L	0.0011	0.0025	J	0.00099	0.005	11/04/2024
Sample ID:	CCB3							
Cyanide		mg/L	< 0.0025	0.0025	U	0.00099	0.005	11/04/2024

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Preparation Blank Summary

Client: Union Paving & Construction Company **SDG No.:** P4663

Project: Rt. 10 Whippany

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: PB164606BL							
Hexavalent Chromium	mg/Kg	< 0.2000	0.2000	U	0.079	0.4	11/04/2024
Sample ID: PB164654BL							
Cyanide	mg/Kg	< 0.1250	0.1250	U	0.044	0.25	11/04/2024

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Matrix Spike Summary

Client: Union Paving & Construction Company
SDG No.: P4663
Project: Rt. 10 Whippany
Sample ID: P4663-02
Client ID: TENNANT-PAD-2-3-STOCKPILEMS
Percent Solids for Spike Sample: 90.9

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Cyanide	mg/Kg	75-125	2.30		0.33		2.2	1	90		11/04/2024

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Matrix Spike Summary

Client: Union Paving & Construction Company
SDG No.: P4663
Project: Rt. 10 Whippany
Sample ID: P4663-02
Client ID: TENNANT-PAD-2-3-STOCKPILEMSD
Percent Solids for Spike Sample: 90.9

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Cyanide	mg/Kg	75-125	2.20		0.33		2.2	1	85		11/04/2024

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Matrix Spike Summary

Client: Union Paving & Construction Company
SDG No.: P4663
Project: Rt. 10 Whippany
Sample ID: P4675-06
Client ID: COMP-6MS
Percent Solids for Spike Sample: 81.3

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Hexavalent Chromium	mg/Kg	75-125	1580		0.15	J	1580	40	100		11/04/2024

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

Matrix Spike Summary

Client: Union Paving & Construction Company
SDG No.: P4663
Project: Rt. 10 Whippany
Sample ID: P4675-06
Client ID: COMP-6MS
Percent Solids for Spike Sample: 81.3

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Hexavalent Chromium	mg/Kg	85-115	48.9		0.15	J	49.2	2	99		11/04/2024

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Fax : 908 789 8922

Matrix Spike Summary

Client: Union Paving & Construction Company
SDG No.: P4663
Project: Rt. 10 Whippany
Sample ID: P4675-06
Client ID: COMP-6MS
Percent Solids for Spike Sample: 81.3

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Hexavalent Chromium	mg/Kg	75-125	39.1		0.15	J	49.2	2	79		11/04/2024

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Duplicate Sample Summary

Client: Union Paving & Construction Company
SDG No.: P4663
Project: Rt. 10 Whippany
Sample ID: P4663-02
Client ID: TENNANT-PAD-2-3-STOCKPILEDUP
Percent Solids for Spike Sample: 90.9

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
Cyanide	mg/Kg	+/-20	0.33		0.35		1	6		11/04/2024

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Duplicate Sample Summary

Client: Union Paving & Construction Company
SDG No.: P4663
Project: Rt. 10 Whippany
Sample ID: P4663-02
Client ID: TENNANT-PAD-2-3-STOCKPILEMSD
Percent Solids for Spike Sample: 90.9

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
Cyanide	mg/Kg	+/-20	2.30		2.20		1	4		11/04/2024

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Fax : 908 789 8922

Duplicate Sample Summary

Client: Union Paving & Construction Company
SDG No.: P4663
Project: Rt. 10 Whippany
Sample ID: P4675-06
Client ID: COMP-6DUP
Percent Solids for Spike Sample: 81.3

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
Hexavalent Chromium	mg/Kg	+/-20	0.15	J	0.15	J	1	0		11/04/2024

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Fax : 908 789 8922

Laboratory Control Sample Summary

Client:	Union Paving & Construction Company	**SDG No.:**	P4663
Project:	Rt. 10 Whippany	**Run No.:**	LB133276

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID PB164606BS								
Hexavalent Chromium	mg/Kg	20	20.0		100	1	84-110	11/04/2024

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Fax : 908 789 8922

Laboratory Control Sample Summary

Client:	Union Paving & Construction Company	**SDG No.:**	P4663
Project:	Rt. 10 Whippany	**Run No.:**	LB133277

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID **PB164654BS**								
Cyanide	mg/Kg	5	4.80		96	1	85-115	11/04/2024

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Fax : 908 789 8922

Instrument ID: SPECTROPHOTOMETER-1

Daily Analysis Runlog For Sequence/QCBatch ID # LB133276

Review By	rubina	Review On	11/4/2024 4:34:49 PM
Supervise By	Iwona	Supervise On	11/4/2024 4:44:32 PM
SubDirectory	LB133276	Test	Hexavalent Chromium

STD. NAME	STD REF.#
ICAL Standard	N/A
ICV Standard	N/A
CCV Standard	N/A
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	N/A
Chk Standard	WP110515,WP110380,WP110381,WP108645

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	CAL1	CAL1	CAL	11/04/24 14:40		rubina	OK
2	CAL2	CAL2	CAL	11/04/24 14:41		rubina	OK
3	CAL3	CAL3	CAL	11/04/24 14:42		rubina	OK
4	CAL4	CAL4	CAL	11/04/24 14:43		rubina	OK
5	CAL5	CAL5	CAL	11/04/24 14:44		rubina	OK
6	CAL6	CAL6	CAL	11/04/24 14:45		rubina	OK
7	CAL7	CAL7	CAL	11/04/24 14:46		rubina	OK
8	ICV	ICV	ICV	11/04/24 14:47		rubina	OK
9	ICB	ICB	ICB	11/04/24 14:48		rubina	OK
10	CCV1	CCV1	CCV	11/04/24 14:49		rubina	OK
11	CCB1	CCB1	CCB	11/04/24 14:50		rubina	OK
12	RL Check	RL Check	SAM	11/04/24 14:51		rubina	OK
13	PB164606BL	PB164606BL	MB	11/04/24 14:52		rubina	OK
14	PB164606BS	PB164606BS	LCS	11/04/24 14:53		rubina	OK
15	P4663-02	TENNANT-PAD-2-3-S	SAM	11/04/24 14:54		rubina	OK
16	P4663-04	RES-BUILDING-PAD-	SAM	11/04/24 14:55		rubina	OK
17	P4663-06	RES-BUILDING-PAD-	SAM	11/04/24 14:56		rubina	OK
18	P4663-08	RES-BUILDING-PAD-	SAM	11/04/24 14:57		rubina	OK

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Fax : 908 789 8922

Instrument ID: SPECTROPHOTOMETER-1

Daily Analysis Runlog For Sequence/QCBatch ID # LB133276

Review By	rubina	Review On	11/4/2024 4:34:49 PM
Supervise By	Iwona	Supervise On	11/4/2024 4:44:32 PM
SubDirectory	LB133276	Test	Hexavalent Chromium

STD. NAME	STD REF.#
ICAL Standard	N/A
ICV Standard	N/A
CCV Standard	N/A
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	N/A
Chk Standard	WP110515,WP110380,WP110381,WP108645

19	P4667-01	BP-F-6	SAM	11/04/24 14:58		rubina	OK
20	P4667-05	BP-F-5	SAM	11/04/24 14:59		rubina	OK
21	P4667-09	BP-F-10	SAM	11/04/24 15:00		rubina	OK
22	P4667-13	BP-F-7	SAM	11/04/24 15:01		rubina	OK
23	CCV2	CCV2	CCV	11/04/24 15:02		rubina	OK
24	CCB2	CCB2	CCB	11/04/24 15:03		rubina	OK
25	P4675-01	COMP-1	SAM	11/04/24 15:04		rubina	OK
26	P4675-02	COMP-2	SAM	11/04/24 15:05		rubina	OK
27	P4675-03	COMP-3	SAM	11/04/24 15:06		rubina	OK
28	P4675-04	COMP-4	SAM	11/04/24 15:07		rubina	OK
29	P4675-05	COMP-5	SAM	11/04/24 15:08		rubina	OK
30	P4675-06	COMP-6	SAM	11/04/24 15:09		rubina	OK
31	P4675-06DUP	COMP-6DUP	DUP	11/04/24 15:10		rubina	OK
32	P4675-06MSPre	COMP-6MS	MS	11/04/24 15:11		rubina	OK
33	P4675-06MS2Ins	COMP-6MS	MS	11/04/24 15:12		rubina	OK
34	P4675-06MS3Post	COMP-6MS	MS	11/04/24 15:13		rubina	OK
35	CCV3	CCV3	CCV	11/04/24 15:14		rubina	OK
36	CCB3	CCB3	CCB	11/04/24 15:15		rubina	OK
37	P4679-01	MH-1	SAM	11/04/24 15:16		rubina	OK
38	P4680-01	BP-F26	SAM	11/04/24 15:17		rubina	OK

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Fax : 908 789 8922

Instrument ID: SPECTROPHOTOMETER-1

Daily Analysis Runlog For Sequence/QCBatch ID # LB133276

Review By	rubina	Review On	11/4/2024 4:34:49 PM
Supervise By	Iwona	Supervise On	11/4/2024 4:44:32 PM
SubDirectory	LB133276	Test	Hexavalent Chromium

STD. NAME	STD REF.#
ICAL Standard	N/A
ICV Standard	N/A
CCV Standard	N/A
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	N/A
Chk Standard	WP110515,WP110380,WP110381,WP108645

39	P4680-05	BP-F25	SAM	11/04/24 15:18		rubina	OK
40	P4682-01	BELL-SHOP-RAGS	SAM	11/04/24 15:19		rubina	OK
41	P4685-01	OK-01-11012024	SAM	11/04/24 15:20		rubina	OK
42	CCV4	CCV4	CCV	11/04/24 15:21		rubina	OK
43	CCB4	CCB4	CCB	11/04/24 15:22		rubina	OK

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Instrument ID: KONELAB

Daily Analysis Runlog For Sequence/QCBatch ID # LB133277

Review By	Niha	Review On	11/5/2024 9:53:56 AM
Supervise By	Iwona	Supervise On	11/5/2024 10:41:00 AM
SubDirectory	LB133277	Test	Cyanide

STD. NAME	STD REF.#
ICAL Standard	WP110521,WP110522,WP110523,WP110524,WP110525,WP110526,WP110527
ICV Standard	W3011
CCV Standard	WP110522
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	WP109549
Chk Standard	WP109068,WP110103,WP110528

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	0.0PPBCN	0.0PPBCN	CAL1	11/04/24 11:27		Niha	OK
2	5.0PPBCN	5.0PPBCN	CAL2	11/04/24 11:27		Niha	OK
3	10PPBCN	10PPBCN	CAL3	11/04/24 11:27		Niha	OK
4	50PPBCN	50PPBCN	CAL4	11/04/24 11:27		Niha	OK
5	100PPBCN	100PPBCN	CAL5	11/04/24 11:27		Niha	OK
6	250PPBCN	250PPBCN	CAL6	11/04/24 11:27		Niha	OK
7	500PPBCN	500PPBCN	CAL7	11/04/24 11:27		Niha	OK
8	ICV1	ICV1	ICV	11/04/24 12:01		Niha	OK
9	ICB1	ICB1	ICB	11/04/24 12:01		Niha	OK
10	CCV1	CCV1	CCV	11/04/24 12:01		Niha	OK
11	CCB1	CCB1	CCB	11/04/24 12:01		Niha	OK
12	PB164654BS	PB164654BS	LCS	11/04/24 12:09		Niha	OK
13	LOWPB164654	LOWPB164654	SAM	11/04/24 12:09		Niha	OK
14	HIGHPB164654	HIGHPB164654	SAM	11/04/24 12:09		Niha	OK
15	P4663-02	TENNANT-PAD-2-3-S	SAM	11/04/24 12:09		Niha	OK
16	P4663-02DUP	TENNANT-PAD-2-3-S	DUP	11/04/24 12:09		Niha	OK
17	P4663-02MS	TENNANT-PAD-2-3-S	MS	11/04/24 12:09		Niha	OK
18	P4663-02MSD	TENNANT-PAD-2-3-S	MSD	11/04/24 12:09		Niha	OK

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Fax : 908 789 8922

Instrument ID: KONELAB

Daily Analysis Runlog For Sequence/QCBatch ID # LB133277

Review By	Niha	Review On	11/5/2024 9:53:56 AM
Supervise By	Iwona	Supervise On	11/5/2024 10:41:00 AM
SubDirectory	LB133277	Test	Cyanide

STD. NAME	STD REF.#
ICAL Standard	WP110521,WP110522,WP110523,WP110524,WP110525,WP110526,WP110527
ICV Standard	W3011
CCV Standard	WP110522
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	WP109549
Chk Standard	WP109068,WP110103,WP110528

19	P4663-04	RES-BUILDING-PAD-	SAM	11/04/24 12:09		Niha	OK
20	P4663-06	RES-BUILDING-PAD-	SAM	11/04/24 12:09		Niha	OK
21	CCV2	CCV2	CCV	11/04/24 12:14		Niha	OK
22	CCB2	CCB2	CCB	11/04/24 12:14		Niha	OK
23	P4663-08	RES-BUILDING-PAD-	SAM	11/04/24 12:14		Niha	OK
24	PB164654BL	PB164654BL	MB	11/04/24 12:17		Niha	OK
25	CCV3	CCV3	CCV	11/04/24 12:20		Niha	OK
26	CCB3	CCB3	CCB	11/04/24 12:20		Niha	OK

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LAB CHRONICLE

OrderID:	P4663	**OrderDate:**	10/31/2024 3:05:00 PM
Client:	Union Paving & Construction Company	**Project:**	Rt. 10 Whippany
Contact:	Gregory Butler	**Location:**	K41,VOA Ref. #2 Soil

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P4663-02	**TENNANT-PAD-2-3-STOCKPILE**	**SOIL**			**10/31/24 12:50**			**10/31/24**
			Cyanide	9012B		11/01/24	11/04/24 12:09	
			Hexavalent Chromium	7196A		11/04/24	11/04/24 14:54	
			Trivalent Chromium	6010D			11/04/24 20:12	
P4663-04	**RES-BUILDING-PAD-NO-11**	**SOIL**			**10/31/24 13:04**			**10/31/24**
			Cyanide	9012B		11/01/24	11/04/24 12:09	
			Hexavalent Chromium	7196A		11/04/24	11/04/24 14:55	
			Trivalent Chromium	6010D			11/04/24 20:17	
P4663-06	**RES-BUILDING-PAD-NO-3**	**SOIL**			**10/31/24 13:26**			**10/31/24**
			Cyanide	9012B		11/01/24	11/04/24 12:09	
			Hexavalent Chromium	7196A		11/04/24	11/04/24 14:56	
			Trivalent Chromium	6010D			11/04/24 20:21	
P4663-08	**RES-BUILDING-PAD-NO-2**	**SOIL**			**10/31/24 13:39**			**10/31/24**
			Cyanide	9012B		11/01/24	11/04/24 12:14	
			Hexavalent Chromium	7196A		11/04/24	11/04/24 14:57	

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LAB CHRONICLE

Trivalent Chromium	6010D	11/04/24 20:25

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Soil/Sludge Hexavalent Chromium Preparation Sheet

PB164606

13

SOP ID : M3060A,7196A-Hex.Chromium-26

SDG No : N/A

Matrix : SOIL

Pippete ID : WC

Balance ID : WC SC-4

Hood ID : HOOD#3

Block ID : WC S-2, WC S-1

Weigh By : RM

Start Digest Date: 11/04/2024 **Time :** 11:00 **Temp :** 90 °C

End Digest Date: 11/04/2024 **Time :** 12:00 **Temp :** 95 °C

11 batch 11/04/2024 12.30 90 C JRM
11/04/2024 13.30 94 C JRM

Digestion tube ID : M6054

Filter paper ID : 400213

pH Meter ID : WC pH meter-1

Block Thermometer ID : WC-Block#1

Prep Technician Signature: RM

Supervisor Signature:

Standared Name	MLS USED	STD REF. # FROM LOG
PRE-DIGESTION SPIKE	2.0ML	WP108658
INSOLUBLE SPIKE	0.02GM	W2202
POST-DIGESTION SPIKE	2.0ML	WP108658
LCSS	1.0ML	WP108659
PBS003	50ML	W3112

Chemical Used	ML/SAMPLE USED	Lot Number
MAGNESIUM CHLORIDE	0.4GM	W3001
PHOSPHATE BUFFER	0.5ML	WP110498
HEX. DIGESTION SOLN.	50.0ML	WP110092
5M HNO3	5-7ML	WP110381
5N H2SO4	1-3ML	WP110380
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

LAB SAMPLE ID	CLIENT SAMPLE ID	Vol(ml)	Comment
CAL1	CAL1	2.5ML	W3112
CAL2	CAL2	0.2ML	WP110518
CAL3	CAL3	0.5ML	WP110518
CAL4	CAL4	1ML	WP110518
CAL5	CAL5	0.2ML	WP108658
CAL6	CAL6	1ML	WP108658
CAL7	CAL7	2.0ML	WP108658
ICV	ICV	1ML	WP108659
ICB	ICB	2.5ML	W3112
CCV	CCV	1ML	WP108658
CCB	CCB	2.5ML	W3112

Extraction Conformance/Non-Conformance Comments:

11/04/2024 RM

N/A

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

Soil/Sludge Hexavalent Chromium Preparation Sheet

PB164606

Lab Sample ID	Client Sample ID	Initial Weight (g)	Final Vol (ml)	pH	Sulfide	Oxidizing	Nitrate/ Nitrite	Comment	Prep Pos
P4663-02	TENNANT-PAD-2-3-STOCKPILE	2.54	100	N/A	N/A	N/A	N/A	N/A	N/A
P4663-04	RES-BUILDING-PAD-NO-11	2.51	100	N/A	N/A	N/A	N/A	N/A	N/A
P4663-06	RES-BUILDING-PAD-NO-3	2.52	100	N/A	N/A	N/A	N/A	N/A	N/A
P4663-08	RES-BUILDING-PAD-NO-2	2.53	100	N/A	N/A	N/A	N/A	N/A	N/A
P4667-01	BP-F-6	2.52	100	N/A	N/A	N/A	N/A	N/A	N/A
P4667-05	BP-F-5	2.51	100	N/A	N/A	N/A	N/A	N/A	N/A
P4667-09	BP-F-10	2.54	100	N/A	N/A	N/A	N/A	N/A	N/A
P4667-13	BP-F-7	2.54	100	N/A	N/A	N/A	N/A	N/A	N/A
P4675-01	COMP-1	2.51	100	N/A	N/A	N/A	N/A	N/A	N/A
P4675-02	COMP-2	2.52	100	N/A	N/A	N/A	N/A	N/A	N/A
P4675-03	COMP-3	2.51	100	N/A	N/A	N/A	N/A	N/A	N/A
P4675-04	COMP-4	2.52	100	N/A	N/A	N/A	N/A	N/A	N/A
P4675-05	COMP-5	2.53	100	N/A	N/A	N/A	N/A	N/A	N/A
P4675-06	COMP-6	2.52	100	N/A	N/A	N/A	N/A	N/A	N/A
P4675-06DUP	COMP-6DUP	2.52	100	N/A	N/A	N/A	N/A	N/A	N/A
P4675-06MSPre	COMP-6MSPRE	2.51	100	N/A	N/A	N/A	N/A	N/A	N/A
P4675-06MS2Ins	COMP-6MS2INS	2.52	100	N/A	N/A	N/A	N/A	N/A	N/A
P4675-06MS3Post	COMP-6MS3POST	2.52	100	N/A	N/A	N/A	N/A	N/A	N/A
P4679-01	MH-1	2.54	100	N/A	N/A	N/A	N/A	N/A	N/A
P4680-01	BP-F26	2.53	100	N/A	N/A	N/A	N/A	N/A	N/A
P4680-05	BP-F25	2.55	100	N/A	N/A	N/A	N/A	N/A	N/A
P4682-01	BELL-SHOP-RAGS	2.51	100	N/A	N/A	N/A	N/A	N/A	N/A
P4685-01	OK-01-11012024	2.54	100	N/A	N/A	N/A	N/A	N/A	N/A
PB164606BL	PBS606	2.50	100	N/A	N/A	N/A	N/A	N/A	N/A
PB164606BS	LCS606	2.50	100	N/A	N/A	N/A	N/A	N/A	N/A

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Soil/Sludge Cyanide Preparation Sheet

PB164654

13

SOP ID : M9012B-Total, Amenable and Reactive Cyanide-20

SDG No : N/A

Start Digest Date: 11/01/2024 **Time :** 14:00 **Temp :** 123 °C

Matrix : SOLID

End Digest Date: 11/01/2024 **Time :** 15:30 **Temp :** 126 °C

Pippete ID : WC

Balance ID : WC SC-4

Hood ID : HOOD#1 **Digestion tube ID :** M5595 **Block Thermometer ID :** WC CYANIDE

Block ID : MC-1,MC-2 **Filter paper ID :** N/A **Prep Technician Signature:** NF

Weigh By : NF **pH Meter ID :** N/A **Supervisor Signature:** 12

Standared Name	MLS USED	STD REF. # FROM LOG
LCSS	1.0ML	WP109549
MS/MSD SPIKE SOL.	0.4ML	WP110035
PBS003	50.0ML	W3112
N/A	N/A	N/A
N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
0.25N NaOH	50.0ML	WP108640
50% v/v H2SO4	5.0ML	WP110391
51% w/v MgCL2	2.0ML	WP110390
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
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
S0	S0	N/A	N/A
S5.0	S5.0	N/A	N/A
S10.0	S10.0	N/A	N/A
S100.0	S100.0	N/A	N/A
S250.0	S250.0	N/A	N/A
S500.0	S500.0	N/A	N/A
ICV	ICV	0.5ML	W3011
ICB	ICB	N/A	N/A
CCV	CCV	N/A	N/A
CCB	CCB	N/A	N/A
Midrange	Midrange	N/A	N/A
HIGHSTD	HIGHSTD	5.0ML	WP110035
LOWSTD	LOWSTD	0.1ML	WP110035

Extraction Conformance/Non-Conformance Comments:

N/A

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
11.01.2024, 15:45	NF(WC)	NF(WC)
	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

Soil/Sludge Cyanide Preparation Sheet

PB164654

Lab Sample ID	Client Sample ID	Initial Weight (g)	Final Vol (ml)	pH	Sulfide	Oxidizing	Nitrate/ Nitrite	Comment	Prep Pos
P4663-02	TENNANT-PAD-2-3-STOCKPILE	1.02	50	N/A	N/A	N/A	N/A	N/A	N/A
P4663-02DUP	TENNANT-PAD-2-3-STOCKPILEDUP	1.04	50	N/A	N/A	N/A	N/A	N/A	N/A
P4663-02MS	TENNANT-PAD-2-3-STOCKPILEMS	1.02	50	N/A	N/A	N/A	N/A	N/A	N/A
P4663-02MSD	TENNANT-PAD-2-3-STOCKPILEMSD	1.01	50	N/A	N/A	N/A	N/A	N/A	N/A
P4663-04	RES-BUILDING-PAD-NO-11	1.05	50	N/A	N/A	N/A	N/A	N/A	N/A
P4663-06	RES-BUILDING-PAD-NO-3	1.01	50	N/A	N/A	N/A	N/A	N/A	N/A
P4663-08	RES-BUILDING-PAD-NO-2	1.03	50	N/A	N/A	N/A	N/A	N/A	N/A
PB164654BL	PBS654	1.00	50	N/A	N/A	N/A	N/A	N/A	N/A
PB164654BS	LCS654	1.00	50	N/A	N/A	N/A	N/A	N/A	N/A

SHIPPING DOCUMENTS

CHEMTECH
CHAIN OF CUSTODY RECORD

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 • Fax (908) 789-8922
www.chemtech.net

CHEMTECH PROJECT NO. P4663
QUOTE NO.
COC Number 2042152

14
14.1

CLIENT INFORMATION (REPORT TO BE SENT TO:)

COMPANY: Union Paving & Construction Co
ADDRESS: 891 RT 10 E
CITY Whippany STATE: NJ ZIP:
ATTENTION: Gregory B
PHONE: FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME:
PROJECT NO.: LOCATION:
PROJECT MANAGER: Gregory B
e-mail:
PHONE: FAX:

CLIENT BILLING INFORMATION

BILL TO: PO#:
ADDRESS:
CITY STATE: ZIP:
ATTENTION: PHONE:

DATA TURNAROUND INFORMATION

FAX (RUSH) _____ DAYS*
HARDCOPY (DATA PACKAGE): _____ DAYS*
EDD: _____ DAYS*
*TO BE APPROVED BY CHEMTECH
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS DAYS

DATA DELIVERABLE INFORMATION

- ❑ Level 1 (Results Only)
- ❑ Level 2 (Results + QC)
- ❑ Level 3 (Results + QC + Raw Data)
- ❑ EDD FORMAT _____
- ❑ Level 4 (QC + Full Raw Data)
- ❑ NJ Reduced ❑ US EPA CLP
- ❑ NYS ASP A ❑ NYS ASP B
- ❑ Other _____

ANALYSIS

Clean fill VOCs

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# OF BOTTLES	PRESERVATIVES 1 (E)	PRESERVATIVES 2 (E)	3	4	5	6	7	8	9	COMMENTS
1.	Tennant Pad 2/3 stockpile	SOL	X		10/31/24	1245	4	X									
2.	Tennant Pad 2/3 stock pile			X		1250	4		X								0.0 ppm
3.	Res Building Pad No. 11		X			1300	4	X									
4.	Res Building Pad No. 11			X		1304	4		X								0.0 ppm
5.	Res Building Pad No. 3		X			1320	4	X									
6.	Res Building Pad No. 3			X		1326	4		X								0.0 ppm
7.	Res Building Pad No. 2		X			1335	4	X									
8.	Res Building Pad No. 2			X		1339	4		X								0.0 ppm
9.																	
10.																	

PRESERVATIVES: ← Specify Preservatives — A-HCl, B-HN03, C-H2SO4, D-NaOH, E-ICE, F-OTHER

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:
1.	10-31-24 1355	1.
2.		2.
3.	10-31-24 1645	3.

Conditions of bottles or coolers at receipt: ✓ COMPLIANT ❑ NON COMPLIANT ✓ COOLER TEMP 2.3 °C
Comments: PID Calibration 10-31-24

Page 1 of 1

CLIENT: ❑ Hand Delivered ❑ Other _____
CHEMTECH: ❑ Picked Up ✓ Field Sampling

Shipment Complete ✓ YES ❑ NO

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WHITE - CHEMTECH COPY FOR RETURN TO CLIENT — YELLOW - CHEMTECH COPY — PINK - SAMPLER COPY

P4663

CHEMTECH
Environmental Laboratory
www.chemtech.net | EMAIL: PM@chemtech.net

Project Name: Union Paving & Construction Co
Service Order #:
Work Order #:
Labor WBS #:
Facility/Site:
Site Address: 891 RT 10 E Whippany, NJ

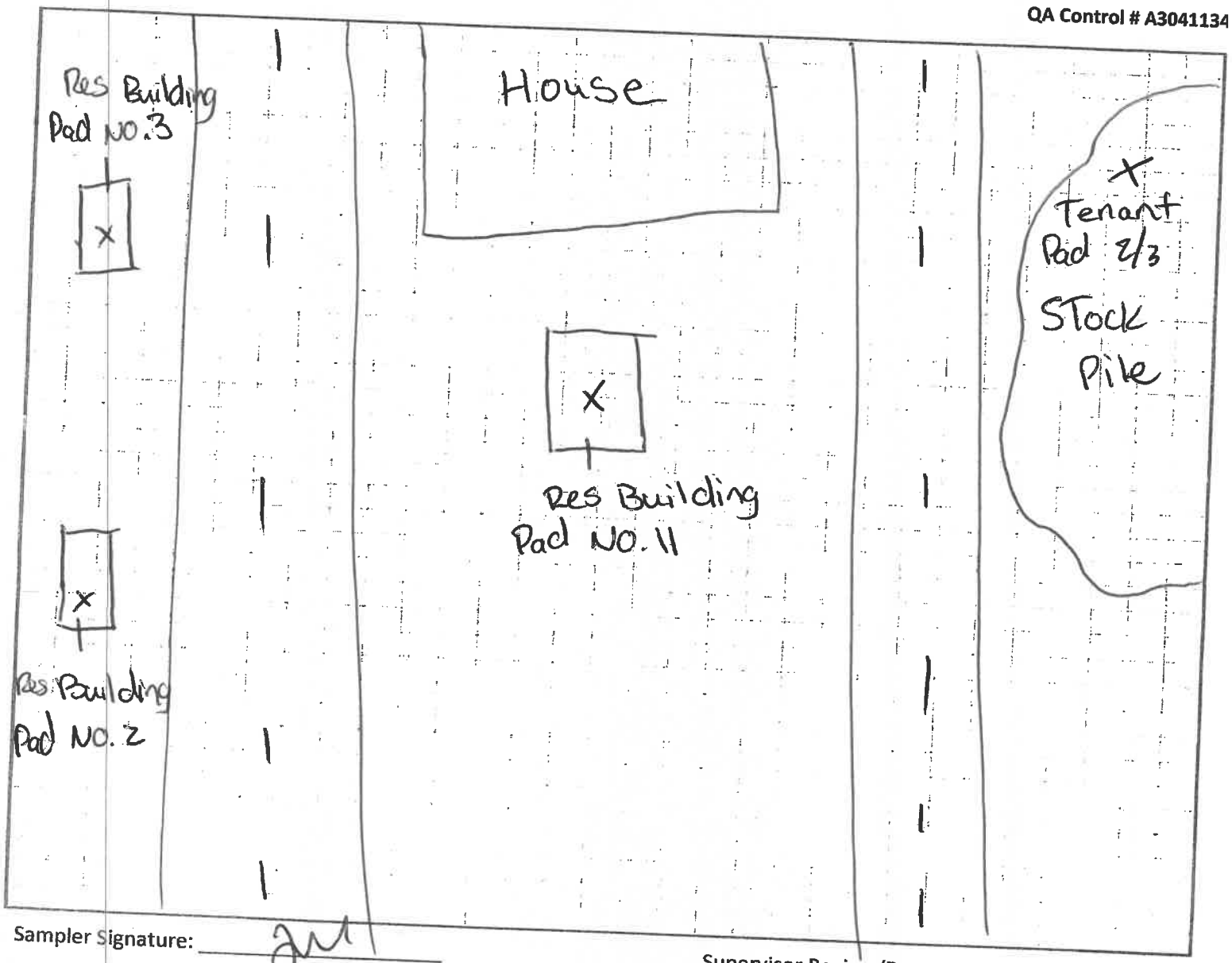
Chemtech Order ID:
Sampler Name: Jeremy M
Client Project Coordinator & Phone: Gregory B
Page #: 1 of 1
Date: 10-31-24
Arrive Time: 1230
Depart Time: 1355

Waste Stream (circle one): drum / roll-off / soil pile / in-situ / linear construction / frac-tank
Sample Matrices (circle all that apply): Water / Solid / NAPL / Concrete / Wipe

Collection Depths: 1 foot - 2 feet
Dimensions/CY: N/A
Temp (range): 2.3 °C
PID Readings (range): PPM
Odor: Y (N)
Color: Y (N)
Sample Description: Brown Rocky Soil.
Field Observations: 4 Spots, (1) Excavation Stockpile (3) Test pits.

Grid/Area Composite Map:

QA Control # A3041134



Sampler Signature: JM
Client Signature:
Supervisor Review/Date:
Date/Time Arrived at Lab:

993 of 995

CHEMTECH 284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Laboratory Certification

Certified By	License No.
CAS EPA CLP Contract	68HERH20D0011
Connecticut	PH-0830
DOD ELAP (ANAB)	L2219
Maine	2024021
Maryland	296
New Hampshire	255424 Rev 1
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	T104704488

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

LOGIN REPORT/SAMPLE TRANSFER

Order ID :	P4663 UNIO02	**Order Date :**	10/31/2024 3:05:00 PM	**Project Mgr :**	
Client Name :	Union Paving & Constructi	**Project Name :**	Rt. 10 Whippany	**Report Type :**	Level 3
Client Contact :	Gregory Butler	**Receive DateTime :**	10/31/2024 ~~12:00:00 AM~~ 16:45	**EDD Type :**	Excel NJ
Invoice Name :	Union Paving & Constructi	**Purchase Order :**		**Hard Copy Date :**	
Invoice Contact :	Gregory Butler			**Date Signoff :**	

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
P4663-01	TENNANT-PAD-2-3-STOCKPILE	Solid	10/31/2024	12:45					
					VOCMS Group1		8260D		3 Bus. Days
P4663-03	RES-BUILDING-PAD-NO-11	Solid	10/31/2024	13:00					
					VOCMS Group1		8260D		3 Bus. Days
P4663-05	RES-BUILDING-PAD-NO-3	Solid	10/31/2024	13:20					
					VOCMS Group1		8260D		3 Bus. Days
P4663-07	RES-BUILDING-PAD-NO-2	Solid	10/31/2024	13:35					
					VOCMS Group1		8260D		3 Bus. Days

Relinguished By : JM

Date / Time : 10-31-24 1710

Left inside SM fridge

Received By : JM

Date / Time : 11/01/24 12:00

DJ# 6 RZ2

Storage Area : VOA Refridgerator Room