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

DATA PACKAGE

GC SEMI-VOLATILES

PROJECT NAME : NJ SOIL PT

CHEMTECH CONSULTING GROUP

284 Sheffield St,

Mountainside, NJ - 07092

Phone No: 908-789-8900

ORDER ID : P4495

ATTENTION : QA Officer

Laboratory Certification ID # 20012

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Cover Page

Order ID : P4495

Project ID : NJ Soil PT

Client : Chemtech Consulting Group

Lab Sample Number	Client Sample Number
P4495-01	PT-AN-SOIL
P4495-02	PT-CORR-SOIL
P4495-03	PT-CN-SOIL
P4495-04	PT-CN-SOIL
P4495-05	PT-FP-SOIL
P4495-06	PT-CR6-SOIL
P4495-07	PT-NUT-SOIL
P4495-08	PT-NUT-SOIL
P4495-09	PT-OGR-SOIL
P4495-10	PT-MET-SOIL
P4495-11	PT-BNA-SOIL
P4495-12	PT-TRIAZINE-SOIL
P4495-13	PT-PAH-SOIL
P4495-14	PT-DIES-SOIL
P4495-15	PT-GAS-SOIL
P4495-16	PT-NJEPH-SOIL
P4495-17	PT-HERB-SOIL
P4495-18	PT-PCB-SOIL
P4495-19	PT-PCBO-SOIL
P4495-20	PT-PEST-SOIL
P4495-21	PT-CHLR-SOIL
P4495-22	PT-TXP-SOIL
P4495-23	PT-VOA-SOIL
P4495-24	PT-SOL-SOIL
P4495-25	PT-NO2-SOIL

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 : _____ Date: 12/4/2024

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

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CASE NARRATIVE

Chemtech Consulting Group
Project Name: NJ Soil PT
Project # N/A
Chemtech Project # P4495
Test Name: EPH

A. Number of Samples and Date of Receipt:
25 Solid samples were received on 10/23/2024.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: Ammonia, Anions Group1, Anions Group2, Corrosivity, Cyanide, Diesel Range Organics, EPH, Flash Point, Gasoline Range Organics, Herbicide Group1, Hexavalent Chromium, Mercury, Metals Group3, Metals ICP-Group1, Nitrite, Oil and Grease, PCB, PESTICIDE Group1, PESTICIDE Group2, PESTICIDE Group3, Phosphorus, Total, SVOCMS Group1, SVOCMS Group2, SVOCMS Group3, SVOCMS Group4, TKN, TOC, TS and VOCMS Group1. This data package contains results for EPH.

C. Analytical Techniques:
The analysis were performed on instrument FID_C. The column is RXI-1MS which is 20 meters, 0.18mm ID, 0.18 um df, catalog 10224.The analyses were performed on instrument FID_D. The column is RXI-1MS which is 20 meters, 0.18mm ID, 0.18 um df, catalog 10224.The analysis of EPHs was based on method NJEPH and extraction was done based on method 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 {P4518-05MS} with File ID: FC067546.D recoveries met the requirements for all compounds except for Aliphatic C9-C12[145%], Aliphatic C12-C16[921%], Aliphatic C16-C21[762%], Aliphatic C21-C28[377%] and Aliphatic C28-C40[321%] due to matrix interference.
The MS {P4518-05MS} with File ID: FD048607.D recoveries met the requirements for all compounds except for Aromatic C12-C16[223%], Aromatic C16-C21[281%] due to matrix interference.

The MSD {P4518-05MSD} with File ID: FC067547.D recoveries met the acceptable requirements except for Aliphatic C9-C12[140%], Aliphatic C12-C16[856%], Aliphatic C16-C21[748%], Aliphatic C21-C28[350%] and Aliphatic C28-C40[307%] due to matrix interference.

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The MSD {P4518-05MSD} with File ID: FD048608.D recoveries met the acceptable requirements except for Aromatic C12-C16[180%], Aromatic C16-C21[277%] due to matrix interference.

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

Samples PT-NJEPH-SOIL, PT-NJEPH-SOILDL and PT-NJEPH-SOILDL2 were diluted due to high concentrations for Aliphatic compounds and Sample PT-NJEPH-SOIL was diluted due to high concentrations for Aromatic compounds.

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_____

284 Sheffield Street, Mountainside NJ 07092 Tel.
908-789-8900 Fax: 908-789-8922

DATA REPORTING QUALIFIERS- ORGANIC

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

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

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GC ANALYSIS CONFORMANCE/NON-CONFORMANCE SUMMARY

CHEMTECH PROJECT NUMBER: P4495 MATRIX: Solid

METHOD: NJEPH/3541

		NA	NO	YES
1.	Chromatograms Labeled/Compounds Identified.			✓
2.	Standard Summary Submitted.			✓
3.	Calibration - Initial Calibration performed within 30 days before sample analysis and continuing calibration performed within 24 hours of sample analysis, 12 HOURS IF 8000 SERIES METHOD. The Initial Calibration met the requirements . The Continuous Calibration met the requirements .			✓
4.	Blank Contamination - If yes, list compounds and concentrations in each blank:		✓	
5.	Surrogate Recoveries Meet Criteria If not met, list those compounds and their recoveries which fall outside the acceptable ranges.			✓
6.	Matrix Spike/Matrix Spike Duplicate Recoveries Meet Criteria If not met, list those compounds and their recoveries which fall outside the acceptable range.		✓	

The MS {P4518-05MS} with File ID: FC067546.D recoveries met the requirements for all compounds except for Aliphatic C9-C12[145%], Aliphatic C12-C16[921%], Aliphatic C16-C21[762%], Aliphatic C21-C28[377%] and Aliphatic C28-C40[321%] due to matrix interference.

The MS {P4518-05MS} with File ID: FD048607.D recoveries met the requirements for all compounds except for Aromatic C12-C16[223%], Aromatic C16-C21[281%] due to matrix interference.

The MSD {P4518-05MSD} with File ID: FC067547.D recoveries met the acceptable requirements except for Aliphatic C9-C12[140%], Aliphatic C12-C16[856%], Aliphatic C16-C21[748%], Aliphatic C21-C28[350%] and Aliphatic C28-C40[307%] due to matrix interference.

The MSD {P4518-05MSD} with File ID: FD048608.D recoveries met the acceptable requirements except for Aromatic C12-C16[180%], Aromatic C16-C21[277%] due to matrix interference.

The Blank Spike met requirements for all samples .
The Blank Spike Duplicate met requirements for all samples .
The RPD met criteria .

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GC ANALYSIS CONFORMANCE/NON-CONFORMANCE SUMMARY (CONTINUED)

		NA	NO	YES
7.	Retention Time Shift Meet Criteria (if applicable)			✓
	Comments:			
8.	Extraction Holding Time Met			✓
	If not met, list number of days exceeded for each sample:			
9.	Analysis Holding Time Met			✓
	If not met, list those compounds and their recoveries which fall outside the acceptable range.			

ADDITIONAL COMMENTS:

Samples PT-NJEPH-SOIL, PT-NJEPH-SOILDL and PT-NJEPH-SOILDL2 were diluted due to high concentrations for Aliphatic compounds and Sample PT-NJEPH-SOIL was diluted due to high concentrations for Aromatic compounds.

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

_____ _____

QA REVIEW Date

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GC ANALYSIS CONFORMANCE/NON-CONFORMANCE SUMMARY (CONTINUED)

NA NO YES

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APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: P4495

	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:** 12/04/2024

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LAB CHRONICLE

OrderID:	P4495	**OrderDate:**	10/23/2024 10:29:00 AM
Client:	Chemtech Consulting Group	**Project:**	NJ Soil PT
Contact:	QA Officer	**Location:**	QA Office,VOA Lab

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P4495-14	**PT-DIES-SOIL**	**SOIL**			**10/21/24**			**10/23/24**
			Diesel Range Organics	8015D		10/24/24	10/24/24	
			Diesel Range Organics	8015D		10/24/24	10/25/24	
P4495-15	**PT-GAS-SOIL**	**SOIL**			**10/21/24**			**10/23/24**
			Gasoline Range Organics	8015D			10/24/24	
			Gasoline Range Organics	8015D			10/30/24	
P4495-16	**PT-NJEPH-SOIL**	**Solid**			**10/21/24**			**10/23/24**
			EPH	NJEPH		10/25/24	10/28/24	
P4495-17	**PT-HERB-SOIL**	**SOIL**			**10/21/24**			**10/23/24**
			Herbicide Group1	8151A		11/14/24	11/25/24	
P4495-17RE	**PT-HERB-SOILRE**	**SOIL**			**10/21/24**			**10/23/24**
			Herbicide Group1	8151A		11/14/24	11/25/24	
P4495-18	**PT-PCB-SOIL**	**SOIL**			**10/21/24**			**10/23/24**
			PCB	8082A		10/25/24	10/25/24	
P4495-18DL	**PT-PCB-SOIL DL**	**SOIL**			**10/21/24**			**10/23/24**
			PCB	8082A		10/25/24	10/25/24	
P4495-19	**PT-PCBO-SOIL**	**SOIL**			**10/21/24**			**10/23/24**
			PCB	8082A		10/25/24	10/28/24	
P4495-19DL	**PT-PCBO-SOILDL**	**SOIL**			**10/21/24**			**10/23/24**
			PCB	8082A		10/25/24	10/28/24	
P4495-20	**PT-PEST-SOIL**	**SOIL**			**10/21/24**			**10/23/24**
			PESTICIDE Group1	8081B		10/25/24	11/04/24	
P4495-20DL	**PT-PEST-SOILDL**	**SOIL**			**10/21/24**			**10/23/24**

LAB CHRONICLE

			PESTICIDE Group1	8081B		10/25/24	11/04/24	
P4495-20DL2	**PT-PEST-SOILDL2**	**SOIL**			**10/21/24**			**10/23/24**
			PESTICIDE Group1	8081B		10/25/24	11/04/24	
P4495-21	**PT-CHLR-SOIL**	**SOIL**			**10/21/24**			**10/23/24**
			PESTICIDE Group2	8081B		10/25/24	10/31/24	
P4495-22	**PT-TXP-SOIL**	**SOIL**			**10/21/24**			**10/23/24**
			PESTICIDE Group3	8081B		10/25/24	10/31/24	
P4495-22DL	**PT-TXP-SOILDL**	**SOIL**			**10/21/24**			**10/23/24**
			PESTICIDE Group3	8081B		10/25/24	10/31/24	

QC SUMMARY

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SOIL EPH SURROGATE RECOVERY

Lab Name: CHEMTECH Contract: CHEM02

Lab Code: CHEM CASE No.: P4495 SAS No.: P4495 SDG No.: P4495

Run Number: FC102824AL

Client SAMPLE NO.	1-chlorooctadecane (SURR)			TOT OUT
PT-NJEPH-SOIL	92			0
PT-NJEPH-SOILDL	92			0
PT-NJEPH-SOILDL2	95			0
PT-NJEPH-SOILDL3	91			0
EX-5-TPH-5MS	81			0
EX-5-TPH-5MSD	76			0
PB164396BL	78			0
PB164396BS	61			0
PB164396BSD	67			0

	QC LIMITS
1-chlorooctadecane (SURR)	(40-140)

Column to be used to flag recovery values
* Values outside of contract required QC Limits
D Surrogate diluted out

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SOIL EPH SURROGATE RECOVERY

Lab Name: CHEMTECH Contract: CHEM02

Lab Code: CHEM CASE No.: P4495 SAS No.: P4495 SDG No.: P4495

Run Number: FD102824AR

Client SAMPLE NO.	2-Bromonaphthalene (SURR)	2-Flurobiphenyl (SURR)	ortho-Terphenyl (SURR)	TOT OUT
PT-NJEPH-SOIL	130	123	106	0
PT-NJEPH-SOILDL	123	114	98	0
EX-5-TPH-5MS	128	117	71	0
EX-5-TPH-5MSD	125	114	71	0
PB164396BL	104	101	90	0
PB164396BS	98	100	80	0
PB164396BSD	101	104	83	0

	QC LIMITS
2-Bromonaphthalene (SURR)	(40-140)
2-Flurobiphenyl (SURR)	(40-140)
ortho-Terphenyl (SURR)	(40-140)

Column to be used to flag recovery values
* Values outside of contract required QC Limits
D Surrogate diluted out

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SOLID EPH MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** Chemtech Consulting Group

Lab Code: CHEM **Cas No:** P4495 **SAS No :** P4495 **SDG No:** P4495

Sample No : P4518-05MS **Datafile:** FC067546.D

Client ID : EX-5-TPH-5MS

COMPOUND	SPIKE ADDED mg/kg	SAMPLE CONCENTRATION mg/kg	MS/MSD CONCENTRATION mg/kg	% REC	Qual	QC LIMITS
Aliphatic C9-C12	13.5	23.2	42.9	145	*	(40-140)
Aliphatic C12-C16	9.0	184	268	921	*	(40-140)
Aliphatic C16-C21	13.5	200	304	762	*	(40-140)
Aliphatic C21-C28	18.0	36.9	105	377	*	(40-140)
Aliphatic C28-C40	27.0	38.9	126	321	*	(40-140)

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SOLID EPH MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** Chemtech Consulting Group

Lab Code: CHEM **Cas No:** P4495 **SAS No :** P4495 **SDG No:** P4495

Sample No : P4518-05MSD **Datafile:** FC067547.D

Client ID : EX-5-TPH-5MSD

COMPOUND	SPIKE ADDED mg/kg	SAMPLE CONCENTRATION mg/kg	MS/MSD CONCENTRATION mg/kg	% REC	Qual	RPD |	QC LIMITS	QC Limit Of RPD
Aliphatic C9-C12	13.5	23.2	42.2	140	*	3.51 |	(40-140)	25
Aliphatic C12-C16	9.0	184	262	856	*	7.32 |	(40-140)	25
Aliphatic C16-C21	13.5	200	302	748	*	1.85 |	(40-140)	25
Aliphatic C21-C28	18.0	36.9	100	350	*	7.43 |	(40-140)	25
Aliphatic C28-C40	27.0	38.9	122	307	*	4.46 |	(40-140)	25

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SOLID EPH MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** Chemtech Consulting Group

Lab Code: CHEM **Cas No:** P4495 **SAS No :** P4495 **SDG No:** P4495

Sample No : P4518-05MS **Datafile:** FD048607.D

Client ID : EX-5-TPH-5MS

COMPOUND	SPIKE ADDED mg/kg	SAMPLE CONCENTRATION mg/kg	MS/MSD CONCENTRATION mg/kg	% REC	Qual	QC LIMITS
Aromatic C10-C12	9.0	4.94	15.4	116		(40-140)
Aromatic C12-C16	13.5	55.1	85.4	223	*	(40-140)
Aromatic C16-C21	22.5	191	255	281	*	(40-140)
Aromatic C21-C36	36.1	40.5	90.4	138		(40-140)

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SOLID EPH MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** Chemtech Consulting Group

Lab Code: CHEM **Cas No:** P4495 **SAS No :** P4495 **SDG No:** P4495

Sample No : P4518-05MSD **Datafile:** FD048608.D

Client ID : EX-5-TPH-5MSD

COMPOUND	SPIKE ADDED mg/kg	SAMPLE CONCENTRATION mg/kg	MS/MSD CONCENTRATION mg/kg	% REC	Qual	RPD |	QC LIMITS	QC Limit Of RPD
Aromatic C10-C12	9.0	4.94	15.1	112		3.51 |	(40-140)	25
Aromatic C12-C16	13.5	55.1	79.5	180	*	21.3 |	(40-140)	25
Aromatic C16-C21	22.5	191	254	277	*	1.43 |	(40-140)	25
Aromatic C21-C36	36.0	40.5	86.6	127		8.3 |	(40-140)	25

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SOLID EPH LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** Chemtech Consulting Group

Lab Code: CHEM **Cas No:** P4495 **SAS No :** P4495 **SDG No:** P4495

Sample No : PB164396BS **Datafile:** FC067543.D

Client ID : PB164396BS

COMPOUND	SPIKE ADDED mg/kg	LCS/LCSD CONCENTRATION mg/kg	% REC	Qual	QC LIMITS
Aliphatic C9-C12	10	5.70	57		(40-140)
Aliphatic C12-C16	6.7	5.41	81		(40-140)
Aliphatic C16-C21	10	9.37	94		(40-140)
Aliphatic C21-C28	13.3	12.7	95		(40-140)
Aliphatic C28-C40	20.0	22.7	113		(40-140)

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SOLID EPH LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** Chemtech Consulting Group

Lab Code: CHEM **Cas No:** P4495 **SAS No :** P4495 **SDG No:** P4495

Sample No : PB164396BSD **Datafile:** FC067544.D

Client ID : PB164396BSD

COMPOUND	SPIKE ADDED mg/kg	LCS/LCSD CONCENTRATION mg/kg	% REC	Qual	RPD | QC LIMITS	QC Limit Of RPD
Aliphatic C9-C12	10	5.66	57		0.813| (40-140)	50
Aliphatic C12-C16	6.7	5.38	81		0.551| (40-140)	50
Aliphatic C16-C21	10	9.32	93		0.575| (40-140)	50
Aliphatic C21-C28	13.3	12.6	95		0.776| (40-140)	50
Aliphatic C28-C40	20.0	22.6	113		0.06| (40-140)	50

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SOLID EPH LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** Chemtech Consulting Group

Lab Code: CHEM **Cas No:** P4495 **SAS No :** P4495 **SDG No:** P4495

Sample No : PB164396BS **Datafile:** FD048604.D

Client ID : PB164396BS

COMPOUND	SPIKE ADDED mg/kg	LCS/LCSD CONCENTRATION mg/kg	% REC	Qual	QC LIMITS
Aromatic C10-C12	6.7	4.85	73		(40-140)
Aromatic C12-C16	10	8.24	82		(40-140)
Aromatic C16-C21	16.7	17.6	105		(40-140)
Aromatic C21-C36	26.6	26.4	99		(40-140)

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Fax : 908 789 8922

SOLID EPH LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** Chemtech Consulting Group

Lab Code: CHEM **Cas No:** P4495 **SAS No :** P4495 **SDG No:** P4495

Sample No : PB164396BSD **Datafile:** FD048605.D

Client ID : PB164396BSD

COMPOUND	SPIKE ADDED mg/kg	LCS/LCSD CONCENTRATION mg/kg	% REC	Qual	RPD |	QC LIMITS	QC Limit Of RPD
Aromatic C10-C12	6.7	5.03	76		3.6|	(40-140)	50
Aromatic C12-C16	10	8.57	86		3.9|	(40-140)	50
Aromatic C16-C21	16.7	18.3	109		4.5|	(40-140)	50
Aromatic C21-C36	26.6	27.3	102		3.3|	(40-140)	50

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Fax : 908 789 8922

4B

METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB164396BL

Lab Name: CHEMTECH Contract: CHEM02

Lab Code: CHEM Case No.: P4495 SAS No.: P4495 SDG NO.: P4495

Instrument ID: FID_C Lab Sample ID: PB164396BL

Matrix: (soil/water) Solid Date Extracted: 10/25/2024 9:05:00

Level: (low/med) low

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

EPA SAMPLE NO.	LAB SAMPLE ID
PB164396BS	PB164396BS
PB164396BSD	PB164396BSD
PT-NJEPH-SOIL	P4495-16
EX-5-TPH-5MS	P4518-05MS
EX-5-TPH-5MSD	P4518-05MSD

COMMENTS:

SAMPLE DATA

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Fax : 908 789 8922

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	10/21/24
Project:	NJ Soil PT	Date Received:	10/23/24
Client Sample ID:	PT-NJEPH-SOIL	SDG No.:	P4495
Lab Sample ID:	P4495-16	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	100
Sample Wt/Vol:	20.27 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
10/25/24 09:05	10/28/24 11:26	PB164396

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	177		10	5.62	14.8	mg/kg	FC067537.D
Aliphatic C12-C16	Aliphatic C12-C16	429		25	8.88	24.7	mg/kg	FC067538.D
Aliphatic C16-C21	Aliphatic C16-C21	370		25	11.1	37.0	mg/kg	FC067538.D
Aliphatic C21-C28	Aliphatic C21-C28	54.1		5	5.92	9.87	mg/kg	FC067536.D
Aliphatic C28-C40	Aliphatic C28-C40	14.7		1	2.66	2.96	mg/kg	FC067535.D
Aromatic C10-C12	Aromatic C10-C12	32.8		5	2.22	4.93	mg/kg	FD048599.D
Aromatic C12-C16	Aromatic C12-C16	104		5	2.52	7.40	mg/kg	FD048599.D
Aromatic C16-C21	Aromatic C16-C21	193		5	7.10	12.3	mg/kg	FD048599.D
Aromatic C21-C36	Aromatic C21-C36	42.3		1	2.96	3.95	mg/kg	FD048598.D
Total AliphaticEPH	Total AliphaticEPH	1040			34.2	89.3	mg/kg	
Total AromaticEPH	Total AromaticEPH	372			14.8	28.6	mg/kg	
Total EPH	Total EPH	1420			49.0	118	mg/kg	

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

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

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Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	10/21/24
Project:	NJ Soil PT	Date Received:	10/23/24
Client Sample ID:	PT-NJEPH-SOIL	SDG No.:	P4495
Lab Sample ID:	P4495-16	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	100
Sample Wt/Vol:	20.27 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FC067535.D	1	10/25/24	10/28/24	PB164396

CAS Number	Parameter		Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
Aliphatic C9-C12	Aliphatic C9-C12		180	E	0.56	1.48	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16		398	E	0.36	0.99	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21		352	E	0.44	1.48	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28		67.8	E	1.18	1.97	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40		14.7		2.66	2.96	mg/kg
SURROGATES							
3383-33-2	1-chlorooctadecane (SURR)		46.2		40 - 140	92%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)		0.00		40 - 140	0%	SPK: 50

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Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	P4495-16	Acq On:	28 Oct 2024 09:53
Client Sample ID:	PT-NJEPH-SOIL	Operator:	YP/AJ
Data file:	FC067535.D	Misc:	
Instrument:	FID_C	ALS Vial:	11
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.173	6.453	247270961	1830	300	ug/ml
Aliphatic C12-C16	6.454	9.842	531469553	4040	200	ug/ml
Aliphatic C16-C21	9.843	13.200	454300268	3570	300	ug/ml
Aliphatic C21-C28	13.201	16.853	82501836	686.998	400	ug/ml
Aliphatic C28-C40	16.854	21.695	15039209	148.766	600	ug/ml
Aliphatic EPH	3.173	21.695	1330581827	10300		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	12.939	12.939	4988958	46.2		ug/ml
Aliphatic C9-C28	3.173	16.853	1315542618	10100	1200	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC102824AL\
Data File : FC067535.D
Signal(s) : FID1A.ch
Acq On : 28 Oct 2024 09:53
Operator : YP/AJ
Sample : P4495-16
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
PT-NJEPH-SOIL

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 10/29/2024
Supervised By :Ankita Jodhani 10/29/2024

Integration File: sample.E
Quant Time: Oct 29 00:04:34 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 18:12:58 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			
12) S 1-chlorooctadecane (S...	12.939	4988958	46.199 ug/mlm
Spiked Amount 50.000		Recovery = 92.40%	
Target Compounds			

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

Quantitation Report (QT Reviewed)

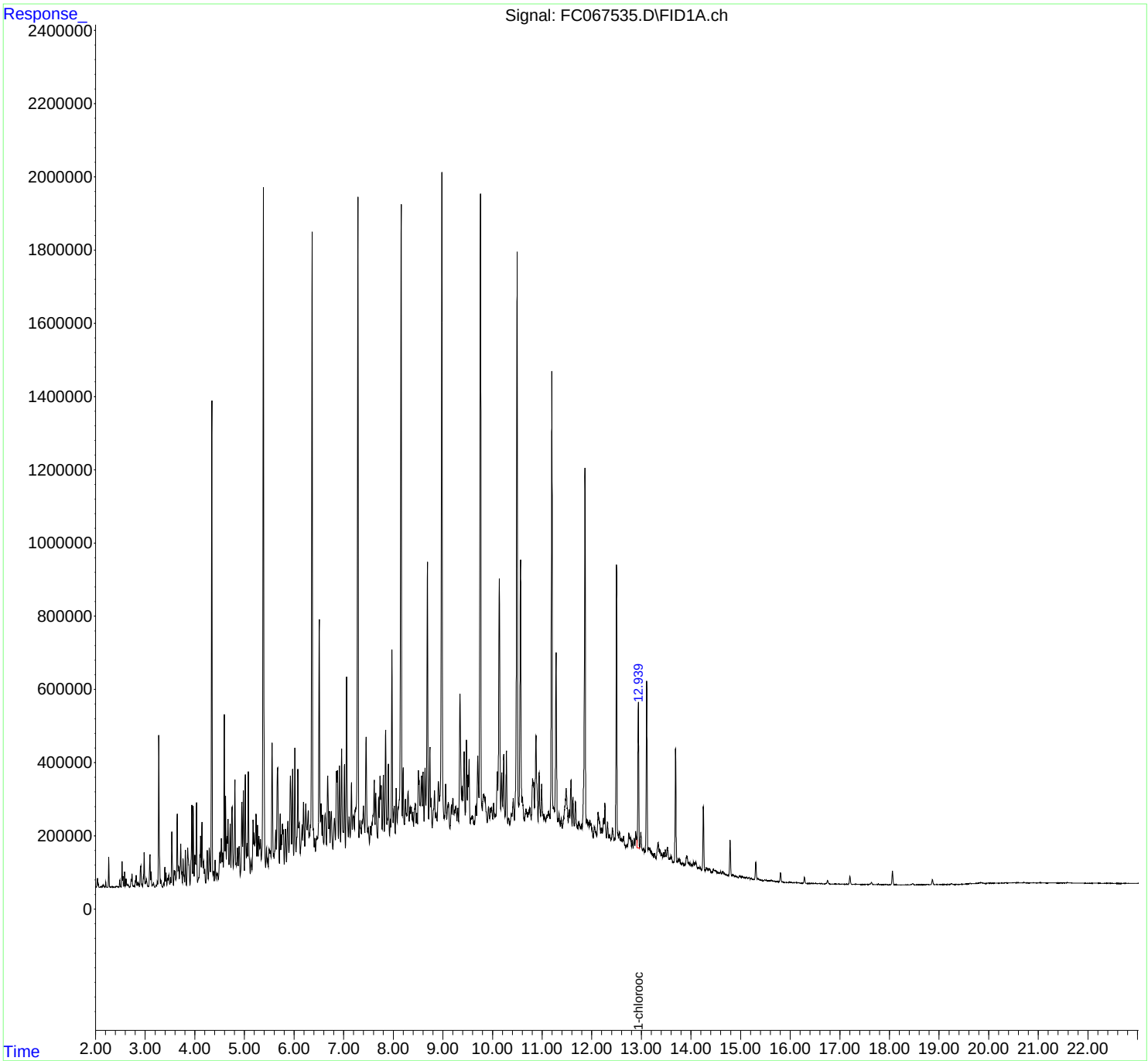
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC102824AL\
Data File : FC067535.D
Signal(s) : FID1A.ch
Acq On : 28 Oct 2024 09:53
Operator : YP/AJ
Sample : P4495-16
Misc :
ALS Vial : 11 Sample Multiplier: 1

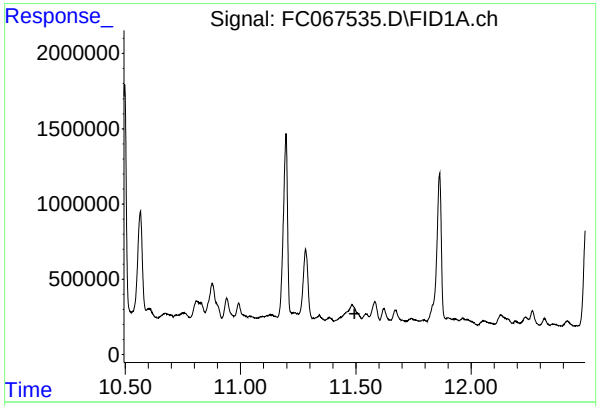
Instrument :
FID_C
ClientSampleId :
PT-NJEPH-SOIL

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 10/29/2024
Supervised By :Ankita Jodhani 10/29/2024

Integration File: sample.E
Quant Time: Oct 29 00:04:34 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 18:12:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um





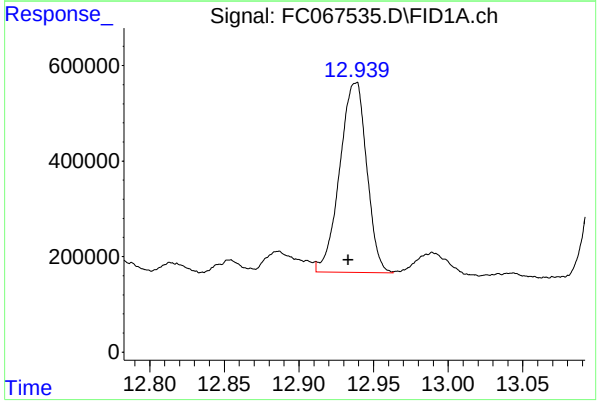
#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.494 min
Response: 0
Conc: N.D.

Instrument :
FID_C
ClientSampleId :
PT-NJEPH-SOIL

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/29/2024
Supervised By :Ankita Jodhani 10/29/2024



#12 1-chlorooctadecane (SURR)

R.T.: 12.939 min
Delta R.T.: 0.006 min
Response: 4988958
Conc: 46.20 ug/ml m

Instrument :
FID_C
ClientSampleId :
PT-NJEPH-SOIL

rteres

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 10/29/2024
Supervised By :Ankita Jodhani 10/29/2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC10282
Data File : FC067535.D
Signal(s) : FID1A.ch
Acq On : 28 Oct 2024 09:53
Sample : P4495-16
Misc :
ALS Vial : 11 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 102324.M
Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.167	3.154	3.197	PH	633	-141160	-0.41%	-0.011%
2	3.219	3.197	3.231	PV	-443	-93053	-0.27%	-0.007%
3	3.274	3.231	3.308	PV	410231	4335409	12.67%	0.326%
4	3.319	3.308	3.352	VV	17202	199517	0.58%	0.015%
5	3.371	3.352	3.380	PV	10888	94168	0.28%	0.007%
6	3.396	3.380	3.409	VV	53519	509472	1.49%	0.038%
7	3.420	3.409	3.437	VV	39259	387385	1.13%	0.029%
8	3.452	3.437	3.461	VV	25094	253581	0.74%	0.019%
9	3.476	3.461	3.497	VV	34093	454003	1.33%	0.034%
10	3.512	3.497	3.520	VV	28104	246865	0.72%	0.019%
11	3.537	3.520	3.569	VV	149512	1826055	5.33%	0.137%
12	3.586	3.569	3.618	VV	45352	926535	2.71%	0.070%
13	3.645	3.618	3.665	VV	200107	2319729	6.78%	0.174%
14	3.674	3.665	3.688	VV	56837	629177	1.84%	0.047%
15	3.717	3.688	3.749	VV	118383	1979811	5.78%	0.149%
16	3.764	3.749	3.794	VV	77272	1061782	3.10%	0.080%
17	3.810	3.794	3.830	VV	100673	958212	2.80%	0.072%
18	3.858	3.830	3.904	VV	106900	2356475	6.88%	0.177%
19	3.940	3.904	3.954	VV	223649	2730924	7.98%	0.205%
20	3.968	3.954	3.987	VV	220852	2261534	6.61%	0.170%
21	4.002	3.987	4.018	VV	87855	1190386	3.48%	0.089%
22	4.035	4.018	4.057	VV	231025	2512257	7.34%	0.189%
23	4.118	4.057	4.130	VV	139515	2575320	7.52%	0.194%
24	4.144	4.130	4.168	VV	177762	2338329	6.83%	0.176%
25	4.179	4.168	4.192	VV	71528	829562	2.42%	0.062%
26	4.200	4.192	4.220	VV	49884	505264	1.48%	0.038%
27	4.251	4.220	4.271	VV	100382	1512706	4.42%	0.114%
28	4.292	4.271	4.315	VV	107155	1700504	4.97%	0.128%
29	4.343	4.315	4.367	VV	1343909	13292338	38.83%	0.999%
30	4.377	4.367	4.392	VV	43980	497197	1.45%	0.037%
31	4.410	4.392	4.429	VV	73950	984080	2.87%	0.074%
32	4.455	4.429	4.472	VV	37793	793375	2.32%	0.060%
33	4.505	4.472	4.520	VV	93912	1836865	5.37%	0.138%
34	4.536	4.520	4.551	VV	132147	1825397	5.33%	0.137%
35	4.562	4.551	4.575	VV	93079	1117235	3.26%	0.084%
36	4.594	4.575	4.609	VV	469568	4780416	13.97%	0.359%

Instrument :
FID_C
ClientSampleId :
PT-NJEPH-SOIL

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 10/29/2024
Supervised By :Ankita Jodhani 10/29/2024

rteres

37	4.620	4.609	4.635	VV	247674	2500749	7.31%	0.188%
38	4.670	4.635	4.690	VV	187509	3965812	11	
39	4.713	4.690	4.728	VV	172493	2342062	6	
40	4.751	4.728	4.776	VV	219545	3952538	11	
41	4.808	4.776	4.840	VV	291383	4634934	13	
42	4.860	4.840	4.875	VV	107140	1641039	4	
43	4.894	4.875	4.917	VV	110704	1946876	5.69%	0.146%
44	4.948	4.917	4.963	VV	231930	3261817	9.53%	0.245%
45	4.979	4.963	4.999	VV	262603	3262764	9.53%	0.245%
46	5.018	4.999	5.041	VV	306357	3882338	11.34%	0.292%
47	5.080	5.041	5.118	VV	313288	5891314	17.21%	0.443%
48	5.134	5.118	5.153	VV	73229	1227419	3.59%	0.092%
49	5.175	5.153	5.209	VV	182918	4111037	12.01%	0.309%
50	5.236	5.209	5.251	VV	198465	3581836	10.46%	0.269%
51	5.265	5.251	5.279	VV	168885	2110918	6.17%	0.159%
52	5.294	5.279	5.310	VV	138771	2191381	6.40%	0.165%
53	5.324	5.310	5.341	VV	130723	1943838	5.68%	0.146%
54	5.383	5.341	5.428	VV	1877232	24958652	72.91%	1.876%
55	5.445	5.428	5.480	VV	107412	2440588	7.13%	0.183%
56	5.500	5.480	5.514	VV	102756	1790591	5.23%	0.135%
57	5.524	5.514	5.536	VV	99367	1212694	3.54%	0.091%
58	5.558	5.536	5.598	VV	391856	6770398	19.78%	0.509%
59	5.632	5.598	5.644	VV	155133	3200542	9.35%	0.241%
60	5.669	5.644	5.704	VV	324571	7025020	20.52%	0.528%
61	5.722	5.704	5.735	VV	200582	2457303	7.18%	0.185%
62	5.744	5.735	5.753	VV	142984	1422118	4.15%	0.107%
63	5.767	5.753	5.804	VV	171358	4010800	11.72%	0.301%
64	5.828	5.804	5.849	VV	158285	3058392	8.93%	0.230%
65	5.877	5.849	5.898	VV	179998	3884964	11.35%	0.292%
66	5.928	5.898	5.952	VV	301856	6422653	18.76%	0.483%
67	5.972	5.952	5.993	VV	318117	4665939	13.63%	0.351%
68	6.017	5.993	6.041	VV	378463	5616314	16.41%	0.422%
69	6.078	6.041	6.094	VV	320211	5823055	17.01%	0.438%
70	6.104	6.094	6.127	VV	174515	2842276	8.30%	0.214%
71	6.163	6.127	6.176	VV	169383	3847294	11.24%	0.289%
72	6.192	6.176	6.218	VV	231202	4272597	12.48%	0.321%
73	6.238	6.218	6.263	VV	226706	4718475	13.78%	0.355%
74	6.286	6.263	6.303	VV	209133	4159330	12.15%	0.313%
75	6.365	6.303	6.407	VV	1785947	26615347	77.75%	2.000%
76	6.418	6.407	6.434	VV	133095	1878135	5.49%	0.141%
77	6.508	6.434	6.534	VV	726190	14515645	42.41%	1.091%
78	6.547	6.534	6.565	VV	227585	3496431	10.21%	0.263%
79	6.577	6.565	6.600	VV	196538	3188343	9.31%	0.240%
80	6.627	6.600	6.653	VV	198477	5112574	14.94%	0.384%
81	6.679	6.653	6.703	VV	302866	6290337	18.38%	0.473%
82	6.713	6.703	6.727	VV	206406	2497014	7.29%	0.188%
83	6.752	6.727	6.783	VV	204916	5246745	15.33%	0.394%
84	6.815	6.783	6.835	VV	187094	4733068	13.83%	0.356%
85	6.873	6.835	6.895	VV	318534	8540423	24.95%	0.642%
86	6.915	6.895	6.938	VV	329729	5590397	16.33%	0.420%
87	6.960	6.938	6.998	VV	375306	7609169	22.23%	0.572%
88	7.017	6.998	7.036	VV	335524	4995789	14.59%	0.375%
89	7.060	7.036	7.095	VV	571914	9732542	28.43%	0.731%

Instrument :
FID_C
ClientSampleId :
PT-NJEPH-SOIL

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 10/29/2024
Supervised By :Ankita Jodhani 10/29/2024

rteres

90	7.112	7.095	7.132	VV	191793	3634813	10.62%	0.273%
91	7.158	7.132	7.176	VV	285225	5206715	15	
92	7.195	7.176	7.216	VV	193473	4332469	12	
93	7.289	7.216	7.310	VV	1859656	29423746	85	
94	7.331	7.310	7.357	VV	180758	4509791	13	
95	7.372	7.357	7.380	VV	180646	2337594	6	
96	7.400	7.380	7.427	VV	221577	5221630	15.25%	0.392%
97	7.453	7.427	7.484	VV	407994	8572088	25.04%	0.644%
98	7.497	7.484	7.521	VV	161292	3269493	9.55%	0.246%
99	7.541	7.521	7.555	VV	165392	2950691	8.62%	0.222%
100	7.617	7.555	7.632	VV	291147	9294741	27.15%	0.699%
101	7.648	7.632	7.683	VV	255854	5841345	17.06%	0.439%
102	7.706	7.683	7.718	VV	242551	4017057	11.74%	0.302%
103	7.735	7.718	7.748	VV	302330	4585207	13.40%	0.345%
104	7.758	7.748	7.777	VV	275157	3864003	11.29%	0.290%
105	7.801	7.777	7.821	VV	303367	5810013	16.97%	0.437%
106	7.847	7.821	7.872	VV	427212	8102195	23.67%	0.609%
107	7.902	7.872	7.926	VV	331393	6956449	20.32%	0.523%
108	7.942	7.926	7.951	VV	184485	2490196	7.27%	0.187%
109	7.974	7.951	7.998	VV	644761	9726852	28.42%	0.731%
110	8.019	7.998	8.040	VV	216545	4819346	14.08%	0.362%
111	8.061	8.040	8.080	VV	268231	5029808	14.69%	0.378%
112	8.160	8.080	8.181	VV	1870247	32043463	93.61%	2.408%
113	8.200	8.181	8.224	VV	323405	6080497	17.76%	0.457%
114	8.247	8.224	8.275	VV	239264	6145403	17.95%	0.462%
115	8.299	8.275	8.322	VV	258169	6341416	18.53%	0.477%
116	8.341	8.322	8.352	VV	218286	3676501	10.74%	0.276%
117	8.364	8.352	8.383	VV	216658	3728464	10.89%	0.280%
118	8.395	8.383	8.411	VV	201654	3089562	9.03%	0.232%
119	8.444	8.411	8.464	VV	225919	6494887	18.97%	0.488%
120	8.476	8.464	8.488	VV	200119	2696389	7.88%	0.203%
121	8.508	8.488	8.544	VV	316960	8666042	25.32%	0.651%
122	8.569	8.544	8.585	VV	303887	6292455	18.38%	0.473%
123	8.600	8.585	8.622	VV	312879	5631842	16.45%	0.423%
124	8.641	8.622	8.658	VV	323811	5552821	16.22%	0.417%
125	8.690	8.658	8.714	VV	880581	14703677	42.96%	1.105%
126	8.739	8.714	8.756	VV	379814	6723162	19.64%	0.505%
127	8.763	8.756	8.786	VV	238506	3759020	10.98%	0.283%
128	8.833	8.786	8.852	VV	263414	8215747	24.00%	0.617%
129	8.864	8.852	8.883	VV	200946	3601337	10.52%	0.271%
130	8.912	8.883	8.931	VV	286561	6965354	20.35%	0.523%
131	8.981	8.931	9.032	VV	1924097	34230386	100.00%	2.573%
132	9.056	9.032	9.079	VV	279726	6441530	18.82%	0.484%
133	9.112	9.079	9.143	VV	230303	7682030	22.44%	0.577%
134	9.172	9.143	9.185	VV	221119	4835870	14.13%	0.363%
135	9.203	9.185	9.240	VV	238137	7062478	20.63%	0.531%
136	9.257	9.240	9.285	VV	219021	5597856	16.35%	0.421%
137	9.300	9.285	9.317	VV	213285	3846457	11.24%	0.289%
138	9.346	9.317	9.377	VV	523384	12324142	36.00%	0.926%
139	9.389	9.377	9.404	VV	274102	4156007	12.14%	0.312%
140	9.430	9.404	9.452	VV	369936	8166748	23.86%	0.614%
141	9.477	9.452	9.494	VV	399414	7430739	21.71%	0.558%

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rteres

142	9.508	9.494	9.517	VV	303622	3755822	10.97%	0.282%
143	9.529	9.517	9.552	VV	342631	5635090	16	
144	9.593	9.552	9.622	VV	192646	7649326	22	
145	9.631	9.622	9.640	VV	176094	1849499	5	
146	9.663	9.640	9.680	VV	219130	4826592	14	
147	9.705	9.680	9.726	VV	356026	7812090	22	
148	9.759	9.726	9.796	VV	1870697	29469080	86.09%	2.215%
149	9.825	9.796	9.843	VV	251829	6745053	19.70%	0.507%
150	9.853	9.843	9.895	VV	245423	6620986	19.34%	0.498%
151	9.919	9.895	9.943	VV	215563	5691368	16.63%	0.428%
152	9.962	9.943	9.970	VV	213290	3273330	9.56%	0.246%
153	9.983	9.970	10.008	VV	216864	4612553	13.48%	0.347%
154	10.024	10.008	10.063	VV	226186	6720377	19.63%	0.505%
155	10.097	10.063	10.109	VV	311833	6749238	19.72%	0.507%
156	10.139	10.109	10.167	VV	837681	17044090	49.79%	1.281%
157	10.187	10.167	10.206	VV	311234	6104283	17.83%	0.459%
158	10.226	10.206	10.255	VV	357734	7690452	22.47%	0.578%
159	10.282	10.255	10.308	VV	370292	8071465	23.58%	0.607%
160	10.322	10.308	10.358	VV	186638	5319974	15.54%	0.400%
161	10.418	10.358	10.443	VV	240600	10299679	30.09%	0.774%
162	10.497	10.443	10.528	VV	1743641	30229013	88.31%	2.272%
163	10.565	10.528	10.591	VV	881718	17384042	50.79%	1.306%
164	10.603	10.591	10.641	VV	242552	6387766	18.66%	0.480%
165	10.674	10.641	10.709	VV	211507	8148268	23.80%	0.612%
166	10.751	10.709	10.780	VV	213565	8682714	25.37%	0.653%
167	10.810	10.780	10.846	VV	291177	9969163	29.12%	0.749%
168	10.877	10.846	10.919	VV	411524	12638141	36.92%	0.950%
169	10.940	10.919	10.972	VV	309539	7434615	21.72%	0.559%
170	10.992	10.972	11.031	VV	277977	7717467	22.55%	0.580%
171	11.041	11.031	11.070	VV	192819	4338713	12.68%	0.326%
172	11.128	11.070	11.161	VV	204091	10496549	30.66%	0.789%
173	11.197	11.161	11.224	VV	1413796	22447687	65.58%	1.687%
174	11.234	11.224	11.250	VV	214204	3273920	9.56%	0.246%
175	11.282	11.250	11.319	VV	634479	14076180	41.12%	1.058%
176	11.341	11.319	11.368	VV	198836	5234277	15.29%	0.393%
177	11.385	11.368	11.406	VV	184501	3944635	11.52%	0.296%
178	11.484	11.406	11.526	VV	267246	14984556	43.78%	1.126%
179	11.544	11.526	11.558	VV	207951	3750173	10.96%	0.282%
180	11.582	11.558	11.604	VV	288972	6383514	18.65%	0.480%
181	11.621	11.604	11.649	VV	243340	5424378	15.85%	0.408%
182	11.672	11.649	11.721	VV	231267	7875829	23.01%	0.592%
183	11.741	11.721	11.773	VV	177896	5273359	15.41%	0.396%
184	11.794	11.773	11.807	VV	165842	3260389	9.52%	0.245%
185	11.863	11.807	11.891	VV	1146712	21827713	63.77%	1.640%
186	11.900	11.891	11.921	VV	181992	3172346	9.27%	0.238%
187	11.929	11.921	11.948	VV	172829	2740245	8.01%	0.206%
188	11.964	11.948	12.027	VV	179355	7612864	22.24%	0.572%
189	12.054	12.027	12.098	VV	159866	6350198	18.55%	0.477%
190	12.129	12.098	12.179	VV	199950	8270685	24.16%	0.622%
191	12.192	12.179	12.210	VV	158999	2825095	8.25%	0.212%
192	12.236	12.210	12.249	VV	185005	3990013	11.66%	0.300%
193	12.266	12.249	12.297	VV	226809	4978861	14.55%	0.374%
194	12.318	12.297	12.341	VV	176035	4001747	11.69%	0.301%

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rteres

195	12.355	12.341	12.391	VV	138785	4019721	11.74%	0.302%
196	12.417	12.391	12.462	VV	159106	5883902	17	
197	12.498	12.462	12.538	VV	876509	14956168	43	
198	12.555	12.538	12.598	VV	147138	4752957	13	
199	12.608	12.598	12.620	VV	125358	1685536	4	
200	12.639	12.620	12.685	VV	137336	4650251	13	
201	12.710	12.685	12.721	VV	114613	2380528	6.95%	0.179%
202	12.746	12.721	12.801	VV	143589	6115283	17.87%	0.460%
203	12.815	12.801	12.835	VV	125012	2347828	6.86%	0.176%
204	12.854	12.835	12.871	VV	130743	2576875	7.53%	0.194%
205	12.886	12.871	12.914	VV	148410	3461781	10.11%	0.260%
206	12.937	12.914	12.965	VV	502724	8151233	23.81%	0.613%
207	12.989	12.965	13.022	VV	144477	4081840	11.92%	0.307%
208	13.042	13.022	13.068	VV	102795	2700990	7.89%	0.203%
209	13.106	13.068	13.133	VV	553570	9475738	27.68%	0.712%
210	13.147	13.133	13.162	VV	104877	1745512	5.10%	0.131%
211	13.174	13.162	13.195	VV	104351	1991215	5.82%	0.150%
212	13.203	13.195	13.226	VV	94787	1647050	4.81%	0.124%
213	13.238	13.226	13.251	VV	87420	1298273	3.79%	0.098%
214	13.267	13.251	13.294	VV	89329	2133869	6.23%	0.160%
215	13.335	13.294	13.368	VV	118105	4329300	12.65%	0.325%
216	13.376	13.368	13.394	VV	98741	1481984	4.33%	0.111%
217	13.410	13.394	13.428	VV	90260	1702283	4.97%	0.128%
218	13.449	13.428	13.464	VV	92110	1868103	5.46%	0.140%
219	13.482	13.464	13.504	VV	99199	2130448	6.22%	0.160%
220	13.525	13.504	13.559	VV	106221	2942882	8.60%	0.221%
221	13.596	13.559	13.647	VV	80648	3906855	11.41%	0.294%
222	13.689	13.647	13.724	VV	376142	6854225	20.02%	0.515%
223	13.744	13.724	13.758	VV	73344	1399210	4.09%	0.105%
224	13.771	13.758	13.820	VV	73162	2452559	7.16%	0.184%
225	13.833	13.820	13.854	VV	63811	1241843	3.63%	0.093%
226	13.864	13.854	13.876	VV	58765	758757	2.22%	0.057%
227	13.916	13.876	13.945	VV	81917	2912610	8.51%	0.219%
228	13.953	13.945	13.967	VV	64826	831609	2.43%	0.062%
229	13.980	13.967	14.000	VV	63070	1179228	3.44%	0.089%
230	14.014	14.000	14.030	VV	59120	1035519	3.03%	0.078%
231	14.049	14.030	14.063	VV	65420	1176024	3.44%	0.088%
232	14.074	14.063	14.083	VV	61959	750259	2.19%	0.056%
233	14.099	14.083	14.136	VV	65461	1803622	5.27%	0.136%
234	14.154	14.136	14.173	VV	50622	1077094	3.15%	0.081%
235	14.185	14.173	14.213	VV	50663	1132685	3.31%	0.085%
236	14.248	14.213	14.291	VV	217909	4223121	12.34%	0.317%
237	14.314	14.291	14.355	VV	49696	1790531	5.23%	0.135%
238	14.371	14.355	14.422	VV	46337	1666010	4.87%	0.125%
239	14.452	14.422	14.471	VV	46341	1254182	3.66%	0.094%
240	14.488	14.471	14.514	VV	42598	1079270	3.15%	0.081%
241	14.524	14.514	14.548	VV	39773	771894	2.25%	0.058%
242	14.566	14.548	14.581	VV	38171	706222	2.06%	0.053%
243	14.597	14.581	14.616	VV	40281	776911	2.27%	0.058%
244	14.640	14.616	14.659	VV	40446	949227	2.77%	0.071%
245	14.669	14.659	14.731	VV	35101	1376277	4.02%	0.103%
246	14.743	14.731	14.756	VV	29238	432639	1.26%	0.033%

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247	14.787	14.756	14.818	VV	125287	2256946	6.59%	0.170%
248	14.846	14.818	14.911	VV	29995	1579348		
249	14.920	14.911	14.954	VV	26196	629507		
250	14.981	14.954	15.013	VV	27782	922609		
251	15.032	15.013	15.078	VV	25667	937246		
252	15.123	15.078	15.154	VV	24679	1027258		
253	15.170	15.154	15.194	VV	23915	519162	1.52%	0.039%
254	15.209	15.194	15.248	VV	21587	627753	1.83%	0.047%
255	15.251	15.248	15.272	VV	18226	258183	0.75%	0.019%
256	15.305	15.272	15.341	VV	63833	1365674	3.99%	0.103%
257	15.350	15.341	15.377	VV	19798	394564	1.15%	0.030%
258	15.387	15.377	15.454	VV	17272	731812	2.14%	0.055%
259	15.485	15.454	15.504	VV	17092	453468	1.32%	0.034%
260	15.519	15.504	15.551	VV	15574	421963	1.23%	0.032%
261	15.557	15.551	15.581	VV	14502	254205	0.74%	0.019%
262	15.618	15.581	15.657	VV	15962	651620	1.90%	0.049%
263	15.674	15.657	15.713	VV	14039	430713	1.26%	0.032%
264	15.731	15.713	15.748	VV	11936	237937	0.70%	0.018%
265	15.804	15.748	15.884	VV	36315	1229425	3.59%	0.092%
266	15.893	15.884	15.953	VV	9832	387183	1.13%	0.029%
267	15.983	15.953	16.069	VV	10984	654885	1.91%	0.049%
268	16.114	16.069	16.138	VV	9661	367585	1.07%	0.028%
269	16.161	16.138	16.210	VV	9138	356007	1.04%	0.027%
270	16.232	16.210	16.258	VV	7501	206626	0.60%	0.016%
271	16.285	16.258	16.418	VV	23513	860405	2.51%	0.065%
272	16.446	16.418	16.498	VV	7092	315512	0.92%	0.024%
273	16.513	16.498	16.539	VV	6458	153853	0.45%	0.012%
274	16.556	16.539	16.566	VV	6161	99916	0.29%	0.008%
275	16.587	16.566	16.609	VV	6428	157538	0.46%	0.012%
276	16.625	16.609	16.658	VV	6329	168099	0.49%	0.013%
277	16.667	16.658	16.685	VV	5392	84230	0.25%	0.006%
278	16.752	16.685	16.828	VV	14603	593113	1.73%	0.045%
279	16.845	16.828	16.861	VV	4931	94916	0.28%	0.007%
280	16.907	16.861	16.948	VV	5142	253086	0.74%	0.019%
281	16.973	16.948	17.009	VV	5246	176728	0.52%	0.013%
282	17.042	17.009	17.114	VV	4919	280889	0.82%	0.021%
283	17.134	17.114	17.151	VV	4264	92420	0.27%	0.007%
284	17.162	17.151	17.167	VV	4216	38445	0.11%	0.003%
285	17.202	17.167	17.251	VV	26115	515125	1.50%	0.039%
286	17.267	17.251	17.283	VV	4009	74314	0.22%	0.006%
287	17.311	17.283	17.322	VV	4362	96637	0.28%	0.007%
288	17.328	17.322	17.358	VV	4241	88004	0.26%	0.007%
289	17.377	17.358	17.408	VV	3986	114171	0.33%	0.009%
290	17.409	17.408	17.442	VV	3856	74895	0.22%	0.006%
291	17.482	17.442	17.510	VV	3823	148879	0.43%	0.011%
292	17.528	17.510	17.552	VV	3986	94817	0.28%	0.007%
293	17.567	17.552	17.578	VV	3648	53932	0.16%	0.004%
294	17.637	17.578	17.711	VV	8579	360019	1.05%	0.027%
295	17.773	17.711	17.871	VV	4058	298192	0.87%	0.022%
296	17.882	17.871	17.891	VV	2541	30568	0.09%	0.002%
297	17.929	17.891	17.994	VV	3369	177028	0.52%	0.013%
298	18.060	17.994	18.108	VV	39759	689458	2.01%	0.052%
299	18.138	18.108	18.164	VV	3287	92637	0.27%	0.007%

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300	18.172	18.164	18.185	VV	2445	28796	0.08%	0.002%
301	18.196	18.185	18.234	VV	2387	65718		
302	18.255	18.234	18.294	VV	2282	78057		
303	18.312	18.294	18.321	VV	2349	36731		
304	18.332	18.321	18.347	VV	2446	35807		
305	18.368	18.347	18.402	VV	2442	74706		
306	18.469	18.402	18.531	VV	6125	246468	0.72%	0.019%
307	18.563	18.531	18.590	VV	2781	88202	0.26%	0.007%
308	18.611	18.590	18.631	VV	2885	63448	0.19%	0.005%
309	18.644	18.631	18.704	VV	2505	105213	0.31%	0.008%
310	18.729	18.704	18.751	VV	2739	71788	0.21%	0.005%
311	18.771	18.751	18.808	VV	3640	99342	0.29%	0.007%
312	18.866	18.808	18.928	VV	16492	403143	1.18%	0.030%
313	18.960	18.928	18.997	VV	3026	115058	0.34%	0.009%
314	19.047	18.997	19.084	VV	3254	161779	0.47%	0.012%
315	19.095	19.084	19.108	VV	3152	44171	0.13%	0.003%
316	19.114	19.108	19.148	VV	3170	71730	0.21%	0.005%
317	19.161	19.148	19.188	VV	3078	70973	0.21%	0.005%
318	19.250	19.188	19.312	VV	5307	271361	0.79%	0.020%
319	19.361	19.312	19.388	VV	3248	140055	0.41%	0.011%
320	19.553	19.388	19.585	VV	4276	441976	1.29%	0.033%
321	19.625	19.585	19.648	VV	6631	196507	0.57%	0.015%
322	19.712	19.648	19.722	VV	5432	231932	0.68%	0.017%
323	19.857	19.722	19.946	VV	7503	860437	2.51%	0.065%
324	19.990	19.946	20.015	VV	7007	254314	0.74%	0.019%
325	20.044	20.015	20.085	VV	6591	264309	0.77%	0.020%
326	20.155	20.085	20.202	VV	6475	437064	1.28%	0.033%
327	20.264	20.202	20.284	VV	6588	311807	0.91%	0.023%
328	20.345	20.284	20.374	VV	7699	375909	1.10%	0.028%
329	20.519	20.374	20.578	VV	7662	871008	2.54%	0.065%
330	20.581	20.578	20.608	VV	7230	127732	0.37%	0.010%
331	20.618	20.608	20.668	VV	7172	252078	0.74%	0.019%
332	20.709	20.668	20.791	VV	7960	524412	1.53%	0.039%
333	20.898	20.791	20.991	VV	7099	812627	2.37%	0.061%
334	21.041	20.991	21.102	VV	7229	458937	1.34%	0.034%
335	21.123	21.102	21.172	VV	7022	284655	0.83%	0.021%
336	21.239	21.172	21.281	VV	6735	434317	1.27%	0.033%
337	21.307	21.281	21.385	VV	6810	412774	1.21%	0.031%
338	21.403	21.385	21.422	VV	6484	141636	0.41%	0.011%
339	21.441	21.422	21.488	VV	6429	255390	0.75%	0.019%
340	21.504	21.488	21.521	VV	6576	129943	0.38%	0.010%
341	21.595	21.521	21.632	VV	7288	456130	1.33%	0.034%
342	21.641	21.632	21.648	VV	6571	63425	0.19%	0.005%
343	21.658	21.648	21.761	VV	6632	417100	1.22%	0.031%
344	21.771	21.761	21.801	VBA	5988	147020	0.43%	0.011%

Sum of corrected areas: 1330587687

Aliphatic EPH 102324.M Tue Oct 29 05:09:32 2024

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

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	10/21/24
Project:	NJ Soil PT	Date Received:	10/23/24
Client Sample ID:	PT-NJEPH-SOIL	SDG No.:	P4495
Lab Sample ID:	P4495-16	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	100
Sample Wt/Vol:	20.27 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FD048598.D	1	10/25/24	10/28/24	PB164396

CAS Number	Parameter		Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
Aromatic C10-C12	Aromatic C10-C12		33.7	E	0.44	0.99	mg/kg
Aromatic C12-C16	Aromatic C12-C16		117	E	0.50	1.48	mg/kg
Aromatic C16-C21	Aromatic C16-C21		192	E	1.42	2.47	mg/kg
Aromatic C21-C36	Aromatic C21-C36		42.3		2.96	3.95	mg/kg
SURROGATES							
580-13-2	2-Bromonaphthalene (SURR)		64.9		40 - 140	130%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)		61.6		40 - 140	123%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)		52.8		40 - 140	106%	SPK: 50

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

Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	P4495-16	Acq On:	28 Oct 2024 10:32
Client Sample ID:	PT-NJEPH-SOIL	Operator:	YP/AJ
Data file:	FD048598.D	Misc:	
Instrument:	FID_D	ALS Vial:	61
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.094	5.812	60142570	341.326	200	ug/ml
Aromatic C12-C16	5.813	8.417	210868072	1190	300	ug/ml
Aromatic C16-C21	8.418	12.677	319145650	1950	500	ug/ml
Aromatic C21-C36	12.678	18.081	65472370	428.728	800	ug/ml
Aromatic EPH	4.094	18.081	655628662	3910		ug/ml
ortho-Terphenyl (SURR)	11.262	11.262	8995694	52.81		ug/ml
2-Bromonaphthalene (SURR)	7.375	7.375	9843972	64.86		ug/ml
2-Flurobiphenyl (SURR)	8.227	8.227	6045437	61.57		ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD102824AR\
Data File : FD048598.D
Signal(s) : FID2B.ch
Acq On : 28 Oct 2024 10:32
Operator : YP/AJ
Sample : P4495-16
Misc :
ALS Vial : 61 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
PT-NJEPH-SOIL

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 10/29/2024
Supervised By :Ankita Jodhani 10/29/2024

Integration File: autoint1.e
Quant Time: Oct 29 00:21:52 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 18:14:59 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) S 2-Bromonaphthalene (S...	7.375	9843972	64.857 ug/mlm
Spiked Amount 50.000		Recovery = 129.71%	
6) S 2-Flurobiphenyl (SURR)	8.227	6045437	61.568 ug/mlm
Spiked Amount 50.000 Range 0 - 131		Recovery = 123.14%	
11) S ortho-Terphenyl (SURR)	11.262	8995694	52.810 ug/mlm
Spiked Amount 50.000		Recovery = 105.62%	
Target Compounds			

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

Quantitation Report (QT Reviewed)

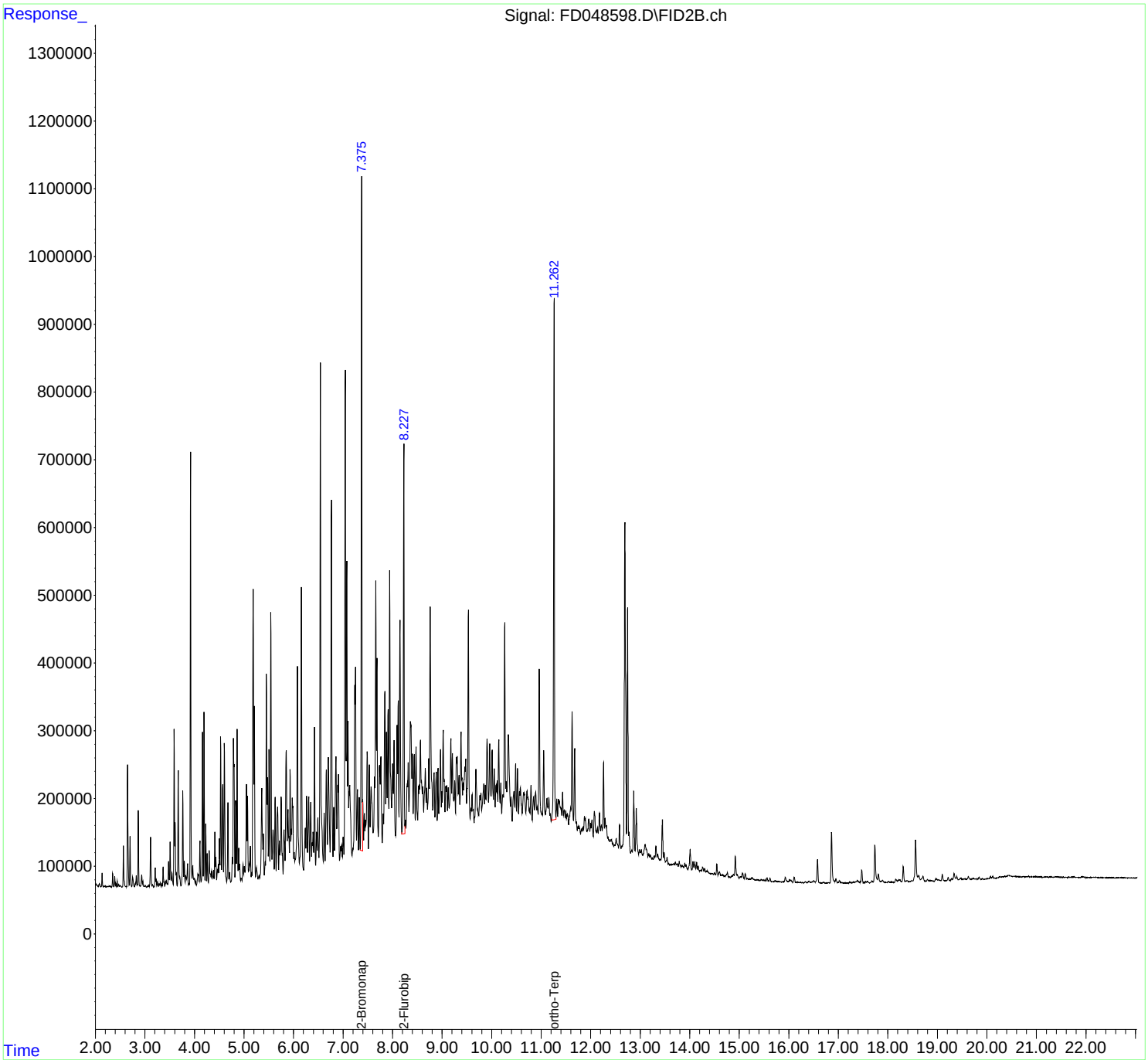
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD102824AR\
Data File : FD048598.D
Signal(s) : FID2B.ch
Acq On : 28 Oct 2024 10:32
Operator : YP/AJ
Sample : P4495-16
Misc :
ALS Vial : 61 Sample Multiplier: 1

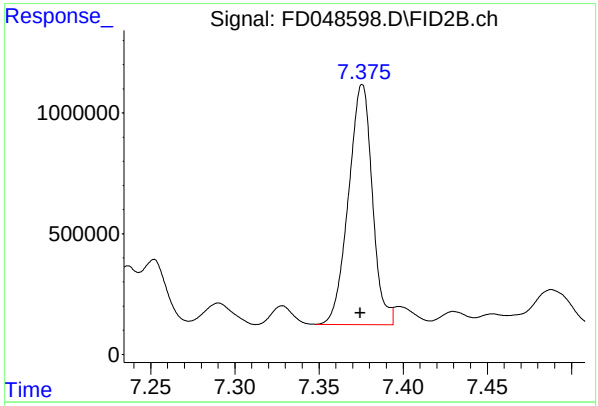
Integration File: autoint1.e
Quant Time: Oct 29 00:21:52 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 18:14:59 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

Instrument :
FID_D
ClientSampleId :
PT-NJEPH-SOIL

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 10/29/2024
Supervised By :Ankita Jodhani 10/29/2024





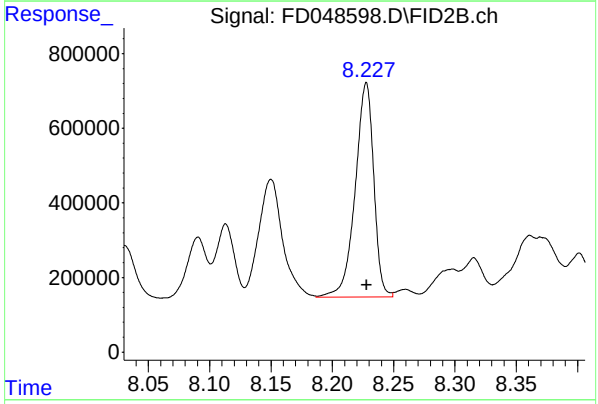
#4 2-Bromonaphthalene (SURR)

R.T.: 7.375 min
Delta R.T.: 0.000 mi
Response: 9843972
Conc: 64.86 ug/m

Instrument :
FID_D
ClientSampleId :
PT-NJEPH-SOIL

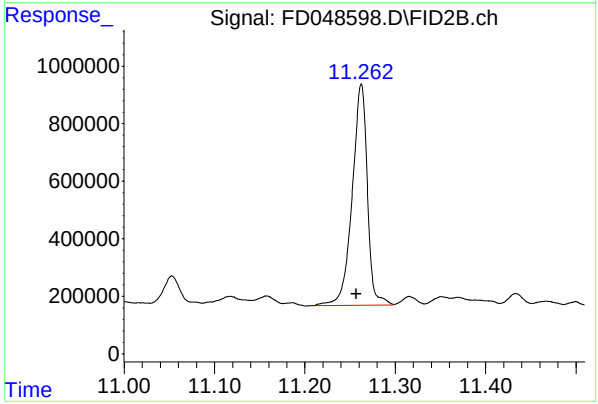
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/29/2024
Supervised By :Ankita Jodhani 10/29/2024



#6 2-Flurobiphenyl (SURR)

R.T.: 8.227 min
Delta R.T.: 0.000 min
Response: 6045437
Conc: 61.57 ug/ml m



#11 ortho-Terphenyl (SURR)

R.T.: 11.262 min
Delta R.T.: 0.005 min
Response: 8995694
Conc: 52.81 ug/ml m

Instrument :
FID_D
ClientSampleId :
PT-NJEPH-SOIL

rteres

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 10/29/2024
Supervised By :Ankita Jodhani 10/29/2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD10282
Data File : FD048598.D
Signal(s) : FID2B.ch
Acq On : 28 Oct 2024 10:32
Sample : P4495-16
Misc :
ALS Vial : 61 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 102324.M
Title : GC Extractables

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.109	4.102	4.133	PH	58884	463239	3.21%	0.071%
2	4.162	4.133	4.178	PV	219537	1867548	12.96%	0.285%
3	4.193	4.178	4.212	VV	250106	2081031	14.44%	0.317%
4	4.228	4.212	4.244	VV	86075	715192	4.96%	0.109%
5	4.257	4.244	4.282	VV	42649	362853	2.52%	0.055%
6	4.297	4.282	4.335	PV	47260	590476	4.10%	0.090%
7	4.347	4.335	4.371	VV	17213	241329	1.67%	0.037%
8	4.385	4.371	4.396	VV	18606	177944	1.23%	0.027%
9	4.412	4.396	4.424	VV	74828	686285	4.76%	0.105%
10	4.432	4.424	4.447	VV	37410	314903	2.18%	0.048%
11	4.463	4.447	4.471	VV	18956	193219	1.34%	0.029%
12	4.482	4.471	4.491	VV	27888	258302	1.79%	0.039%
13	4.503	4.491	4.514	VV	64660	572957	3.97%	0.087%
14	4.529	4.514	4.547	VV	215110	1956089	13.57%	0.298%
15	4.569	4.547	4.588	VV	145018	1803183	12.51%	0.275%
16	4.604	4.588	4.650	VV	205398	2372442	16.46%	0.362%
17	4.676	4.650	4.695	VV	118028	1092903	7.58%	0.167%
18	4.707	4.695	4.732	VV	15174	169429	1.18%	0.026%
19	4.764	4.732	4.771	VV	38029	339240	2.35%	0.052%
20	4.787	4.771	4.817	VV	212652	3290251	22.82%	0.501%
21	4.833	4.817	4.846	VV	120793	1125358	7.81%	0.172%
22	4.861	4.846	4.880	VV	226932	2133073	14.80%	0.325%
23	4.893	4.880	4.905	VV	51129	512144	3.55%	0.078%
24	4.913	4.905	4.929	VV	27671	243875	1.69%	0.037%
25	4.941	4.929	4.960	VV	6645	95438	0.66%	0.015%
26	4.980	4.960	4.993	VV	27129	337184	2.34%	0.051%
27	5.005	4.993	5.022	VV	24135	307968	2.14%	0.047%
28	5.049	5.022	5.061	VV	145311	1666938	11.56%	0.254%
29	5.071	5.061	5.089	VV	127767	1242364	8.62%	0.189%
30	5.111	5.089	5.117	VV	27929	365952	2.54%	0.056%
31	5.128	5.117	5.144	VV	53882	541512	3.76%	0.083%
32	5.153	5.144	5.160	VV	14301	117335	0.81%	0.018%
33	5.185	5.160	5.200	VV	433385	5248022	36.41%	0.800%
34	5.210	5.200	5.232	VV	260358	2429574	16.85%	0.370%
35	5.249	5.232	5.283	VV	22363	427407	2.96%	0.065%
36	5.304	5.283	5.316	VV	10601	160268	1.11%	0.024%

Instrument :
FID_D
ClientSampleId :
PT-NJEPH-SOIL

Manual IntegrationsAPPROVED

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rteres

37	5.359	5.316	5.382	VV	139191	2306806	16.00%	0.352%
38	5.392	5.382	5.410	VV	72160	733804	5	
39	5.428	5.410	5.435	VV	31458	344597	2	
40	5.452	5.435	5.467	VV	307761	3159758	21	
41	5.477	5.467	5.492	VV	155278	1675997	11	
42	5.506	5.492	5.523	VV	196779	1901556	13	
43	5.543	5.523	5.564	VV	399609	4149429	28.78%	0.632%
44	5.587	5.564	5.611	VV	78335	1476153	10.24%	0.225%
45	5.629	5.611	5.648	VV	126047	1499937	10.40%	0.229%
46	5.678	5.648	5.700	VV	111886	2166009	15.03%	0.330%
47	5.713	5.700	5.725	VV	61707	660581	4.58%	0.101%
48	5.751	5.725	5.790	VV	126650	2293078	15.91%	0.349%
49	5.807	5.790	5.831	VV	78075	1271638	8.82%	0.194%
50	5.852	5.831	5.873	VV	194863	3104263	21.53%	0.473%
51	5.888	5.873	5.917	VV	108191	2054238	14.25%	0.313%
52	5.932	5.917	5.947	VV	166972	1798907	12.48%	0.274%
53	5.956	5.947	5.963	VV	79130	703185	4.88%	0.107%
54	5.975	5.963	6.004	VV	124962	2255000	15.64%	0.344%
55	6.013	6.004	6.026	VV	44890	499543	3.47%	0.076%
56	6.079	6.026	6.117	VV	319533	5160566	35.80%	0.786%
57	6.159	6.117	6.205	VV	436286	5798599	40.22%	0.884%
58	6.237	6.205	6.249	VV	80616	1373955	9.53%	0.209%
59	6.265	6.249	6.281	VV	127944	1684452	11.68%	0.257%
60	6.307	6.281	6.325	VV	127098	2037707	14.14%	0.311%
61	6.348	6.325	6.365	VV	119371	1768116	12.27%	0.269%
62	6.377	6.365	6.383	VV	59289	581736	4.04%	0.089%
63	6.395	6.383	6.408	VV	75095	918182	6.37%	0.140%
64	6.424	6.408	6.447	VV	229395	2572864	17.85%	0.392%
65	6.466	6.447	6.478	VV	74887	996308	6.91%	0.152%
66	6.491	6.478	6.513	VV	96033	1388996	9.64%	0.212%
67	6.543	6.513	6.601	VV	769174	9964331	69.12%	1.519%
68	6.619	6.601	6.639	VV	102686	1417041	9.83%	0.216%
69	6.661	6.639	6.685	VV	166752	2771006	19.22%	0.422%
70	6.702	6.685	6.740	VV	185245	3713072	25.76%	0.566%
71	6.766	6.740	6.797	VV	564559	7668072	53.19%	1.169%
72	6.812	6.797	6.829	VV	111363	1391682	9.65%	0.212%
73	6.857	6.829	6.875	VV	186100	3383253	23.47%	0.516%
74	6.893	6.875	6.899	VV	144123	1659174	11.51%	0.253%
75	6.909	6.899	6.930	VV	160095	1911577	13.26%	0.291%
76	6.952	6.930	6.961	VV	53898	854785	5.93%	0.130%
77	6.972	6.961	6.985	VV	55824	693095	4.81%	0.106%
78	7.001	6.985	7.019	VV	67428	1087197	7.54%	0.166%
79	7.045	7.019	7.060	VV	755294	8476950	58.80%	1.292%
80	7.076	7.060	7.091	VV	473811	5800894	40.24%	0.884%
81	7.100	7.091	7.114	VV	238109	2411095	16.73%	0.367%
82	7.135	7.114	7.181	VV	144173	4027087	27.94%	0.614%
83	7.197	7.181	7.202	VV	51142	591703	4.10%	0.090%
84	7.237	7.202	7.243	VV	291748	3519555	24.41%	0.536%
85	7.252	7.243	7.273	VV	318565	3640975	25.26%	0.555%
86	7.290	7.273	7.313	VV	137841	2208061	15.32%	0.337%
87	7.328	7.313	7.348	VV	126347	1677814	11.64%	0.256%
88	7.376	7.348	7.416	VV	1044637	12459514	86.43%	1.899%
89	7.430	7.416	7.443	VV	102457	1362045	9.45%	0.208%

Instrument :
FID_D
ClientSampleId :
PT-NJEPH-SOIL

Manual IntegrationsAPPROVED

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Supervised By :Ankita Jodhani 10/29/2024

rteres

90	7.453	7.443	7.462	VV	92276	1009645	7.00%	0.154%
91	7.488	7.462	7.513	VV	193404	3792632	26	
92	7.531	7.513	7.547	VV	173997	2334675	16	
93	7.567	7.547	7.607	VV	141530	3990104	27	
94	7.636	7.607	7.644	VV	156695	2421978	16	
95	7.662	7.644	7.675	VV	444626	5312611	36	
96	7.685	7.675	7.713	VV	331372	4151255	28.80%	0.633%
97	7.734	7.713	7.752	VV	173398	3253990	22.57%	0.496%
98	7.764	7.752	7.792	VV	186227	2987404	20.72%	0.455%
99	7.811	7.792	7.820	VV	102246	1440165	9.99%	0.219%
100	7.845	7.820	7.863	VV	283111	4874139	33.81%	0.743%
101	7.877	7.863	7.891	VV	222723	2907527	20.17%	0.443%
102	7.909	7.891	7.924	VV	255644	3675353	25.50%	0.560%
103	7.942	7.924	7.982	VV	460928	7584598	52.61%	1.156%
104	8.002	7.982	8.015	VV	175697	2927581	20.31%	0.446%
105	8.030	8.015	8.060	VV	210386	3668404	25.45%	0.559%
106	8.091	8.060	8.101	VV	232600	3471018	24.08%	0.529%
107	8.113	8.101	8.129	VV	268464	3185982	22.10%	0.486%
108	8.150	8.129	8.188	VV	387804	6857059	47.57%	1.045%
109	8.228	8.188	8.248	VV	649421	8659536	60.07%	1.320%
110	8.260	8.248	8.271	VV	93034	1184374	8.22%	0.181%
111	8.298	8.271	8.303	VV	147365	2364688	16.40%	0.360%
112	8.315	8.303	8.331	VV	177524	2415114	16.75%	0.368%
113	8.361	8.331	8.390	VV	237296	6541836	45.38%	0.997%
114	8.401	8.390	8.417	VV	190735	2469809	17.13%	0.376%
115	8.438	8.417	8.458	VV	189802	3591738	24.92%	0.547%
116	8.474	8.458	8.507	VV	200437	3926586	27.24%	0.598%
117	8.524	8.507	8.533	VV	143419	1900960	13.19%	0.290%
118	8.541	8.533	8.548	VV	144617	1267154	8.79%	0.193%
119	8.563	8.548	8.579	VV	210482	3254190	22.57%	0.496%
120	8.584	8.579	8.601	VV	149674	1913085	13.27%	0.292%
121	8.611	8.601	8.628	VV	142264	2116167	14.68%	0.323%
122	8.661	8.628	8.678	VV	168470	4130380	28.65%	0.629%
123	8.690	8.678	8.705	VV	140228	2059070	14.28%	0.314%
124	8.732	8.705	8.742	VV	183463	3085489	21.40%	0.470%
125	8.760	8.742	8.811	VV	407326	8930256	61.95%	1.361%
126	8.838	8.811	8.857	VV	162920	3555901	24.67%	0.542%
127	8.884	8.857	8.902	VV	163898	3541509	24.57%	0.540%
128	8.917	8.902	8.933	VV	169350	2474328	17.16%	0.377%
129	8.969	8.933	8.985	VV	197144	4410439	30.59%	0.672%
130	8.996	8.985	9.005	VV	134707	1534563	10.65%	0.234%
131	9.022	9.005	9.037	VV	225314	3417086	23.70%	0.521%
132	9.041	9.037	9.059	VV	153737	1680895	11.66%	0.256%
133	9.075	9.059	9.085	VV	142662	2020455	14.02%	0.308%
134	9.094	9.085	9.109	VV	143718	1916899	13.30%	0.292%
135	9.124	9.109	9.141	VV	141059	2399464	16.64%	0.366%
136	9.177	9.141	9.193	VV	213324	4694106	32.56%	0.715%
137	9.209	9.193	9.240	VV	191003	4134457	28.68%	0.630%
138	9.256	9.240	9.271	VV	150952	2452655	17.01%	0.374%
139	9.290	9.271	9.297	VV	185380	2360835	16.38%	0.360%
140	9.305	9.297	9.327	VV	186590	2974368	20.63%	0.453%
141	9.342	9.327	9.358	VV	158928	2611395	18.12%	0.398%

Instrument :
FID_D
ClientSampleId :
PT-NJEPH-SOIL

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 10/29/2024
Supervised By :Ankita Jodhani 10/29/2024

rteres

142	9.383	9.358	9.413	VV	223203	5325238	36.94%	0.812%
143	9.424	9.413	9.433	VV	148380	1617167	11	
144	9.460	9.433	9.468	VV	170870	3326031	23	
145	9.478	9.468	9.495	VV	183404	2579180	17	
146	9.531	9.495	9.566	VV	402221	8031701	55	
147	9.584	9.566	9.591	VV	110545	1543840	10	
148	9.606	9.591	9.622	VV	130567	2179504	15.12%	0.332%
149	9.629	9.622	9.647	VV	108435	1515149	10.51%	0.231%
150	9.684	9.647	9.735	VV	168020	6350265	44.05%	0.968%
151	9.764	9.735	9.773	VV	129027	2598699	18.03%	0.396%
152	9.784	9.773	9.799	VV	132131	1876346	13.02%	0.286%
153	9.842	9.799	9.858	VV	146200	4494936	31.18%	0.685%
154	9.873	9.858	9.885	VV	144489	2128298	14.76%	0.324%
155	9.909	9.885	9.937	VV	211968	5127913	35.57%	0.782%
156	9.962	9.937	9.989	VV	205371	4817271	33.42%	0.734%
157	10.011	9.989	10.037	VV	196722	4392722	30.47%	0.669%
158	10.054	10.037	10.072	VV	168716	2917181	20.24%	0.445%
159	10.090	10.072	10.101	VV	144403	2326438	16.14%	0.355%
160	10.113	10.101	10.126	VV	151070	2106997	14.62%	0.321%
161	10.145	10.126	10.171	VV	211672	4267986	29.61%	0.650%
162	10.187	10.171	10.204	VV	147852	2460552	17.07%	0.375%
163	10.228	10.204	10.241	VV	129918	2737565	18.99%	0.417%
164	10.265	10.241	10.285	VV	385054	6095757	42.29%	0.929%
165	10.294	10.285	10.307	VV	149343	1935799	13.43%	0.295%
166	10.339	10.307	10.382	VV	218592	7346300	50.96%	1.120%
167	10.393	10.382	10.417	VV	127332	2352247	16.32%	0.358%
168	10.451	10.417	10.468	VV	134983	3622101	25.13%	0.552%
169	10.485	10.468	10.504	VV	176196	3049713	21.16%	0.465%
170	10.524	10.504	10.545	VV	168953	3268762	22.68%	0.498%
171	10.562	10.545	10.571	VV	134725	1875059	13.01%	0.286%
172	10.582	10.571	10.618	VV	140611	3524313	24.45%	0.537%
173	10.647	10.618	10.690	VV	133476	5188009	35.99%	0.791%
174	10.715	10.690	10.758	VV	135835	5001384	34.69%	0.762%
175	10.764	10.758	10.775	VV	108562	1080226	7.49%	0.165%
176	10.796	10.775	10.820	VV	143934	3185910	22.10%	0.486%
177	10.850	10.820	10.866	VV	127751	3158557	21.91%	0.481%
178	10.890	10.866	10.909	VV	133939	3142573	21.80%	0.479%
179	10.920	10.909	10.938	VV	112131	1894034	13.14%	0.289%
180	10.962	10.938	10.996	VV	316063	6125806	42.49%	0.934%
181	11.001	10.996	11.012	VV	105958	997979	6.92%	0.152%
182	11.017	11.012	11.028	VV	102250	978365	6.79%	0.149%
183	11.053	11.028	11.087	VV	195297	4655177	32.29%	0.709%
184	11.117	11.087	11.141	VV	124692	3689110	25.59%	0.562%
185	11.158	11.141	11.176	VV	126331	2382901	16.53%	0.363%
186	11.186	11.176	11.202	VV	102642	1535882	10.65%	0.234%
187	11.263	11.202	11.299	VV	862482	14415567	100.00%	2.197%
188	11.316	11.299	11.333	VV	124258	2248665	15.60%	0.343%
189	11.351	11.333	11.362	VV	123367	1996827	13.85%	0.304%
190	11.370	11.362	11.416	VV	121460	3641371	25.26%	0.555%
191	11.434	11.416	11.452	VV	134565	2478610	17.19%	0.378%
192	11.467	11.452	11.487	VV	107825	2167125	15.03%	0.330%
193	11.500	11.487	11.511	VV	106469	1491338	10.35%	0.227%
194	11.532	11.511	11.555	VV	102435	2546045	17.66%	0.388%

Instrument :
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Manual IntegrationsAPPROVED

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rteres

195	11.596	11.555	11.603	VV	110694	2908568	20.18%	0.443%
196	11.626	11.603	11.653	VV	252975	4634526	32	
197	11.678	11.653	11.703	VV	198915	3945781	27	
198	11.710	11.703	11.731	VV	90572	1428062	9	
199	11.745	11.731	11.756	VV	83915	1229893	8	
200	11.766	11.756	11.797	VV	84046	1949573	13	
201	11.811	11.797	11.817	VV	79392	912145	6.33%	0.139%
202	11.820	11.817	11.829	VV	79313	549527	3.81%	0.084%
203	11.846	11.829	11.858	VV	82804	1433966	9.95%	0.219%
204	11.874	11.858	11.887	VV	98299	1549663	10.75%	0.236%
205	11.893	11.887	11.922	VV	95373	1823825	12.65%	0.278%
206	11.960	11.922	11.985	VV	94295	3162666	21.94%	0.482%
207	11.999	11.985	12.011	VV	88438	1288664	8.94%	0.196%
208	12.026	12.011	12.052	VV	92704	2046246	14.19%	0.312%
209	12.075	12.052	12.122	VV	105665	3583877	24.86%	0.546%
210	12.137	12.122	12.151	VV	81792	1370277	9.51%	0.209%
211	12.178	12.151	12.199	VV	103260	2471939	17.15%	0.377%
212	12.217	12.199	12.233	VV	85565	1673482	11.61%	0.255%
213	12.261	12.233	12.280	VV	178589	3306569	22.94%	0.504%
214	12.292	12.280	12.307	VV	95457	1462417	10.14%	0.223%
215	12.317	12.307	12.340	VV	84868	1580260	10.96%	0.241%
216	12.351	12.340	12.364	VV	67502	945443	6.56%	0.144%
217	12.372	12.364	12.390	VV	63820	989312	6.86%	0.151%
218	12.409	12.390	12.414	VV	63792	902893	6.26%	0.138%
219	12.422	12.414	12.439	VV	64390	906608	6.29%	0.138%
220	12.444	12.439	12.466	VV	59012	937689	6.50%	0.143%
221	12.472	12.466	12.476	VV	55521	338527	2.35%	0.052%
222	12.516	12.476	12.563	VV	65633	3032931	21.04%	0.462%
223	12.583	12.563	12.613	VV	86060	1917457	13.30%	0.292%
224	12.630	12.613	12.635	VV	54306	715943	4.97%	0.109%
225	12.691	12.635	12.724	VV	531802	10829404	75.12%	1.650%
226	12.745	12.724	12.768	VV	407187	5447872	37.79%	0.830%
227	12.775	12.768	12.808	VV	75292	1440884	10.00%	0.220%
228	12.830	12.808	12.841	VV	48496	908702	6.30%	0.138%
229	12.869	12.841	12.896	VV	135759	2671382	18.53%	0.407%
230	12.922	12.896	12.968	VV	110195	2817136	19.54%	0.429%
231	12.985	12.968	13.009	VV	49377	1124233	7.80%	0.171%
232	13.024	13.009	13.045	VV	49267	984673	6.83%	0.150%
233	13.096	13.045	13.155	VV	56786	3162602	21.94%	0.482%
234	13.171	13.155	13.190	VV	43502	860153	5.97%	0.131%
235	13.202	13.190	13.235	VV	41753	1058488	7.34%	0.161%
236	13.247	13.235	13.265	VV	37396	634583	4.40%	0.097%
237	13.285	13.265	13.299	VV	40285	805851	5.59%	0.123%
238	13.318	13.299	13.341	VV	54471	1142788	7.93%	0.174%
239	13.353	13.341	13.391	VV	42792	1155402	8.01%	0.176%
240	13.410	13.391	13.420	VV	34909	586375	4.07%	0.089%
241	13.448	13.420	13.470	VV	93564	1782756	12.37%	0.272%
242	13.482	13.470	13.508	VV	45753	889181	6.17%	0.136%
243	13.542	13.508	13.566	VV	38363	1141553	7.92%	0.174%
244	13.578	13.566	13.609	VV	28816	712680	4.94%	0.109%
245	13.624	13.609	13.638	VV	27647	475426	3.30%	0.072%
246	13.679	13.638	13.694	VV	28852	929671	6.45%	0.142%

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247	13.709	13.694	13.727	VV	30875	558486	3.87%	0.085%
248	13.739	13.727	13.747	VV	28305	329516		
249	13.753	13.747	13.767	VV	28167	333935		
250	13.788	13.767	13.827	VV	32182	974640		
251	13.842	13.827	13.876	VV	26331	732895		
252	13.900	13.876	13.917	VV	29094	635213		
253	13.928	13.917	13.963	VV	27091	646031	4.48%	0.098%
254	14.007	13.963	14.043	VV	49351	1416928	9.83%	0.216%
255	14.065	14.043	14.084	VV	31630	633115	4.39%	0.096%
256	14.103	14.084	14.121	VV	31360	580951	4.03%	0.089%
257	14.140	14.121	14.156	VV	30675	529051	3.67%	0.081%
258	14.170	14.156	14.198	VV	25124	541705	3.76%	0.083%
259	14.208	14.198	14.220	VV	18707	232314	1.61%	0.035%
260	14.228	14.220	14.241	VV	19046	233793	1.62%	0.036%
261	14.260	14.241	14.284	VV	23994	544508	3.78%	0.083%
262	14.299	14.284	14.321	VV	21485	425946	2.95%	0.065%
263	14.334	14.321	14.346	VV	17922	259732	1.80%	0.040%
264	14.356	14.346	14.394	VV	17924	466022	3.23%	0.071%
265	14.400	14.394	14.419	VV	14834	213632	1.48%	0.033%
266	14.460	14.419	14.481	VV	14470	517202	3.59%	0.079%
267	14.501	14.481	14.521	VV	15025	328772	2.28%	0.050%
268	14.546	14.521	14.571	VV	28354	552348	3.83%	0.084%
269	14.601	14.571	14.632	VV	16839	509639	3.54%	0.078%
270	14.640	14.632	14.652	VV	11719	135622	0.94%	0.021%
271	14.665	14.652	14.683	VV	12865	222255	1.54%	0.034%
272	14.691	14.683	14.709	VV	11244	162297	1.13%	0.025%
273	14.758	14.709	14.804	VV	15549	643200	4.46%	0.098%
274	14.818	14.804	14.825	VV	8950	113495	0.79%	0.017%
275	14.883	14.825	14.897	VV	12758	463425	3.21%	0.071%
276	14.919	14.897	14.952	VV	39427	730957	5.07%	0.111%
277	14.961	14.952	14.996	VV	12915	268871	1.87%	0.041%
278	15.029	14.996	15.044	VV	9487	255829	1.77%	0.039%
279	15.065	15.044	15.096	VV	15055	341845	2.37%	0.052%
280	15.121	15.096	15.149	VV	14185	307855	2.14%	0.047%
281	15.166	15.149	15.197	VV	7053	179764	1.25%	0.027%
282	15.201	15.197	15.217	VV	5937	69462	0.48%	0.011%
283	15.257	15.217	15.291	VV	8456	298086	2.07%	0.045%
284	15.300	15.291	15.331	VV	5673	117181	0.81%	0.018%
285	15.352	15.331	15.370	VV	5170	111491	0.77%	0.017%
286	15.381	15.370	15.414	VV	5012	115987	0.80%	0.018%
287	15.445	15.414	15.470	VV	5430	156669	1.09%	0.024%
288	15.480	15.470	15.500	VV	4732	78571	0.55%	0.012%
289	15.518	15.500	15.540	VV	4905	98513	0.68%	0.015%
290	15.560	15.540	15.587	VV	7808	145624	1.01%	0.022%
291	15.620	15.587	15.653	VV	7450	175015	1.21%	0.027%
292	15.666	15.653	15.673	VV	2631	30058	0.21%	0.005%
293	15.677	15.673	15.690	VV	2560	24387	0.17%	0.004%
294	15.692	15.690	15.696	VV	2538	8137	0.06%	0.001%
295	15.731	15.696	15.752	VV	3474	98567	0.68%	0.015%
296	15.769	15.752	15.793	VV	2790	61391	0.43%	0.009%
297	15.802	15.793	15.807	VV	2319	18602	0.13%	0.003%
298	15.816	15.807	15.842	VV	2422	46781	0.32%	0.007%
299	15.889	15.842	15.903	VV	2763	82021	0.57%	0.013%

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300	15.928	15.903	15.992	VV	8889	229996	1.60%	0.035%
301	16.014	15.992	16.028	VV	5170	86332		
302	16.040	16.028	16.075	VV	4748	92179		
303	16.107	16.075	16.138	VV	9046	172402		
304	16.145	16.138	16.150	VV	1331	9152		
305	16.173	16.150	16.186	VV	1936	34164		
306	16.194	16.186	16.222	VV	1452	25193	0.17%	0.004%
307	16.237	16.222	16.267	VV	1252	28508	0.20%	0.004%
308	16.282	16.267	16.298	VV	1092	16668	0.12%	0.003%
309	16.331	16.298	16.378	VV	2440	61679	0.43%	0.009%
310	16.405	16.378	16.450	VV	3370	85389	0.59%	0.013%
311	16.472	16.450	16.485	VV	2383	40624	0.28%	0.006%
312	16.504	16.485	16.533	VV	3791	78314	0.54%	0.012%
313	16.578	16.533	16.612	VV	35341	524594	3.64%	0.080%
314	16.618	16.612	16.627	VV	861	6244	0.04%	0.001%
315	16.635	16.627	16.648	VV	775	8557	0.06%	0.001%
316	16.652	16.648	16.659	VV	670	4018	0.03%	0.001%
317	16.667	16.659	16.677	VV	647	5998	0.04%	0.001%
318	16.703	16.677	16.747	VV	1598	30620	0.21%	0.005%
319	16.760	16.747	16.767	PV	392	2457	0.02%	0.000%
320	16.801	16.767	16.817	VV	1176	20803	0.14%	0.003%
321	16.823	16.817	16.828	VV	600	3629	0.03%	0.001%
322	16.861	16.828	16.925	VV	75779	1209410	8.39%	0.184%
323	16.949	16.925	16.991	VV	6671	141931	0.98%	0.022%
324	17.019	16.991	17.053	VV	3968	93945	0.65%	0.014%
325	17.068	17.053	17.105	VV	1642	43646	0.30%	0.007%
326	17.110	17.105	17.125	VV	1149	12364	0.09%	0.002%
327	17.136	17.125	17.158	VV	1201	21723	0.15%	0.003%
328	17.162	17.158	17.192	VV	1282	21523	0.15%	0.003%
329	17.228	17.192	17.248	VV	3145	62921	0.44%	0.010%
330	17.254	17.248	17.272	VV	1893	24720	0.17%	0.004%
331	17.280	17.272	17.286	VV	1917	15725	0.11%	0.002%
332	17.316	17.286	17.335	VV	3004	71667	0.50%	0.011%
333	17.354	17.335	17.367	VV	3561	58225	0.40%	0.009%
334	17.386	17.367	17.433	VV	5149	145326	1.01%	0.022%
335	17.472	17.433	17.523	VV	20679	374018	2.59%	0.057%
336	17.556	17.523	17.566	VV	3443	73777	0.51%	0.011%
337	17.584	17.566	17.632	VV	3849	114158	0.79%	0.017%
338	17.676	17.632	17.698	VV	4868	134537	0.93%	0.021%
339	17.737	17.698	17.785	VV	57519	1060682	7.36%	0.162%
340	17.807	17.785	17.847	VV	15103	326923	2.27%	0.050%
341	17.871	17.847	17.881	VV	5201	96570	0.67%	0.015%
342	17.895	17.881	17.921	VV	5983	115771	0.80%	0.018%
343	17.932	17.921	17.967	VV	3539	91247	0.63%	0.014%
344	17.978	17.967	17.990	VV	3290	43972	0.31%	0.007%
345	18.013	17.990	18.039	VV	4765	119145	0.83%	0.018%
346	18.065	18.039	18.088	VV	3987	110797	0.77%	0.017%
347	18.103	18.088	18.128	VV	3711	83449	0.58%	0.013%
348	18.158	18.128	18.195	VV	8246	238822	1.66%	0.036%
349	18.218	18.195	18.228	VV	7039	129533	0.90%	0.020%
350	18.240	18.228	18.250	VBA	7390	80878	0.56%	0.012%

Sum of corrected areas: 656161344

rteres

Aromatic EPH 102324.M Tue Oct 29 05:21:20 2024

Instrument :
FID_D
ClientSampleId :
PT-NJEPH-SOIL

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 10/29/2024
Supervised By :Ankita Jodhani 10/29/2024

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

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	10/21/24
Project:	NJ Soil PT	Date Received:	10/23/24
Client Sample ID:	PT-NJEPH-SOILDL	SDG No.:	P4495
Lab Sample ID:	P4495-16DL	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	100
Sample Wt/Vol:	20.27 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FC067536.D	5	10/25/24	10/28/24	PB164396

CAS Number	Parameter		Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
Aliphatic C9-C12	Aliphatic C9-C12		173	E	2.81	7.40	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16		379	E	1.78	4.93	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21		332	E	2.22	7.40	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28		54.1		5.92	9.87	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40		14.6	J	13.3	14.8	mg/kg
SURROGATES							
3383-33-2	1-chlorooctadecane (SURR)		9.18		40 - 140	92%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)		0.00		40 - 140	0%	SPK: 50

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

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	P4495-16DL	Acq On:	28 Oct 2024 10:32
Client Sample ID:	PT-NJEPH-SOILDL	Operator:	YP/AJ
Data file:	FC067536.D	Misc:	
Instrument:	FID_C	ALS Vial:	12
Dilution Factor:	5	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.173	6.453	47587922	351.281	300	ug/ml
Aliphatic C12-C16	6.454	9.842	101304429	769.313	200	ug/ml
Aliphatic C16-C21	9.843	13.200	85664540	673.278	300	ug/ml
Aliphatic C21-C28	13.201	16.853	13167389	109.646	400	ug/ml
Aliphatic C28-C40	16.854	21.695	2987023	29.547	600	ug/ml
Aliphatic EPH	3.173	21.695	250711303	1930		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	12.931	12.931	990988	9.18		ug/ml
Aliphatic C9-C28	3.173	16.853	247724280	1900	1200	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC102824AL\
Data File : FC067536.D
Signal(s) : FID1A.ch
Acq On : 28 Oct 2024 10:32
Operator : YP/AJ
Sample : P4495-16DL 5X
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
PT-NJEPH-SOILDL

Integration File: sample.E
Quant Time: Oct 29 00:04:44 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 18:12:58 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			
12) S 1-chlorooctadecane (S...	12.931	990988	9.177 ug/ml
Spiked Amount 50.000		Recovery = 18.35%	
Target Compounds			

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

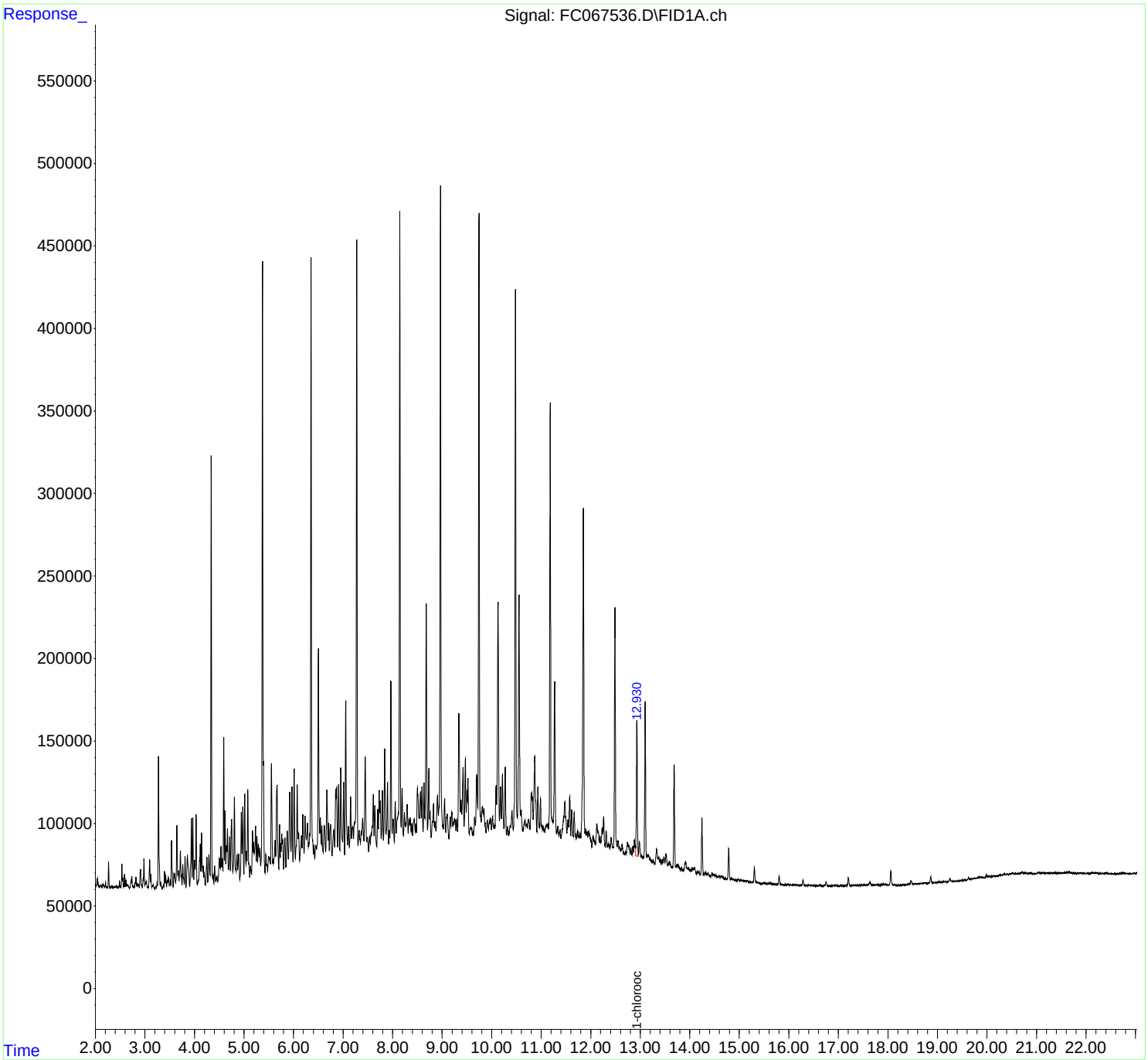
Quantitation Report (QT Reviewed)

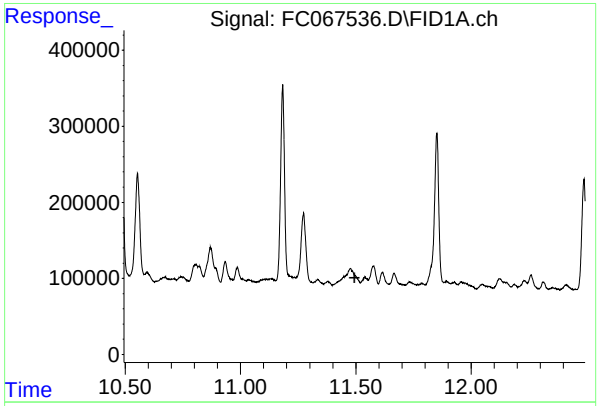
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC102824AL\
Data File : FC067536.D
Signal(s) : FID1A.ch
Acq On : 28 Oct 2024 10:32
Operator : YP/AJ
Sample : P4495-16DL 5X
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
PT-NJEPH-SOILDL

Integration File: sample.E
Quant Time: Oct 29 00:04:44 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 18:12:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

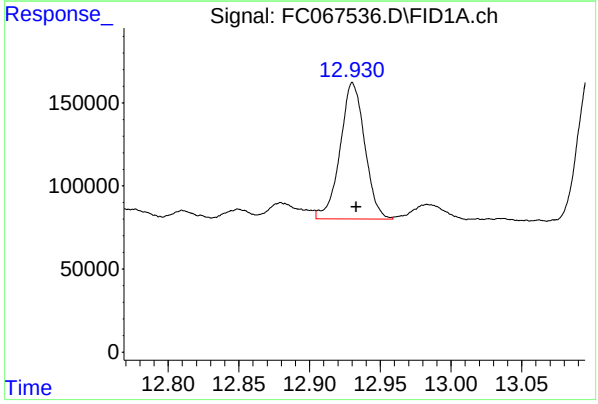




#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.494 min
Response: 0
Conc: N.D.

Instrument :
FID_C
ClientSampleId :
PT-NJEPH-SOILDL



#12 1-chlorooctadecane (SURR)

R.T.: 12.931 min
Delta R.T.: -0.002 min
Response: 990988
Conc: 9.18 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC102824AL\
Data File : FC067536.D
Signal(s) : FID1A.ch
Acq On : 28 Oct 2024 10:32
Sample : P4495-16DL 5X
Misc :
ALS Vial : 12 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 102324.M
Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.167	3.154	3.195	PH	2330	28519	0.43%	0.011%
2	3.219	3.195	3.229	PV	1151	11201	0.17%	0.004%
3	3.273	3.229	3.308	VV	79057	858943	12.90%	0.340%
4	3.318	3.308	3.350	VV	3735	42713	0.64%	0.017%
5	3.371	3.350	3.380	PV	2109	18167	0.27%	0.007%
6	3.396	3.380	3.409	VV	10461	98268	1.48%	0.039%
7	3.420	3.409	3.437	VV	7551	74545	1.12%	0.030%
8	3.451	3.437	3.460	VV	4721	47612	0.72%	0.019%
9	3.475	3.460	3.496	VV	6571	87168	1.31%	0.035%
10	3.511	3.496	3.520	VV	5307	46326	0.70%	0.018%
11	3.537	3.520	3.568	VV	28623	350549	5.27%	0.139%
12	3.586	3.568	3.617	VV	8979	175294	2.63%	0.069%
13	3.644	3.617	3.665	VV	38113	447411	6.72%	0.177%
14	3.673	3.665	3.688	VV	10548	117541	1.77%	0.047%
15	3.716	3.688	3.749	VV	22789	377662	5.67%	0.150%
16	3.764	3.749	3.794	VV	14520	198420	2.98%	0.079%
17	3.810	3.794	3.829	VV	19073	181487	2.73%	0.072%
18	3.857	3.829	3.903	VV	20379	447049	6.72%	0.177%
19	3.938	3.903	3.952	VV	42319	518799	7.79%	0.206%
20	3.967	3.952	3.986	VV	42654	432880	6.50%	0.172%
21	4.001	3.986	4.014	VV	16922	210915	3.17%	0.084%
22	4.033	4.014	4.056	VV	44828	494383	7.43%	0.196%
23	4.116	4.056	4.129	VV	26845	483388	7.26%	0.192%
24	4.143	4.129	4.167	VV	33763	445779	6.70%	0.177%
25	4.177	4.167	4.192	VV	13756	156218	2.35%	0.062%
26	4.199	4.192	4.220	VV	9324	92700	1.39%	0.037%
27	4.250	4.220	4.269	VV	18922	280371	4.21%	0.111%
28	4.291	4.269	4.313	VV	20544	317105	4.76%	0.126%
29	4.338	4.313	4.366	VV	262444	2565609	38.54%	1.017%
30	4.376	4.366	4.390	VV	8090	90663	1.36%	0.036%
31	4.407	4.390	4.428	VV	13579	185512	2.79%	0.074%
32	4.453	4.428	4.470	VV	6825	141209	2.12%	0.056%
33	4.503	4.470	4.519	VV	18051	344997	5.18%	0.137%
34	4.535	4.519	4.550	VV	25488	343155	5.16%	0.136%
35	4.560	4.550	4.573	VV	18044	209353	3.14%	0.083%
36	4.591	4.573	4.606	VV	90861	914323	13.74%	0.362%

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37	4.618	4.606	4.633	VV	46663	483232	7.26%	0.191%
38	4.667	4.633	4.687	VV	36175	747776	11.23%	0.296%
39	4.711	4.687	4.726	VV	31462	445841	6.70%	0.177%
40	4.749	4.726	4.775	VV	41437	754853	11.34%	0.299%
41	4.806	4.775	4.839	VV	54785	871966	13.10%	0.346%
42	4.858	4.839	4.873	VV	19959	304114	4.57%	0.121%
43	4.892	4.873	4.914	VV	20615	359923	5.41%	0.143%
44	4.946	4.914	4.961	VV	45627	605468	9.10%	0.240%
45	4.977	4.961	4.996	VV	49348	629106	9.45%	0.249%
46	5.015	4.996	5.039	VV	57027	743117	11.16%	0.294%
47	5.052	5.039	5.060	VV	22413	234664	3.53%	0.093%
48	5.077	5.060	5.115	VV	59694	876837	13.17%	0.347%
49	5.131	5.115	5.150	VV	13445	219198	3.29%	0.087%
50	5.172	5.150	5.185	VV	35127	462939	6.95%	0.183%
51	5.194	5.185	5.206	VV	27772	311899	4.69%	0.124%
52	5.233	5.206	5.249	VV	37492	681365	10.24%	0.270%
53	5.262	5.249	5.276	VV	31359	394818	5.93%	0.156%
54	5.291	5.276	5.307	VV	26780	412371	6.19%	0.163%
55	5.320	5.307	5.338	VV	24375	364648	5.48%	0.144%
56	5.373	5.338	5.424	VV	380198	4811216	72.28%	1.906%
57	5.442	5.424	5.477	VV	20462	456587	6.86%	0.181%
58	5.496	5.477	5.510	VV	19212	326547	4.91%	0.129%
59	5.520	5.510	5.532	VV	18752	230371	3.46%	0.091%
60	5.554	5.532	5.595	VV	74732	1298236	19.50%	0.514%
61	5.628	5.595	5.640	VV	28915	589878	8.86%	0.234%
62	5.666	5.640	5.701	VV	62918	1342552	20.17%	0.532%
63	5.718	5.701	5.732	VV	38448	465611	6.99%	0.184%
64	5.742	5.732	5.750	VV	26972	261373	3.93%	0.104%
65	5.763	5.750	5.800	VV	32406	758592	11.40%	0.301%
66	5.825	5.800	5.846	VV	30232	576731	8.66%	0.229%
67	5.874	5.846	5.894	VV	34596	729503	10.96%	0.289%
68	5.924	5.894	5.949	VV	57990	1219839	18.32%	0.483%
69	5.969	5.949	5.990	VV	61195	894448	13.44%	0.354%
70	6.013	5.990	6.037	VV	72152	1070073	16.08%	0.424%
71	6.074	6.037	6.124	VV	62499	1654091	24.85%	0.655%
72	6.160	6.124	6.172	VV	31634	722426	10.85%	0.286%
73	6.188	6.172	6.214	VV	44244	806325	12.11%	0.320%
74	6.233	6.214	6.259	VV	43268	904516	13.59%	0.358%
75	6.283	6.259	6.300	VV	38853	786590	11.82%	0.312%
76	6.354	6.300	6.401	VV	380238	5112115	76.80%	2.026%
77	6.413	6.401	6.428	VV	26107	364161	5.47%	0.144%
78	6.449	6.428	6.464	VV	25072	494291	7.43%	0.196%
79	6.502	6.464	6.530	VV	144144	2303952	34.61%	0.913%
80	6.542	6.530	6.560	VV	42195	647082	9.72%	0.256%
81	6.572	6.560	6.597	VV	37160	629452	9.46%	0.249%
82	6.621	6.597	6.649	VV	37147	947936	14.24%	0.376%
83	6.674	6.649	6.698	VV	58969	1190073	17.88%	0.472%
84	6.709	6.698	6.723	VV	39003	477426	7.17%	0.189%
85	6.747	6.723	6.779	VV	38572	992141	14.90%	0.393%
86	6.811	6.779	6.831	VV	34838	890019	13.37%	0.353%
87	6.853	6.831	6.861	VV	59835	808637	12.15%	0.320%
88	6.869	6.861	6.891	VV	60374	829415	12.46%	0.329%
89	6.911	6.891	6.934	VV	62912	1057589	15.89%	0.419%

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90	6.955	6.934	6.990	VV	72633	1412700	21.22%	0.560%
91	7.012	6.990	7.032	VV	64159	993058	14.92%	0.393%
92	7.054	7.032	7.091	VV	113025	1879183	28.23%	0.745%
93	7.107	7.091	7.128	VV	37141	691639	10.39%	0.274%
94	7.154	7.128	7.171	VV	54569	976895	14.68%	0.387%
95	7.194	7.171	7.211	VV	36905	828742	12.45%	0.328%
96	7.277	7.211	7.304	VV	393529	5668010	85.15%	2.246%
97	7.325	7.304	7.352	VV	34426	872051	13.10%	0.346%
98	7.395	7.352	7.421	VV	42080	1428099	21.45%	0.566%
99	7.448	7.421	7.479	VV	79110	1646188	24.73%	0.652%
100	7.491	7.479	7.517	VV	30513	630972	9.48%	0.250%
101	7.536	7.517	7.550	VV	31294	547925	8.23%	0.217%
102	7.611	7.550	7.627	VV	56649	1761718	26.47%	0.698%
103	7.643	7.627	7.679	VV	49204	1126689	16.93%	0.446%
104	7.701	7.679	7.713	VV	47562	752446	11.30%	0.298%
105	7.730	7.713	7.771	VV	58972	1604875	24.11%	0.636%
106	7.796	7.771	7.816	VV	58653	1097025	16.48%	0.435%
107	7.841	7.816	7.867	VV	83967	1556111	23.38%	0.617%
108	7.897	7.867	7.920	VV	63438	1329617	19.97%	0.527%
109	7.967	7.920	7.992	VV	124208	2350494	35.31%	0.931%
110	8.013	7.992	8.035	VV	41303	916581	13.77%	0.363%
111	8.054	8.035	8.075	VV	52083	950773	14.28%	0.377%
112	8.146	8.075	8.173	VV	406863	6166999	92.64%	2.444%
113	8.193	8.173	8.218	VV	60194	1202451	18.06%	0.476%
114	8.240	8.218	8.271	VV	45276	1238436	18.60%	0.491%
115	8.294	8.271	8.316	VV	50205	1141645	17.15%	0.452%
116	8.334	8.316	8.345	VV	40767	682517	10.25%	0.270%
117	8.359	8.345	8.376	VV	41488	717766	10.78%	0.284%
118	8.390	8.376	8.406	VV	38575	618354	9.29%	0.245%
119	8.437	8.406	8.458	VV	41509	1200353	18.03%	0.476%
120	8.471	8.458	8.482	VV	38523	524363	7.88%	0.208%
121	8.502	8.482	8.539	VV	60436	1676287	25.18%	0.664%
122	8.564	8.539	8.579	VV	58138	1181721	17.75%	0.468%
123	8.594	8.579	8.616	VV	60978	1077332	16.18%	0.427%
124	8.635	8.616	8.651	VV	63677	1039481	15.62%	0.412%
125	8.681	8.651	8.708	VV	171803	2848906	42.80%	1.129%
126	8.733	8.708	8.749	VV	72610	1298312	19.50%	0.514%
127	8.756	8.749	8.779	VV	45631	696435	10.46%	0.276%
128	8.826	8.779	8.844	VV	50843	1558744	23.42%	0.618%
129	8.857	8.844	8.876	VV	39272	703910	10.57%	0.279%
130	8.906	8.876	8.926	VV	55422	1375851	20.67%	0.545%
131	8.968	8.926	9.027	VV	423674	6656728	100.00%	2.638%
132	9.050	9.027	9.073	VV	53703	1189063	17.86%	0.471%
133	9.104	9.073	9.136	VV	44313	1454657	21.85%	0.576%
134	9.165	9.136	9.178	VV	42705	916079	13.76%	0.363%
135	9.195	9.178	9.233	VV	45320	1345689	20.22%	0.533%
136	9.249	9.233	9.280	VV	41587	1107789	16.64%	0.439%
137	9.295	9.280	9.312	VV	40887	727909	10.93%	0.288%
138	9.339	9.312	9.371	VV	103298	2353938	35.36%	0.933%
139	9.383	9.371	9.398	VV	52628	784718	11.79%	0.311%
140	9.423	9.398	9.446	VV	72311	1574397	23.65%	0.624%
141	9.470	9.446	9.488	VV	78239	1425808	21.42%	0.565%

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142	9.501	9.488	9.510	VV	58780	709144	10.65%	0.281%
143	9.523	9.510	9.548	VV	65894	1121386	16.85%	0.444%
144	9.587	9.548	9.618	VV	35991	1455400	21.86%	0.577%
145	9.624	9.618	9.634	VV	33677	322372	4.84%	0.128%
146	9.658	9.634	9.673	VV	42227	889134	13.36%	0.352%
147	9.698	9.673	9.719	VV	67766	1505828	22.62%	0.597%
148	9.745	9.719	9.788	VV	408541	5750761	86.39%	2.279%
149	9.814	9.788	9.835	VV	48705	1268253	19.05%	0.503%
150	9.846	9.835	9.886	VV	47203	1244065	18.69%	0.493%
151	9.913	9.886	9.935	VV	40490	1104502	16.59%	0.438%
152	9.975	9.935	9.997	VV	41828	1431002	21.50%	0.567%
153	10.018	9.997	10.060	VV	42375	1447788	21.75%	0.574%
154	10.089	10.060	10.102	VV	61326	1196206	17.97%	0.474%
155	10.130	10.102	10.159	VV	171855	3305745	49.66%	1.310%
156	10.179	10.159	10.199	VV	60408	1187384	17.84%	0.470%
157	10.220	10.199	10.249	VV	68434	1500151	22.54%	0.594%
158	10.275	10.249	10.302	VV	72608	1523830	22.89%	0.604%
159	10.320	10.302	10.343	VV	36124	839869	12.62%	0.333%
160	10.412	10.343	10.435	VV	45955	2093080	31.44%	0.829%
161	10.482	10.435	10.518	VV	360270	5841378	87.75%	2.315%
162	10.553	10.518	10.584	VV	175576	3497808	52.55%	1.386%
163	10.595	10.584	10.628	VV	46752	1075099	16.15%	0.426%
164	10.671	10.628	10.697	VV	39734	1538134	23.11%	0.609%
165	10.712	10.697	10.723	VV	38190	588027	8.83%	0.233%
166	10.742	10.723	10.778	VV	40978	1258240	18.90%	0.499%
167	10.805	10.778	10.839	VV	56411	1825128	27.42%	0.723%
168	10.870	10.839	10.913	VV	77949	2443350	36.70%	0.968%
169	10.934	10.913	10.967	VV	60773	1448293	21.76%	0.574%
170	10.986	10.967	11.024	VV	53411	1438265	21.61%	0.570%
171	11.035	11.024	11.066	VV	36540	891003	13.38%	0.353%
172	11.129	11.066	11.151	VV	38219	1842814	27.68%	0.730%
173	11.183	11.151	11.241	VV	293087	5029615	75.56%	1.993%
174	11.273	11.241	11.314	VV	125325	2796957	42.02%	1.108%
175	11.335	11.314	11.360	VV	36954	942546	14.16%	0.373%
176	11.379	11.360	11.398	VV	34696	737378	11.08%	0.292%
177	11.476	11.398	11.520	VV	51753	2885549	43.35%	1.143%
178	11.540	11.520	11.553	VV	40249	739640	11.11%	0.293%
179	11.576	11.553	11.598	VV	55134	1185148	17.80%	0.470%
180	11.615	11.598	11.648	VV	46503	1108906	16.66%	0.439%
181	11.666	11.648	11.718	VV	45050	1452118	21.81%	0.575%
182	11.734	11.718	11.764	VV	33735	881729	13.25%	0.349%
183	11.787	11.764	11.800	VV	31729	670645	10.07%	0.266%
184	11.851	11.800	11.882	VV	229846	4206301	63.19%	1.667%
185	11.893	11.882	11.911	VV	34642	563604	8.47%	0.223%
186	11.927	11.911	11.942	VV	33610	593870	8.92%	0.235%
187	11.958	11.942	12.022	VV	33629	1455984	21.87%	0.577%
188	12.049	12.022	12.094	VV	30640	1206539	18.13%	0.478%
189	12.123	12.094	12.174	VV	37554	1531328	23.00%	0.607%
190	12.188	12.174	12.204	VV	30323	526317	7.91%	0.209%
191	12.231	12.204	12.244	VV	35260	746660	11.22%	0.296%
192	12.259	12.244	12.292	VV	42746	966216	14.51%	0.383%
193	12.313	12.292	12.337	VV	33203	750433	11.27%	0.297%
194	12.353	12.337	12.386	VV	25945	728725	10.95%	0.289%

195	12.411	12.386	12.456	VV	29345	1098361	16.50%	0.435%
196	12.489	12.456	12.534	VV	167568	2904860	43.64%	1.151%
197	12.551	12.534	12.598	VV	27829	948491	14.25%	0.376%
198	12.633	12.598	12.684	VV	25568	1156437	17.37%	0.458%
199	12.705	12.684	12.718	VV	21236	408394	6.14%	0.162%
200	12.742	12.718	12.796	VV	26929	1112957	16.72%	0.441%
201	12.810	12.796	12.831	VV	23541	447461	6.72%	0.177%
202	12.850	12.831	12.863	VV	24296	427308	6.42%	0.169%
203	12.880	12.863	12.904	VV	28042	606542	9.11%	0.240%
204	12.931	12.904	12.959	VV	99829	1611416	24.21%	0.639%
205	12.984	12.959	13.031	VV	27105	932402	14.01%	0.369%
206	13.035	13.031	13.067	VV	18763	389667	5.85%	0.154%
207	13.099	13.067	13.128	VV	111875	1756358	26.38%	0.696%
208	13.142	13.128	13.157	VV	19325	332412	4.99%	0.132%
209	13.166	13.157	13.245	VV	18582	875521	13.15%	0.347%
210	13.260	13.245	13.290	VV	16303	411259	6.18%	0.163%
211	13.330	13.290	13.361	VV	22707	761842	11.44%	0.302%
212	13.373	13.361	13.392	VV	18108	316468	4.75%	0.125%
213	13.406	13.392	13.427	VV	16705	319753	4.80%	0.127%
214	13.447	13.427	13.460	VV	16501	305195	4.58%	0.121%
215	13.478	13.460	13.498	VV	17928	368664	5.54%	0.146%
216	13.522	13.498	13.555	VV	19394	560607	8.42%	0.222%
217	13.592	13.555	13.641	VV	14698	683736	10.27%	0.271%
218	13.684	13.641	13.717	VV	73381	1282287	19.26%	0.508%
219	13.738	13.717	13.754	VV	13105	276613	4.16%	0.110%
220	13.768	13.754	13.814	VV	13383	420217	6.31%	0.167%
221	13.829	13.814	13.852	VV	11101	234714	3.53%	0.093%
222	13.911	13.852	13.963	VV	14638	787665	11.83%	0.312%
223	13.977	13.963	14.000	VV	11061	231063	3.47%	0.092%
224	14.017	14.000	14.028	VV	10363	166368	2.50%	0.066%
225	14.047	14.028	14.060	VV	11438	202245	3.04%	0.080%
226	14.072	14.060	14.081	VV	10759	129598	1.95%	0.051%
227	14.097	14.081	14.140	VV	11534	342089	5.14%	0.136%
228	14.158	14.140	14.169	VV	8624	148849	2.24%	0.059%
229	14.184	14.169	14.211	VV	8761	202829	3.05%	0.080%
230	14.245	14.211	14.286	VV	41761	748930	11.25%	0.297%
231	14.313	14.286	14.334	VV	8441	228747	3.44%	0.091%
232	14.340	14.334	14.354	VV	7655	90374	1.36%	0.036%
233	14.370	14.354	14.421	VV	8122	279269	4.20%	0.111%
234	14.450	14.421	14.511	VV	7951	375799	5.65%	0.149%
235	14.524	14.511	14.554	VV	6640	160782	2.42%	0.064%
236	14.564	14.554	14.576	VV	6223	75211	1.13%	0.030%
237	14.595	14.576	14.615	VV	6528	140244	2.11%	0.056%
238	14.639	14.615	14.658	VV	6573	152825	2.30%	0.061%
239	14.671	14.658	14.750	VV	5686	270586	4.06%	0.107%
240	14.784	14.750	14.823	VV	22901	428335	6.43%	0.170%
241	14.855	14.823	14.905	VV	4740	213224	3.20%	0.084%
242	14.919	14.905	14.954	VV	3948	107591	1.62%	0.043%
243	14.980	14.954	15.018	VV	4293	145690	2.19%	0.058%
244	15.028	15.018	15.071	VV	3811	113562	1.71%	0.045%
245	15.118	15.071	15.149	VV	3596	151989	2.28%	0.060%
246	15.167	15.149	15.194	VV	3328	80623	1.21%	0.032%

247	15.210	15.194	15.265	VV	3049	110068	1.65%	0.044%
248	15.303	15.265	15.458	VV	11189	369812	5.56%	0.147%
249	15.483	15.458	15.514	VV	2154	62697	0.94%	0.025%
250	15.519	15.514	15.581	VV	1841	67206	1.01%	0.027%
251	15.605	15.581	15.614	VV	1885	33521	0.50%	0.013%
252	15.624	15.614	15.658	VV	1980	43291	0.65%	0.017%
253	15.673	15.658	15.748	VV	1593	70690	1.06%	0.028%
254	15.759	15.748	15.778	VV	1299	21612	0.32%	0.009%
255	15.803	15.778	15.938	VV	6140	160486	2.41%	0.064%
256	15.987	15.938	16.071	VV	1127	66512	1.00%	0.026%
257	16.114	16.071	16.133	VV	915	27181	0.41%	0.011%
258	16.160	16.133	16.218	VV	806	29744	0.45%	0.012%
259	16.239	16.218	16.250	VV	518	8568	0.13%	0.003%
260	16.285	16.250	16.362	VV	3692	72476	1.09%	0.029%
261	16.371	16.362	16.414	VV	417	11042	0.17%	0.004%
262	16.442	16.414	16.492	VV	496	16717	0.25%	0.007%
263	16.502	16.492	16.538	VV	390	8033	0.12%	0.003%
264	16.567	16.538	16.594	VV	286	8072	0.12%	0.003%
265	16.629	16.594	16.666	VV	306	10480	0.16%	0.004%
266	16.673	16.666	16.691	VV	200	1918	0.03%	0.001%
267	16.714	16.691	16.728	VV	391	7007	0.11%	0.003%
268	16.752	16.728	16.830	VV	2470	43205	0.65%	0.017%
269	16.841	16.830	16.851	VV	116	1209	0.02%	0.000%
270	16.865	16.851	16.895	VV	135	3010	0.05%	0.001%
271	16.913	16.895	16.928	VV	254	3187	0.05%	0.001%
272	16.939	16.928	16.947	VV	142	1471	0.02%	0.001%
273	16.968	16.947	17.006	VV	237	5669	0.09%	0.002%
274	17.041	17.006	17.125	PV	268	10234	0.15%	0.004%
275	17.138	17.125	17.159	VV	173	2846	0.04%	0.001%
276	17.201	17.159	17.251	VV	4814	78473	1.18%	0.031%
277	17.264	17.251	17.280	VV	252	3409	0.05%	0.001%
278	17.306	17.280	17.321	VV	399	6580	0.10%	0.003%
279	17.354	17.321	17.408	VV	412	15390	0.23%	0.006%
280	17.532	17.408	17.552	VV	535	33260	0.50%	0.013%
281	17.637	17.552	17.666	VV	2604	61847	0.93%	0.025%
282	17.674	17.666	17.734	VV	504	16321	0.25%	0.006%
283	17.771	17.734	17.814	VV	654	22078	0.33%	0.009%
284	17.867	17.814	17.880	VV	453	13371	0.20%	0.005%
285	17.912	17.880	17.988	VV	732	34385	0.52%	0.014%
286	18.001	17.988	18.012	VV	405	5405	0.08%	0.002%
287	18.057	18.012	18.116	VV	8457	134793	2.02%	0.053%
288	18.132	18.116	18.186	VV	417	8338	0.13%	0.003%
289	18.193	18.186	18.222	VV	188	2225	0.03%	0.001%
290	18.263	18.222	18.278	PV	111	1587	0.02%	0.001%
291	18.327	18.278	18.344	VV	246	4818	0.07%	0.002%
292	18.468	18.344	18.534	VV	2328	59380	0.89%	0.024%
293	18.561	18.534	18.589	VV	290	6679	0.10%	0.003%
294	18.628	18.589	18.641	VV	291	7377	0.11%	0.003%
295	18.725	18.641	18.738	VV	301	13054	0.20%	0.005%
296	18.771	18.738	18.794	VV	446	9553	0.14%	0.004%
297	18.864	18.794	18.943	VV	3943	77189	1.16%	0.031%
298	19.042	18.943	19.085	VV	418	26113	0.39%	0.010%
299	19.096	19.085	19.100	VV	335	2658	0.04%	0.001%

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300	19.250	19.100	19.284	VV	1849	58625	0.88%	0.023%
301	19.297	19.284	19.311	VV	391	5624	0.08%	0.002%
302	19.324	19.311	19.341	VV	348	5150	0.08%	0.002%
303	19.349	19.341	19.357	VV	284	2378	0.04%	0.001%
304	19.416	19.357	19.424	VV	270	9609	0.14%	0.004%
305	19.498	19.424	19.516	VV	529	19620	0.29%	0.008%
306	19.553	19.516	19.588	VV	762	24823	0.37%	0.010%
307	19.627	19.588	19.655	VV	1809	42065	0.63%	0.017%
308	19.845	19.655	19.871	VV	1672	162736	2.44%	0.064%
309	19.881	19.871	19.888	VV	1561	15898	0.24%	0.006%
310	19.895	19.888	19.925	VV	1592	32420	0.49%	0.013%
311	19.989	19.925	20.014	VV	2487	92043	1.38%	0.036%
312	20.046	20.014	20.081	VV	2071	73100	1.10%	0.029%
313	20.142	20.081	20.168	VV	1938	94116	1.41%	0.037%
314	20.178	20.168	20.200	VV	1881	34145	0.51%	0.014%
315	20.261	20.200	20.288	VV	2259	107362	1.61%	0.043%
316	20.347	20.288	20.380	VV	2687	129129	1.94%	0.051%
317	20.414	20.380	20.428	VV	2369	66371	1.00%	0.026%
318	20.473	20.428	20.484	VV	2583	82253	1.24%	0.033%
319	20.516	20.484	20.555	VV	2844	109828	1.65%	0.044%
320	20.569	20.555	20.581	VV	2391	37376	0.56%	0.015%
321	20.709	20.581	20.745	VV	2982	244756	3.68%	0.097%
322	20.753	20.745	20.820	VV	2429	102429	1.54%	0.041%
323	20.838	20.820	20.853	VV	2200	41840	0.63%	0.017%
324	20.887	20.853	20.954	VV	2111	115617	1.74%	0.046%
325	21.044	20.954	21.075	VV	2107	130034	1.95%	0.052%
326	21.127	21.075	21.173	VV	1814	98561	1.48%	0.039%
327	21.198	21.173	21.210	VV	1648	34542	0.52%	0.014%
328	21.224	21.210	21.264	VV	1609	47117	0.71%	0.019%
329	21.301	21.264	21.327	VV	1470	51761	0.78%	0.021%
330	21.351	21.327	21.389	VV	1392	47754	0.72%	0.019%
331	21.400	21.389	21.434	VV	1173	28853	0.43%	0.011%
332	21.443	21.434	21.468	VV	1036	19433	0.29%	0.008%
333	21.596	21.468	21.631	VV	1216	98805	1.48%	0.039%
334	21.668	21.631	21.738	VV	1125	50150	0.75%	0.020%
335	21.752	21.738	21.810	VV	476	13742	0.21%	0.005%
336	21.824	21.810	21.831	VV	119	1034	0.02%	0.000%
337	21.851	21.831	21.861	VV	114	1450	0.02%	0.001%

Sum of corrected areas: 252367467

Aliphatic EPH 102324.M Tue Oct 29 05:10:22 2024

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

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	10/21/24
Project:	NJ Soil PT	Date Received:	10/23/24
Client Sample ID:	PT-NJEPH-SOILDL	SDG No.:	P4495
Lab Sample ID:	P4495-16DL	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	100
Sample Wt/Vol:	20.27 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FD048599.D	5	10/25/24	10/28/24	PB164396

CAS Number	Parameter		Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
Aromatic C10-C12	Aromatic C10-C12		32.8		2.22	4.93	mg/kg
Aromatic C12-C16	Aromatic C12-C16		104		2.52	7.40	mg/kg
Aromatic C16-C21	Aromatic C16-C21		193		7.10	12.3	mg/kg
Aromatic C21-C36	Aromatic C21-C36		47.4		14.8	19.7	mg/kg
SURROGATES							
580-13-2	2-Bromonaphthalene (SURR)		12.3		40 - 140	123%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)		11.4		40 - 140	114%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)		9.75		40 - 140	98%	SPK: 50

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

Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	P4495-16DL	Acq On:	28 Oct 2024 11:26
Client Sample ID:	PT-NJEPH-SOILDL	Operator:	YP/AJ
Data file:	FD048599.D	Misc:	
Instrument:	FID_D	ALS Vial:	62
Dilution Factor:	5	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.094	5.812	11706057	66.435	200	ug/ml
Aromatic C12-C16	5.813	8.417	37597222	212.086	300	ug/ml
Aromatic C16-C21	8.418	12.677	64233129	392.066	500	ug/ml
Aromatic C21-C36	12.678	18.081	14679323	96.124	800	ug/ml
Aromatic EPH	4.094	18.081	128215731	766.71		ug/ml
ortho-Terphenyl (SURR)	11.253	11.253	1661344	9.75		ug/ml
2-Bromonaphthalene (SURR)	7.369	7.369	1872166	12.33		ug/ml
2-Flurobiphenyl (SURR)	8.220	8.220	1114983	11.36		ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD102824AR\
Data File : FD048599.D
Signal(s) : FID2B.ch
Acq On : 28 Oct 2024 11:26
Operator : YP/AJ
Sample : P4495-16DL 5X
Misc :
ALS Vial : 62 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
PT-NJEPH-SOILDL

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 10/29/2024
Supervised By :Ankita Jodhani 10/29/2024

Integration File: autoint1.e
Quant Time: Oct 29 00:21:59 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 18:14:59 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) S 2-Bromonaphthalene (S...	7.369	1872166	12.335 ug/mlm
Spiked Amount 50.000		Recovery =	24.67%
6) S 2-Flurobiphenyl (SURR)	8.220	1114983	11.355 ug/mlm
Spiked Amount 50.000 Range 0 - 131		Recovery =	22.71%
11) S ortho-Terphenyl (SURR)	11.253	1661344	9.753 ug/mlm
Spiked Amount 50.000		Recovery =	19.51%
Target Compounds			

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

Quantitation Report (QT Reviewed)

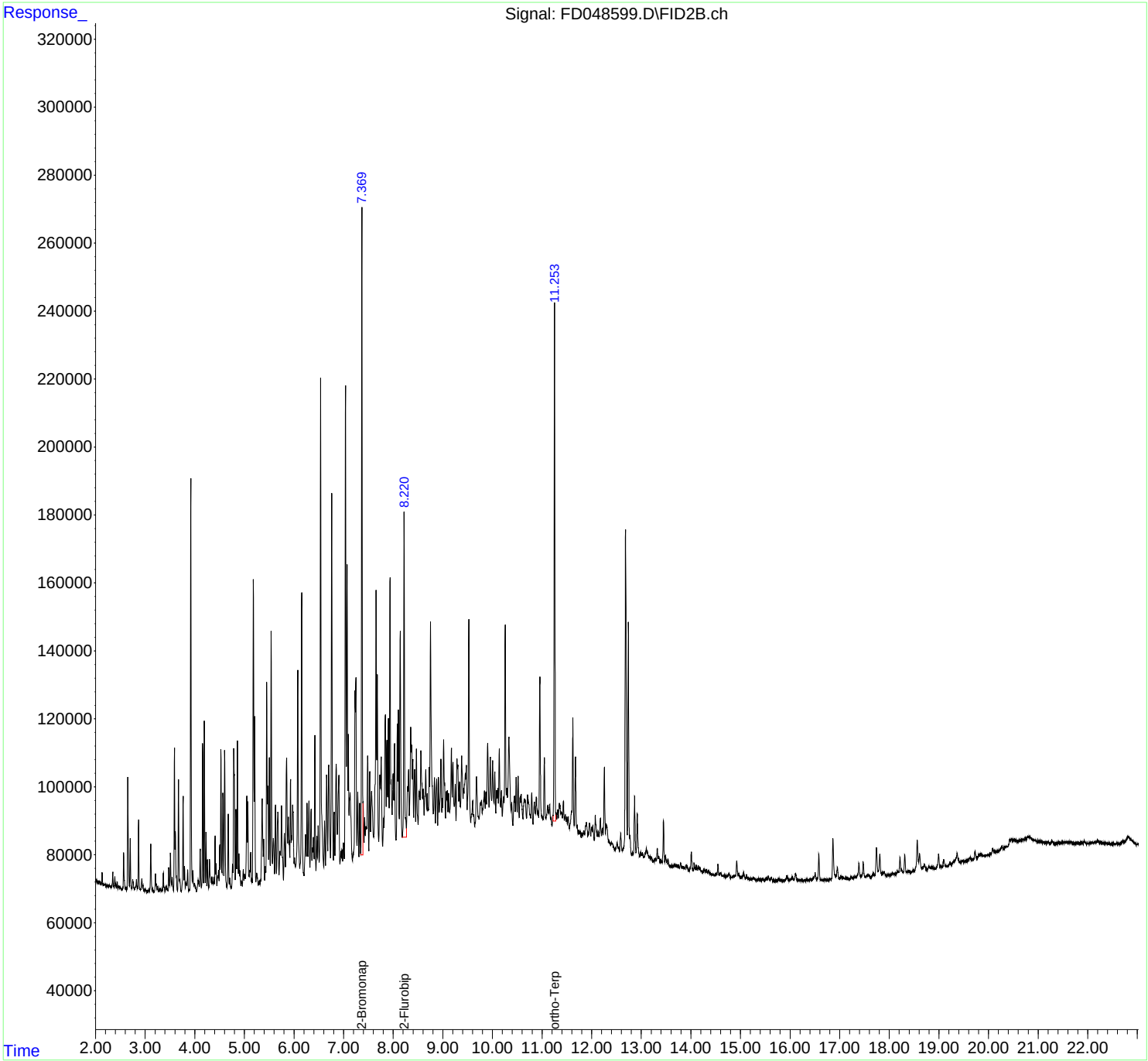
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD102824AR\
Data File : FD048599.D
Signal(s) : FID2B.ch
Acq On : 28 Oct 2024 11:26
Operator : YP/AJ
Sample : P4495-16DL 5X
Misc :
ALS Vial : 62 Sample Multiplier: 1

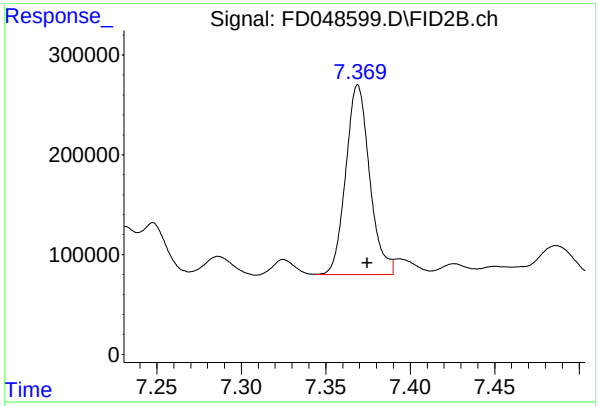
Instrument :
FID_D
ClientSampleId :
PT-NJEPH-SOILDL

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 10/29/2024
Supervised By :Ankita Jodhani 10/29/2024

Integration File: autoint1.e
Quant Time: Oct 29 00:21:59 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 18:14:59 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm





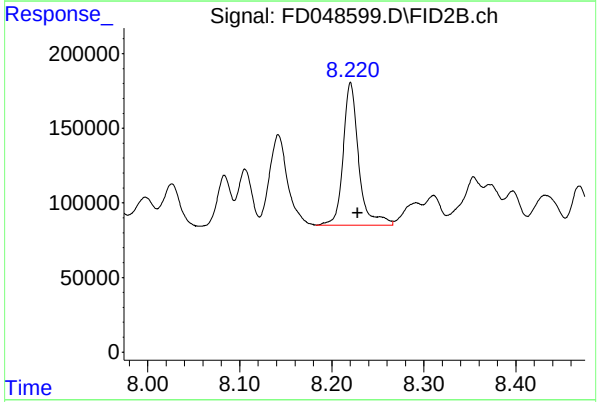
#4 2-Bromonaphthalene (SURR)

R.T.: 7.369 min
Delta R.T.: -0.006 min
Response: 1872166
Conc: 12.33 ug/ml

Instrument :
FID_D
ClientSampleId :
PT-NJEPH-SOILDL

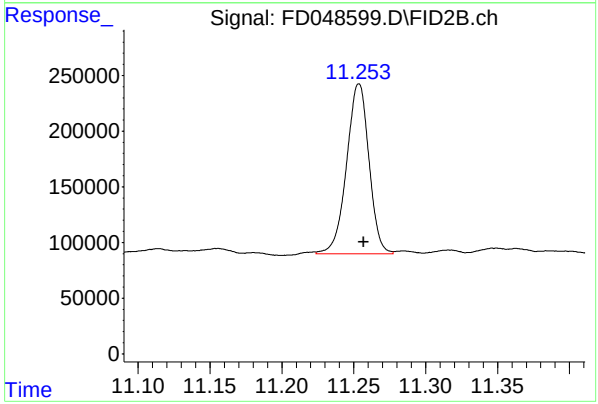
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/29/2024
Supervised By :Ankita Jodhani 10/29/2024



#6 2-Flurobiphenyl (SURR)

R.T.: 8.220 min
Delta R.T.: -0.008 min
Response: 1114983
Conc: 11.36 ug/ml m



#11 ortho-Terphenyl (SURR)

R.T.: 11.253 min
Delta R.T.: -0.004 min
Response: 1661344
Conc: 9.75 ug/ml m

Instrument :
FID_D
ClientSampleId :
PT-NJEPH-SOILDL

rteres

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 10/29/2024
Supervised By :Ankita Jodhani 10/29/2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD10282
Data File : FD048599.D
Signal(s) : FID2B.ch
Acq On : 28 Oct 2024 11:26
Sample : P4495-16DL 5X
Misc :
ALS Vial : 62 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 102324.M
Title : GC Extractables

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.159	4.133	4.177	PV	39676	292519	11.27%	0.221%
2	4.192	4.177	4.212	PV	47912	393018	15.15%	0.297%
3	4.227	4.212	4.243	VV	15712	132315	5.10%	0.100%
4	4.257	4.243	4.281	VV	8045	67490	2.60%	0.051%
5	4.298	4.281	4.333	PV	8432	114240	4.40%	0.086%
6	4.345	4.333	4.370	VV	3310	46300	1.78%	0.035%
7	4.384	4.370	4.394	VV	3331	32744	1.26%	0.025%
8	4.409	4.394	4.422	VV	15376	135811	5.23%	0.102%
9	4.430	4.422	4.445	VV	7313	61188	2.36%	0.046%
10	4.462	4.445	4.469	VV	3582	37503	1.45%	0.028%
11	4.480	4.469	4.490	VV	5292	48888	1.88%	0.037%
12	4.503	4.490	4.513	VV	12774	111645	4.30%	0.084%
13	4.528	4.513	4.548	VV	40794	390255	15.04%	0.294%
14	4.568	4.548	4.587	VV	27957	341731	13.17%	0.258%
15	4.602	4.587	4.648	VV	40572	472549	18.21%	0.357%
16	4.675	4.648	4.694	VV	21887	212114	8.18%	0.160%
17	4.704	4.694	4.734	VV	3063	33233	1.28%	0.025%
18	4.761	4.734	4.770	PV	7134	66376	2.56%	0.050%
19	4.786	4.770	4.816	VV	41019	642534	24.76%	0.485%
20	4.832	4.816	4.845	VV	23237	226957	8.75%	0.171%
21	4.860	4.845	4.879	VV	43469	418602	16.13%	0.316%
22	4.891	4.879	4.904	VV	10158	104986	4.05%	0.079%
23	4.912	4.904	4.928	VV	5313	48622	1.87%	0.037%
24	4.937	4.928	4.959	VV	1872	26005	1.00%	0.020%
25	4.978	4.959	4.991	VV	5569	66825	2.58%	0.050%
26	5.002	4.991	5.018	VV	4189	53142	2.05%	0.040%
27	5.049	5.018	5.060	VV	27244	329780	12.71%	0.249%
28	5.070	5.060	5.097	VV	25580	270375	10.42%	0.204%
29	5.109	5.097	5.115	VV	5327	48742	1.88%	0.037%
30	5.127	5.115	5.142	VV	10669	109045	4.20%	0.082%
31	5.151	5.142	5.159	VV	3078	25216	0.97%	0.019%
32	5.182	5.159	5.198	VV	90918	1037327	39.98%	0.783%
33	5.208	5.198	5.231	VV	50607	488567	18.83%	0.369%
34	5.248	5.231	5.280	VV	4476	85704	3.30%	0.065%
35	5.302	5.280	5.313	VV	2086	31308	1.21%	0.024%
36	5.358	5.313	5.381	VV	26408	455168	17.54%	0.343%

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rteres

37	5.390	5.381	5.408	VV	14562	146663	5.65%	0.111%
38	5.425	5.408	5.433	VV	6585	74711		
39	5.450	5.433	5.465	VV	60447	634625		
40	5.474	5.465	5.490	VV	29987	322355		
41	5.503	5.490	5.521	VV	38497	383690		
42	5.541	5.521	5.565	VV	75595	830719		
43	5.585	5.565	5.610	VV	14811	281343	10.84%	0.212%
44	5.627	5.610	5.647	VV	24510	302126	11.64%	0.228%
45	5.676	5.647	5.699	VV	22408	431517	16.63%	0.326%
46	5.716	5.699	5.732	VV	10928	171254	6.60%	0.129%
47	5.750	5.732	5.788	VV	24417	413880	15.95%	0.312%
48	5.806	5.788	5.828	VV	16177	254350	9.80%	0.192%
49	5.851	5.828	5.872	VV	38366	626483	24.15%	0.473%
50	5.887	5.872	5.900	VV	21020	286306	11.03%	0.216%
51	5.905	5.900	5.915	VV	13467	110120	4.24%	0.083%
52	5.930	5.915	5.945	VV	32076	368478	14.20%	0.278%
53	5.954	5.945	5.960	VV	15468	128698	4.96%	0.097%
54	5.973	5.960	6.001	VV	24516	450123	17.35%	0.340%
55	6.012	6.001	6.024	VV	8953	105456	4.06%	0.080%
56	6.031	6.024	6.036	VV	6984	50766	1.96%	0.038%
57	6.077	6.036	6.116	VV	64220	975514	37.60%	0.736%
58	6.155	6.116	6.201	VV	87101	1144963	44.13%	0.864%
59	6.235	6.201	6.247	VV	15914	278042	10.72%	0.210%
60	6.263	6.247	6.280	VV	25139	333601	12.86%	0.252%
61	6.302	6.280	6.322	VV	25739	402829	15.53%	0.304%
62	6.345	6.322	6.362	VV	23405	353178	13.61%	0.266%
63	6.373	6.362	6.380	VV	12041	117821	4.54%	0.089%
64	6.392	6.380	6.405	VV	15064	185057	7.13%	0.140%
65	6.422	6.405	6.443	VV	45019	507681	19.57%	0.383%
66	6.462	6.443	6.474	VV	15335	201428	7.76%	0.152%
67	6.488	6.474	6.509	VV	18558	274146	10.57%	0.207%
68	6.537	6.509	6.599	VV	150359	1983777	76.46%	1.497%
69	6.617	6.599	6.636	VV	19928	282770	10.90%	0.213%
70	6.659	6.636	6.681	VV	33416	552297	21.29%	0.417%
71	6.700	6.681	6.737	VV	36307	745140	28.72%	0.562%
72	6.761	6.737	6.794	VV	116495	1504716	58.00%	1.135%
73	6.809	6.794	6.826	VV	22457	283095	10.91%	0.214%
74	6.852	6.826	6.874	VV	36529	689723	26.58%	0.520%
75	6.905	6.874	6.927	VV	33331	697373	26.88%	0.526%
76	6.947	6.927	6.958	VV	10947	175236	6.75%	0.132%
77	6.968	6.958	6.982	VV	11392	142927	5.51%	0.108%
78	6.998	6.982	7.015	VV	13504	219813	8.47%	0.166%
79	7.039	7.015	7.055	VV	147831	1664128	64.14%	1.256%
80	7.071	7.055	7.086	VV	95087	1162308	44.80%	0.877%
81	7.096	7.086	7.110	VV	45446	479546	18.48%	0.362%
82	7.132	7.110	7.178	VV	28203	823418	31.74%	0.621%
83	7.191	7.178	7.198	VV	10279	111954	4.31%	0.084%
84	7.232	7.198	7.239	VV	58122	699217	26.95%	0.528%
85	7.248	7.239	7.270	VV	62043	729977	28.14%	0.551%
86	7.286	7.270	7.309	VV	28295	440882	16.99%	0.333%
87	7.325	7.309	7.344	VV	25096	340217	13.11%	0.257%
88	7.369	7.344	7.413	VV	200146	2425912	93.50%	1.830%
89	7.426	7.413	7.440	VV	20838	284626	10.97%	0.215%

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90	7.450	7.440	7.462	VV	18249	233243	8.99%	0.176%
91	7.486	7.462	7.509	VV	38940	716214	27	
92	7.527	7.509	7.543	VV	34479	468630	18	
93	7.564	7.543	7.604	VV	28622	811857	31	
94	7.656	7.604	7.669	VV	87761	1516439	58	
95	7.680	7.669	7.709	VV	62970	843553	32	
96	7.731	7.709	7.742	VV	33498	504943	19.46%	0.381%
97	7.758	7.742	7.788	VV	38741	729059	28.10%	0.550%
98	7.807	7.788	7.816	VV	20813	297409	11.46%	0.224%
99	7.842	7.816	7.860	VV	51076	974369	37.55%	0.735%
100	7.874	7.860	7.887	VV	43634	560510	21.60%	0.423%
101	7.904	7.887	7.919	VV	49998	715065	27.56%	0.540%
102	7.936	7.919	7.954	VV	91623	1147401	44.22%	0.866%
103	7.958	7.954	7.979	VV	32061	410206	15.81%	0.310%
104	7.998	7.979	8.010	VV	33789	540037	20.81%	0.407%
105	8.026	8.010	8.059	VV	42736	783362	30.19%	0.591%
106	8.083	8.059	8.094	VV	48490	649992	25.05%	0.490%
107	8.106	8.094	8.122	VV	52677	633451	24.41%	0.478%
108	8.142	8.122	8.184	VV	75693	1389442	53.55%	1.048%
109	8.220	8.184	8.269	VV	110800	1888390	72.78%	1.425%
110	8.292	8.269	8.299	VV	30116	464325	17.90%	0.350%
111	8.311	8.299	8.325	VV	35019	474901	18.30%	0.358%
112	8.354	8.325	8.365	VV	47552	826449	31.85%	0.624%
113	8.372	8.365	8.386	VV	42160	493830	19.03%	0.373%
114	8.397	8.386	8.413	VV	38058	498705	19.22%	0.376%
115	8.432	8.413	8.454	VV	35091	710141	27.37%	0.536%
116	8.469	8.454	8.503	VV	41231	803422	30.97%	0.606%
117	8.520	8.503	8.528	VV	28699	376650	14.52%	0.284%
118	8.536	8.528	8.544	VV	28529	254486	9.81%	0.192%
119	8.560	8.544	8.595	VV	40668	995397	38.37%	0.751%
120	8.607	8.595	8.623	VV	29383	450525	17.36%	0.340%
121	8.657	8.623	8.675	VV	34975	861228	33.19%	0.650%
122	8.686	8.675	8.700	VV	27979	388922	14.99%	0.293%
123	8.706	8.700	8.712	VV	23392	161105	6.21%	0.122%
124	8.728	8.712	8.736	VV	35783	447172	17.24%	0.337%
125	8.753	8.736	8.813	VV	78397	1884003	72.61%	1.422%
126	8.833	8.813	8.852	VV	32732	623890	24.05%	0.471%
127	8.879	8.852	8.898	VV	32256	716484	27.62%	0.541%
128	8.914	8.898	8.929	VV	32739	487082	18.77%	0.368%
129	8.964	8.929	8.981	VV	38163	888788	34.26%	0.671%
130	8.991	8.981	9.000	VV	26659	296620	11.43%	0.224%
131	9.018	9.000	9.055	VV	43746	1035273	39.90%	0.781%
132	9.071	9.055	9.080	VV	28585	385283	14.85%	0.291%
133	9.091	9.080	9.104	VV	28959	381619	14.71%	0.288%
134	9.118	9.104	9.139	VV	28095	515295	19.86%	0.389%
135	9.174	9.139	9.190	VV	41343	927841	35.76%	0.700%
136	9.206	9.190	9.232	VV	37201	745888	28.75%	0.563%
137	9.252	9.232	9.268	VV	30803	566593	21.84%	0.428%
138	9.287	9.268	9.296	VV	38218	530904	20.46%	0.401%
139	9.300	9.296	9.324	VV	36247	531871	20.50%	0.401%
140	9.337	9.324	9.354	VV	31443	515153	19.86%	0.389%
141	9.381	9.354	9.410	VV	39179	1044569	40.26%	0.788%

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142	9.420	9.410	9.428	VV	29589	304829	11.75%	0.230%
143	9.455	9.428	9.464	VV	33799	690303	26	
144	9.475	9.464	9.491	VV	36282	507983	19	
145	9.526	9.491	9.564	VV	79179	1616404	62	
146	9.603	9.564	9.617	VV	25917	727929	28	
147	9.626	9.617	9.644	VV	21836	324208	12	
148	9.679	9.644	9.732	VV	32995	1271753	49.02%	0.960%
149	9.765	9.732	9.771	VV	25463	556551	21.45%	0.420%
150	9.780	9.771	9.794	VV	26029	338909	13.06%	0.256%
151	9.840	9.794	9.856	VV	28834	927446	35.75%	0.700%
152	9.869	9.856	9.882	VV	28600	418935	16.15%	0.316%
153	9.905	9.882	9.932	VV	42897	993724	38.30%	0.750%
154	9.958	9.932	9.986	VV	38778	976285	37.63%	0.737%
155	10.006	9.986	10.032	VV	37835	850480	32.78%	0.642%
156	10.049	10.032	10.068	VV	34384	617157	23.79%	0.466%
157	10.085	10.068	10.097	VV	28985	469331	18.09%	0.354%
158	10.109	10.097	10.122	VV	29605	401302	15.47%	0.303%
159	10.140	10.122	10.167	VV	41195	847594	32.67%	0.640%
160	10.183	10.167	10.200	VV	28873	512504	19.75%	0.387%
161	10.225	10.200	10.236	VV	26897	536925	20.69%	0.405%
162	10.259	10.236	10.280	VV	77668	1215632	46.85%	0.917%
163	10.288	10.280	10.304	VV	29522	400560	15.44%	0.302%
164	10.333	10.304	10.377	VV	44715	1461048	56.31%	1.102%
165	10.389	10.377	10.414	VV	25522	492428	18.98%	0.372%
166	10.448	10.414	10.463	VV	27492	715288	27.57%	0.540%
167	10.479	10.463	10.502	VV	32873	634090	24.44%	0.478%
168	10.520	10.502	10.540	VV	33159	629619	24.27%	0.475%
169	10.557	10.540	10.568	VV	26922	407280	15.70%	0.307%
170	10.580	10.568	10.615	VV	27819	695830	26.82%	0.525%
171	10.644	10.615	10.652	VV	26416	544126	20.97%	0.411%
172	10.659	10.652	10.688	VV	26198	519870	20.04%	0.392%
173	10.710	10.688	10.773	VV	27577	1210686	46.66%	0.914%
174	10.794	10.773	10.818	VV	28107	638650	24.62%	0.482%
175	10.848	10.818	10.866	VV	25581	656346	25.30%	0.495%
176	10.886	10.866	10.906	VV	26995	597107	23.01%	0.451%
177	10.915	10.906	10.935	VV	23018	385483	14.86%	0.291%
178	10.957	10.935	10.994	VV	62492	1243114	47.91%	0.938%
179	11.003	10.994	11.024	VV	21588	367096	14.15%	0.277%
180	11.048	11.024	11.081	VV	38581	923802	35.61%	0.697%
181	11.114	11.081	11.126	VV	24533	614983	23.70%	0.464%
182	11.155	11.126	11.173	VV	24718	645786	24.89%	0.487%
183	11.180	11.173	11.201	VV	21005	328020	12.64%	0.248%
184	11.254	11.201	11.278	VV	172693	2594533	100.00%	1.958%
185	11.284	11.278	11.298	VV	22645	263557	10.16%	0.199%
186	11.317	11.298	11.329	VV	23207	398670	15.37%	0.301%
187	11.349	11.329	11.357	VV	25117	403225	15.54%	0.304%
188	11.363	11.357	11.377	VV	24763	282475	10.89%	0.213%
189	11.385	11.377	11.412	VV	22538	463705	17.87%	0.350%
190	11.431	11.412	11.454	VV	25860	576262	22.21%	0.435%
191	11.469	11.454	11.486	VV	21779	399654	15.40%	0.302%
192	11.496	11.486	11.510	VV	21175	298107	11.49%	0.225%
193	11.530	11.510	11.551	VV	21011	489414	18.86%	0.369%
194	11.623	11.551	11.649	VV	50211	1507170	58.09%	1.137%

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195	11.675	11.649	11.702	VV	38812	822675	31.71%	0.621%
196	11.706	11.702	11.726	VV	18555	256750	9	
197	11.743	11.726	11.754	VV	17292	275430	10	
198	11.766	11.754	11.794	VV	17014	390989	15	
199	11.808	11.794	11.821	VV	16472	264836	10	
200	11.842	11.821	11.860	VV	17009	383453	14	
201	11.894	11.860	11.937	VV	19624	807407	31.12%	0.609%
202	11.959	11.937	11.983	VV	19446	493240	19.01%	0.372%
203	11.997	11.983	12.010	VV	18142	280522	10.81%	0.212%
204	12.024	12.010	12.054	VV	18587	435088	16.77%	0.328%
205	12.075	12.054	12.120	VV	21569	709605	27.35%	0.535%
206	12.131	12.120	12.148	VV	17018	272123	10.49%	0.205%
207	12.177	12.148	12.197	VV	20756	516969	19.93%	0.390%
208	12.218	12.197	12.231	VV	17806	346061	13.34%	0.261%
209	12.258	12.231	12.279	VV	35813	684869	26.40%	0.517%
210	12.297	12.279	12.360	VV	19092	796467	30.70%	0.601%
211	12.364	12.360	12.385	VV	13638	199280	7.68%	0.150%
212	12.399	12.385	12.411	VV	13862	203301	7.84%	0.153%
213	12.418	12.411	12.435	VV	13401	192176	7.41%	0.145%
214	12.444	12.435	12.470	VV	12486	248662	9.58%	0.188%
215	12.515	12.470	12.537	VV	13739	504490	19.44%	0.381%
216	12.541	12.537	12.562	VV	12450	175979	6.78%	0.133%
217	12.585	12.562	12.625	VV	16489	501349	19.32%	0.378%
218	12.628	12.625	12.633	VV	11581	51036	1.97%	0.039%
219	12.684	12.633	12.719	VV	105668	2116246	81.57%	1.597%
220	12.739	12.719	12.764	VV	78534	1101098	42.44%	0.831%
221	12.773	12.764	12.805	VV	15712	316564	12.20%	0.239%
222	12.825	12.805	12.840	VV	10683	213863	8.24%	0.161%
223	12.866	12.840	12.894	VV	27247	548022	21.12%	0.414%
224	12.920	12.894	12.969	VV	22096	613485	23.65%	0.463%
225	12.986	12.969	13.007	VV	10839	236865	9.13%	0.179%
226	13.024	13.007	13.058	VV	10834	305413	11.77%	0.230%
227	13.104	13.058	13.117	VV	12047	379919	14.64%	0.287%
228	13.123	13.117	13.154	VV	11066	227158	8.76%	0.171%
229	13.170	13.154	13.184	VV	9725	171036	6.59%	0.129%
230	13.202	13.184	13.231	VV	9449	250245	9.65%	0.189%
231	13.244	13.231	13.257	VV	8396	127322	4.91%	0.096%
232	13.273	13.257	13.305	VV	9080	249604	9.62%	0.188%
233	13.324	13.305	13.342	VV	11950	230819	8.90%	0.174%
234	13.354	13.342	13.384	VV	9652	221298	8.53%	0.167%
235	13.399	13.384	13.422	VV	8276	187040	7.21%	0.141%
236	13.448	13.422	13.472	VV	20121	380316	14.66%	0.287%
237	13.487	13.472	13.522	VV	9858	259767	10.01%	0.196%
238	13.540	13.522	13.569	VV	8819	219691	8.47%	0.166%
239	13.573	13.569	13.577	VV	6976	35256	1.36%	0.027%
240	13.581	13.577	13.609	VV	6885	126253	4.87%	0.095%
241	13.619	13.609	13.641	VV	6986	133105	5.13%	0.100%
242	13.669	13.641	13.676	VV	7190	144185	5.56%	0.109%
243	13.683	13.676	13.694	VV	7155	72276	2.79%	0.055%
244	13.710	13.694	13.725	VV	7178	129644	5.00%	0.098%
245	13.734	13.725	13.772	VV	6899	187852	7.24%	0.142%
246	13.793	13.772	13.828	VV	7747	231401	8.92%	0.175%

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Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 10/29/2024
Supervised By :Ankita Jodhani 10/29/2024

rteres

247	13.845	13.828	13.877	VV	6587	182313	7.03%	0.138%
248	13.900	13.877	13.920	VV	7127	172196	6	
249	13.925	13.920	13.962	VV	6711	150751	5	
250	14.009	13.962	14.047	VV	10999	359945	13	
251	14.067	14.047	14.088	VV	7532	159564	6	
252	14.109	14.088	14.129	VV	7146	155398	5	
253	14.149	14.129	14.166	VV	6886	140215	5.40%	0.106%
254	14.180	14.166	14.203	VV	6656	132491	5.11%	0.100%
255	14.212	14.203	14.229	VV	5445	84832	3.27%	0.064%
256	14.235	14.229	14.244	VV	5281	45323	1.75%	0.034%
257	14.272	14.244	14.292	VV	5964	155760	6.00%	0.118%
258	14.310	14.292	14.336	VV	5896	140990	5.43%	0.106%
259	14.352	14.336	14.403	VV	5410	197110	7.60%	0.149%
260	14.408	14.403	14.438	VV	4686	90982	3.51%	0.069%
261	14.451	14.438	14.480	VV	4448	107082	4.13%	0.081%
262	14.505	14.480	14.524	VV	4624	112926	4.35%	0.085%
263	14.546	14.524	14.575	VV	7360	166312	6.41%	0.125%
264	14.607	14.575	14.640	VV	4769	170992	6.59%	0.129%
265	14.645	14.640	14.659	VV	4070	44078	1.70%	0.033%
266	14.668	14.659	14.694	VV	4134	84203	3.25%	0.064%
267	14.700	14.694	14.721	VV	3827	60024	2.31%	0.045%
268	14.740	14.721	14.753	VV	4114	77063	2.97%	0.058%
269	14.767	14.753	14.802	VV	4583	117640	4.53%	0.089%
270	14.813	14.802	14.827	VV	3561	51870	2.00%	0.039%
271	14.844	14.827	14.865	VV	3913	82796	3.19%	0.062%
272	14.923	14.865	14.955	VV	8275	273475	10.54%	0.206%
273	14.968	14.955	15.010	VV	4443	126630	4.88%	0.096%
274	15.025	15.010	15.031	VV	3646	45015	1.74%	0.034%
275	15.065	15.031	15.100	VV	4837	163364	6.30%	0.123%
276	15.122	15.100	15.151	VV	4308	109628	4.23%	0.083%
277	15.162	15.151	15.175	VV	3285	46117	1.78%	0.035%
278	15.179	15.175	15.207	VV	3115	56480	2.18%	0.043%
279	15.228	15.207	15.243	VV	3199	66575	2.57%	0.050%
280	15.249	15.243	15.253	VV	3293	19744	0.76%	0.015%
281	15.274	15.253	15.309	VV	3409	104429	4.02%	0.079%
282	15.313	15.309	15.318	VV	2750	15557	0.60%	0.012%
283	15.334	15.318	15.344	VV	2880	41947	1.62%	0.032%
284	15.345	15.344	15.350	VV	2885	11209	0.43%	0.008%
285	15.372	15.350	15.419	VV	3172	117851	4.54%	0.089%
286	15.438	15.419	15.442	VV	2957	39322	1.52%	0.030%
287	15.450	15.442	15.478	VV	3145	63080	2.43%	0.048%
288	15.483	15.478	15.489	VV	2927	18828	0.73%	0.014%
289	15.494	15.489	15.499	VV	2891	17491	0.67%	0.013%
290	15.502	15.499	15.510	VV	2805	18462	0.71%	0.014%
291	15.521	15.510	15.541	VV	3427	58003	2.24%	0.044%
292	15.561	15.541	15.586	VV	3946	87808	3.38%	0.066%
293	15.618	15.586	15.651	VV	3536	115647	4.46%	0.087%
294	15.655	15.651	15.674	VV	2647	35858	1.38%	0.027%
295	15.685	15.674	15.696	VV	2531	32247	1.24%	0.024%
296	15.715	15.696	15.740	VV	2739	67867	2.62%	0.051%
297	15.750	15.740	15.764	VV	2762	38313	1.48%	0.029%
298	15.777	15.764	15.789	VV	2999	39335	1.52%	0.030%
299	15.800	15.789	15.842	VV	2908	82659	3.19%	0.062%

Instrument :
FID_D
ClientSampleId :
PT-NJEPH-SOILDL

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 10/29/2024
Supervised By :Ankita Jodhani 10/29/2024

rteres

300	15.846	15.842	15.852	VV	2649	15595	0.60%	0.012%
301	15.855	15.852	15.859	VV	2686	11826		
302	15.862	15.859	15.887	VV	2661	43681		
303	15.892	15.887	15.896	VV	2617	13451		
304	15.903	15.896	15.910	VV	2855	23230		

Sum of corrected areas: 1325

Aromatic EPH 102324.M Tue Oct 29 05:46:30 2024

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

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	10/21/24
Project:	NJ Soil PT	Date Received:	10/23/24
Client Sample ID:	PT-NJEPH-SOILDL2	SDG No.:	P4495
Lab Sample ID:	P4495-16DL2	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	100
Sample Wt/Vol:	20.27 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FC067537.D	10	10/25/24	10/28/24	PB164396

CAS Number	Parameter		Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
Aliphatic C9-C12	Aliphatic C9-C12		177		5.62	14.8	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16		388	E	3.55	9.87	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21		345	E	4.44	14.8	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28		51.6		11.8	19.7	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40		12.8	J	26.6	29.6	mg/kg
SURROGATES							
3383-33-2	1-chlorooctadecane (SURR)		4.75		40 - 140	95%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)		0.00		40 - 140	0%	SPK: 50

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

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	P4495-16DL2	Acq On:	28 Oct 2024 11:26
Client Sample ID:	PT-NJEPH-SOILDL2	Operator:	YP/AJ
Data file:	FC067537.D	Misc:	
Instrument:	FID_C	ALS Vial:	13
Dilution Factor:	10	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.173	6.453	24358182	179.805	300	ug/ml
Aliphatic C12-C16	6.454	9.842	51887370	394.036	200	ug/ml
Aliphatic C16-C21	9.843	13.200	44514669	349.862	300	ug/ml
Aliphatic C21-C28	13.201	16.853	6278967	52.285	400	ug/ml
Aliphatic C28-C40	16.854	21.695	1306494	12.924	600	ug/ml
Aliphatic EPH	3.173	21.695	128345682	988.912		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	12.933	12.933	512964	4.75		ug/ml
Aliphatic C9-C28	3.173	16.853	127039188	975.988	1200	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC102824AL\
Data File : FC067537.D
Signal(s) : FID1A.ch
Acq On : 28 Oct 2024 11:26
Operator : YP/AJ
Sample : P4495-16DL2 10X
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
PT-NJEPH-SOILDL2

Integration File: sample.E
Quant Time: Oct 29 00:04:53 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 18:12:58 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			
12) S 1-chlorooctadecane (S...	12.933	512964	4.750 ug/ml
Spiked Amount 50.000		Recovery =	9.50%
Target Compounds			

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

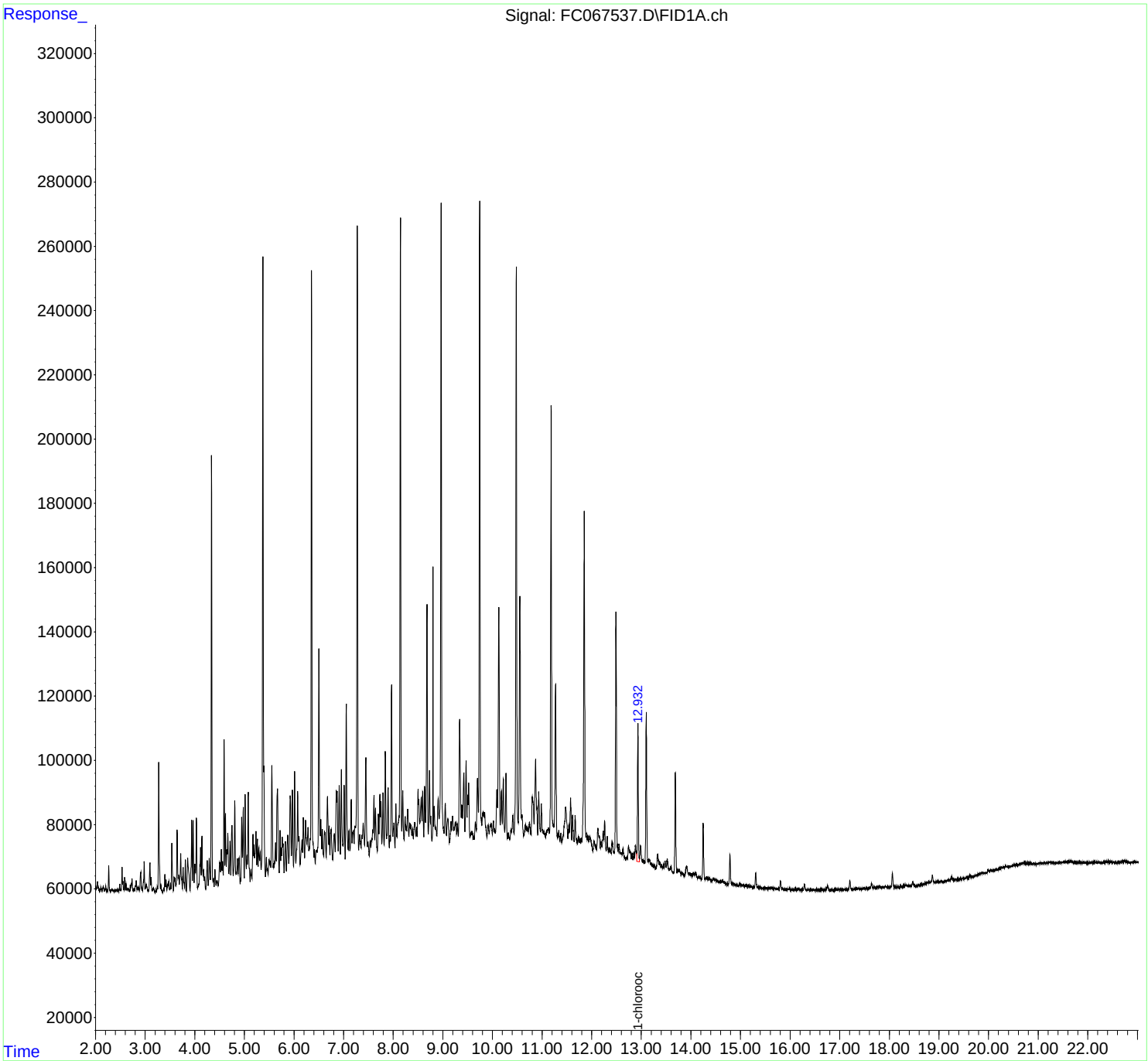
Quantitation Report (QT Reviewed)

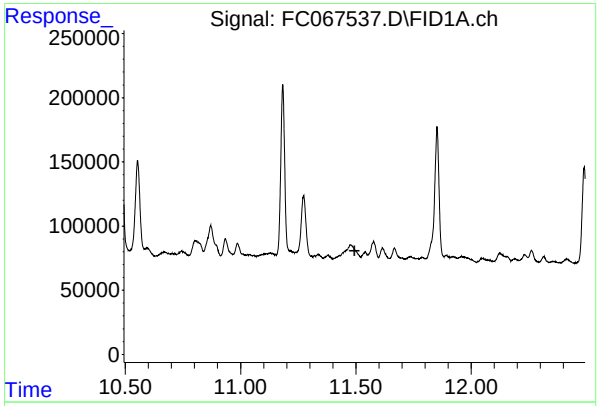
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC102824AL\
Data File : FC067537.D
Signal(s) : FID1A.ch
Acq On : 28 Oct 2024 11:26
Operator : YP/AJ
Sample : P4495-16DL2 10X
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
PT-NJEPH-SOILDL2

Integration File: sample.E
Quant Time: Oct 29 00:04:53 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 18:12:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

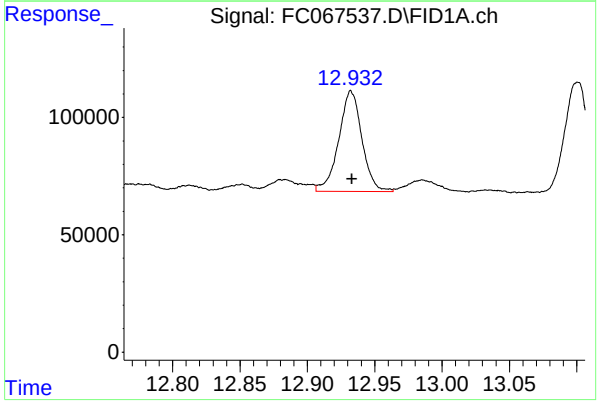




#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.494 min
Response: 0
Conc: N.D.

Instrument :
FID_C
ClientSampleId :
PT-NJEPH-SOILDL2



#12 1-chlorooctadecane (SURR)

R.T.: 12.933 min
Delta R.T.: 0.000 min
Response: 512964
Conc: 4.75 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC102824AL\
Data File : FC067537.D
Signal(s) : FID1A.ch
Acq On : 28 Oct 2024 11:26
Sample : P4495-16DL2 10X
Misc :
ALS Vial : 13 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 102324.M
Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.168	3.154	3.203	PH	1199	14475	0.43%	0.011%
2	3.219	3.203	3.230	PV	566	5375	0.16%	0.004%
3	3.274	3.230	3.308	VV	40109	441346	13.05%	0.340%
4	3.318	3.308	3.352	VV	1817	21530	0.64%	0.017%
5	3.372	3.352	3.380	PV	1039	8573	0.25%	0.007%
6	3.397	3.380	3.410	VV	5339	50855	1.50%	0.039%
7	3.421	3.410	3.437	VV	3791	37784	1.12%	0.029%
8	3.452	3.437	3.460	VV	2364	23505	0.69%	0.018%
9	3.475	3.460	3.497	VV	3317	43894	1.30%	0.034%
10	3.512	3.497	3.520	VV	2705	22587	0.67%	0.017%
11	3.537	3.520	3.569	VV	14964	179062	5.29%	0.138%
12	3.586	3.569	3.618	VV	4407	88098	2.60%	0.068%
13	3.645	3.618	3.665	VV	19362	228416	6.75%	0.176%
14	3.673	3.665	3.688	VV	5279	58785	1.74%	0.045%
15	3.717	3.688	3.749	VV	11807	193530	5.72%	0.149%
16	3.765	3.749	3.794	VV	7582	100127	2.96%	0.077%
17	3.811	3.794	3.830	VV	9983	92690	2.74%	0.071%
18	3.858	3.830	3.904	VV	10469	226999	6.71%	0.175%
19	3.938	3.904	3.953	VV	22122	264805	7.83%	0.204%
20	3.967	3.953	3.986	VV	22042	222330	6.57%	0.171%
21	4.001	3.986	4.015	VV	8595	107091	3.17%	0.082%
22	4.034	4.015	4.057	VV	22982	255220	7.54%	0.196%
23	4.117	4.057	4.129	VV	13847	246056	7.27%	0.189%
24	4.144	4.129	4.168	VV	17341	228592	6.76%	0.176%
25	4.178	4.168	4.192	VV	7033	80056	2.37%	0.062%
26	4.200	4.192	4.220	VV	4656	45755	1.35%	0.035%
27	4.251	4.220	4.270	VV	9715	141821	4.19%	0.109%
28	4.292	4.270	4.314	VV	10469	161764	4.78%	0.124%
29	4.338	4.314	4.367	VV	135592	1325119	39.17%	1.020%
30	4.376	4.367	4.390	VV	4204	45939	1.36%	0.035%
31	4.408	4.390	4.428	VV	6853	94046	2.78%	0.072%
32	4.454	4.428	4.471	VV	3389	72591	2.15%	0.056%
33	4.503	4.471	4.519	VV	9063	176014	5.20%	0.135%
34	4.535	4.519	4.550	VV	13171	173547	5.13%	0.134%
35	4.561	4.550	4.573	VV	9351	107607	3.18%	0.083%
36	4.592	4.573	4.607	VV	47445	471780	13.95%	0.363%

rteres

37	4.619	4.607	4.634	VV	24269	251609	7.44%	0.194%
38	4.667	4.634	4.687	VV	18272	376513	11.13%	0.290%
39	4.711	4.687	4.726	VV	15678	229181	6.77%	0.176%
40	4.750	4.726	4.775	VV	20770	385954	11.41%	0.297%
41	4.807	4.775	4.840	VV	28214	447271	13.22%	0.344%
42	4.859	4.840	4.874	VV	10200	153382	4.53%	0.118%
43	4.893	4.874	4.915	VV	10485	181901	5.38%	0.140%
44	4.946	4.915	4.961	VV	22982	305542	9.03%	0.235%
45	4.977	4.961	4.997	VV	26151	324155	9.58%	0.249%
46	5.016	4.997	5.040	VV	30032	381323	11.27%	0.293%
47	5.053	5.040	5.060	VV	11364	116630	3.45%	0.090%
48	5.077	5.060	5.116	VV	30882	449304	13.28%	0.346%
49	5.132	5.116	5.151	VV	6995	111503	3.30%	0.086%
50	5.174	5.151	5.185	VV	17873	232038	6.86%	0.179%
51	5.194	5.185	5.206	VV	14690	156632	4.63%	0.121%
52	5.234	5.206	5.249	VV	18731	352670	10.43%	0.271%
53	5.262	5.249	5.277	VV	16279	202982	6.00%	0.156%
54	5.291	5.277	5.308	VV	13611	211104	6.24%	0.162%
55	5.321	5.308	5.338	VV	12400	182340	5.39%	0.140%
56	5.373	5.338	5.425	VV	197868	2487646	73.54%	1.914%
57	5.442	5.425	5.477	VV	10643	233053	6.89%	0.179%
58	5.498	5.477	5.511	VV	9946	167966	4.97%	0.129%
59	5.520	5.511	5.533	VV	9437	118437	3.50%	0.091%
60	5.554	5.533	5.596	VV	39017	662775	19.59%	0.510%
61	5.629	5.596	5.641	VV	15118	301216	8.90%	0.232%
62	5.667	5.641	5.702	VV	31990	689556	20.38%	0.531%
63	5.719	5.702	5.733	VV	19223	238041	7.04%	0.183%
64	5.764	5.733	5.775	VV	16935	343170	10.14%	0.264%
65	5.781	5.775	5.801	VV	14954	174270	5.15%	0.134%
66	5.826	5.801	5.846	VV	15656	292254	8.64%	0.225%
67	5.875	5.846	5.895	VV	17508	373968	11.05%	0.288%
68	5.925	5.895	5.949	VV	29678	623628	18.43%	0.480%
69	5.969	5.949	5.991	VV	31290	457052	13.51%	0.352%
70	6.014	5.991	6.038	VV	37284	549490	16.24%	0.423%
71	6.075	6.038	6.091	VV	30993	565449	16.72%	0.435%
72	6.102	6.091	6.124	VV	16920	277695	8.21%	0.214%
73	6.161	6.124	6.173	VV	16075	364704	10.78%	0.281%
74	6.188	6.173	6.215	VV	22881	413095	12.21%	0.318%
75	6.235	6.215	6.261	VV	22172	474149	14.02%	0.365%
76	6.283	6.261	6.301	VV	20049	391662	11.58%	0.301%
77	6.354	6.301	6.402	VV	192946	2631979	77.80%	2.025%
78	6.413	6.402	6.429	VV	13096	180931	5.35%	0.139%
79	6.448	6.429	6.465	VV	12833	250673	7.41%	0.193%
80	6.503	6.465	6.530	VV	74999	1179184	34.86%	0.907%
81	6.542	6.530	6.560	VV	22320	335914	9.93%	0.258%
82	6.573	6.560	6.597	VV	19303	319253	9.44%	0.246%
83	6.619	6.597	6.649	VV	18726	477573	14.12%	0.367%
84	6.675	6.649	6.699	VV	29386	606322	17.92%	0.467%
85	6.710	6.699	6.724	VV	20382	244834	7.24%	0.188%
86	6.749	6.724	6.780	VV	19289	506804	14.98%	0.390%
87	6.812	6.780	6.832	VV	17837	449584	13.29%	0.346%
88	6.870	6.832	6.892	VV	31357	839626	24.82%	0.646%
89	6.912	6.892	6.935	VV	32661	539819	15.96%	0.415%

90	6.956	6.935	6.991	VV	37782	714097	21.11%	0.550%
91	7.012	6.991	7.032	VV	32997	514406	15.21%	0.396%
92	7.054	7.032	7.091	VV	58266	964505	28.51%	0.742%
93	7.108	7.091	7.128	VV	18909	343042	10.14%	0.264%
94	7.154	7.128	7.172	VV	28510	509580	15.06%	0.392%
95	7.197	7.172	7.212	VV	18966	418338	12.37%	0.322%
96	7.277	7.212	7.304	VV	207680	2920819	86.34%	2.248%
97	7.326	7.304	7.352	VV	17727	442615	13.08%	0.341%
98	7.369	7.352	7.377	VV	17395	240490	7.11%	0.185%
99	7.396	7.377	7.422	VV	21273	491369	14.53%	0.378%
100	7.449	7.422	7.479	VV	41278	832820	24.62%	0.641%
101	7.492	7.479	7.518	VV	15369	324050	9.58%	0.249%
102	7.537	7.518	7.550	VV	15719	273675	8.09%	0.211%
103	7.612	7.550	7.628	VV	29583	898281	26.55%	0.691%
104	7.643	7.628	7.680	VV	25653	574735	16.99%	0.442%
105	7.702	7.680	7.714	VV	24044	381046	11.26%	0.293%
106	7.731	7.714	7.744	VV	30109	442842	13.09%	0.341%
107	7.754	7.744	7.772	VV	27838	373083	11.03%	0.287%
108	7.796	7.772	7.817	VV	30640	563841	16.67%	0.434%
109	7.842	7.817	7.868	VV	43188	793459	23.46%	0.611%
110	7.898	7.868	7.921	VV	32310	680533	20.12%	0.524%
111	7.967	7.921	7.993	VV	63991	1195687	35.35%	0.920%
112	8.014	7.993	8.038	VV	21188	491121	14.52%	0.378%
113	8.055	8.038	8.075	VV	27350	466504	13.79%	0.359%
114	8.146	8.075	8.173	VV	205069	3170205	93.71%	2.440%
115	8.193	8.173	8.221	VV	31256	648531	19.17%	0.499%
116	8.241	8.221	8.272	VV	23059	605426	17.90%	0.466%
117	8.293	8.272	8.316	VV	25440	585171	17.30%	0.450%
118	8.335	8.316	8.347	VV	20999	359709	10.63%	0.277%
119	8.357	8.347	8.377	VV	20581	354439	10.48%	0.273%
120	8.391	8.377	8.406	VV	19485	306768	9.07%	0.236%
121	8.435	8.406	8.459	VV	21410	613493	18.14%	0.472%
122	8.471	8.459	8.483	VV	19802	264238	7.81%	0.203%
123	8.501	8.483	8.534	VV	31495	786154	23.24%	0.605%
124	8.564	8.534	8.580	VV	29043	676543	20.00%	0.521%
125	8.595	8.580	8.617	VV	30808	553357	16.36%	0.426%
126	8.635	8.617	8.652	VV	32670	531518	15.71%	0.409%
127	8.682	8.652	8.708	VV	89096	1464575	43.29%	1.127%
128	8.733	8.708	8.781	VV	37344	1035169	30.60%	0.797%
129	8.801	8.781	8.848	VV	45622	878101	25.96%	0.676%
130	8.857	8.848	8.877	VV	19965	334324	9.88%	0.257%
131	8.906	8.877	8.928	VV	28397	715207	21.14%	0.550%
132	8.967	8.928	9.024	VV	213231	3382854	100.00%	2.603%
133	9.050	9.024	9.073	VV	27057	634460	18.76%	0.488%
134	9.103	9.073	9.138	VV	22418	753633	22.28%	0.580%
135	9.166	9.138	9.178	VV	21646	454656	13.44%	0.350%
136	9.197	9.178	9.218	VV	23427	512668	15.15%	0.395%
137	9.249	9.218	9.261	VV	21318	513542	15.18%	0.395%
138	9.263	9.261	9.280	VV	20984	217486	6.43%	0.167%
139	9.295	9.280	9.313	VV	20912	377472	11.16%	0.290%
140	9.340	9.313	9.372	VV	52571	1208466	35.72%	0.930%
141	9.383	9.372	9.398	VV	26426	397185	11.74%	0.306%

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142	9.424	9.398	9.446	VV	36812	805593	23.81%	0.620%
143	9.470	9.446	9.488	VV	40271	731150	21.61%	0.563%
144	9.503	9.488	9.510	VV	29743	365066	10.79%	0.281%
145	9.522	9.510	9.548	VV	33172	574356	16.98%	0.442%
146	9.588	9.548	9.615	VV	18495	713869	21.10%	0.549%
147	9.624	9.615	9.634	VV	16804	188770	5.58%	0.145%
148	9.658	9.634	9.674	VV	21441	453773	13.41%	0.349%
149	9.699	9.674	9.718	VV	35136	747215	22.09%	0.575%
150	9.744	9.718	9.787	VV	214352	2968862	87.76%	2.285%
151	9.812	9.787	9.834	VV	24534	653515	19.32%	0.503%
152	9.844	9.834	9.887	VV	24025	664457	19.64%	0.511%
153	9.912	9.887	9.935	VV	20416	550070	16.26%	0.423%
154	9.975	9.935	9.998	VV	20881	735016	21.73%	0.566%
155	10.019	9.998	10.061	VV	21758	723431	21.39%	0.557%
156	10.090	10.061	10.102	VV	31113	608377	17.98%	0.468%
157	10.130	10.102	10.160	VV	88253	1714457	50.68%	1.319%
158	10.180	10.160	10.200	VV	31096	611536	18.08%	0.471%
159	10.220	10.200	10.249	VV	34767	752197	22.24%	0.579%
160	10.275	10.249	10.303	VV	36501	794430	23.48%	0.611%
161	10.318	10.303	10.341	VV	17950	399714	11.82%	0.308%
162	10.412	10.341	10.437	VV	23559	1097888	32.45%	0.845%
163	10.481	10.437	10.519	VV	193393	3006247	88.87%	2.313%
164	10.554	10.519	10.585	VV	91010	1809730	53.50%	1.393%
165	10.594	10.585	10.629	VV	23562	546244	16.15%	0.420%
166	10.669	10.629	10.698	VV	20516	786865	23.26%	0.606%
167	10.745	10.698	10.774	VV	21324	884278	26.14%	0.680%
168	10.805	10.774	10.839	VV	29240	974135	28.80%	0.750%
169	10.871	10.839	10.914	VV	40930	1259235	37.22%	0.969%
170	10.934	10.914	10.968	VV	30637	739661	21.87%	0.569%
171	10.987	10.968	11.022	VV	26915	695994	20.57%	0.536%
172	11.040	11.022	11.067	VV	18616	481385	14.23%	0.370%
173	11.131	11.067	11.154	VV	19541	971719	28.72%	0.748%
174	11.183	11.154	11.234	VV	151330	2469151	72.99%	1.900%
175	11.273	11.234	11.314	VV	64283	1524755	45.07%	1.173%
176	11.336	11.314	11.361	VV	18642	482361	14.26%	0.371%
177	11.379	11.361	11.400	VV	17900	385220	11.39%	0.296%
178	11.477	11.400	11.521	VV	25842	1452458	42.94%	1.118%
179	11.540	11.521	11.552	VV	20396	355576	10.51%	0.274%
180	11.577	11.552	11.598	VV	28799	619763	18.32%	0.477%
181	11.615	11.598	11.646	VV	23356	539608	15.95%	0.415%
182	11.667	11.646	11.715	VV	23266	731522	21.62%	0.563%
183	11.736	11.715	11.771	VV	16759	537969	15.90%	0.414%
184	11.788	11.771	11.802	VV	16284	285174	8.43%	0.219%
185	11.852	11.802	11.882	VV	116985	2142506	63.33%	1.649%
186	11.891	11.882	11.910	VV	17693	282875	8.36%	0.218%
187	11.921	11.910	11.941	VV	16968	304249	8.99%	0.234%
188	11.958	11.941	12.023	VV	16962	749416	22.15%	0.577%
189	12.049	12.023	12.096	VV	15427	610647	18.05%	0.470%
190	12.124	12.096	12.173	VV	19391	760826	22.49%	0.585%
191	12.189	12.173	12.208	VV	15214	299320	8.85%	0.230%
192	12.232	12.208	12.246	VV	18405	369005	10.91%	0.284%
193	12.262	12.246	12.293	VV	21567	469436	13.88%	0.361%
194	12.315	12.293	12.339	VV	16681	388794	11.49%	0.299%

195	12.354	12.339	12.391	VV	13148	392363	11.60%	0.302%
196	12.414	12.391	12.444	VV	14997	428475	12.67%	0.330%
197	12.490	12.444	12.534	VV	87139	1575518	46.57%	1.212%
198	12.551	12.534	12.594	VV	14249	446818	13.21%	0.344%
199	12.634	12.594	12.698	VV	13139	687843	20.33%	0.529%
200	12.707	12.698	12.719	VV	10440	132459	3.92%	0.102%
201	12.743	12.719	12.797	VV	13738	556000	16.44%	0.428%
202	12.812	12.797	12.830	VV	11576	211909	6.26%	0.163%
203	12.851	12.830	12.864	VV	12008	222684	6.58%	0.171%
204	12.883	12.864	12.906	VV	13999	318140	9.40%	0.245%
205	12.932	12.906	12.964	VV	51697	828353	24.49%	0.637%
206	12.985	12.964	13.020	VV	13834	373943	11.05%	0.288%
207	13.034	13.020	13.067	VV	9547	256576	7.58%	0.197%
208	13.100	13.067	13.154	VV	55747	1047255	30.96%	0.806%
209	13.169	13.154	13.248	VV	9543	468636	13.85%	0.361%
210	13.263	13.248	13.288	VV	8038	178818	5.29%	0.138%
211	13.331	13.288	13.356	VV	11236	360335	10.65%	0.277%
212	13.374	13.356	13.394	VV	8787	188420	5.57%	0.145%
213	13.407	13.394	13.428	VV	8013	157895	4.67%	0.122%
214	13.448	13.428	13.462	VV	8156	152249	4.50%	0.117%
215	13.481	13.462	13.500	VV	9113	185472	5.48%	0.143%
216	13.523	13.500	13.563	VV	9904	302916	8.95%	0.233%
217	13.595	13.563	13.650	VV	7462	333581	9.86%	0.257%
218	13.685	13.650	13.724	VV	36343	637800	18.85%	0.491%
219	13.742	13.724	13.757	VV	6569	120897	3.57%	0.093%
220	13.771	13.757	13.808	VV	6396	173711	5.14%	0.134%
221	13.828	13.808	13.874	VV	5363	200015	5.91%	0.154%
222	13.915	13.874	13.964	VV	7463	324778	9.60%	0.250%
223	13.980	13.964	14.008	VV	5569	130655	3.86%	0.101%
224	14.015	14.008	14.029	VV	5125	62228	1.84%	0.048%
225	14.049	14.029	14.064	VV	5606	105782	3.13%	0.081%
226	14.074	14.064	14.083	VV	5363	59869	1.77%	0.046%
227	14.099	14.083	14.138	VV	5615	157010	4.64%	0.121%
228	14.152	14.138	14.169	VV	4148	75678	2.24%	0.058%
229	14.184	14.169	14.218	VV	4262	111166	3.29%	0.086%
230	14.247	14.218	14.294	VV	20770	377199	11.15%	0.290%
231	14.315	14.294	14.356	VV	4174	138115	4.08%	0.106%
232	14.369	14.356	14.424	VV	3800	137449	4.06%	0.106%
233	14.453	14.424	14.521	VV	3823	191834	5.67%	0.148%
234	14.528	14.521	14.550	VV	3076	50058	1.48%	0.039%
235	14.562	14.550	14.580	VV	2822	50282	1.49%	0.039%
236	14.595	14.580	14.611	VV	3113	51995	1.54%	0.040%
237	14.638	14.611	14.659	VV	3141	80343	2.37%	0.062%
238	14.670	14.659	14.758	VV	2528	128332	3.79%	0.099%
239	14.786	14.758	14.916	VV	11147	305530	9.03%	0.235%
240	14.926	14.916	14.954	VV	1729	36266	1.07%	0.028%
241	14.982	14.954	15.017	VV	2007	63274	1.87%	0.049%
242	15.031	15.017	15.084	VV	1675	60413	1.79%	0.046%
243	15.121	15.084	15.145	VV	1586	50124	1.48%	0.039%
244	15.169	15.145	15.190	VV	1496	34806	1.03%	0.027%
245	15.211	15.190	15.276	VV	1374	55055	1.63%	0.042%
246	15.305	15.276	15.384	VV	5415	122377	3.62%	0.094%

247	15.390	15.384	15.460	VV	865	30707	0.91%	0.024%
248	15.492	15.460	15.551	VV	812	36751	1.09%	0.028%
249	15.567	15.551	15.587	VV	628	12579	0.37%	0.010%
250	15.596	15.587	15.601	VV	666	5078	0.15%	0.004%
251	15.620	15.601	15.727	VV	803	41971	1.24%	0.032%
252	15.739	15.727	15.758	VV	421	7079	0.21%	0.005%
253	15.805	15.758	15.838	VV	2919	52203	1.54%	0.040%
254	15.847	15.838	15.888	VV	500	10263	0.30%	0.008%
255	15.903	15.888	15.918	VV	312	4521	0.13%	0.003%
256	15.985	15.918	16.016	VV	514	18824	0.56%	0.014%
257	16.030	16.016	16.068	VV	241	5646	0.17%	0.004%
258	16.109	16.068	16.148	VV	284	10470	0.31%	0.008%
259	16.167	16.148	16.217	VV	332	7588	0.22%	0.006%
260	16.236	16.217	16.259	VV	147	2910	0.09%	0.002%
261	16.288	16.259	16.359	VV	1849	30259	0.89%	0.023%
262	16.373	16.359	16.437	VV	218	4220	0.12%	0.003%
263	16.458	16.437	16.485	VV	152	2972	0.09%	0.002%
264	16.491	16.485	16.554	VV	150	2760	0.08%	0.002%
265	16.627	16.554	16.678	VV	214	7379	0.22%	0.006%
266	16.718	16.678	16.728	VV	237	4665	0.14%	0.004%
267	16.755	16.728	16.798	VV	1433	23851	0.71%	0.018%
268	16.808	16.798	16.896	VV	116	3544	0.10%	0.003%
269	16.907	16.896	16.918	PV	111	1190	0.04%	0.001%
270	16.937	16.918	16.950	VV	142	1722	0.05%	0.001%
271	16.979	16.950	16.999	VV	167	2702	0.08%	0.002%
272	17.045	16.999	17.074	PV	189	5536	0.16%	0.004%
273	17.081	17.074	17.099	VV	138	1608	0.05%	0.001%
274	17.112	17.099	17.154	VV	126	2454	0.07%	0.002%
275	17.204	17.154	17.263	VV	2760	41930	1.24%	0.032%
276	17.312	17.263	17.344	PV	245	6585	0.19%	0.005%
277	17.382	17.344	17.391	VV	222	3699	0.11%	0.003%
278	17.402	17.391	17.418	VV	198	2466	0.07%	0.002%
279	17.432	17.418	17.443	VV	151	1691	0.05%	0.001%
280	17.476	17.443	17.488	VV	242	3655	0.11%	0.003%
281	17.499	17.488	17.509	VV	199	1588	0.05%	0.001%
282	17.529	17.509	17.570	VV	214	5508	0.16%	0.004%
283	17.579	17.570	17.591	VV	262	2196	0.06%	0.002%
284	17.640	17.591	17.670	VV	1574	29802	0.88%	0.023%
285	17.710	17.670	17.725	VV	316	8915	0.26%	0.007%
286	17.778	17.725	17.828	VV	450	20021	0.59%	0.015%
287	17.833	17.828	17.871	VV	363	7512	0.22%	0.006%
288	17.884	17.871	17.896	VV	310	4174	0.12%	0.003%
289	17.919	17.896	17.951	VV	550	12105	0.36%	0.009%
290	17.957	17.951	17.998	VV	365	7823	0.23%	0.006%
291	18.061	17.998	18.123	VV	4459	77313	2.29%	0.059%
292	18.140	18.123	18.174	VV	191	3772	0.11%	0.003%
293	18.222	18.174	18.231	PV	242	3691	0.11%	0.003%
294	18.323	18.231	18.348	VV	489	21051	0.62%	0.016%
295	18.361	18.348	18.425	VV	356	10170	0.30%	0.008%
296	18.470	18.425	18.551	VV	1395	27415	0.81%	0.021%
297	18.774	18.551	18.795	PV	615	36957	1.09%	0.028%
298	18.867	18.795	18.931	VV	2601	70309	2.08%	0.054%
299	18.939	18.931	18.945	VV	371	2903	0.09%	0.002%

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300	18.959	18.945	18.984	VV	442	8979	0.27%	0.007%
301	18.990	18.984	19.008	VV	321	4462	0.13%	0.003%
302	19.042	19.008	19.074	VV	398	12257	0.36%	0.009%
303	19.082	19.074	19.088	VV	201	1626	0.05%	0.001%
304	19.253	19.088	19.296	VV	1526	58691	1.73%	0.045%
305	19.372	19.296	19.398	VV	402	21265	0.63%	0.016%
306	19.480	19.398	19.514	VV	403	21530	0.64%	0.017%
307	19.564	19.514	19.594	VV	544	19028	0.56%	0.015%
308	19.628	19.594	19.654	VV	1282	26284	0.78%	0.020%
309	19.903	19.654	19.933	VV	1364	164294	4.86%	0.126%
310	19.945	19.933	19.954	VV	1197	14840	0.44%	0.011%
311	19.994	19.954	20.018	VV	2012	59551	1.76%	0.046%
312	20.049	20.018	20.071	VV	1819	52361	1.55%	0.040%
313	20.103	20.071	20.113	VV	1605	39638	1.17%	0.031%
314	20.346	20.113	20.414	VV	2648	373225	11.03%	0.287%
315	20.516	20.414	20.545	VV	2664	181566	5.37%	0.140%
316	20.656	20.545	20.664	VV	2624	173094	5.12%	0.133%
317	20.710	20.664	20.751	VV	2928	138240	4.09%	0.106%
318	20.786	20.751	20.944	VV	2616	265170	7.84%	0.204%
319	21.055	20.944	21.085	VV	2110	165867	4.90%	0.128%
320	21.125	21.085	21.154	VV	1988	77895	2.30%	0.060%
321	21.241	21.154	21.304	VV	1948	162325	4.80%	0.125%
322	21.313	21.304	21.344	VV	1558	35021	1.04%	0.027%
323	21.378	21.344	21.406	VV	1527	52433	1.55%	0.040%
324	21.418	21.406	21.441	VV	1404	28411	0.84%	0.022%
325	21.512	21.441	21.538	VV	1430	79127	2.34%	0.061%
326	21.553	21.538	21.560	VV	1380	17644	0.52%	0.014%
327	21.593	21.560	21.620	VV	1532	49799	1.47%	0.038%
328	21.673	21.620	21.731	VV	1307	76090	2.25%	0.059%
329	21.744	21.731	21.798	VV	936	31425	0.93%	0.024%
330	21.831	21.798	21.864	VV	711	24777	0.73%	0.019%
331	21.881	21.864	21.937	VV	567	20277	0.60%	0.016%
332	21.965	21.937	21.998	VV	345	9549	0.28%	0.007%
333	22.014	21.998	22.035	VV	180	2839	0.08%	0.002%
334	22.042	22.035	22.068	VV	106	986	0.03%	0.001%

Sum of corrected areas: 129952688

Aliphatic EPH 102324.M Tue Oct 29 05:11:03 2024

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

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	10/21/24
Project:	NJ Soil PT	Date Received:	10/23/24
Client Sample ID:	PT-NJEPH-SOILDL3	SDG No.:	P4495
Lab Sample ID:	P4495-16DL3	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	100
Sample Wt/Vol:	20.27 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FC067538.D	25	10/25/24	10/28/24	PB164396

CAS Number	Parameter		Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
Aliphatic C9-C12	Aliphatic C9-C12		199		14.1	37.0	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16		429		8.88	24.7	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21		370		11.1	37.0	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28		55.0		29.6	49.3	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40		66.6	U	66.6	74.0	mg/kg
SURROGATES							
3383-33-2	1-chlorooctadecane (SURR)		1.82		40 - 140	91%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)		0.00		40 - 140	0%	SPK: 50

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

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	P4495-16DL3	Acq On:	28 Oct 2024 12:03
Client Sample ID:	PT-NJEPH-SOILDL3	Operator:	YP/AJ
Data file:	FC067538.D	Misc:	
Instrument:	FID_C	ALS Vial:	14
Dilution Factor:	25	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.173	6.453	10951153	80.838	300	ug/ml
Aliphatic C12-C16	6.454	9.842	22931374	174.142	200	ug/ml
Aliphatic C16-C21	9.843	13.200	19110771	150.2	300	ug/ml
Aliphatic C21-C28	13.201	16.853	2677131	22.293	400	ug/ml
Aliphatic C28-C40	16.854	21.695	612933	6.063	600	ug/ml
Aliphatic EPH	3.173	21.695	56283362	433.537		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	12.931	12.931	196940	1.82		ug/ml
Aliphatic C9-C28	3.173	16.853	55670429	427.473	1200	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC102824AL\
Data File : FC067538.D
Signal(s) : FID1A.ch
Acq On : 28 Oct 2024 12:03
Operator : YP/AJ
Sample : P4495-16DL3 25X
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
PT-NJEPH-SOILDL3

Integration File: sample.E
Quant Time: Oct 29 00:05:02 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 18:12:58 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			
12) S 1-chlorooctadecane (S...	12.931	196940	1.824 ug/ml
Spiked Amount 50.000		Recovery =	3.65%
Target Compounds			

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

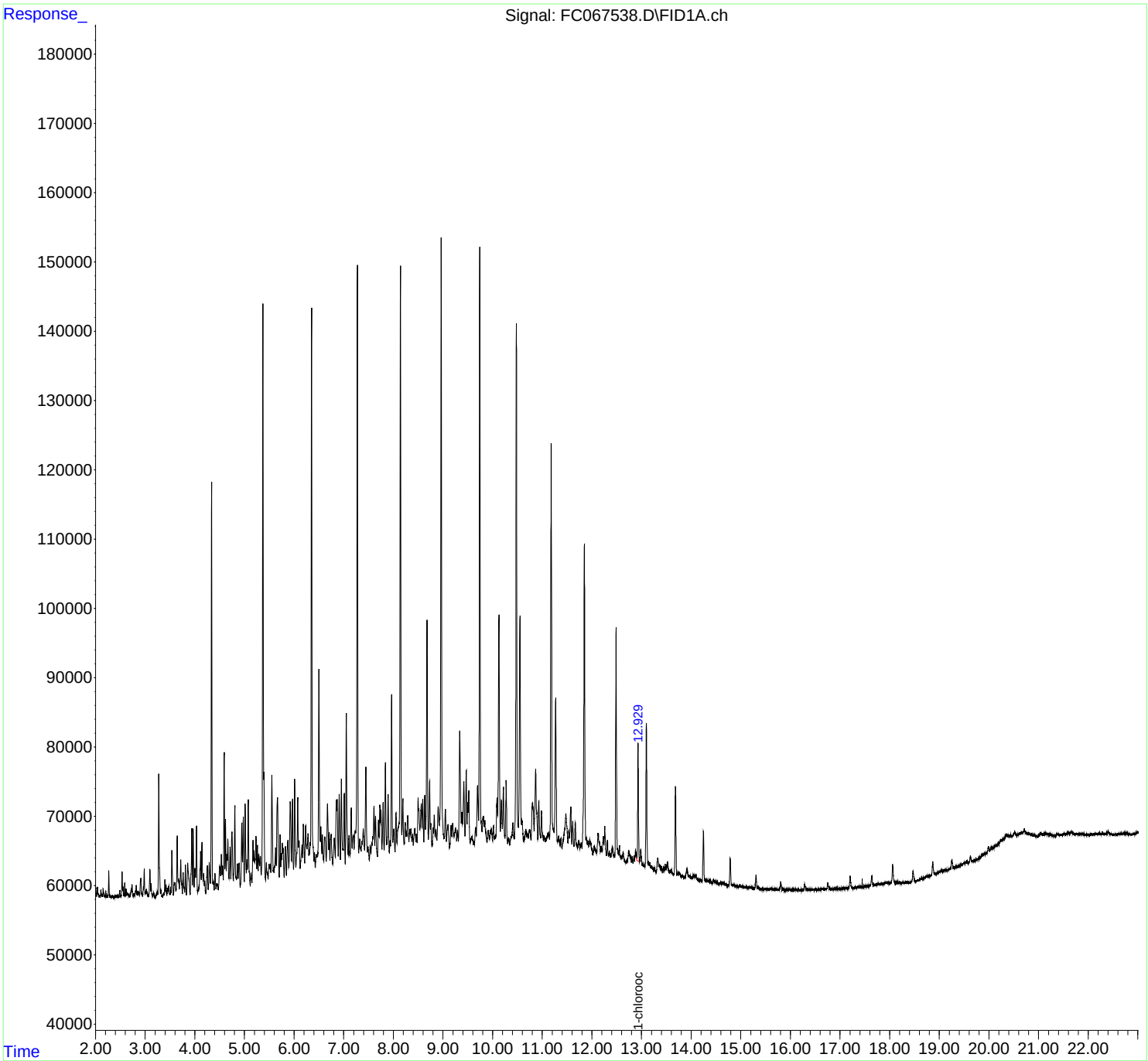
Quantitation Report (QT Reviewed)

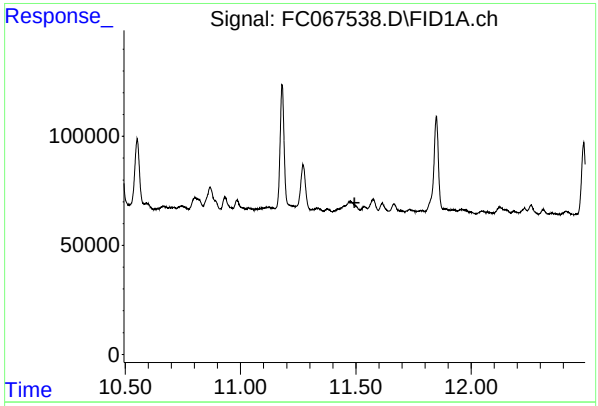
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC102824AL\
Data File : FC067538.D
Signal(s) : FID1A.ch
Acq On : 28 Oct 2024 12:03
Operator : YP/AJ
Sample : P4495-16DL3 25X
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
PT-NJEPH-SOILDL3

Integration File: sample.E
Quant Time: Oct 29 00:05:02 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 18:12:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

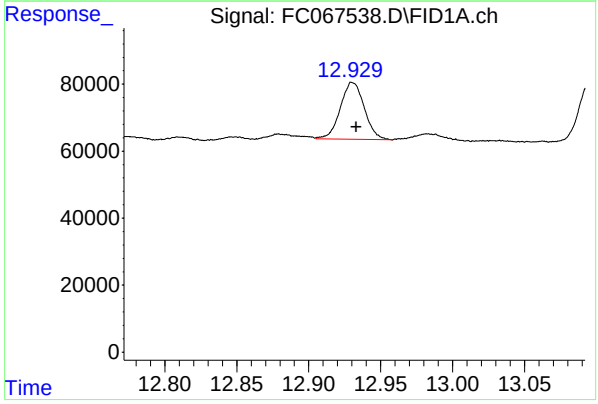




#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.494 min
Response: 0
Conc: N.D.

Instrument :
FID_C
ClientSampleId :
PT-NJEPH-SOILDL3



#12 1-chlorooctadecane (SURR)

R.T.: 12.931 min
Delta R.T.: -0.002 min
Response: 196940
Conc: 1.82 ug/ml

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC102824AL\
Data File : FC067538.D
Signal(s) : FID1A.ch
Acq On : 28 Oct 2024 12:03
Sample : P4495-16DL3 25X
Misc :
ALS Vial : 14 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 102324.M
Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.274	3.171	3.308	BV	17360	186068	12.48%	0.329%
2	3.318	3.308	3.352	VV	845	8801	0.59%	0.016%
3	3.372	3.352	3.380	PV	481	4049	0.27%	0.007%
4	3.397	3.380	3.410	VV	2333	22557	1.51%	0.040%
5	3.421	3.410	3.437	VV	1593	16284	1.09%	0.029%
6	3.452	3.437	3.460	VV	1135	10796	0.72%	0.019%
7	3.475	3.460	3.501	VV	1472	21453	1.44%	0.038%
8	3.512	3.501	3.520	VV	1305	10173	0.68%	0.018%
9	3.538	3.520	3.569	VV	6642	80939	5.43%	0.143%
10	3.600	3.569	3.618	VV	2006	40929	2.74%	0.072%
11	3.645	3.618	3.665	VV	8749	102877	6.90%	0.182%
12	3.673	3.665	3.688	VV	2479	28101	1.88%	0.050%
13	3.717	3.688	3.750	VV	5231	87642	5.88%	0.155%
14	3.765	3.750	3.794	VV	3409	45293	3.04%	0.080%
15	3.811	3.794	3.830	VV	4501	43082	2.89%	0.076%
16	3.858	3.830	3.903	VV	4719	104678	7.02%	0.185%
17	3.939	3.903	3.953	VV	9708	119213	7.99%	0.211%
18	3.967	3.953	3.986	VV	9645	100149	6.72%	0.177%
19	4.002	3.986	4.015	VV	3947	50248	3.37%	0.089%
20	4.034	4.015	4.058	VV	10222	115955	7.78%	0.205%
21	4.117	4.058	4.129	VV	6398	113355	7.60%	0.200%
22	4.144	4.129	4.168	VV	7755	104557	7.01%	0.185%
23	4.178	4.168	4.192	VV	3219	36403	2.44%	0.064%
24	4.200	4.192	4.220	VV	2217	22378	1.50%	0.040%
25	4.251	4.220	4.270	VV	4367	66875	4.48%	0.118%
26	4.292	4.270	4.313	VV	4749	75250	5.05%	0.133%
27	4.338	4.313	4.390	VV	59665	609937	40.90%	1.077%
28	4.407	4.390	4.428	VV	3189	45735	3.07%	0.081%
29	4.453	4.428	4.469	VV	1725	36362	2.44%	0.064%
30	4.502	4.469	4.519	VV	4274	84144	5.64%	0.149%
31	4.535	4.519	4.550	VV	5975	81005	5.43%	0.143%
32	4.560	4.550	4.573	VV	4280	49405	3.31%	0.087%
33	4.591	4.573	4.606	VV	20758	210407	14.11%	0.372%
34	4.618	4.606	4.633	VV	10981	113437	7.61%	0.200%
35	4.667	4.633	4.687	VV	8215	171963	11.53%	0.304%
36	4.711	4.687	4.726	VV	7017	101872	6.83%	0.180%

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37	4.748	4.726	4.775	VV	9126	173054	11.60%	0.306%
38	4.807	4.775	4.839	VV	12911	200778	13.46%	0.355%
39	4.858	4.839	4.873	VV	4576	70672	4.74%	0.125%
40	4.892	4.873	4.915	VV	4689	83938	5.63%	0.148%
41	4.946	4.915	4.961	VV	10280	137586	9.23%	0.243%
42	4.977	4.961	4.997	VV	11279	145544	9.76%	0.257%
43	5.015	4.997	5.039	VV	13125	171314	11.49%	0.303%
44	5.052	5.039	5.060	VV	5237	54867	3.68%	0.097%
45	5.077	5.060	5.116	VV	13696	202642	13.59%	0.358%
46	5.131	5.116	5.151	VV	3257	52392	3.51%	0.093%
47	5.173	5.151	5.185	VV	7996	105601	7.08%	0.187%
48	5.194	5.185	5.206	VV	6439	73596	4.93%	0.130%
49	5.234	5.206	5.249	VV	8529	155251	10.41%	0.274%
50	5.262	5.249	5.276	VV	7256	91073	6.11%	0.161%
51	5.290	5.276	5.307	VV	5987	93782	6.29%	0.166%
52	5.321	5.307	5.338	VV	5591	84277	5.65%	0.149%
53	5.372	5.338	5.424	VV	85300	1098039	73.63%	1.939%
54	5.442	5.424	5.476	VV	4705	106702	7.15%	0.188%
55	5.496	5.476	5.509	VV	4514	74399	4.99%	0.131%
56	5.520	5.509	5.532	VV	4353	53741	3.60%	0.095%
57	5.553	5.532	5.595	VV	16957	298761	20.03%	0.528%
58	5.628	5.595	5.640	VV	6810	134608	9.03%	0.238%
59	5.666	5.640	5.701	VV	13850	308373	20.68%	0.545%
60	5.718	5.701	5.732	VV	8720	107258	7.19%	0.189%
61	5.743	5.732	5.750	VV	6046	57098	3.83%	0.101%
62	5.763	5.750	5.800	VV	7555	175643	11.78%	0.310%
63	5.825	5.800	5.845	VV	6977	132688	8.90%	0.234%
64	5.874	5.845	5.894	VV	7837	169192	11.35%	0.299%
65	5.924	5.894	5.948	VV	13344	279290	18.73%	0.493%
66	5.969	5.948	5.990	VV	13872	206801	13.87%	0.365%
67	6.013	5.990	6.037	VV	16741	246094	16.50%	0.435%
68	6.074	6.037	6.123	VV	14096	382204	25.63%	0.675%
69	6.160	6.123	6.172	VV	7185	166003	11.13%	0.293%
70	6.188	6.172	6.214	VV	10223	184500	12.37%	0.326%
71	6.233	6.214	6.260	VV	9866	209367	14.04%	0.370%
72	6.282	6.260	6.299	VV	8879	176819	11.86%	0.312%
73	6.353	6.299	6.401	VV	84119	1165639	78.16%	2.059%
74	6.412	6.401	6.428	VV	6186	84550	5.67%	0.149%
75	6.447	6.428	6.464	VV	5718	114645	7.69%	0.202%
76	6.501	6.464	6.529	VV	32364	522785	35.05%	0.923%
77	6.540	6.529	6.559	VV	9824	151255	10.14%	0.267%
78	6.571	6.559	6.597	VV	8629	146011	9.79%	0.258%
79	6.619	6.597	6.648	VV	8328	212865	14.27%	0.376%
80	6.674	6.648	6.698	VV	13070	269568	18.08%	0.476%
81	6.708	6.698	6.723	VV	8934	109350	7.33%	0.193%
82	6.747	6.723	6.778	VV	8793	224763	15.07%	0.397%
83	6.810	6.778	6.830	VV	7997	201163	13.49%	0.355%
84	6.852	6.830	6.890	VV	13565	374989	25.14%	0.662%
85	6.910	6.890	6.933	VV	14468	240409	16.12%	0.425%
86	6.954	6.933	6.990	VV	16666	320558	21.49%	0.566%
87	7.011	6.990	7.031	VV	14616	225773	15.14%	0.399%
88	7.053	7.031	7.090	VV	26057	429914	28.83%	0.759%
89	7.107	7.090	7.127	VV	8528	153347	10.28%	0.271%

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90	7.153	7.127	7.171	VV	12390	226217	15.17%	0.400%
91	7.194	7.171	7.211	VV	8434	186826	12.53%	0.330%
92	7.275	7.211	7.303	VV	90323	1288673	86.41%	2.276%
93	7.323	7.303	7.350	VV	7862	198362	13.30%	0.350%
94	7.395	7.350	7.420	VV	9440	326742	21.91%	0.577%
95	7.447	7.420	7.478	VV	18376	373921	25.07%	0.660%
96	7.491	7.478	7.516	VV	6800	141975	9.52%	0.251%
97	7.535	7.516	7.549	VV	7062	119931	8.04%	0.212%
98	7.611	7.549	7.627	VV	12742	396693	26.60%	0.701%
99	7.642	7.627	7.680	VV	11308	259417	17.40%	0.458%
100	7.701	7.680	7.713	VV	10685	165975	11.13%	0.293%
101	7.729	7.713	7.742	VV	12958	195369	13.10%	0.345%
102	7.751	7.742	7.770	VV	12116	165899	11.12%	0.293%
103	7.795	7.770	7.816	VV	13281	251912	16.89%	0.445%
104	7.841	7.816	7.866	VV	18942	346492	23.23%	0.612%
105	7.896	7.866	7.919	VV	14354	301045	20.19%	0.532%
106	7.935	7.919	7.944	VV	7699	103876	6.97%	0.183%
107	7.965	7.944	7.991	VV	28557	428470	28.73%	0.757%
108	8.013	7.991	8.034	VV	9377	209287	14.03%	0.370%
109	8.054	8.034	8.074	VV	11617	215828	14.47%	0.381%
110	8.144	8.074	8.171	VV	90066	1397145	93.68%	2.467%
111	8.192	8.171	8.218	VV	13661	283577	19.02%	0.501%
112	8.239	8.218	8.271	VV	10253	278545	18.68%	0.492%
113	8.292	8.271	8.315	VV	11255	259063	17.37%	0.458%
114	8.334	8.315	8.345	VV	9219	154904	10.39%	0.274%
115	8.355	8.345	8.375	VV	9308	156558	10.50%	0.276%
116	8.389	8.375	8.405	VV	8630	140874	9.45%	0.249%
117	8.433	8.405	8.457	VV	9352	266136	17.85%	0.470%
118	8.470	8.457	8.481	VV	8637	116736	7.83%	0.206%
119	8.500	8.481	8.535	VV	13627	358592	24.05%	0.633%
120	8.562	8.535	8.578	VV	12926	286650	19.22%	0.506%
121	8.593	8.578	8.615	VV	13611	244979	16.43%	0.433%
122	8.634	8.615	8.651	VV	14229	238163	15.97%	0.421%
123	8.680	8.651	8.707	VV	38996	649488	43.55%	1.147%
124	8.731	8.707	8.780	VV	16282	453376	30.40%	0.801%
125	8.826	8.780	8.844	VV	11361	347813	23.32%	0.614%
126	8.858	8.844	8.877	VV	9333	173574	11.64%	0.307%
127	8.906	8.877	8.926	VV	12537	306268	20.54%	0.541%
128	8.965	8.926	9.023	VV	94355	1491331	100.00%	2.634%
129	9.049	9.023	9.072	VV	12121	279721	18.76%	0.494%
130	9.103	9.072	9.138	VV	9942	340171	22.81%	0.601%
131	9.164	9.138	9.177	VV	9754	195103	13.08%	0.345%
132	9.194	9.177	9.216	VV	10071	220967	14.82%	0.390%
133	9.225	9.216	9.231	VV	8560	77230	5.18%	0.136%
134	9.248	9.231	9.278	VV	9455	249287	16.72%	0.440%
135	9.294	9.278	9.310	VV	9106	162946	10.93%	0.288%
136	9.339	9.310	9.370	VV	23352	533550	35.78%	0.942%
137	9.382	9.370	9.396	VV	11805	172108	11.54%	0.304%
138	9.422	9.396	9.445	VV	16159	361844	24.26%	0.639%
139	9.469	9.445	9.487	VV	17797	320986	21.52%	0.567%
140	9.521	9.487	9.547	VV	14795	409729	27.47%	0.724%
141	9.579	9.547	9.613	VV	8130	311175	20.87%	0.550%

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142	9.624	9.613	9.635	VV	7506	95807	6.42%	0.169%
143	9.658	9.635	9.672	VV	9396	187626	12.58%	0.331%
144	9.697	9.672	9.717	VV	15484	333810	22.38%	0.590%
145	9.742	9.717	9.786	VV	93063	1298368	87.06%	2.293%
146	9.813	9.786	9.833	VV	11079	291514	19.55%	0.515%
147	9.843	9.833	9.886	VV	10552	287977	19.31%	0.509%
148	9.915	9.886	9.934	VV	8970	240877	16.15%	0.425%
149	9.975	9.934	9.997	VV	9030	328054	22.00%	0.579%
150	10.017	9.997	10.050	VV	9637	269930	18.10%	0.477%
151	10.088	10.050	10.101	VV	13575	315146	21.13%	0.557%
152	10.128	10.101	10.158	VV	39867	745127	49.96%	1.316%
153	10.178	10.158	10.198	VV	13311	269895	18.10%	0.477%
154	10.218	10.198	10.247	VV	15163	327700	21.97%	0.579%
155	10.274	10.247	10.301	VV	16027	351659	23.58%	0.621%
156	10.322	10.301	10.344	VV	7867	195520	13.11%	0.345%
157	10.409	10.344	10.435	VV	10160	457404	30.67%	0.808%
158	10.479	10.435	10.517	VV	82528	1312784	88.03%	2.318%
159	10.552	10.517	10.633	VV	39728	1061765	71.20%	1.875%
160	10.666	10.633	10.687	VV	9077	272810	18.29%	0.482%
161	10.702	10.687	10.722	VV	8488	176297	11.82%	0.311%
162	10.743	10.722	10.774	VV	9157	268056	17.97%	0.473%
163	10.803	10.774	10.837	VV	12947	415557	27.86%	0.734%
164	10.868	10.837	10.911	VV	17840	550975	36.95%	0.973%
165	10.932	10.911	10.967	VV	13271	330803	22.18%	0.584%
166	10.985	10.967	11.024	VV	11704	315223	21.14%	0.557%
167	11.034	11.024	11.062	VV	8188	181956	12.20%	0.321%
168	11.120	11.062	11.151	VV	8504	432124	28.98%	0.763%
169	11.180	11.151	11.237	VV	64922	1110923	74.49%	1.962%
170	11.271	11.237	11.313	VV	27965	646203	43.33%	1.141%
171	11.334	11.313	11.361	VV	8114	216984	14.55%	0.383%
172	11.376	11.361	11.398	VV	7811	159347	10.68%	0.281%
173	11.476	11.398	11.518	VV	11337	632158	42.39%	1.116%
174	11.536	11.518	11.550	VV	8836	157676	10.57%	0.278%
175	11.575	11.550	11.597	VV	12286	272202	18.25%	0.481%
176	11.614	11.597	11.643	VV	10270	228891	15.35%	0.404%
177	11.665	11.643	11.711	VV	9988	314625	21.10%	0.556%
178	11.733	11.711	11.762	VV	7493	213338	14.31%	0.377%
179	11.788	11.762	11.800	VV	7074	154446	10.36%	0.273%
180	11.849	11.800	11.911	VV	49927	1071613	71.86%	1.893%
181	11.920	11.911	11.941	VV	7360	127952	8.58%	0.226%
182	11.958	11.941	12.021	VV	7516	318749	21.37%	0.563%
183	12.048	12.021	12.091	VV	6658	258580	17.34%	0.457%
184	12.124	12.091	12.172	VV	8328	340871	22.86%	0.602%
185	12.186	12.172	12.205	VV	6536	123346	8.27%	0.218%
186	12.231	12.205	12.243	VV	8057	161106	10.80%	0.285%
187	12.260	12.243	12.292	VV	9574	213908	14.34%	0.378%
188	12.313	12.292	12.338	VV	7358	167299	11.22%	0.295%
189	12.350	12.338	12.385	VV	5776	153974	10.32%	0.272%
190	12.411	12.385	12.447	VV	6612	215227	14.43%	0.380%
191	12.488	12.447	12.533	VV	37918	671727	45.04%	1.186%
192	12.552	12.533	12.618	VV	6151	272867	18.30%	0.482%
193	12.632	12.618	12.691	VV	5656	208843	14.00%	0.369%
194	12.741	12.691	12.795	VV	6035	311628	20.90%	0.550%

195	12.811	12.795	12.829	VV	5103	94958	6.37%	0.168%
196	12.849	12.829	12.862	VV	5145	93855	6.29%	0.166%
197	12.880	12.862	12.905	VV	5936	139563	9.36%	0.246%
198	12.931	12.905	12.958	VV	21399	339093	22.74%	0.599%
199	12.983	12.958	13.015	VV	6041	168687	11.31%	0.298%
200	13.030	13.015	13.067	VV	4039	122920	8.24%	0.217%
201	13.098	13.067	13.158	VV	24266	462629	31.02%	0.817%
202	13.168	13.158	13.191	VV	4211	78308	5.25%	0.138%
203	13.200	13.191	13.249	VV	3697	117729	7.89%	0.208%
204	13.263	13.249	13.292	VV	3459	82610	5.54%	0.146%
205	13.329	13.292	13.365	VV	4863	170993	11.47%	0.302%
206	13.375	13.365	13.393	VV	3835	59424	3.98%	0.105%
207	13.405	13.393	13.427	VV	3506	67631	4.53%	0.119%
208	13.446	13.427	13.459	VV	3583	62672	4.20%	0.111%
209	13.477	13.459	13.498	VV	3919	80981	5.43%	0.143%
210	13.519	13.498	13.557	VV	4201	125215	8.40%	0.221%
211	13.595	13.557	13.645	VV	3121	147153	9.87%	0.260%
212	13.683	13.645	13.721	VV	15014	278820	18.70%	0.492%
213	13.740	13.721	13.754	VV	2839	51544	3.46%	0.091%
214	13.769	13.754	13.825	VV	2644	101179	6.78%	0.179%
215	13.834	13.825	13.872	VV	2237	59610	4.00%	0.105%
216	13.914	13.872	13.968	VV	3154	144750	9.71%	0.256%
217	13.980	13.968	14.001	VV	2253	42655	2.86%	0.075%
218	14.013	14.001	14.028	VV	2079	31600	2.12%	0.056%
219	14.045	14.028	14.085	VV	2328	73586	4.93%	0.130%
220	14.098	14.085	14.135	VV	2433	59690	4.00%	0.105%
221	14.150	14.135	14.170	VV	1750	35012	2.35%	0.062%
222	14.184	14.170	14.213	VV	1720	41361	2.77%	0.073%
223	14.246	14.213	14.281	VV	8675	151575	10.16%	0.268%
224	14.317	14.281	14.349	VV	1683	63349	4.25%	0.112%
225	14.370	14.349	14.431	VV	1585	68079	4.57%	0.120%
226	14.456	14.431	14.482	VV	1587	43619	2.92%	0.077%
227	14.489	14.482	14.510	VV	1394	21992	1.47%	0.039%
228	14.523	14.510	14.577	VV	1315	47169	3.16%	0.083%
229	14.594	14.577	14.612	VV	1313	24464	1.64%	0.043%
230	14.638	14.612	14.721	VV	1299	68133	4.57%	0.120%
231	14.739	14.721	14.753	VV	892	16577	1.11%	0.029%
232	14.785	14.753	14.835	VV	4683	91680	6.15%	0.162%
233	14.853	14.835	14.885	VV	883	24484	1.64%	0.043%
234	14.894	14.885	14.908	VV	778	10020	0.67%	0.018%
235	14.921	14.908	14.961	VV	780	21002	1.41%	0.037%
236	14.979	14.961	15.015	VV	844	22267	1.49%	0.039%
237	15.028	15.015	15.105	VV	727	31924	2.14%	0.056%
238	15.115	15.105	15.148	VV	666	14346	0.96%	0.025%
239	15.174	15.148	15.188	VV	548	12328	0.83%	0.022%
240	15.209	15.188	15.261	VV	592	19504	1.31%	0.034%
241	15.305	15.261	15.405	VV	2324	56841	3.81%	0.100%
242	15.425	15.405	15.451	VV	284	6640	0.45%	0.012%
243	15.492	15.451	15.515	VV	354	10022	0.67%	0.018%
244	15.523	15.515	15.548	VV	302	4975	0.33%	0.009%
245	15.561	15.548	15.591	VV	274	5845	0.39%	0.010%
246	15.621	15.591	15.648	VV	335	8920	0.60%	0.016%

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247	15.680	15.648	15.749	VV	258	11046	0.74%	0.020%
248	15.803	15.749	15.834	VV	1168	21593	1.45%	0.038%
249	15.848	15.834	15.878	VV	242	4036	0.27%	0.007%
250	15.889	15.878	15.922	PV	135	2496	0.17%	0.004%
251	15.932	15.922	15.949	VV	208	2019	0.14%	0.004%
252	15.983	15.949	16.008	VV	193	4486	0.30%	0.008%
253	16.022	16.008	16.041	VV	134	1453	0.10%	0.003%
254	16.113	16.041	16.145	VV	229	6051	0.41%	0.011%
255	16.161	16.145	16.226	VV	203	2795	0.19%	0.005%
256	16.247	16.226	16.260	VV	144	1822	0.12%	0.003%
257	16.286	16.260	16.352	PV	844	16477	1.10%	0.029%
258	16.371	16.352	16.395	VV	168	2866	0.19%	0.005%
259	16.401	16.395	16.415	VV	161	815	0.05%	0.001%
260	16.510	16.415	16.553	VV	152	7261	0.49%	0.013%
261	16.641	16.553	16.680	VV	169	7104	0.48%	0.013%
262	16.753	16.680	16.816	PV	883	20997	1.41%	0.037%
263	16.832	16.816	16.861	PV	69	1573	0.11%	0.003%
264	16.954	16.861	17.011	PV	165	7343	0.49%	0.013%
265	17.203	17.011	17.266	PV	1625	33557	2.25%	0.059%
266	17.306	17.266	17.331	VV	175	3722	0.25%	0.007%
267	17.391	17.331	17.435	PV	160	6621	0.44%	0.012%
268	17.445	17.435	17.471	VV	488	3142	0.21%	0.006%
269	17.496	17.471	17.511	VV	168	2947	0.20%	0.005%
270	17.638	17.511	17.698	VV	1496	39396	2.64%	0.070%
271	17.772	17.698	17.804	VV	322	16230	1.09%	0.029%
272	17.918	17.804	17.993	VV	432	32567	2.18%	0.058%
273	18.061	17.993	18.128	VV	2830	61226	4.11%	0.108%
274	18.137	18.128	18.185	VV	283	7191	0.48%	0.013%
275	18.202	18.185	18.237	VV	178	4459	0.30%	0.008%
276	18.269	18.237	18.295	PV	142	4035	0.27%	0.007%
277	18.319	18.295	18.375	VV	176	5125	0.34%	0.009%
278	18.471	18.375	18.528	PV	1514	27380	1.84%	0.048%
279	18.867	18.528	18.918	PV	2095	70172	4.71%	0.124%
280	19.042	18.918	19.070	VV	557	37270	2.50%	0.066%
281	19.112	19.070	19.131	VV	530	16846	1.13%	0.030%
282	19.252	19.131	19.305	VV	1699	66598	4.47%	0.118%
283	19.555	19.305	19.588	VV	954	113261	7.59%	0.200%
284	19.626	19.588	19.685	VV	1591	53845	3.61%	0.095%
			Sum of corrected areas:			56622450		

Aliphatic EPH 102324.M Tue Oct 29 05:12:17 2024

CALIBRATION SUMMARY

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

Inital Calibration Report for SequenceID : FC102324AL

AreaCount

Parameter Range	FC067506.D	FC067507.D	FC067508.D	FC067509.D	FC067510.D	
Aliphatic C9-C12	39022992.000	19933185.000	8061570.000	4198329.000	2101198.000	
Aliphatic C12-C16	25467967.000	12990634.000	5208245.000	2702045.000	1358541.000	
Aliphatic C16-C21	36713606.000	18782701.000	7526010.000	3934678.000	1979840.000	
Aliphatic C21-C28	45946180.000	23609090.000	9458827.000	4951672.000	2510279.000	
Aliphatic C28-C40	56250650.000	29316600.000	11954663.000	6283522.000	3289360.000	
Aliphatic EPH	203401395.000	104632210.000	42209315.000	22070246.000	11239218.000	

AVG Response Factor

Parameter Range	AVG RF	% RSD				
Aliphatic C9-C12	135469.6413332	3.265				
Aliphatic C12-C16	131681.73	2.772				
Aliphatic C16-C21	127235.0919996	3.261				
Aliphatic C21-C28	120090.3975	3.678				
Aliphatic C28-C40	101093.1949996	6.133				
Aliphatic EPH	118799.912222	4.081				

Concentration

Parameter Range	FC067506.D	FC067507.D	FC067508.D	FC067509.D	FC067510.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	FC067506.D	FC067507.D	FC067508.D	FC067509.D	FC067510.D	
Aliphatic C9-C12	130076.640000	132887.900000	134359.500000	139944.300000	140079.866666	
Aliphatic C12-C16	127339.835000	129906.340000	130206.125000	135102.250000	135854.100000	
Aliphatic C16-C21	122378.686666	125218.006666	125433.500000	131155.933333	131989.333333	

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

Inital Calibration Report for SequenceID : FC102324AL

Aliphatic C21-C28	114865.450000	118045.450000	118235.337500	123791.800000	125513.950000	
Aliphatic C28-C40	93751.083333	97722.000000	99622.191666	104725.366666	109645.333333	
Aliphatic EPH	113000.775000	116258.011111	117248.097222	122612.477777	124880.200000	

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

Lab Sample ID:	100 PPM ALIPHATIC HC	Acq On:	23 Oct 2024 15:12
Client Sample ID:		Operator:	YP/AJ
Data file:	FC067506.D	Misc:	
Instrument:	FID_C	ALS Vial:	11
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aliphatic C9-C12	3.174	6.454	39022992.000	300.000	ug/ml
Aliphatic C12-C16	6.455	9.845	25467967.000	200.000	ug/ml
Aliphatic C16-C21	9.846	13.203	36713606.000	300.000	ug/ml
Aliphatic C21-C28	13.204	16.858	45946180.000	400.000	ug/ml
Aliphatic C28-C40	16.859	21.704	56250650.000	600.000	ug/ml
Aliphatic EPH	3.174		203401395.000	1800.000	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC102324AL\
Data File : FC067506.D
Signal(s) : FID1A.ch
Acq On : 23 Oct 2024 15:12
Operator : YP/AJ
Sample : 100 PPM ALIPHATIC HC STD1
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
100 PPM ALIPHATIC HC STD1

Integration File: autoint1.e
Quant Time: Oct 23 17:19:34 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 17:19:01 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)	11.506	14037783	98.632 ug/ml
Spiked Amount	50.000		Recovery =	197.26%
12) S	1-chlorooctadecane (S...	12.941	10490435	99.221 ug/ml
Spiked Amount	50.000		Recovery =	198.44%
	Target Compounds			
1) T	n-Nonane (C9)	3.278	12920314	98.296 ug/ml
2) T	n-Decane (C10)	4.343	13085907	98.393 ug/ml
3) T	A~Naphthalene (C11.7)	5.922	14394132	98.923 ug/ml
4) T	n-Dodecane (C12)	6.360	13016771	98.452 ug/ml
5) T	A~2-methylnaphthalene...	6.979	13836866	99.334 ug/ml
6) T	n-Tetradecane (C14)	8.152	12659193	98.737 ug/ml
7) T	n-Hexadecane (C16)	9.751	12808774	99.036 ug/ml
8) T	n-Octadecane (C18)	11.193	12738874	98.786 ug/ml
10) T	n-Eicosane (C20)	12.499	12105735	98.678 ug/ml
11) T	n-Heneicosane (C21)	13.110	11868997	98.838 ug/ml
13) T	n-Docosane (C22)	13.695	11751176	98.736 ug/ml
14) T	n-Tetracosane (C24)	14.797	11637443	98.776 ug/ml
15) T	n-Hexacosane (C26)	15.816	11410589	98.652 ug/ml
16) T	n-Octacosane (C28)	16.765	11146972	98.035 ug/ml
17) T	n-Tricontane (C30)	17.651	11224678	97.103 ug/ml
18) T	n-Dotriacontane (C32)	18.483	10806351	96.387 ug/ml
19) T	n-Tetratriacontane (C34)	19.263	9619727	96.453 ug/ml
20) T	n-Hexatriacontane (C36)	20.002	8494635	97.259 ug/ml
21) T	n-Octatriacontane (C38)	20.726	8112623	97.297 ug/ml
22) T	n-Tetracontane (C40)	21.614	7992636	97.524 ug/ml

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

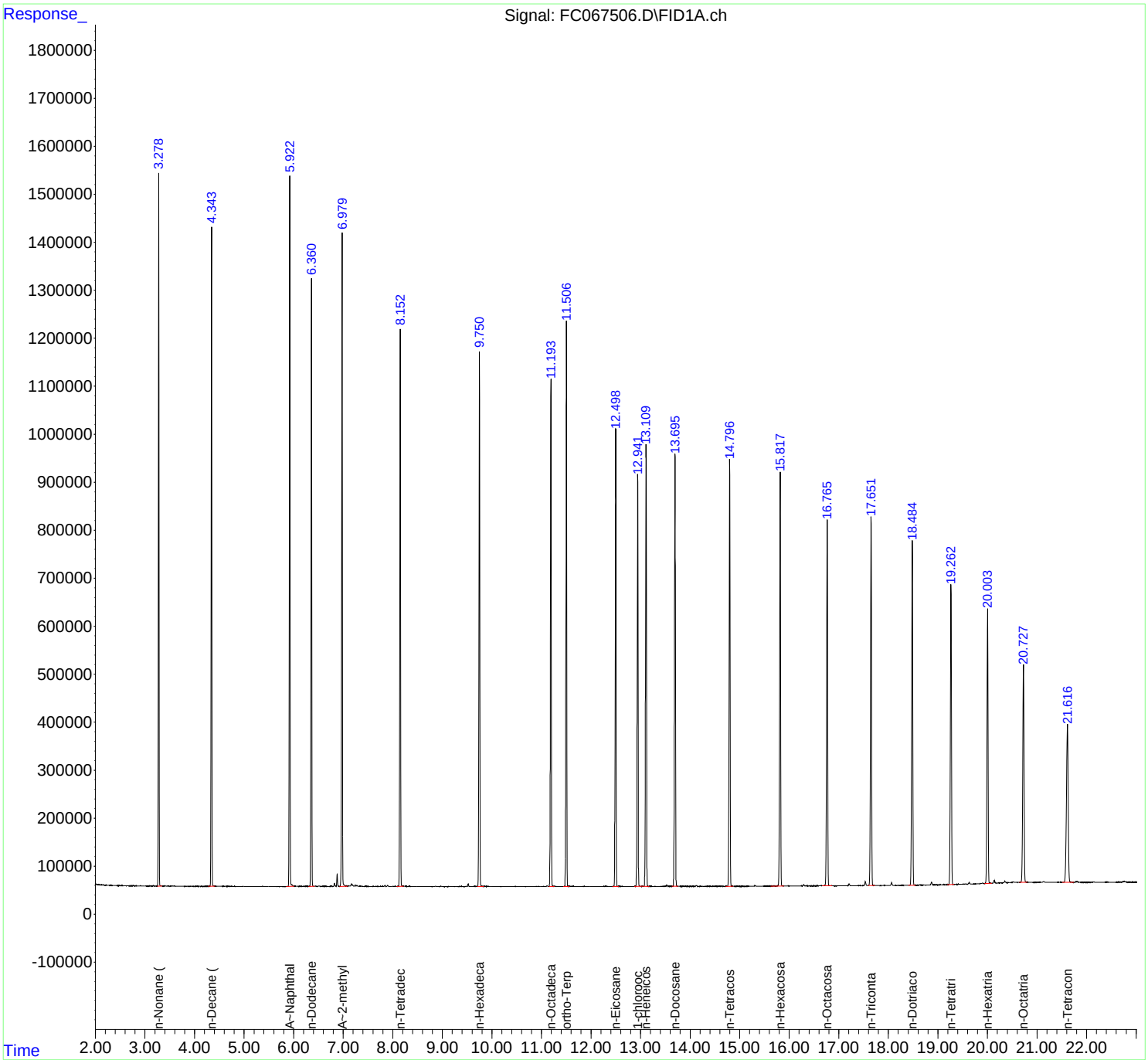
Quantitation Report (QT Reviewed)

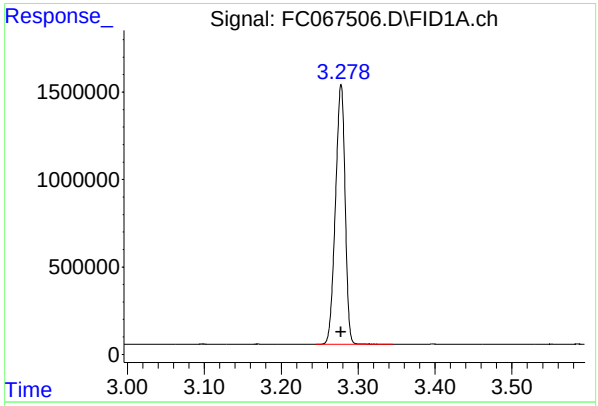
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC102324AL\
Data File : FC067506.D
Signal(s) : FID1A.ch
Acq On : 23 Oct 2024 15:12
Operator : YP/AJ
Sample : 100 PPM ALIPHATIC HC STD1
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
100 PPM ALIPHATIC HC STD1

Integration File: autoint1.e
Quant Time: Oct 23 17:19:34 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 17:19:01 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

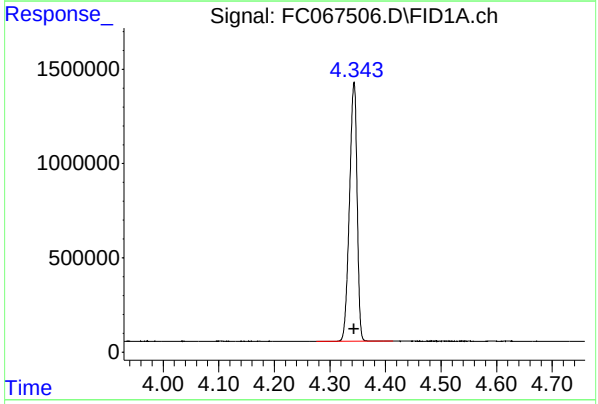




#1 n-Nonane (C9)

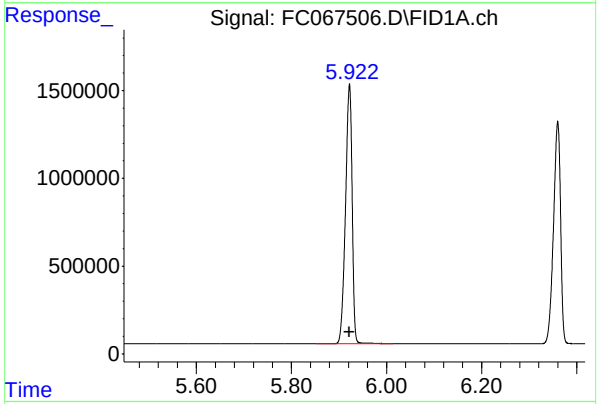
R.T.: 3.278 min
Delta R.T.: 0.000 min
Response: 12920314
Conc: 98.30 ug/ml

Instrument :
FID_C
ClientSampleId :
100 PPM ALIPHATIC HC STD1



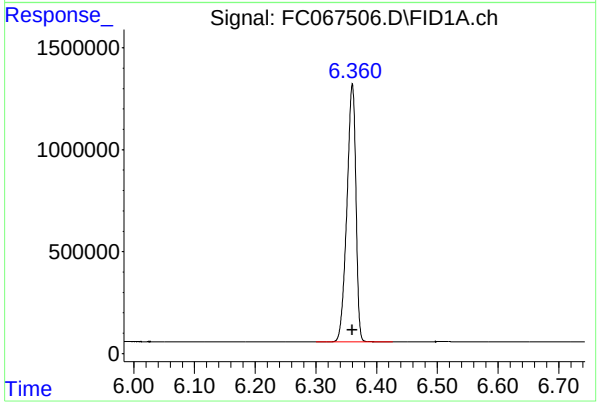
#2 n-Decane (C10)

R.T.: 4.343 min
Delta R.T.: 0.000 min
Response: 13085907
Conc: 98.39 ug/ml



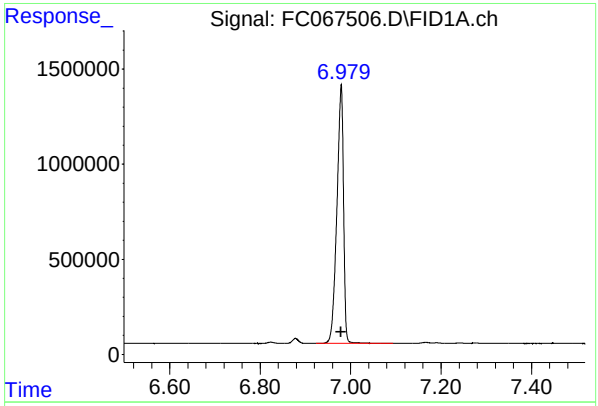
#3 A~Naphthalene (C11.7)

R.T.: 5.922 min
Delta R.T.: 0.000 min
Response: 14394132
Conc: 98.92 ug/ml



#4 n-Dodecane (C12)

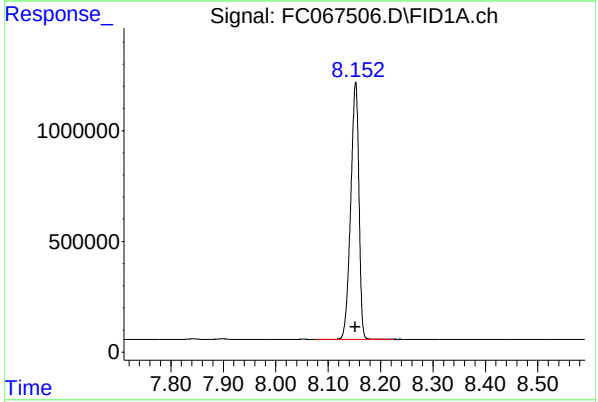
R.T.: 6.360 min
Delta R.T.: 0.000 min
Response: 13016771
Conc: 98.45 ug/ml



#5 A~2-methylnaphthalene (C12.89)

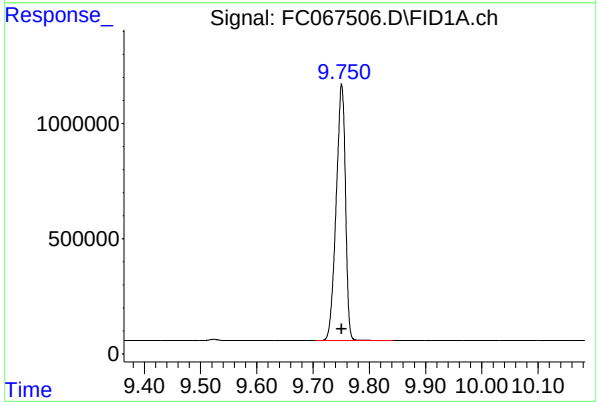
R.T.: 6.979 min
Delta R.T.: 0.000 min
Response: 13836866
Conc: 99.33 ug/ml

Instrument :
FID_C
ClientSampleId :
100 PPM ALIPHATIC HC STD1



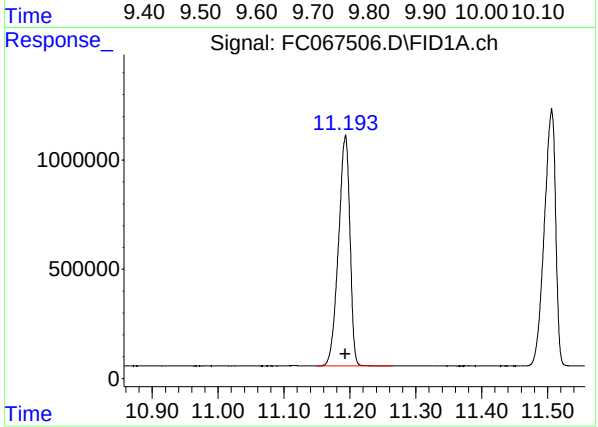
#6 n-Tetradecane (C14)

R.T.: 8.152 min
Delta R.T.: 0.000 min
Response: 12659193
Conc: 98.74 ug/ml



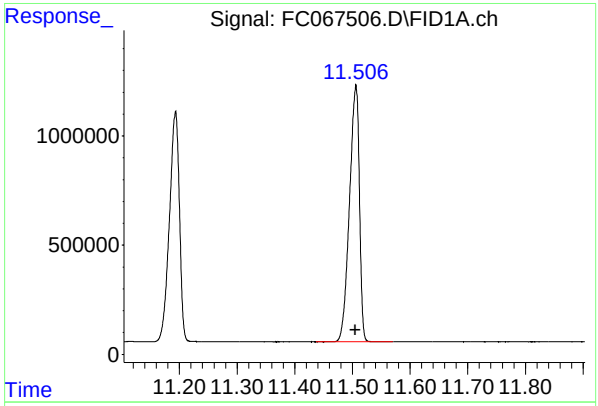
#7 n-Hexadecane (C16)

R.T.: 9.751 min
Delta R.T.: 0.000 min
Response: 12808774
Conc: 99.04 ug/ml



#8 n-Octadecane (C18)

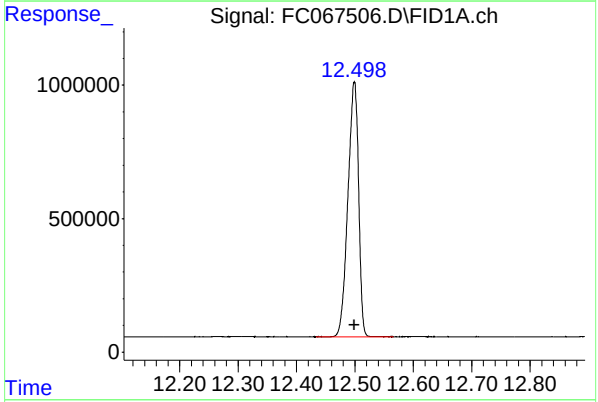
R.T.: 11.193 min
Delta R.T.: 0.000 min
Response: 12738874
Conc: 98.79 ug/ml



#9 ortho-Terphenyl (SURR)

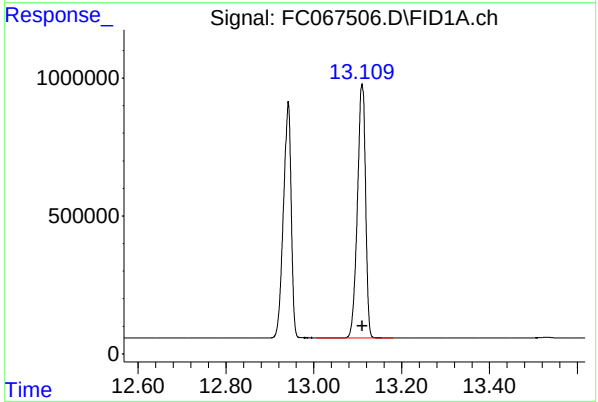
R.T.: 11.506 min
Delta R.T.: 0.000 min
Response: 14037783
Conc: 98.63 ug/ml

Instrument :
FID_C
ClientSampleId :
100 PPM ALIPHATIC HC STD1



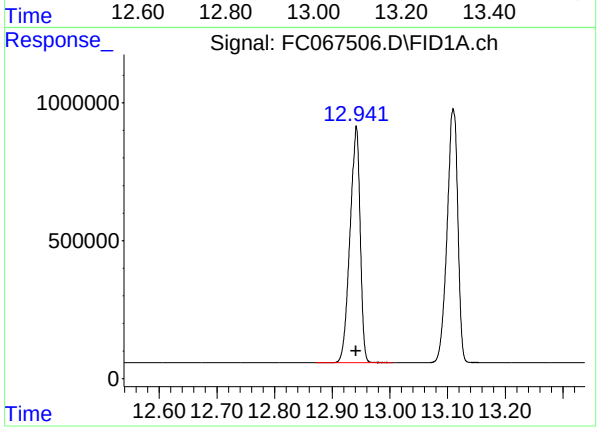
#10 n-Eicosane (C20)

R.T.: 12.499 min
Delta R.T.: 0.000 min
Response: 12105735
Conc: 98.68 ug/ml



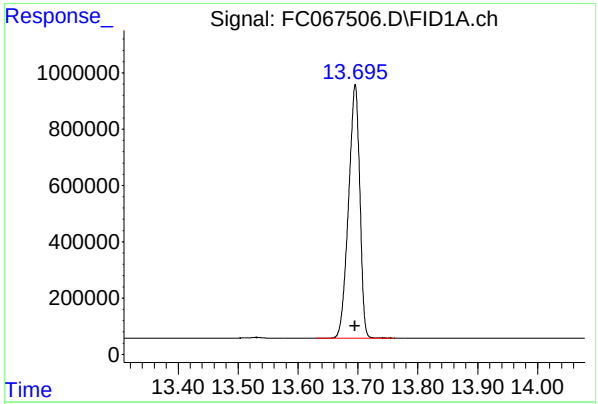
#11 n-Heneicosane (C21)

R.T.: 13.110 min
Delta R.T.: 0.000 min
Response: 11868997
Conc: 98.84 ug/ml



#12 1-chlorooctadecane (SURR)

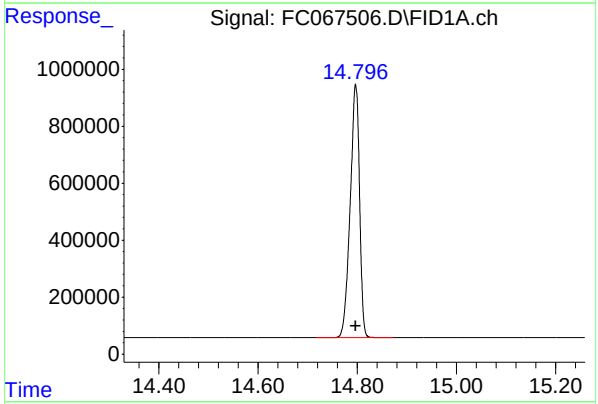
R.T.: 12.941 min
Delta R.T.: 0.000 min
Response: 10490435
Conc: 99.22 ug/ml



#13 n-Docosane (C22)

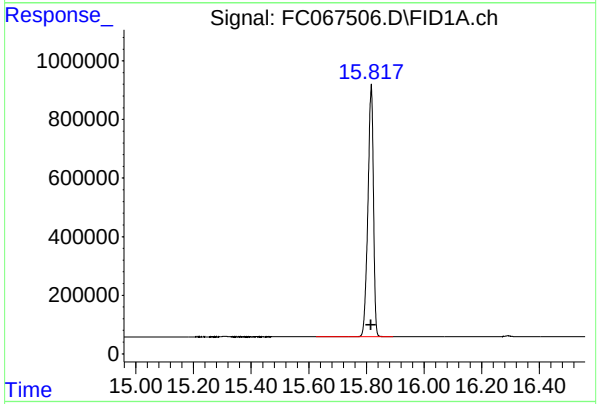
R.T.: 13.695 min
Delta R.T.: 0.000 min
Response: 11751176
Conc: 98.74 ug/ml

Instrument :
FID_C
ClientSampleId :
100 PPM ALIPHATIC HC STD1



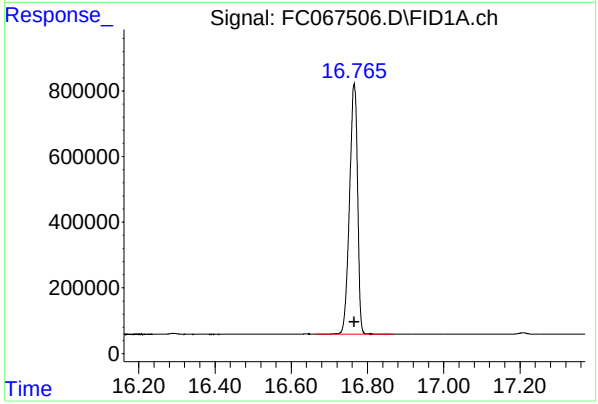
#14 n-Tetracosane (C24)

R.T.: 14.797 min
Delta R.T.: 0.000 min
Response: 11637443
Conc: 98.78 ug/ml



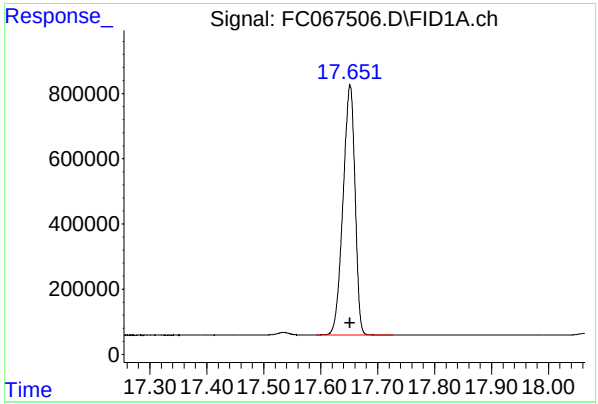
#15 n-Hexacosane (C26)

R.T.: 15.816 min
Delta R.T.: 0.000 min
Response: 11410589
Conc: 98.65 ug/ml



#16 n-Octacosane (C28)

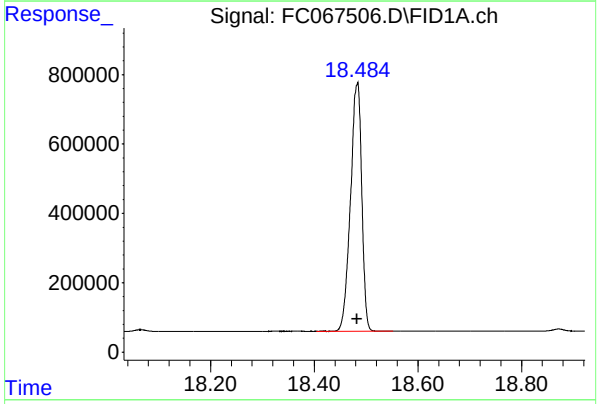
R.T.: 16.765 min
Delta R.T.: 0.000 min
Response: 11146972
Conc: 98.03 ug/ml



#17 n-Tricontane (C30)

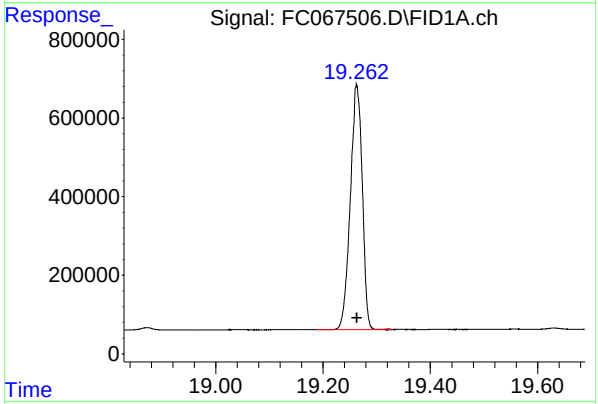
R.T.: 17.651 min
Delta R.T.: 0.000 min
Response: 11224678
Conc: 97.10 ug/ml

Instrument :
FID_C
ClientSampleId :
100 PPM ALIPHATIC HC STD1



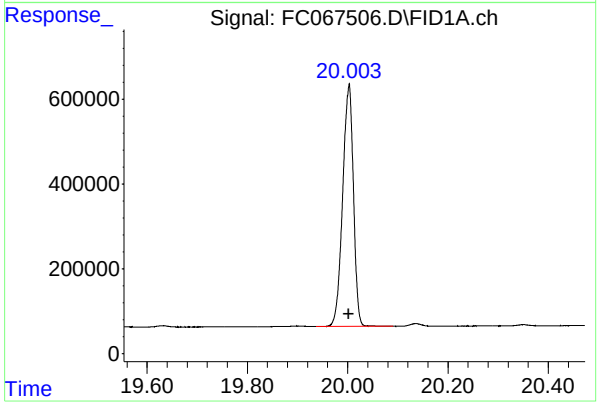
#18 n-Dotriacontane (C32)

R.T.: 18.483 min
Delta R.T.: 0.000 min
Response: 10806351
Conc: 96.39 ug/ml



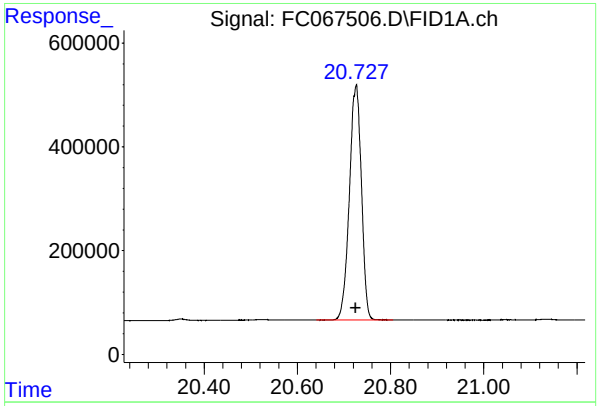
#19 n-Tetratriacontane (C34)

R.T.: 19.263 min
Delta R.T.: 0.000 min
Response: 9619727
Conc: 96.45 ug/ml



#20 n-Hexatriacontane (C36)

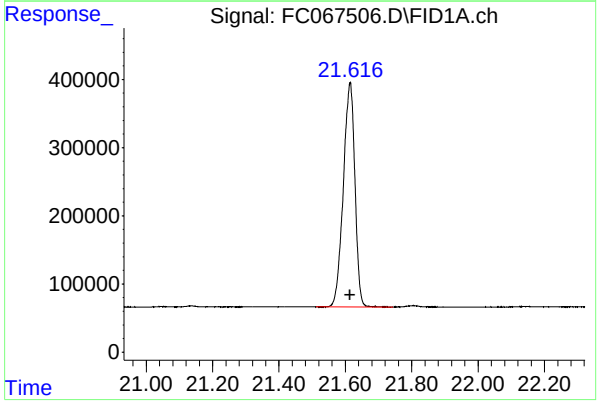
R.T.: 20.002 min
Delta R.T.: 0.000 min
Response: 8494635
Conc: 97.26 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 20.726 min
Delta R.T.: 0.000 min
Response: 8112623
Conc: 97.30 ug/ml

Instrument :
FID_C
ClientSampleId :
100 PPM ALIPHATIC HC STD1



#22 n-Tetracontane (C40)

R.T.: 21.614 min
Delta R.T.: 0.000 min
Response: 7992636
Conc: 97.52 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC102324AL\
Data File : FC067506.D
Signal(s) : FID1A.ch
Acq On : 23 Oct 2024 15:12
Sample : 100 PPM ALIPHATIC HC STD1
Misc :
ALS Vial : 11 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 102324.M
Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.278	3.245	3.345	BB	1482982	12920314	89.76%	5.044%
2	4.343	4.275	4.414	BB	1378444	13085907	90.91%	5.108%
3	5.922	5.852	6.014	BB	1478546	14394132	100.00%	5.619%
4	6.360	6.300	6.427	BB	1268307	13016771	90.43%	5.081%
5	6.979	6.924	7.094	BV	1345672	13836866	96.13%	5.402%
6	8.152	8.077	8.224	BB	1158926	12659193	87.95%	4.942%
7	9.751	9.705	9.842	BB	1114390	12808774	88.99%	5.000%
8	11.193	11.149	11.265	BV	1059950	12738874	88.50%	4.973%
9	11.506	11.437	11.570	BB	1165644	14037783	97.52%	5.480%
10	12.499	12.434	12.565	BB	956464	12105735	84.10%	4.726%
11	12.941	12.872	13.005	BB	861029	10490435	72.88%	4.095%
12	13.110	13.005	13.180	BB	919632	11868997	82.46%	4.633%
13	13.695	13.630	13.759	BB	900624	11751176	81.64%	4.587%
14	14.797	14.717	14.872	BB	888415	11637443	80.85%	4.543%
15	15.816	15.625	15.892	BB	863938	11410589	79.27%	4.454%
16	16.765	16.665	16.867	BB	761325	11146972	77.44%	4.352%
17	17.651	17.592	17.727	BB	765890	11224678	77.98%	4.382%
18	18.483	18.404	18.552	BB	712666	10806351	75.07%	4.219%
19	19.263	19.187	19.330	BB	619243	9619727	66.83%	3.755%
20	20.002	19.937	20.090	BB	565569	8494635	59.01%	3.316%
21	20.726	20.640	20.805	BB	451489	8112623	56.36%	3.167%
22	21.614	21.512	21.744	BB	329592	7992636	55.53%	3.120%

Sum of corrected areas: 256160611

Aliphatic EPH 102324.M Wed Oct 23 18:20:49 2024

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

Lab Sample ID:	50 PPM ALIPHATIC HC S	Acq On:	23 Oct 2024 15:48
Client Sample ID:		Operator:	YP/AJ
Data file:	FC067507.D	Misc:	
Instrument:	FID_C	ALS Vial:	12
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aliphatic C9-C12	3.174	6.454	19933185.000	150.000	ug/ml
Aliphatic C12-C16	6.455	9.845	12990634.000	100.000	ug/ml
Aliphatic C16-C21	9.846	13.203	18782701.000	150.000	ug/ml
Aliphatic C21-C28	13.204	16.858	23609090.000	200.000	ug/ml
Aliphatic C28-C40	16.859	21.704	29316600.000	300.000	ug/ml
Aliphatic EPH	3.174		104632210.000	900.000	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC102324AL\
Data File : FC067507.D
Signal(s) : FID1A.ch
Acq On : 23 Oct 2024 15:48
Operator : YP/AJ
Sample : 50 PPM ALIPHATIC HC STD2
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
50 PPM ALIPHATIC HC STD2

Integration File: autoint1.e
Quant Time: Oct 23 17:21:14 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 17:19:01 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)	11.500	7186867	50.330 ug/ml
Spiked Amount	50.000		Recovery =	100.66%
12) S	1-chlorooctadecane (S...	12.937	5350584	50.403 ug/ml
Spiked Amount	50.000		Recovery =	100.81%
	Target Compounds			
1) T	n-Nonane (C9)	3.275	6596270	50.122 ug/ml
2) T	n-Decane (C10)	4.340	6686022	50.181 ug/ml
3) T	A~Naphthalene (C11.7)	5.918	7350672	50.344 ug/ml
4) T	n-Dodecane (C12)	6.356	6650893	50.202 ug/ml
5) T	A~2-methylnaphthalene...	6.974	7049073	50.402 ug/ml
6) T	n-Tetradecane (C14)	8.149	6466785	50.292 ug/ml
7) T	n-Hexadecane (C16)	9.747	6523849	50.293 ug/ml
8) T	n-Octadecane (C18)	11.188	6511575	50.329 ug/ml
10) T	n-Eicosane (C20)	12.495	6199533	50.355 ug/ml
11) T	n-Heneicosane (C21)	13.105	6071593	50.372 ug/ml
13) T	n-Docosane (C22)	13.691	6022373	50.399 ug/ml
14) T	n-Tetracosane (C24)	14.793	5967985	50.435 ug/ml
15) T	n-Hexacosane (C26)	15.812	5860085	50.441 ug/ml
16) T	n-Octacosane (C28)	16.761	5758647	50.429 ug/ml
17) T	n-Tricontane (C30)	17.647	5830292	50.290 ug/ml
18) T	n-Dotriacontane (C32)	18.477	5634053	50.168 ug/ml
19) T	n-Tetratriacontane (C34)	19.260	5024380	50.251 ug/ml
20) T	n-Hexatriacontane (C36)	19.998	4430530	50.483 ug/ml
21) T	n-Octatriacontane (C38)	20.720	4230730	50.491 ug/ml
22) T	n-Tetracontane (C40)	21.606	4166615	50.557 ug/ml

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

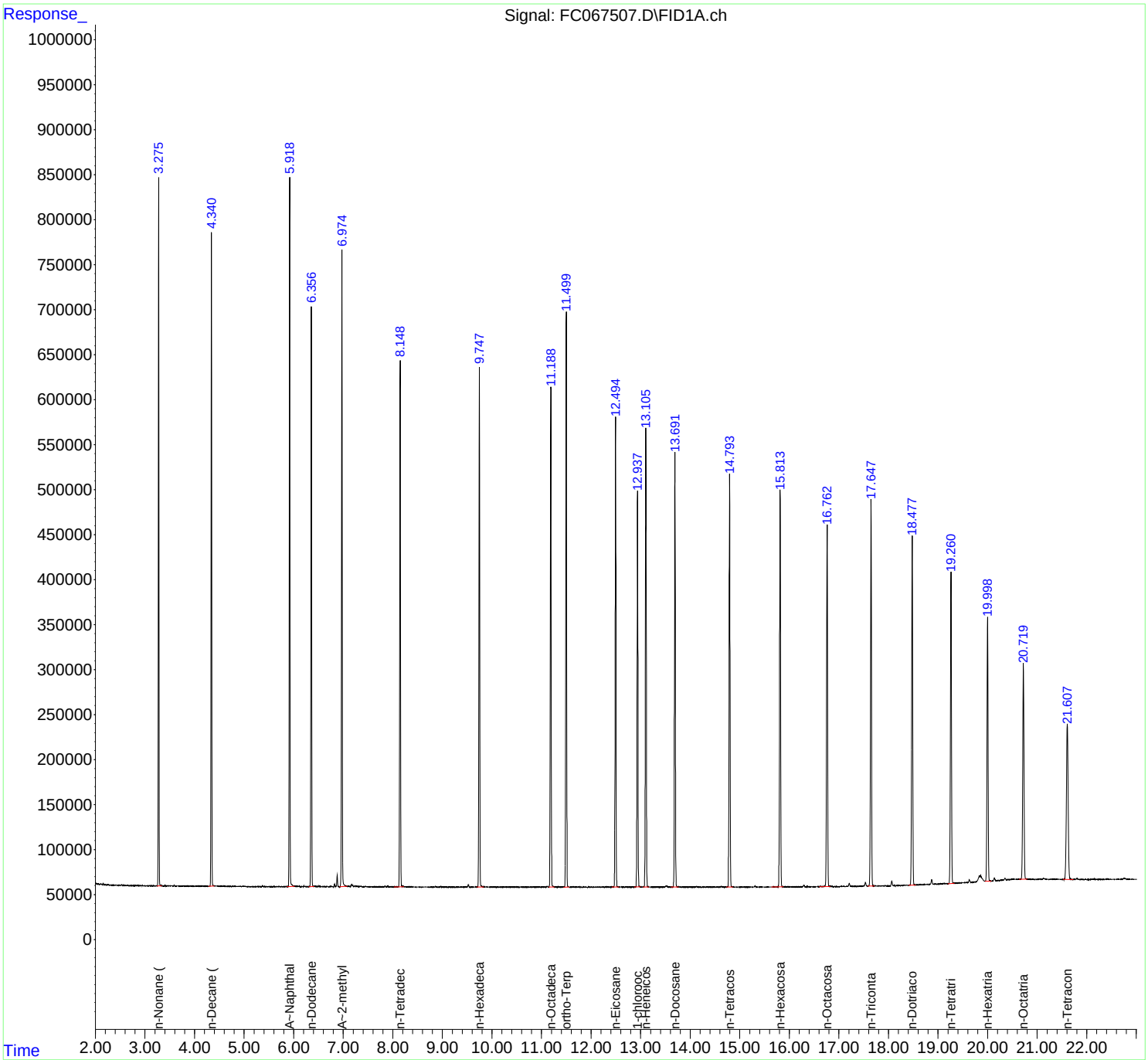
Quantitation Report (QT Reviewed)

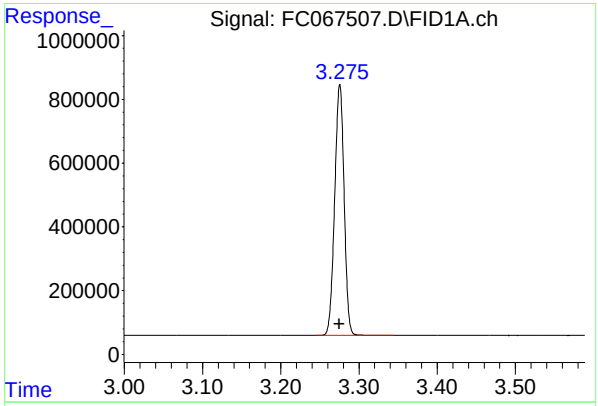
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC102324AL\
Data File : FC067507.D
Signal(s) : FID1A.ch
Acq On : 23 Oct 2024 15:48
Operator : YP/AJ
Sample : 50 PPM ALIPHATIC HC STD2
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
50 PPM ALIPHATIC HC STD2

Integration File: autoint1.e
Quant Time: Oct 23 17:21:14 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 17:19:01 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

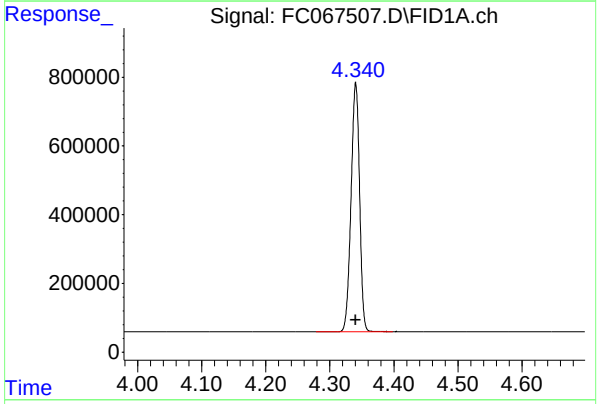




#1 n-Nonane (C9)

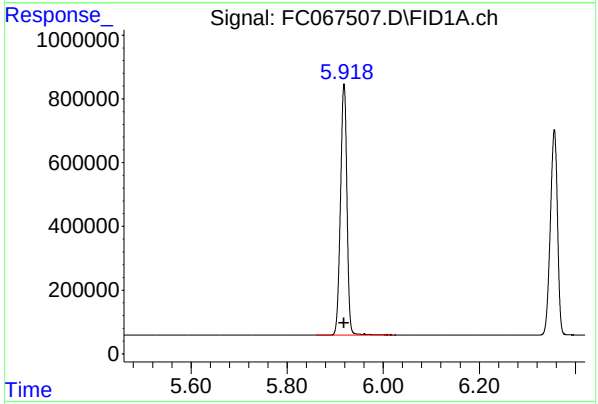
R.T.: 3.275 min
Delta R.T.: 0.000 min
Response: 6596270
Conc: 50.12 ug/ml

Instrument :
FID_C
ClientSampleId :
50 PPM ALIPHATIC HC STD2



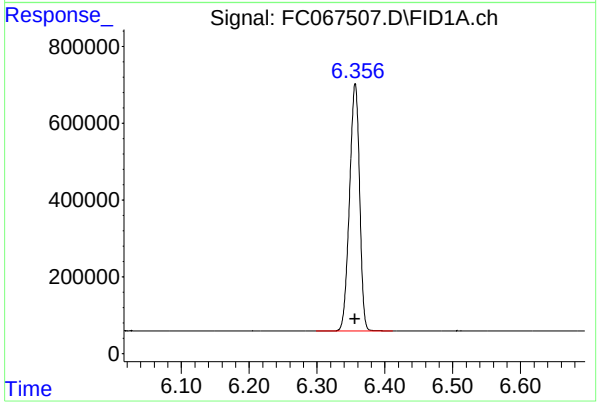
#2 n-Decane (C10)

R.T.: 4.340 min
Delta R.T.: 0.000 min
Response: 6686022
Conc: 50.18 ug/ml



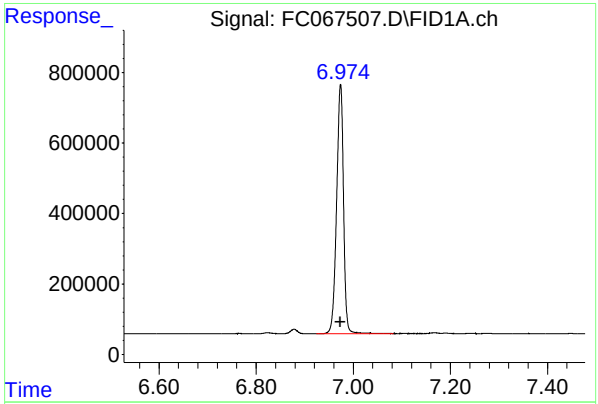
#3 A~Naphthalene (C11.7)

R.T.: 5.918 min
Delta R.T.: 0.000 min
Response: 7350672
Conc: 50.34 ug/ml



#4 n-Dodecane (C12)

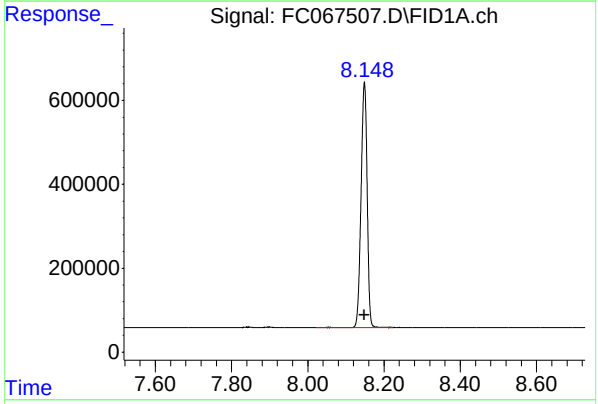
R.T.: 6.356 min
Delta R.T.: 0.000 min
Response: 6650893
Conc: 50.20 ug/ml



#5 A~2-methylnaphthalene (C12.89)

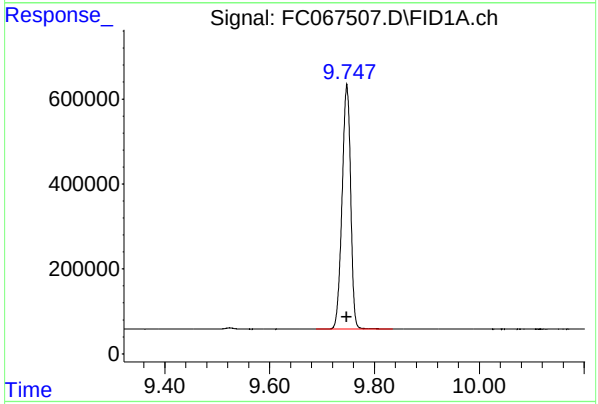
R.T.: 6.974 min
Delta R.T.: 0.000 min
Response: 7049073
Conc: 50.40 ug/ml

Instrument :
FID_C
ClientSampleId :
50 PPM ALIPHATIC HC STD2



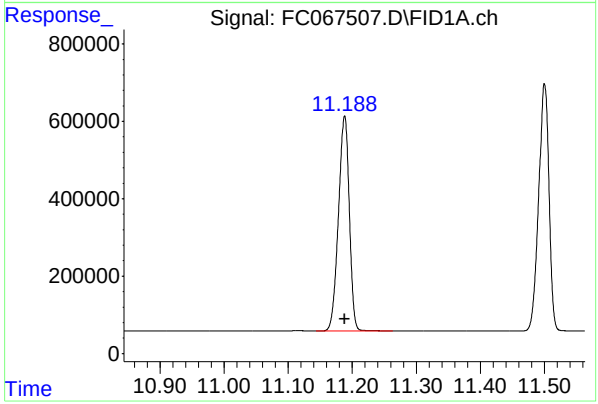
#6 n-Tetradecane (C14)

R.T.: 8.149 min
Delta R.T.: 0.000 min
Response: 6466785
Conc: 50.29 ug/ml



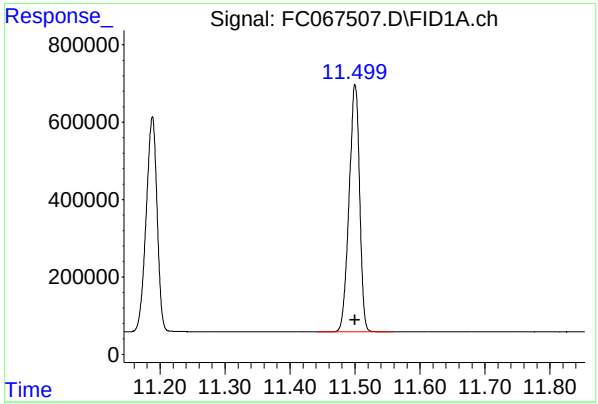
#7 n-Hexadecane (C16)

R.T.: 9.747 min
Delta R.T.: 0.000 min
Response: 6523849
Conc: 50.29 ug/ml



#8 n-Octadecane (C18)

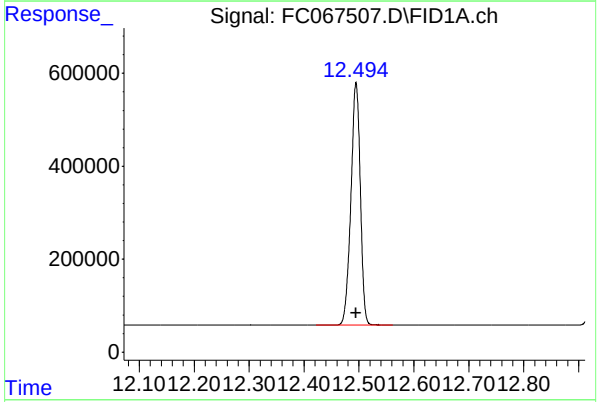
R.T.: 11.188 min
Delta R.T.: 0.000 min
Response: 6511575
Conc: 50.33 ug/ml



#9 ortho-Terphenyl (SURR)

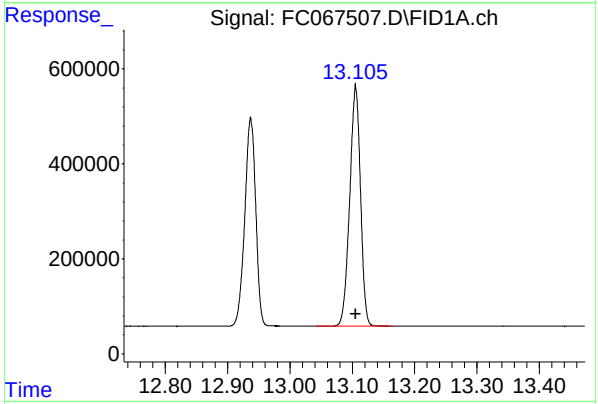
R.T.: 11.500 min
Delta R.T.: 0.000 min
Response: 7186867
Conc: 50.33 ug/ml

Instrument :
FID_C
ClientSampleId :
50 PPM ALIPHATIC HC STD2



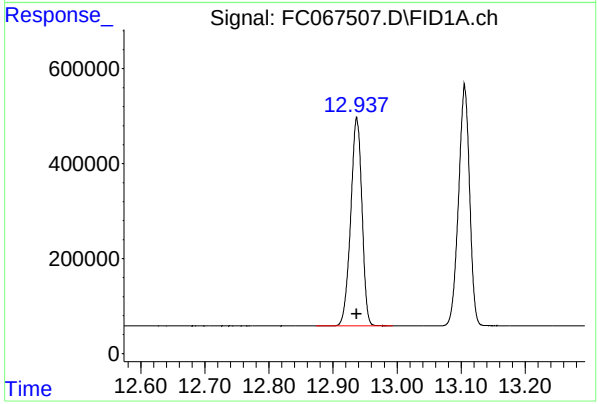
#10 n-Eicosane (C20)

R.T.: 12.495 min
Delta R.T.: 0.000 min
Response: 6199533
Conc: 50.36 ug/ml



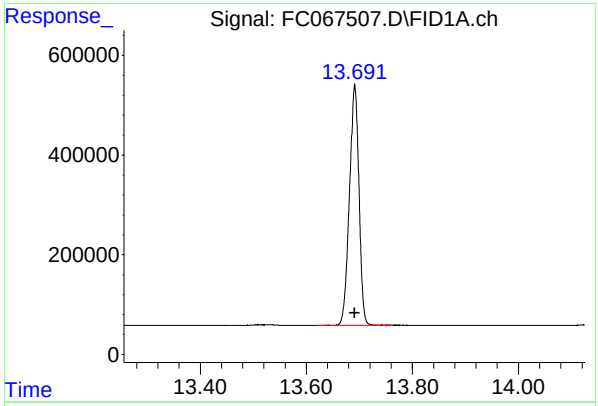
#11 n-Heneicosane (C21)

R.T.: 13.105 min
Delta R.T.: 0.000 min
Response: 6071593
Conc: 50.37 ug/ml



#12 1-chlorooctadecane (SURR)

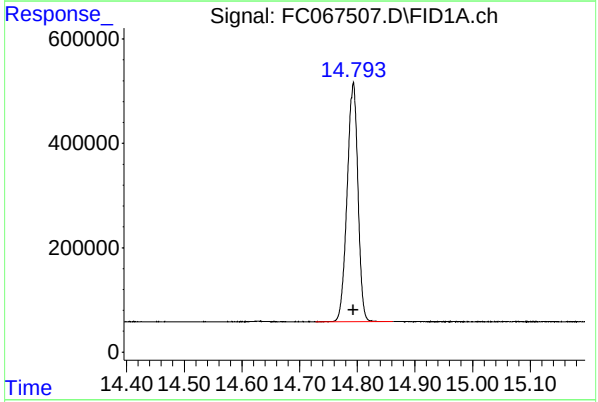
R.T.: 12.937 min
Delta R.T.: 0.000 min
Response: 5350584
Conc: 50.40 ug/ml



#13 n-Docosane (C22)

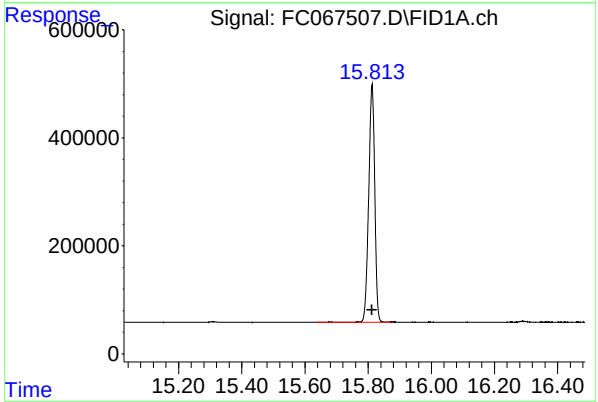
R.T.: 13.691 min
Delta R.T.: 0.000 min
Response: 6022373
Conc: 50.40 ug/ml

Instrument :
FID_C
ClientSampleId :
50 PPM ALIPHATIC HC STD2



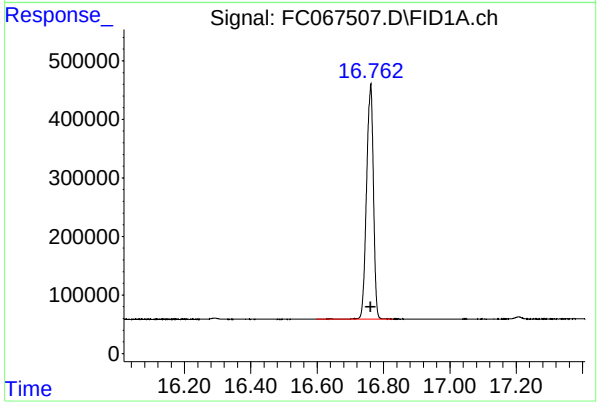
#14 n-Tetracosane (C24)

R.T.: 14.793 min
Delta R.T.: 0.000 min
Response: 5967985
Conc: 50.43 ug/ml



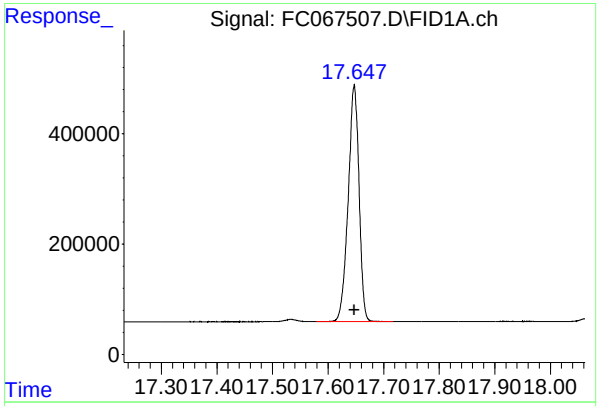
#15 n-Hexacosane (C26)

R.T.: 15.812 min
Delta R.T.: 0.000 min
Response: 5860085
Conc: 50.44 ug/ml



#16 n-Octacosane (C28)

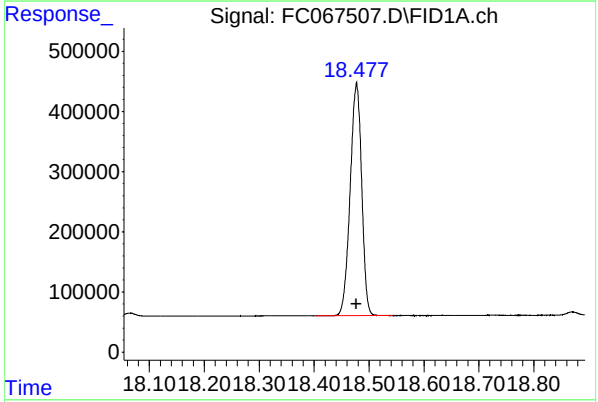
R.T.: 16.761 min
Delta R.T.: 0.000 min
Response: 5758647
Conc: 50.43 ug/ml



#17 n-Tricontane (C30)

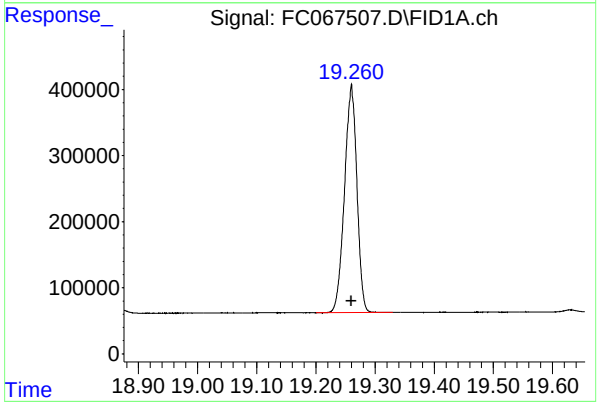
R.T.: 17.647 min
Delta R.T.: 0.000 min
Response: 5830292
Conc: 50.29 ug/ml

Instrument :
FID_C
ClientSampleId :
50 PPM ALIPHATIC HC STD2



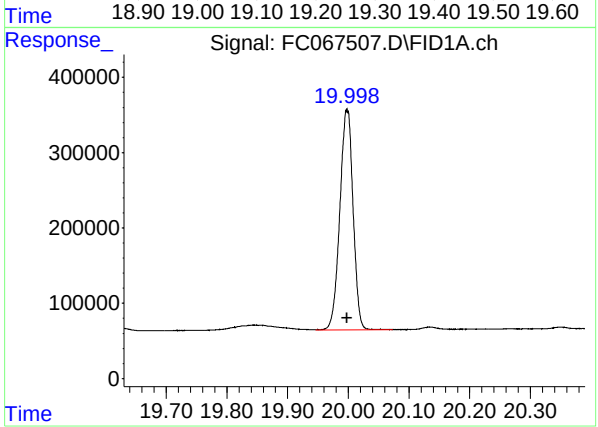
#18 n-Dotriacontane (C32)

R.T.: 18.477 min
Delta R.T.: 0.000 min
Response: 5634053
Conc: 50.17 ug/ml



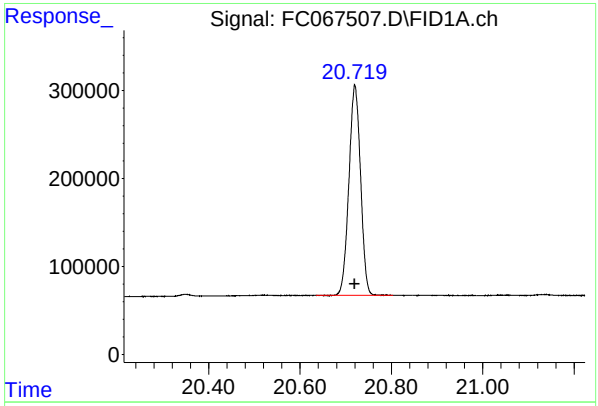
#19 n-Tetratriacontane (C34)

R.T.: 19.260 min
Delta R.T.: 0.000 min
Response: 5024380
Conc: 50.25 ug/ml



#20 n-Hexatriacontane (C36)

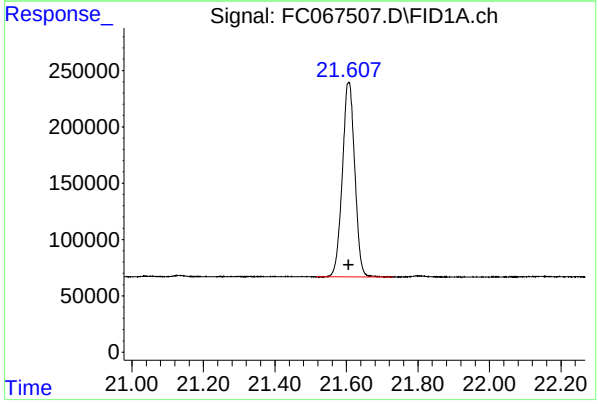
R.T.: 19.998 min
Delta R.T.: 0.000 min
Response: 4430530
Conc: 50.48 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 20.720 min
Delta R.T.: 0.000 min
Response: 4230730
Conc: 50.49 ug/ml

Instrument :
FID_C
ClientSampleId :
50 PPM ALIPHATIC HC STD2



#22 n-Tetracontane (C40)

R.T.: 21.606 min
Delta R.T.: 0.000 min
Response: 4166615
Conc: 50.56 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC102324AL\
Data File : FC067507.D
Signal(s) : FID1A.ch
Acq On : 23 Oct 2024 15:48
Sample : 50 PPM ALIPHATIC HC STD2
Misc :
ALS Vial : 12 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 102324.M
Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.275	3.245	3.343	BB	787475	6596270	89.74%	5.014%
2	4.340	4.278	4.398	BB	725048	6686022	90.96%	5.082%
3	5.918	5.860	6.020	BB	788107	7350672	100.00%	5.587%
4	6.356	6.298	6.412	BB	647440	6650893	90.48%	5.055%
5	6.974	6.923	7.082	BB	708667	7049073	95.90%	5.358%
6	8.149	8.022	8.223	BB	584678	6466785	87.98%	4.915%
7	9.747	9.688	9.835	BB	574143	6523849	88.75%	4.958%
8	11.188	11.143	11.263	BB	557552	6511575	88.58%	4.949%
9	11.500	11.440	11.558	BB	638489	7186867	97.77%	5.462%
10	12.495	12.422	12.562	BB	521546	6199533	84.34%	4.712%
11	12.937	12.873	12.993	BB	438883	5350584	72.79%	4.067%
12	13.105	13.042	13.165	BB	507791	6071593	82.60%	4.615%
13	13.691	13.618	13.763	BB	482823	6022373	81.93%	4.577%
14	14.793	14.728	14.862	BB	460497	5967985	81.19%	4.536%
15	15.812	15.635	15.878	BB	438034	5860085	79.72%	4.454%
16	16.761	16.597	16.828	BB	395517	5758647	78.34%	4.377%
17	17.647	17.578	17.717	BB	427620	5830292	79.32%	4.431%
18	18.477	18.403	18.543	BB	385150	5634053	76.65%	4.282%
19	19.260	19.200	19.330	BB	345032	5024380	68.35%	3.819%
20	19.998	19.947	20.073	VB	291698	4430530	60.27%	3.367%
21	20.720	20.635	20.803	BB	239127	4230730	57.56%	3.216%
22	21.606	21.515	21.730	BB	172709	4166615	56.68%	3.167%

Sum of corrected areas: 131569405

Aliphatic EPH 102324.M Wed Oct 23 18:21:16 2024

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:	23 Oct 2024 16:25
Client Sample ID:		Operator:	YP/AJ
Data file:	FC067508.D	Misc:	
Instrument:	FID_C	ALS Vial:	13
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aliphatic C9-C12	3.174	6.454	8061570.000	60.000	ug/ml
Aliphatic C12-C16	6.455	9.845	5208245.000	40.000	ug/ml
Aliphatic C16-C21	9.846	13.203	7526010.000	60.000	ug/ml
Aliphatic C21-C28	13.204	16.858	9458827.000	80.000	ug/ml
Aliphatic C28-C40	16.859	21.704	11954663.000	120.000	ug/ml
Aliphatic EPH	3.174		42209315.000	360.000	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC102324AL\
Data File : FC067508.D
Signal(s) : FID1A.ch
Acq On : 23 Oct 2024 16:25
Operator : YP/AJ
Sample : 20 PPM ALIPHATIC HC STD3
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD3

Integration File: autoint1.e
Quant Time: Oct 23 17:17:15 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 17:16:59 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)	11.496	2885453	20.000	ug/ml
Spiked Amount	50.000		Recovery =	40.00%	
12) S	1-chlorooctadecane (S...	12.935	2131037	20.000	ug/ml
Spiked Amount	50.000		Recovery =	40.00%	
	Target Compounds				
1) T	n-Nonane (C9)	3.275	2673666	20.000	ug/ml
2) T	n-Decane (C10)	4.339	2702691	20.000	ug/ml
3) T	A~Naphthalene (C11.7)	5.916	2941492	20.000	ug/ml
4) T	n-Dodecane (C12)	6.354	2685213	20.000	ug/ml
5) T	A~2-methylnaphthalene...	6.971	2804469	20.000	ug/ml
6) T	n-Tetradecane (C14)	8.146	2596600	20.000	ug/ml
7) T	n-Hexadecane (C16)	9.745	2611645	20.000	ug/ml
8) T	n-Octadecane (C18)	11.185	2610385	20.000	ug/ml
10) T	n-Eicosane (C20)	12.492	2486010	20.000	ug/ml
11) T	n-Heneicosane (C21)	13.103	2429615	20.000	ug/ml
13) T	n-Docosane (C22)	13.688	2410406	20.000	ug/ml
14) T	n-Tetracosane (C24)	14.790	2385181	20.000	ug/ml
15) T	n-Hexacosane (C26)	15.809	2344463	20.000	ug/ml
16) T	n-Octacosane (C28)	16.757	2318777	20.000	ug/ml
17) T	n-Tricontane (C30)	17.644	2378909	20.000	ug/ml
18) T	n-Dotriacontane (C32)	18.475	2323289	20.000	ug/ml
19) T	n-Tetratriacontane (C34)	19.258	2065430	20.000	ug/ml
20) T	n-Hexatriacontane (C36)	19.995	1794670	20.000	ug/ml
21) T	n-Octatriacontane (C38)	20.718	1712685	20.000	ug/ml
22) T	n-Tetracontane (C40)	21.604	1679680	20.000	ug/ml

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

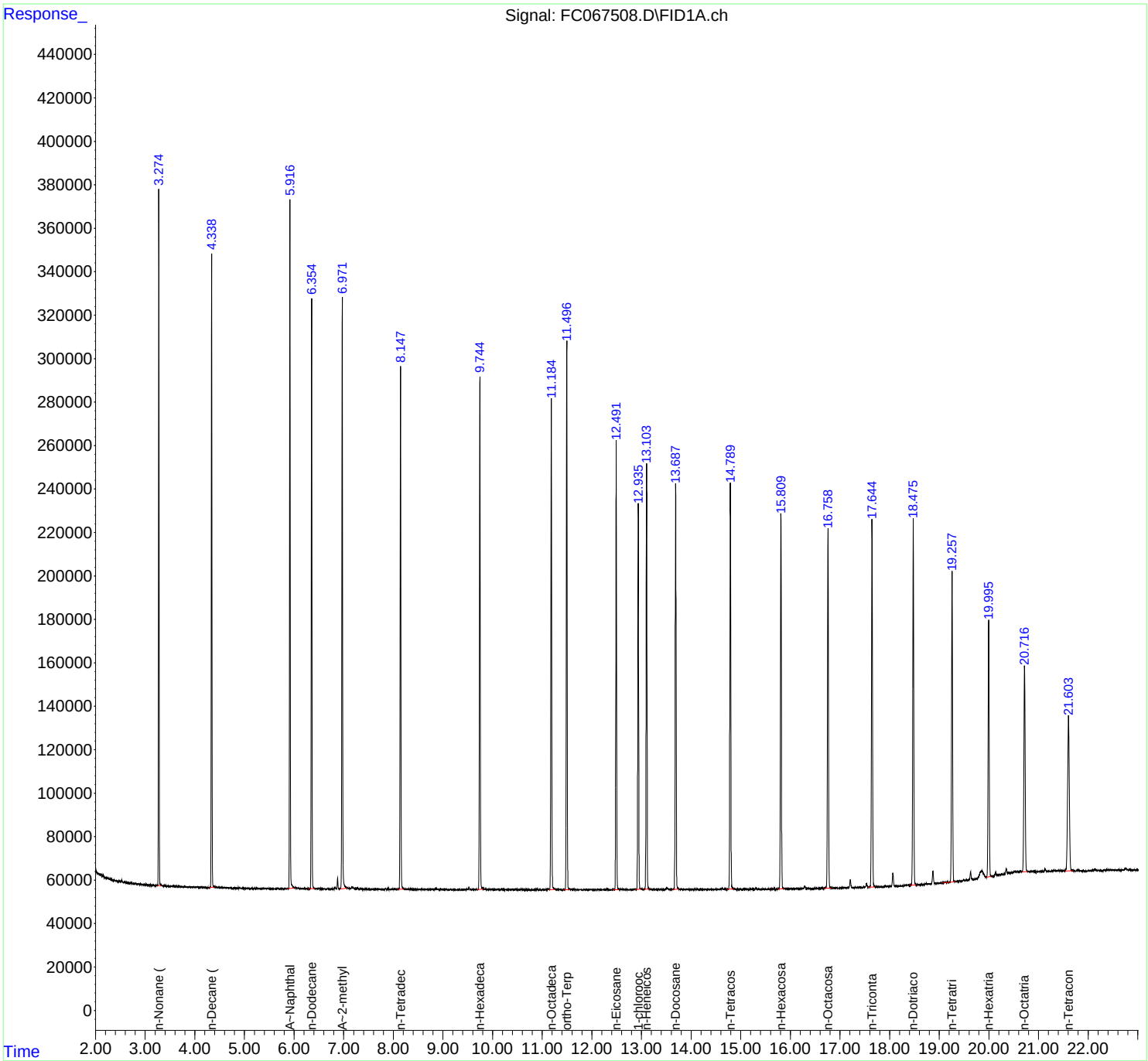
Quantitation Report (QT Reviewed)

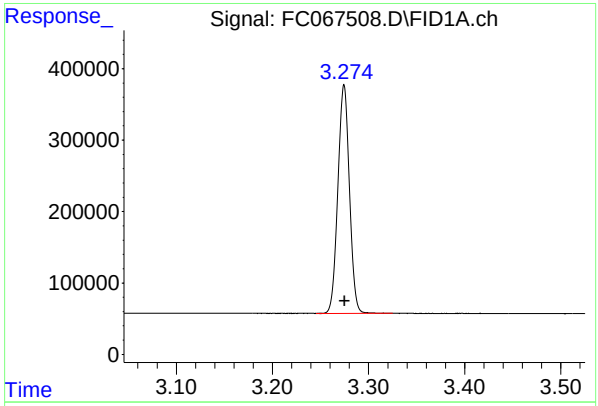
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC102324AL\
Data File : FC067508.D
Signal(s) : FID1A.ch
Acq On : 23 Oct 2024 16:25
Operator : YP/AJ
Sample : 20 PPM ALIPHATIC HC STD3
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD3

Integration File: autoint1.e
Quant Time: Oct 23 17:17:15 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 17:16:59 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

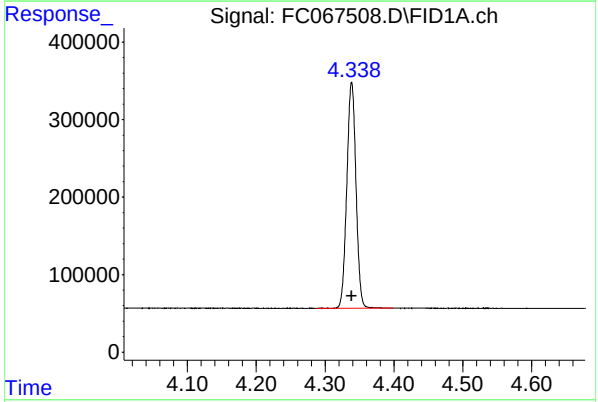




#1 n-Nonane (C9)

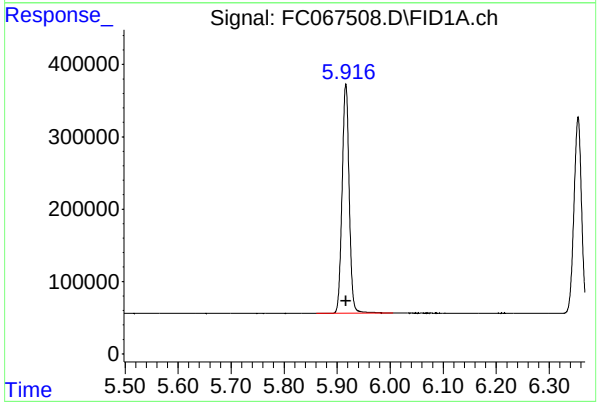
R.T.: 3.275 min
Delta R.T.: 0.000 min
Response: 2673666
Conc: 20.00 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD3



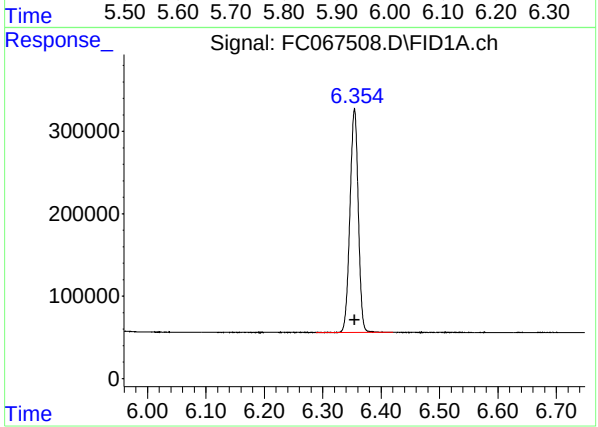
#2 n-Decane (C10)

R.T.: 4.339 min
Delta R.T.: 0.000 min
Response: 2702691
Conc: 20.00 ug/ml



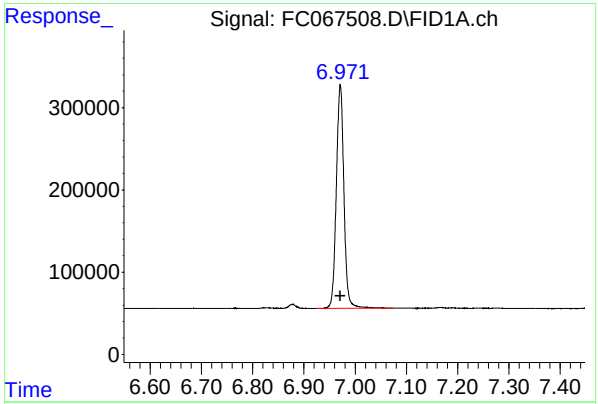
#3 A~Naphthalene (C11.7)

R.T.: 5.916 min
Delta R.T.: 0.000 min
Response: 2941492
Conc: 20.00 ug/ml



#4 n-Dodecane (C12)

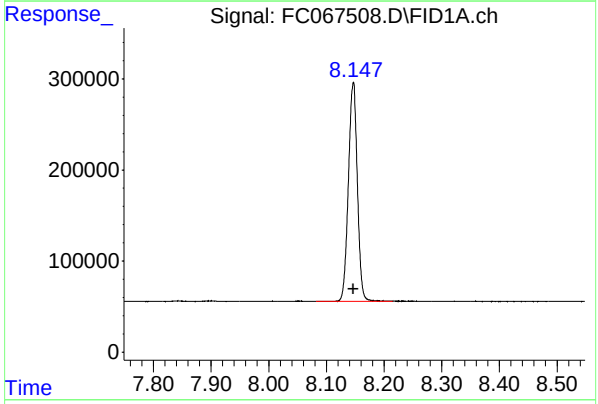
R.T.: 6.354 min
Delta R.T.: 0.000 min
Response: 2685213
Conc: 20.00 ug/ml



#5 A~2-methylnaphthalene (C12.89)

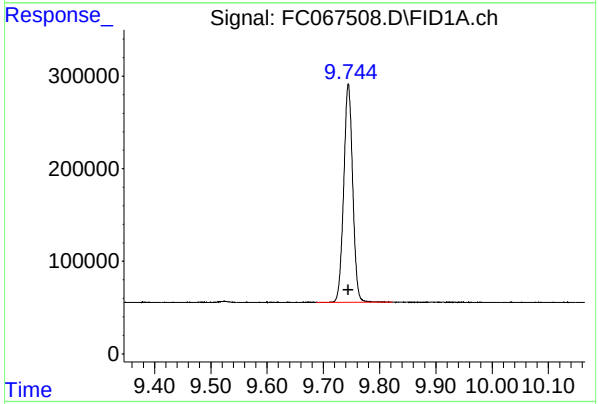
R.T.: 6.971 min
Delta R.T.: 0.000 min
Response: 2804469
Conc: 20.00 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD3



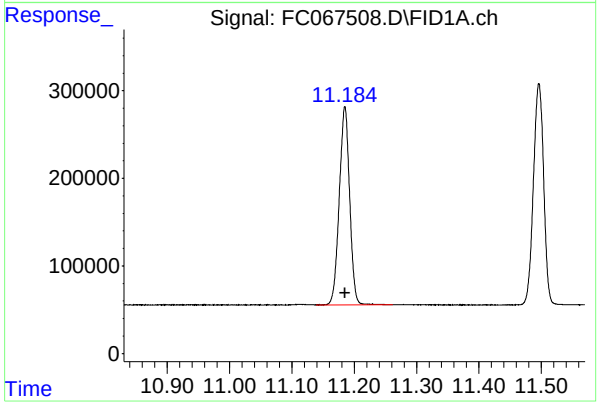
#6 n-Tetradecane (C14)

R.T.: 8.146 min
Delta R.T.: 0.000 min
Response: 2596600
Conc: 20.00 ug/ml



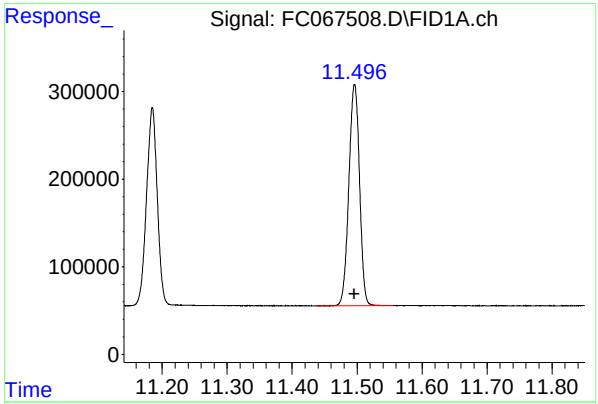
#7 n-Hexadecane (C16)

R.T.: 9.745 min
Delta R.T.: 0.000 min
Response: 2611645
Conc: 20.00 ug/ml



#8 n-Octadecane (C18)

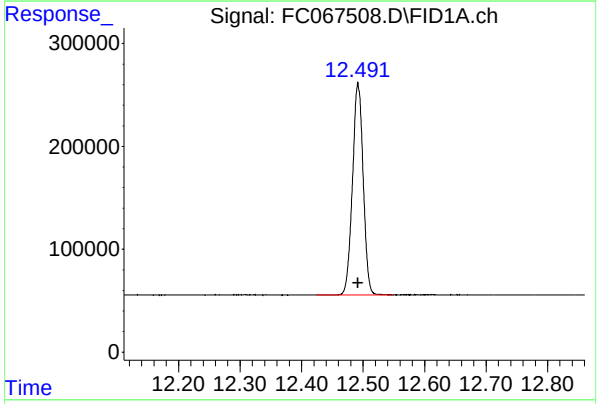
R.T.: 11.185 min
Delta R.T.: 0.000 min
Response: 2610385
Conc: 20.00 ug/ml



#9 ortho-Terphenyl (SURR)

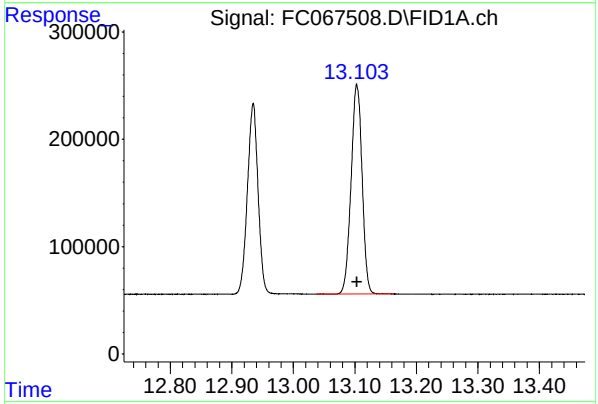
R.T.: 11.496 min
Delta R.T.: 0.000 min
Response: 2885453
Conc: 20.00 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD3



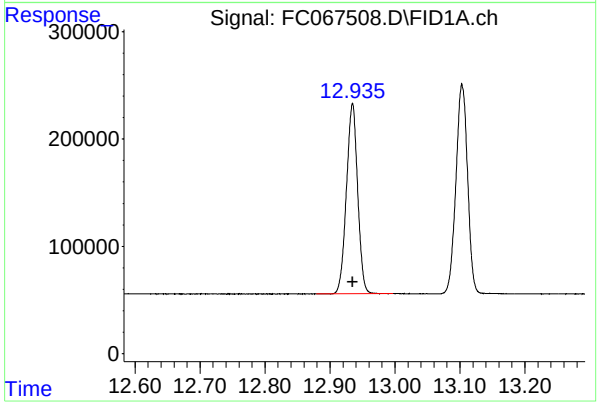
#10 n-Eicosane (C20)

R.T.: 12.492 min
Delta R.T.: 0.000 min
Response: 2486010
Conc: 20.00 ug/ml



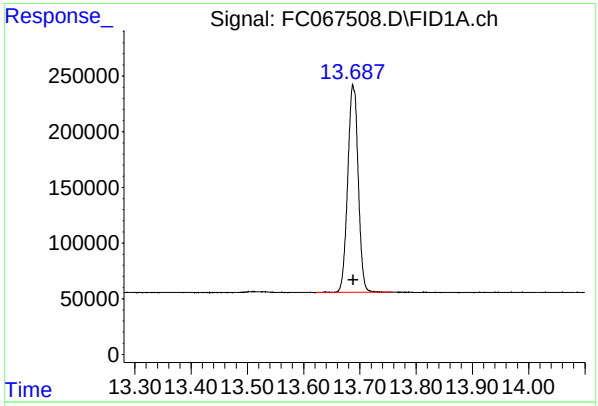
#11 n-Heneicosane (C21)

R.T.: 13.103 min
Delta R.T.: 0.000 min
Response: 2429615
Conc: 20.00 ug/ml



#12 1-chlorooctadecane (SURR)

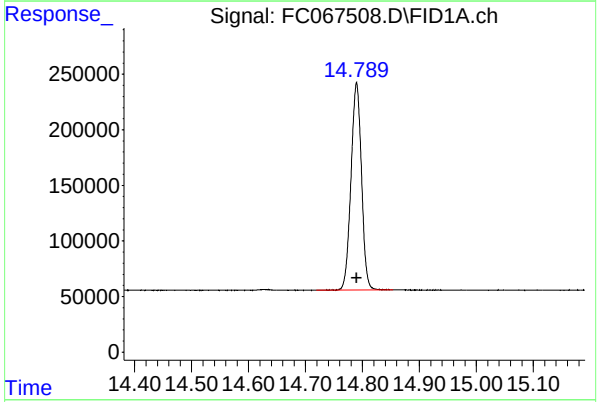
R.T.: 12.935 min
Delta R.T.: 0.000 min
Response: 2131037
Conc: 20.00 ug/ml



#13 n-Docosane (C22)

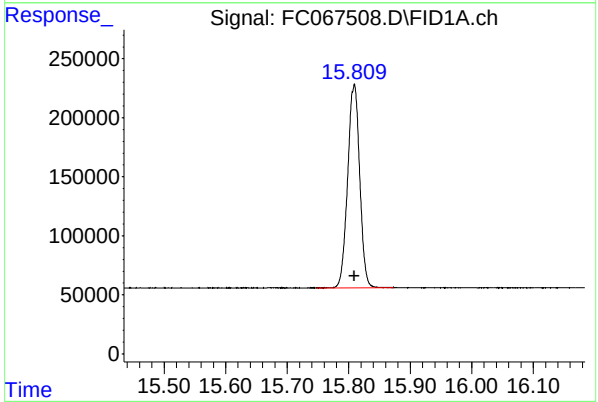
R.T.: 13.688 min
Delta R.T.: 0.000 min
Response: 2410406
Conc: 20.00 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD3



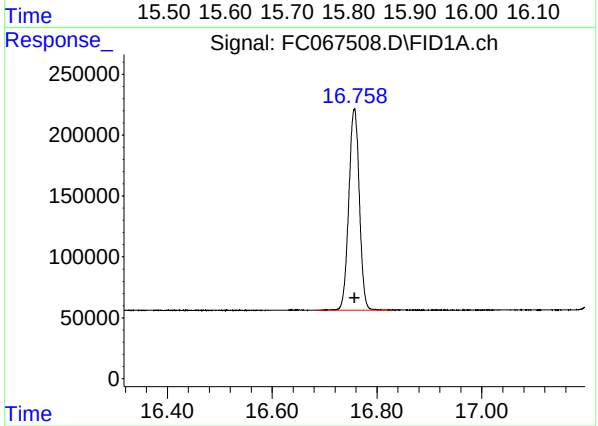
#14 n-Tetracosane (C24)

R.T.: 14.790 min
Delta R.T.: 0.000 min
Response: 2385181
Conc: 20.00 ug/ml



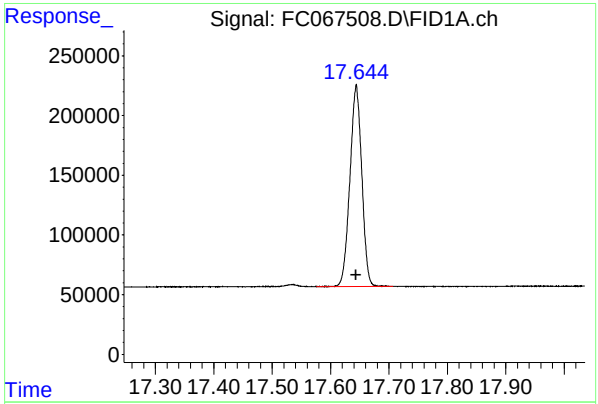
#15 n-Hexacosane (C26)

R.T.: 15.809 min
Delta R.T.: 0.000 min
Response: 2344463
Conc: 20.00 ug/ml



#16 n-Octacosane (C28)

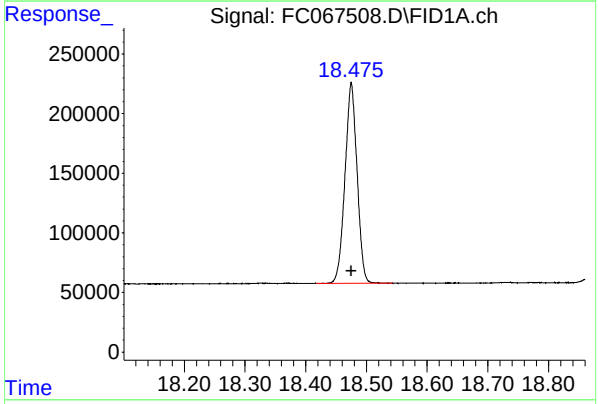
R.T.: 16.757 min
Delta R.T.: 0.000 min
Response: 2318777
Conc: 20.00 ug/ml



#17 n-Tricontane (C30)

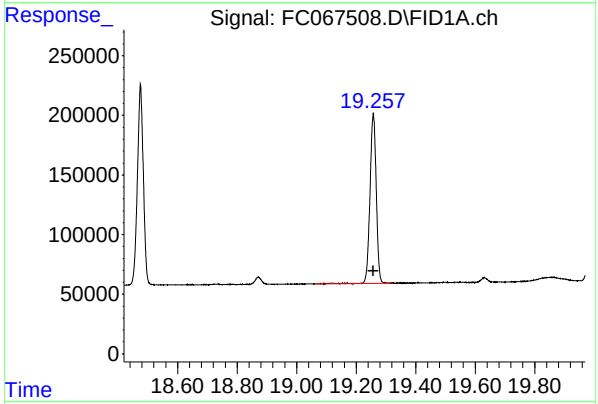
R.T.: 17.644 min
Delta R.T.: 0.000 min
Response: 2378909
Conc: 20.00 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD3



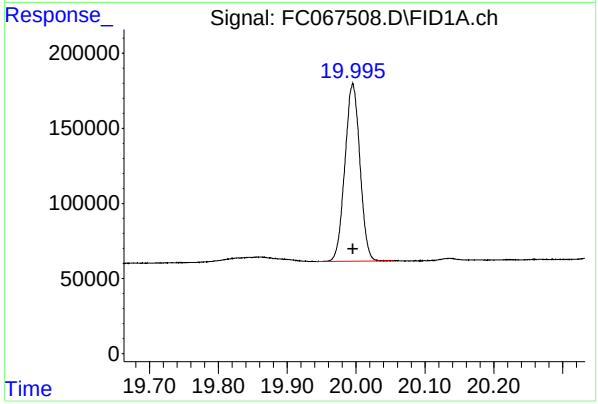
#18 n-Dotriacontane (C32)

R.T.: 18.475 min
Delta R.T.: 0.000 min
Response: 2323289
Conc: 20.00 ug/ml



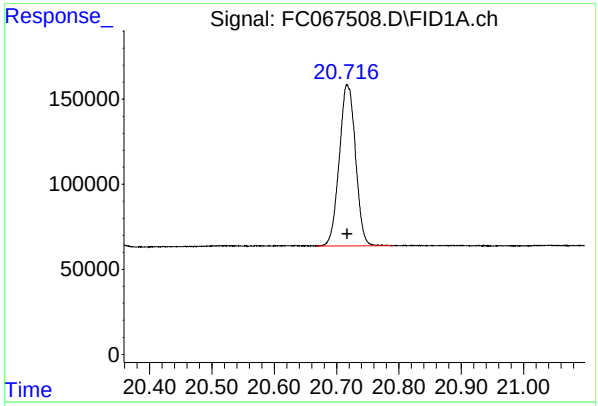
#19 n-Tetratriacontane (C34)

R.T.: 19.258 min
Delta R.T.: 0.000 min
Response: 2065430
Conc: 20.00 ug/ml



#20 n-Hexatriacontane (C36)

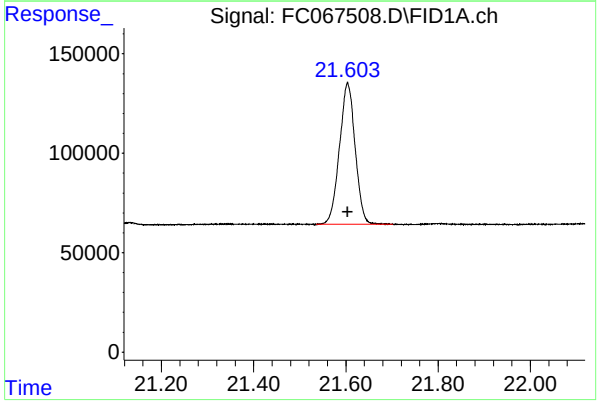
R.T.: 19.995 min
Delta R.T.: 0.000 min
Response: 1794670
Conc: 20.00 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 20.718 min
Delta R.T.: 0.000 min
Response: 1712685
Conc: 20.00 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD3



#22 n-Tetracontane (C40)

R.T.: 21.604 min
Delta R.T.: 0.000 min
Response: 1679680
Conc: 20.00 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC102324AL\
Data File : FC067508.D
Signal(s) : FID1A.ch
Acq On : 23 Oct 2024 16:25
Sample : 20 PPM ALIPHATIC HC STD3
Misc :
ALS Vial : 13 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 102324.M
Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.275	3.245	3.325	BB	321230	2673666	90.89%	5.047%
2	4.339	4.287	4.399	BB	291890	2702691	91.88%	5.102%
3	5.916	5.860	6.005	BB	318035	2941492	100.00%	5.553%
4	6.354	6.289	6.420	BB	270407	2685213	91.29%	5.069%
5	6.971	6.924	7.074	BB	271627	2804469	95.34%	5.294%
6	8.146	8.082	8.215	BB	241446	2596600	88.27%	4.902%
7	9.745	9.687	9.824	BB	236243	2611645	88.79%	4.930%
8	11.185	11.139	11.262	BB	226739	2610385	88.74%	4.928%
9	11.496	11.437	11.555	BB	253146	2885453	98.09%	5.447%
10	12.492	12.424	12.549	BB	205716	2486010	84.52%	4.693%
11	12.935	12.879	12.997	BB	178352	2131037	72.45%	4.023%
12	13.103	13.037	13.162	BB	194305	2429615	82.60%	4.587%
13	13.688	13.622	13.759	BB	184039	2410406	81.95%	4.550%
14	14.790	14.719	14.854	BB	186782	2385181	81.09%	4.503%
15	15.809	15.747	15.872	BB	171744	2344463	79.70%	4.426%
16	16.757	16.684	16.830	BB	165164	2318777	78.83%	4.377%
17	17.644	17.575	17.707	BB	168160	2378909	80.87%	4.491%
18	18.475	18.417	18.544	BB	168488	2323289	78.98%	4.386%
19	19.258	19.065	19.324	BB	141960	2065430	70.22%	3.899%
20	19.995	19.942	20.054	PB	118336	1794670	61.01%	3.388%
21	20.718	20.667	20.790	BB	94381	1712685	58.23%	3.233%
22	21.604	21.535	21.702	BB	71304	1679680	57.10%	3.171%
			Sum of corrected areas:			52971767		

Aliphatic EPH 102324.M Wed Oct 23 18:21:40 2024

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

Lab Sample ID:	10 PPM ALIPHATIC HC S	Acq On:	23 Oct 2024 17:02
Client Sample ID:		Operator:	YP/AJ
Data file:	FC067509.D	Misc:	
Instrument:	FID_C	ALS Vial:	14
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aliphatic C9-C12	3.174	6.454	4198329.000	30.000	ug/ml
Aliphatic C12-C16	6.455	9.845	2702045.000	20.000	ug/ml
Aliphatic C16-C21	9.846	13.203	3934678.000	30.000	ug/ml
Aliphatic C21-C28	13.204	16.858	4951672.000	40.000	ug/ml
Aliphatic C28-C40	16.859	21.704	6283522.000	60.000	ug/ml
Aliphatic EPH	3.174		22070246.000	180.000	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC102324AL\
Data File : FC067509.D
Signal(s) : FID1A.ch
Acq On : 23 Oct 2024 17:02
Operator : YP/AJ
Sample : 10 PPM ALIPHATIC HC STD4
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
10 PPM ALIPHATIC HC STD4

Integration File: autoint1.e
Quant Time: Oct 23 17:42:18 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 17:42:09 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)	11.495	1516253	10.457 ug/ml
	Spiked Amount 50.000		Recovery =	20.91%
12)	S 1-chlorooctadecane (S...	12.934	1104370	10.299 ug/ml
	Spiked Amount 50.000		Recovery =	20.60%
	Target Compounds			
1)	T n-Nonane (C9)	3.274	1392325	10.429 ug/ml
2)	T n-Decane (C10)	4.338	1408883	10.425 ug/ml
3)	T A~Naphthalene (C11.7)	5.916	1523229	10.321 ug/ml
4)	T n-Dodecane (C12)	6.353	1397121	10.404 ug/ml
5)	T A~2-methylnaphthalene...	6.971	1445653	10.250 ug/ml
6)	T n-Tetradecane (C14)	8.146	1348794	10.363 ug/ml
7)	T n-Hexadecane (C16)	9.744	1353251	10.321 ug/ml
8)	T n-Octadecane (C18)	11.184	1362847	10.395 ug/ml
10)	T n-Eicosane (C20)	12.491	1299257	10.409 ug/ml
11)	T n-Heneicosane (C21)	13.102	1272574	10.413 ug/ml
13)	T n-Docosane (C22)	13.687	1260218	10.404 ug/ml
14)	T n-Tetracosane (C24)	14.789	1251574	10.427 ug/ml
15)	T n-Hexacosane (C26)	15.808	1226594	10.413 ug/ml
16)	T n-Octacosane (C28)	16.756	1213286	10.461 ug/ml
17)	T n-Tricontane (C30)	17.643	1249088	10.570 ug/ml
18)	T n-Dotriacontane (C32)	18.474	1225099	10.667 ug/ml
19)	T n-Tetratriacontane (C34)	19.257	1087201	10.641 ug/ml
20)	T n-Hexatriacontane (C36)	19.995	941330	10.535 ug/ml
21)	T n-Octatriacontane (C38)	20.719	898154	10.530 ug/ml
22)	T n-Tetracontane (C40)	21.604	882650	10.523 ug/ml

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

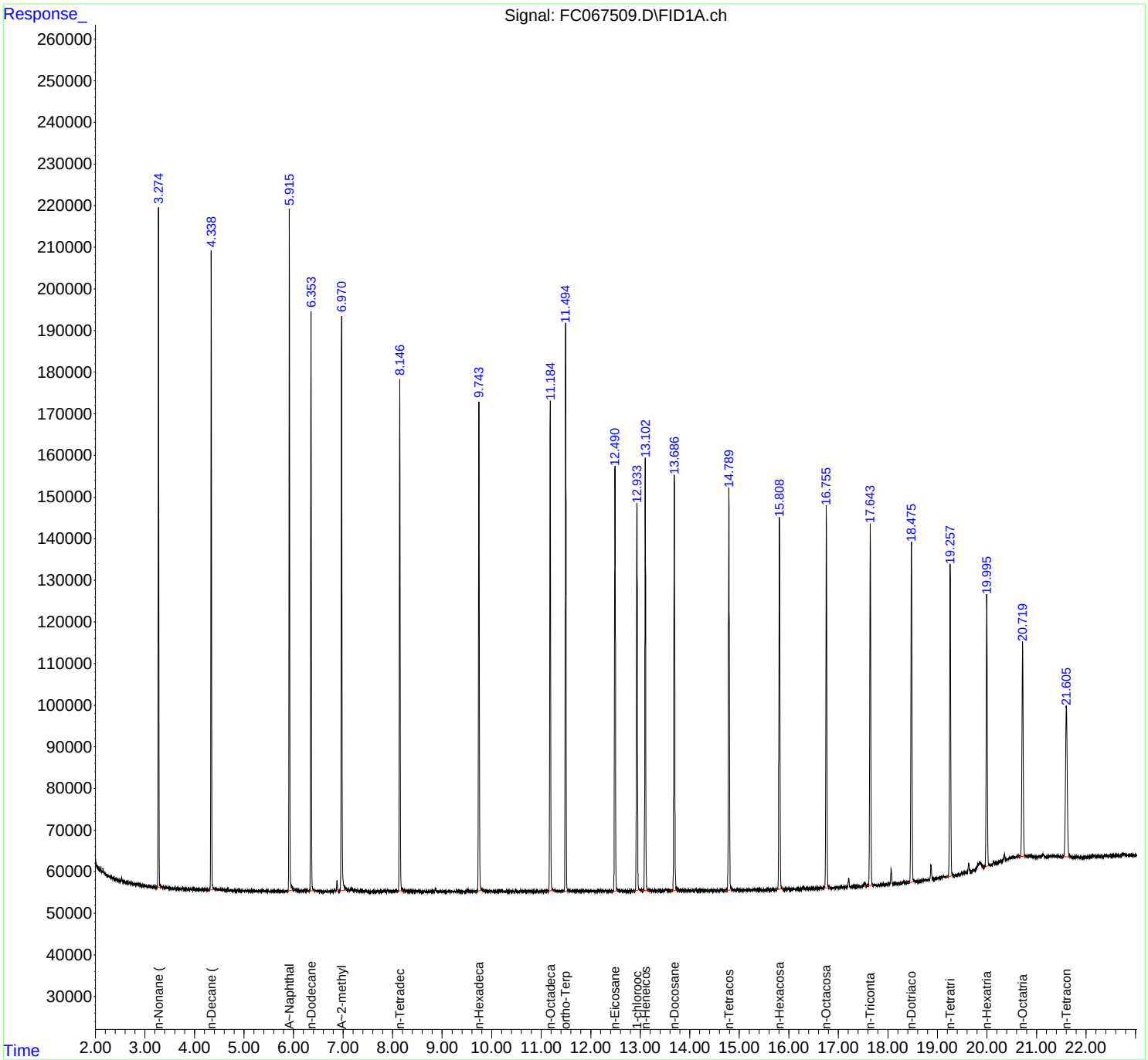
Quantitation Report (QT Reviewed)

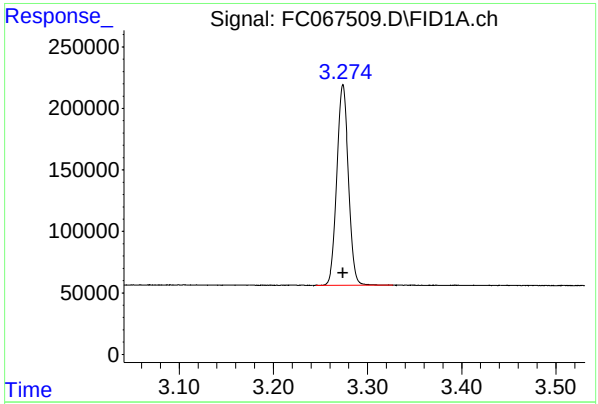
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC102324AL\
Data File : FC067509.D
Signal(s) : FID1A.ch
Acq On : 23 Oct 2024 17:02
Operator : YP/AJ
Sample : 10 PPM ALIPHATIC HC STD4
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
10 PPM ALIPHATIC HC STD4

Integration File: autoint1.e
Quant Time: Oct 23 17:42:18 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 17:42:09 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

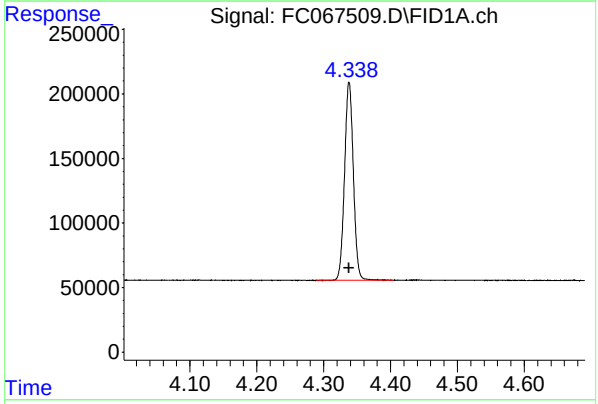




#1 n-Nonane (C9)

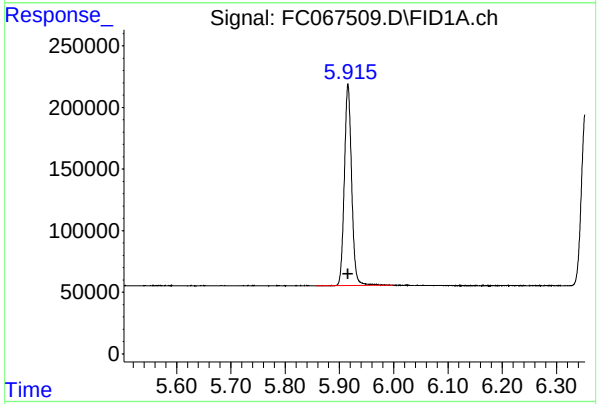
R.T.: 3.274 min
Delta R.T.: 0.000 min
Response: 1392325
Conc: 10.43 ug/ml

Instrument :
FID_C
ClientSampleId :
10 PPM ALIPHATIC HC STD4



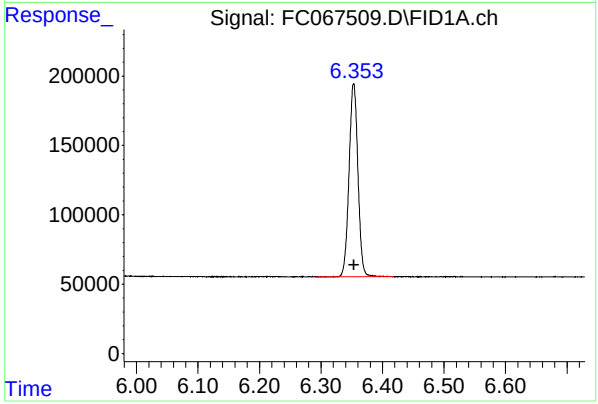
#2 n-Decane (C10)

R.T.: 4.338 min
Delta R.T.: 0.000 min
Response: 1408883
Conc: 10.42 ug/ml



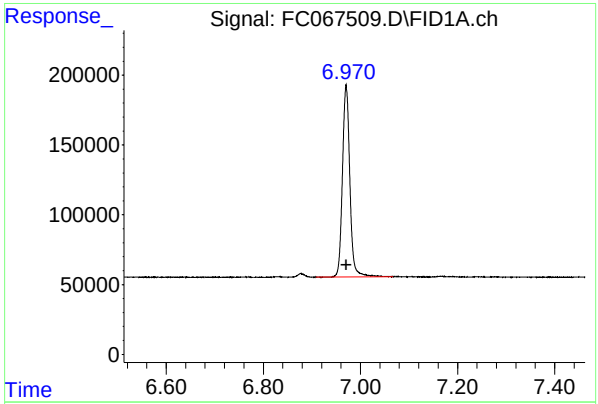
#3 A~Naphthalene (C11.7)

R.T.: 5.916 min
Delta R.T.: 0.000 min
Response: 1523229
Conc: 10.32 ug/ml



#4 n-Dodecane (C12)

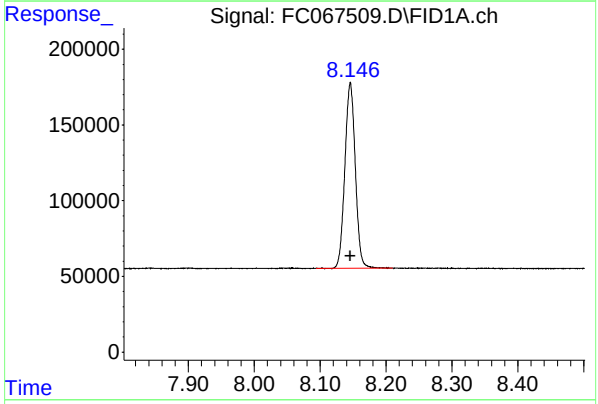
R.T.: 6.353 min
Delta R.T.: 0.000 min
Response: 1397121
Conc: 10.40 ug/ml



#5 A~2-methylnaphthalene (C12.89)

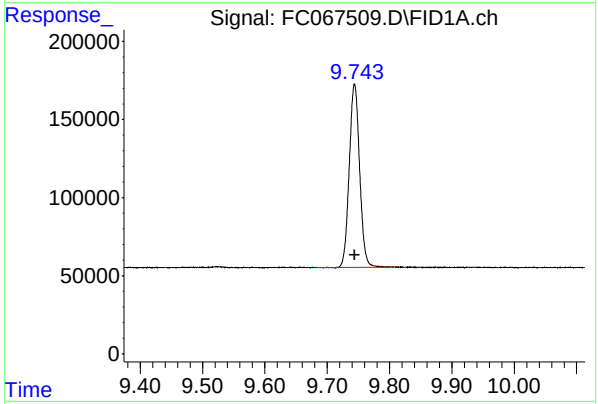
R.T.: 6.971 min
Delta R.T.: 0.000 min
Response: 1445653
Conc: 10.25 ug/ml

Instrument :
FID_C
ClientSampleId :
10 PPM ALIPHATIC HC STD4



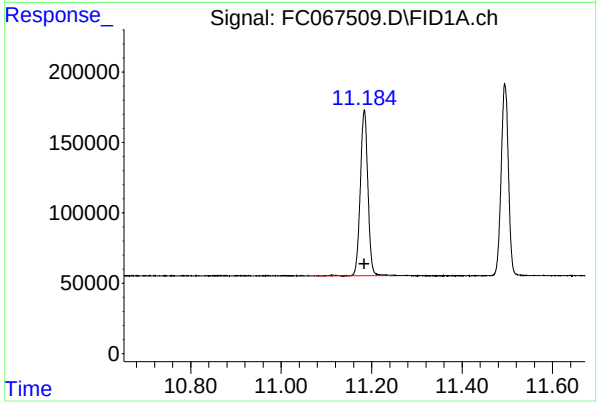
#6 n-Tetradecane (C14)

R.T.: 8.146 min
Delta R.T.: 0.000 min
Response: 1348794
Conc: 10.36 ug/ml



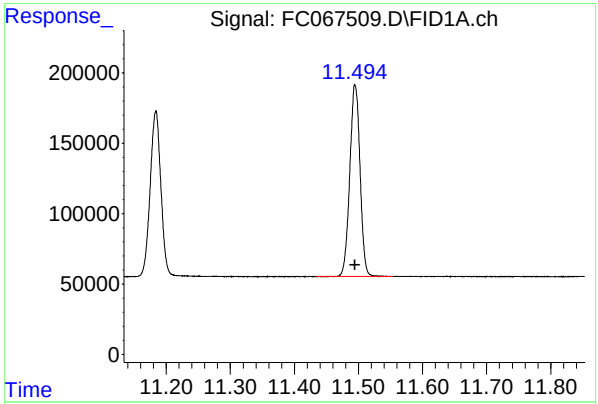
#7 n-Hexadecane (C16)

R.T.: 9.744 min
Delta R.T.: 0.000 min
Response: 1353251
Conc: 10.32 ug/ml



#8 n-Octadecane (C18)

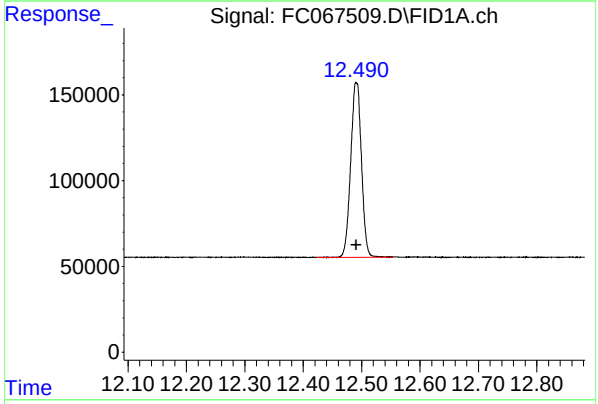
R.T.: 11.184 min
Delta R.T.: 0.000 min
Response: 1362847
Conc: 10.39 ug/ml



#9 ortho-Terphenyl (SURR)

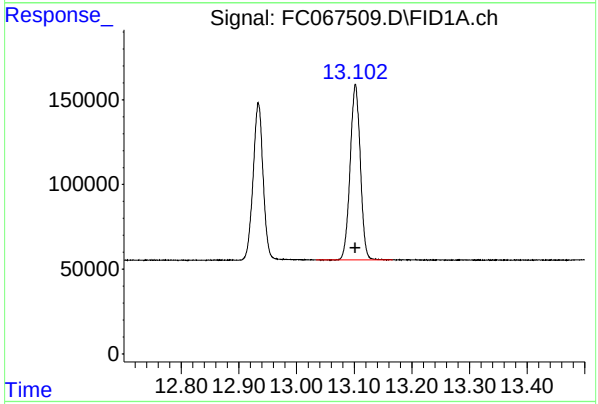
R.T.: 11.495 min
Delta R.T.: 0.000 min
Response: 1516253
Conc: 10.46 ug/ml

Instrument :
FID_C
ClientSampleId :
10 PPM ALIPHATIC HC STD4



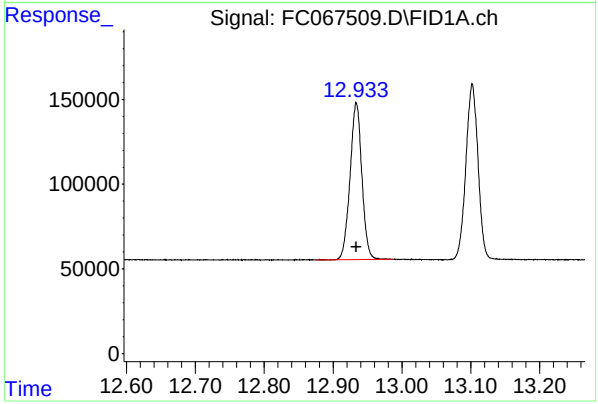
#10 n-Eicosane (C20)

R.T.: 12.491 min
Delta R.T.: 0.000 min
Response: 1299257
Conc: 10.41 ug/ml



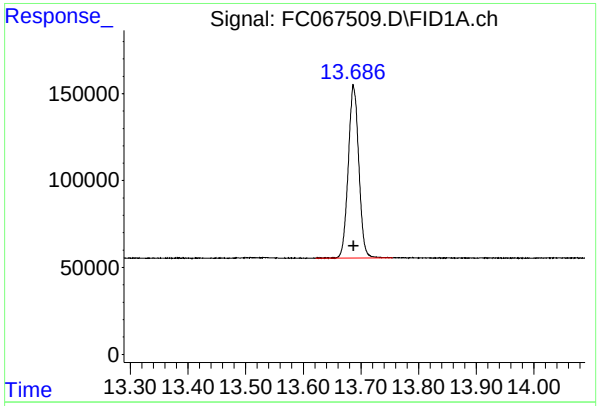
#11 n-Heneicosane (C21)

R.T.: 13.102 min
Delta R.T.: 0.000 min
Response: 1272574
Conc: 10.41 ug/ml



#12 1-chlorooctadecane (SURR)

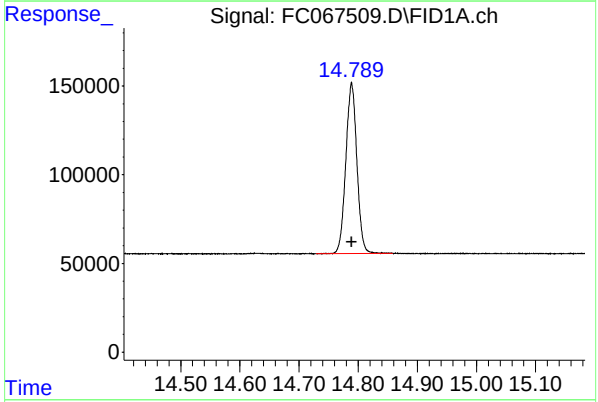
R.T.: 12.934 min
Delta R.T.: 0.000 min
Response: 1104370
Conc: 10.30 ug/ml



#13 n-Docosane (C22)

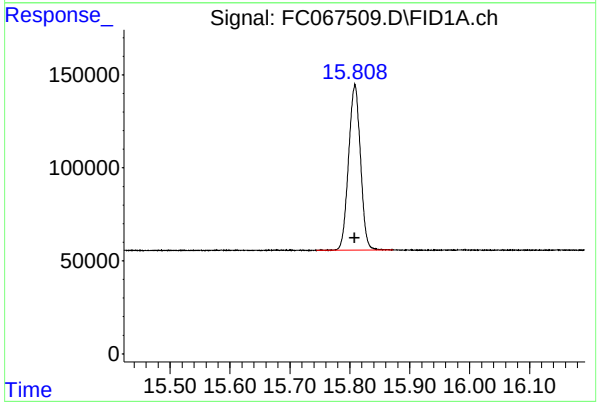
R.T.: 13.687 min
Delta R.T.: 0.000 min
Response: 1260218
Conc: 10.40 ug/ml

Instrument :
FID_C
ClientSampleId :
10 PPM ALIPHATIC HC STD4



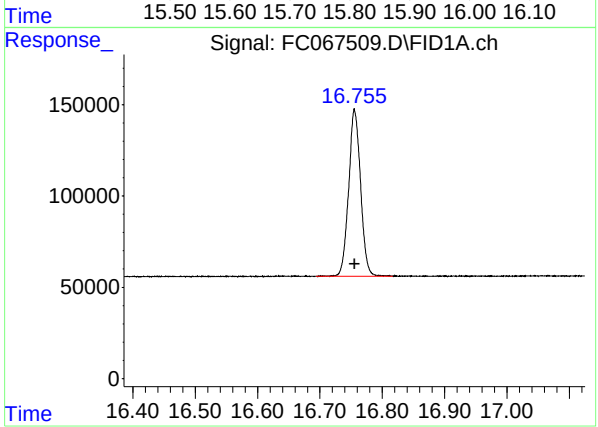
#14 n-Tetracosane (C24)

R.T.: 14.789 min
Delta R.T.: 0.000 min
Response: 1251574
Conc: 10.43 ug/ml



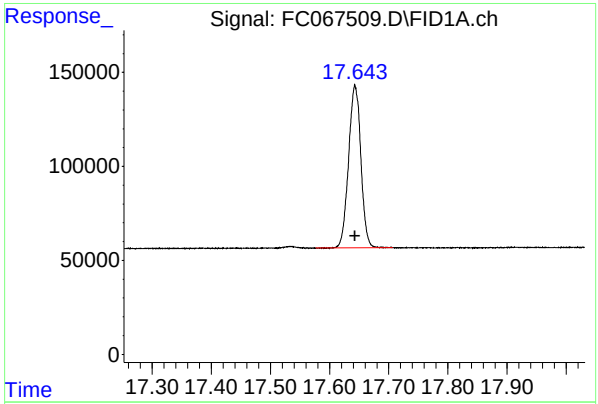
#15 n-Hexacosane (C26)

R.T.: 15.808 min
Delta R.T.: 0.000 min
Response: 1226594
Conc: 10.41 ug/ml



#16 n-Octacosane (C28)

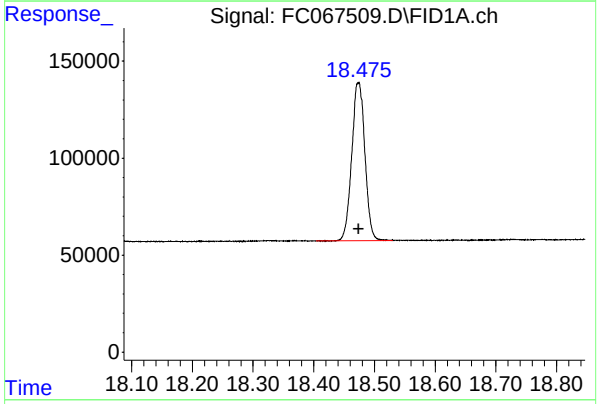
R.T.: 16.756 min
Delta R.T.: 0.000 min
Response: 1213286
Conc: 10.46 ug/ml



#17 n-Tricontane (C30)

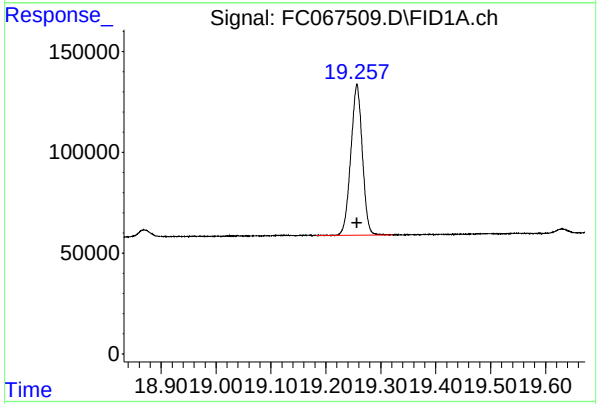
R.T.: 17.643 min
Delta R.T.: 0.000 min
Response: 1249088
Conc: 10.57 ug/ml

Instrument :
FID_C
ClientSampleId :
10 PPM ALIPHATIC HC STD4



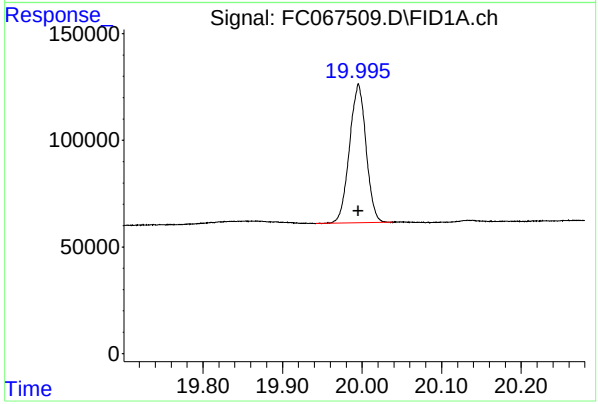
#18 n-Dotriacontane (C32)

R.T.: 18.474 min
Delta R.T.: 0.000 min
Response: 1225099
Conc: 10.67 ug/ml



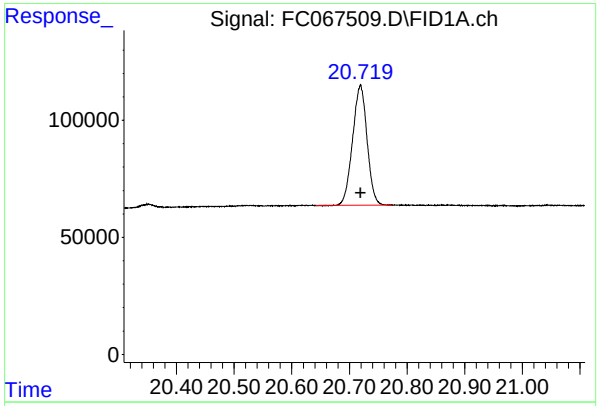
#19 n-Tetratriacontane (C34)

R.T.: 19.257 min
Delta R.T.: 0.000 min
Response: 1087201
Conc: 10.64 ug/ml



#20 n-Hexatriacontane (C36)

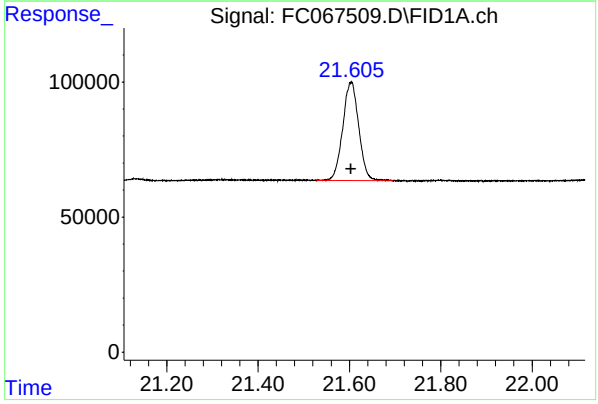
R.T.: 19.995 min
Delta R.T.: 0.000 min
Response: 941330
Conc: 10.53 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 20.719 min
Delta R.T.: 0.000 min
Response: 898154
Conc: 10.53 ug/ml

Instrument :
FID_C
ClientSampleId :
10 PPM ALIPHATIC HC STD4



#22 n-Tetracontane (C40)

R.T.: 21.604 min
Delta R.T.: 0.000 min
Response: 882650
Conc: 10.52 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC102324AL\
Data File : FC067509.D
Signal(s) : FID1A.ch
Acq On : 23 Oct 2024 17:02
Sample : 10 PPM ALIPHATIC HC STD4
Misc :
ALS Vial : 14 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 102324.M
Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.274	3.245	3.327	BB	163023	1392325	91.41%	5.034%
2	4.338	4.289	4.404	BB	153448	1408883	92.49%	5.094%
3	5.916	5.857	5.999	BB	163420	1523229	100.00%	5.507%
4	6.353	6.292	6.417	BB	139335	1397121	91.72%	5.051%
5	6.971	6.909	7.067	BB	137359	1445653	94.91%	5.227%
6	8.146	8.094	8.210	BB	122199	1348794	88.55%	4.876%
7	9.744	9.682	9.805	BB	117477	1353251	88.84%	4.892%
8	11.184	11.077	11.247	BB	117457	1362847	89.47%	4.927%
9	11.495	11.434	11.554	BB	135385	1516253	99.54%	5.482%
10	12.491	12.422	12.554	BB	101975	1299257	85.30%	4.697%
11	12.934	12.875	12.987	BB	92846	1104370	72.50%	3.993%
12	13.102	13.034	13.167	BB	103848	1272574	83.54%	4.601%
13	13.687	13.622	13.755	BB	98770	1260218	82.73%	4.556%
14	14.789	14.729	14.859	BB	96250	1251574	82.17%	4.525%
15	15.808	15.744	15.872	BB	89337	1226594	80.53%	4.435%
16	16.756	16.694	16.817	BB	91173	1213286	79.65%	4.386%
17	17.643	17.577	17.707	BB	85908	1249088	82.00%	4.516%
18	18.474	18.404	18.530	BB	81392	1225099	80.43%	4.429%
19	19.257	19.182	19.322	BB	75084	1087201	71.37%	3.931%
20	19.995	19.942	20.039	BB	65222	941330	61.80%	3.403%
21	20.719	20.642	20.775	BB	51277	898154	58.96%	3.247%
22	21.604	21.527	21.695	BB	35971	882650	57.95%	3.191%
			Sum of corrected areas:			27659751		

Aliphatic EPH 102324.M Wed Oct 23 18:21:58 2024

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

Lab Sample ID:	5 PPM ALIPHATIC HC S	Acq On:	23 Oct 2024 17:38
Client Sample ID:		Operator:	YP/AJ
Data file:	FC067510.D	Misc:	
Instrument:	FID_C	ALS Vial:	15
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aliphatic C9-C12	3.174	6.454	2101198.000	15.000	ug/ml
Aliphatic C12-C16	6.455	9.845	1358541.000	10.000	ug/ml
Aliphatic C16-C21	9.846	13.203	1979840.000	15.000	ug/ml
Aliphatic C21-C28	13.204	16.858	2510279.000	20.000	ug/ml
Aliphatic C28-C40	16.859	21.704	3289360.000	30.000	ug/ml
Aliphatic EPH	3.174		11239218.000	90.000	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC102324AL\
Data File : FC067510.D
Signal(s) : FID1A.ch
Acq On : 23 Oct 2024 17:38
Operator : YP/AJ
Sample : 5 PPM ALIPHATIC HC STD5
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
5 PPM ALIPHATIC HC STD5

Integration File: autoint1.e
Quant Time: Oct 23 18:12:12 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 18:12:02 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)	11.494	768220	5.236 ug/ml
Spiked Amount	50.000		Recovery =	10.47%
12)	S 1-chlorooctadecane (S...	12.933	555182	5.141 ug/ml
Spiked Amount	50.000		Recovery =	10.28%
	Target Compounds			
1)	T n-Nonane (C9)	3.275	697792	5.180 ug/ml
2)	T n-Decane (C10)	4.339	703136	5.161 ug/ml
3)	T A~Naphthalene (C11.7)	5.917	752949	5.081 ug/ml
4)	T n-Dodecane (C12)	6.354	700270	5.170 ug/ml
5)	T A~2-methylnaphthalene...	6.971	709834	5.026 ug/ml
6)	T n-Tetradecane (C14)	8.146	678328	5.168 ug/ml
7)	T n-Hexadecane (C16)	9.744	680213	5.149 ug/ml
8)	T n-Octadecane (C18)	11.184	680709	5.152 ug/ml
10)	T n-Eicosane (C20)	12.491	658066	5.215 ug/ml
11)	T n-Heneicosane (C21)	13.102	641065	5.194 ug/ml
13)	T n-Docosane (C22)	13.687	638712	5.216 ug/ml
14)	T n-Tetracosane (C24)	14.789	629495	5.193 ug/ml
15)	T n-Hexacosane (C26)	15.808	620443	5.211 ug/ml
16)	T n-Octacosane (C28)	16.758	621629	5.284 ug/ml
17)	T n-Tricontane (C30)	17.643	658247	5.446 ug/ml
18)	T n-Dotriacontane (C32)	18.474	660916	5.586 ug/ml
19)	T n-Tetratriacontane (C34)	19.256	574804	5.489 ug/ml
20)	T n-Hexatriacontane (C36)	19.994	488556	5.367 ug/ml
21)	T n-Octatriacontane (C38)	20.718	459107	5.301 ug/ml
22)	T n-Tetracontane (C40)	21.603	447730	5.267 ug/ml

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

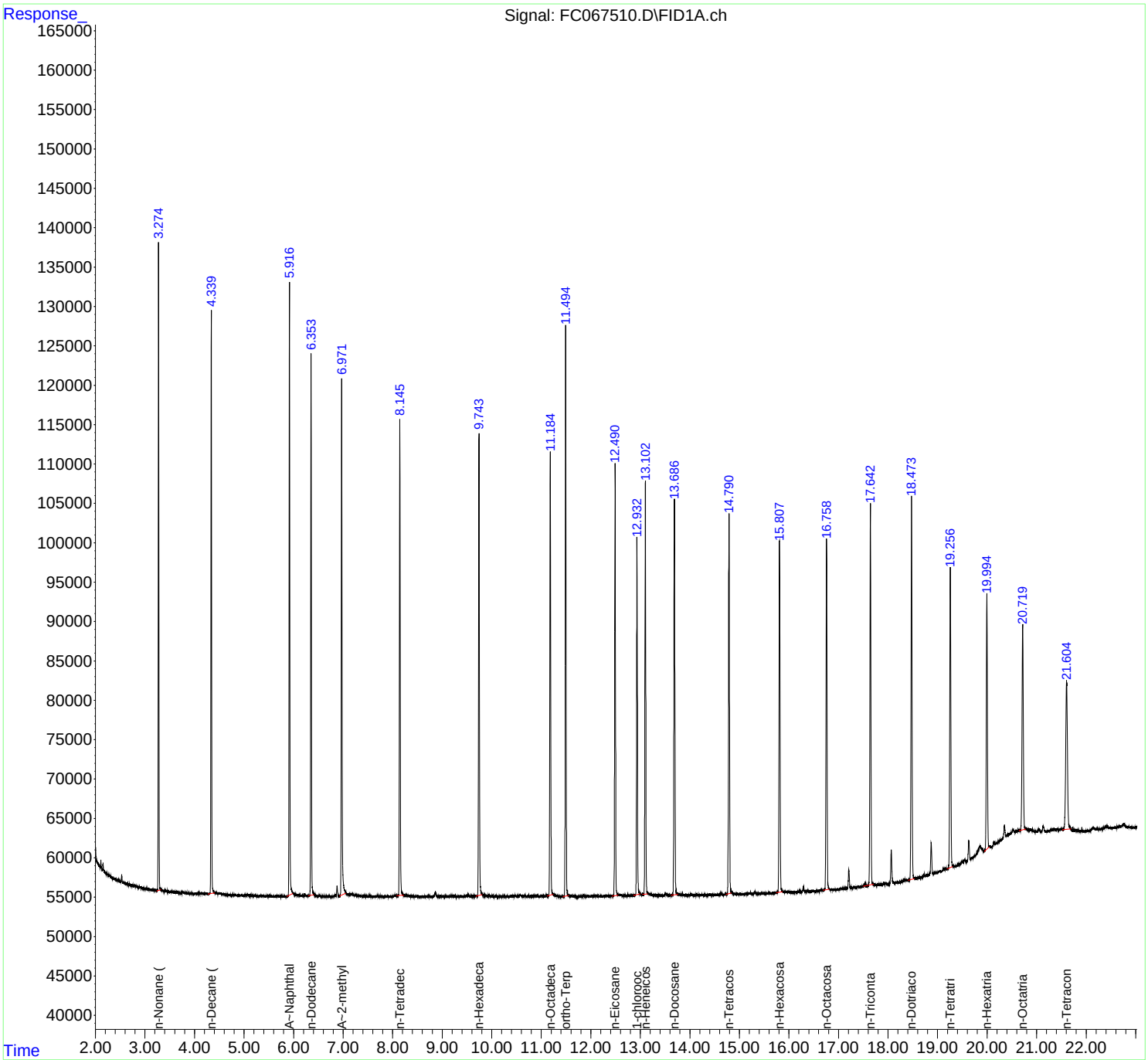
Quantitation Report (QT Reviewed)

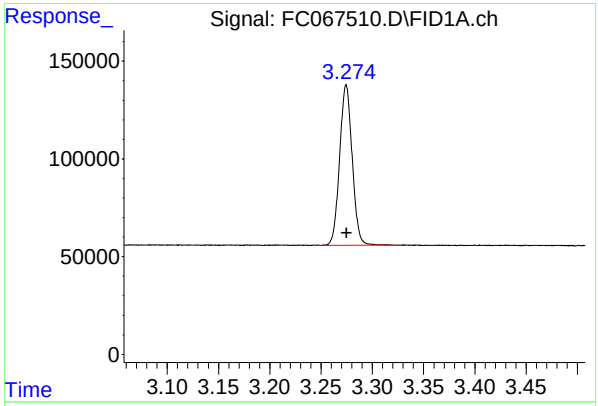
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC102324AL\
Data File : FC067510.D
Signal(s) : FID1A.ch
Acq On : 23 Oct 2024 17:38
Operator : YP/AJ
Sample : 5 PPM ALIPHATIC HC STD5
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
5 PPM ALIPHATIC HC STD5

Integration File: autoint1.e
Quant Time: Oct 23 18:12:12 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 18:12:02 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

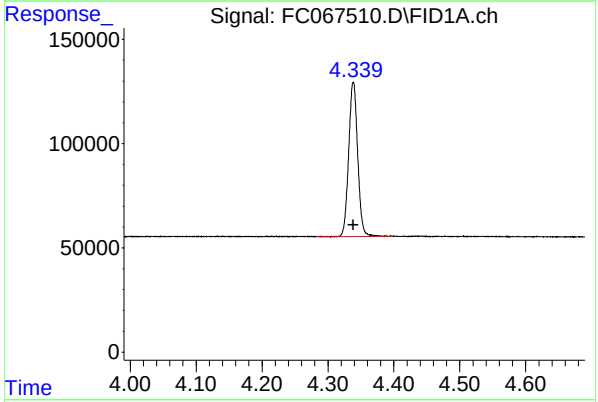




#1 n-Nonane (C9)

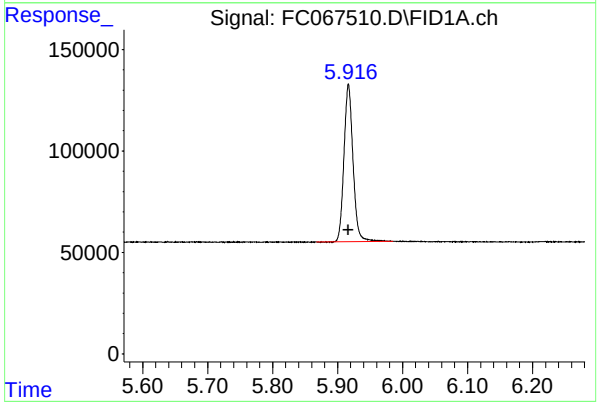
R.T.: 3.275 min
Delta R.T.: 0.000 min
Response: 697792
Conc: 5.18 ug/ml

Instrument :
FID_C
ClientSampleId :
5 PPM ALIPHATIC HC STD5



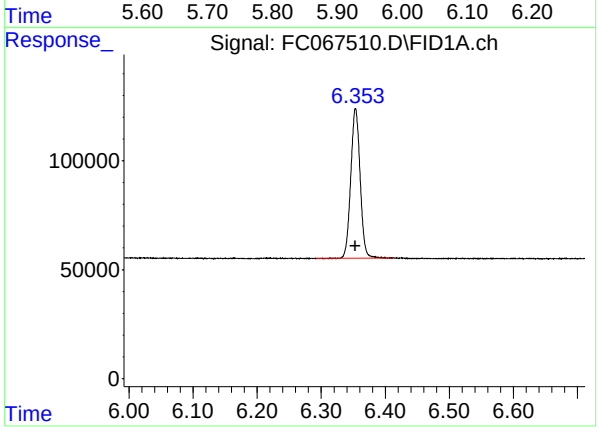
#2 n-Decane (C10)

R.T.: 4.339 min
Delta R.T.: 0.000 min
Response: 703136
Conc: 5.16 ug/ml



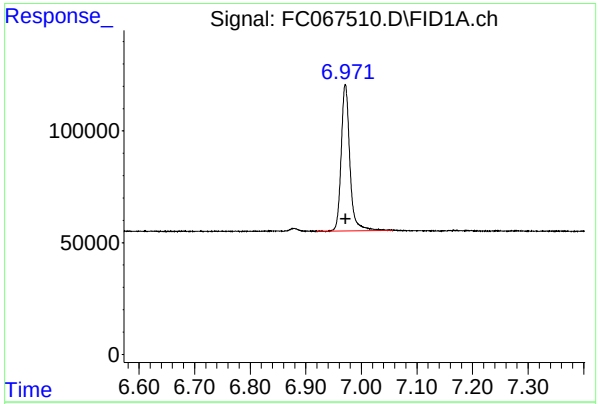
#3 A~Naphthalene (C11.7)

R.T.: 5.917 min
Delta R.T.: 0.000 min
Response: 752949
Conc: 5.08 ug/ml



#4 n-Dodecane (C12)

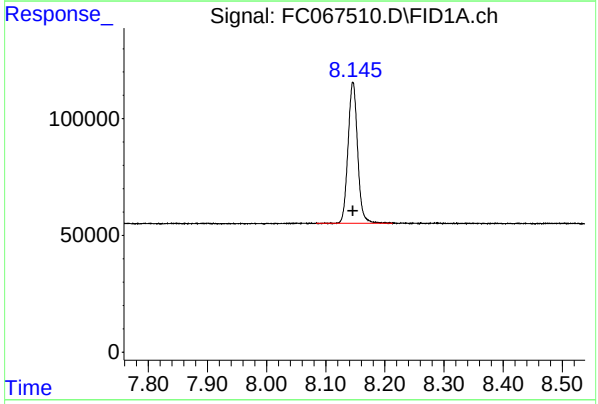
R.T.: 6.354 min
Delta R.T.: 0.000 min
Response: 700270
Conc: 5.17 ug/ml



#5 A~2-methylnaphthalene (C12.89)

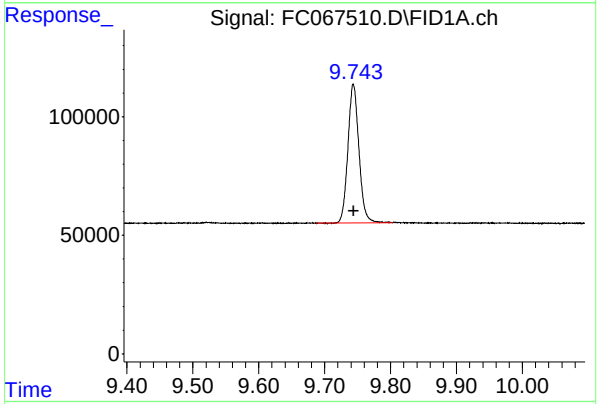
R.T.: 6.971 min
Delta R.T.: 0.000 min
Response: 709834
Conc: 5.03 ug/ml

Instrument :
FID_C
ClientSampleId :
5 PPM ALIPHATIC HC STD5



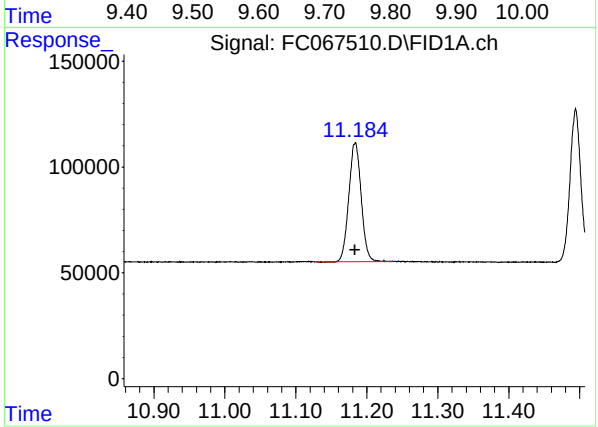
#6 n-Tetradecane (C14)

R.T.: 8.146 min
Delta R.T.: 0.000 min
Response: 678328
Conc: 5.17 ug/ml



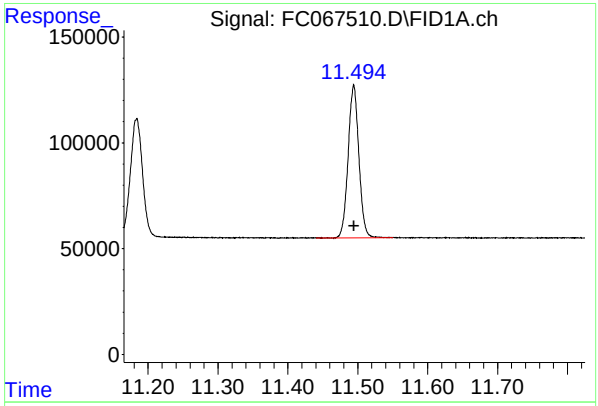
#7 n-Hexadecane (C16)

R.T.: 9.744 min
Delta R.T.: 0.000 min
Response: 680213
Conc: 5.15 ug/ml



#8 n-Octadecane (C18)

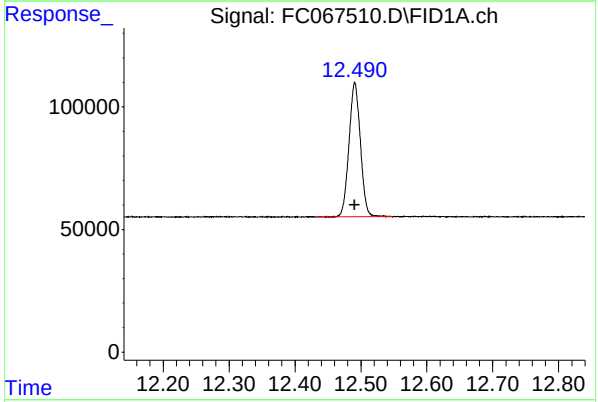
R.T.: 11.184 min
Delta R.T.: 0.000 min
Response: 680709
Conc: 5.15 ug/ml



#9 ortho-Terphenyl (SURR)

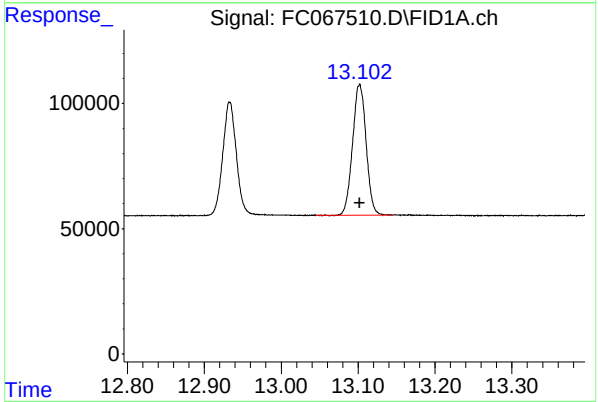
R.T.: 11.494 min
Delta R.T.: 0.000 min
Response: 768220
Conc: 5.24 ug/ml

Instrument :
FID_C
ClientSampleId :
5 PPM ALIPHATIC HC STD5



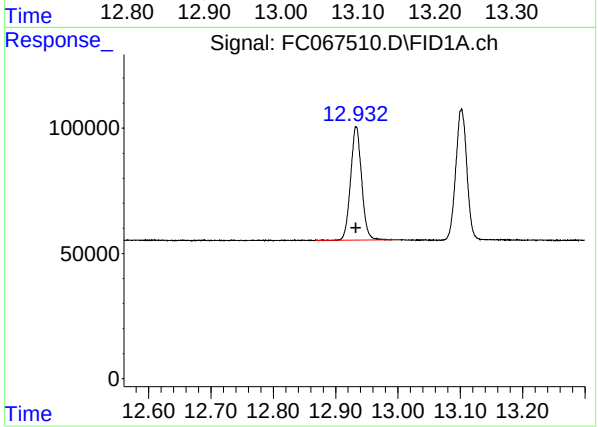
#10 n-Eicosane (C20)

R.T.: 12.491 min
Delta R.T.: 0.000 min
Response: 658066
Conc: 5.22 ug/ml



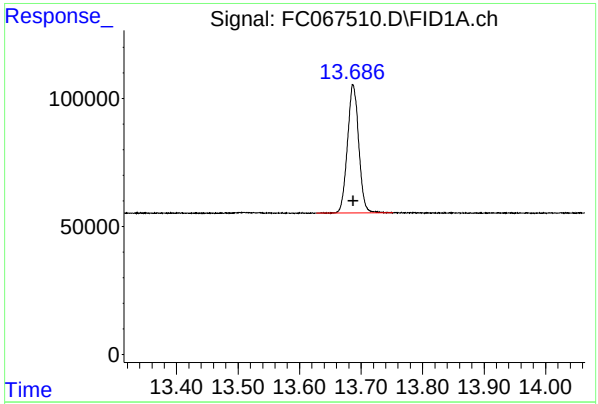
#11 n-Heneicosane (C21)

R.T.: 13.102 min
Delta R.T.: 0.000 min
Response: 641065
Conc: 5.19 ug/ml



#12 1-chlorooctadecane (SURR)

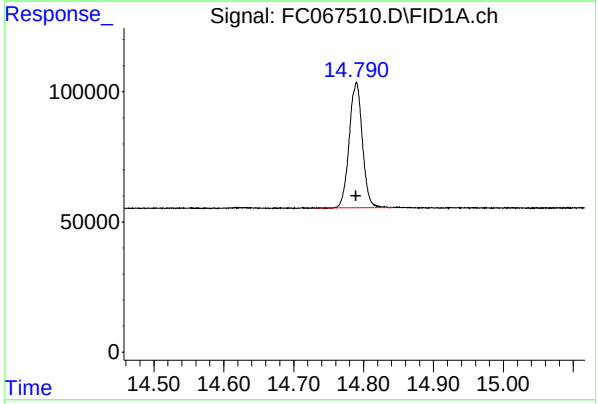
R.T.: 12.933 min
Delta R.T.: 0.000 min
Response: 555182
Conc: 5.14 ug/ml



#13 n-Docosane (C22)

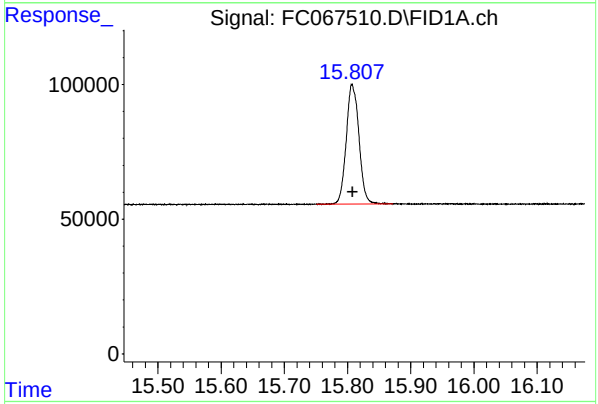
R.T.: 13.687 min
Delta R.T.: 0.000 min
Response: 638712
Conc: 5.22 ug/ml

Instrument :
FID_C
ClientSampleId :
5 PPM ALIPHATIC HC STD5



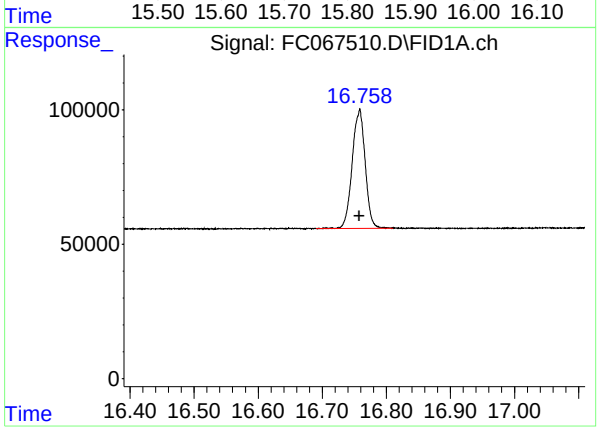
#14 n-Tetracosane (C24)

R.T.: 14.789 min
Delta R.T.: 0.000 min
Response: 629495
Conc: 5.19 ug/ml



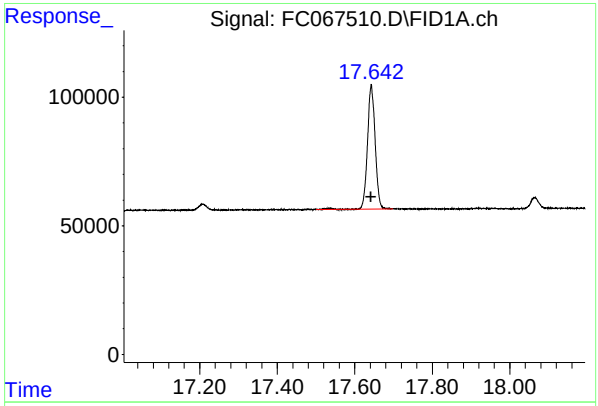
#15 n-Hexacosane (C26)

R.T.: 15.808 min
Delta R.T.: 0.000 min
Response: 620443
Conc: 5.21 ug/ml



#16 n-Octacosane (C28)

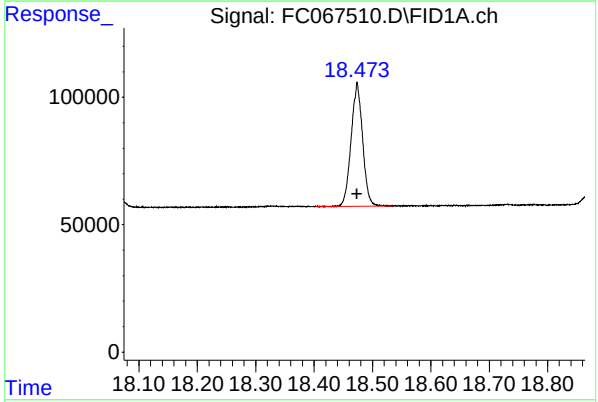
R.T.: 16.758 min
Delta R.T.: 0.000 min
Response: 621629
Conc: 5.28 ug/ml



#17 n-Tricontane (C30)

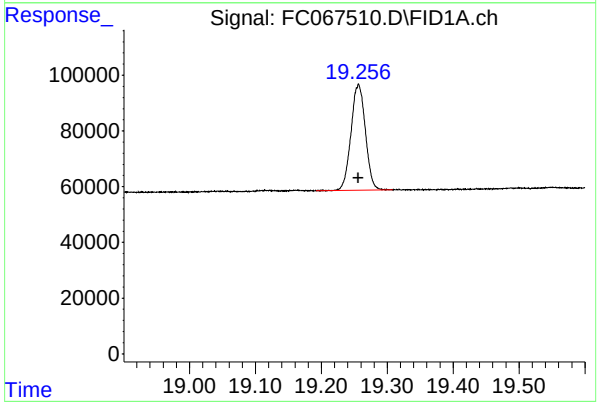
R.T.: 17.643 min
Delta R.T.: 0.000 min
Response: 658247
Conc: 5.45 ug/ml

Instrument :
FID_C
ClientSampleId :
5 PPM ALIPHATIC HC STD5



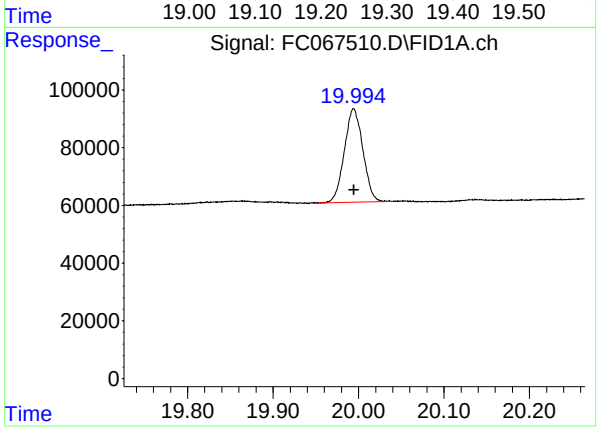
#18 n-Dotriacontane (C32)

R.T.: 18.474 min
Delta R.T.: 0.000 min
Response: 660916
Conc: 5.59 ug/ml



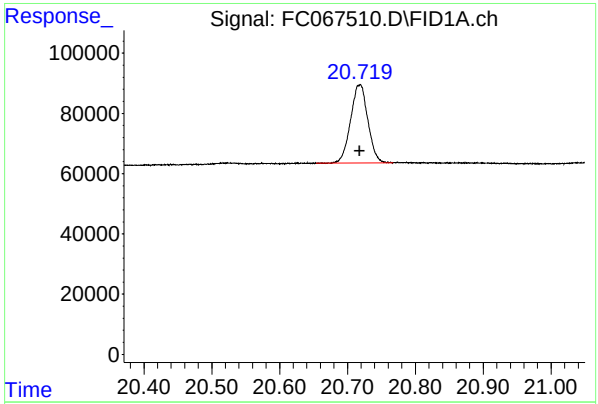
#19 n-Tetratriacontane (C34)

R.T.: 19.256 min
Delta R.T.: 0.000 min
Response: 574804
Conc: 5.49 ug/ml



#20 n-Hexatriacontane (C36)

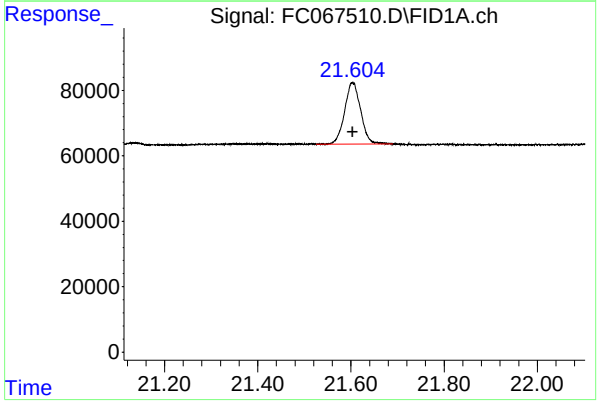
R.T.: 19.994 min
Delta R.T.: 0.000 min
Response: 488556
Conc: 5.37 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 20.718 min
Delta R.T.: 0.000 min
Response: 459107
Conc: 5.30 ug/ml

Instrument :
FID_C
ClientSampleId :
5 PPM ALIPHATIC HC STD5



#22 n-Tetracontane (C40)

R.T.: 21.603 min
Delta R.T.: 0.000 min
Response: 447730
Conc: 5.27 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC102324AL\
Data File : FC067510.D
Signal(s) : FID1A.ch
Acq On : 23 Oct 2024 17:38
Sample : 5 PPM ALIPHATIC HC STD5
Misc :
ALS Vial : 15 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 102324.M
Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.275	3.245	3.320	BB	82274	697792	90.83%	4.975%
2	4.339	4.282	4.399	BB	74065	703136	91.53%	5.013%
3	5.917	5.867	5.985	BB	77688	752949	98.01%	5.368%
4	6.354	6.292	6.412	BB	68794	700270	91.15%	4.993%
5	6.971	6.919	7.057	BB	65640	709834	92.40%	5.061%
6	8.146	8.084	8.214	BB	60655	678328	88.30%	4.836%
7	9.744	9.687	9.804	BB	58521	680213	88.54%	4.850%
8	11.184	11.129	11.237	BB	55995	680709	88.61%	4.853%
9	11.494	11.440	11.550	BB	71976	768220	100.00%	5.477%
10	12.491	12.432	12.549	BB	54755	658066	85.66%	4.692%
11	12.933	12.869	12.992	BB	45156	555182	72.27%	3.958%
12	13.102	13.045	13.145	BB	52087	641065	83.45%	4.571%
13	13.687	13.627	13.752	BB	50083	638712	83.14%	4.554%
14	14.789	14.732	14.842	BB	47789	629495	81.94%	4.488%
15	15.808	15.750	15.872	BB	43825	620443	80.76%	4.424%
16	16.758	16.690	16.810	BB	44656	621629	80.92%	4.432%
17	17.643	17.500	17.699	BB	47945	658247	85.68%	4.693%
18	18.474	18.404	18.535	BB	48459	660916	86.03%	4.712%
19	19.256	19.192	19.309	BB	38187	574804	74.82%	4.098%
20	19.994	19.950	20.040	BB	32420	488556	63.60%	3.483%
21	20.718	20.654	20.767	BB	25975	459107	59.76%	3.273%
22	21.603	21.525	21.690	BB	18849	447730	58.28%	3.192%
			Sum of corrected areas:			14025400		

Aliphatic EPH 102324.M Wed Oct 23 18:22:16 2024

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

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	20 PPM ALIPHATIC HC S'	Acq On:	23 Oct 2024 18:14
Client Sample ID:	20 PPM ALIPHATIC HC S'	Operator:	YP/AJ
Data file:	FC067511.D	Misc:	
Instrument:	FID_C	ALS Vial:	16
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.174	6.454	10797590	79.705	300	ug/ml
Aliphatic C12-C16	6.455	9.845	7916730	60.12	200	ug/ml
Aliphatic C16-C21	9.846	13.203	7473858	58.741	300	ug/ml
Aliphatic C21-C28	13.204	16.858	9383684	78.139	400	ug/ml
Aliphatic C28-C40	16.859	21.704	11843339	117.153	600	ug/ml
Aliphatic EPH	3.174	21.704	47415201	393.857		ug/ml
ortho-Terphenyl (SURR)	11.496	11.496	2853188	19.44		ug/ml
1-chlorooctadecane (SURR)	12.935	12.935	2112213	19.56		ug/ml
Aliphatic C9-C28	3.174	16.858	35571862	276.705	1200	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC102324AL\
Data File : FC067511.D
Signal(s) : FID1A.ch
Acq On : 23 Oct 2024 18:14
Operator : YP/AJ
Sample : 20 PPM ALIPHATIC HC STD ICV
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV

Integration File: autoint1.e
Quant Time: Oct 23 18:51:58 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 18:12:58 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)	11.496	2853188	19.445 ug/ml
Spiked Amount	50.000		Recovery =	38.89%
12)	S 1-chlorooctadecane (S...	12.935	2112213	19.560 ug/ml
Spiked Amount	50.000		Recovery =	39.12%
	Target Compounds			
1)	T n-Nonane (C9)	3.274	2613683	19.401 ug/ml
2)	T n-Decane (C10)	4.339	2649286	19.445 ug/ml
3)	T A~Naphthalene (C11.7)	5.916	2894144	19.530 ug/ml
4)	T n-Dodecane (C12)	6.354	2640477	19.495 ug/ml
5)	T A~2-methylnaphthalene...	6.971	2771002	19.622 ug/ml
6)	T n-Tetradecane (C14)	8.147	2559793	19.502 ug/ml
7)	T n-Hexadecane (C16)	9.744	2585935	19.575 ug/ml
8)	T n-Octadecane (C18)	11.185	2593351	19.630 ug/ml
10)	T n-Eicosane (C20)	12.493	2466507	19.548 ug/ml
11)	T n-Heneicosane (C21)	13.103	2414000	19.560 ug/ml
13)	T n-Docosane (C22)	13.688	2390568	19.523 ug/ml
14)	T n-Tetracosane (C24)	14.790	2369147	19.546 ug/ml
15)	T n-Hexacosane (C26)	15.809	2326770	19.544 ug/ml
16)	T n-Octacosane (C28)	16.757	2297199	19.526 ug/ml
17)	T n-Tricontane (C30)	17.643	2353840	19.474 ug/ml
18)	T n-Dotriacontane (C32)	18.474	2301371	19.450 ug/ml
19)	T n-Tetratriacontane (C34)	19.258	2044186	19.519 ug/ml
20)	T n-Hexatriacontane (C36)	19.996	1784212	19.601 ug/ml
21)	T n-Octatriacontane (C38)	20.719	1698313	19.610 ug/ml
22)	T n-Tetracontane (C40)	21.604	1661417	19.544 ug/ml

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

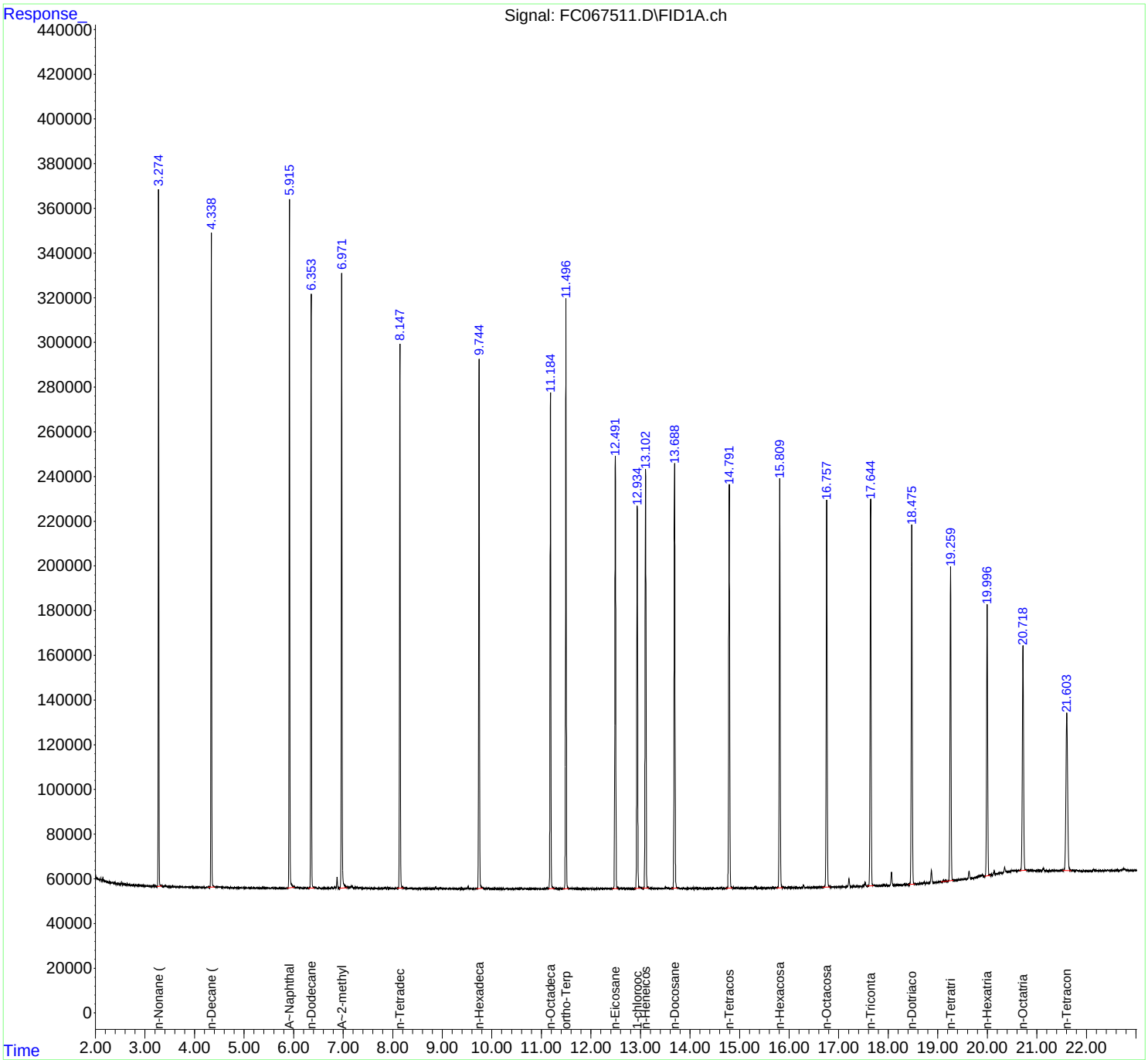
Quantitation Report (QT Reviewed)

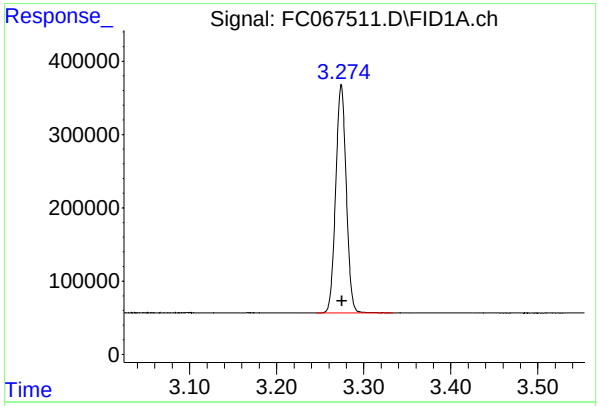
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC102324AL\
Data File : FC067511.D
Signal(s) : FID1A.ch
Acq On : 23 Oct 2024 18:14
Operator : YP/AJ
Sample : 20 PPM ALIPHATIC HC STD ICV
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV

Integration File: autoint1.e
Quant Time: Oct 23 18:51:58 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 18:12:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

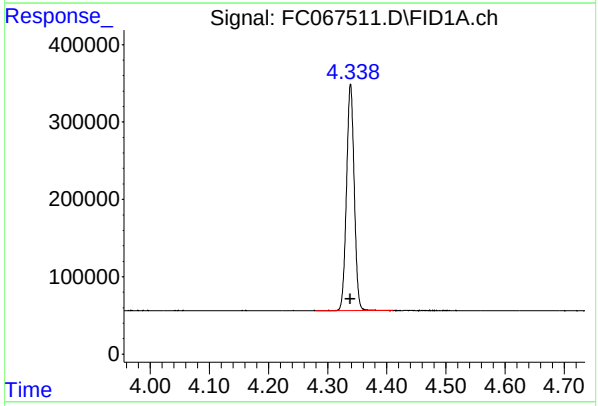




#1 n-Nonane (C9)

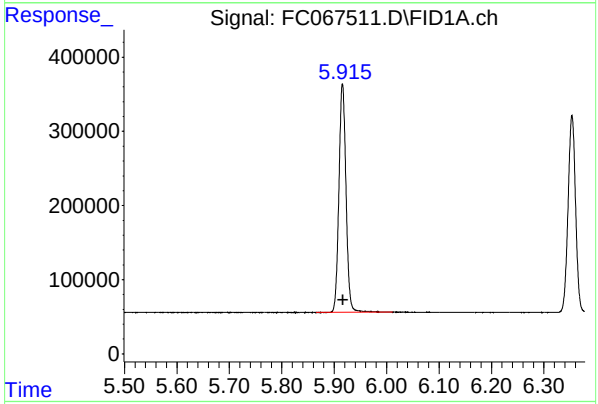
R.T.: 3.274 min
Delta R.T.: 0.000 min
Response: 2613683
Conc: 19.40 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV



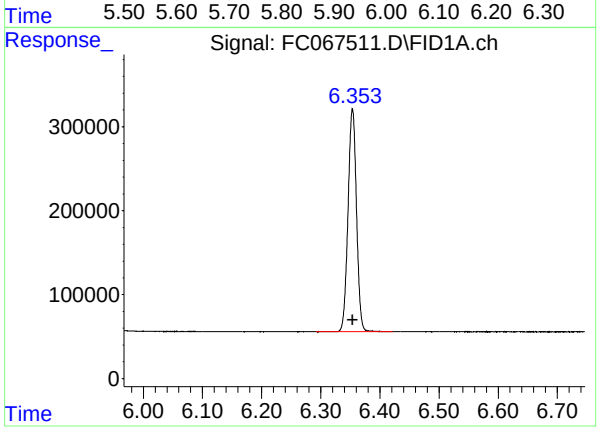
#2 n-Decane (C10)

R.T.: 4.339 min
Delta R.T.: 0.000 min
Response: 2649286
Conc: 19.44 ug/ml



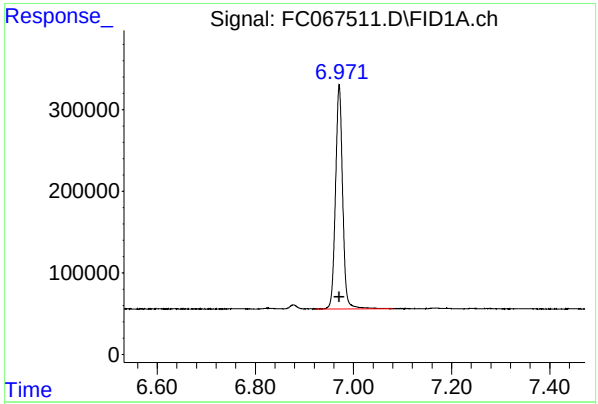
#3 A~Naphthalene (C11.7)

R.T.: 5.916 min
Delta R.T.: 0.000 min
Response: 2894144
Conc: 19.53 ug/ml



#4 n-Dodecane (C12)

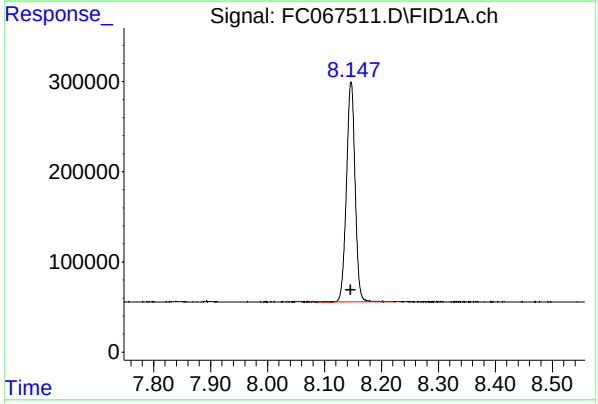
R.T.: 6.354 min
Delta R.T.: 0.000 min
Response: 2640477
Conc: 19.50 ug/ml



#5 A~2-methylnaphthalene (C12.89)

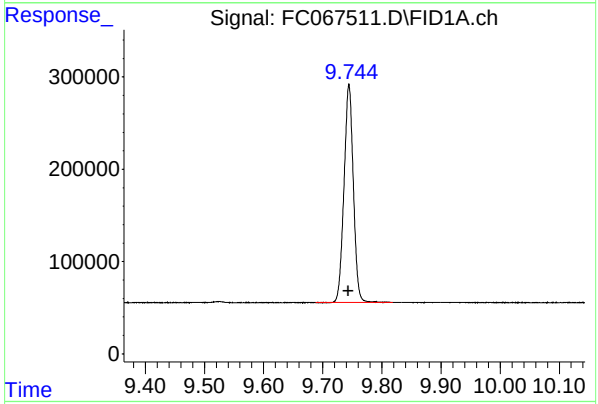
R.T.: 6.971 min
Delta R.T.: 0.000 min
Response: 2771002
Conc: 19.62 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV



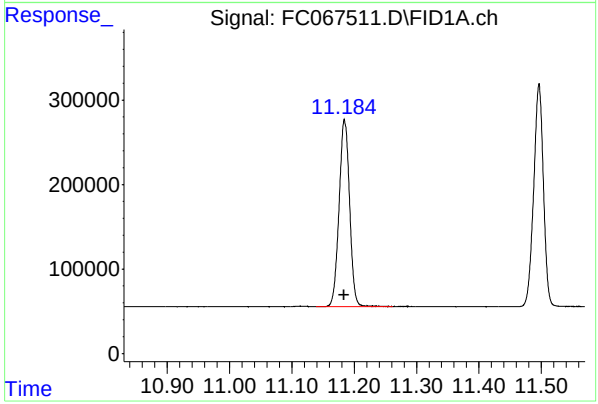
#6 n-Tetradecane (C14)

R.T.: 8.147 min
Delta R.T.: 0.000 min
Response: 2559793
Conc: 19.50 ug/ml



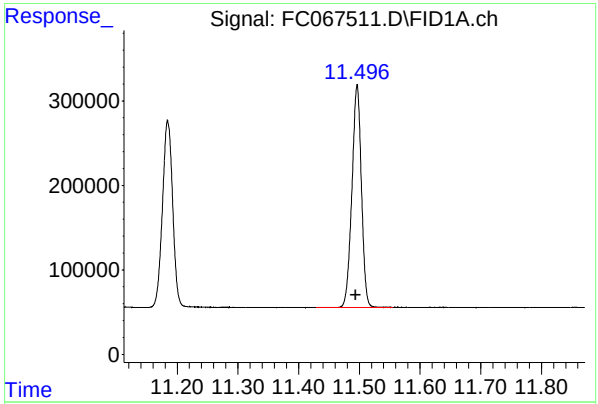
#7 n-Hexadecane (C16)

R.T.: 9.744 min
Delta R.T.: 0.000 min
Response: 2585935
Conc: 19.58 ug/ml



#8 n-Octadecane (C18)

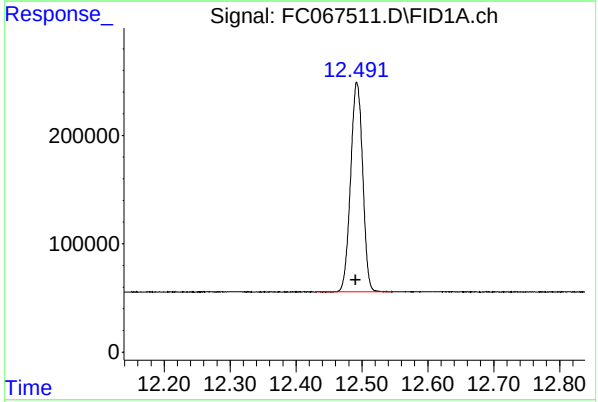
R.T.: 11.185 min
Delta R.T.: 0.000 min
Response: 2593351
Conc: 19.63 ug/ml



#9 ortho-Terphenyl (SURR)

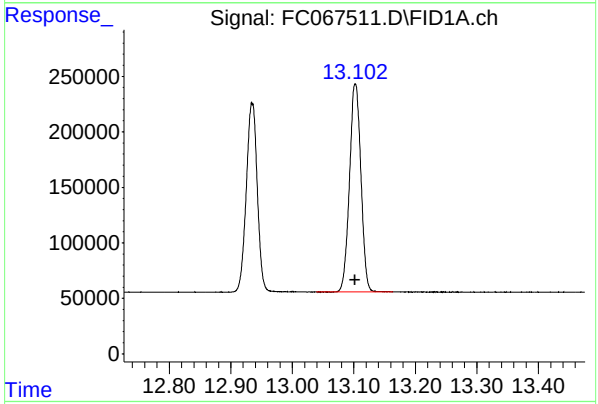
R.T.: 11.496 min
Delta R.T.: 0.002 min
Response: 2853188
Conc: 19.44 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV



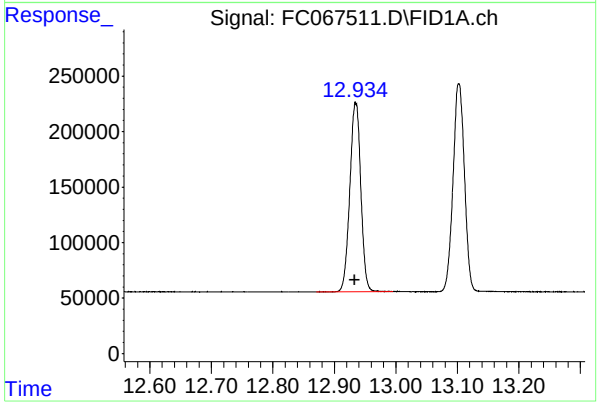
#10 n-Eicosane (C20)

R.T.: 12.493 min
Delta R.T.: 0.002 min
Response: 2466507
Conc: 19.55 ug/ml



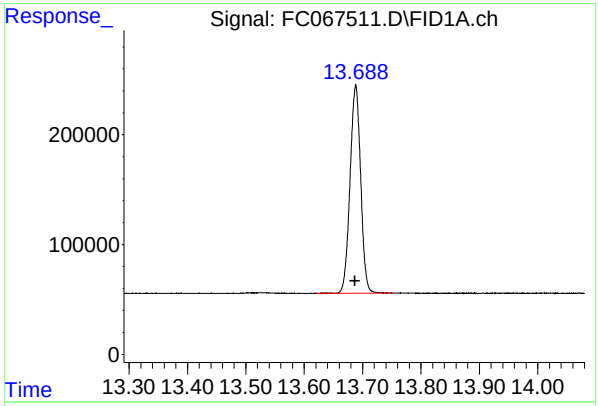
#11 n-Heneicosane (C21)

R.T.: 13.103 min
Delta R.T.: 0.000 min
Response: 2414000
Conc: 19.56 ug/ml



#12 1-chlorooctadecane (SURR)

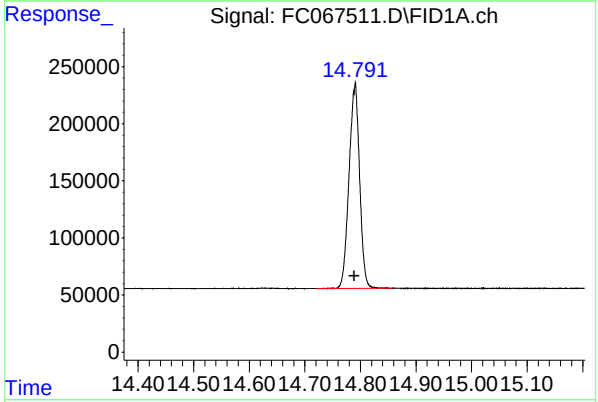
R.T.: 12.935 min
Delta R.T.: 0.002 min
Response: 2112213
Conc: 19.56 ug/ml



#13 n-Docosane (C22)

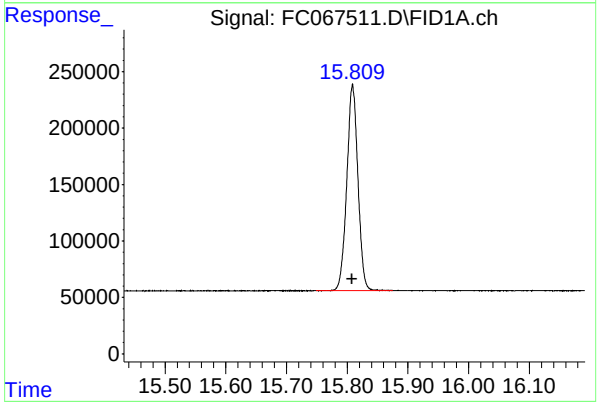
R.T.: 13.688 min
Delta R.T.: 0.000 min
Response: 2390568
Conc: 19.52 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV



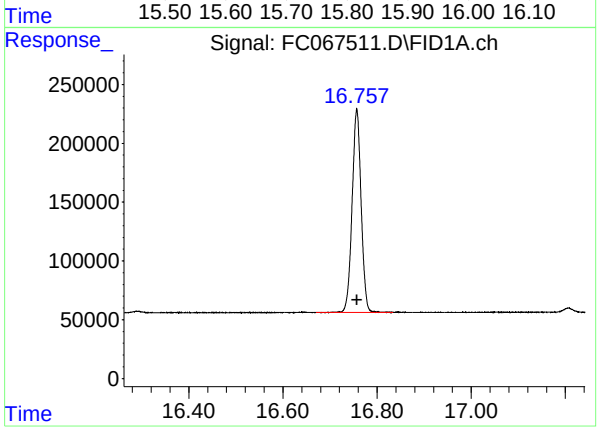
#14 n-Tetracosane (C24)

R.T.: 14.790 min
Delta R.T.: 0.000 min
Response: 2369147
Conc: 19.55 ug/ml



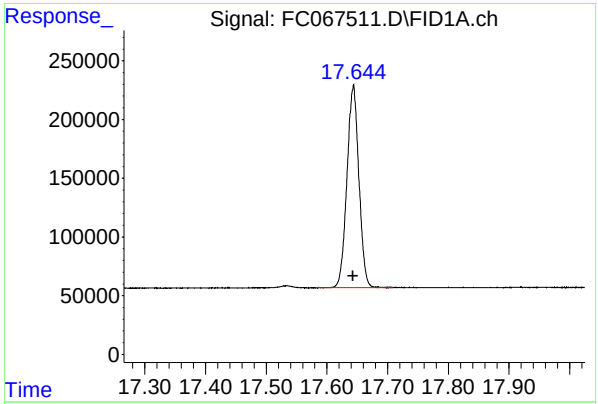
#15 n-Hexacosane (C26)

R.T.: 15.809 min
Delta R.T.: 0.001 min
Response: 2326770
Conc: 19.54 ug/ml



#16 n-Octacosane (C28)

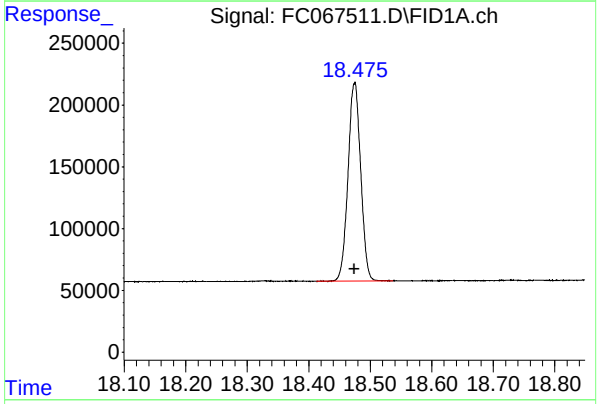
R.T.: 16.757 min
Delta R.T.: 0.000 min
Response: 2297199
Conc: 19.53 ug/ml



#17 n-Tricontane (C30)

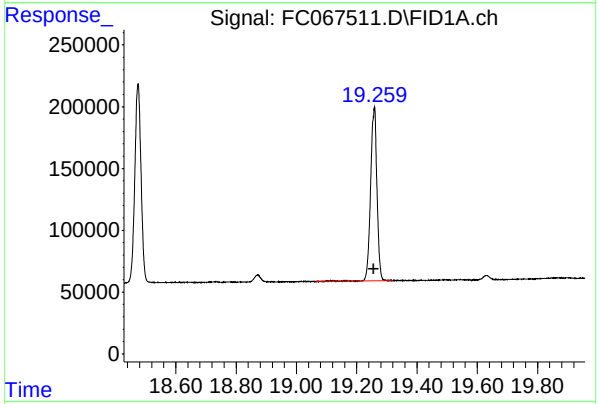
R.T.: 17.643 min
Delta R.T.: 0.000 min
Response: 2353840
Conc: 19.47 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV



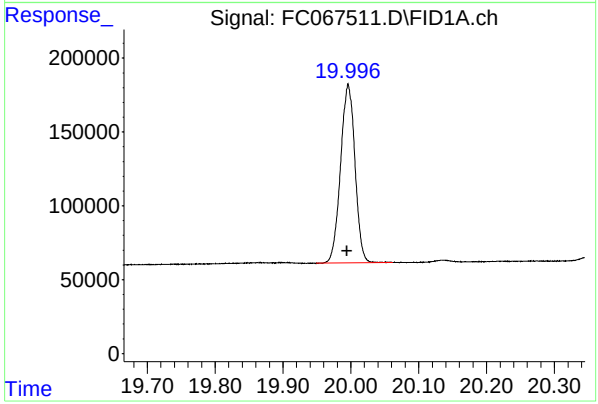
#18 n-Dotriacontane (C32)

R.T.: 18.474 min
Delta R.T.: 0.000 min
Response: 2301371
Conc: 19.45 ug/ml



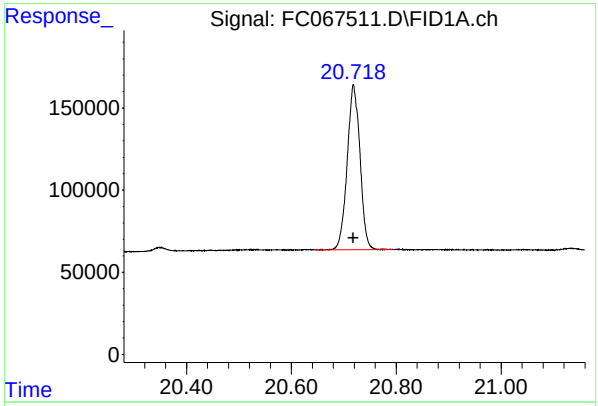
#19 n-Tetratriacontane (C34)

R.T.: 19.258 min
Delta R.T.: 0.002 min
Response: 2044186
Conc: 19.52 ug/ml



#20 n-Hexatriacontane (C36)

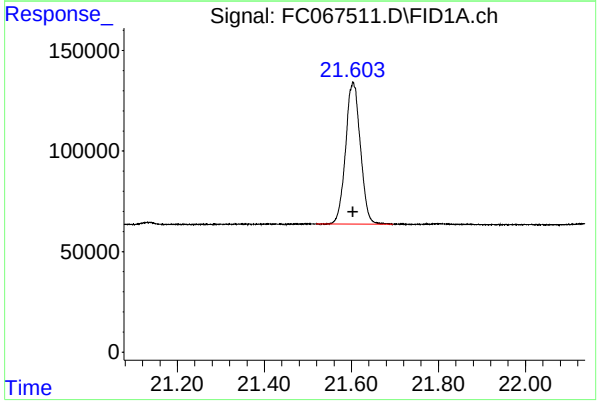
R.T.: 19.996 min
Delta R.T.: 0.002 min
Response: 1784212
Conc: 19.60 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 20.719 min
Delta R.T.: 0.000 min
Response: 1698313
Conc: 19.61 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV



#22 n-Tetracontane (C40)

R.T.: 21.604 min
Delta R.T.: 0.000 min
Response: 1661417
Conc: 19.54 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC102324AL\
Data File : FC067511.D
Signal(s) : FID1A.ch
Acq On : 23 Oct 2024 18:14
Sample : 20 PPM ALIPHATIC HC STD ICV
Misc :
ALS Vial : 16 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 102324.M
Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.274	3.245	3.334	BB	310826	2613683	90.31%	4.990%
2	4.339	4.280	4.410	BB	292955	2649286	91.54%	5.058%
3	5.916	5.865	6.012	BB	308318	2894144	100.00%	5.525%
4	6.354	6.292	6.422	BB	265716	2640477	91.24%	5.041%
5	6.971	6.924	7.080	BB	274073	2771002	95.75%	5.290%
6	8.147	8.085	8.220	BB	244098	2559793	88.45%	4.887%
7	9.744	9.689	9.819	BB	236009	2585935	89.35%	4.937%
8	11.185	11.139	11.262	BB	218367	2593351	89.61%	4.951%
9	11.496	11.429	11.555	BB	264747	2853188	98.58%	5.447%
10	12.493	12.430	12.547	BB	193698	2466507	85.22%	4.709%
11	12.935	12.870	12.995	BB	169232	2112213	72.98%	4.032%
12	13.103	13.039	13.164	BB	187529	2414000	83.41%	4.609%
13	13.688	13.620	13.752	BB	190590	2390568	82.60%	4.564%
14	14.790	14.720	14.859	BB	178398	2369147	81.86%	4.523%
15	15.809	15.749	15.875	BB	181908	2326770	80.40%	4.442%
16	16.757	16.670	16.834	BB	173028	2297199	79.37%	4.386%
17	17.643	17.582	17.709	BB	172064	2353840	81.33%	4.494%
18	18.474	18.412	18.537	BB	160280	2301371	79.52%	4.394%
19	19.258	19.065	19.320	BB	140731	2044186	70.63%	3.903%
20	19.996	19.949	20.062	BB	120232	1784212	61.65%	3.406%
21	20.719	20.647	20.794	BB	100162	1698313	58.68%	3.242%
22	21.604	21.519	21.695	BB	70657	1661417	57.41%	3.172%
			Sum of corrected areas:			52380600		

Aliphatic EPH 102324.M Wed Oct 23 18:53:21 2024

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

Inital Calibration Report for SequenceID : FD102324AR

AreaCount

Parameter Range	FD048568.D	FD048569.D	FD048570.D	FD048571.D	FD048572.D	
Aromatic C10-C12	34560081.000	17413124.000	7062069.000	3602660.000	1773971.000	
Aromatic C12-C16	51756513.000	26214353.000	10660566.000	5474983.000	2683618.000	
Aromatic C16-C21	64464447.000	32614919.000	13171585.000	6675037.000	3268126.000	
Aromatic C21-C36	134161995.000	67904676.000	27627174.000	14154223.000	6877987.000	
Aromatic EPH	284943036.000	144147072.000	58521394.000	29906903.000	14603702.000	

AVG Response Factor

Parameter Range	AVG RF	% RSD				
Aromatic C10-C12	176202.694	1.627				
Aromatic C12-C16	177273.4926664	2.167				
Aromatic C16-C21	163832.55	1.288				
Aromatic C21-C36	152713.1526664	2.017				
Aromatic EPH	161887.4688884	1.816				

Concentration

Parameter Range	FD048568.D	FD048569.D	FD048570.D	FD048571.D	FD048572.D	
Aromatic C10-C12	200.000	100.000	40.000	20.000	10.000	
Aromatic C12-C16	300.000	150.000	60.000	30.000	15.000	
Aromatic C16-C21	400.000	200.000	80.000	40.000	20.000	
Aromatic C21-C36	900.000	450.000	180.000	90.000	45.000	
Aromatic EPH	1800.000	900.000	360.000	180.000	90.000	

Response Factor

Parameter Range	FD048568.D	FD048569.D	FD048570.D	FD048571.D	FD048572.D	
Aromatic C10-C12	172800.405000	174131.240000	176551.725000	180133.000000	177397.100000	
Aromatic C12-C16	172521.710000	174762.353333	177676.100000	182499.433333	178907.866666	
Aromatic C16-C21	161161.117500	163074.595000	164644.812500	166875.925000	163406.300000	
Aromatic C21-C36	149068.883333	150899.280000	153484.300000	157269.144444	152844.155555	
Aromatic EPH	158301.686666	160163.413333	162559.427777	166149.461111	162263.355555	

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

Lab Sample ID:	100 PPM AROMATIC HC	Acq On:	23 Oct 2024 15:12
Client Sample ID:		Operator:	YP/AJ
Data file:	FD048568.D	Misc:	
Instrument:	FID_D	ALS Vial:	61
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aromatic C10-C12	4.095	5.813	34560081.000	200.000	ug/ml
Aromatic C12-C16	5.814	8.419	51756513.000	300.000	ug/ml
Aromatic C16-C21	8.420	12.681	64464447.000	400.000	ug/ml
Aromatic C21-C36	12.682	18.087	134161995.000	900.000	ug/ml
Aromatic EPH	4.095	18.087	284943036.000	1800.000	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD102324AR\
Data File : FD048568.D
Signal(s) : FID2B.ch
Acq On : 23 Oct 2024 15:12
Operator : YP/AJ
Sample : 100 PPM AROMATIC HC STD1
Misc :
ALS Vial : 61 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
100 PPM AROMATIC HC STD1

Integration File: autoint1.e
Quant Time: Oct 23 17:13:28 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 17:09:25 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
4) S	2-Bromonaphthalene (S...	7.379	14919837	98.962 ug/ml
Spiked Amount	50.000		Recovery =	197.92%
6) S	2-Flurobiphenyl (SURR)	8.230	10015694	100.124 ug/ml
Spiked Amount	50.000 Range	0 - 131	Recovery =	200.25%#
11) S	ortho-Terphenyl (SURR)	11.267	16385129	98.289 ug/ml
Spiked Amount	50.000		Recovery =	196.58%
	Target Compounds			
1) T	1,2,3-Trimethylbenzen...	4.199	16947170	98.911 ug/ml
2) T	Naphthalene (C11.7)	5.719	17612911	98.941 ug/ml
3) T	2-Methylnaphthalene (...	6.767	17624448	99.004 ug/ml
5) T	Acenaphthylene (C15.06)	8.034	17045088	98.400 ug/ml
7) T	Acenaphthene (C15.5)	8.331	17086977	98.169 ug/ml
8) T	Flouorene (C16.55)	9.109	16673063	98.964 ug/ml
9) T	Phenanthrene (C19.36)	10.496	16410378	99.314 ug/ml
10) T	Anthracene (C19.43)	10.573	15569819	98.435 ug/ml
12) T	Fluoranthene (C21.85)	12.302	15981856	98.532 ug/ml
13) T	Pyrene (C20.8)	12.596	15811187	98.991 ug/ml
14) T	Benzo[a]anthracene (C...	14.466	14979852	100.189 ug/ml
15) T	Chrysene (C27.41)	14.512	15332543	97.081 ug/ml
16) T	benzo[b]fluoranthene ...	16.016	15350623	99.928 ug/ml
17) T	Bnezo[k]fluoranthene ...	16.054	14161475	97.899 ug/ml
18) T	Benzo[a]pyrene (C31.34)	16.395	14921521	99.306 ug/ml
19) T	Indeno[1,2,3-cd]pyren...	17.761	14261058	103.933 ug/ml
20) T	Dibenz[a,h]anthracene...	17.801	14330700	95.355 ug/ml
21) T	Benzo[g,h,i]perylene ...	18.019	14842367	98.211 ug/ml

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

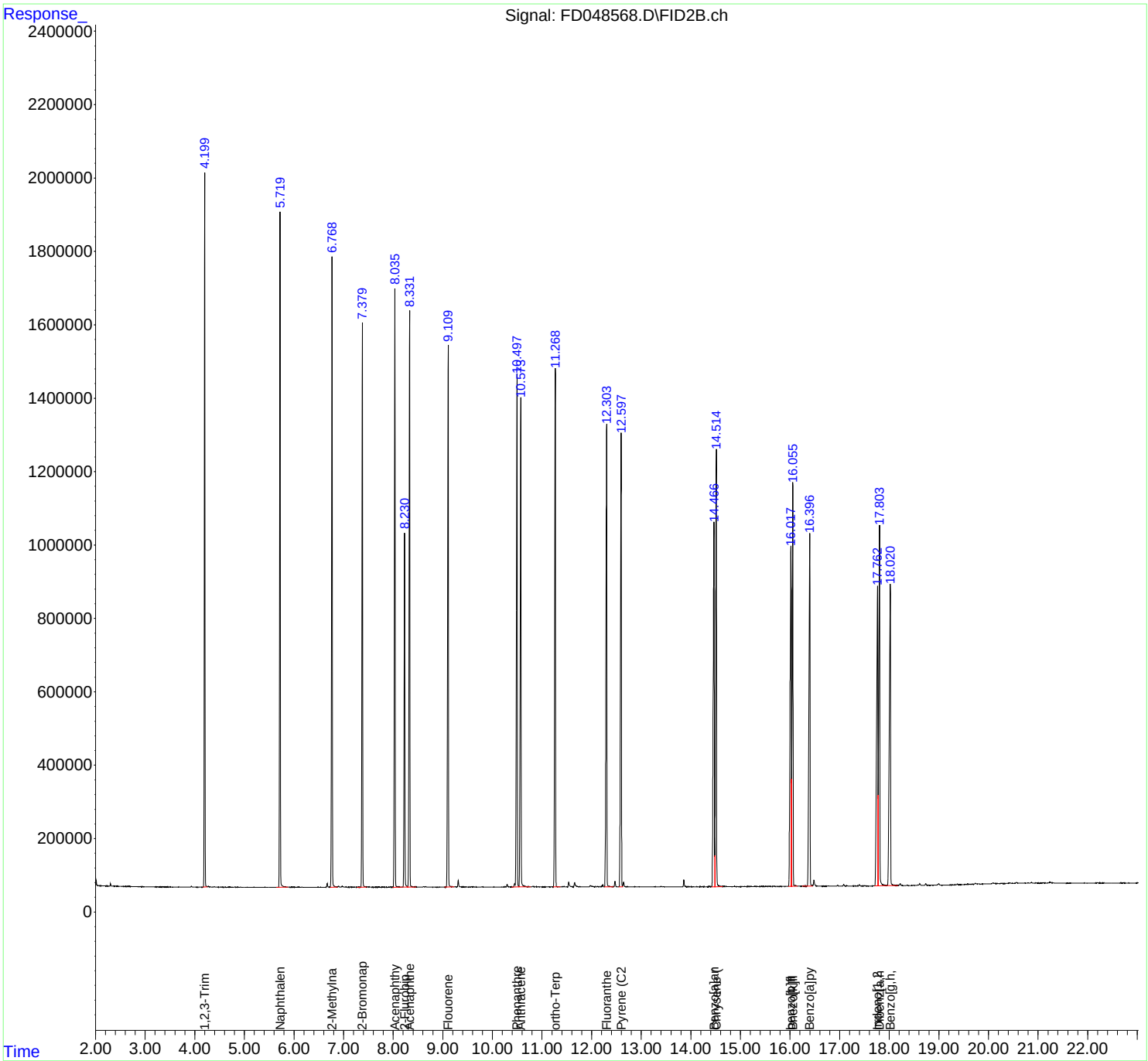
Quantitation Report (QT Reviewed)

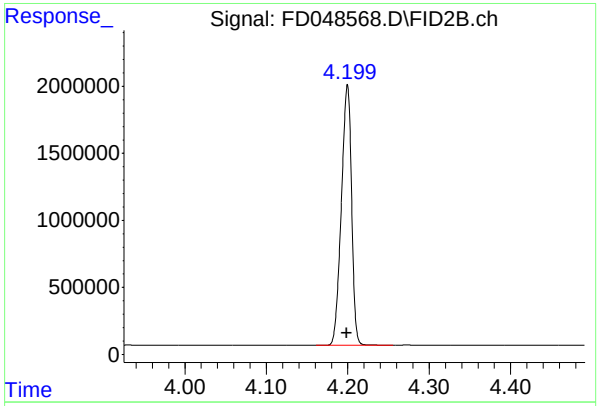
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD102324AR\
Data File : FD048568.D
Signal(s) : FID2B.ch
Acq On : 23 Oct 2024 15:12
Operator : YP/AJ
Sample : 100 PPM AROMATIC HC STD1
Misc :
ALS Vial : 61 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
100 PPM AROMATIC HC STD1

Integration File: autoint1.e
Quant Time: Oct 23 17:13:28 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 17:09:25 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

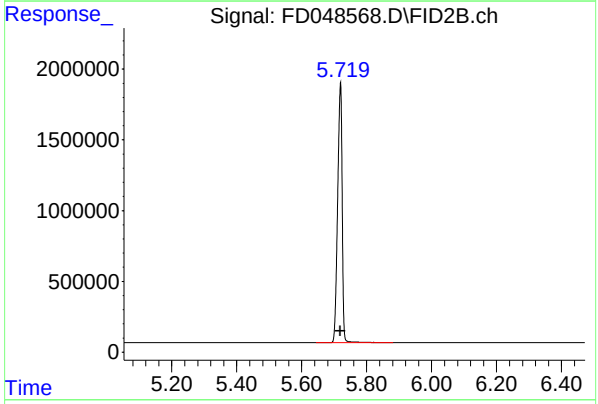




#1 1,2,3-Trimethylbenzene (C10.1)

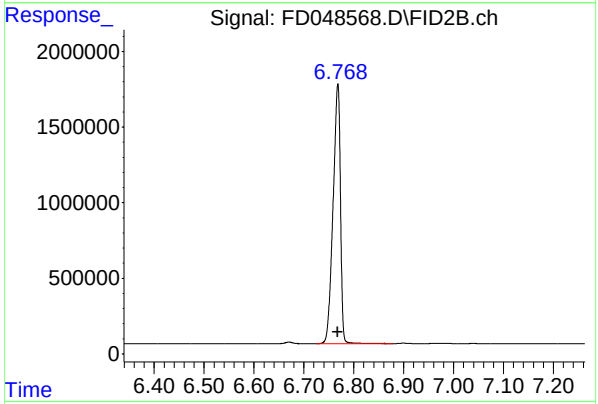
R.T.: 4.199 min
Delta R.T.: 0.000 min
Response: 16947170
Conc: 98.91 ug/ml

Instrument :
FID_D
ClientSampleId :
100 PPM AROMATIC HC STD1



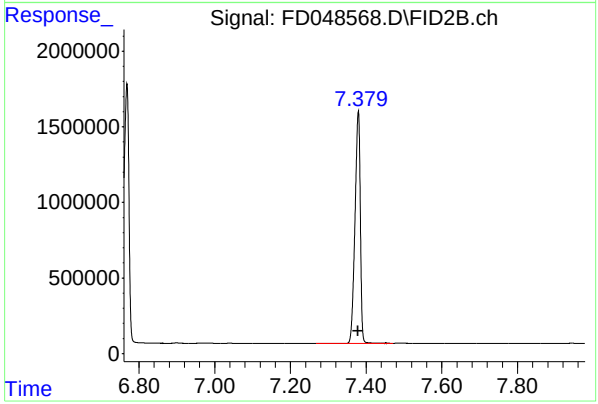
#2 Naphthalene (C11.7)

R.T.: 5.719 min
Delta R.T.: 0.000 min
Response: 17612911
Conc: 98.94 ug/ml



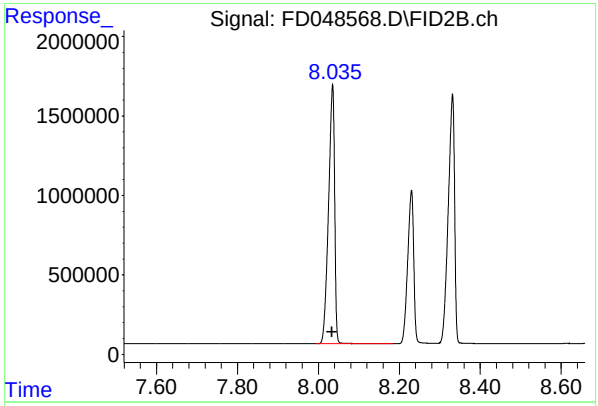
#3 2-Methylnaphthalene (C12.89)

R.T.: 6.767 min
Delta R.T.: 0.000 min
Response: 17624448
Conc: 99.00 ug/ml



#4 2-Bromonaphthalene (SURR)

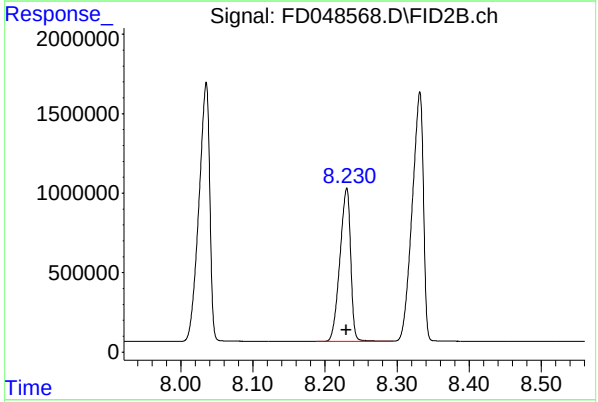
R.T.: 7.379 min
Delta R.T.: 0.000 min
Response: 14919837
Conc: 98.96 ug/ml



#5 Acenaphthylene (C15.06)

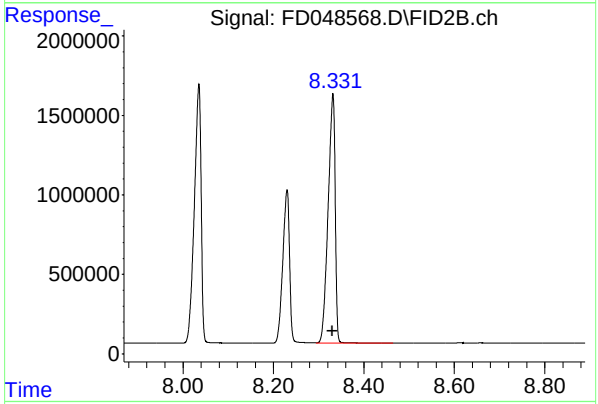
R.T.: 8.034 min
Delta R.T.: 0.000 min
Response: 17045088
Conc: 98.40 ug/ml

Instrument :
FID_D
ClientSampleId :
100 PPM AROMATIC HC STD1



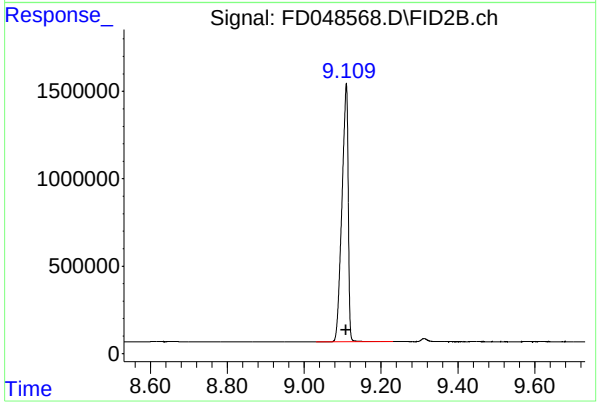
#6 2-Flurobiphenyl (SURR)

R.T.: 8.230 min
Delta R.T.: 0.000 min
Response: 10015694
Conc: 100.12 ug/ml



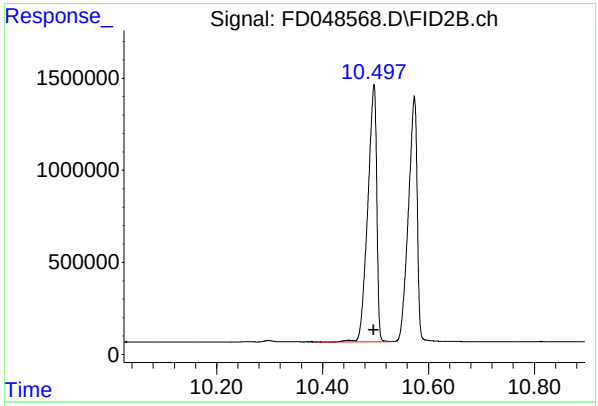
#7 Acenaphthene (C15.5)

R.T.: 8.331 min
Delta R.T.: 0.000 min
Response: 17086977
Conc: 98.17 ug/ml



#8 Flouorene (C16.55)

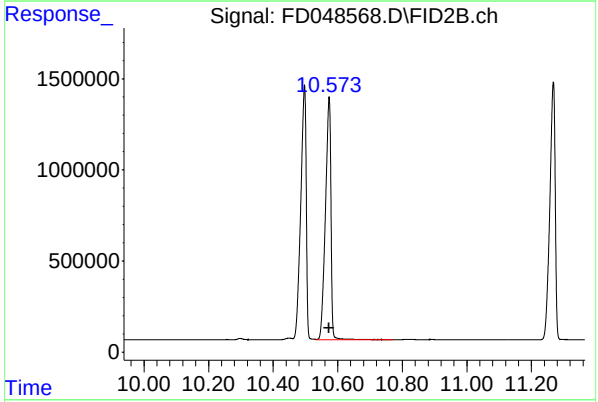
R.T.: 9.109 min
Delta R.T.: 0.000 min
Response: 16673063
Conc: 98.96 ug/ml



#9 Phenanthrene (C19.36)

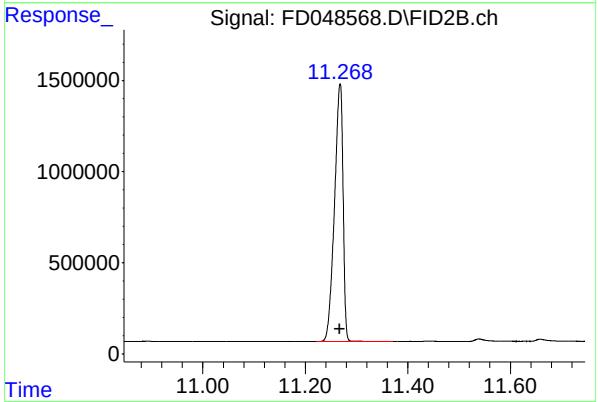
R.T.: 10.496 min
Delta R.T.: 0.000 min
Response: 16410378
Conc: 99.31 ug/ml

Instrument :
FID_D
ClientSampleId :
100 PPM AROMATIC HC STD1



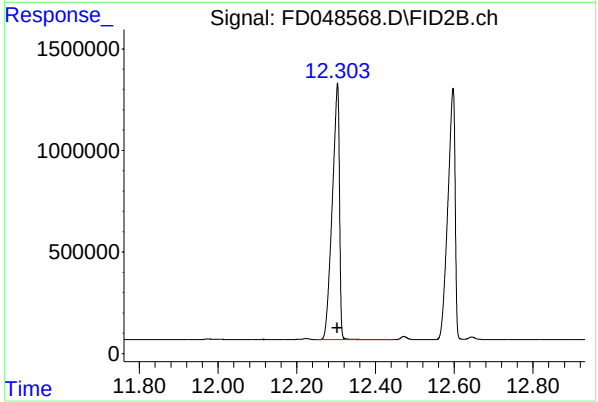
#10 Anthracene (C19.43)

R.T.: 10.573 min
Delta R.T.: 0.000 min
Response: 15569819
Conc: 98.44 ug/ml



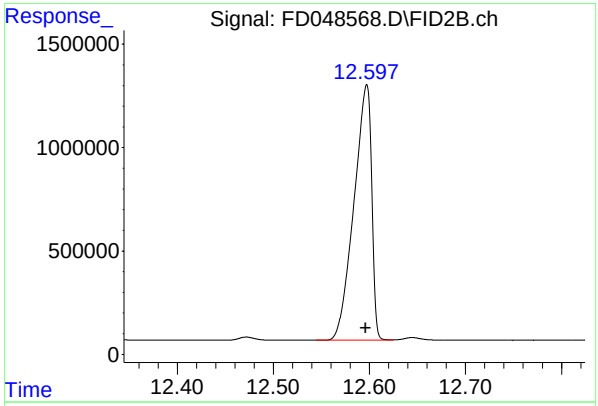
#11 ortho-Terphenyl (SURR)

R.T.: 11.267 min
Delta R.T.: 0.000 min
Response: 16385129
Conc: 98.29 ug/ml



#12 Fluoranthene (C21.85)

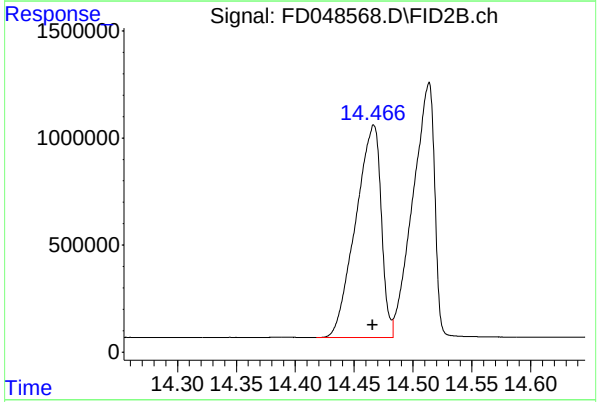
R.T.: 12.302 min
Delta R.T.: 0.000 min
Response: 15981856
Conc: 98.53 ug/ml



#13 Pyrene (C20.8)

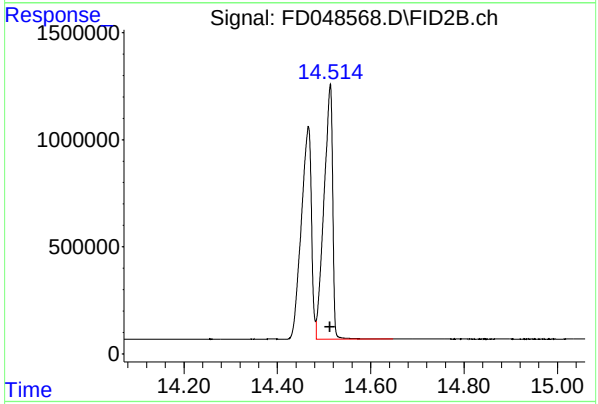
R.T.: 12.596 min
Delta R.T.: 0.000 min
Response: 15811187
Conc: 98.99 ug/ml

Instrument :
FID_D
ClientSampleId :
100 PPM AROMATIC HC STD1



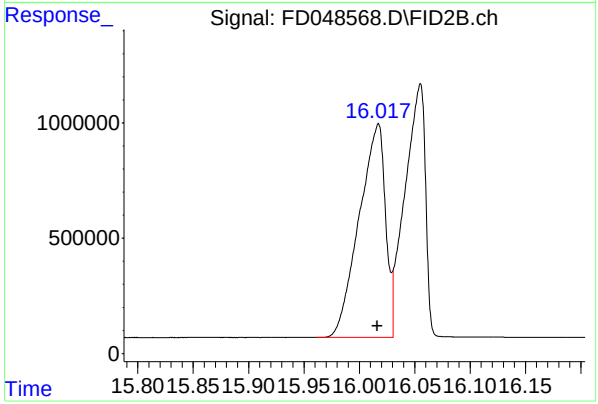
#14 Benzo[a]anthracene (C26.37)

R.T.: 14.466 min
Delta R.T.: 0.000 min
Response: 14979852
Conc: 100.19 ug/ml



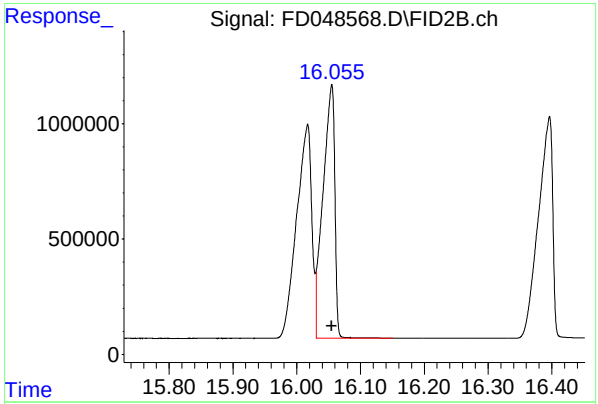
#15 Chrysene (C27.41)

R.T.: 14.512 min
Delta R.T.: 0.000 min
Response: 15332543
Conc: 97.08 ug/ml



#16 benzo[b]fluoranthene (C30.41)

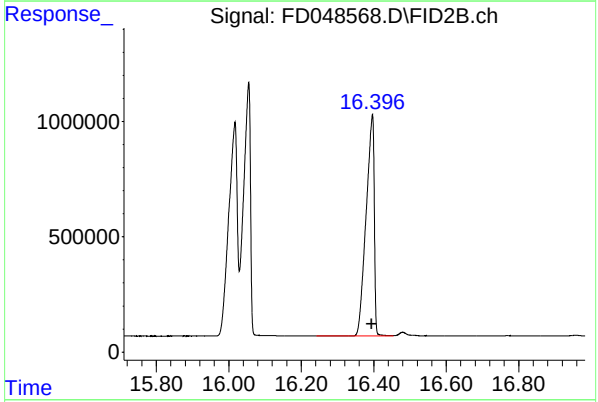
R.T.: 16.016 min
Delta R.T.: 0.000 min
Response: 15350623
Conc: 99.93 ug/ml



#17 Bnezo[k]fluoranthene (C30.14)

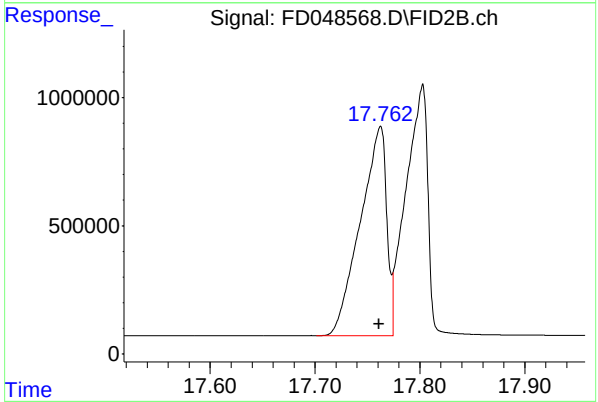
R.T.: 16.054 min
Delta R.T.: -0.001 min
Response: 14161475
Conc: 97.90 ug/ml

Instrument :
FID_D
ClientSampleId :
100 PPM AROMATIC HC STD1



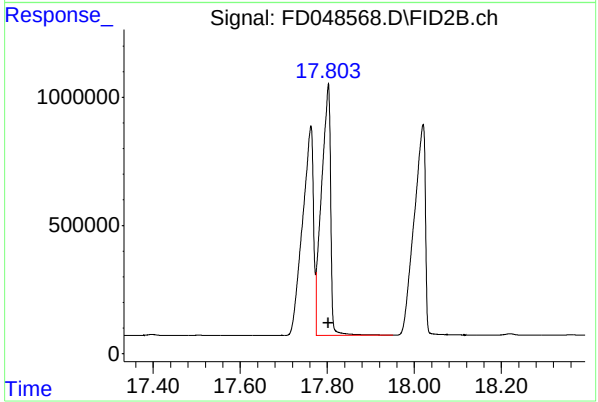
#18 Benzo[a]pyrene (C31.34)

R.T.: 16.395 min
Delta R.T.: 0.000 min
Response: 14921521
Conc: 99.31 ug/ml



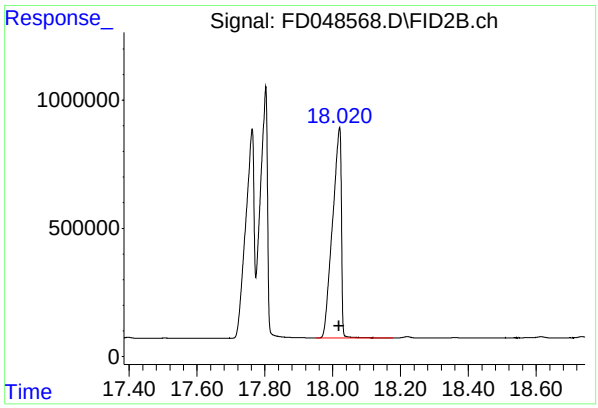
#19 Indeno[1,2,3-cd]pyrene (C35.01)

R.T.: 17.761 min
Delta R.T.: 0.000 min
Response: 14261058
Conc: 103.93 ug/ml



#20 Dibenz[a,h]anthracene (C30.36)

R.T.: 17.801 min
Delta R.T.: -0.002 min
Response: 14330700
Conc: 95.35 ug/ml



#21 Benzo[g,h,i]perylene (C34.01)

R.T.: 18.019 min
Delta R.T.: 0.000 mi
Response: 14842367
Conc: 98.21 ug/m

Instrument :
FID_D
ClientSampleId :
100 PPM AROMATIC HC STD1

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD102324AR\
Data File : FD048568.D
Signal(s) : FID2B.ch
Acq On : 23 Oct 2024 15:12
Sample : 100 PPM AROMATIC HC STD1
Misc :
ALS Vial : 61 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 102324.M
Title : GC Extractables

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.199	4.161	4.256	BV	1903452	16947170	96.16%	5.194%
2	5.719	5.644	5.881	BV	1794310	17612911	99.93%	5.398%
3	6.767	6.724	6.878	PV	1721582	17624448	100.00%	5.402%
4	7.379	7.268	7.471	PV	1511924	14919837	84.65%	4.573%
5	8.034	7.994	8.184	BB	1618840	17045088	96.71%	5.224%
6	8.230	8.188	8.294	BV	985430	10015694	56.83%	3.070%
7	8.331	8.294	8.464	VB	1571009	17086977	96.95%	5.237%
8	9.109	9.031	9.231	BB	1435050	16673063	94.60%	5.110%
9	10.496	10.388	10.533	BV	1431777	16410378	93.11%	5.030%
10	10.573	10.533	10.771	VB	1362012	15569819	88.34%	4.772%
11	11.267	11.221	11.371	BV	1423748	16385129	92.97%	5.022%
12	12.302	12.249	12.444	VV	1225147	15981856	90.68%	4.898%
13	12.596	12.544	12.624	BV	1267297	15811187	89.71%	4.846%
14	14.466	14.418	14.483	PV	976483	14979852	84.99%	4.591%
15	14.512	14.483	14.648	VB	1164623	15332543	87.00%	4.699%
16	16.016	15.961	16.031	BV	945594	15350623	87.10%	4.705%
17	16.054	16.031	16.151	VB	1101985	14161475	80.35%	4.340%
18	16.395	16.241	16.453	BV	941300	14921521	84.66%	4.573%
19	17.761	17.701	17.774	BV	810590	14261058	80.92%	4.371%
20	17.801	17.774	17.951	VV	963681	14330700	81.31%	4.392%
21	18.019	17.951	18.178	VV	811340	14842367	84.21%	4.549%

Sum of corrected areas: 326263695

Aromatic EPH 102324.M Wed Oct 23 18:16:59 2024

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

Lab Sample ID:	50 PPM AROMATIC HC S	Acq On:	23 Oct 2024 15:48
Client Sample ID:		Operator:	YP/AJ
Data file:	FD048569.D	Misc:	
Instrument:	FID_D	ALS Vial:	62
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aromatic C10-C12	4.095	5.813	17413124.000	100.000	ug/ml
Aromatic C12-C16	5.814	8.419	26214353.000	150.000	ug/ml
Aromatic C16-C21	8.420	12.681	32614919.000	200.000	ug/ml
Aromatic C21-C36	12.682	18.087	67904676.000	450.000	ug/ml
Aromatic EPH	4.095	18.087	144147072.000	900.000	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD102324AR\
Data File : FD048569.D
Signal(s) : FID2B.ch
Acq On : 23 Oct 2024 15:48
Operator : YP/AJ
Sample : 50 PPM AROMATIC HC STD2
Misc :
ALS Vial : 62 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
50 PPM AROMATIC HC STD2

Integration File: autoint1.e
Quant Time: Oct 23 17:15:21 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 17:09:25 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
4) S	2-Bromonaphthalene (S...	7.375	7529591	49.962 ug/ml
Spiked Amount	50.000		Recovery =	99.92%
6) S	2-Flurobiphenyl (SURR)	8.225	5021501	50.132 ug/ml
Spiked Amount	50.000 Range	0 - 131	Recovery =	100.26%
11) S	ortho-Terphenyl (SURR)	11.261	8334280	49.996 ug/ml
Spiked Amount	50.000		Recovery =	99.99%
	Target Compounds			
1) T	1,2,3-Trimethylbenzen...	4.196	8539641	49.894 ug/ml
2) T	Naphthalene (C11.7)	5.715	8873483	49.898 ug/ml
3) T	2-Methylnaphthalene (...	6.762	8891978	49.967 ug/ml
5) T	Acenaphthylene (C15.06)	8.029	8649197	49.954 ug/ml
7) T	Acenaphthene (C15.5)	8.324	8673178	49.886 ug/ml
8) T	Flouorene (C16.55)	9.102	8428307	50.018 ug/ml
9) T	Phenanthrene (C19.36)	10.489	8272929	50.044 ug/ml
10) T	Anthracene (C19.43)	10.565	7888616	49.915 ug/ml
12) T	Fluoranthene (C21.85)	12.294	8076662	49.863 ug/ml
13) T	Pyrene (C20.8)	12.587	8025067	50.162 ug/ml
14) T	Benzo[a]anthracene (C...	14.456	7527575	50.230 ug/ml
15) T	Chrysene (C27.41)	14.500	7833293	49.731 ug/ml
16) T	benzo[b]fluoranthene ...	16.005	7671770	49.961 ug/ml
17) T	Bnezo[k]fluoranthene ...	16.039	7231888	49.599 ug/ml
18) T	Benzo[a]pyrene (C31.34)	16.381	7547267	50.152 ug/ml
19) T	Indeno[1,2,3-cd]pyren...	17.747	6949708	50.431 ug/ml
20) T	Dibenz[a,h]anthracene...	17.785	7539487	49.466 ug/ml
21) T	Benzo[g,h,i]perylene ...	18.000	7527026	49.870 ug/ml

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

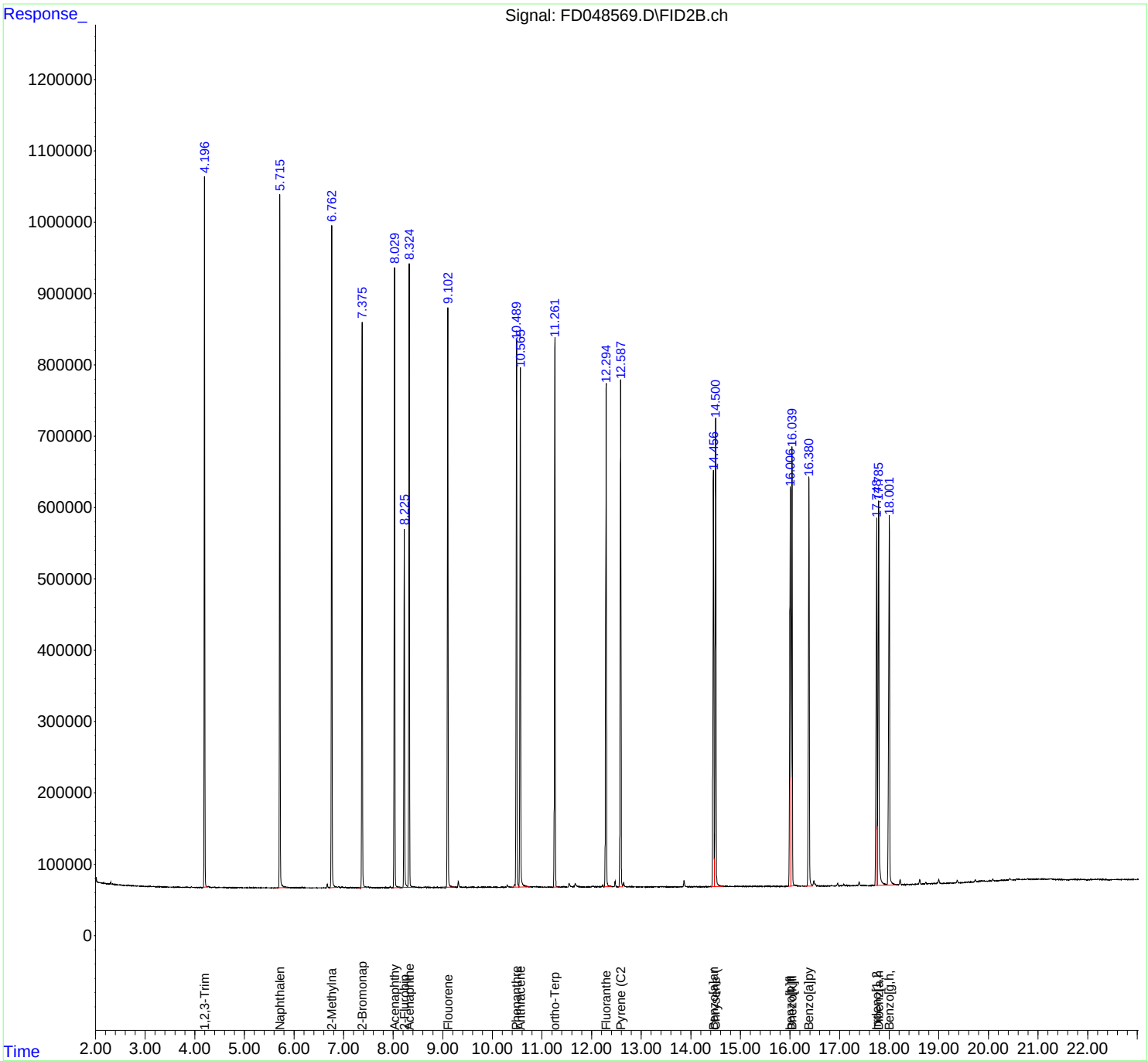
Quantitation Report (QT Reviewed)

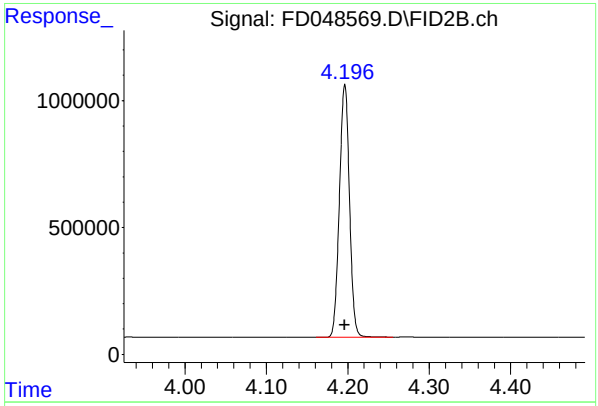
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD102324AR\
Data File : FD048569.D
Signal(s) : FID2B.ch
Acq On : 23 Oct 2024 15:48
Operator : YP/AJ
Sample : 50 PPM AROMATIC HC STD2
Misc :
ALS Vial : 62 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
50 PPM AROMATIC HC STD2

Integration File: autoint1.e
Quant Time: Oct 23 17:15:21 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 17:09:25 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

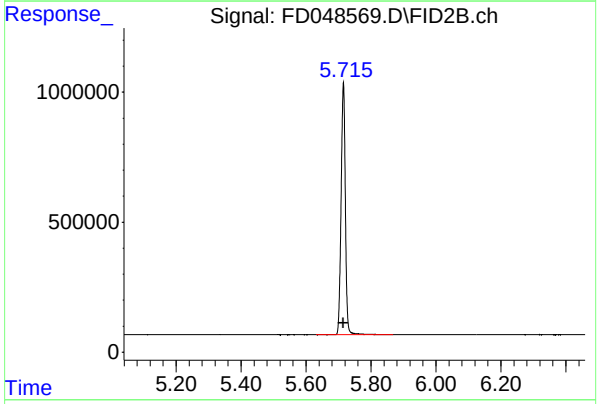




#1 1,2,3-Trimethylbenzene (C10.1)

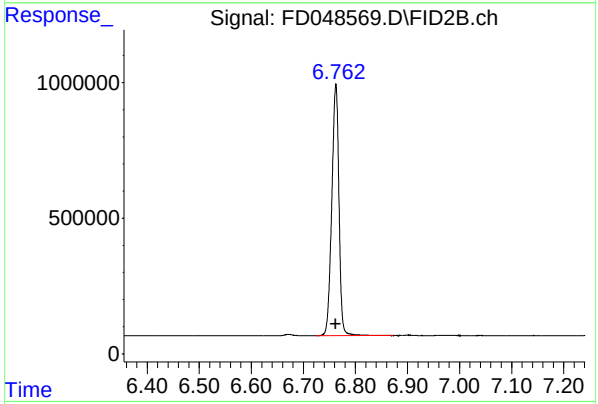
R.T.: 4.196 min
Delta R.T.: 0.000 min
Response: 8539641
Conc: 49.89 ug/ml

Instrument :
FID_D
ClientSampleId :
50 PPM AROMATIC HC STD2



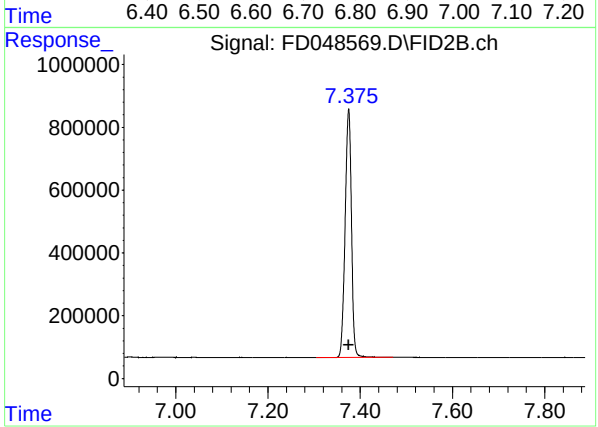
#2 Naphthalene (C11.7)

R.T.: 5.715 min
Delta R.T.: 0.000 min
Response: 8873483
Conc: 49.90 ug/ml



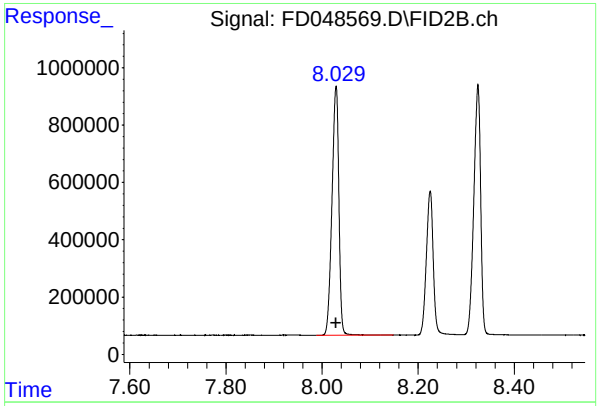
#3 2-Methylnaphthalene (C12.89)

R.T.: 6.762 min
Delta R.T.: 0.000 min
Response: 8891978
Conc: 49.97 ug/ml



#4 2-Bromonaphthalene (SURR)

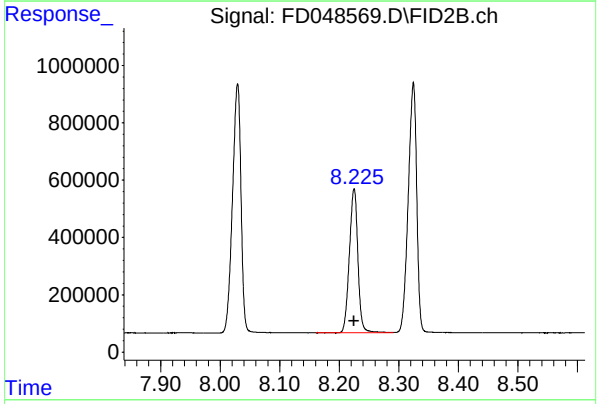
R.T.: 7.375 min
Delta R.T.: 0.000 min
Response: 7529591
Conc: 49.96 ug/ml



#5 Acenaphthylene (C15.06)

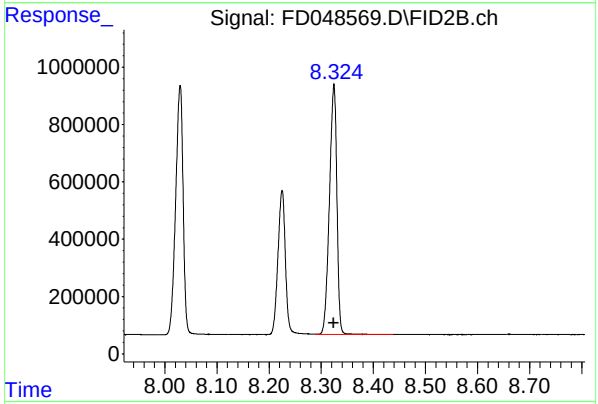
R.T.: 8.029 min
Delta R.T.: 0.000 min
Response: 8649197
Conc: 49.95 ug/ml

Instrument :
FID_D
ClientSampleId :
50 PPM AROMATIC HC STD2



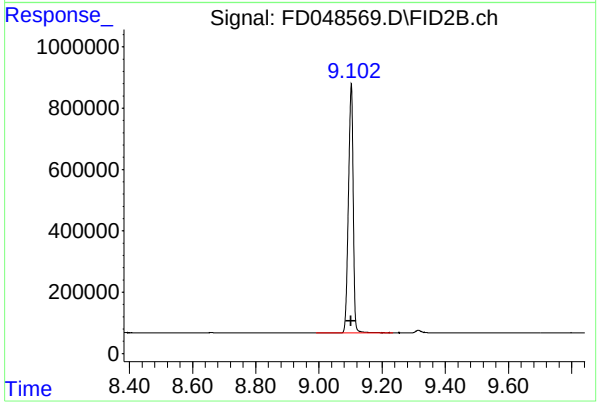
#6 2-Flurobiphenyl (SURR)

R.T.: 8.225 min
Delta R.T.: 0.000 min
Response: 5021501
Conc: 50.13 ug/ml



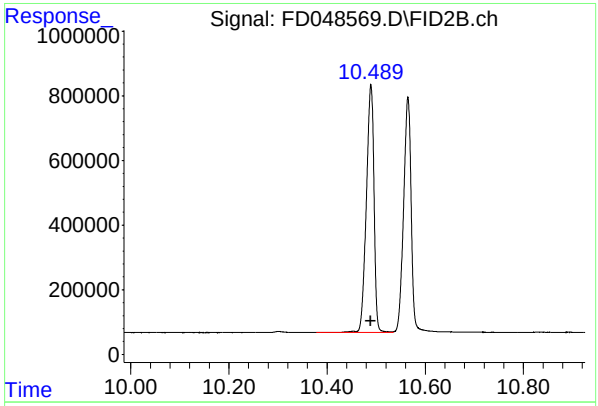
#7 Acenaphthene (C15.5)

R.T.: 8.324 min
Delta R.T.: 0.000 min
Response: 8673178
Conc: 49.89 ug/ml



#8 Flouorene (C16.55)

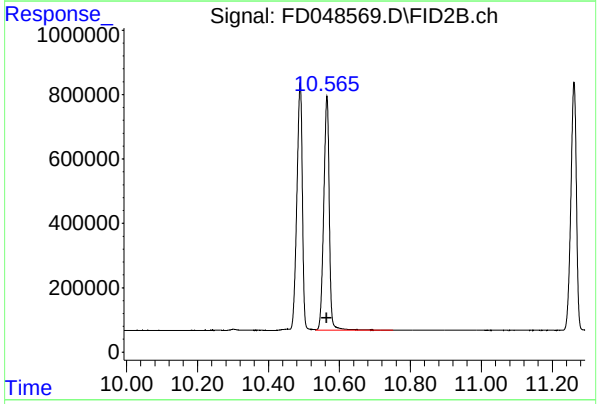
R.T.: 9.102 min
Delta R.T.: 0.000 min
Response: 8428307
Conc: 50.02 ug/ml



#9 Phenanthrene (C19.36)

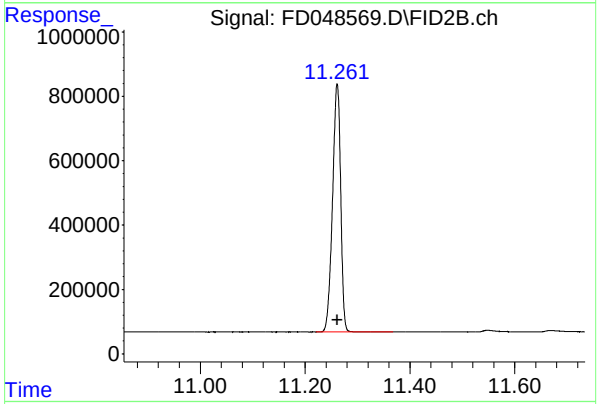
R.T.: 10.489 min
Delta R.T.: 0.000 min
Response: 8272929
Conc: 50.04 ug/ml

Instrument :
FID_D
ClientSampleId :
50 PPM AROMATIC HC STD2



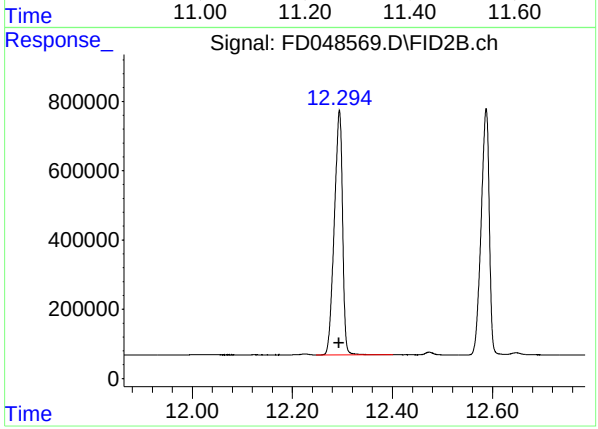
#10 Anthracene (C19.43)

R.T.: 10.565 min
Delta R.T.: 0.000 min
Response: 7888616
Conc: 49.92 ug/ml



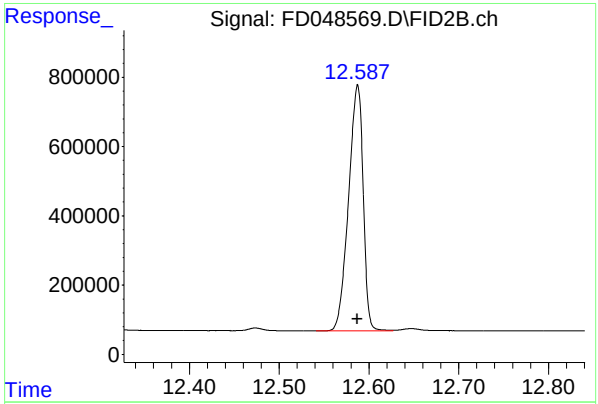
#11 ortho-Terphenyl (SURR)

R.T.: 11.261 min
Delta R.T.: 0.000 min
Response: 8334280
Conc: 50.00 ug/ml



#12 Fluoranthene (C21.85)

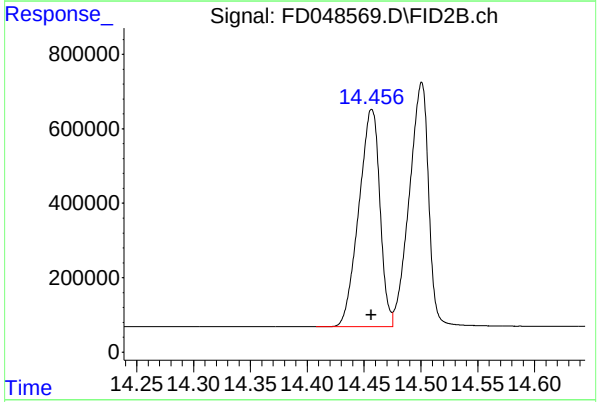
R.T.: 12.294 min
Delta R.T.: 0.000 min
Response: 8076662
Conc: 49.86 ug/ml



#13 Pyrene (C20.8)

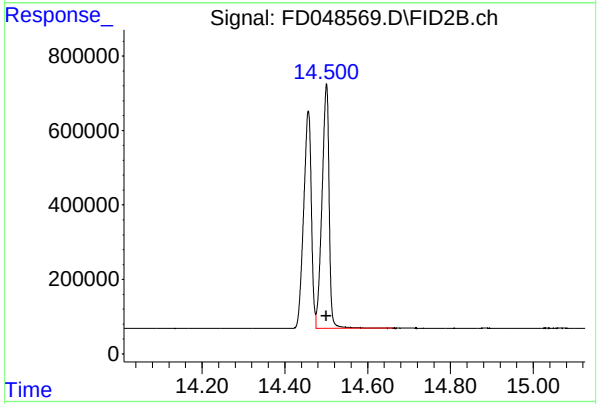
R.T.: 12.587 min
Delta R.T.: 0.000 min
Response: 8025067
Conc: 50.16 ug/ml

Instrument :
FID_D
ClientSampleId :
50 PPM AROMATIC HC STD2



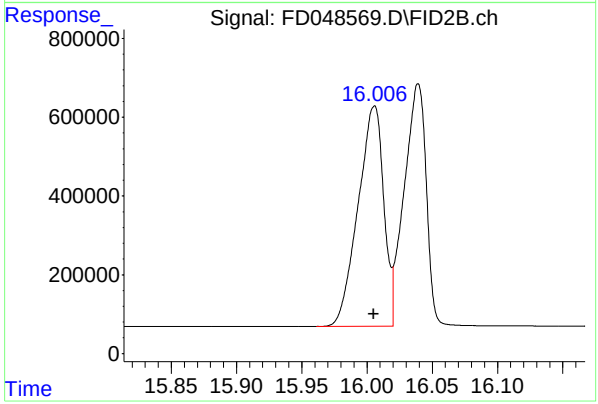
#14 Benzo[a]anthracene (C26.37)

R.T.: 14.456 min
Delta R.T.: 0.000 min
Response: 7527575
Conc: 50.23 ug/ml



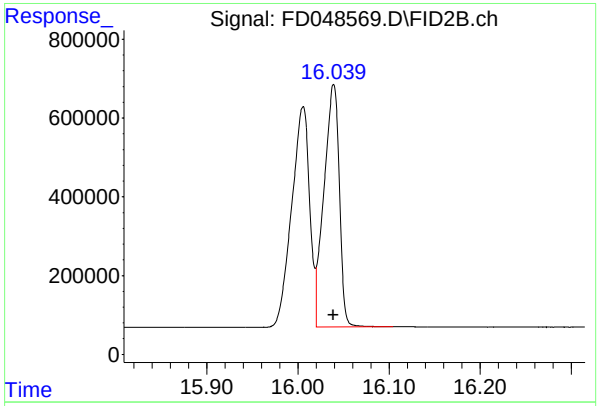
#15 Chrysene (C27.41)

R.T.: 14.500 min
Delta R.T.: 0.000 min
Response: 7833293
Conc: 49.73 ug/ml



#16 benzo[b]fluoranthene (C30.41)

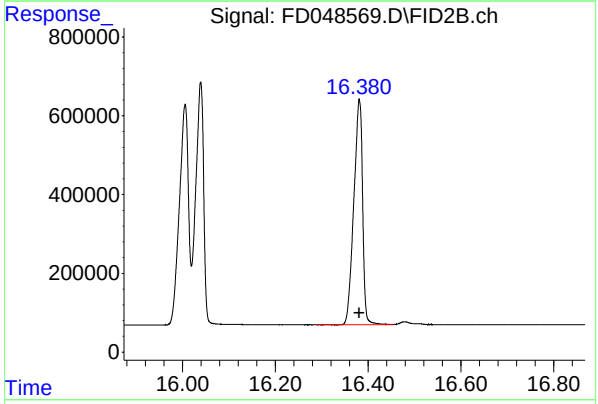
R.T.: 16.005 min
Delta R.T.: 0.000 min
Response: 7671770
Conc: 49.96 ug/ml



#17 Bnezo[k]fluoranthene (C30.14)

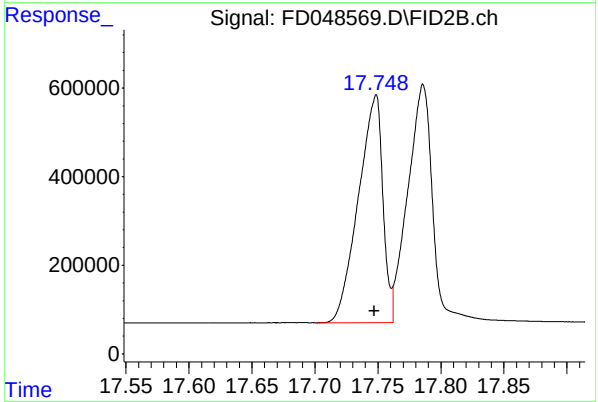
R.T.: 16.039 min
Delta R.T.: 0.000 min
Response: 7231888
Conc: 49.60 ug/ml

Instrument :
FID_D
ClientSampleId :
50 PPM AROMATIC HC STD2



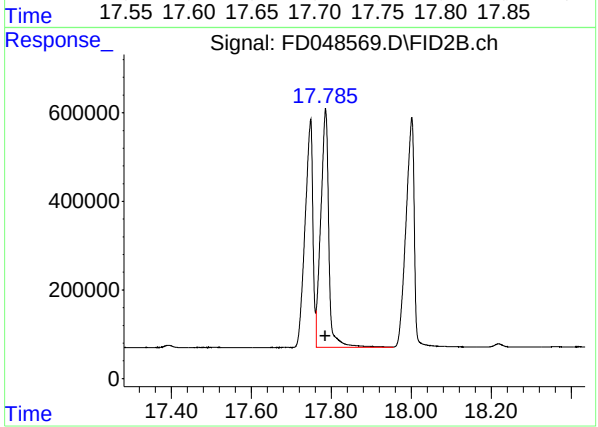
#18 Benzo[a]pyrene (C31.34)

R.T.: 16.381 min
Delta R.T.: 0.000 min
Response: 7547267
Conc: 50.15 ug/ml



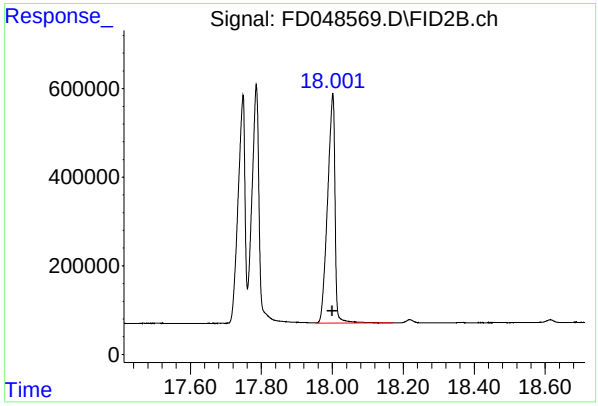
#19 Indeno[1,2,3-cd]pyrene (C35.01)

R.T.: 17.747 min
Delta R.T.: 0.000 min
Response: 6949708
Conc: 50.43 ug/ml



#20 Dibenz[a,h]anthracene (C30.36)

R.T.: 17.785 min
Delta R.T.: 0.000 min
Response: 7539487
Conc: 49.47 ug/ml



#21 Benzo[g,h,i]perylene (C34.01)

R.T.: 18.000 min
Delta R.T.: 0.000 mi
Response: 7527026
Conc: 49.87 ug/m

Instrument :
FID_D
ClientSampleId :
50 PPM AROMATIC HC STD2

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD102324AR\
Data File : FD048569.D
Signal(s) : FID2B.ch
Acq On : 23 Oct 2024 15:48
Sample : 50 PPM AROMATIC HC STD2
Misc :
ALS Vial : 62 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 102324.M
Title : GC Extractables

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.196	4.161	4.255	BV	998732	8539641	96.04%	5.175%
2	5.715	5.631	5.868	BB	961300	8873483	99.79%	5.377%
3	6.762	6.724	6.872	PV	916254	8891978	100.00%	5.388%
4	7.375	7.304	7.471	BB	788165	7529591	84.68%	4.562%
5	8.029	7.988	8.148	BB	861509	8649197	97.27%	5.241%
6	8.225	8.161	8.290	BV	502069	5021501	56.47%	3.043%
7	8.324	8.290	8.438	VB	874209	8673178	97.54%	5.255%
8	9.102	8.991	9.234	BV	799296	8428307	94.79%	5.107%
9	10.489	10.378	10.534	BV	757282	8272929	93.04%	5.013%
10	10.565	10.534	10.751	VB	727764	7888616	88.72%	4.780%
11	11.261	11.221	11.368	BB	773174	8334280	93.73%	5.050%
12	12.294	12.247	12.401	PB	711390	8076662	90.83%	4.894%
13	12.587	12.541	12.627	BV	714458	8025067	90.25%	4.863%
14	14.456	14.408	14.475	PV	588127	7527575	84.66%	4.561%
15	14.500	14.475	14.661	VB	663541	7833293	88.09%	4.747%
16	16.005	15.961	16.020	BV	559367	7671770	86.28%	4.649%
17	16.039	16.020	16.104	VV	611862	7231888	81.33%	4.382%
18	16.381	16.288	16.453	BV	574389	7547267	84.88%	4.573%
19	17.747	17.701	17.762	BV	512967	6949708	78.16%	4.211%
20	17.785	17.762	17.954	VV	532723	7539487	84.79%	4.568%
21	18.000	17.954	18.171	VV	519884	7527026	84.65%	4.561%

Sum of corrected areas: 165032443

Aromatic EPH 102324.M Wed Oct 23 18:18:22 2024

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

Lab Sample ID:	20 PPM AROMATIC HC S	Acq On:	23 Oct 2024 16:25
Client Sample ID:		Operator:	YP/AJ
Data file:	FD048570.D	Misc:	
Instrument:	FID_D	ALS Vial:	63
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aromatic C10-C12	4.095	5.813	7062069.000	40.000	ug/ml
Aromatic C12-C16	5.814	8.419	10660566.000	60.000	ug/ml
Aromatic C16-C21	8.420	12.681	13171585.000	80.000	ug/ml
Aromatic C21-C36	12.682	18.087	27627174.000	180.000	ug/ml
Aromatic EPH	4.095	18.087	58521394.000	360.000	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD102324AR\
Data File : FD048570.D
Signal(s) : FID2B.ch
Acq On : 23 Oct 2024 16:25
Operator : YP/AJ
Sample : 20 PPM AROMATIC HC STD3
Misc :
ALS Vial : 63 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD3

Integration File: autoint1.e
Quant Time: Oct 23 17:10:51 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 17:09:25 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
4) S	2-Bromonaphthalene (S...	7.372	3046545	20.000	ug/ml
Spiked Amount	50.000		Recovery =	40.00%	
6) S	2-Flurobiphenyl (SURR)	8.222	1998164	20.000	ug/ml
Spiked Amount	50.000 Range	0 - 131	Recovery =	40.00%	
11) S	ortho-Terphenyl (SURR)	11.258	3391146	20.000	ug/ml
Spiked Amount	50.000		Recovery =	40.00%	
	Target Compounds				
1) T	1,2,3-Trimethylbenzen...	4.195	3464073	20.000	ug/ml
2) T	Naphthalene (C11.7)	5.713	3597996	20.000	ug/ml
3) T	2-Methylnaphthalene (...	6.760	3595810	20.000	ug/ml
5) T	Acenaphthylene (C15.06)	8.025	3519888	20.000	ug/ml
7) T	Acenaphthene (C15.5)	8.319	3544868	20.000	ug/ml
8) T	Flouorene (C16.55)	9.097	3404430	20.000	ug/ml
9) T	Phenanthrene (C19.36)	10.485	3327445	20.000	ug/ml
10) T	Anthracene (C19.43)	10.560	3212978	20.000	ug/ml
12) T	Fluoranthene (C21.85)	12.288	3291616	20.000	ug/ml
13) T	Pyrene (C20.8)	12.581	3226732	20.000	ug/ml
14) T	Benzo[a]anthracene (C...	14.451	2984688	20.000	ug/ml
15) T	Chrysene (C27.41)	14.492	3250919	20.000	ug/ml
16) T	benzo[b]fluoranthene ...	15.997	3074553	20.000	ug/ml
17) T	Bnezo[k]fluoranthene ...	16.027	3023398	20.000	ug/ml
18) T	Benzo[a]pyrene (C31.34)	16.372	3026012	20.000	ug/ml
19) T	Indeno[1,2,3-cd]pyren...	17.737	2636324	20.000	ug/ml
20) T	Dibenz[a,h]anthracene...	17.777	3263027	20.000	ug/ml
21) T	Benzo[g,h,i]perylene ...	17.987	3076637	20.000	ug/ml

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

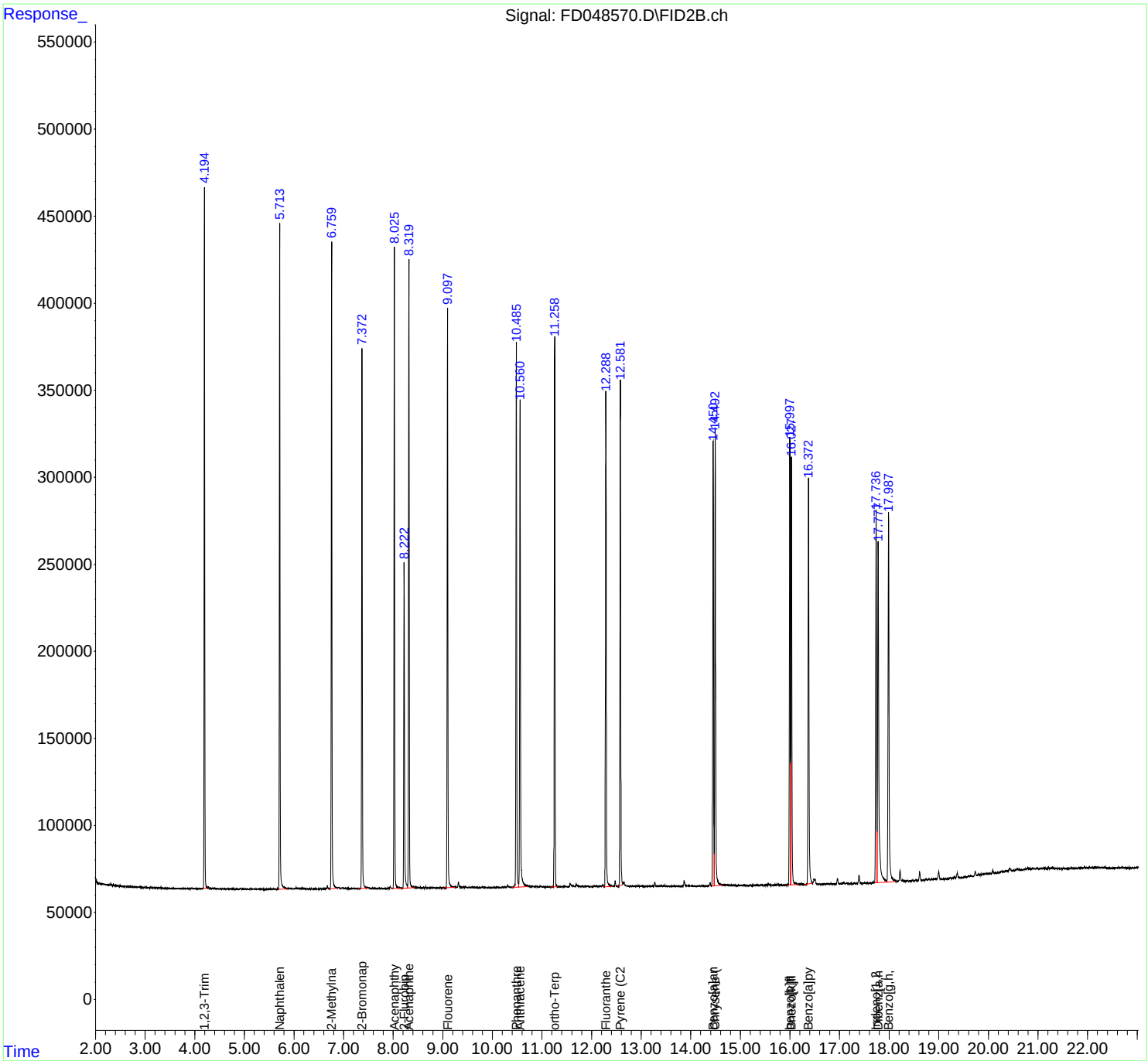
Quantitation Report (QT Reviewed)

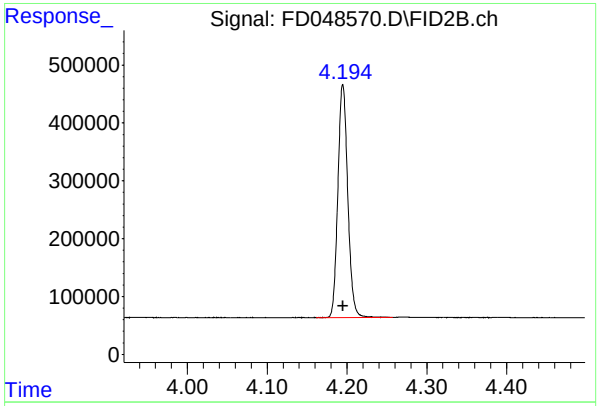
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD102324AR\
Data File : FD048570.D
Signal(s) : FID2B.ch
Acq On : 23 Oct 2024 16:25
Operator : YP/AJ
Sample : 20 PPM AROMATIC HC STD3
Misc :
ALS Vial : 63 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD3

Integration File: autoint1.e
Quant Time: Oct 23 17:10:51 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 17:09:25 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

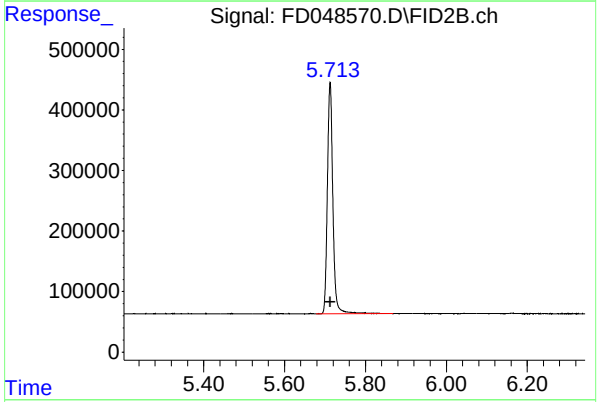




#1 1,2,3-Trimethylbenzene (C10.1)

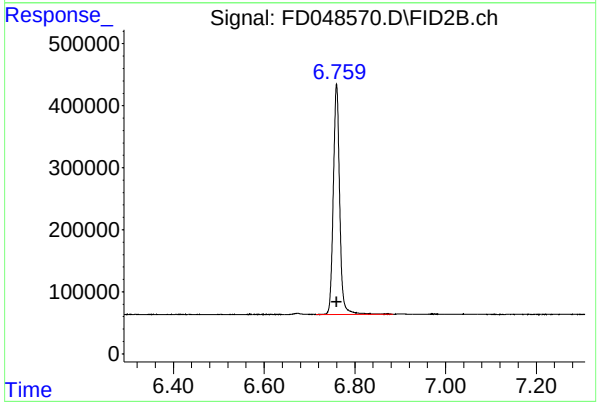
R.T.: 4.195 min
Delta R.T.: 0.000 min
Response: 3464073
Conc: 20.00 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD3



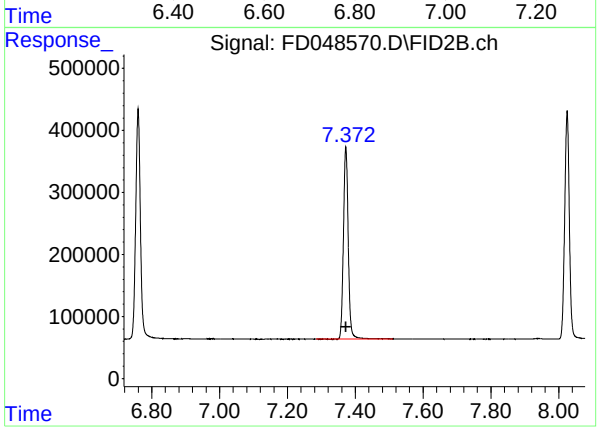
#2 Naphthalene (C11.7)

R.T.: 5.713 min
Delta R.T.: 0.000 min
Response: 3597996
Conc: 20.00 ug/ml



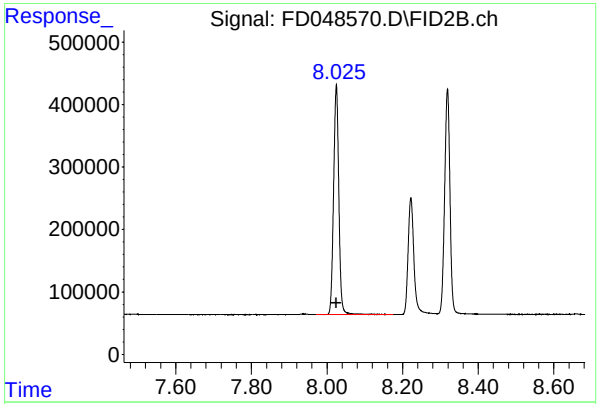
#3 2-Methylnaphthalene (C12.89)

R.T.: 6.760 min
Delta R.T.: 0.000 min
Response: 3595810
Conc: 20.00 ug/ml



#4 2-Bromonaphthalene (SURR)

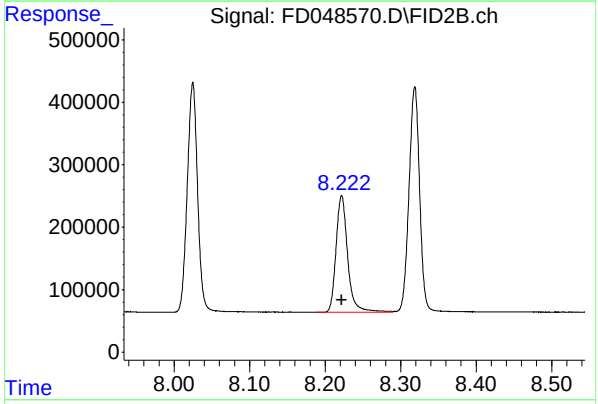
R.T.: 7.372 min
Delta R.T.: 0.000 min
Response: 3046545
Conc: 20.00 ug/ml



#5 Acenaphthylene (C15.06)

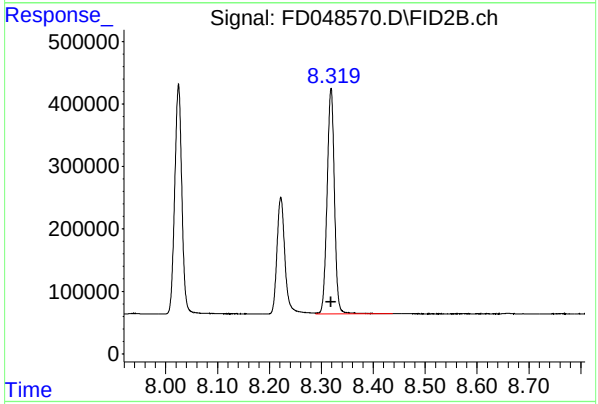
R.T.: 8.025 min
Delta R.T.: 0.000 min
Response: 3519888
Conc: 20.00 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD3



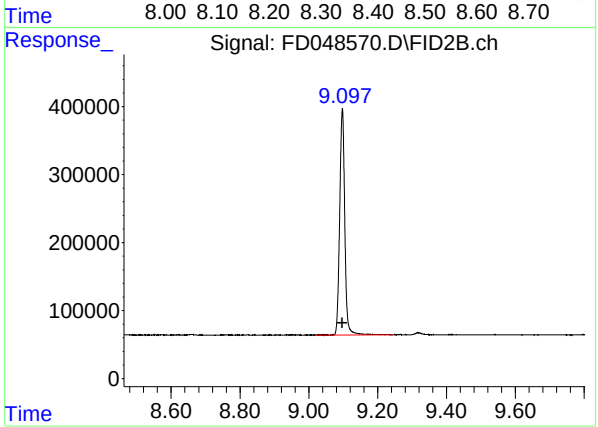
#6 2-Flurobiphenyl (SURR)

R.T.: 8.222 min
Delta R.T.: 0.000 min
Response: 1998164
Conc: 20.00 ug/ml



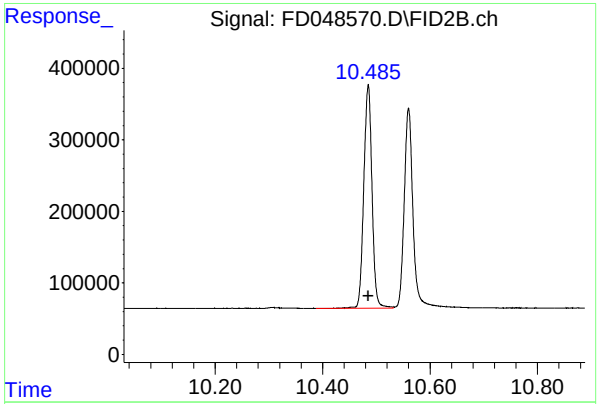
#7 Acenaphthene (C15.5)

R.T.: 8.319 min
Delta R.T.: 0.000 min
Response: 3544868
Conc: 20.00 ug/ml



#8 Flouorene (C16.55)

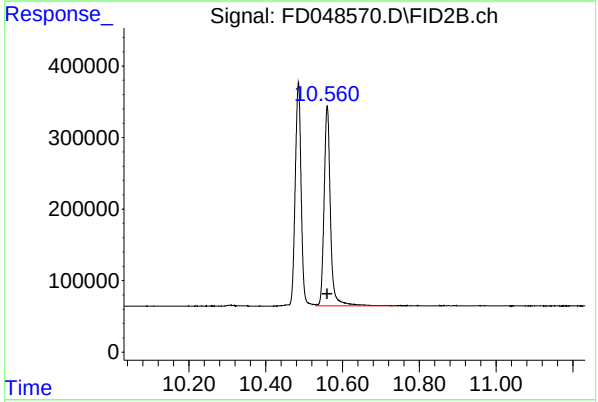
R.T.: 9.097 min
Delta R.T.: 0.000 min
Response: 3404430
Conc: 20.00 ug/ml



#9 Phenanthrene (C19.36)

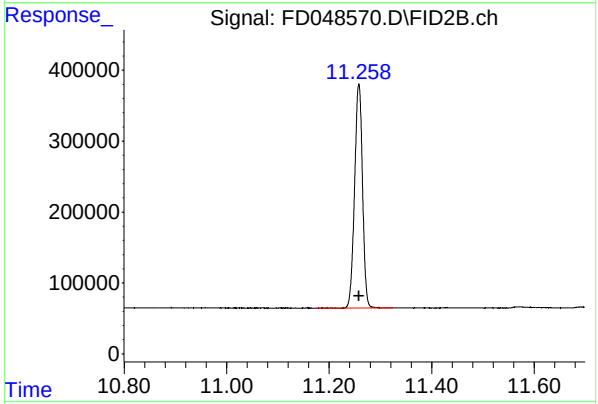
R.T.: 10.485 min
Delta R.T.: 0.000 min
Response: 3327445
Conc: 20.00 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD3



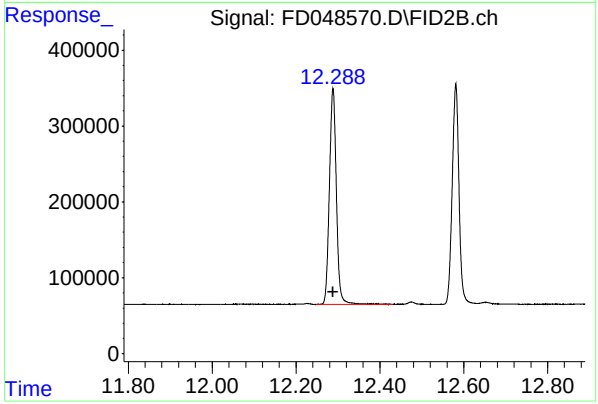
#10 Anthracene (C19.43)

R.T.: 10.560 min
Delta R.T.: 0.000 min
Response: 3212978
Conc: 20.00 ug/ml



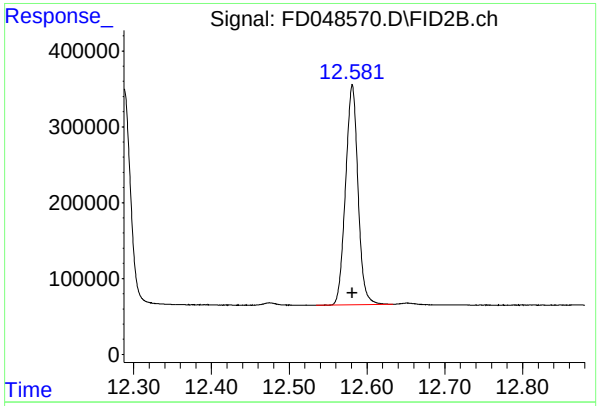
#11 ortho-Terphenyl (SURR)

R.T.: 11.258 min
Delta R.T.: 0.000 min
Response: 3391146
Conc: 20.00 ug/ml



#12 Fluoranthene (C21.85)

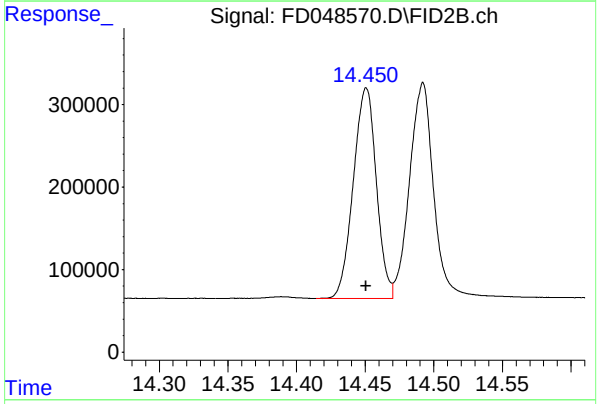
R.T.: 12.288 min
Delta R.T.: 0.000 min
Response: 3291616
Conc: 20.00 ug/ml



#13 Pyrene (C20.8)

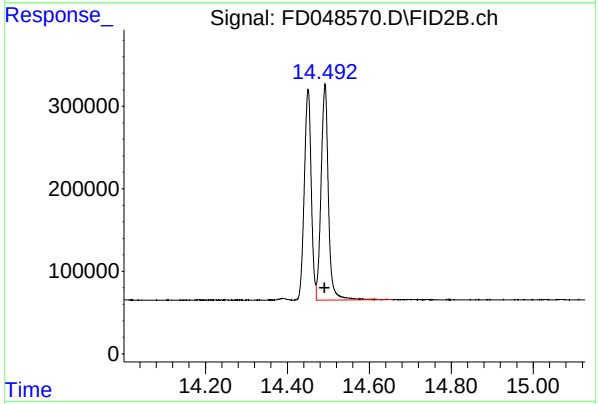
R.T.: 12.581 min
Delta R.T.: 0.000 min
Response: 3226732
Conc: 20.00 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD3



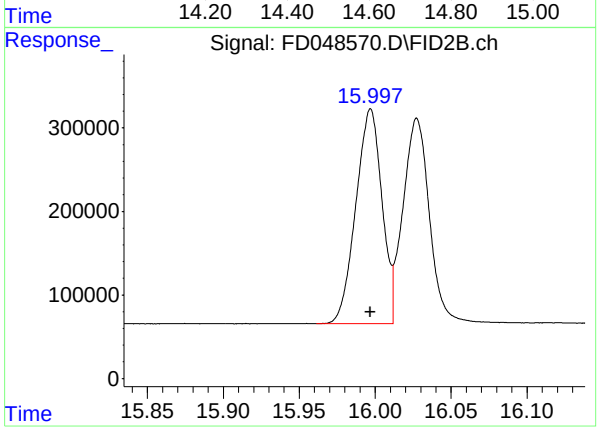
#14 Benzo[a]anthracene (C26.37)

R.T.: 14.451 min
Delta R.T.: 0.000 min
Response: 2984688
Conc: 20.00 ug/ml



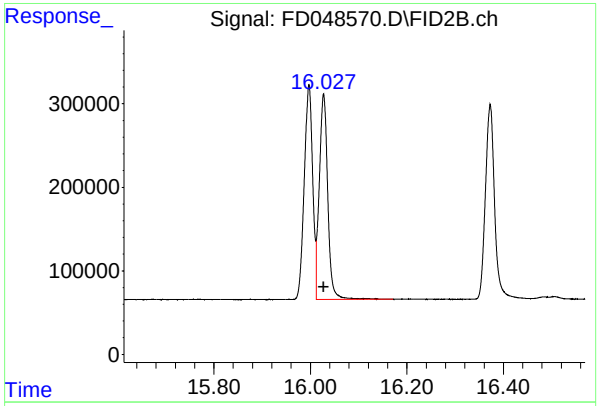
#15 Chrysene (C27.41)

R.T.: 14.492 min
Delta R.T.: 0.000 min
Response: 3250919
Conc: 20.00 ug/ml



#16 benzo[b]fluoranthene (C30.41)

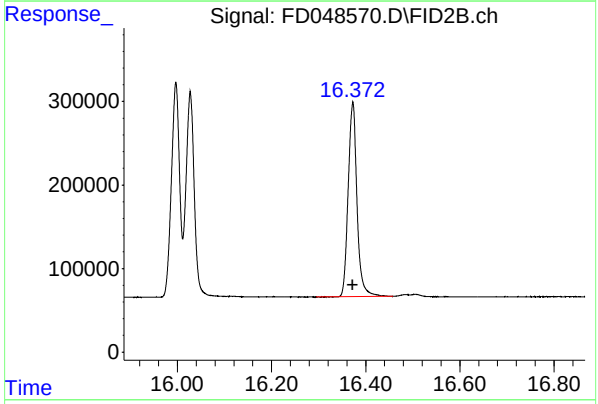
R.T.: 15.997 min
Delta R.T.: 0.000 min
Response: 3074553
Conc: 20.00 ug/ml



#17 Bnezo[k]fluoranthene (C30.14)

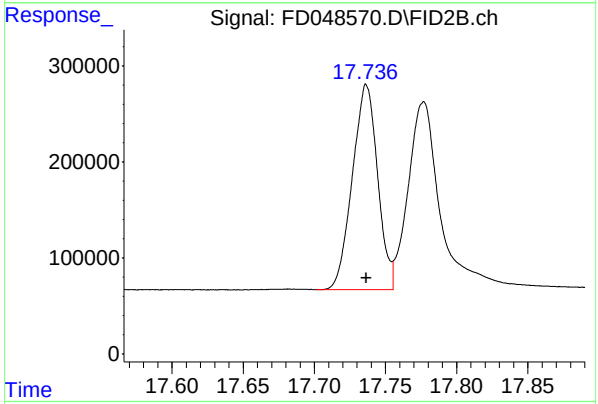
R.T.: 16.027 min
Delta R.T.: 0.000 min
Response: 3023398
Conc: 20.00 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD3



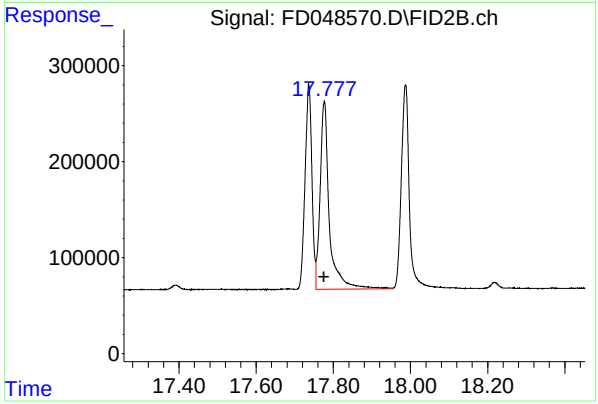
#18 Benzo[a]pyrene (C31.34)

R.T.: 16.372 min
Delta R.T.: 0.000 min
Response: 3026012
Conc: 20.00 ug/ml



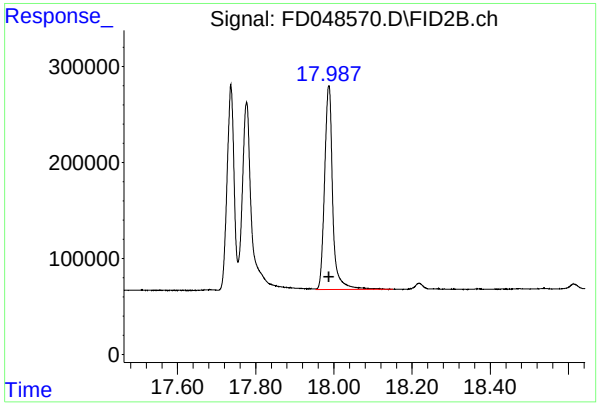
#19 Indeno[1,2,3-cd]pyrene (C35.01)

R.T.: 17.737 min
Delta R.T.: 0.000 min
Response: 2636324
Conc: 20.00 ug/ml



#20 Dibenz[a,h]anthracene (C30.36)

R.T.: 17.777 min
Delta R.T.: 0.000 min
Response: 3263027
Conc: 20.00 ug/ml



#21 Benzo[g,h,i]perylene (C34.01)

R.T.: 17.987 min
Delta R.T.: 0.000 mi
Response: 3076637
Conc: 20.00 ug/m

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD3

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD102324AR\
Data File : FD048570.D
Signal(s) : FID2B.ch
Acq On : 23 Oct 2024 16:25
Sample : 20 PPM AROMATIC HC STD3
Misc :
ALS Vial : 63 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 102324.M
Title : GC Extractables

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.195	4.161	4.257	BV	402734	3464073	96.28%	5.174%
2	5.713	5.678	5.868	PB	378310	3597996	100.00%	5.374%
3	6.760	6.714	6.884	PV	369607	3595810	99.94%	5.370%
4	7.372	7.284	7.511	BB	309427	3046545	84.67%	4.550%
5	8.025	7.971	8.174	BV	366415	3519888	97.83%	5.257%
6	8.222	8.188	8.290	PV	185974	1998164	55.54%	2.984%
7	8.319	8.290	8.438	VB	358996	3544868	98.52%	5.294%
8	9.097	9.021	9.244	BB	332486	3404430	94.62%	5.084%
9	10.485	10.388	10.531	BV	311516	3327445	92.48%	4.970%
10	10.560	10.531	10.731	VB	280274	3212978	89.30%	4.799%
11	11.258	11.174	11.324	BB	316403	3391146	94.25%	5.065%
12	12.288	12.248	12.431	PB	284432	3291616	91.48%	4.916%
13	12.581	12.534	12.633	PV	290024	3226732	89.68%	4.819%
14	14.451	14.414	14.470	PV	256334	2984688	82.95%	4.458%
15	14.492	14.470	14.658	VB	259225	3250919	90.35%	4.855%
16	15.997	15.961	16.012	BV	257955	3074553	85.45%	4.592%
17	16.027	16.012	16.171	VB	245800	3023398	84.03%	4.515%
18	16.372	16.294	16.458	BV	230365	3026012	84.10%	4.519%
19	17.737	17.701	17.755	BV	213338	2636324	73.27%	3.937%
20	17.777	17.755	17.954	VV	197036	3263027	90.69%	4.873%
21	17.987	17.954	18.151	VB	213971	3076637	85.51%	4.595%
			Sum of corrected areas:			66957247		

Aromatic EPH 102324.M Wed Oct 23 18:18:39 2024

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

Lab Sample ID:	10 PPM AROMATIC HC S	Acq On:	23 Oct 2024 17:02
Client Sample ID:		Operator:	YP/AJ
Data file:	FD048571.D	Misc:	
Instrument:	FID_D	ALS Vial:	64
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aromatic C10-C12	4.095	5.813	3602660.000	20.000	ug/ml
Aromatic C12-C16	5.814	8.419	5474983.000	30.000	ug/ml
Aromatic C16-C21	8.420	12.681	6675037.000	40.000	ug/ml
Aromatic C21-C36	12.682	18.087	14154223.000	90.000	ug/ml
Aromatic EPH	4.095	18.087	29906903.000	180.000	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD102324AR\
Data File : FD048571.D
Signal(s) : FID2B.ch
Acq On : 23 Oct 2024 17:02
Operator : YP/AJ
Sample : 10 PPM AROMATIC HC STD4
Misc :
ALS Vial : 64 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
10 PPM AROMATIC HC STD4

Integration File: autoint1.e
Quant Time: Oct 23 17:44:21 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 17:44:12 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
4)	S 2-Bromonaphthalene (S...	7.373	1535833	10.143	ug/ml
Spiked Amount	50.000		Recovery =	20.29%	
6)	S 2-Flurobiphenyl (SURR)	8.224	998081	9.973	ug/ml
Spiked Amount	50.000 Range 0 - 131		Recovery =	19.95%	
11)	S ortho-Terphenyl (SURR)	11.257	1758096	10.404	ug/ml
Spiked Amount	50.000		Recovery =	20.81%	
	Target Compounds				
1)	T 1,2,3-Trimethylbenzen...	4.196	1780007	10.297	ug/ml
2)	T Naphthalene (C11.7)	5.714	1822653	10.186	ug/ml
3)	T 2-Methylnaphthalene (...	6.760	1826622	10.197	ug/ml
5)	T Acenaphthylene (C15.06)	8.025	1809718	10.335	ug/ml
7)	T Acenaphthene (C15.5)	8.318	1838643	10.425	ug/ml
8)	T Flouorene (C16.55)	9.098	1719817	10.154	ug/ml
9)	T Phenanthrene (C19.36)	10.484	1680489	10.124	ug/ml
10)	T Anthracene (C19.43)	10.560	1635709	10.260	ug/ml
12)	T Fluoranthene (C21.85)	12.288	1671203	10.236	ug/ml
13)	T Pyrene (C20.8)	12.581	1639022	10.183	ug/ml
14)	T Benzo[a]anthracene (C...	14.450	1472368	9.868	ug/ml
15)	T Chrysene (C27.41)	14.491	1725560	10.700	ug/ml
16)	T benzo[b]fluoranthene ...	15.995	1544713	10.045	ug/ml
17)	T Bnezo[k]fluoranthene ...	16.026	1579300	10.611	ug/ml
18)	T Benzo[a]pyrene (C31.34)	16.374	1518079	10.066	ug/ml
19)	T Indeno[1,2,3-cd]pyren...	17.737	1259393	9.340	ug/ml
20)	T Dibenz[a,h]anthracene...	17.779	1780079	11.209	ug/ml
21)	T Benzo[g,h,i]perylene ...	17.986	1603528	10.461	ug/ml

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

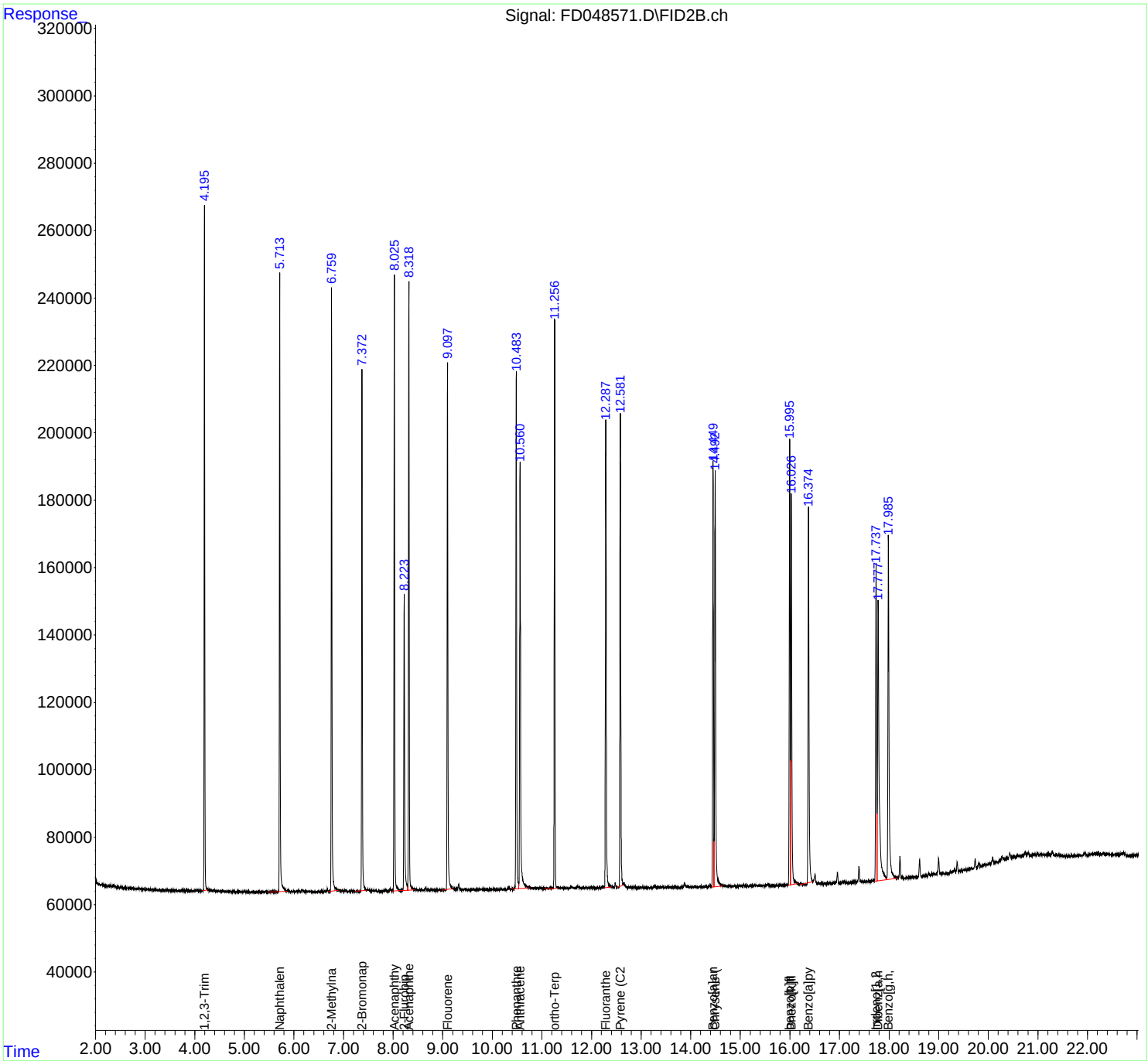
Quantitation Report (QT Reviewed)

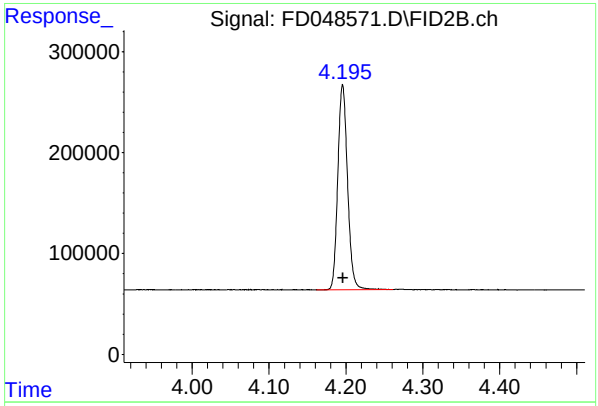
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD102324AR\
Data File : FD048571.D
Signal(s) : FID2B.ch
Acq On : 23 Oct 2024 17:02
Operator : YP/AJ
Sample : 10 PPM AROMATIC HC STD4
Misc :
ALS Vial : 64 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
10 PPM AROMATIC HC STD4

Integration File: autoint1.e
Quant Time: Oct 23 17:44:21 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 17:44:12 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

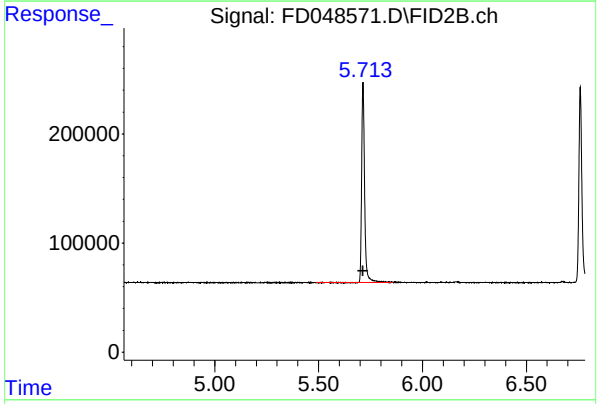




#1 1,2,3-Trimethylbenzene (C10.1)

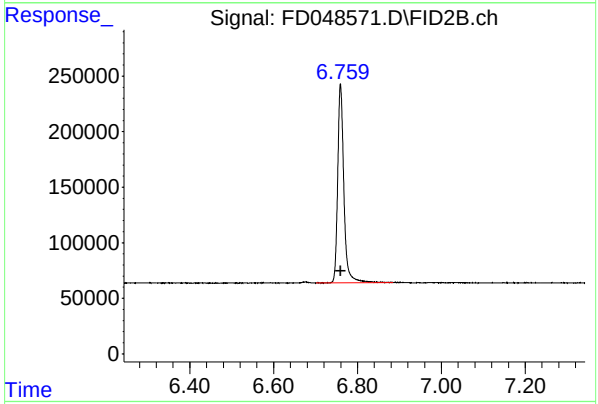
R.T.: 4.196 min
Delta R.T.: 0.000 min
Response: 1780007
Conc: 10.30 ug/ml

Instrument :
FID_D
ClientSampleId :
10 PPM AROMATIC HC STD4



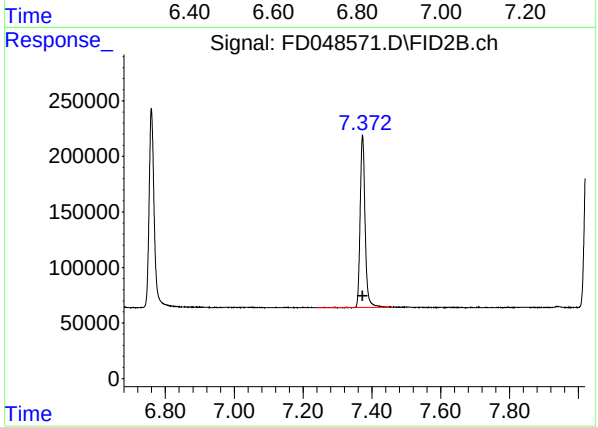
#2 Naphthalene (C11.7)

R.T.: 5.714 min
Delta R.T.: 0.000 min
Response: 1822653
Conc: 10.19 ug/ml



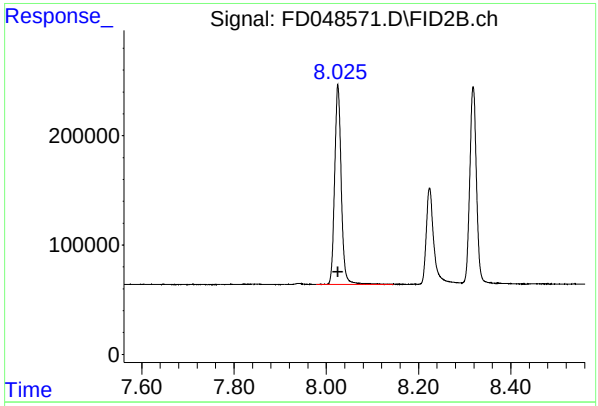
#3 2-Methylnaphthalene (C12.89)

R.T.: 6.760 min
Delta R.T.: 0.000 min
Response: 1826622
Conc: 10.20 ug/ml



#4 2-Bromonaphthalene (SURR)

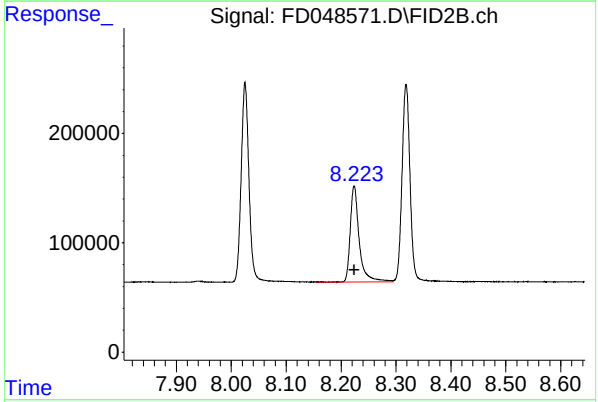
R.T.: 7.373 min
Delta R.T.: 0.000 min
Response: 1535833
Conc: 10.14 ug/ml



#5 Acenaphthylene (C15.06)

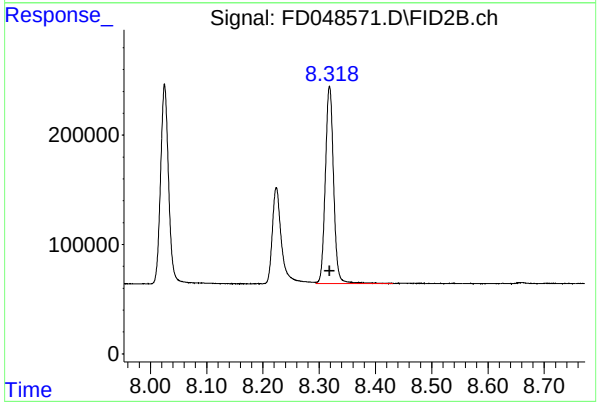
R.T.: 8.025 min
Delta R.T.: 0.000 min
Response: 1809718
Conc: 10.34 ug/ml

Instrument :
FID_D
ClientSampleId :
10 PPM AROMATIC HC STD4



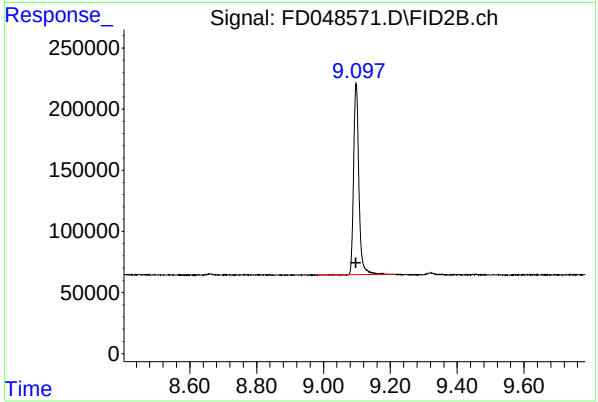
#6 2-Flurobiphenyl (SURR)

R.T.: 8.224 min
Delta R.T.: 0.000 min
Response: 998081
Conc: 9.97 ug/ml



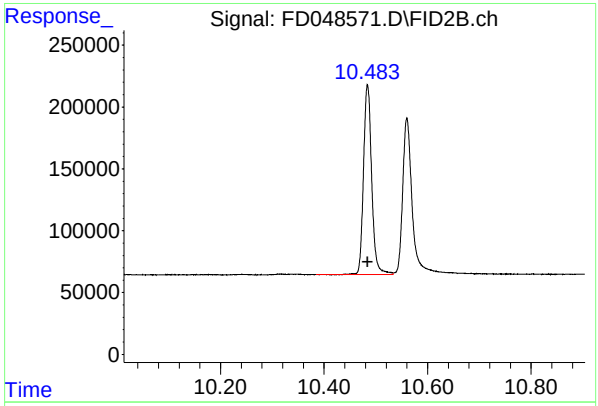
#7 Acenaphthene (C15.5)

R.T.: 8.318 min
Delta R.T.: 0.000 min
Response: 1838643
Conc: 10.43 ug/ml



#8 Flouorene (C16.55)

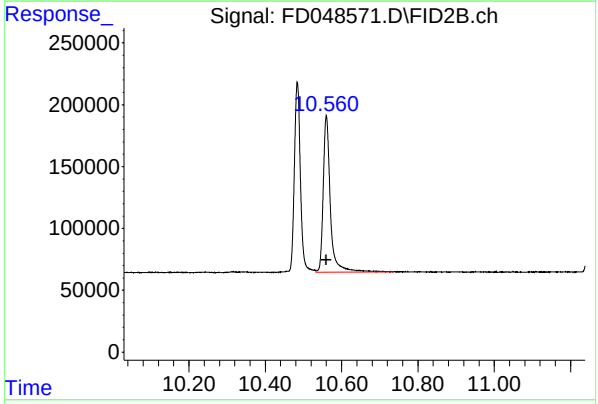
R.T.: 9.098 min
Delta R.T.: 0.000 min
Response: 1719817
Conc: 10.15 ug/ml



#9 Phenanthrene (C19.36)

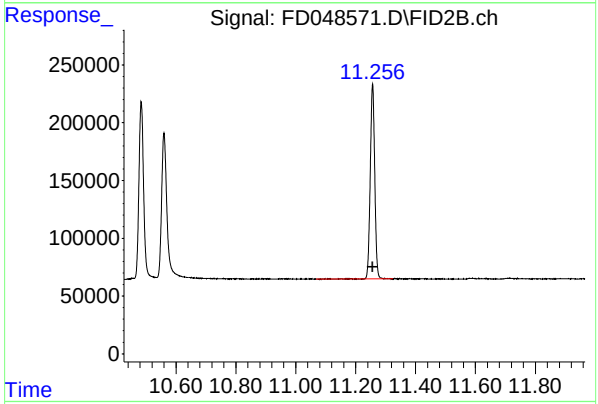
R.T.: 10.484 min
Delta R.T.: 0.000 min
Response: 1680489
Conc: 10.12 ug/ml

Instrument :
FID_D
ClientSampleId :
10 PPM AROMATIC HC STD4



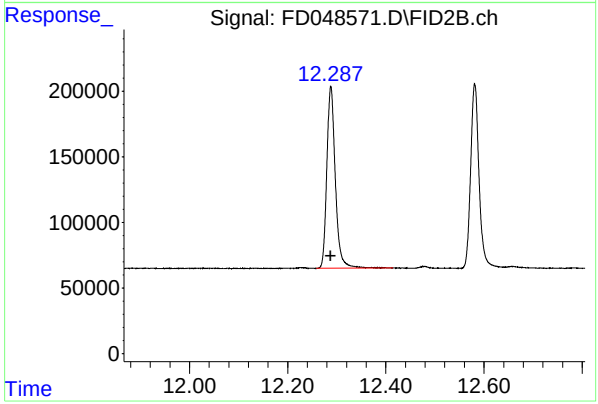
#10 Anthracene (C19.43)

R.T.: 10.560 min
Delta R.T.: 0.000 min
Response: 1635709
Conc: 10.26 ug/ml



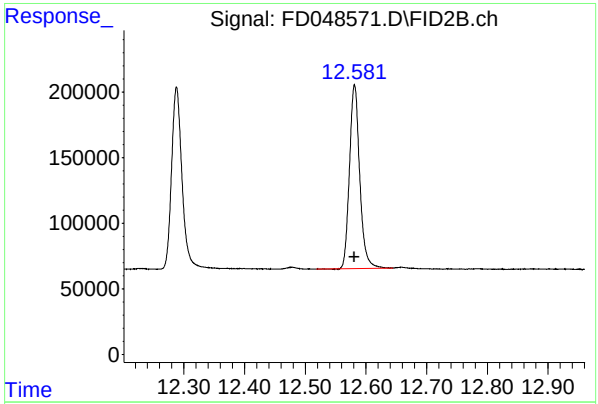
#11 ortho-Terphenyl (SURR)

R.T.: 11.257 min
Delta R.T.: 0.000 min
Response: 1758096
Conc: 10.40 ug/ml



#12 Fluoranthene (C21.85)

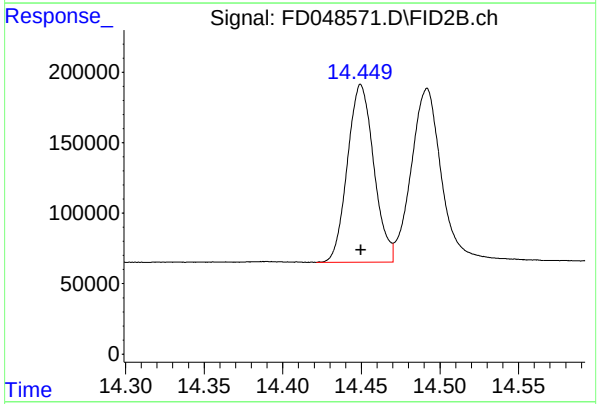
R.T.: 12.288 min
Delta R.T.: 0.000 min
Response: 1671203
Conc: 10.24 ug/ml



#13 Pyrene (C20.8)

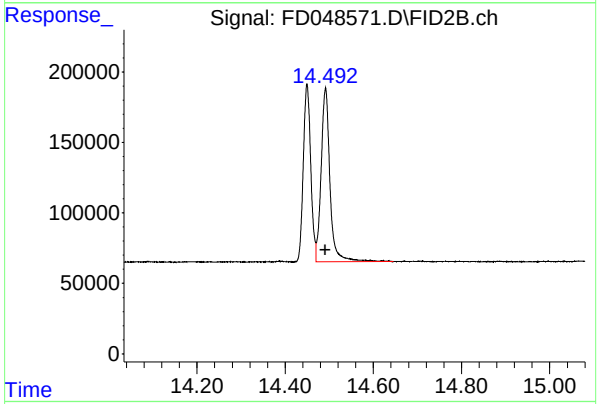
R.T.: 12.581 min
Delta R.T.: 0.000 min
Response: 1639022
Conc: 10.18 ug/ml

Instrument :
FID_D
ClientSampleId :
10 PPM AROMATIC HC STD4



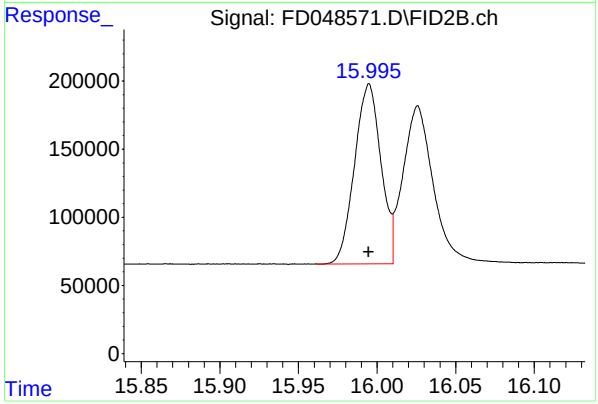
#14 Benzo[a]anthracene (C26.37)

R.T.: 14.450 min
Delta R.T.: 0.000 min
Response: 1472368
Conc: 9.87 ug/ml



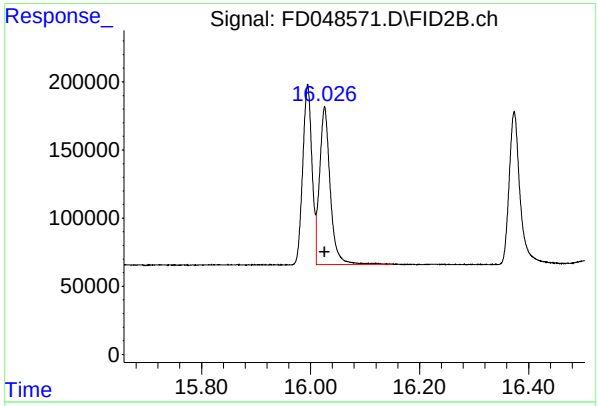
#15 Chrysene (C27.41)

R.T.: 14.491 min
Delta R.T.: 0.000 min
Response: 1725560
Conc: 10.70 ug/ml



#16 benzo[b]fluoranthene (C30.41)

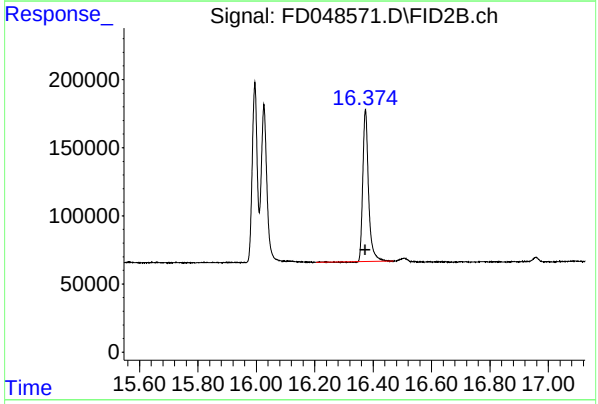
R.T.: 15.995 min
Delta R.T.: 0.000 min
Response: 1544713
Conc: 10.04 ug/ml



#17 Bnezo[k]fluoranthene (C30.14)

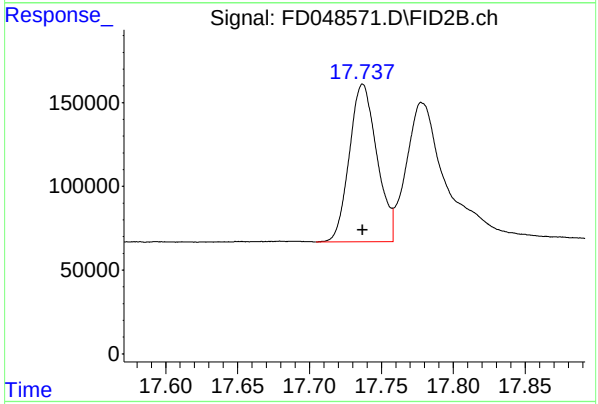
R.T.: 16.026 min
Delta R.T.: 0.000 min
Response: 1579300
Conc: 10.61 ug/ml

Instrument :
FID_D
ClientSampleId :
10 PPM AROMATIC HC STD4



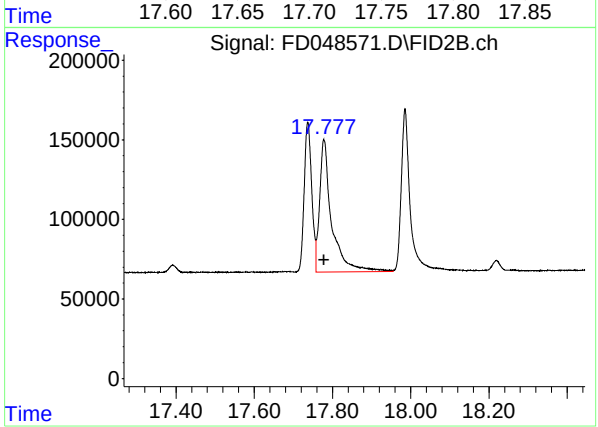
#18 Benzo[a]pyrene (C31.34)

R.T.: 16.374 min
Delta R.T.: 0.000 min
Response: 1518079
Conc: 10.07 ug/ml



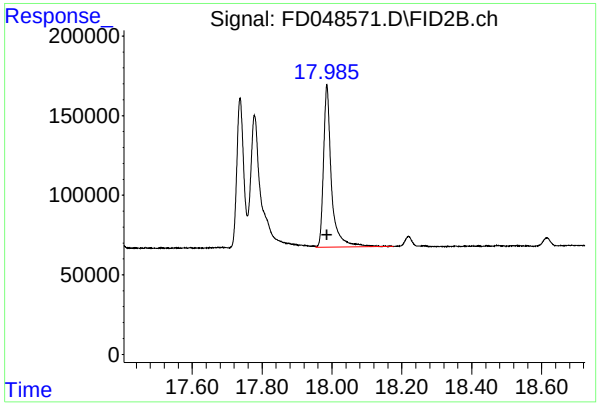
#19 Indeno[1,2,3-cd]pyrene (C35.01)

R.T.: 17.737 min
Delta R.T.: 0.000 min
Response: 1259393
Conc: 9.34 ug/ml



#20 Dibenz[a,h]anthracene (C30.36)

R.T.: 17.779 min
Delta R.T.: 0.000 min
Response: 1780079
Conc: 11.21 ug/ml



#21 Benzo[g,h,i]perylene (C34.01)

R.T.: 17.986 min
Delta R.T.: 0.000 mi
Response: 1603528
Conc: 10.46 ug/m

Instrument :
FID_D
ClientSampleId :
10 PPM AROMATIC HC STD4

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD102324AR\
Data File : FD048571.D
Signal(s) : FID2B.ch
Acq On : 23 Oct 2024 17:02
Sample : 10 PPM AROMATIC HC STD4
Misc :
ALS Vial : 64 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 102324.M
Title : GC Extractables

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.196	4.161	4.261	BV	201703	1780007	96.81%	5.205%
2	5.714	5.488	5.858	BB	181375	1822653	99.13%	5.330%
3	6.760	6.701	6.885	BB	175216	1826622	99.35%	5.341%
4	7.373	7.238	7.461	BB	154245	1535833	83.53%	4.491%
5	8.025	7.978	8.145	BB	181606	1809718	98.43%	5.292%
6	8.224	8.155	8.295	BV	87703	998081	54.28%	2.918%
7	8.318	8.295	8.431	VV	180640	1838643	100.00%	5.376%
8	9.098	8.978	9.208	BB	155949	1719817	93.54%	5.029%
9	10.484	10.385	10.533	BV	153275	1680489	91.40%	4.914%
10	10.560	10.533	10.735	VB	125868	1635709	88.96%	4.783%
11	11.257	11.068	11.325	BB	168238	1758096	95.62%	5.141%
12	12.288	12.258	12.415	BB	138726	1671203	90.89%	4.887%
13	12.581	12.518	12.645	BV	140018	1639022	89.14%	4.793%
14	14.450	14.421	14.470	PV	124977	1472368	80.08%	4.305%
15	14.491	14.470	14.645	VB	122848	1725560	93.85%	5.046%
16	15.995	15.961	16.010	BV	131640	1544713	84.01%	4.517%
17	16.026	16.010	16.151	VB	114804	1579300	85.89%	4.618%
18	16.374	16.205	16.468	BV	111460	1518079	82.57%	4.439%
19	17.737	17.705	17.758	BV	94271	1259393	68.50%	3.683%
20	17.779	17.758	17.955	VV	83223	1780079	96.81%	5.205%
21	17.986	17.955	18.175	VB	101691	1603528	87.21%	4.689%
			Sum of corrected areas:			34198912		

Aromatic EPH 102324.M Wed Oct 23 18:19:08 2024

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

Lab Sample ID:	5 PPM AROMATIC HC S	Acq On:	23 Oct 2024 17:38
Client Sample ID:		Operator:	YP/AJ
Data file:	FD048572.D	Misc:	
Instrument:	FID_D	ALS Vial:	65
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aromatic C10-C12	4.095	5.813	1773971.000	10.000	ug/ml
Aromatic C12-C16	5.814	8.419	2683618.000	15.000	ug/ml
Aromatic C16-C21	8.420	12.681	3268126.000	20.000	ug/ml
Aromatic C21-C36	12.682	18.087	6877987.000	45.000	ug/ml
Aromatic EPH	4.095	18.087	14603702.000	90.000	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD102324AR\
Data File : FD048572.D
Signal(s) : FID2B.ch
Acq On : 23 Oct 2024 17:38
Operator : YP/AJ
Sample : 5 PPM AROMATIC HC STD5
Misc :
ALS Vial : 65 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
5 PPM AROMATIC HC STD5

Integration File: autoint1.e
Quant Time: Oct 23 18:14:13 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 18:14:05 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
4) S	2-Bromonaphthalene (S...	7.375	765966	5.047 ug/ml
Spiked Amount	50.000		Recovery =	10.09%
6) S	2-Flurobiphenyl (SURR)	8.228	453280	4.616 ug/ml
Spiked Amount	50.000 Range	0 - 131	Recovery =	9.23%
11) S	ortho-Terphenyl (SURR)	11.257	878976	5.160 ug/ml
Spiked Amount	50.000		Recovery =	10.32%
	Target Compounds			
1) T	1,2,3-Trimethylbenzen...	4.197	891941	5.127 ug/ml
2) T	Naphthalene (C11.7)	5.716	882030	4.943 ug/ml
3) T	2-Methylnaphthalene (...	6.762	888953	4.970 ug/ml
5) T	Acenaphthylene (C15.06)	8.026	887785	5.056 ug/ml
7) T	Acenaphthene (C15.5)	8.319	906880	5.113 ug/ml
8) T	Flouorene (C16.55)	9.101	838419	4.960 ug/ml
9) T	Phenanthrene (C19.36)	10.487	812730	4.917 ug/ml
10) T	Anthracene (C19.43)	10.565	809302	5.061 ug/ml
12) T	Fluoranthene (C21.85)	12.291	849157	5.160 ug/ml
13) T	Pyrene (C20.8)	12.583	807675	5.014 ug/ml
14) T	Benzo[a]anthracene (C...	14.453	671281	4.591 ug/ml
15) T	Chrysene (C27.41)	14.493	886842	5.391 ug/ml
16) T	benzo[b]fluoranthene ...	15.998	725025	4.769 ug/ml
17) T	Bnezo[k]fluoranthene ...	16.030	780831	5.195 ug/ml
18) T	Benzo[a]pyrene (C31.34)	16.381	746043	4.957 ug/ml
19) T	Indeno[1,2,3-cd]pyren...	17.744	565150	4.331 ug/ml
20) T	Dibenz[a,h]anthracene...	17.787	892102	5.482 ug/ml
21) T	Benzo[g,h,i]perylene ...	17.990	761556	4.974 ug/ml

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

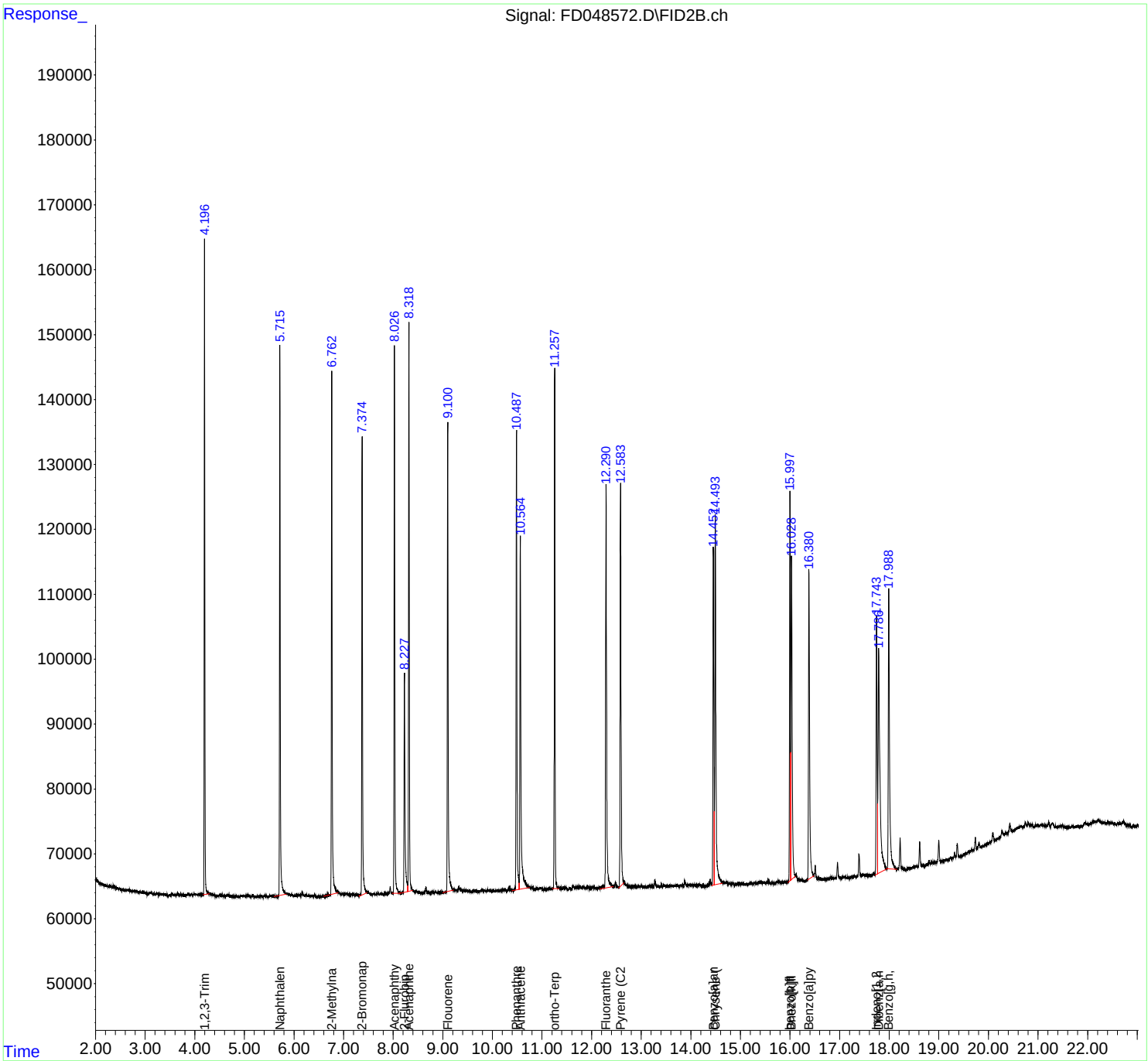
Quantitation Report (QT Reviewed)

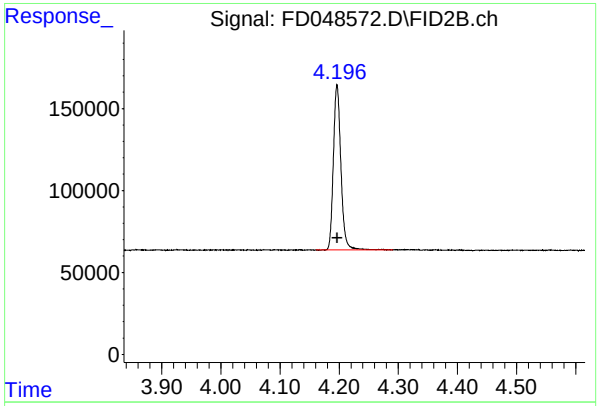
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD102324AR\
Data File : FD048572.D
Signal(s) : FID2B.ch
Acq On : 23 Oct 2024 17:38
Operator : YP/AJ
Sample : 5 PPM AROMATIC HC STD5
Misc :
ALS Vial : 65 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
5 PPM AROMATIC HC STD5

Integration File: autoint1.e
Quant Time: Oct 23 18:14:13 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 18:14:05 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

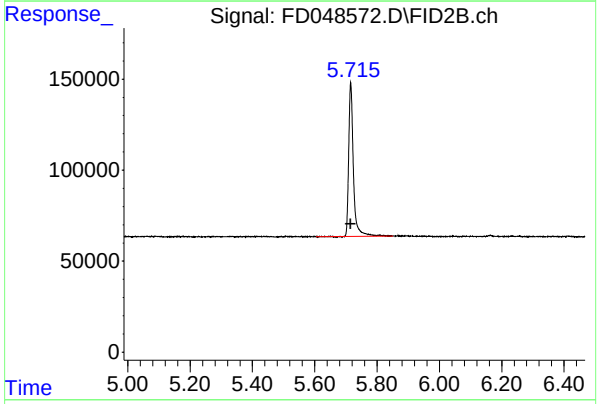




#1 1,2,3-Trimethylbenzene (C10.1)

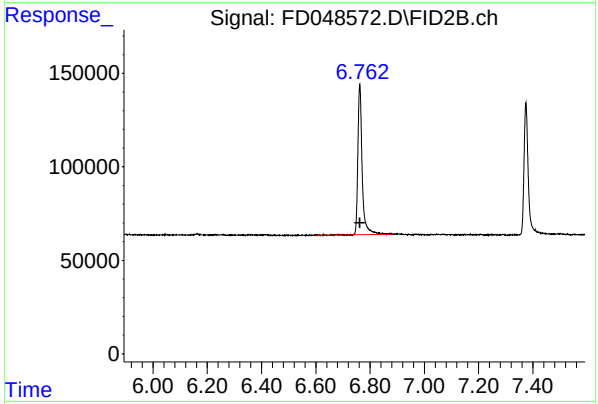
R.T.: 4.197 min
Delta R.T.: 0.000 min
Response: 891941
Conc: 5.13 ug/ml

Instrument :
FID_D
ClientSampleId :
5 PPM AROMATIC HC STD5



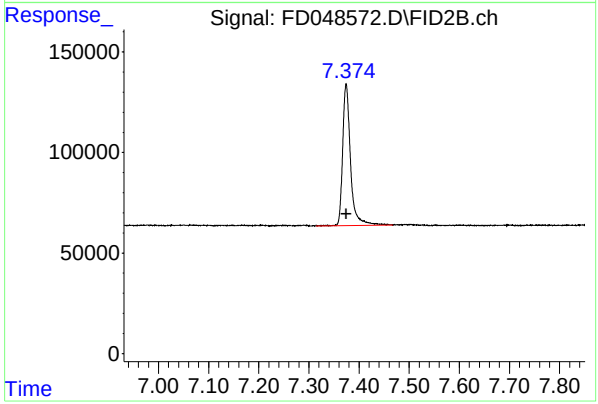
#2 Naphthalene (C11.7)

R.T.: 5.716 min
Delta R.T.: 0.000 min
Response: 882030
Conc: 4.94 ug/ml



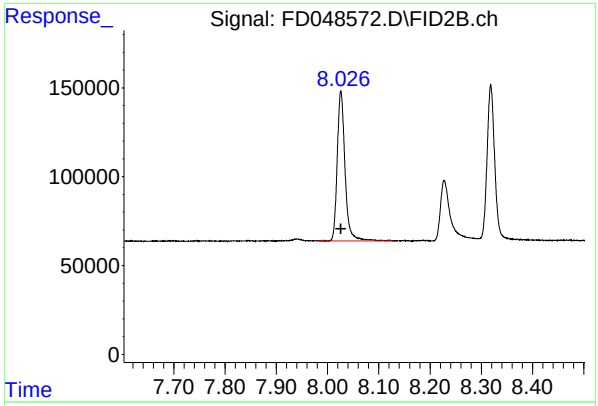
#3 2-Methylnaphthalene (C12.89)

R.T.: 6.762 min
Delta R.T.: 0.000 min
Response: 888953
Conc: 4.97 ug/ml



#4 2-Bromonaphthalene (SURR)

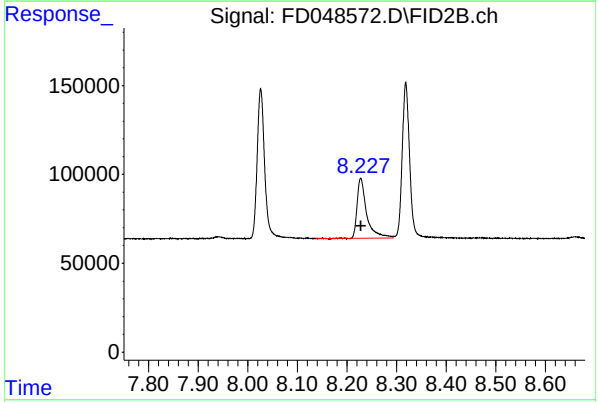
R.T.: 7.375 min
Delta R.T.: 0.000 min
Response: 765966
Conc: 5.05 ug/ml



#5 Acenaphthylene (C15.06)

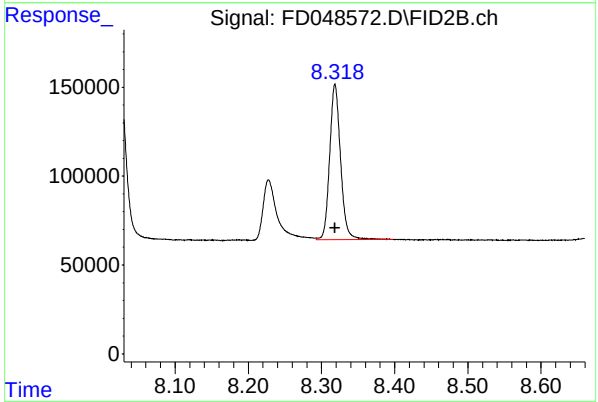
R.T.: 8.026 min
Delta R.T.: 0.000 min
Response: 887785
Conc: 5.06 ug/ml

Instrument :
FID_D
ClientSampleId :
5 PPM AROMATIC HC STD5



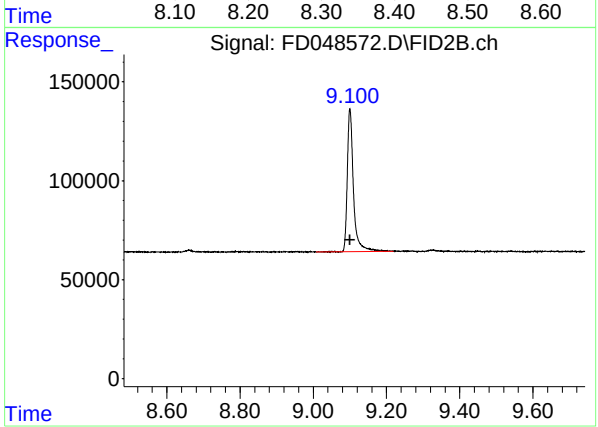
#6 2-Flurobiphenyl (SURR)

R.T.: 8.228 min
Delta R.T.: 0.000 min
Response: 453280
Conc: 4.62 ug/ml



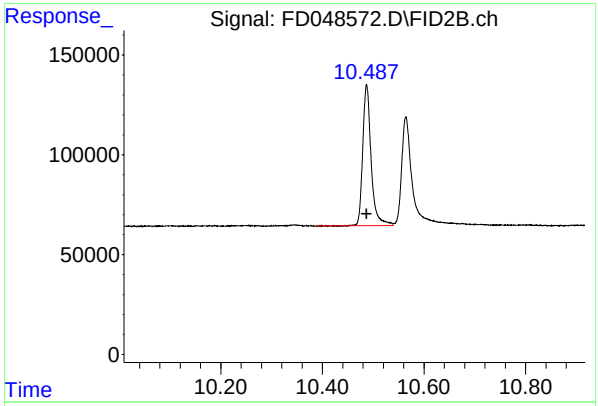
#7 Acenaphthene (C15.5)

R.T.: 8.319 min
Delta R.T.: 0.000 min
Response: 906880
Conc: 5.11 ug/ml



#8 Flouorene (C16.55)

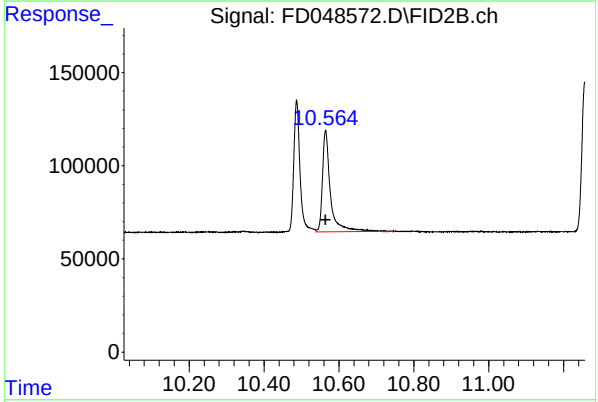
R.T.: 9.101 min
Delta R.T.: 0.000 min
Response: 838419
Conc: 4.96 ug/ml



#9 Phenanthrene (C19.36)

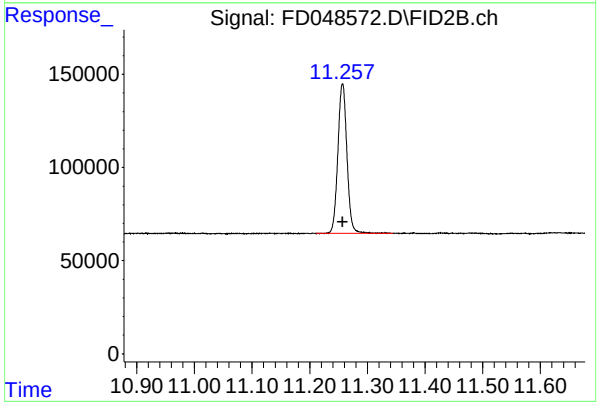
R.T.: 10.487 min
Delta R.T.: 0.000 min
Response: 812730
Conc: 4.92 ug/ml

Instrument :
FID_D
ClientSampleId :
5 PPM AROMATIC HC STD5



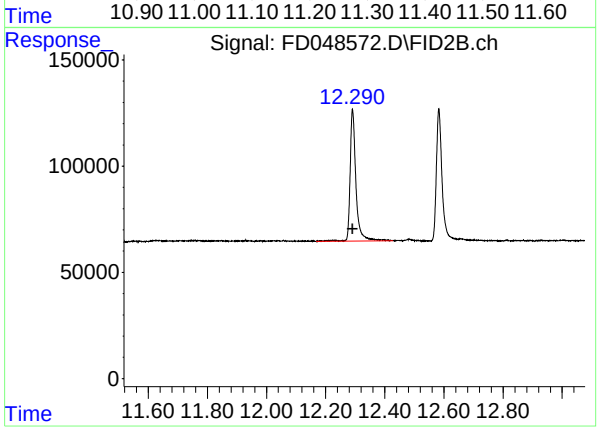
#10 Anthracene (C19.43)

R.T.: 10.565 min
Delta R.T.: 0.000 min
Response: 809302
Conc: 5.06 ug/ml



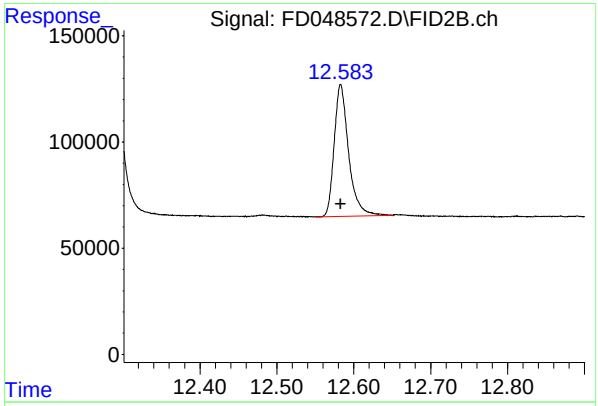
#11 ortho-Terphenyl (SURR)

R.T.: 11.257 min
Delta R.T.: 0.000 min
Response: 878976
Conc: 5.16 ug/ml



#12 Fluoranthene (C21.85)

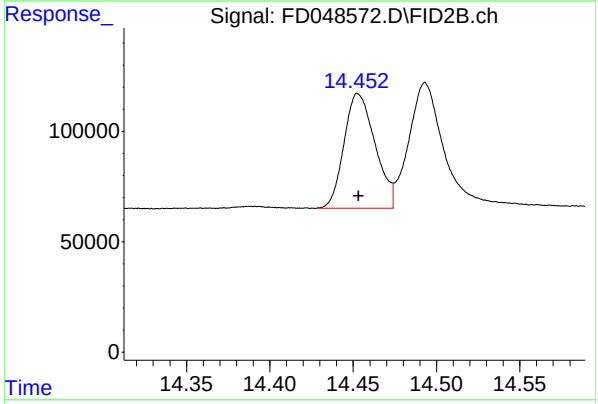
R.T.: 12.291 min
Delta R.T.: 0.000 min
Response: 849157
Conc: 5.16 ug/ml



#13 Pyrene (C20.8)

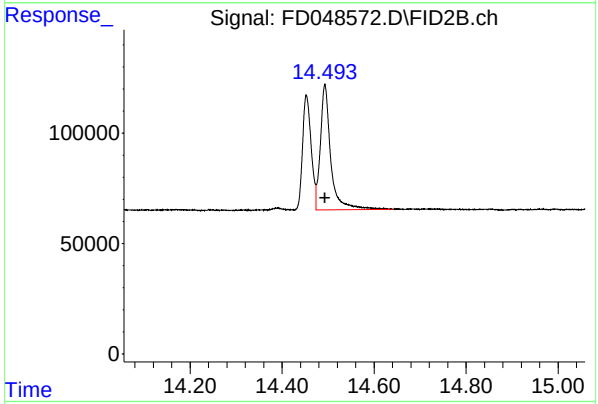
R.T.: 12.583 min
Delta R.T.: 0.000 min
Response: 807675
Conc: 5.01 ug/ml

Instrument :
FID_D
ClientSampleId :
5 PPM AROMATIC HC STD5



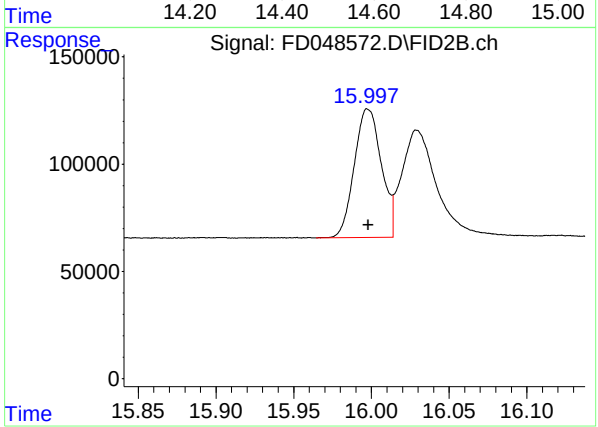
#14 Benzo[a]anthracene (C26.37)

R.T.: 14.453 min
Delta R.T.: 0.000 min
Response: 671281
Conc: 4.59 ug/ml



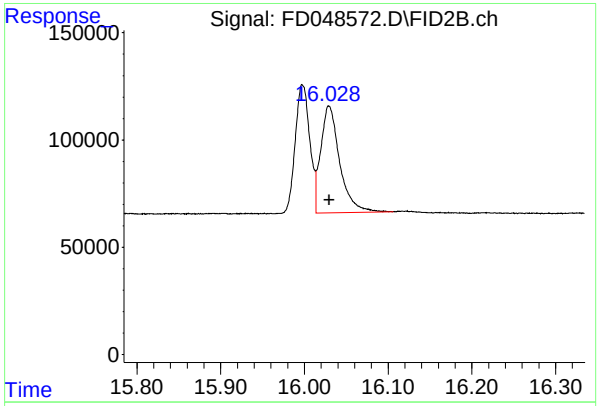
#15 Chrysene (C27.41)

R.T.: 14.493 min
Delta R.T.: 0.000 min
Response: 886842
Conc: 5.39 ug/ml



#16 benzo[b]fluoranthene (C30.41)

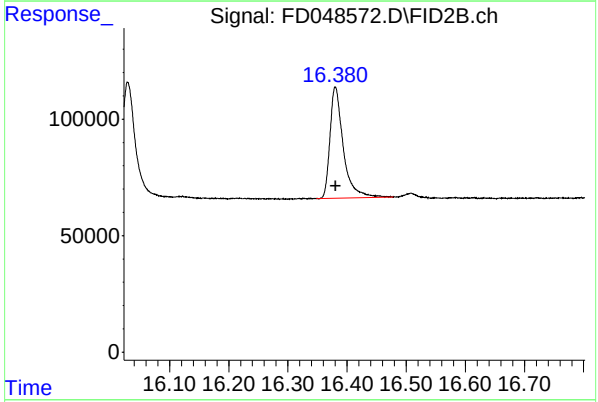
R.T.: 15.998 min
Delta R.T.: 0.000 min
Response: 725025
Conc: 4.77 ug/ml



#17 Bnezo[k]fluoranthene (C30.14)

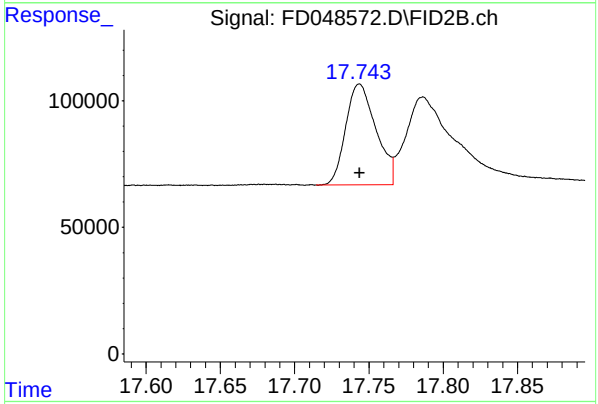
R.T.: 16.030 min
Delta R.T.: 0.000 min
Response: 780831
Conc: 5.20 ug/ml

Instrument :
FID_D
ClientSampleId :
5 PPM AROMATIC HC STD5



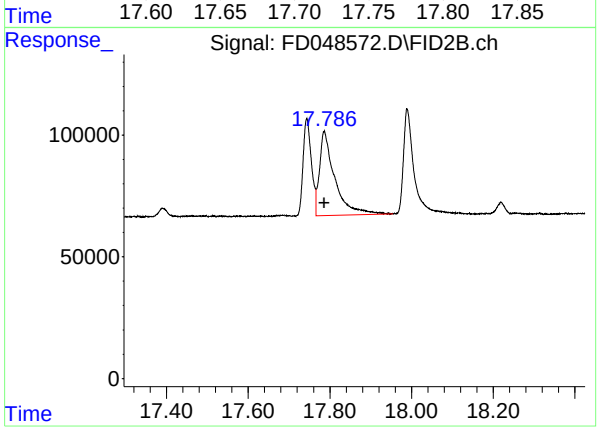
#18 Benzo[a]pyrene (C31.34)

R.T.: 16.381 min
Delta R.T.: 0.000 min
Response: 746043
Conc: 4.96 ug/ml



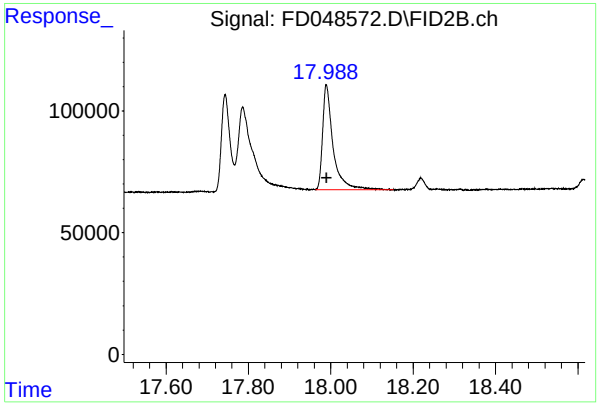
#19 Indeno[1,2,3-cd]pyrene (C35.01)

R.T.: 17.744 min
Delta R.T.: 0.000 min
Response: 565150
Conc: 4.33 ug/ml



#20 Dibenz[a,h]anthracene (C30.36)

R.T.: 17.787 min
Delta R.T.: 0.000 min
Response: 892102
Conc: 5.48 ug/ml



#21 Benzo[g,h,i]perylene (C34.01)

R.T.: 17.990 min
Delta R.T.: 0.000 mi
Response: 761556
Conc: 4.97 ug/m

Instrument :
FID_D
ClientSampleId :
5 PPM AROMATIC HC STD5

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD102324AR\
Data File : FD048572.D
Signal(s) : FID2B.ch
Acq On : 23 Oct 2024 17:38
Sample : 5 PPM AROMATIC HC STD5
Misc :
ALS Vial : 65 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 102324.M
Title : GC Extractables

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.197	4.161	4.291	BB	99856	891941	98.35%	5.340%
2	5.716	5.604	5.851	BB	84500	882030	97.26%	5.281%
3	6.762	6.601	6.884	BB	80288	888953	98.02%	5.322%
4	7.375	7.314	7.468	BB	70282	765966	84.46%	4.586%
5	8.026	7.978	8.128	BB	83372	887785	97.89%	5.315%
6	8.228	8.138	8.293	BV	33723	453280	49.98%	2.714%
7	8.319	8.293	8.398	VB	87190	906880	100.00%	5.430%
8	9.101	9.008	9.218	BB	71759	838419	92.45%	5.020%
9	10.487	10.388	10.539	BV	70612	812730	89.62%	4.866%
10	10.565	10.539	10.744	VB	54403	809302	89.24%	4.846%
11	11.257	11.211	11.344	BB	80592	878976	96.92%	5.263%
12	12.291	12.168	12.428	BB	61860	849157	93.64%	5.084%
13	12.583	12.551	12.651	BV	61467	807675	89.06%	4.836%
14	14.453	14.428	14.474	PV	51289	671281	74.02%	4.019%
15	14.493	14.474	14.641	VB	56549	886842	97.79%	5.310%
16	15.998	15.964	16.014	BV	60013	725025	79.95%	4.341%
17	16.030	16.014	16.106	VV	49388	780831	86.10%	4.675%
18	16.381	16.348	16.478	BV	47621	746043	82.26%	4.467%
19	17.744	17.714	17.766	BV	39855	565150	62.32%	3.384%
20	17.787	17.766	17.954	VB	34397	892102	98.37%	5.341%
21	17.990	17.964	18.151	BB	42474	761556	83.98%	4.560%
			Sum of corrected areas:			16701921		

Aromatic EPH 102324.M Wed Oct 23 18:19:26 2024

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

Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	20 PPM AROMATIC HC S	Acq On:	23 Oct 2024 18:14
Client Sample ID:	20 PPM AROMATIC HC S	Operator:	YP/AJ
Data file:	FD048573.D	Misc:	
Instrument:	FID_D	ALS Vial:	66
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.095	5.813	7133973	40.487	200	ug/ml
Aromatic C12-C16	5.814	8.419	10745232	60.614	300	ug/ml
Aromatic C16-C21	8.420	12.681	16489725	100.65	500	ug/ml
Aromatic C21-C36	12.682	18.087	24373102	159.601	800	ug/ml
Aromatic EPH	4.095	18.087	58742032	361.352		ug/ml
2-Bromonaphthalene (SURR)	7.372	7.372	3035391	20		ug/ml
2-Flurobiphenyl (SURR)	8.222	8.222	2009011	20.46		ug/ml
ortho-Terphenyl (SURR)	11.258	11.258	3418196	20.07		ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD102324AR\
Data File : FD048573.D
Signal(s) : FID2B.ch
Acq On : 23 Oct 2024 18:14
Operator : YP/AJ
Sample : 20 PPM AROMATIC HC STD ICV
Misc :
ALS Vial : 66 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD ICV

Integration File: autoint1.e
Quant Time: Oct 23 18:50:32 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 18:14:59 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
4) S	2-Bromonaphthalene (S...	7.372	3035391	19.999 ug/ml
Spiked Amount	50.000		Recovery =	40.00%
6) S	2-Flurobiphenyl (SURR)	8.222	2009011	20.460 ug/ml
Spiked Amount	50.000 Range	0 - 131	Recovery =	40.92%
11) S	ortho-Terphenyl (SURR)	11.258	3418196	20.067 ug/ml
Spiked Amount	50.000		Recovery =	40.13%
	Target Compounds			
1) T	1,2,3-Trimethylbenzen...	4.195	3511974	20.187 ug/ml
2) T	Naphthalene (C11.7)	5.713	3621999	20.299 ug/ml
3) T	2-Methylnaphthalene (...	6.760	3629138	20.290 ug/ml
5) T	Acenaphthylene (C15.06)	8.025	3549708	20.216 ug/ml
7) T	Acenaphthene (C15.5)	8.319	3566386	20.108 ug/ml
8) T	Flouorene (C16.55)	9.098	3449130	20.405 ug/ml
9) T	Phenanthrene (C19.36)	10.485	3337748	20.191 ug/ml
10) T	Anthracene (C19.43)	10.560	3166872	19.804 ug/ml
12) T	Fluoranthene (C21.85)	12.288	3304952	20.082 ug/ml
13) T	Pyrene (C20.8)	12.581	3231023	20.059 ug/ml
14) T	Benzo[a]anthracene (C...	14.450	2986450	20.425 ug/ml
15) T	Chrysene (C27.41)	14.492	3268283	19.869 ug/ml
16) T	benzo[b]fluoranthene ...	15.997	3076351	20.235 ug/ml
17) T	Bnezo[k]fluoranthene ...	16.029	3007230	20.008 ug/ml
18) T	Benzo[a]pyrene (C31.34)	16.372	3055729	20.304 ug/ml
19) T	Indeno[1,2,3-cd]pyren...	17.737	2639364	20.228 ug/ml
20) T	Dibenz[a,h]anthracene...	17.776	3309486	20.337 ug/ml
21) T	Benzo[g,h,i]perylene ...	17.987	3030209	19.793 ug/ml

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

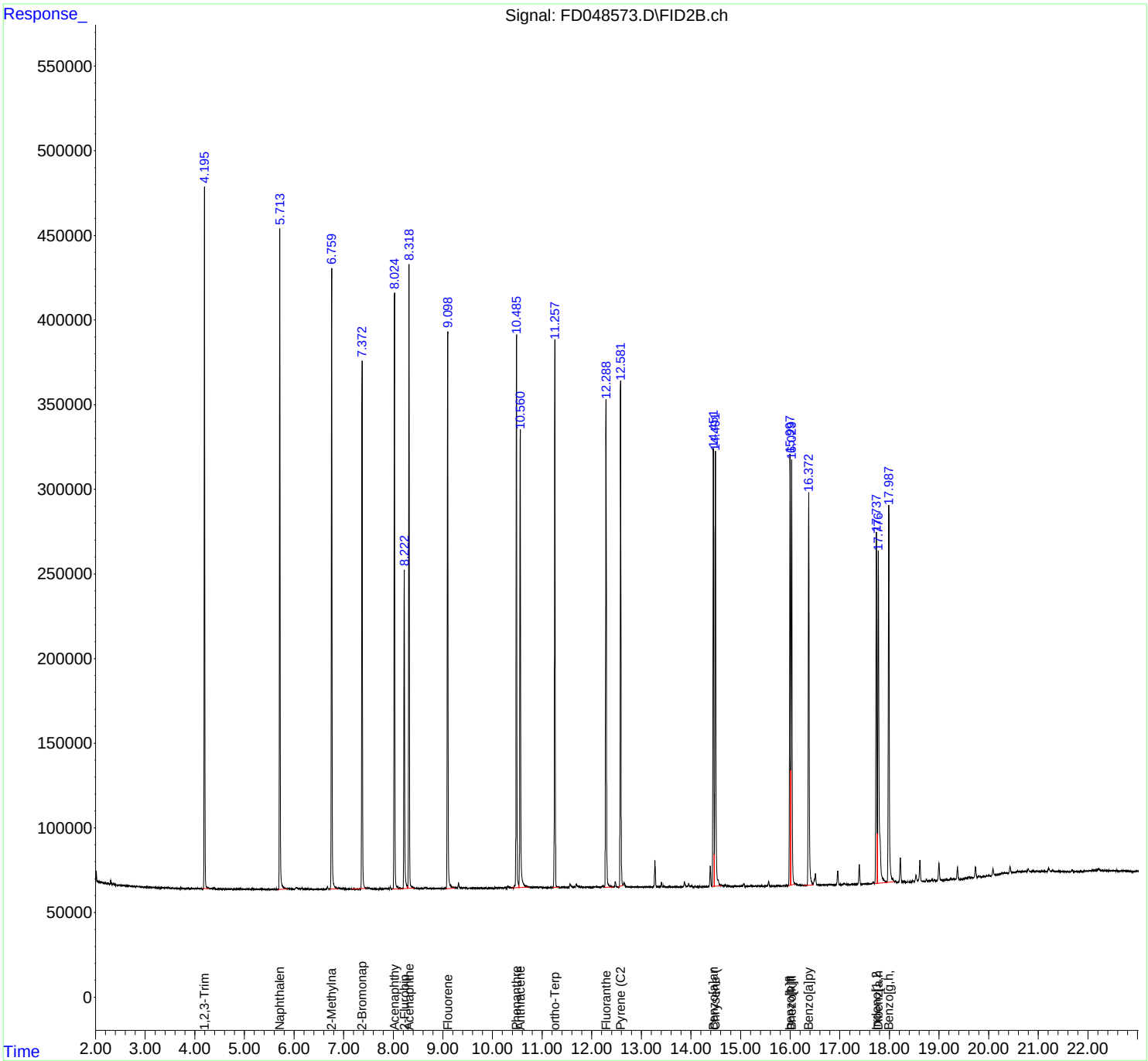
Quantitation Report (QT Reviewed)

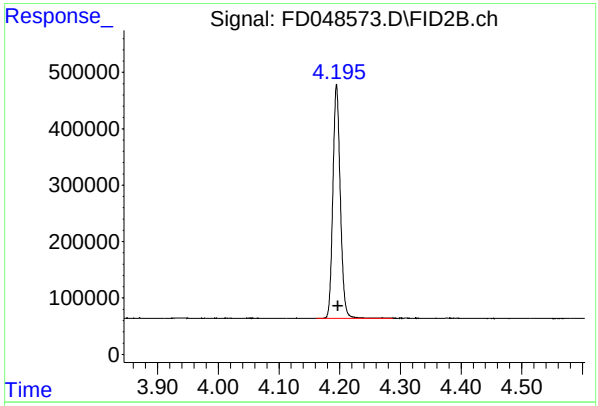
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD102324AR\
Data File : FD048573.D
Signal(s) : FID2B.ch
Acq On : 23 Oct 2024 18:14
Operator : YP/AJ
Sample : 20 PPM AROMATIC HC STD ICV
Misc :
ALS Vial : 66 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD ICV

Integration File: autoint1.e
Quant Time: Oct 23 18:50:32 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 18:14:59 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

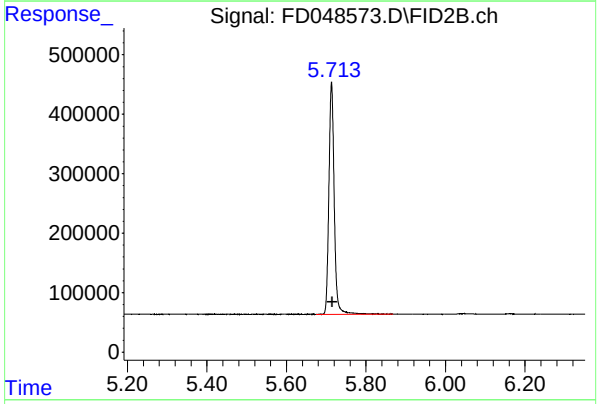




#1 1,2,3-Trimethylbenzene (C10.1)

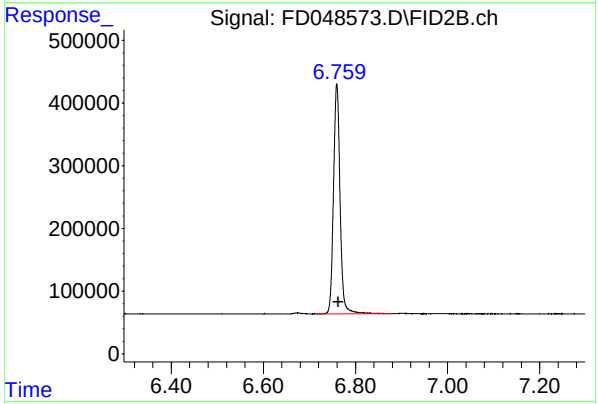
R.T.: 4.195 min
Delta R.T.: -0.002 mi
Response: 3511974
Conc: 20.19 ug/m

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD ICV



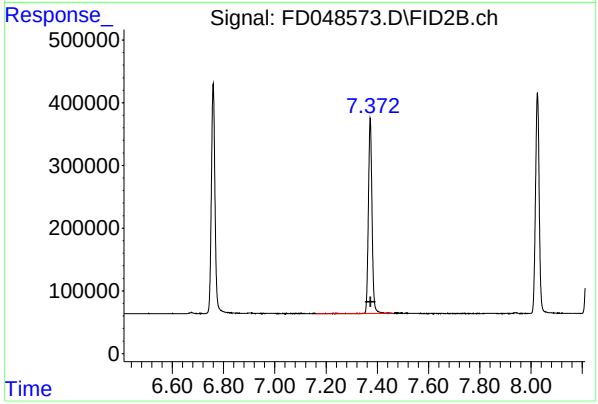
#2 Naphthalene (C11.7)

R.T.: 5.713 min
Delta R.T.: -0.002 min
Response: 3621999
Conc: 20.30 ug/ml



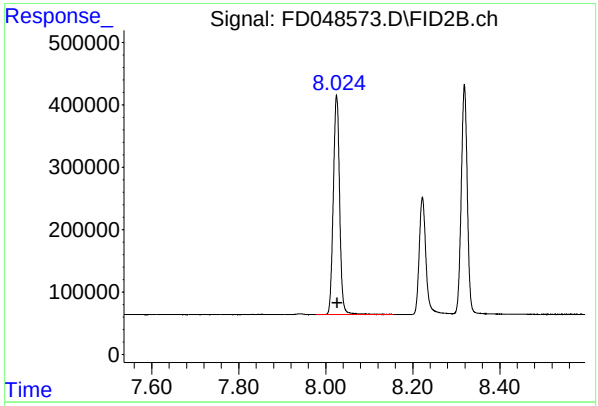
#3 2-Methylnaphthalene (C12.89)

R.T.: 6.760 min
Delta R.T.: -0.003 min
Response: 3629138
Conc: 20.29 ug/ml



#4 2-Bromonaphthalene (SURR)

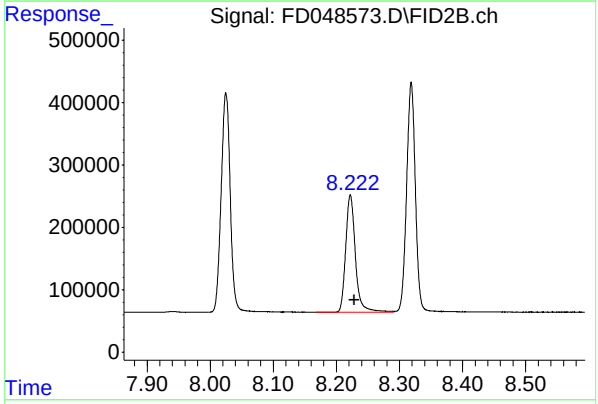
R.T.: 7.372 min
Delta R.T.: -0.002 min
Response: 3035391
Conc: 20.00 ug/ml



#5 Acenaphthylene (C15.06)

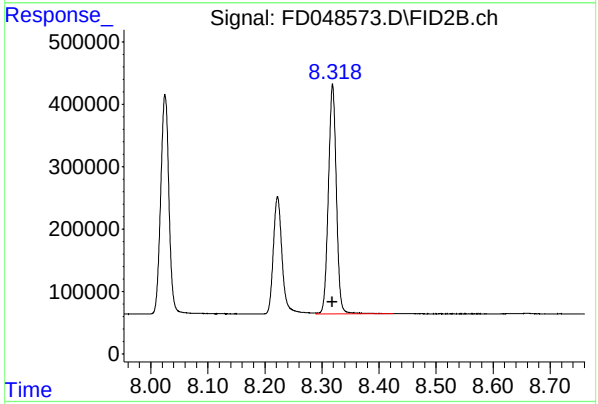
R.T.: 8.025 min
Delta R.T.: -0.001 min
Response: 3549708
Conc: 20.22 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD ICV



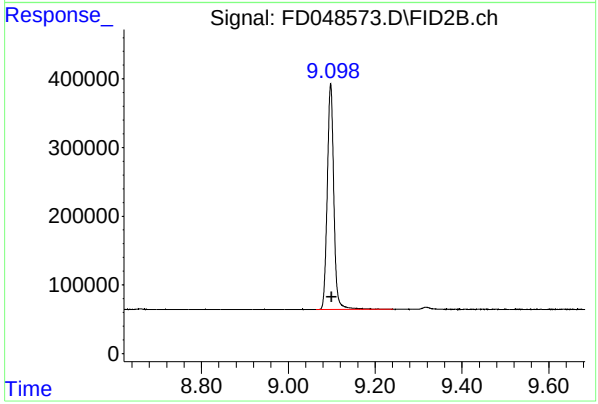
#6 2-Flurobiphenyl (SURR)

R.T.: 8.222 min
Delta R.T.: -0.006 min
Response: 2009011
Conc: 20.46 ug/ml



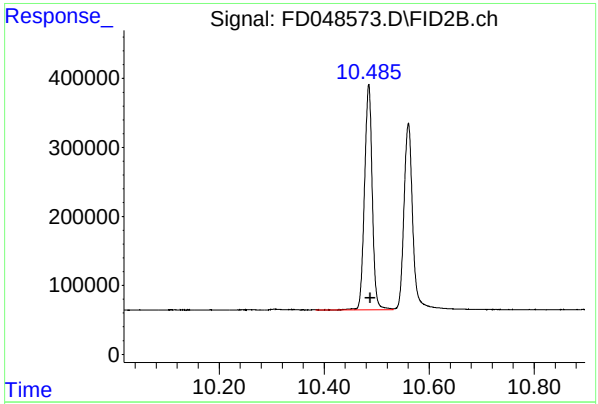
#7 Acenaphthene (C15.5)

R.T.: 8.319 min
Delta R.T.: 0.000 min
Response: 3566386
Conc: 20.11 ug/ml



#8 Flouorene (C16.55)

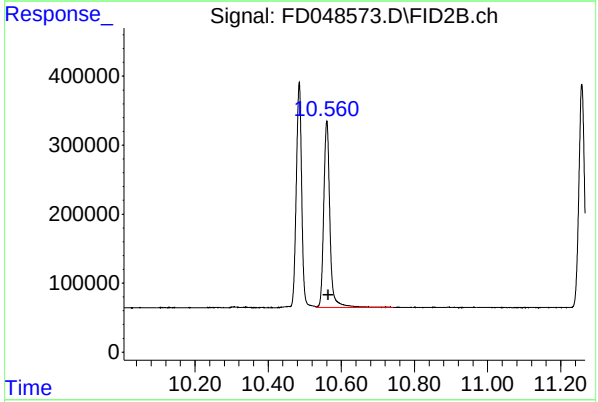
R.T.: 9.098 min
Delta R.T.: -0.003 min
Response: 3449130
Conc: 20.40 ug/ml



#9 Phenanthrene (C19.36)

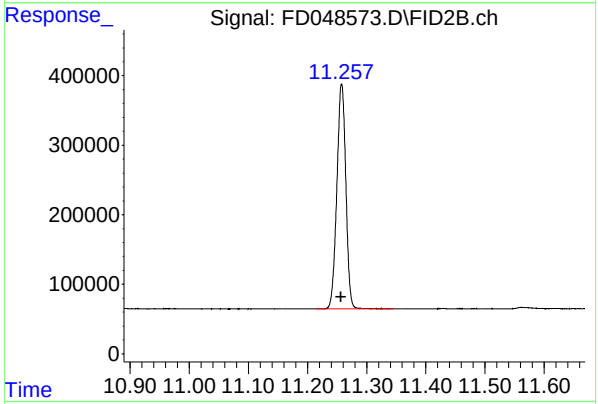
R.T.: 10.485 min
Delta R.T.: -0.003 min
Response: 3337748
Conc: 20.19 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD ICV



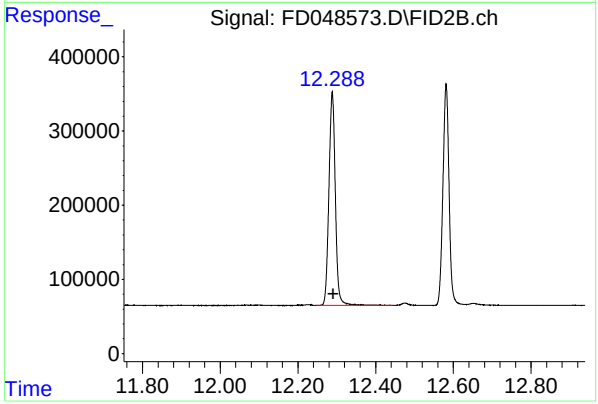
#10 Anthracene (C19.43)

R.T.: 10.560 min
Delta R.T.: -0.004 min
Response: 3166872
Conc: 19.80 ug/ml



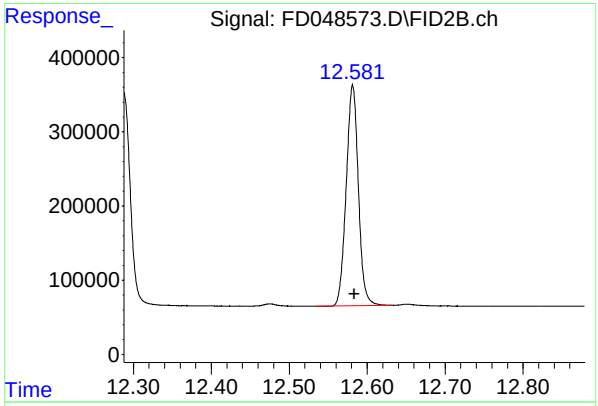
#11 ortho-Terphenyl (SURR)

R.T.: 11.258 min
Delta R.T.: 0.000 min
Response: 3418196
Conc: 20.07 ug/ml



#12 Fluoranthene (C21.85)

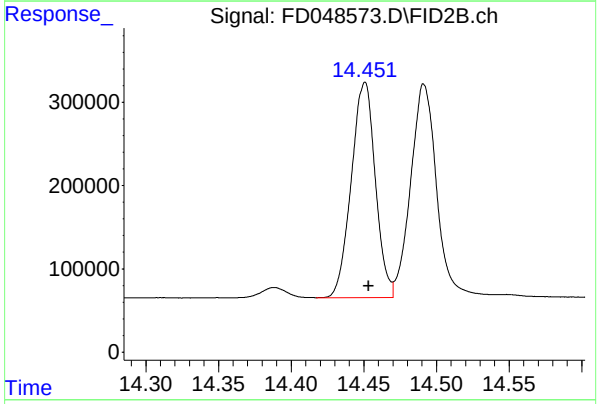
R.T.: 12.288 min
Delta R.T.: -0.003 min
Response: 3304952
Conc: 20.08 ug/ml



#13 Pyrene (C20.8)

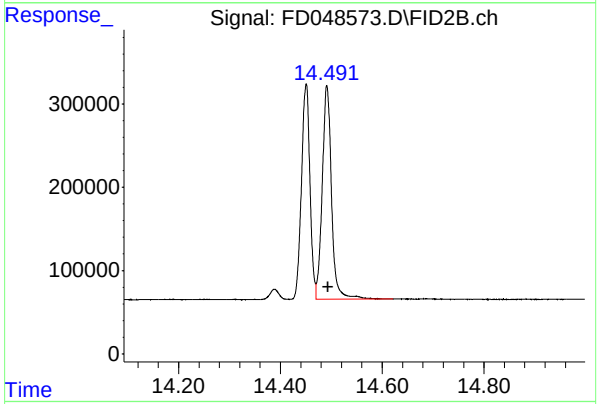
R.T.: 12.581 min
Delta R.T.: -0.002 min
Response: 3231023
Conc: 20.06 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD ICV



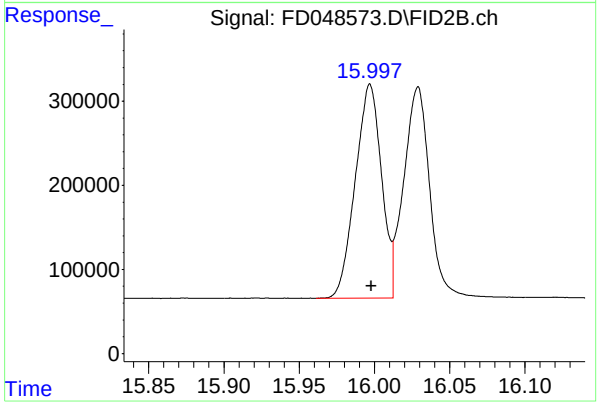
#14 Benzo[a]anthracene (C26.37)

R.T.: 14.450 min
Delta R.T.: -0.003 min
Response: 2986450
Conc: 20.42 ug/ml



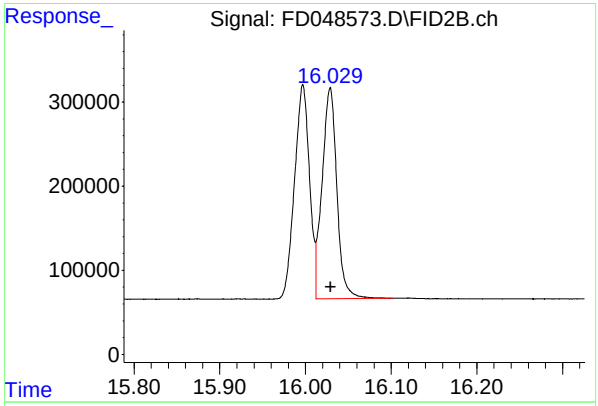
#15 Chrysene (C27.41)

R.T.: 14.492 min
Delta R.T.: -0.002 min
Response: 3268283
Conc: 19.87 ug/ml



#16 benzo[b]fluoranthene (C30.41)

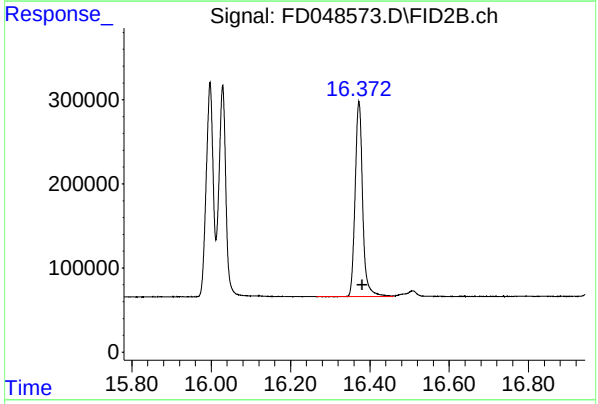
R.T.: 15.997 min
Delta R.T.: 0.000 min
Response: 3076351
Conc: 20.24 ug/ml



#17 Bnezo[k]fluoranthene (C30.14)

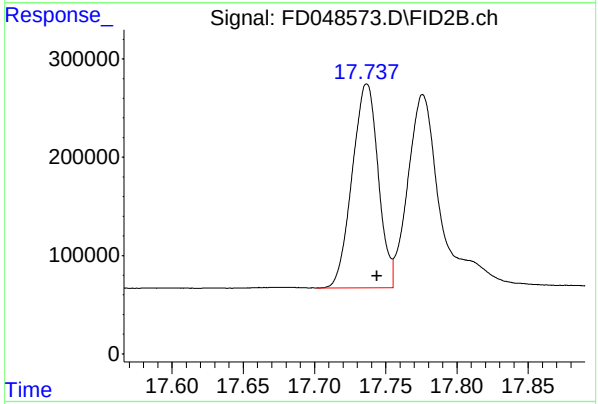
R.T.: 16.029 min
Delta R.T.: 0.000 min
Response: 3007230
Conc: 20.01 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD ICV



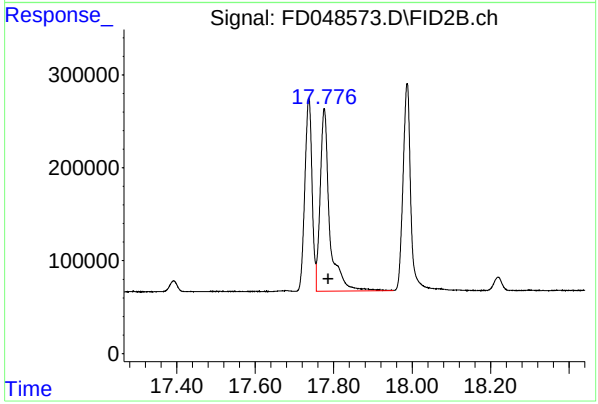
#18 Benzo[a]pyrene (C31.34)

R.T.: 16.372 min
Delta R.T.: -0.008 min
Response: 3055729
Conc: 20.30 ug/ml



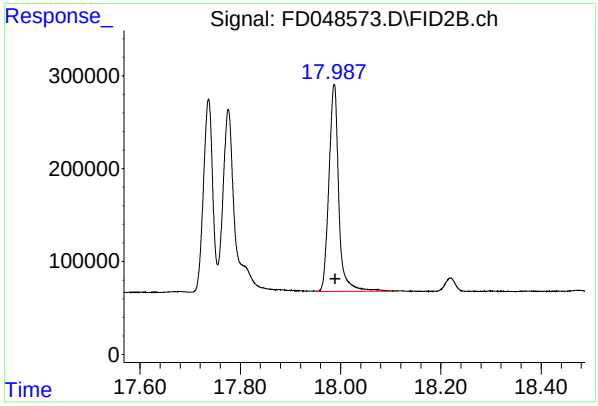
#19 Indeno[1,2,3-cd]pyrene (C35.01)

R.T.: 17.737 min
Delta R.T.: -0.007 min
Response: 2639364
Conc: 20.23 ug/ml



#20 Dibenz[a,h]anthracene (C30.36)

R.T.: 17.776 min
Delta R.T.: -0.011 min
Response: 3309486
Conc: 20.34 ug/ml



#21 Benzo[g,h,i]perylene (C34.01)

R.T.: 17.987 min
Delta R.T.: -0.003 mi
Response: 3030209
Conc: 19.79 ug/m

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD ICV

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD102324AR\
Data File : FD048573.D
Signal(s) : FID2B.ch
Acq On : 23 Oct 2024 18:14
Sample : 20 PPM AROMATIC HC STD ICV
Misc :
ALS Vial : 66 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 102324.M
Title : GC Extractables

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.195	4.161	4.288	BB	411534	3511974	96.77%	5.226%
2	5.713	5.674	5.868	BB	387327	3621999	99.80%	5.390%
3	6.760	6.714	6.881	BV	365701	3629138	100.00%	5.400%
4	7.372	7.161	7.461	BB	308815	3035391	83.64%	4.517%
5	8.025	7.978	8.154	BB	351890	3549708	97.81%	5.282%
6	8.222	8.168	8.290	BV	187045	2009011	55.36%	2.989%
7	8.319	8.290	8.424	VB	365720	3566386	98.27%	5.307%
8	9.098	9.064	9.241	PB	328779	3449130	95.04%	5.132%
9	10.485	10.384	10.531	BV	326000	3337748	91.97%	4.967%
10	10.560	10.531	10.741	VB	271677	3166872	87.26%	4.712%
11	11.258	11.214	11.344	BB	324343	3418196	94.19%	5.086%
12	12.288	12.247	12.444	PB	286640	3304952	91.07%	4.918%
13	12.581	12.534	12.633	BV	297215	3231023	89.03%	4.808%
14	14.450	14.417	14.470	VV	260406	2986450	82.29%	4.444%
15	14.492	14.470	14.621	VB	257062	3268283	90.06%	4.863%
16	15.997	15.961	16.012	BV	254462	3076351	84.77%	4.578%
17	16.029	16.012	16.102	VV	249107	3007230	82.86%	4.475%
18	16.372	16.264	16.458	BV	231238	3055729	84.20%	4.547%
19	17.737	17.701	17.755	BV	208961	2639364	72.73%	3.927%
20	17.776	17.755	17.951	VV	196335	3309486	91.19%	4.924%
21	17.987	17.951	18.104	VV	224512	3030209	83.50%	4.509%

Sum of corrected areas: 67204630

Aromatic EPH 102324.M Wed Oct 23 18:51:40 2024

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

Continuing Calibration Report for SequenceID : FC102824AL

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
File ID :	**FC067534.D**						
Aliphatic C16-C21	7789407.000	60.000	9.843	13.200	129823.450	127235.092	-2.034
Aliphatic C21-C28	9829212.000	80.000	13.201	16.853	122865.150	120090.398	-2.311
Aliphatic C28-C40	12777442.000	120.000	16.854	21.695	106478.683	101093.195	-5.327
Aliphatic EPH	43937898.000	360.000	3.173	21.695	122049.717	118799.912	-2.736
Aliphatic C9-C12	8169484.000	60.000	3.173	6.453	136158.067	135469.641	-0.508
Aliphatic C12-C16	5372353.000	40.000	6.454	9.842	134308.825	131681.730	-1.995

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:	28 Oct 2024 09:16
Client Sample ID:		Operator:	YP/AJ
Data file:	FC067534.D	Misc:	
Instrument:	FID_C	ALS Vial:	2
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aliphatic C9-C12	3.173	6.453	8169484.000	60.000	ug/ml
Aliphatic C12-C16	6.454	9.842	5372353.000	40.000	ug/ml
Aliphatic C16-C21	9.843	13.200	7789407.000	60.000	ug/ml
Aliphatic C21-C28	13.201	16.853	9829212.000	80.000	ug/ml
Aliphatic C28-C40	16.854	21.695	12777442.000	120.000	ug/ml
Aliphatic EPH	3.173	21.695	43937898.000	360.000	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC102824AL\
Data File : FC067534.D
Signal(s) : FID1A.ch
Acq On : 28 Oct 2024 09:16
Operator : YP/AJ
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD

Integration File: sample.E
Quant Time: Oct 29 00:04:23 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 18:12:58 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)	11.493	2944944	20.070 ug/ml
Spiked Amount	50.000		Recovery =	40.14%
12) S	1-chlorooctadecane (S...	12.931	2151054	19.919 ug/ml
Spiked Amount	50.000		Recovery =	39.84%
	Target Compounds			
1) T	n-Nonane (C9)	3.273	2689719	19.965 ug/ml
2) T	n-Decane (C10)	4.338	2739294	20.106 ug/ml
3) T	A~Naphthalene (C11.7)	5.915	2970304	20.044 ug/ml
4) T	n-Dodecane (C12)	6.353	2740471	20.233 ug/ml
5) T	A~2-methylnaphthalene...	6.970	2827262	20.020 ug/ml
6) T	n-Tetradecane (C14)	8.145	2670635	20.346 ug/ml
7) T	n-Hexadecane (C16)	9.742	2701718	20.452 ug/ml
8) T	n-Octadecane (C18)	11.181	2707873	20.497 ug/ml
10) T	n-Eicosane (C20)	12.489	2568750	20.358 ug/ml
11) T	n-Heneicosane (C21)	13.100	2512784	20.361 ug/ml
13) T	n-Docosane (C22)	13.685	2492215	20.353 ug/ml
14) T	n-Tetracosane (C24)	14.786	2467252	20.355 ug/ml
15) T	n-Hexacosane (C26)	15.805	2430324	20.413 ug/ml
16) T	n-Octacosane (C28)	16.753	2439421	20.735 ug/ml
17) T	n-Tricontane (C30)	17.638	2563605	21.209 ug/ml
18) T	n-Dotriacontane (C32)	18.470	2555141	21.595 ug/ml
19) T	n-Tetratriacontane (C34)	19.252	2239051	21.380 ug/ml
20) T	n-Hexatriacontane (C36)	19.990	1905425	20.933 ug/ml
21) T	n-Octatriacontane (C38)	20.711	1783816	20.598 ug/ml
22) T	n-Tetracontane (C40)	21.595	1730404	20.355 ug/ml

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

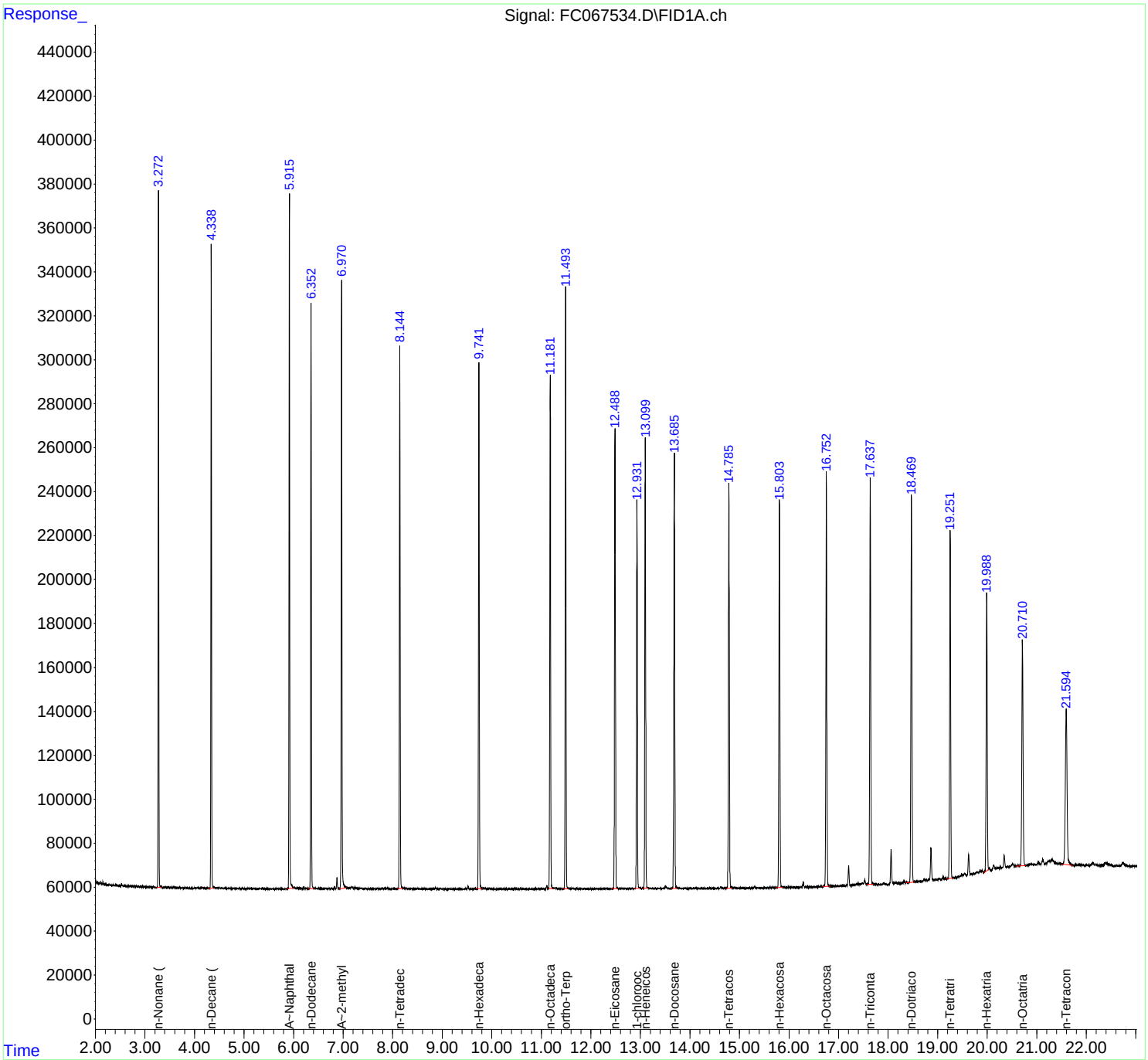
Quantitation Report (QT Reviewed)

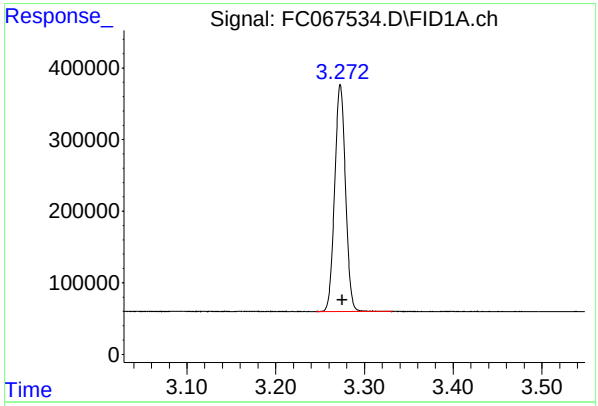
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC102824AL\
Data File : FC067534.D
Signal(s) : FID1A.ch
Acq On : 28 Oct 2024 09:16
Operator : YP/AJ
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD

Integration File: sample.E
Quant Time: Oct 29 00:04:23 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 18:12:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

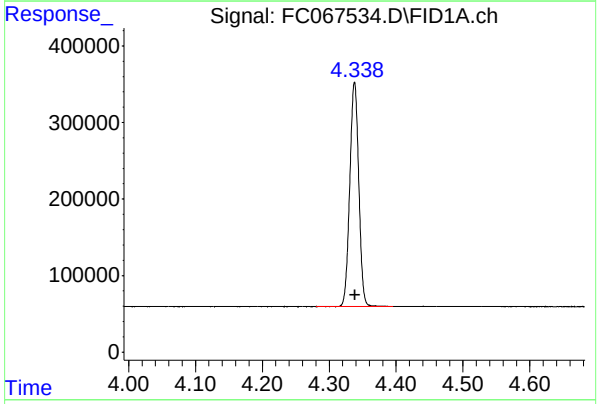




#1 n-Nonane (C9)

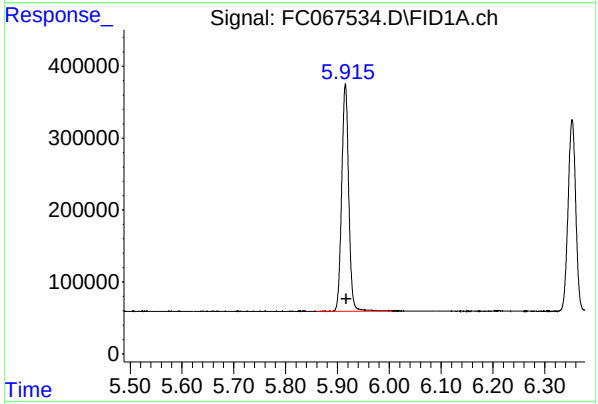
R.T.: 3.273 min
Delta R.T.: -0.002 min
Response: 2689719
Conc: 19.97 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD



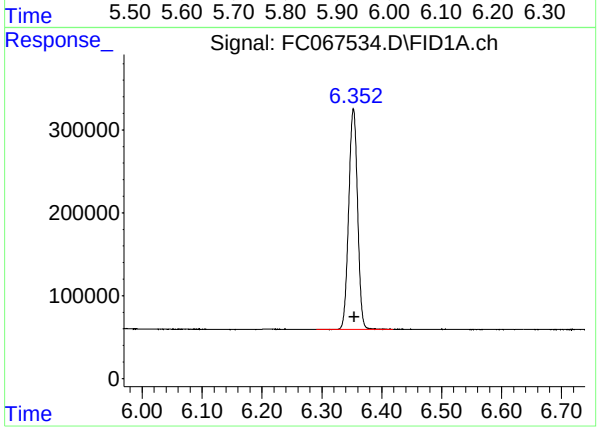
#2 n-Decane (C10)

R.T.: 4.338 min
Delta R.T.: 0.000 min
Response: 2739294
Conc: 20.11 ug/ml



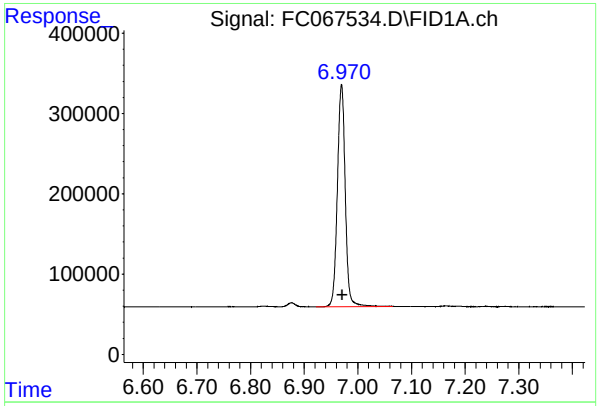
#3 A~Naphthalene (C11.7)

R.T.: 5.915 min
Delta R.T.: -0.002 min
Response: 2970304
Conc: 20.04 ug/ml



#4 n-Dodecane (C12)

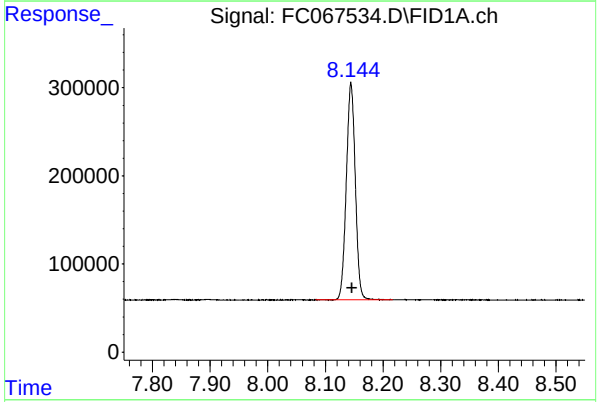
R.T.: 6.353 min
Delta R.T.: 0.000 min
Response: 2740471
Conc: 20.23 ug/ml



#5 A~2-methylnaphthalene (C12.89)

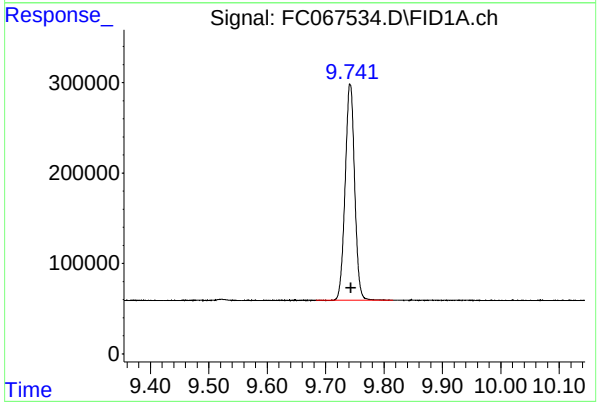
R.T.: 6.970 min
Delta R.T.: -0.002 min
Response: 2827262
Conc: 20.02 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD



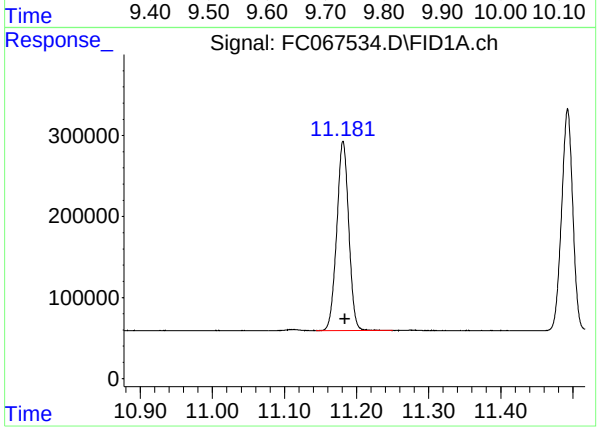
#6 n-Tetradecane (C14)

R.T.: 8.145 min
Delta R.T.: -0.002 min
Response: 2670635
Conc: 20.35 ug/ml



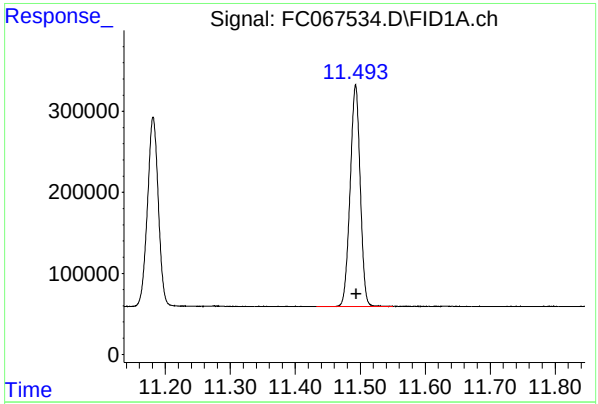
#7 n-Hexadecane (C16)

R.T.: 9.742 min
Delta R.T.: -0.002 min
Response: 2701718
Conc: 20.45 ug/ml



#8 n-Octadecane (C18)

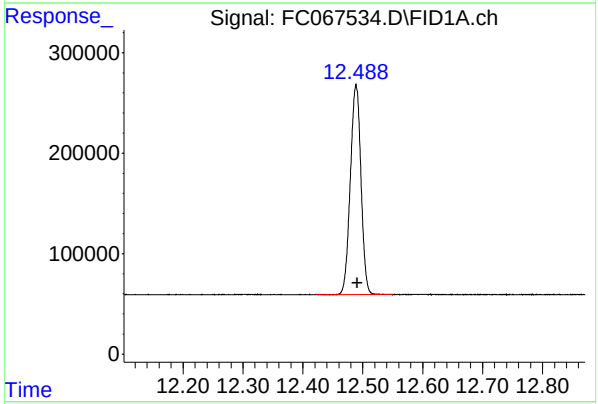
R.T.: 11.181 min
Delta R.T.: -0.002 min
Response: 2707873
Conc: 20.50 ug/ml



#9 ortho-Terphenyl (SURR)

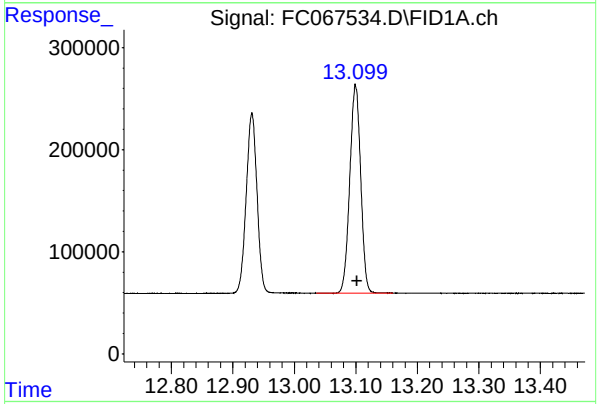
R.T.: 11.493 min
Delta R.T.: -0.001 min
Response: 2944944
Conc: 20.07 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD



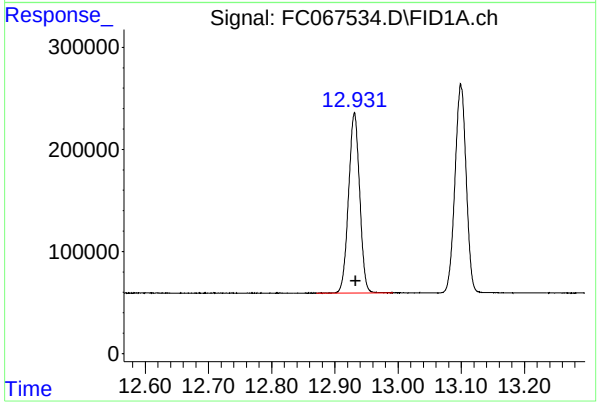
#10 n-Eicosane (C20)

R.T.: 12.489 min
Delta R.T.: -0.002 min
Response: 2568750
Conc: 20.36 ug/ml



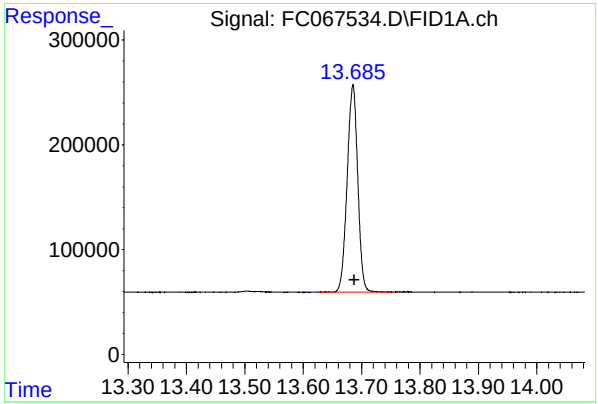
#11 n-Heneicosane (C21)

R.T.: 13.100 min
Delta R.T.: -0.002 min
Response: 2512784
Conc: 20.36 ug/ml



#12 1-chlorooctadecane (SURR)

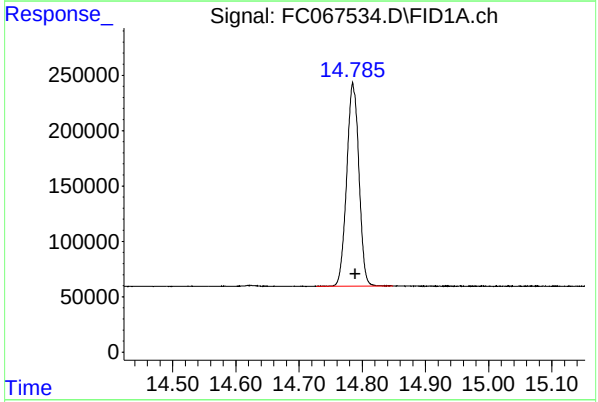
R.T.: 12.931 min
Delta R.T.: -0.002 min
Response: 2151054
Conc: 19.92 ug/ml



#13 n-Docosane (C22)

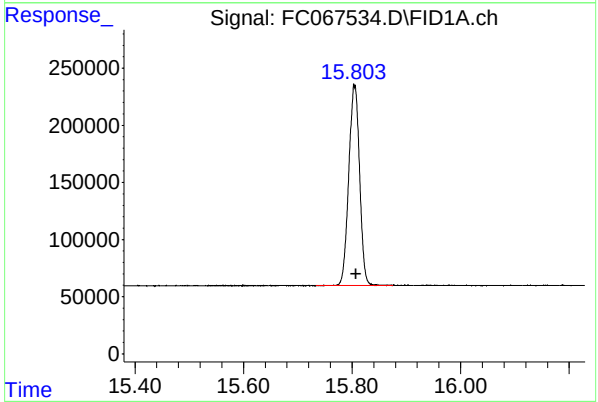
R.T.: 13.685 min
Delta R.T.: -0.002 min
Response: 2492215
Conc: 20.35 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD



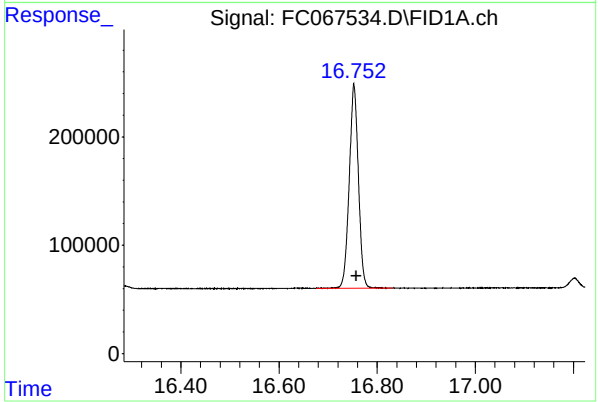
#14 n-Tetracosane (C24)

R.T.: 14.786 min
Delta R.T.: -0.004 min
Response: 2467252
Conc: 20.36 ug/ml



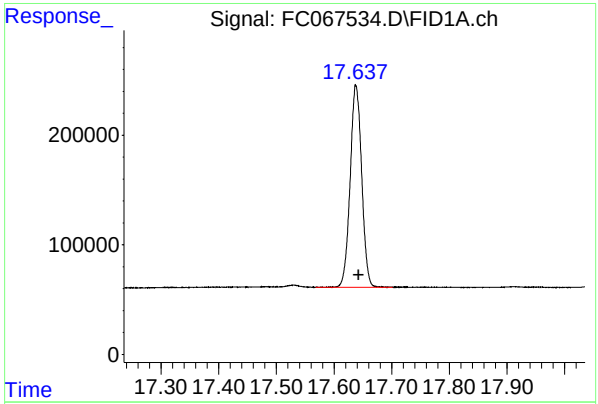
#15 n-Hexacosane (C26)

R.T.: 15.805 min
Delta R.T.: -0.003 min
Response: 2430324
Conc: 20.41 ug/ml



#16 n-Octacosane (C28)

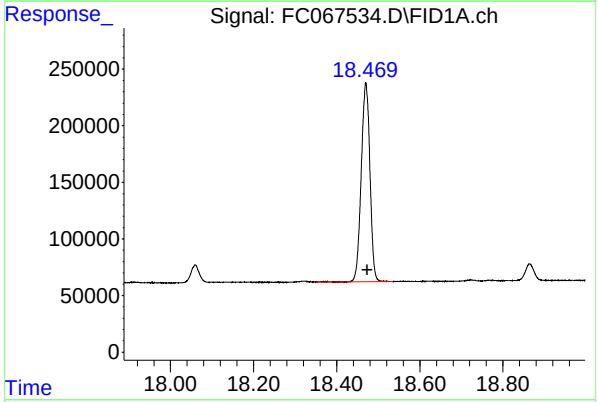
R.T.: 16.753 min
Delta R.T.: -0.005 min
Response: 2439421
Conc: 20.74 ug/ml



#17 n-Tricontane (C30)

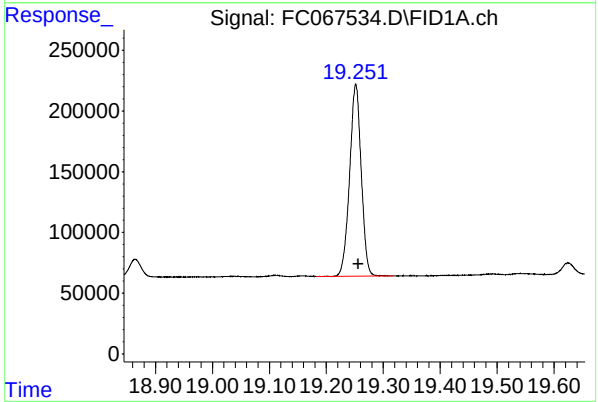
R.T.: 17.638 min
Delta R.T.: -0.004 min
Response: 2563605
Conc: 21.21 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD



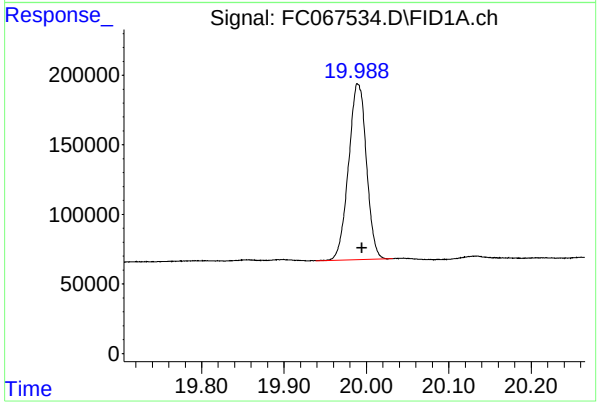
#18 n-Dotriacontane (C32)

R.T.: 18.470 min
Delta R.T.: -0.004 min
Response: 2555141
Conc: 21.60 ug/ml



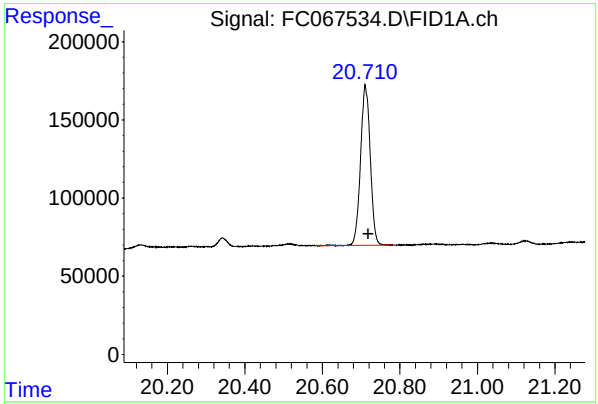
#19 n-Tetratriacontane (C34)

R.T.: 19.252 min
Delta R.T.: -0.004 min
Response: 2239051
Conc: 21.38 ug/ml



#20 n-Hexatriacontane (C36)

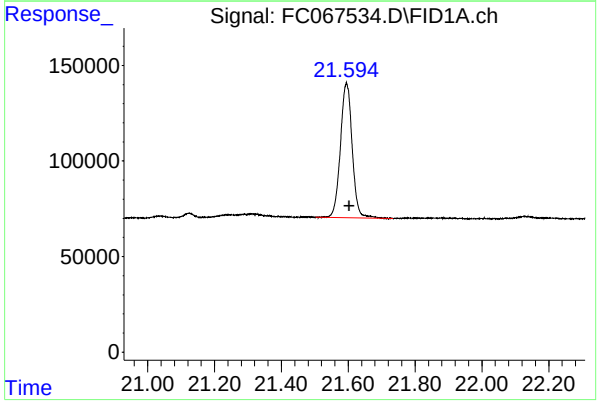
R.T.: 19.990 min
Delta R.T.: -0.004 min
Response: 1905425
Conc: 20.93 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 20.711 min
Delta R.T.: -0.007 min
Response: 1783816
Conc: 20.60 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD



#22 n-Tetracontane (C40)

R.T.: 21.595 min
Delta R.T.: -0.009 min
Response: 1730404
Conc: 20.36 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC102824AL\
Data File : FC067534.D
Signal(s) : FID1A.ch
Acq On : 28 Oct 2024 09:16
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 102324.M
Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.273	3.245	3.332	BB	315771	2689719	90.55%	4.905%
2	4.338	4.280	4.395	BB	294003	2739294	92.22%	4.996%
3	5.915	5.859	6.007	BB	316368	2970304	100.00%	5.417%
4	6.353	6.290	6.419	BB	266243	2740471	92.26%	4.998%
5	6.970	6.922	7.065	BB	277705	2827262	95.18%	5.156%
6	8.145	8.084	8.217	BB	246013	2670635	89.91%	4.871%
7	9.742	9.684	9.815	BB	239073	2701718	90.96%	4.927%
8	11.181	11.144	11.250	BB	233911	2707873	91.16%	4.939%
9	11.493	11.432	11.550	BB	273291	2944944	99.15%	5.371%
10	12.489	12.422	12.550	BB	208881	2568750	86.48%	4.685%
11	12.931	12.870	12.992	BB	176001	2151054	72.42%	3.923%
12	13.100	13.035	13.160	BB	204620	2512784	84.60%	4.583%
13	13.685	13.622	13.754	BB	198174	2492215	83.90%	4.545%
14	14.786	14.727	14.849	BB	182353	2467252	83.06%	4.500%
15	15.805	15.734	15.875	BB	174360	2430324	81.82%	4.432%
16	16.753	16.675	16.832	BB	186414	2439421	82.13%	4.449%
17	17.638	17.569	17.702	BB	183558	2563605	86.31%	4.675%
18	18.470	18.350	18.535	BB	175922	2555141	86.02%	4.660%
19	19.252	19.182	19.317	BB	158377	2239051	75.38%	4.084%
20	19.990	19.939	20.032	BV	125735	1905425	64.15%	3.475%
21	20.711	20.584	20.782	BB	102158	1783816	60.06%	3.253%
22	21.595	21.504	21.734	BB	70780	1730404	58.26%	3.156%
			Sum of corrected areas:			54831460		

Aliphatic EPH 102324.M Tue Oct 29 04:59:01 2024

Evaluate Continuing Calibration Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC102824AL\
Data File : FC067534.D
Signal(s) : FID1A.ch
Acq On : 28 Oct 2024 09:16
Operator : YP/AJ
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
FID_C
LabSampleId :
20 PPM ALIPHATIC HC STD

Integration File: autoint1.e
Quant Time: Oct 29 00:04:23 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 18:12:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	T	n-Nonane (C9)	134.721	134.486 E3	0.2	101	0.00
2	T	n-Decane (C10)	136.246	136.965 E3	-0.5	101	0.00
3	T	A~Naphthalene (C11.7)	148.188	148.515 E3	-0.2	101	0.00
4	T	n-Dodecane (C12)	135.442	137.024 E3	-1.2	102	0.00
5	T	A~2-methylnaphthalene (C12.	141.221	141.363 E3	-0.1	101	0.00
6	T	n-Tetradecane (C14)	131.261	133.532 E3	-1.7	103	0.00
7	T	n-Hexadecane (C16)	132.103	135.086 E3	-2.3	103	0.00
8	T	n-Octadecane (C18)	132.113	135.394 E3	-2.5	104	0.00
9	S	ortho-Terphenyl (SURR)	146.731	147.247 E3	-0.4	102	0.00
10	T	n-Eicosane (C20)	126.177	128.437 E3	-1.8	103	0.00
11	T	n-Heneicosane (C21)	123.415	125.639 E3	-1.8	103	0.00
12	S	1-chlorooctadecane (SURR)	107.988	107.553 E3	0.4	101	0.00
13	T	n-Docosane (C22)	122.449	124.611 E3	-1.8	103	0.00
14	T	n-Tetracosane (C24)	121.210	123.363 E3	-1.8	103	0.00
15	T	n-Hexacosane (C26)	119.056	121.516 E3	-2.1	104	0.00
16	T	n-Octacosane (C28)	117.647	121.971 E3	-3.7	105	0.00
17	T	n-Tricontane (C30)	120.871	128.180 E3	-6.0	108	0.00
18	T	n-Dotriacontane (C32)	118.320	127.757 E3	-8.0	110	0.00
19	T	n-Tetratriacontane (C34)	104.727	111.953 E3	-6.9	108	0.00
20	T	n-Hexatriacontane (C36)	91.027	95.271 E3	-4.7	106	0.00
21	T	n-Octatriacontane (C38)	86.602	89.191 E3	-3.0	104	0.00
22	T	n-Tetracontane (C40)	85.011	86.520 E3	-1.8	103	0.00

Evaluate Continuing Calibration Report - Not Founds

(#) = Out of Range SPCC's out = 0 CCC's out = 0

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

Continuing Calibration Report for SequenceID : FC102824AL

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
File ID :	**FC067541.D**						
Aliphatic C16-C21	7857628.000	60.000	9.843	13.200	130960.467	127235.092	-2.928
Aliphatic C21-C28	9913509.000	80.000	13.201	16.853	123918.863	120090.398	-3.188
Aliphatic C28-C40	13005709.000	120.000	16.854	21.695	108380.908	101093.195	-7.209
Aliphatic EPH	44286148.000	360.000	3.173	21.695	123017.078	118799.912	-3.550
Aliphatic C9-C12	8119479.000	60.000	3.173	6.453	135324.650	135469.641	0.107
Aliphatic C12-C16	5389823.000	40.000	6.454	9.842	134745.575	131681.730	-2.327

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:	28 Oct 2024 13:55
Client Sample ID:		Operator:	YP/AJ
Data file:	FC067541.D	Misc:	
Instrument:	FID_C	ALS Vial:	2
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aliphatic C9-C12	3.173	6.453	8119479.000	60.000	ug/ml
Aliphatic C12-C16	6.454	9.842	5389823.000	40.000	ug/ml
Aliphatic C16-C21	9.843	13.200	7857628.000	60.000	ug/ml
Aliphatic C21-C28	13.201	16.853	9913509.000	80.000	ug/ml
Aliphatic C28-C40	16.854	21.695	13005709.000	120.000	ug/ml
Aliphatic EPH	3.173	21.695	44286148.000	360.000	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC102824AL\
Data File : FC067541.D
Signal(s) : FID1A.ch
Acq On : 28 Oct 2024 13:55
Operator : YP/AJ
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 10/29/2024
Supervised By :Ankita Jodhani 10/29/2024

Integration File: sample.E
Quant Time: Oct 29 00:05:29 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 18:12:58 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)	11.494	2958818	20.165 ug/ml
Spiked Amount	50.000		Recovery =	40.33%
12) S	1-chlorooctadecane (S...	12.932	2195676	20.333 ug/ml
Spiked Amount	50.000		Recovery =	40.67%
	Target Compounds			
1) T	n-Nonane (C9)	3.274	2662070	19.760 ug/ml
2) T	n-Decane (C10)	4.339	2724543	19.997 ug/ml
3) T	A~Naphthalene (C11.7)	5.916	2956908	19.954 ug/ml
4) T	n-Dodecane (C12)	6.354	2732866	20.177 ug/ml
5) T	A~2-methylnaphthalene...	6.971	2834684	20.073 ug/ml
6) T	n-Tetradecane (C14)	8.146	2672494	20.360 ug/ml
7) T	n-Hexadecane (C16)	9.744	2717329	20.570 ug/ml
8) T	n-Octadecane (C18)	11.183	2728945	20.656 ug/ml
10) T	n-Eicosane (C20)	12.489	2591647	20.540 ug/ml
11) T	n-Heneicosane (C21)	13.101	2537036	20.557 ug/ml
13) T	n-Docosane (C22)	13.685	2512507	20.519 ug/ml
14) T	n-Tetracosane (C24)	14.786	2490102	20.544 ug/ml
15) T	n-Hexacosane (C26)	15.806	2457754	20.644 ug/ml
16) T	n-Octacosane (C28)	16.754	2453146	20.852 ug/ml
17) T	n-Tricontane (C30)	17.640	2588383	21.414 ug/ml
18) T	n-Dotriacontane (C32)	18.471	2582697	21.828 ug/ml
19) T	n-Tetratriacontane (C34)	19.252	2293073	21.896 ug/ml
20) T	n-Hexatriacontane (C36)	19.990	1966505	21.604 ug/ml
21) T	n-Octatriacontane (C38)	20.711	1823109	21.051 ug/mlm
22) T	n-Tetracontane (C40)	21.595	1751942	20.608 ug/ml

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

Quantitation Report (QT Reviewed)

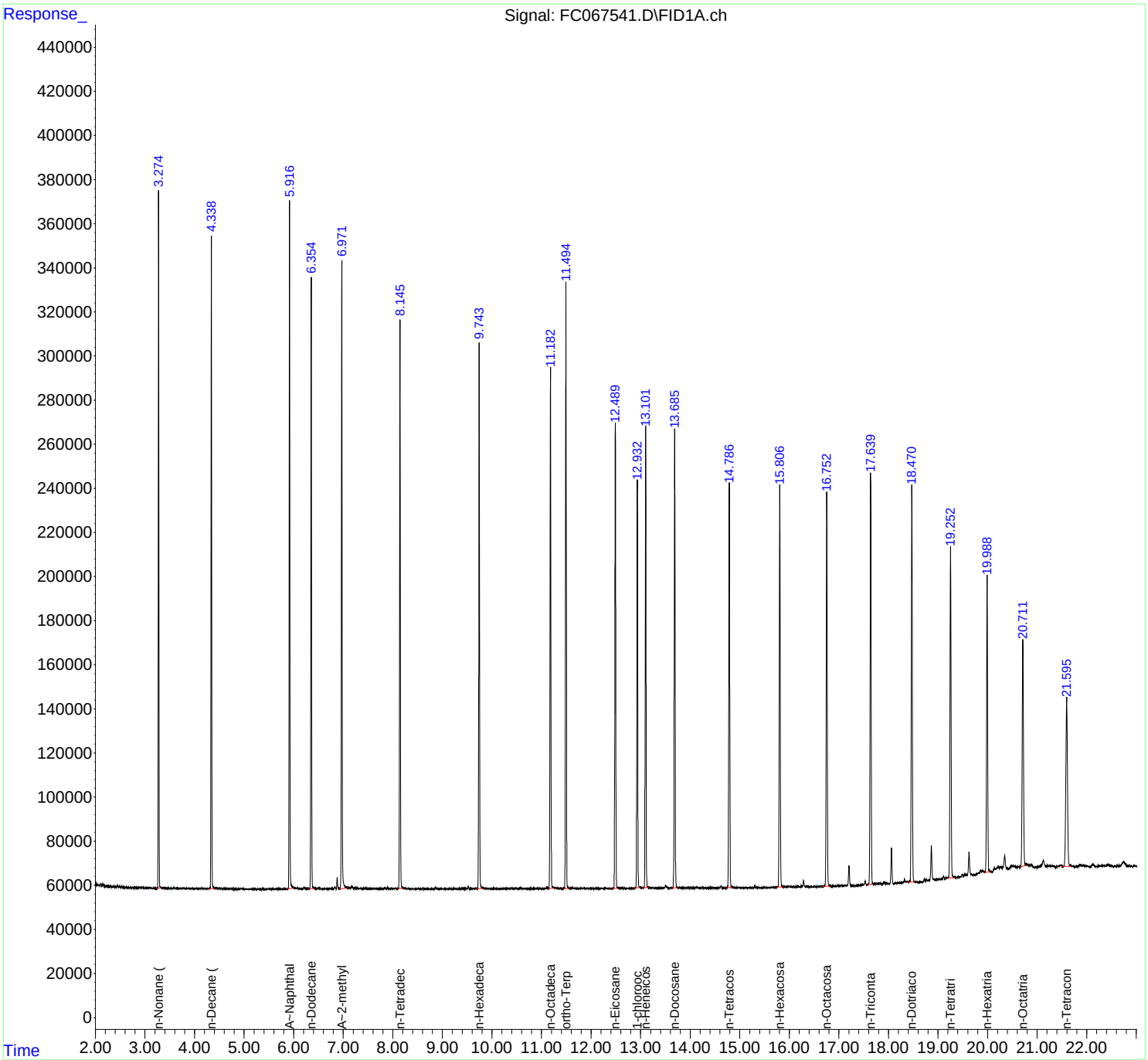
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC102824AL\
Data File : FC067541.D
Signal(s) : FID1A.ch
Acq On : 28 Oct 2024 13:55
Operator : YP/AJ
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 2 Sample Multiplier: 1

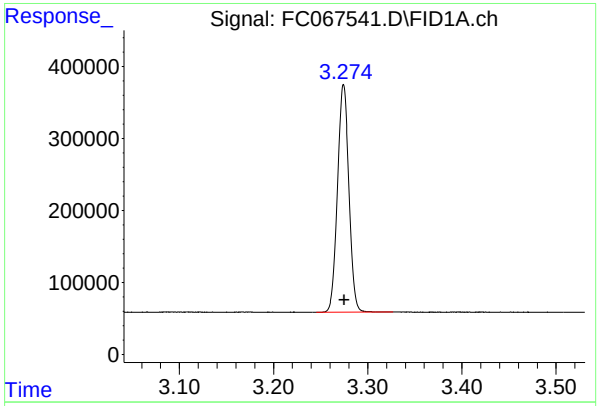
Integration File: sample.E
Quant Time: Oct 29 00:05:29 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 18:12:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 10/29/2024
Supervised By :Ankita Jodhani 10/29/2024





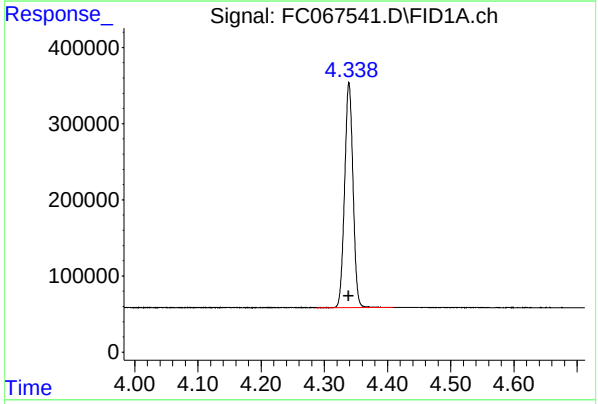
#1 n-Nonane (C9)

R.T.: 3.274 min
Delta R.T.: 0.000 min
Response: 2662070
Conc: 19.76 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD

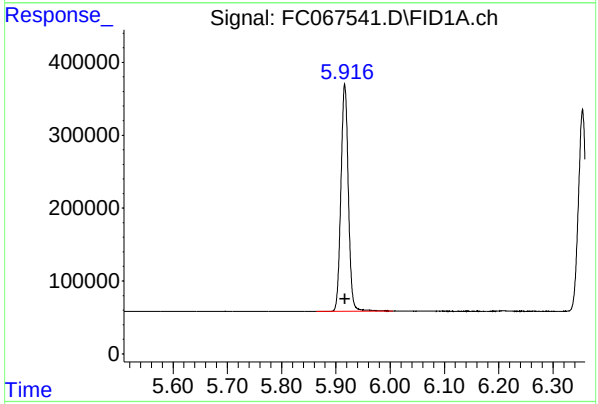
Manual Integrations APPROVED

Reviewed By :Yogesh Patel 10/29/2024
Supervised By :Ankita Jodhani 10/29/2024



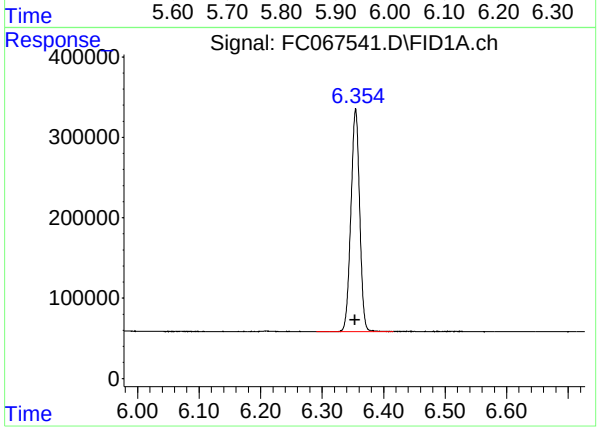
#2 n-Decane (C10)

R.T.: 4.339 min
Delta R.T.: 0.000 min
Response: 2724543
Conc: 20.00 ug/ml



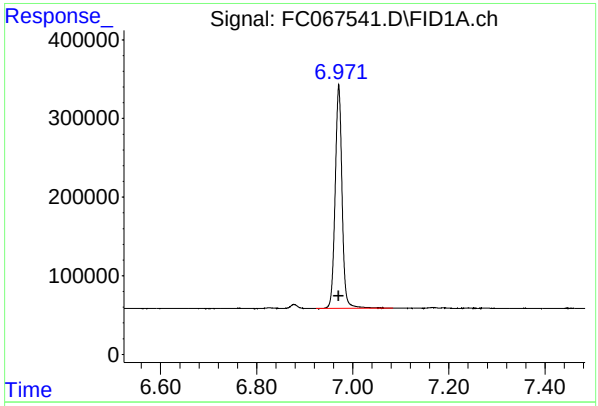
#3 A~Naphthalene (C11.7)

R.T.: 5.916 min
Delta R.T.: 0.000 min
Response: 2956908
Conc: 19.95 ug/ml



#4 n-Dodecane (C12)

R.T.: 6.354 min
Delta R.T.: 0.000 min
Response: 2732866
Conc: 20.18 ug/ml



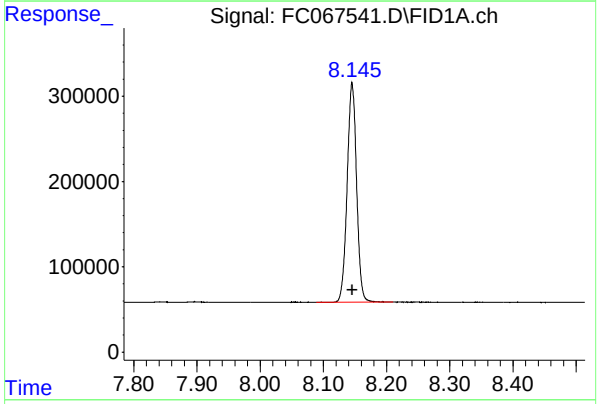
#5 A~2-methylnaphthalene (C12.89)

R.T.: 6.971 min
Delta R.T.: 0.000 min
Response: 2834684
Conc: 20.07 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD

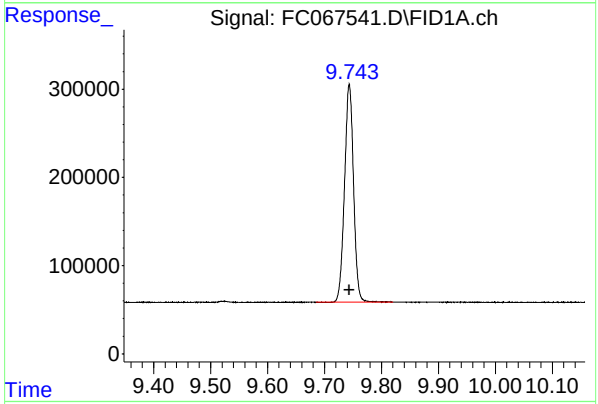
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/29/2024
Supervised By :Ankita Jodhani 10/29/2024



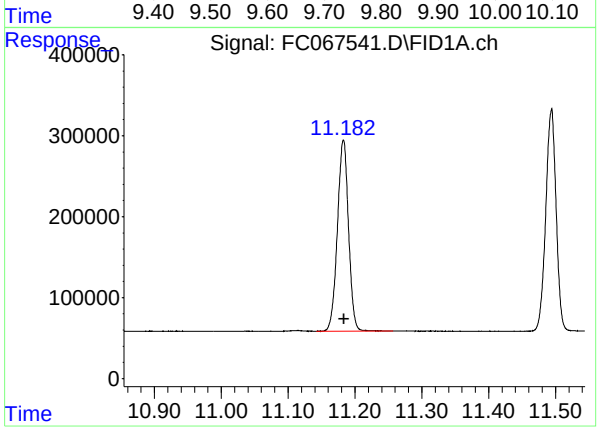
#6 n-Tetradecane (C14)

R.T.: 8.146 min
Delta R.T.: 0.000 min
Response: 2672494
Conc: 20.36 ug/ml



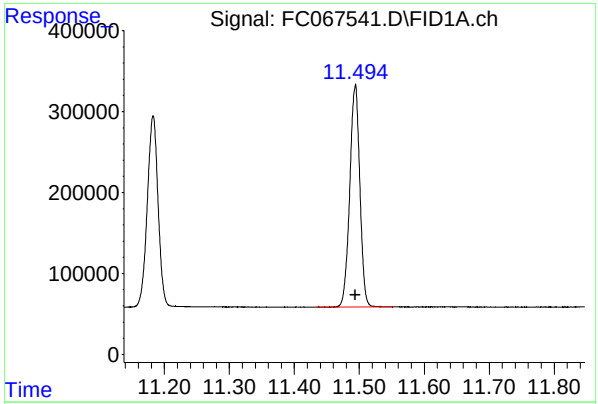
#7 n-Hexadecane (C16)

R.T.: 9.744 min
Delta R.T.: 0.000 min
Response: 2717329
Conc: 20.57 ug/ml



#8 n-Octadecane (C18)

R.T.: 11.183 min
Delta R.T.: -0.001 min
Response: 2728945
Conc: 20.66 ug/ml



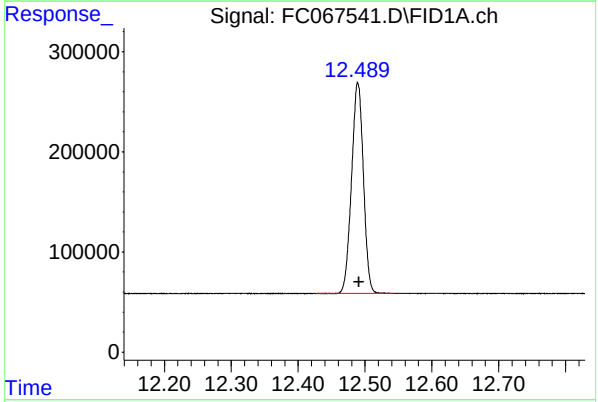
#9 ortho-Terphenyl (SURR)

R.T.: 11.494 min
Delta R.T.: 0.000 min
Response: 2958818
Conc: 20.16 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD

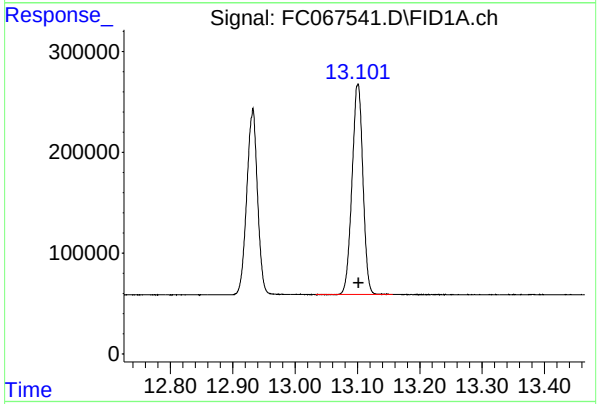
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/29/2024
Supervised By :Ankita Jodhani 10/29/2024



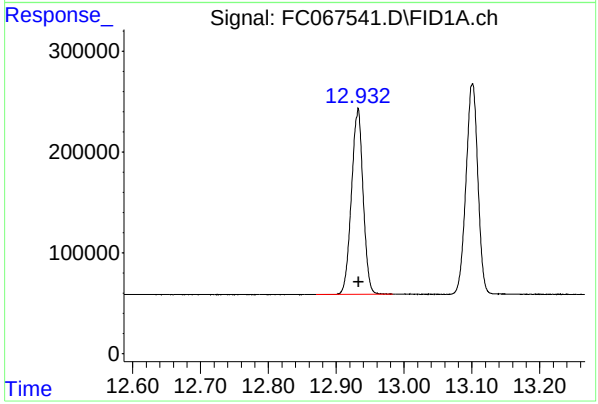
#10 n-Eicosane (C20)

R.T.: 12.489 min
Delta R.T.: -0.001 min
Response: 2591647
Conc: 20.54 ug/ml



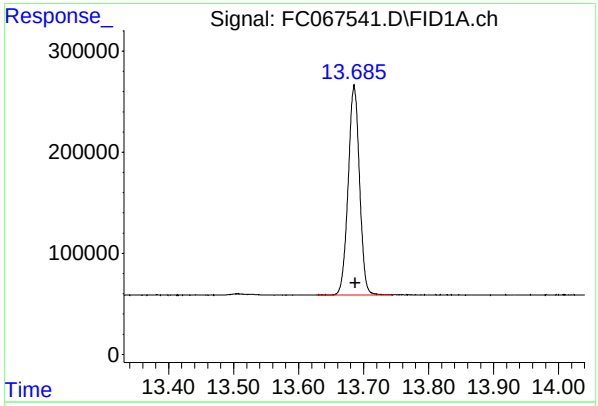
#11 n-Heneicosane (C21)

R.T.: 13.101 min
Delta R.T.: -0.001 min
Response: 2537036
Conc: 20.56 ug/ml



#12 1-chlorooctadecane (SURR)

R.T.: 12.932 min
Delta R.T.: -0.001 min
Response: 2195676
Conc: 20.33 ug/ml



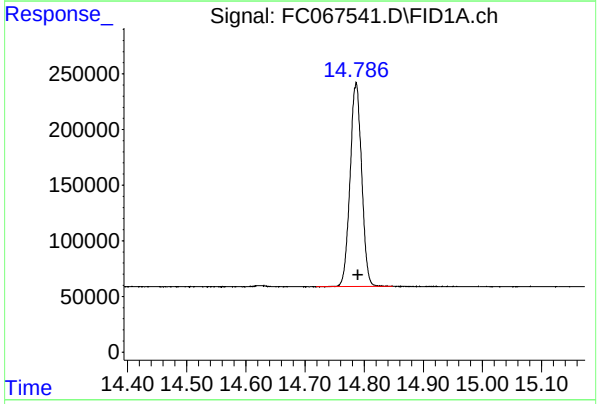
#13 n-Docosane (C22)

R.T.: 13.685 min
Delta R.T.: -0.002 min
Response: 2512507
Conc: 20.52 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD

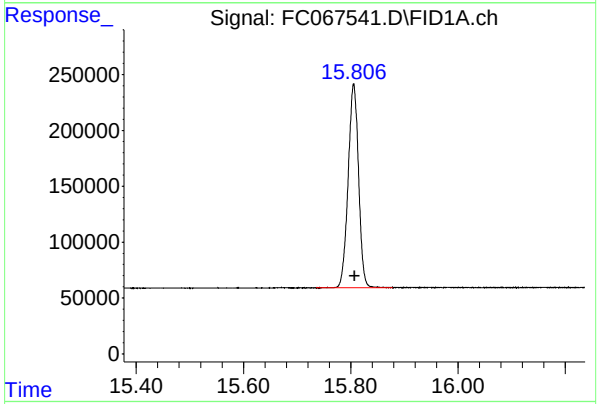
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/29/2024
Supervised By :Ankita Jodhani 10/29/2024



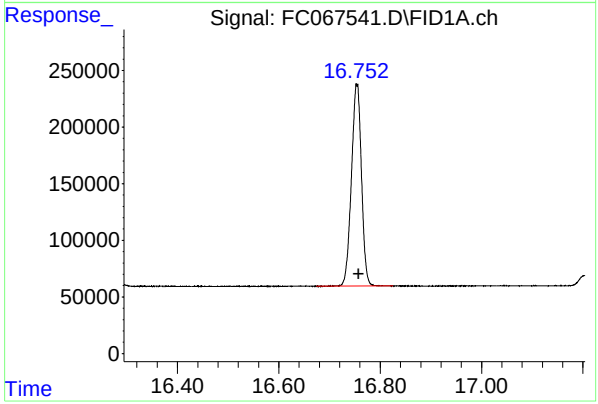
#14 n-Tetracosane (C24)

R.T.: 14.786 min
Delta R.T.: -0.003 min
Response: 2490102
Conc: 20.54 ug/ml



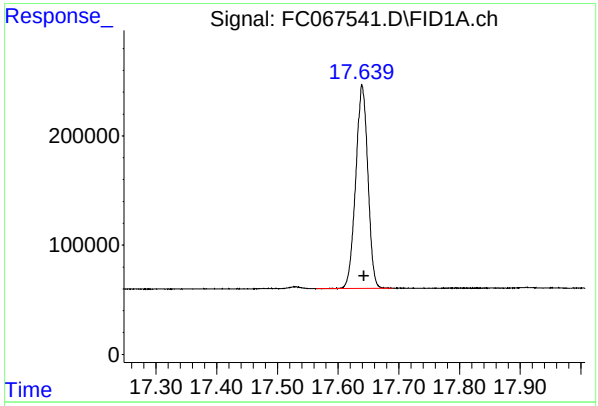
#15 n-Hexacosane (C26)

R.T.: 15.806 min
Delta R.T.: -0.002 min
Response: 2457754
Conc: 20.64 ug/ml



#16 n-Octacosane (C28)

R.T.: 16.754 min
Delta R.T.: -0.004 min
Response: 2453146
Conc: 20.85 ug/ml



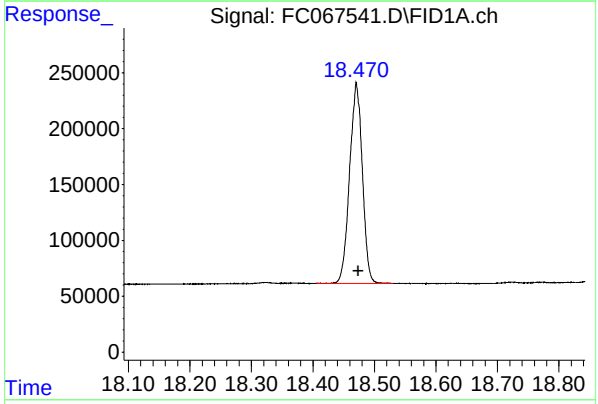
#17 n-Tricontane (C30)

R.T.: 17.640 min
Delta R.T.: -0.003 min
Response: 2588383
Conc: 21.41 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD

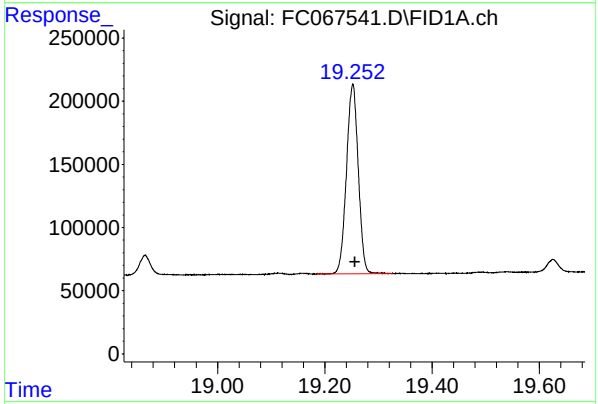
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/29/2024
Supervised By :Ankita Jodhani 10/29/2024



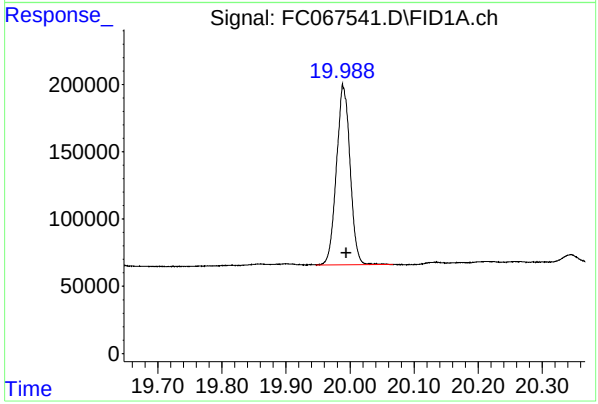
#18 n-Dotriacontane (C32)

R.T.: 18.471 min
Delta R.T.: -0.003 min
Response: 2582697
Conc: 21.83 ug/ml



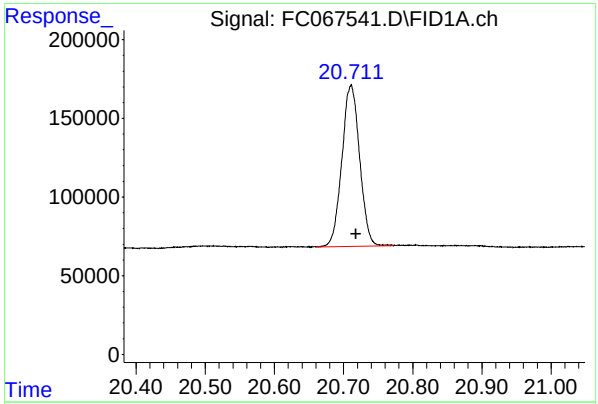
#19 n-Tetratriacontane (C34)

R.T.: 19.252 min
Delta R.T.: -0.004 min
Response: 2293073
Conc: 21.90 ug/ml



#20 n-Hexatriacontane (C36)

R.T.: 19.990 min
Delta R.T.: -0.005 min
Response: 1966505
Conc: 21.60 ug/ml



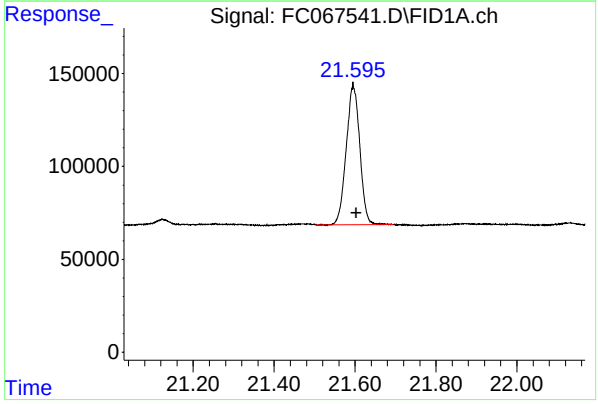
#21 n-Octatriacontane (C38)

R.T.: 20.711 min
Delta R.T.: -0.007 min
Response: 1823109
Conc: 21.05 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/29/2024
Supervised By :Ankita Jodhani 10/29/2024



#22 n-Tetracontane (C40)

R.T.: 21.595 min
Delta R.T.: -0.008 min
Response: 1751942
Conc: 20.61 ug/ml

Instrument :
FID_C
LabSampleId :
20 PPM ALIPHATIC HC STD

rteres

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 10/29/2024
Supervised By :Ankita Jodhani 10/29/2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC10282
Data File : FC067541.D
Signal(s) : FID1A.ch
Acq On : 28 Oct 2024 13:55
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 102324.M
Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.274	3.245	3.327	BB	317301	2662070	89.97%	4.818%
2	4.339	4.287	4.409	BB	295084	2724543	92.08%	4.931%
3	5.916	5.864	6.005	BB	310479	2956908	99.94%	5.352%
4	6.354	6.290	6.415	BB	277477	2732866	92.36%	4.946%
5	6.971	6.924	7.084	BB	282839	2834684	95.80%	5.131%
6	8.146	8.089	8.210	BB	257016	2672494	90.32%	4.837%
7	9.744	9.685	9.820	BB	247031	2717329	91.84%	4.918%
8	11.183	11.142	11.257	BB	236537	2728945	92.23%	4.939%
9	11.494	11.434	11.552	BB	272902	2958818	100.00%	5.355%
10	12.489	12.427	12.542	BB	209412	2591647	87.59%	4.691%
11	12.932	12.870	12.984	BB	182765	2195676	74.21%	3.974%
12	13.101	13.034	13.157	BB	208528	2537036	85.74%	4.592%
13	13.685	13.627	13.745	BB	206951	2512507	84.92%	4.548%
14	14.786	14.719	14.849	BB	183901	2490102	84.16%	4.507%
15	15.806	15.735	15.879	BB	182419	2457754	83.07%	4.448%
16	16.754	16.674	16.825	BB	177911	2453146	82.91%	4.440%
17	17.640	17.564	17.690	BB	184887	2588383	87.48%	4.685%
18	18.471	18.405	18.530	BB	179236	2582697	87.29%	4.675%
19	19.252	19.184	19.327	BB	150380	2293073	77.50%	4.150%
20	19.990	19.947	20.067	BB	131157	1966505	66.46%	3.559%
21	20.711	20.405	20.785	BB	101983	1840743	62.21%	3.332%
22	21.595	21.504	21.694	BB	76437	1751942	59.21%	3.171%
			Sum of corrected areas:			55249867		

Aliphatic EPH 102324.M Tue Oct 29 04:59:51 2024

Evaluate Continuing Calibration Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC102824AL\
Data File : FC067541.D
Signal(s) : FID1A.ch
Acq On : 28 Oct 2024 13:55
Operator : YP/AJ
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
FID_C
LabSampleId :
20 PPM ALIPHATIC HC STD

Integration File: autoint1.e
Quant Time: Oct 29 00:05:29 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 18:12:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF		%Dev	Area%	Dev(Min)
1	T	n-Nonane (C9)	134.721	133.103	E3	1.2	100	0.00
2	T	n-Decane (C10)	136.246	136.227	E3	0.0	101	0.00
3	T	A~Naphthalene (C11.7)	148.188	147.845	E3	0.2	101	0.00
4	T	n-Dodecane (C12)	135.442	136.643	E3	-0.9	102	0.00
5	T	A~2-methylnaphthalene (C12.	141.221	141.734	E3	-0.4	101	0.00
6	T	n-Tetradecane (C14)	131.261	133.625	E3	-1.8	103	0.00
7	T	n-Hexadecane (C16)	132.103	135.866	E3	-2.8	104	0.00
8	T	n-Octadecane (C18)	132.113	136.447	E3	-3.3	105	0.00
9	S	ortho-Terphenyl (SURR)	146.731	147.941	E3	-0.8	103	0.00
10	T	n-Eicosane (C20)	126.177	129.582	E3	-2.7	104	0.00
11	T	n-Heneicosane (C21)	123.415	126.852	E3	-2.8	104	0.00
12	S	1-chlorooctadecane (SURR)	107.988	109.784	E3	-1.7	103	0.00
13	T	n-Docosane (C22)	122.449	125.625	E3	-2.6	104	0.00
14	T	n-Tetracosane (C24)	121.210	124.505	E3	-2.7	104	0.00
15	T	n-Hexacosane (C26)	119.056	122.888	E3	-3.2	105	0.00
16	T	n-Octacosane (C28)	117.647	122.657	E3	-4.3	106	0.00
17	T	n-Tricontane (C30)	120.871	129.419	E3	-7.1	109	0.00
18	T	n-Dotriacontane (C32)	118.320	129.135	E3	-9.1	111	0.00
19	T	n-Tetratriacontane (C34)	104.727	114.654	E3	-9.5	111	0.00
20	T	n-Hexatriacontane (C36)	91.027	98.325	E3	-8.0	110	0.00
21	T	n-Octatriacontane (C38)	86.602	91.155	E3	-5.3	106	0.00
22	T	n-Tetracontane (C40)	85.011	87.597	E3	-3.0	104	0.00

Evaluate Continuing Calibration Report - Not Founds

(#) = Out of Range SPCC's out = 0 CCC's out = 0

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

Continuing Calibration Report for SequenceID : FC102824AL

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
File ID :	**FC067552.D**						
Aliphatic C16-C21	7778385.000	60.000	9.843	13.200	129639.750	127235.092	-1.890
Aliphatic C21-C28	9854845.000	80.000	13.201	16.853	123185.563	120090.398	-2.577
Aliphatic C28-C40	13169327.000	120.000	16.854	21.695	109744.392	101093.195	-8.558
Aliphatic EPH	44364168.000	360.000	3.173	21.695	123233.800	118799.912	-3.732
Aliphatic C9-C12	8190095.000	60.000	3.173	6.453	136501.583	135469.641	-0.762
Aliphatic C12-C16	5371516.000	40.000	6.454	9.842	134287.900	131681.730	-1.979

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:	29 Oct 2024 08:54
Client Sample ID:		Operator:	YP/AJ
Data file:	FC067552.D	Misc:	
Instrument:	FID_C	ALS Vial:	2
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aliphatic C9-C12	3.173	6.453	8190095.000	60.000	ug/ml
Aliphatic C12-C16	6.454	9.842	5371516.000	40.000	ug/ml
Aliphatic C16-C21	9.843	13.200	7778385.000	60.000	ug/ml
Aliphatic C21-C28	13.201	16.853	9854845.000	80.000	ug/ml
Aliphatic C28-C40	16.854	21.695	13169327.000	120.000	ug/ml
Aliphatic EPH	3.173	21.695	44364168.000	360.000	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC102824AL\
Data File : FC067552.D
Signal(s) : FID1A.ch
Acq On : 29 Oct 2024 08:54
Operator : YP/AJ
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD

Integration File: sample.E
Quant Time: Oct 30 03:45:34 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 18:12:58 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)	11.492	2947472	20.088 ug/ml
Spiked Amount	50.000		Recovery =	40.18%
12) S	1-chlorooctadecane (S...	12.930	2171406	20.108 ug/ml
Spiked Amount	50.000		Recovery =	40.22%
	Target Compounds			
1) T	n-Nonane (C9)	3.274	2692591	19.986 ug/ml
2) T	n-Decane (C10)	4.339	2749171	20.178 ug/ml
3) T	A~Naphthalene (C11.7)	5.915	2979389	20.105 ug/ml
4) T	n-Dodecane (C12)	6.353	2748333	20.292 ug/ml
5) T	A~2-methylnaphthalene...	6.970	2835238	20.077 ug/ml
6) T	n-Tetradecane (C14)	8.145	2668899	20.333 ug/ml
7) T	n-Hexadecane (C16)	9.742	2702617	20.458 ug/ml
8) T	n-Octadecane (C18)	11.181	2703166	20.461 ug/ml
10) T	n-Eicosane (C20)	12.488	2567774	20.350 ug/ml
11) T	n-Heneicosane (C21)	13.099	2507445	20.317 ug/ml
13) T	n-Docosane (C22)	13.683	2486675	20.308 ug/ml
14) T	n-Tetracosane (C24)	14.785	2469414	20.373 ug/ml
15) T	n-Hexacosane (C26)	15.804	2438933	20.486 ug/ml
16) T	n-Octacosane (C28)	16.752	2459823	20.908 ug/ml
17) T	n-Tricontane (C30)	17.638	2614383	21.629 ug/ml
18) T	n-Dotriacontane (C32)	18.469	2626446	22.198 ug/ml
19) T	n-Tetratriacontane (C34)	19.250	2337290	22.318 ug/ml
20) T	n-Hexatriacontane (C36)	19.989	1992304	21.887 ug/ml
21) T	n-Octatriacontane (C38)	20.709	1835427	21.194 ug/ml
22) T	n-Tetracontane (C40)	21.592	1763477	20.744 ug/ml

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

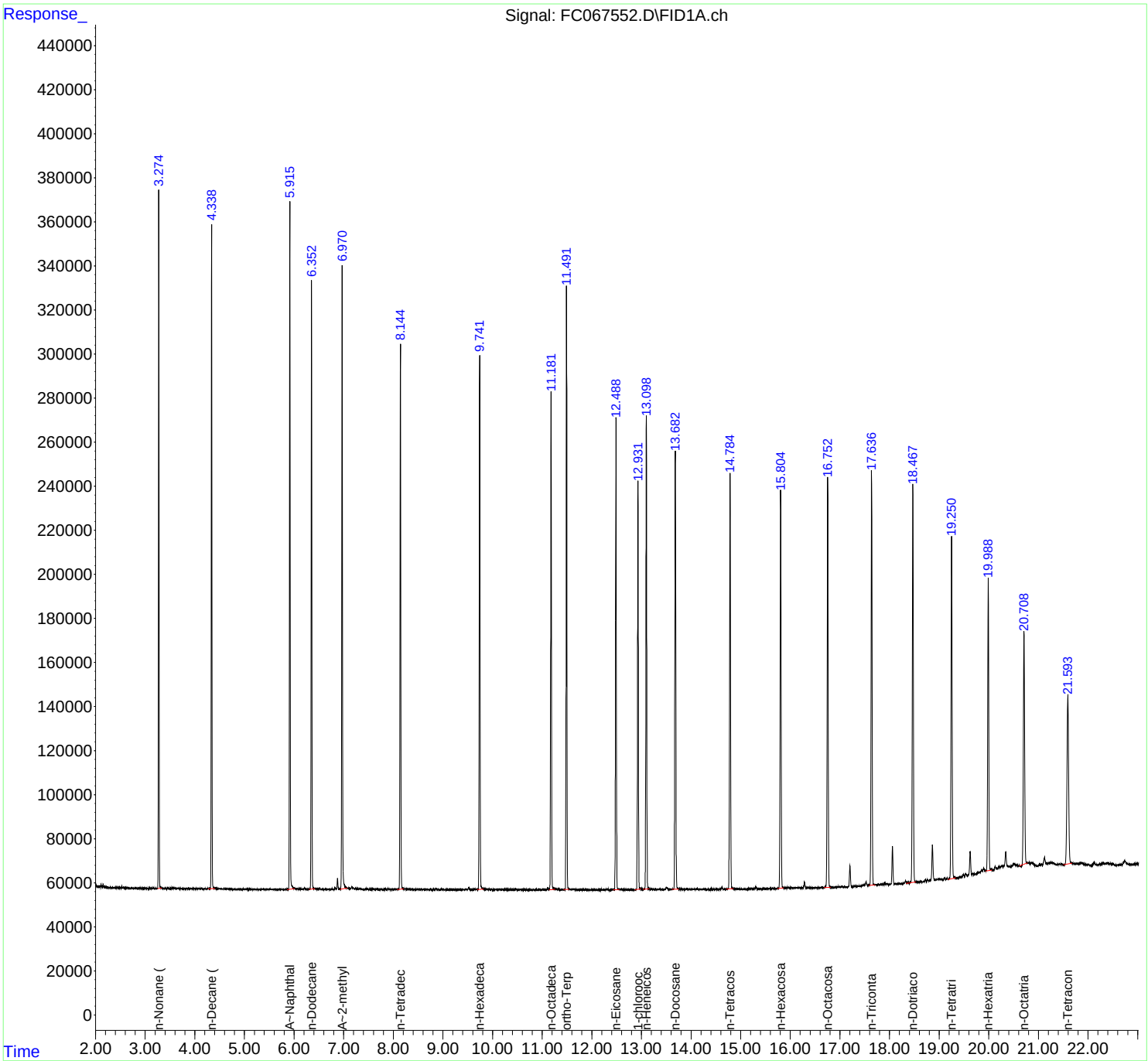
Quantitation Report (QT Reviewed)

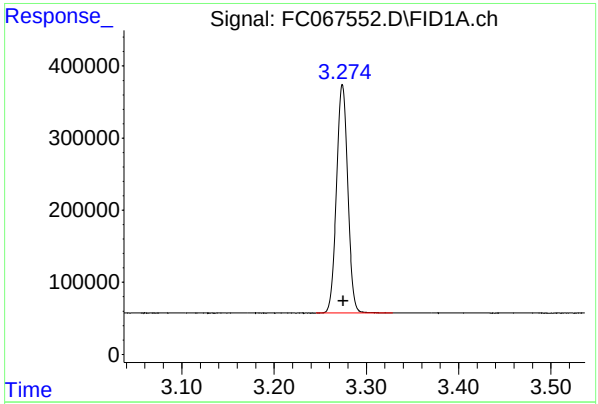
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC102824AL\
Data File : FC067552.D
Signal(s) : FID1A.ch
Acq On : 29 Oct 2024 08:54
Operator : YP/AJ
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD

Integration File: sample.E
Quant Time: Oct 30 03:45:34 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 18:12:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

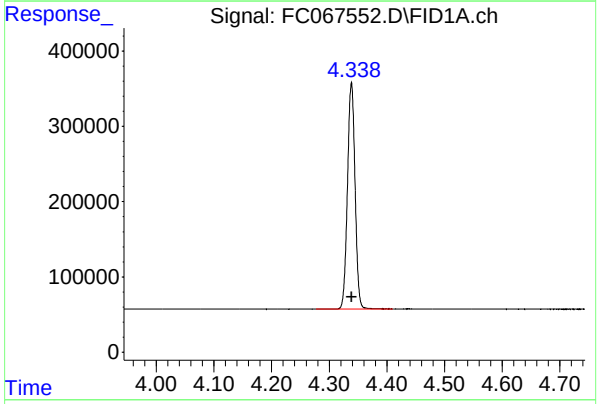




#1 n-Nonane (C9)

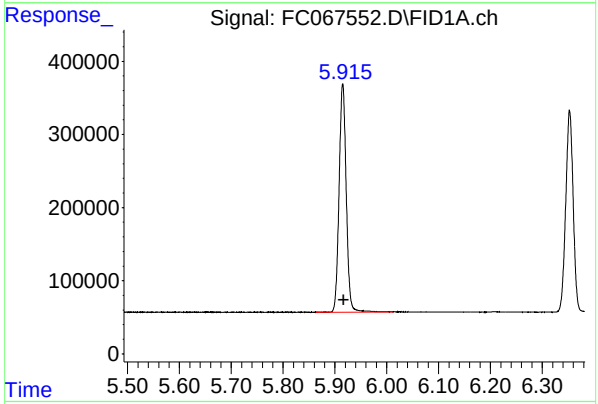
R.T.: 3.274 min
Delta R.T.: 0.000 min
Response: 2692591
Conc: 19.99 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD



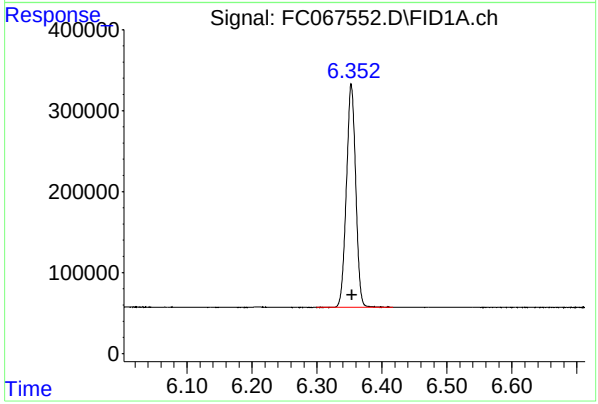
#2 n-Decane (C10)

R.T.: 4.339 min
Delta R.T.: 0.000 min
Response: 2749171
Conc: 20.18 ug/ml



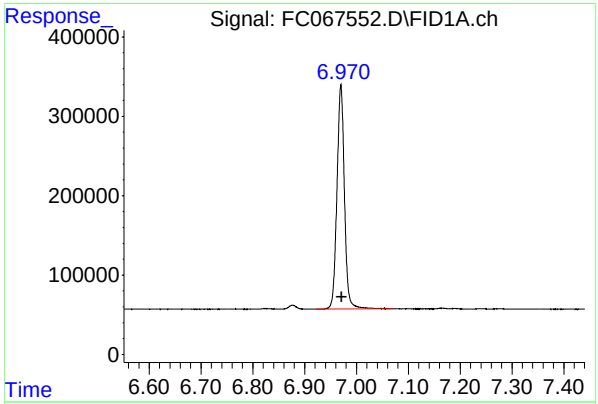
#3 A~Naphthalene (C11.7)

R.T.: 5.915 min
Delta R.T.: -0.002 min
Response: 2979389
Conc: 20.11 ug/ml



#4 n-Dodecane (C12)

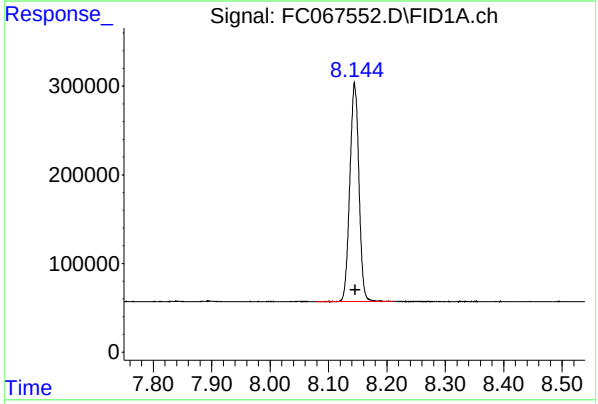
R.T.: 6.353 min
Delta R.T.: 0.000 min
Response: 2748333
Conc: 20.29 ug/ml



#5 A~2-methylnaphthalene (C12.89)

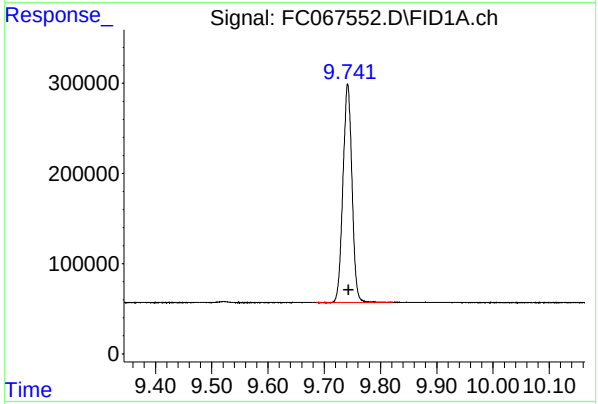
R.T.: 6.970 min
Delta R.T.: -0.001 min
Response: 2835238
Conc: 20.08 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD



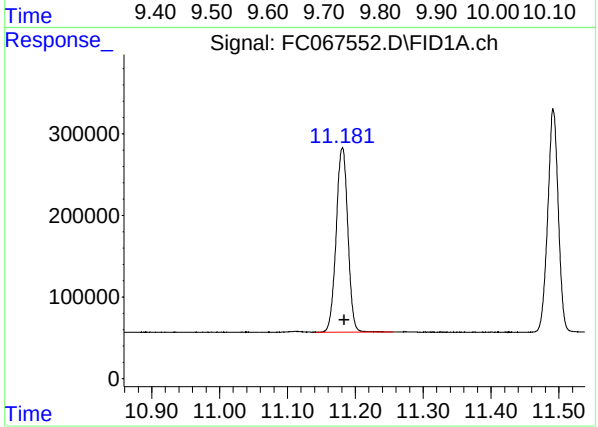
#6 n-Tetradecane (C14)

R.T.: 8.145 min
Delta R.T.: -0.001 min
Response: 2668899
Conc: 20.33 ug/ml



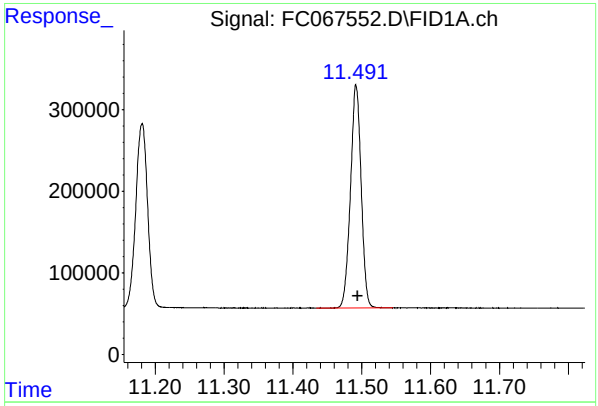
#7 n-Hexadecane (C16)

R.T.: 9.742 min
Delta R.T.: -0.002 min
Response: 2702617
Conc: 20.46 ug/ml



#8 n-Octadecane (C18)

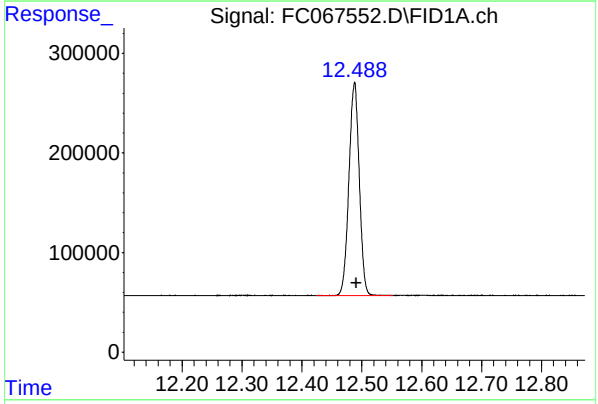
R.T.: 11.181 min
Delta R.T.: -0.003 min
Response: 2703166
Conc: 20.46 ug/ml



#9 ortho-Terphenyl (SURR)

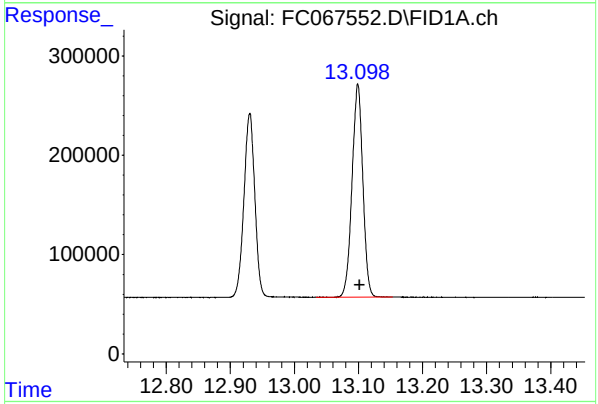
R.T.: 11.492 min
Delta R.T.: -0.002 min
Response: 2947472
Conc: 20.09 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD



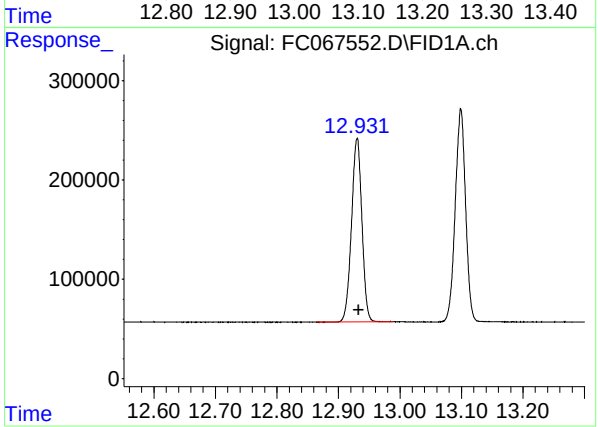
#10 n-Eicosane (C20)

R.T.: 12.488 min
Delta R.T.: -0.003 min
Response: 2567774
Conc: 20.35 ug/ml



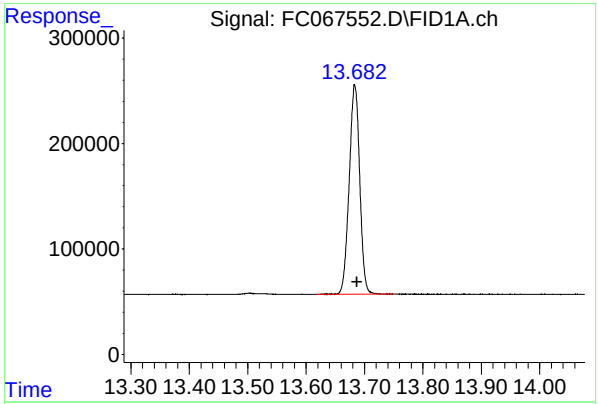
#11 n-Heneicosane (C21)

R.T.: 13.099 min
Delta R.T.: -0.003 min
Response: 2507445
Conc: 20.32 ug/ml



#12 1-chlorooctadecane (SURR)

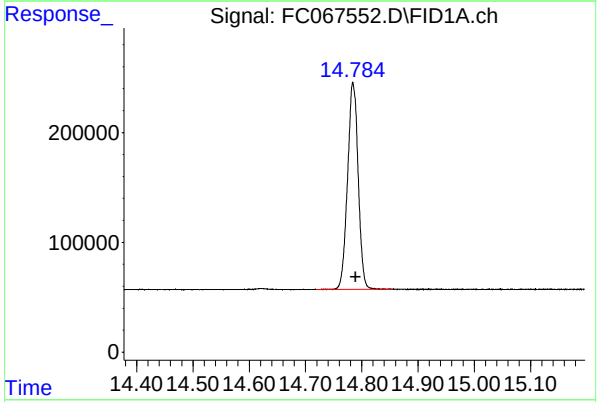
R.T.: 12.930 min
Delta R.T.: -0.003 min
Response: 2171406
Conc: 20.11 ug/ml



#13 n-Docosane (C22)

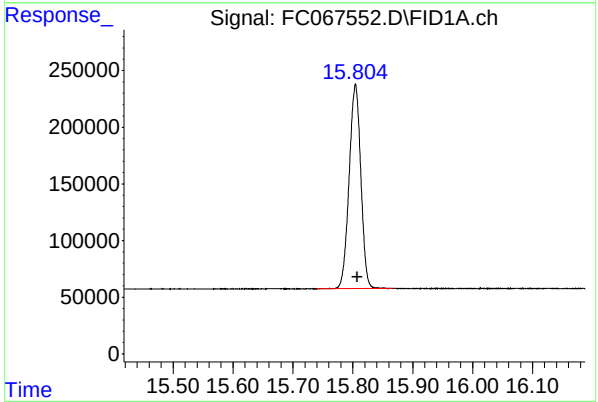
R.T.: 13.683 min
Delta R.T.: -0.004 min
Response: 2486675
Conc: 20.31 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD



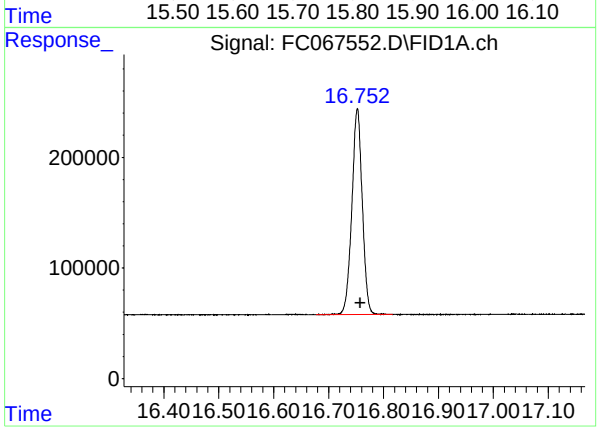
#14 n-Tetracosane (C24)

R.T.: 14.785 min
Delta R.T.: -0.005 min
Response: 2469414
Conc: 20.37 ug/ml



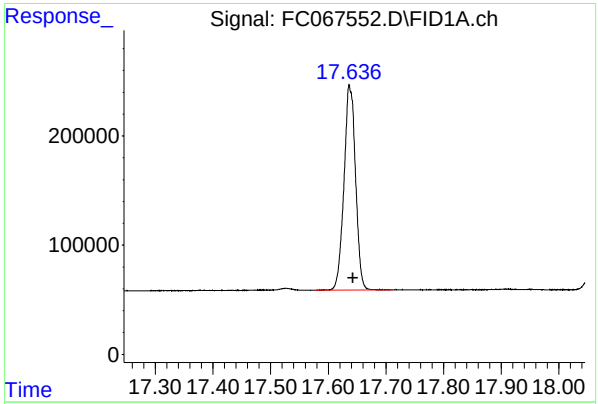
#15 n-Hexacosane (C26)

R.T.: 15.804 min
Delta R.T.: -0.003 min
Response: 2438933
Conc: 20.49 ug/ml



#16 n-Octacosane (C28)

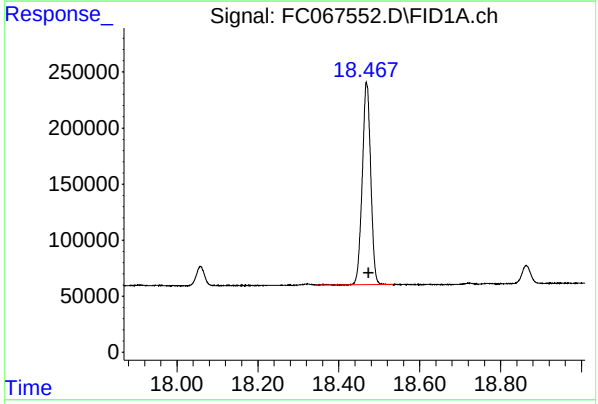
R.T.: 16.752 min
Delta R.T.: -0.005 min
Response: 2459823
Conc: 20.91 ug/ml



#17 n-Tricontane (C30)

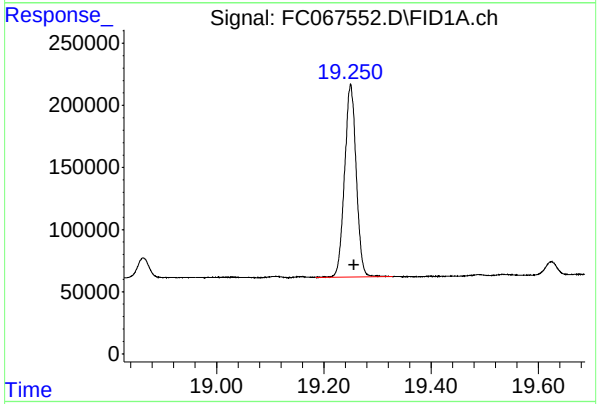
R.T.: 17.638 min
Delta R.T.: -0.005 min
Response: 2614383
Conc: 21.63 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD



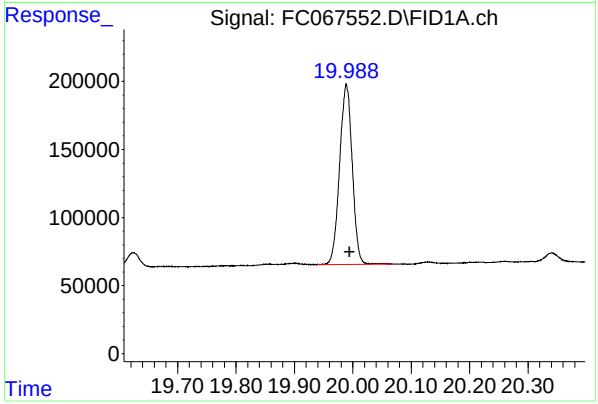
#18 n-Dotriacontane (C32)

R.T.: 18.469 min
Delta R.T.: -0.005 min
Response: 2626446
Conc: 22.20 ug/ml



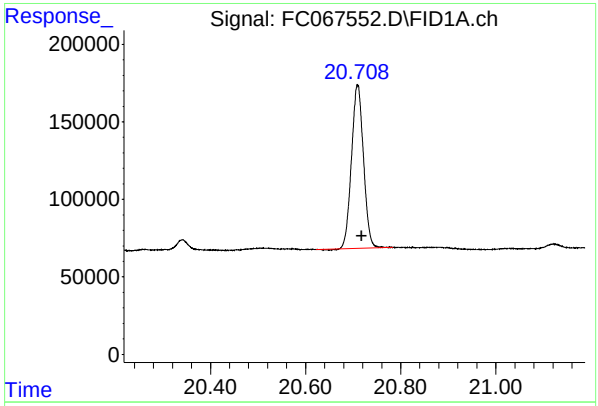
#19 n-Tetratriacontane (C34)

R.T.: 19.250 min
Delta R.T.: -0.006 min
Response: 2337290
Conc: 22.32 ug/ml



#20 n-Hexatriacontane (C36)

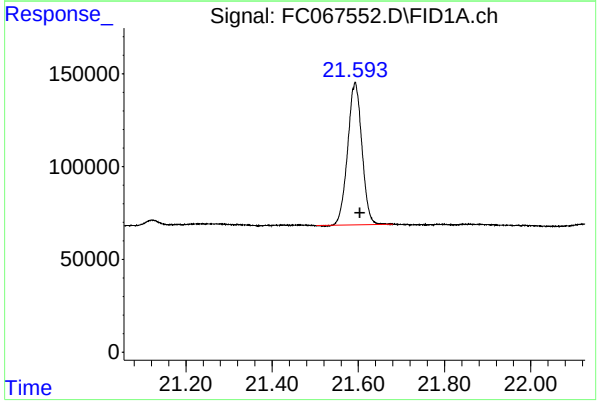
R.T.: 19.989 min
Delta R.T.: -0.005 min
Response: 1992304
Conc: 21.89 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 20.709 min
Delta R.T.: -0.009 min
Response: 1835427
Conc: 21.19 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD



#22 n-Tetracontane (C40)

R.T.: 21.592 min
Delta R.T.: -0.011 min
Response: 1763477
Conc: 20.74 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC102824AL\
Data File : FC067552.D
Signal(s) : FID1A.ch
Acq On : 29 Oct 2024 08:54
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 102324.M
Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.274	3.245	3.329	BB	317267	2692591	90.37%	4.869%
2	4.339	4.277	4.410	BB	301144	2749171	92.27%	4.972%
3	5.915	5.864	6.012	BB	312339	2979389	100.00%	5.388%
4	6.353	6.299	6.417	BB	273843	2748333	92.24%	4.970%
5	6.970	6.922	7.070	BB	282935	2835238	95.16%	5.127%
6	8.145	8.079	8.210	BB	242910	2668899	89.58%	4.826%
7	9.742	9.685	9.822	BB	242111	2702617	90.71%	4.887%
8	11.181	11.142	11.255	BB	225649	2703166	90.73%	4.888%
9	11.492	11.434	11.545	BB	272128	2947472	98.93%	5.330%
10	12.488	12.424	12.552	BB	212777	2567774	86.18%	4.644%
11	12.930	12.864	12.989	BB	185240	2171406	72.88%	3.927%
12	13.099	13.034	13.154	BB	215195	2507445	84.16%	4.534%
13	13.683	13.617	13.749	BB	197602	2486675	83.46%	4.497%
14	14.785	14.719	14.855	BB	186485	2469414	82.88%	4.466%
15	15.804	15.739	15.867	BB	180077	2438933	81.86%	4.411%
16	16.752	16.677	16.817	BB	186305	2459823	82.56%	4.448%
17	17.638	17.579	17.712	BB	185498	2614383	87.75%	4.728%
18	18.469	18.344	18.534	VB	179659	2626446	88.15%	4.750%
19	19.250	19.185	19.329	BB	155559	2337290	78.45%	4.227%
20	19.989	19.937	20.069	BB	132484	1992304	66.87%	3.603%
21	20.709	20.622	20.784	BB	105779	1835427	61.60%	3.319%
22	21.592	21.502	21.680	BB	76978	1763477	59.19%	3.189%
			Sum of corrected areas:			55297671		

Aliphatic EPH 102324.M Wed Oct 30 04:07:42 2024

Evaluate Continuing Calibration Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC102824AL\
Data File : FC067552.D
Signal(s) : FID1A.ch
Acq On : 29 Oct 2024 08:54
Operator : YP/AJ
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
FID_C
LabSampleId :
20 PPM ALIPHATIC HC STD

Integration File: autoint1.e
Quant Time: Oct 30 03:45:34 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 18:12:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	T	n-Nonane (C9)	134.721	134.630 E3	0.1	101	0.00
2	T	n-Decane (C10)	136.246	137.459 E3	-0.9	102	0.00
3	T	A~Naphthalene (C11.7)	148.188	148.969 E3	-0.5	101	0.00
4	T	n-Dodecane (C12)	135.442	137.417 E3	-1.5	102	0.00
5	T	A~2-methylnaphthalene (C12.	141.221	141.762 E3	-0.4	101	0.00
6	T	n-Tetradecane (C14)	131.261	133.445 E3	-1.7	103	0.00
7	T	n-Hexadecane (C16)	132.103	135.131 E3	-2.3	103	0.00
8	T	n-Octadecane (C18)	132.113	135.158 E3	-2.3	104	0.00
9	S	ortho-Terphenyl (SURR)	146.731	147.374 E3	-0.4	102	0.00
10	T	n-Eicosane (C20)	126.177	128.389 E3	-1.8	103	0.00
11	T	n-Heneicosane (C21)	123.415	125.372 E3	-1.6	103	0.00
12	S	1-chlorooctadecane (SURR)	107.988	108.570 E3	-0.5	102	0.00
13	T	n-Docosane (C22)	122.449	124.334 E3	-1.5	103	0.00
14	T	n-Tetracosane (C24)	121.210	123.471 E3	-1.9	104	0.00
15	T	n-Hexacosane (C26)	119.056	121.947 E3	-2.4	104	0.00
16	T	n-Octacosane (C28)	117.647	122.991 E3	-4.5	106	0.00
17	T	n-Tricontane (C30)	120.871	130.719 E3	-8.1	110	0.00
18	T	n-Dotriacontane (C32)	118.320	131.322 E3	-11.0	113	0.00
19	T	n-Tetratriacontane (C34)	104.727	116.865 E3	-11.6	113	0.00
20	T	n-Hexatriacontane (C36)	91.027	99.615 E3	-9.4	111	0.00
21	T	n-Octatriacontane (C38)	86.602	91.771 E3	-6.0	107	0.00
22	T	n-Tetracontane (C40)	85.011	88.174 E3	-3.7	105	-0.01

Evaluate Continuing Calibration Report - Not Founds

(#) = Out of Range SPCC's out = 0 CCC's out = 0

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

Continuing Calibration Report for SequenceID : FD102824AR

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
File ID :	**FD048597.D**						
Aromatic C10-C12	6478652.000	40.000	4.094	5.812	161966.300	176202.694	8.080
Aromatic C12-C16	9681948.000	60.000	5.813	8.417	161365.800	177273.493	8.974
Aromatic C16-C21	11930066.000	80.000	8.418	12.677	149125.825	163832.550	8.977
Aromatic C21-C36	25141839.000	180.000	12.678	18.081	139676.883	152713.153	8.536
Aromatic EPH	53232505.000	360.000	4.094	18.081	147868.069	161887.469	8.660

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

Lab Sample ID:	20 PPM AROMATIC HC S	Acq On:	28 Oct 2024 09:53
Client Sample ID:		Operator:	YP/AJ
Data file:	FD048597.D	Misc:	
Instrument:	FID_D	ALS Vial:	52
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aromatic C10-C12	4.094	5.812	6478652.000	40.000	ug/ml
Aromatic C12-C16	5.813	8.417	9681948.000	60.000	ug/ml
Aromatic C16-C21	8.418	12.677	11930066.000	80.000	ug/ml
Aromatic C21-C36	12.678	18.081	25141839.000	180.000	ug/ml
Aromatic EPH	4.094	18.081	53232505.000	360.000	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD102824AR\
Data File : FD048597.D
Signal(s) : FID2B.ch
Acq On : 28 Oct 2024 09:53
Operator : YP/AJ
Sample : 20 PPM AROMATIC HC STD
Misc :
ALS Vial : 52 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD

Integration File: autoint1.e
Quant Time: Oct 29 00:21:43 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 18:14:59 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
4) S	2-Bromonaphthalene (S...	7.371	2750069	18.119 ug/ml
Spiked Amount	50.000		Recovery =	36.24%
6) S	2-Flurobiphenyl (SURR)	8.221	1804963	18.382 ug/ml
Spiked Amount	50.000 Range	0 - 131	Recovery =	36.76%
11) S	ortho-Terphenyl (SURR)	11.254	3100863	18.204 ug/ml
Spiked Amount	50.000		Recovery =	36.41%
	Target Compounds			
1) T	1,2,3-Trimethylbenzen...	4.194	3204368	18.419 ug/ml
2) T	Naphthalene (C11.7)	5.712	3274284	18.350 ug/ml
3) T	2-Methylnaphthalene (...	6.758	3257858	18.214 ug/ml
5) T	Acenaphthylene (C15.06)	8.023	3196472	18.204 ug/ml
7) T	Acenaphthene (C15.5)	8.317	3227618	18.198 ug/ml
8) T	Flouorene (C16.55)	9.095	3089442	18.277 ug/ml
9) T	Phenanthrene (C19.36)	10.481	3004248	18.174 ug/ml
10) T	Anthracene (C19.43)	10.557	2892176	18.086 ug/ml
12) T	Fluoranthene (C21.85)	12.284	3009589	18.287 ug/ml
13) T	Pyrene (C20.8)	12.577	2944200	18.278 ug/ml
14) T	Benzo[a]anthracene (C...	14.446	2701480	18.476 ug/ml
15) T	Chrysene (C27.41)	14.487	2944379	17.900 ug/ml
16) T	benzo[b]fluoranthene ...	15.992	2831272	18.623 ug/ml
17) T	Bnezo[k]fluoranthene ...	16.023	2767878	18.415 ug/ml
18) T	Benzo[a]pyrene (C31.34)	16.368	2793340	18.561 ug/ml
19) T	Indeno[1,2,3-cd]pyren...	17.732	2382399	18.259 ug/ml
20) T	Dibenz[a,h]anthracene...	17.771	2890047	17.759 ug/ml
21) T	Benzo[g,h,i]perylene ...	17.981	2821455	18.430 ug/ml

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

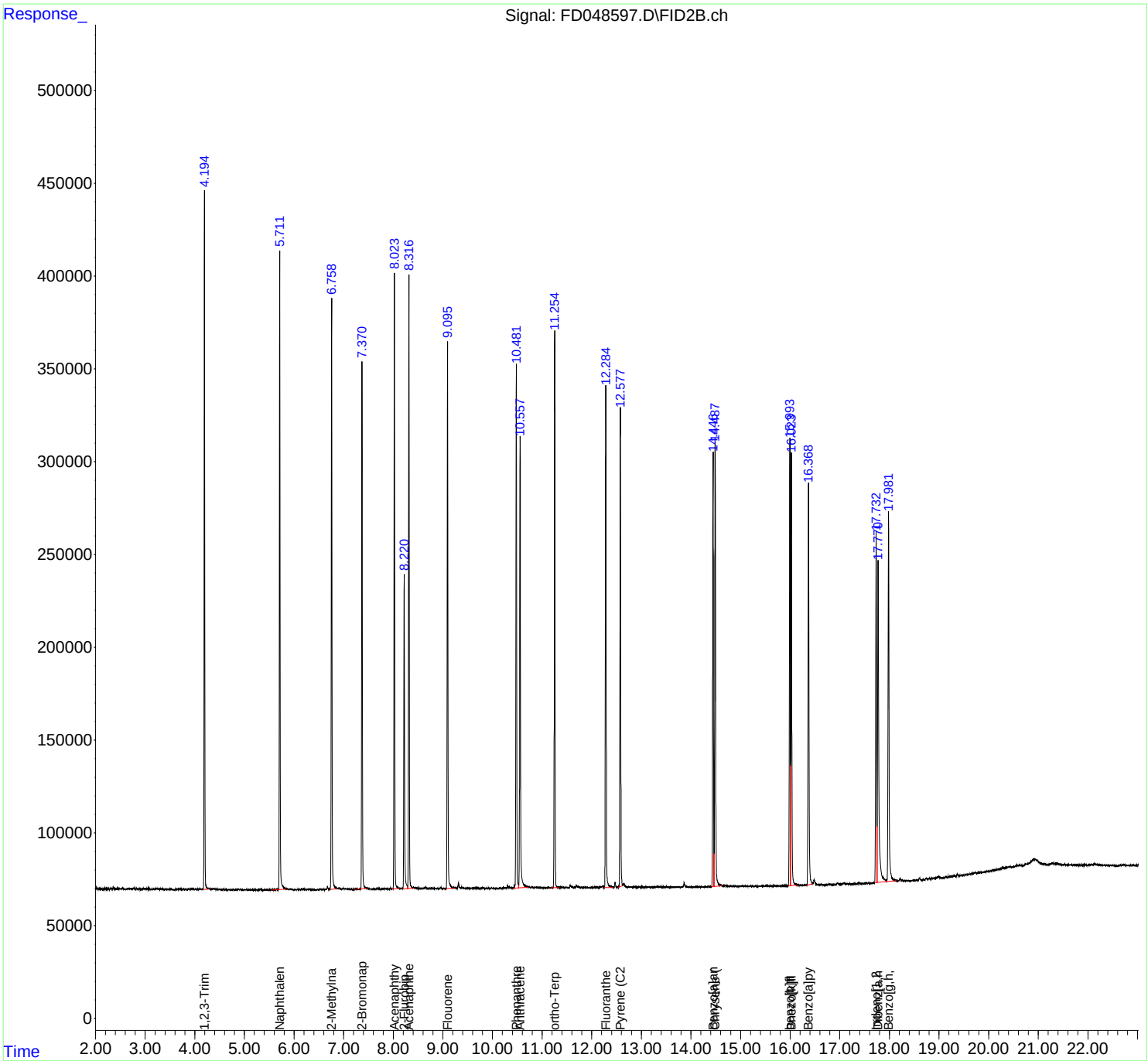
Quantitation Report (QT Reviewed)

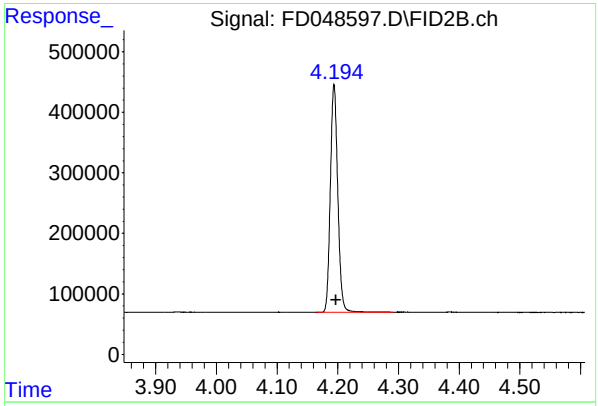
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD102824AR\
Data File : FD048597.D
Signal(s) : FID2B.ch
Acq On : 28 Oct 2024 09:53
Operator : YP/AJ
Sample : 20 PPM AROMATIC HC STD
Misc :
ALS Vial : 52 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD

Integration File: autoint1.e
Quant Time: Oct 29 00:21:43 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 18:14:59 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

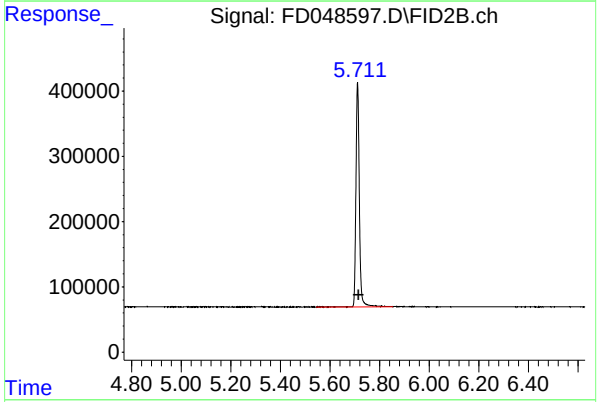




#1 1,2,3-Trimethylbenzene (C10.1)

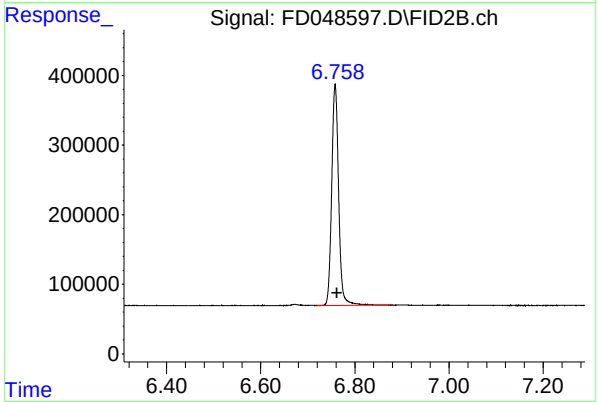
R.T.: 4.194 min
Delta R.T.: -0.003 mi
Response: 3204368
Conc: 18.42 ug/m

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD



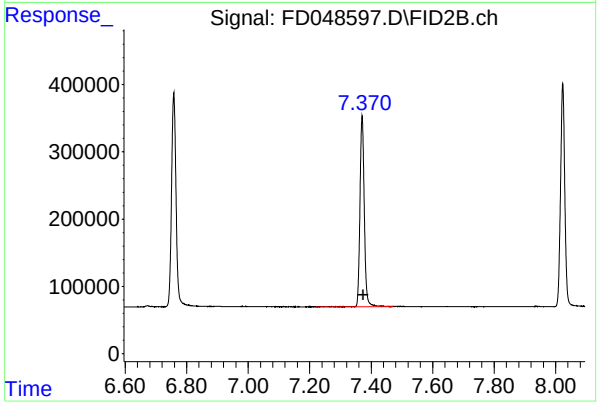
#2 Naphthalene (C11.7)

R.T.: 5.712 min
Delta R.T.: -0.004 min
Response: 3274284
Conc: 18.35 ug/ml



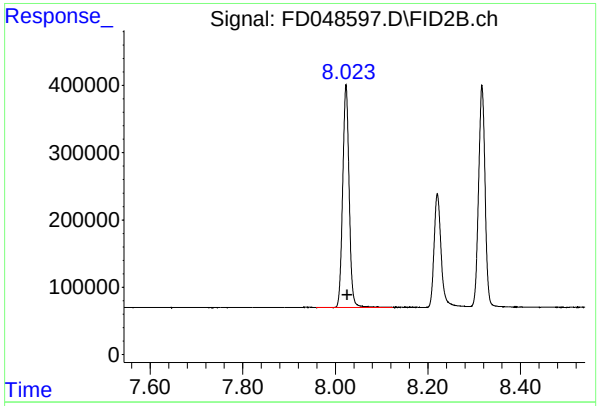
#3 2-Methylnaphthalene (C12.89)

R.T.: 6.758 min
Delta R.T.: -0.004 min
Response: 3257858
Conc: 18.21 ug/ml



#4 2-Bromonaphthalene (SURR)

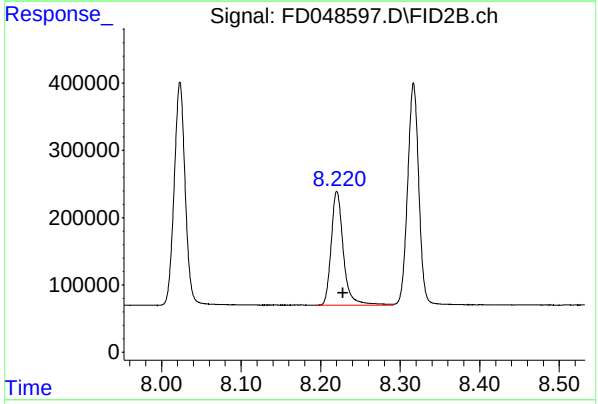
R.T.: 7.371 min
Delta R.T.: -0.004 min
Response: 2750069
Conc: 18.12 ug/ml



#5 Acenaphthylene (C15.06)

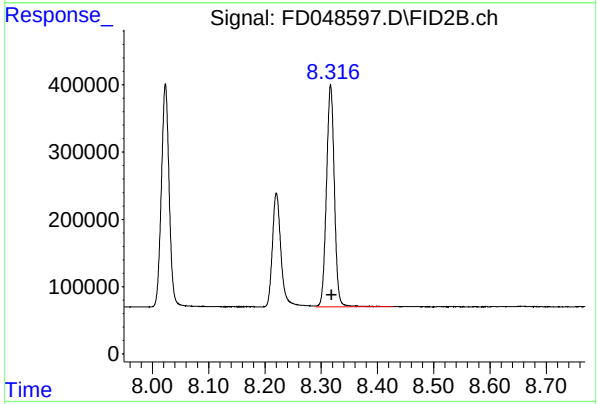
R.T.: 8.023 min
Delta R.T.: -0.003 min
Response: 3196472
Conc: 18.20 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD



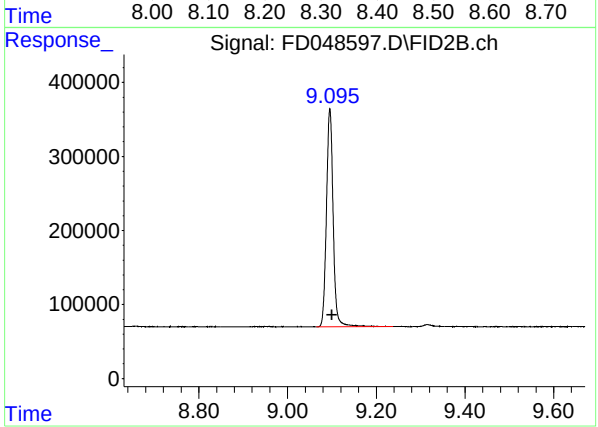
#6 2-Flurobiphenyl (SURR)

R.T.: 8.221 min
Delta R.T.: -0.007 min
Response: 1804963
Conc: 18.38 ug/ml



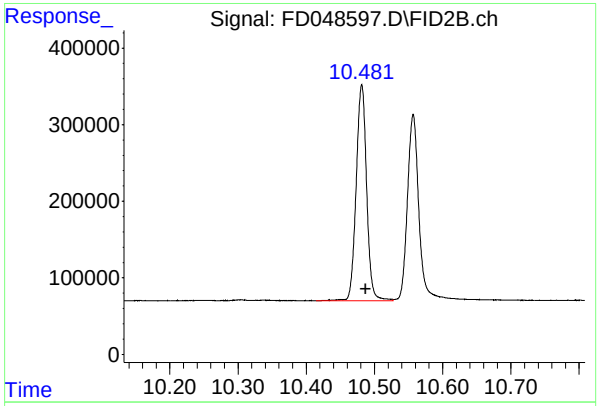
#7 Acenaphthene (C15.5)

R.T.: 8.317 min
Delta R.T.: -0.002 min
Response: 3227618
Conc: 18.20 ug/ml



#8 Flouorene (C16.55)

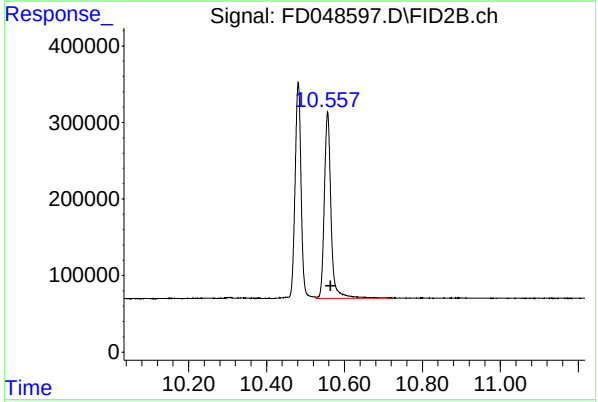
R.T.: 9.095 min
Delta R.T.: -0.005 min
Response: 3089442
Conc: 18.28 ug/ml



#9 Phenanthrene (C19.36)

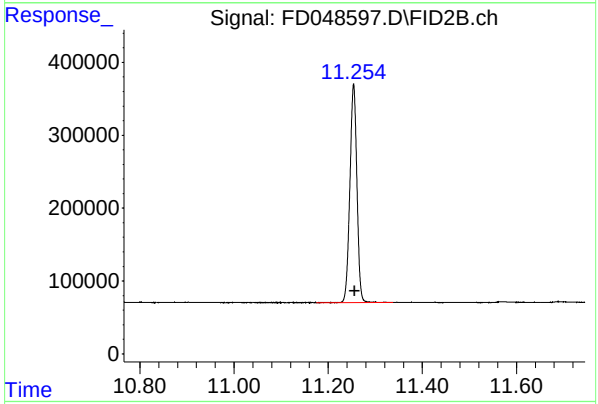
R.T.: 10.481 min
Delta R.T.: -0.006 min
Response: 3004248
Conc: 18.17 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD



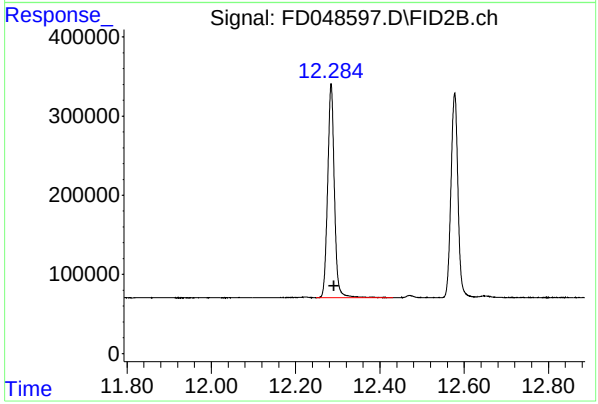
#10 Anthracene (C19.43)

R.T.: 10.557 min
Delta R.T.: -0.008 min
Response: 2892176
Conc: 18.09 ug/ml



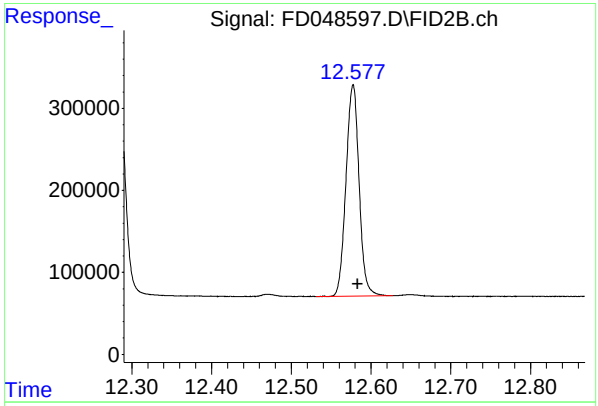
#11 ortho-Terphenyl (SURR)

R.T.: 11.254 min
Delta R.T.: -0.003 min
Response: 3100863
Conc: 18.20 ug/ml



#12 Fluoranthene (C21.85)

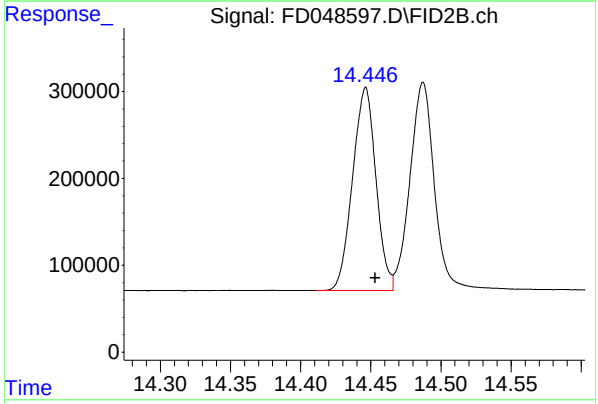
R.T.: 12.284 min
Delta R.T.: -0.007 min
Response: 3009589
Conc: 18.29 ug/ml



#13 Pyrene (C20.8)

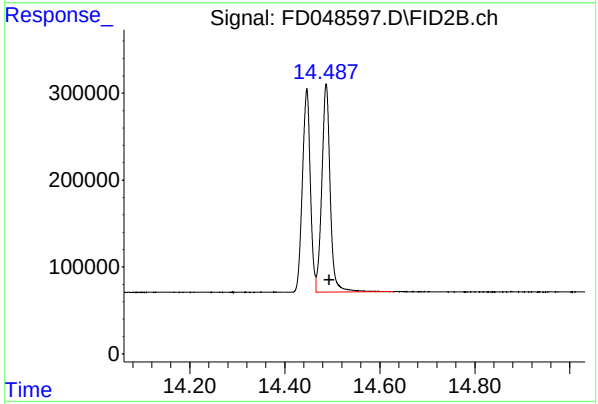
R.T.: 12.577 min
Delta R.T.: -0.006 min
Response: 2944200
Conc: 18.28 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD



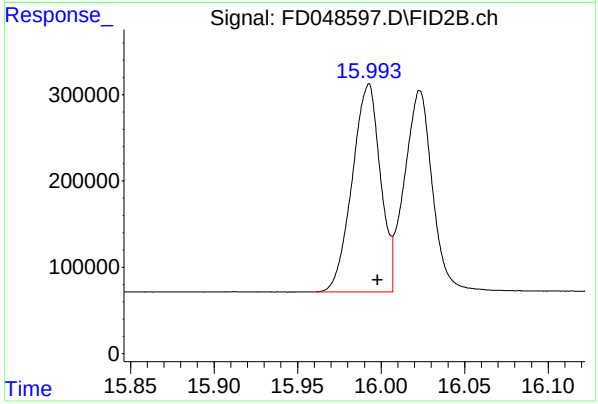
#14 Benzo[a]anthracene (C26.37)

R.T.: 14.446 min
Delta R.T.: -0.007 min
Response: 2701480
Conc: 18.48 ug/ml



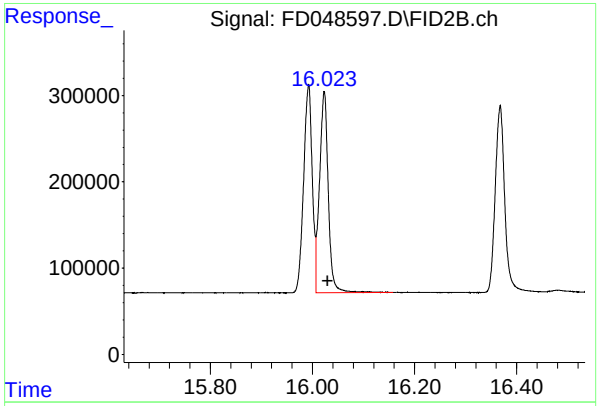
#15 Chrysene (C27.41)

R.T.: 14.487 min
Delta R.T.: -0.006 min
Response: 2944379
Conc: 17.90 ug/ml



#16 benzo[b]fluoranthene (C30.41)

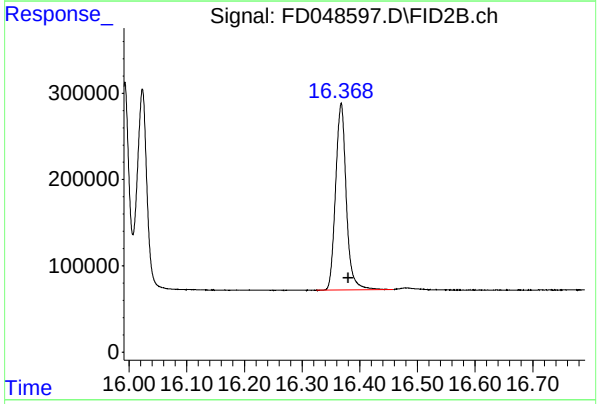
R.T.: 15.992 min
Delta R.T.: -0.006 min
Response: 2831272
Conc: 18.62 ug/ml



#17 Bnezo[k]fluoranthene (C30.14)

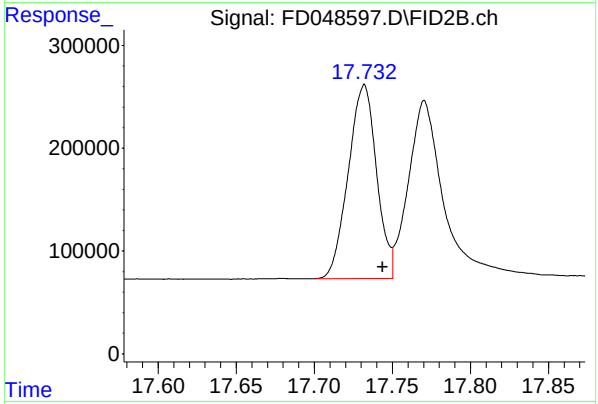
R.T.: 16.023 min
Delta R.T.: -0.007 min
Response: 2767878
Conc: 18.42 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD



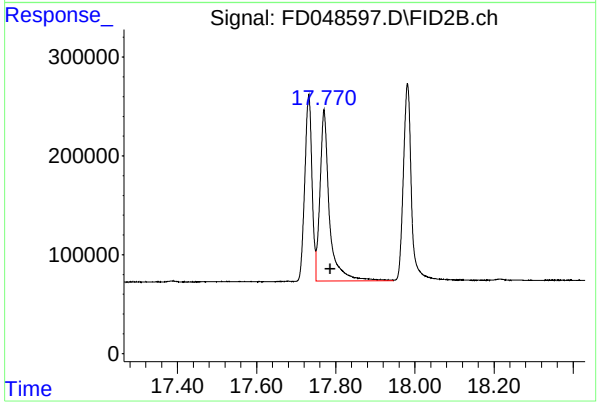
#18 Benzo[a]pyrene (C31.34)

R.T.: 16.368 min
Delta R.T.: -0.013 min
Response: 2793340
Conc: 18.56 ug/ml



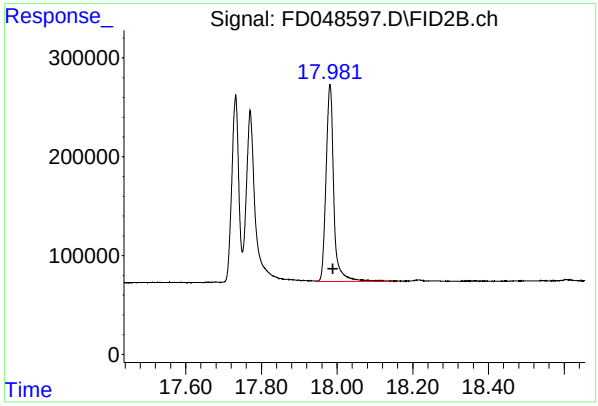
#19 Indeno[1,2,3-cd]pyrene (C35.01)

R.T.: 17.732 min
Delta R.T.: -0.012 min
Response: 2382399
Conc: 18.26 ug/ml



#20 Dibenz[a,h]anthracene (C30.36)

R.T.: 17.771 min
Delta R.T.: -0.016 min
Response: 2890047
Conc: 17.76 ug/ml



#21 Benzo[g,h,i]perylene (C34.01)

R.T.: 17.981 min
Delta R.T.: -0.008 mi
Response: 2821455
Conc: 18.43 ug/m

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD102824AR\
Data File : FD048597.D
Signal(s) : FID2B.ch
Acq On : 28 Oct 2024 09:53
Sample : 20 PPM AROMATIC HC STD
Misc :
ALS Vial : 52 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 102324.M
Title : GC Extractables

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.194	4.164	4.291	BB	374431	3204368	97.86%	5.263%
2	5.712	5.544	5.854	BB	343138	3274284	100.00%	5.378%
3	6.758	6.718	6.881	BV	317166	3257858	99.50%	5.351%
4	7.371	7.221	7.471	BB	283242	2750069	83.99%	4.517%
5	8.023	7.958	8.124	PB	331189	3196472	97.62%	5.250%
6	8.221	8.194	8.291	BV	168790	1804963	55.13%	2.964%
7	8.317	8.291	8.428	VB	329212	3227618	98.57%	5.301%
8	9.095	9.064	9.238	BB	293531	3089442	94.35%	5.074%
9	10.481	10.414	10.527	BV	281587	3004248	91.75%	4.934%
10	10.557	10.527	10.724	VB	243370	2892176	88.33%	4.750%
11	11.254	11.174	11.338	BB	300043	3100863	94.70%	5.093%
12	12.284	12.249	12.431	PB	270893	3009589	91.92%	4.943%
13	12.577	12.531	12.627	PV	258244	2944200	89.92%	4.835%
14	14.446	14.411	14.466	BV	234836	2701480	82.51%	4.437%
15	14.487	14.466	14.628	VB	240102	2944379	89.92%	4.836%
16	15.992	15.961	16.007	BV	237684	2831272	86.47%	4.650%
17	16.023	16.007	16.158	VB	235041	2767878	84.53%	4.546%
18	16.368	16.324	16.458	BV	216126	2793340	85.31%	4.588%
19	17.732	17.701	17.750	BV	187098	2382399	72.76%	3.913%
20	17.771	17.750	17.945	VV	172722	2890047	88.26%	4.746%
21	17.981	17.945	18.148	VB	199379	2821455	86.17%	4.634%
			Sum of corrected areas:			60888399		

Aromatic EPH 102324.M Tue Oct 29 05:17:02 2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD102824AR\
Data File : FD048597.D
Signal(s) : FID2B.ch
Acq On : 28 Oct 2024 09:53
Operator : YP/AJ
Sample : 20 PPM AROMATIC HC STD
Misc :
ALS Vial : 52 Sample Multiplier: 1

Instrument :
FID_D
LabSampleId :
20 PPM AROMATIC HC STD

Integration File: autoint1.e
Quant Time: Oct 29 00:21:43 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 18:14:59 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF		%Dev	Area%	Dev(Min)
1	T	1,2,3-Trimethylbenzene (C10	173.971	160.218	E3	7.9	93	0.00
2	T	Naphthalene (C11.7)	178.434	163.714	E3	8.2	91	0.00
3	T	2-Methylnaphthalene (C12.89	178.865	162.893	E3	8.9	91	0.00
4	S	2-Bromonaphthalene (SURR)	151.779	137.503	E3	9.4	90	0.00
5	T	Acenaphthylene (C15.06)	175.592	159.824	E3	9.0	91	0.00
6	S	2-Flurobiphenyl (SURR)	98.192	90.248	E3	8.1	90	0.00
7	T	Acenaphthene (C15.5)	177.363	161.381	E3	9.0	91	0.00
8	T	Flouorene (C16.55)	169.037	154.472	E3	8.6	91	0.00
9	T	Phenanthrene (C19.36)	165.306	150.212	E3	9.1	90	0.00
10	T	Anthracene (C19.43)	159.910	144.609	E3	9.6	90	0.00
11	S	ortho-Terphenyl (SURR)	170.340	155.043	E3	9.0	91	0.00
12	T	Fluoranthene (C21.85)	164.577	150.479	E3	8.6	91	0.00
13	T	Pyrene (C20.8)	161.077	147.210	E3	8.6	91	0.00
14	T	Benzo[a]anthracene (C26.37)	146.215	135.074	E3	7.6	91	0.00
15	T	Chrysene (C27.41)	164.492	147.219	E3	10.5	91	0.00
16	T	benzo[b]fluoranthene (C30.4	152.029	141.564	E3	6.9	92	0.00
17	T	Bnezo[k]fluoranthene (C30.1	150.304	138.394	E3	7.9	92	0.00
18	T	Benzo[a]pyrene (C31.34)	150.496	139.667	E3	7.2	92	-0.01
19	T	Indeno[1,2,3-cd]pyrene (C35	130.478	119.120	E3	8.7	90	-0.01
20	T	Dibenz[a,h]anthracene (C30.	162.735	144.502	E3	11.2	89	-0.02
21	T	Benzo[g,h,i]perylene (C34.0	153.092	141.073	E3	7.9	92	0.00

Evaluate Continuing Calibration Report - Not Founds

(#) = Out of Range SPCC's out = 0 CCC's out = 0

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

Continuing Calibration Report for SequenceID : FD102824AR

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
File ID :	**FD048602.D**						
Aromatic C10-C12	6734968.000	40.000	4.094	5.812	168374.200	176202.694	4.443
Aromatic C12-C16	10158777.000	60.000	5.813	8.417	169312.950	177273.493	4.491
Aromatic C16-C21	12462820.000	80.000	8.418	12.677	155785.250	163832.550	4.912
Aromatic C21-C36	25673678.000	180.000	12.678	18.081	142631.544	152713.153	6.602
Aromatic EPH	55030243.000	360.000	4.094	18.081	152861.786	161887.469	5.575

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

Lab Sample ID:	20 PPM AROMATIC HC S	Acq On:	28 Oct 2024 13:17
Client Sample ID:		Operator:	YP/AJ
Data file:	FD048602.D	Misc:	
Instrument:	FID_D	ALS Vial:	52
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aromatic C10-C12	4.094	5.812	6734968.000	40.000	ug/ml
Aromatic C12-C16	5.813	8.417	10158777.000	60.000	ug/ml
Aromatic C16-C21	8.418	12.677	12462820.000	80.000	ug/ml
Aromatic C21-C36	12.678	18.081	25673678.000	180.000	ug/ml
Aromatic EPH	4.094	18.081	55030243.000	360.000	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD102824AR\
Data File : FD048602.D
Signal(s) : FID2B.ch
Acq On : 28 Oct 2024 13:17
Operator : YP/AJ
Sample : 20 PPM AROMATIC HC STD
Misc :
ALS Vial : 52 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 10/29/2024
Supervised By :Ankita Jodhani 10/29/2024

Integration File: autoint1.e
Quant Time: Oct 29 00:22:23 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 18:14:59 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
4) S	2-Bromonaphthalene (S...	7.370	2925007	19.272 ug/mlm
Spiked Amount	50.000		Recovery =	38.54%
6) S	2-Flurobiphenyl (SURR)	8.221	1888357	19.231 ug/ml
Spiked Amount	50.000 Range	0 - 131	Recovery =	38.46%
11) S	ortho-Terphenyl (SURR)	11.254	3233046	18.980 ug/ml
Spiked Amount	50.000		Recovery =	37.96%
	Target Compounds			
1) T	1,2,3-Trimethylbenzen...	4.194	3325024	19.112 ug/ml
2) T	Naphthalene (C11.7)	5.712	3409944	19.110 ug/ml
3) T	2-Methylnaphthalene (...	6.757	3429960	19.176 ug/ml
5) T	Acenaphthylene (C15.06)	8.023	3346159	19.056 ug/ml
7) T	Acenaphthene (C15.5)	8.317	3382658	19.072 ug/ml
8) T	Flouorene (C16.55)	9.095	3249197	19.222 ug/mlm
9) T	Phenanthrene (C19.36)	10.482	3142471	19.010 ug/ml
10) T	Anthracene (C19.43)	10.557	3028028	18.936 ug/ml
12) T	Fluoranthene (C21.85)	12.285	3103818	18.859 ug/ml
13) T	Pyrene (C20.8)	12.578	3043124	18.892 ug/ml
14) T	Benzo[a]anthracene (C...	14.447	2767476	18.927 ug/ml
15) T	Chrysene (C27.41)	14.488	3026890	18.401 ug/ml
16) T	benzo[b]fluoranthene ...	15.993	2875532	18.914 ug/ml
17) T	Bnezo[k]fluoranthene ...	16.024	2823029	18.782 ug/ml
18) T	Benzo[a]pyrene (C31.34)	16.368	2810095	18.672 ug/ml
19) T	Indeno[1,2,3-cd]pyren...	17.731	2412922	18.493 ug/ml
20) T	Dibenz[a,h]anthracene...	17.771	2974886	18.281 ug/ml
21) T	Benzo[g,h,i]perylene ...	17.982	2879030	18.806 ug/ml

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

Quantitation Report (QT Reviewed)

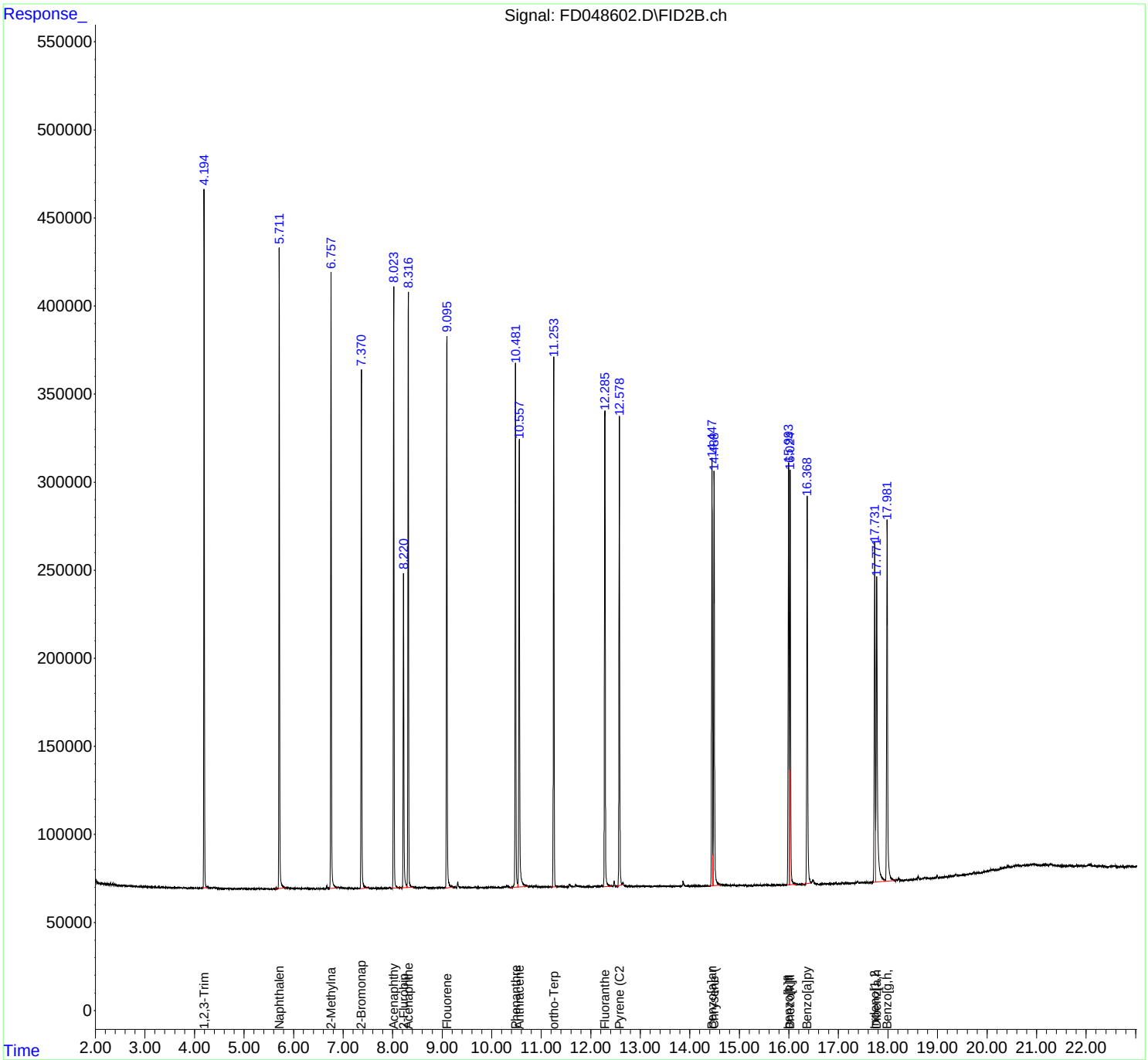
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD102824AR\
Data File : FD048602.D
Signal(s) : FID2B.ch
Acq On : 28 Oct 2024 13:17
Operator : YP/AJ
Sample : 20 PPM AROMATIC HC STD
Misc :
ALS Vial : 52 Sample Multiplier: 1

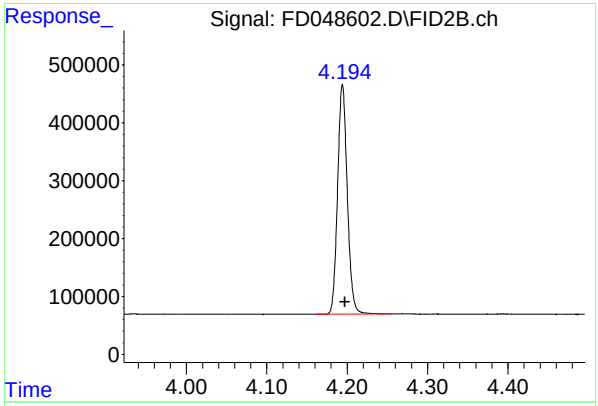
Integration File: autoint1.e
Quant Time: Oct 29 00:22:23 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 18:14:59 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 10/29/2024
Supervised By :Ankita Jodhani 10/29/2024





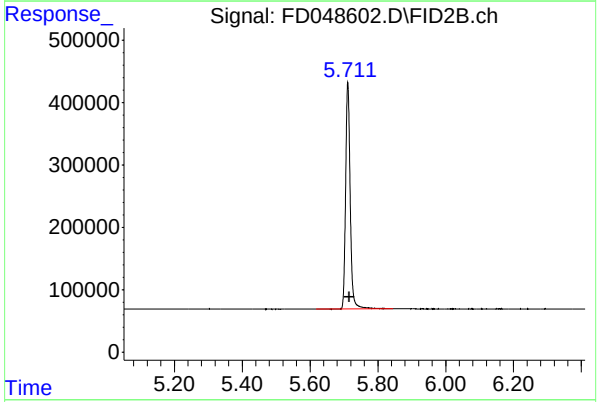
#1 1,2,3-Trimethylbenzene (C10.1)

R.T.: 4.194 min
Delta R.T.: -0.003 min
Response: 3325024
Conc: 19.11 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD

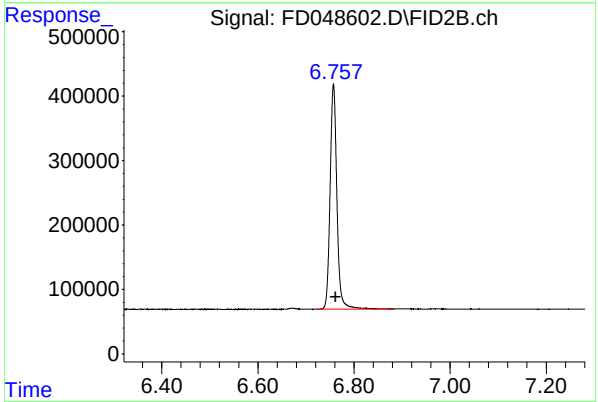
Manual Integrations APPROVED

Reviewed By :Yogesh Patel 10/29/2024
Supervised By :Ankita Jodhani 10/29/2024



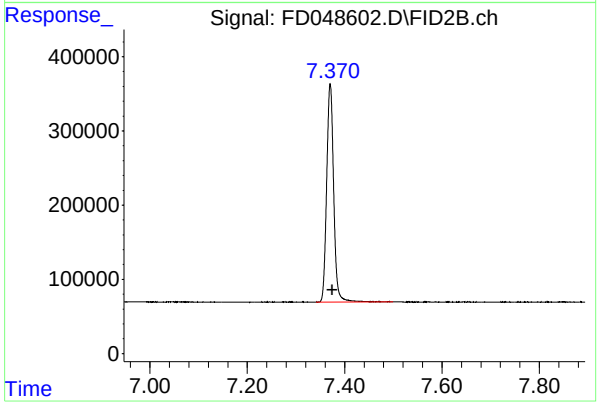
#2 Naphthalene (C11.7)

R.T.: 5.712 min
Delta R.T.: -0.004 min
Response: 3409944
Conc: 19.11 ug/ml



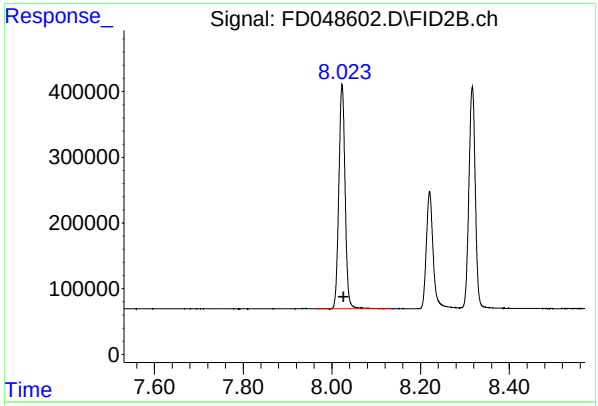
#3 2-Methylnaphthalene (C12.89)

R.T.: 6.757 min
Delta R.T.: -0.005 min
Response: 3429960
Conc: 19.18 ug/ml



#4 2-Bromonaphthalene (SURR)

R.T.: 7.370 min
Delta R.T.: -0.005 min
Response: 2925007
Conc: 19.27 ug/ml m



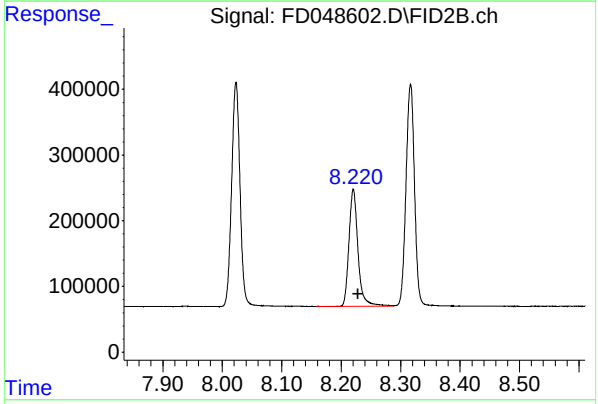
#5 Acenaphthylene (C15.06)

R.T.: 8.023 min
Delta R.T.: -0.003 min
Response: 3346159
Conc: 19.06 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD

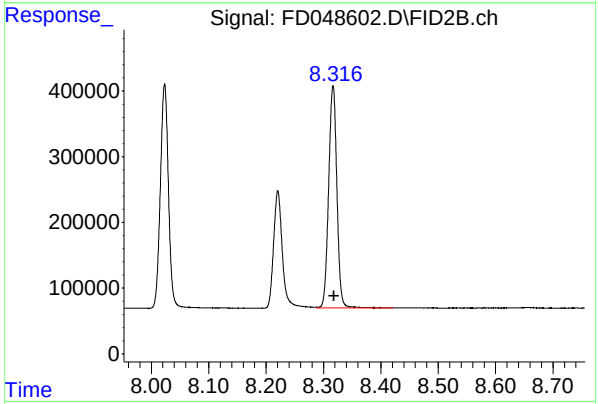
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/29/2024
Supervised By :Ankita Jodhani 10/29/2024



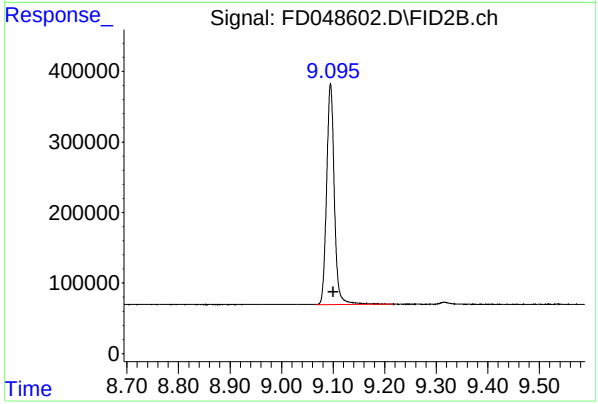
#6 2-Flurobiphenyl (SURR)

R.T.: 8.221 min
Delta R.T.: -0.008 min
Response: 1888357
Conc: 19.23 ug/ml



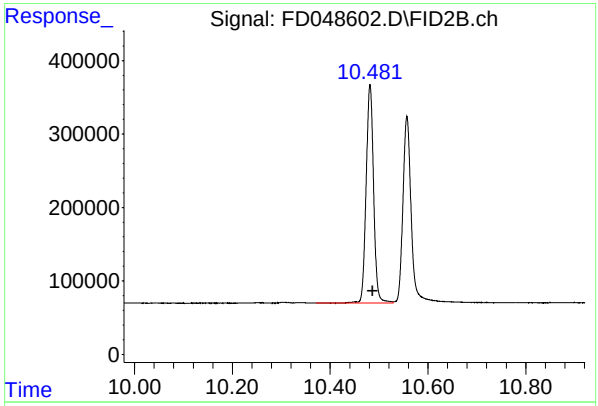
#7 Acenaphthene (C15.5)

R.T.: 8.317 min
Delta R.T.: -0.002 min
Response: 3382658
Conc: 19.07 ug/ml



#8 Flouorene (C16.55)

R.T.: 9.095 min
Delta R.T.: -0.006 min
Response: 3249197
Conc: 19.22 ug/ml m



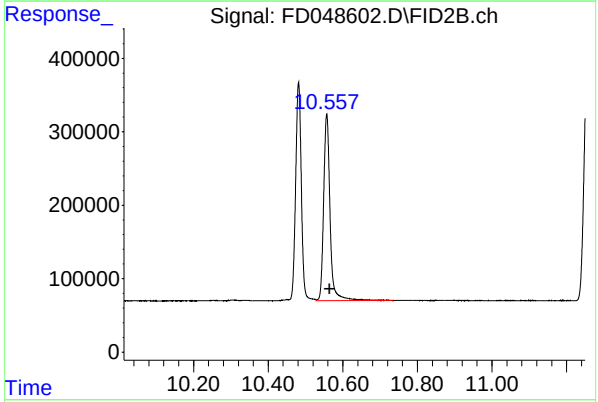
#9 Phenanthrene (C19.36)

R.T.: 10.482 min
Delta R.T.: -0.006 min
Response: 3142471
Conc: 19.01 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD

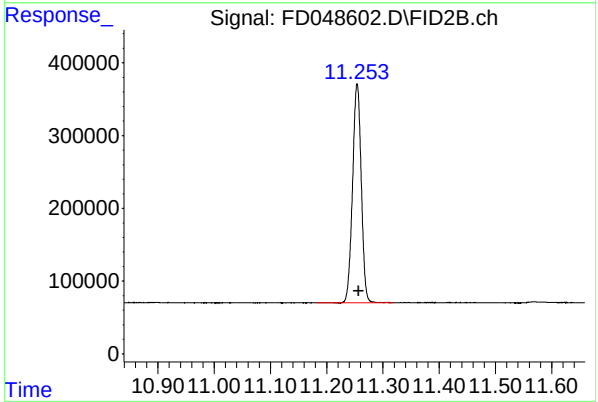
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/29/2024
Supervised By :Ankita Jodhani 10/29/2024



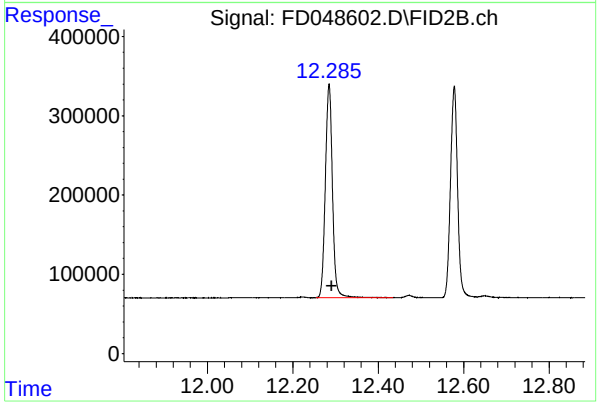
#10 Anthracene (C19.43)

R.T.: 10.557 min
Delta R.T.: -0.008 min
Response: 3028028
Conc: 18.94 ug/ml



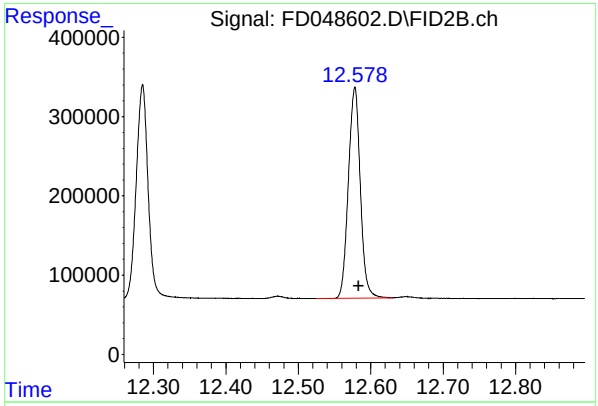
#11 ortho-Terphenyl (SURR)

R.T.: 11.254 min
Delta R.T.: -0.003 min
Response: 3233046
Conc: 18.98 ug/ml



#12 Fluoranthene (C21.85)

R.T.: 12.285 min
Delta R.T.: -0.007 min
Response: 3103818
Conc: 18.86 ug/ml



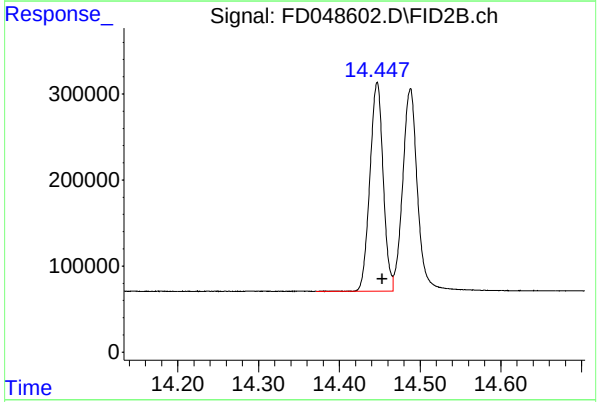
#13 Pyrene (C20.8)

R.T.: 12.578 min
Delta R.T.: -0.005 min
Response: 3043124
Conc: 18.89 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD

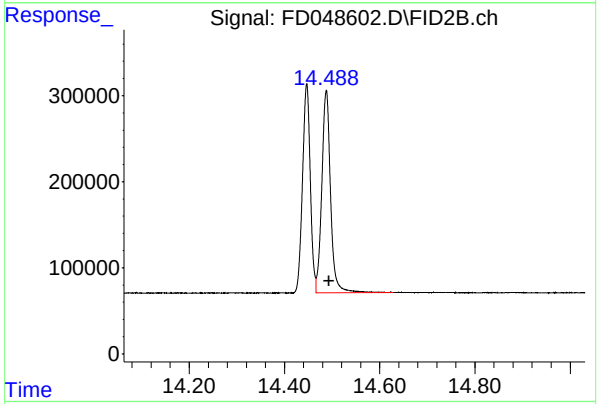
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/29/2024
Supervised By :Ankita Jodhani 10/29/2024



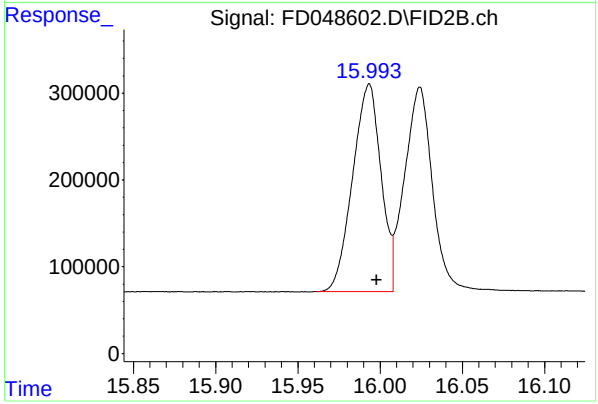
#14 Benzo[a]anthracene (C26.37)

R.T.: 14.447 min
Delta R.T.: -0.007 min
Response: 2767476
Conc: 18.93 ug/ml



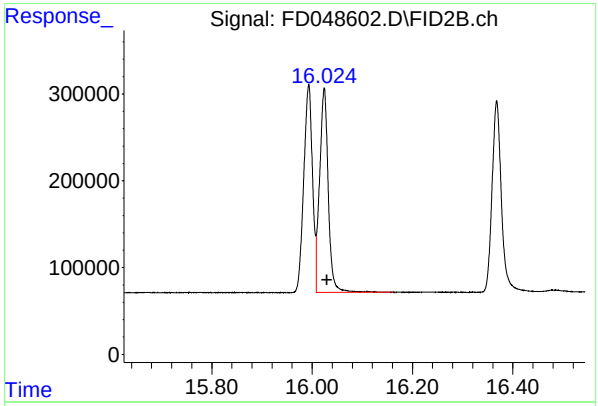
#15 Chrysene (C27.41)

R.T.: 14.488 min
Delta R.T.: -0.006 min
Response: 3026890
Conc: 18.40 ug/ml



#16 benzo[b]fluoranthene (C30.41)

R.T.: 15.993 min
Delta R.T.: -0.005 min
Response: 2875532
Conc: 18.91 ug/ml



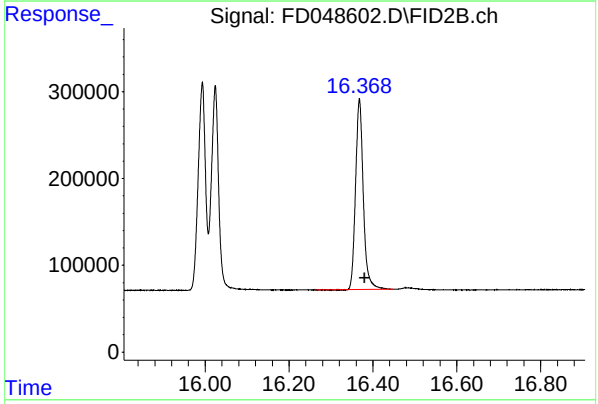
#17 Bnezo[k]fluoranthene (C30.14)

R.T.: 16.024 min
Delta R.T.: -0.006 min
Response: 2823029
Conc: 18.78 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD

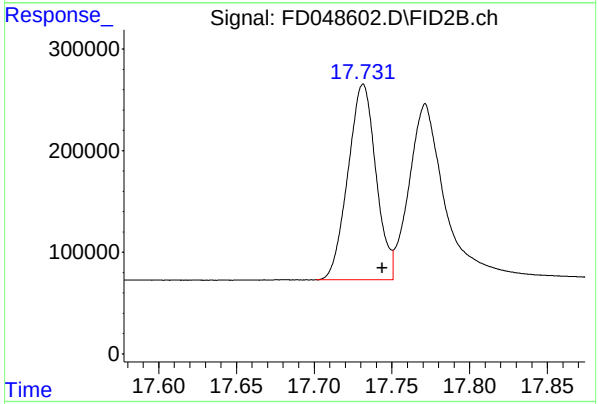
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/29/2024
Supervised By :Ankita Jodhani 10/29/2024



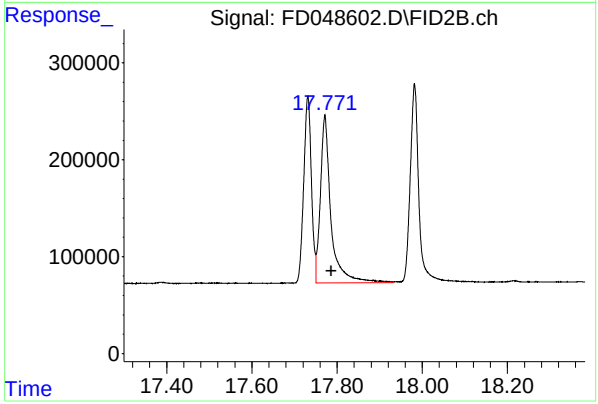
#18 Benzo[a]pyrene (C31.34)

R.T.: 16.368 min
Delta R.T.: -0.013 min
Response: 2810095
Conc: 18.67 ug/ml



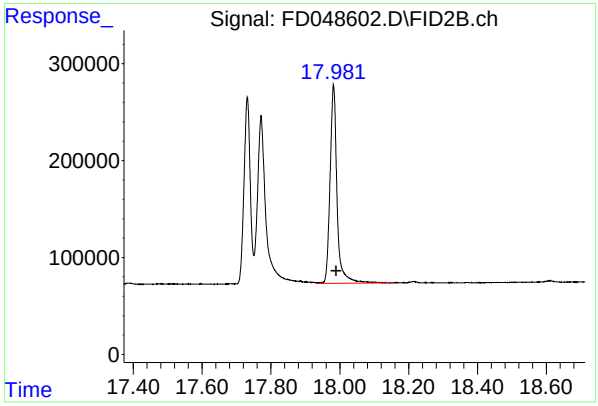
#19 Indeno[1,2,3-cd]pyrene (C35.01)

R.T.: 17.731 min
Delta R.T.: -0.012 min
Response: 2412922
Conc: 18.49 ug/ml



#20 Dibenz[a,h]anthracene (C30.36)

R.T.: 17.771 min
Delta R.T.: -0.015 min
Response: 2974886
Conc: 18.28 ug/ml



#21 Benzo[g,h,i]perylene (C34.01)

R.T.: 17.982 min
Delta R.T.: -0.008 mi
Response: 2879030
Conc: 18.81 ug/m

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/29/2024
Supervised By :Ankita Jodhani 10/29/2024

Instrument :
FID_D
LabSampleId :
20 PPM AROMATIC HC STD

rteres

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 10/29/2024
Supervised By :Ankita Jodhani 10/29/2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD10282
Data File : FD048602.D
Signal(s) : FID2B.ch
Acq On : 28 Oct 2024 13:17
Sample : 20 PPM AROMATIC HC STD
Misc :
ALS Vial : 52 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 102324.M
Title : GC Extractables

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.194	4.161	4.257	BV	395427	3325024	96.94%	5.274%
2	5.712	5.618	5.845	BB	363459	3409944	99.42%	5.409%
3	6.757	6.721	6.881	BV	348590	3429960	100.00%	5.441%
4	7.370	7.171	7.498	BB	294014	2903989	84.67%	4.606%
5	8.023	7.965	8.138	BB	340900	3346159	97.56%	5.308%
6	8.221	8.158	8.287	BV	178209	1888357	55.05%	2.995%
7	8.317	8.287	8.421	VB	340358	3382658	98.62%	5.366%
8	9.095	8.845	9.235	BB	312330	3235080	94.32%	5.132%
9	10.482	10.371	10.528	BV	297120	3142471	91.62%	4.985%
10	10.557	10.528	10.735	VB	253802	3028028	88.28%	4.803%
11	11.254	11.181	11.318	BV	301489	3233046	94.26%	5.128%
12	12.285	12.255	12.435	BB	269062	3103818	90.49%	4.923%
13	12.578	12.525	12.631	BV	265945	3043124	88.72%	4.827%
14	14.447	14.371	14.466	BV	244087	2767476	80.69%	4.390%
15	14.488	14.466	14.628	VB	235083	3026890	88.25%	4.801%
16	15.993	15.961	16.008	BV	241955	2875532	83.84%	4.561%
17	16.024	16.008	16.161	VB	236537	2823029	82.31%	4.478%
18	16.368	16.265	16.448	BV	219145	2810095	81.93%	4.458%
19	17.731	17.701	17.751	BV	192681	2412922	70.35%	3.828%
20	17.771	17.751	17.931	VV	172445	2974886	86.73%	4.719%
21	17.982	17.931	18.155	VV	204462	2879030	83.94%	4.567%
			Sum of corrected areas:			63041520		

Aromatic EPH 102324.M Tue Oct 29 05:17:33 2024

Evaluate Continuing Calibration Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD102824AR\
Data File : FD048602.D
Signal(s) : FID2B.ch
Acq On : 28 Oct 2024 13:17
Operator : YP/AJ
Sample : 20 PPM AROMATIC HC STD
Misc :
ALS Vial : 52 Sample Multiplier: 1

Instrument :
FID_D
LabSampleId :
20 PPM AROMATIC HC STD

Integration File: autoint1.e
Quant Time: Oct 29 00:22:23 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 18:14:59 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF		%Dev	Area%	Dev(Min)
1	T	1,2,3-Trimethylbenzene (C10	173.971	166.251	E3	4.4	96	0.00
2	T	Naphthalene (C11.7)	178.434	170.497	E3	4.4	95	0.00
3	T	2-Methylnaphthalene (C12.89	178.865	171.498	E3	4.1	95	0.00
4	S	2-Bromonaphthalene (SURR)	151.779	146.250	E3	3.6	96	0.00
5	T	Acenaphthylene (C15.06)	175.592	167.308	E3	4.7	95	0.00
6	S	2-Flurobiphenyl (SURR)	98.192	94.418	E3	3.8	95	0.00
7	T	Acenaphthene (C15.5)	177.363	169.133	E3	4.6	95	0.00
8	T	Flouorene (C16.55)	169.037	162.460	E3	3.9	95	0.00
9	T	Phenanthrene (C19.36)	165.306	157.124	E3	4.9	94	0.00
10	T	Anthracene (C19.43)	159.910	151.401	E3	5.3	94	0.00
11	S	ortho-Terphenyl (SURR)	170.340	161.652	E3	5.1	95	0.00
12	T	Fluoranthene (C21.85)	164.577	155.191	E3	5.7	94	0.00
13	T	Pyrene (C20.8)	161.077	152.156	E3	5.5	94	0.00
14	T	Benzo[a]anthracene (C26.37)	146.215	138.374	E3	5.4	93	0.00
15	T	Chrysene (C27.41)	164.492	151.344	E3	8.0	93	0.00
16	T	benzo[b]fluoranthene (C30.4	152.029	143.777	E3	5.4	94	0.00
17	T	Bnezo[k]fluoranthene (C30.1	150.304	141.151	E3	6.1	93	0.00
18	T	Benzo[a]pyrene (C31.34)	150.496	140.505	E3	6.6	93	-0.01
19	T	Indeno[1,2,3-cd]pyrene (C35	130.478	120.646	E3	7.5	92	-0.01
20	T	Dibenz[a,h]anthracene (C30.	162.735	148.744	E3	8.6	91	-0.02
21	T	Benzo[g,h,i]perylene (C34.0	153.092	143.952	E3	6.0	94	0.00

Evaluate Continuing Calibration Report - Not Founds

(#) = Out of Range SPCC's out = 0 CCC's out = 0

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

Continuing Calibration Report for SequenceID : FD102824AR

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
File ID :	**FD048614.D**						
Aromatic C10-C12	6535868.000	40.000	4.094	5.812	163396.700	176202.694	7.268
Aromatic C12-C16	9728504.000	60.000	5.813	8.417	162141.733	177273.493	8.536
Aromatic C16-C21	11847029.000	80.000	8.418	12.677	148087.863	163832.550	9.610
Aromatic C21-C36	25259345.000	180.000	12.678	18.081	140329.694	152713.153	8.109
Aromatic EPH	53370746.000	360.000	4.094	18.081	148252.072	161887.469	8.423

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

Lab Sample ID:	20 PPM AROMATIC HC S	Acq On:	29 Oct 2024 08:54
Client Sample ID:		Operator:	YP/AJ
Data file:	FD048614.D	Misc:	
Instrument:	FID_D	ALS Vial:	52
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aromatic C10-C12	4.094	5.812	6535868.000	40.000	ug/ml
Aromatic C12-C16	5.813	8.417	9728504.000	60.000	ug/ml
Aromatic C16-C21	8.418	12.677	11847029.000	80.000	ug/ml
Aromatic C21-C36	12.678	18.081	25259345.000	180.000	ug/ml
Aromatic EPH	4.094	18.081	53370746.000	360.000	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD102824AR\
Data File : FD048614.D
Signal(s) : FID2B.ch
Acq On : 29 Oct 2024 08:54
Operator : YP/AJ
Sample : 20 PPM AROMATIC HC STD
Misc :
ALS Vial : 52 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD

Integration File: autoint1.e
Quant Time: Oct 30 02:39:10 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 18:14:59 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
4) S	2-Bromonaphthalene (S...	7.371	2783009	18.336 ug/ml
Spiked Amount	50.000		Recovery =	36.67%
6) S	2-Flurobiphenyl (SURR)	8.220	1811249	18.446 ug/ml
Spiked Amount	50.000 Range	0 - 131	Recovery =	36.89%
11) S	ortho-Terphenyl (SURR)	11.255	3076642	18.062 ug/ml
Spiked Amount	50.000		Recovery =	36.12%
	Target Compounds			
1) T	1,2,3-Trimethylbenzen...	4.194	3220349	18.511 ug/ml
2) T	Naphthalene (C11.7)	5.711	3315519	18.581 ug/ml
3) T	2-Methylnaphthalene (...	6.758	3293962	18.416 ug/ml
5) T	Acenaphthylene (C15.06)	8.023	3202755	18.240 ug/ml
7) T	Acenaphthene (C15.5)	8.317	3231787	18.221 ug/ml
8) T	Flouorene (C16.55)	9.095	3087206	18.264 ug/ml
9) T	Phenanthrene (C19.36)	10.482	2989978	18.088 ug/ml
10) T	Anthracene (C19.43)	10.557	2851757	17.833 ug/ml
12) T	Fluoranthene (C21.85)	12.285	2975015	18.077 ug/ml
13) T	Pyrene (C20.8)	12.578	2918088	18.116 ug/ml
14) T	Benzo[a]anthracene (C...	14.445	2689707	18.396 ug/ml
15) T	Chrysene (C27.41)	14.487	2954164	17.959 ug/ml
16) T	benzo[b]fluoranthene ...	15.993	2830811	18.620 ug/ml
17) T	Bnezo[k]fluoranthene ...	16.024	2756243	18.338 ug/ml
18) T	Benzo[a]pyrene (C31.34)	16.368	2798622	18.596 ug/ml
19) T	Indeno[1,2,3-cd]pyren...	17.731	2432714	18.645 ug/ml
20) T	Dibenz[a,h]anthracene...	17.771	2948384	18.118 ug/ml
21) T	Benzo[g,h,i]perylene ...	17.982	2873685	18.771 ug/ml

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

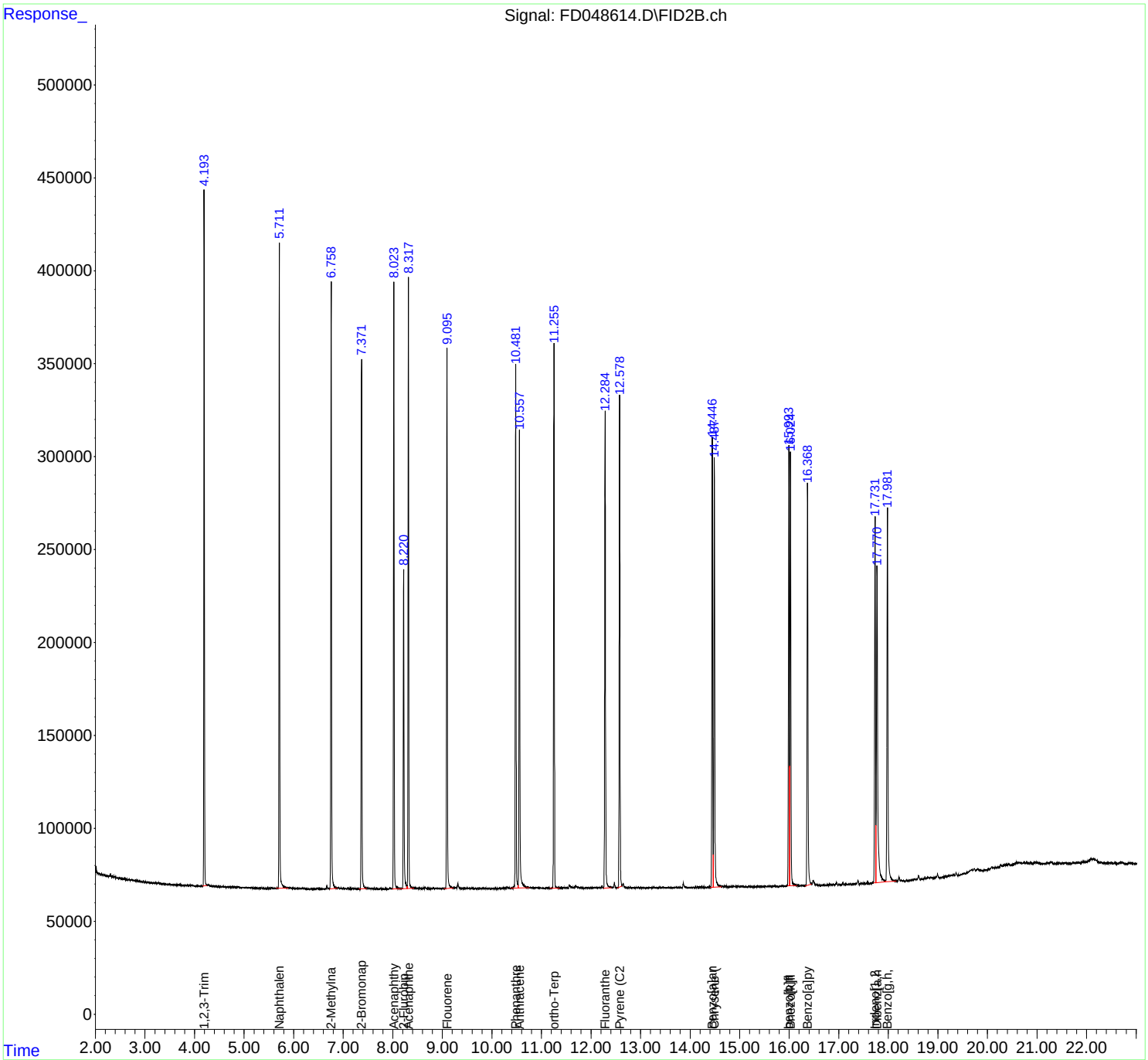
Quantitation Report (QT Reviewed)

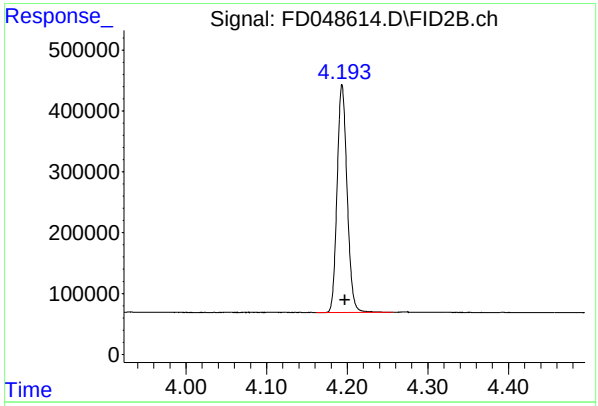
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD102824AR\
Data File : FD048614.D
Signal(s) : FID2B.ch
Acq On : 29 Oct 2024 08:54
Operator : YP/AJ
Sample : 20 PPM AROMATIC HC STD
Misc :
ALS Vial : 52 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD

Integration File: autoint1.e
Quant Time: Oct 30 02:39:10 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 18:14:59 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

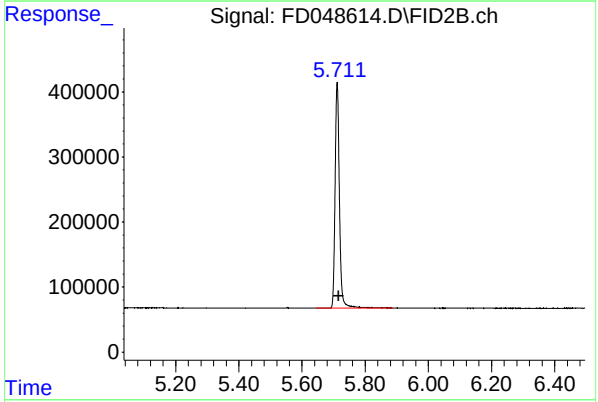




#1 1,2,3-Trimethylbenzene (C10.1)

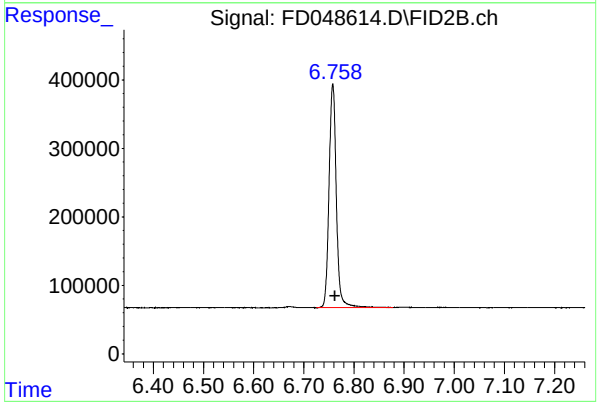
R.T.: 4.194 min
Delta R.T.: -0.003 min
Response: 3220349
Conc: 18.51 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD



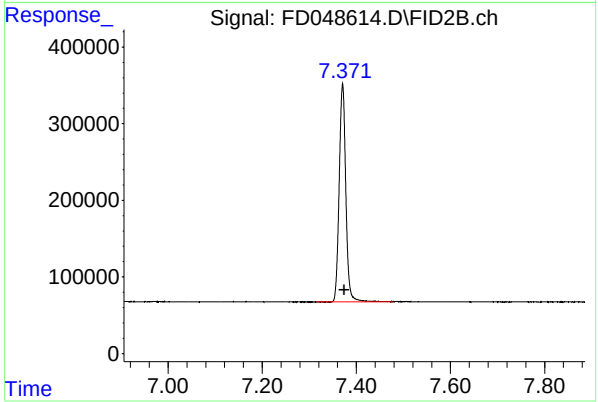
#2 Naphthalene (C11.7)

R.T.: 5.711 min
Delta R.T.: -0.004 min
Response: 3315519
Conc: 18.58 ug/ml



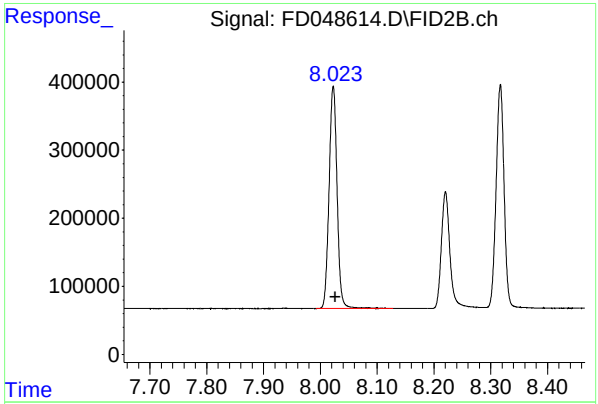
#3 2-Methylnaphthalene (C12.89)

R.T.: 6.758 min
Delta R.T.: -0.004 min
Response: 3293962
Conc: 18.42 ug/ml



#4 2-Bromonaphthalene (SURR)

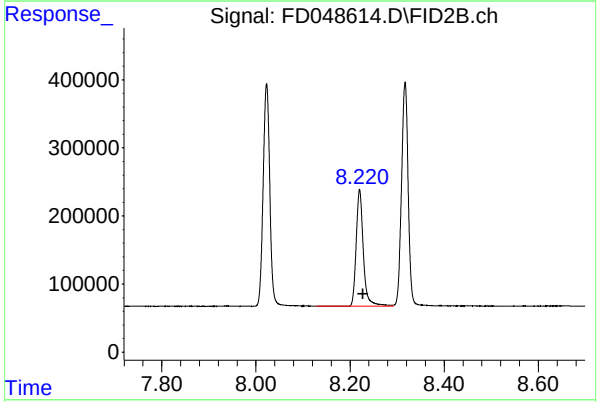
R.T.: 7.371 min
Delta R.T.: -0.004 min
Response: 2783009
Conc: 18.34 ug/ml



#5 Acenaphthylene (C15.06)

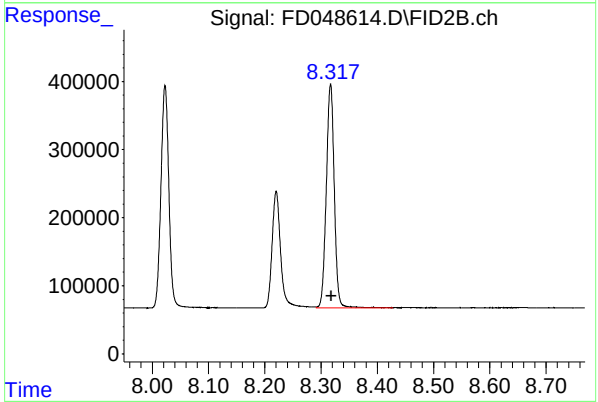
R.T.: 8.023 min
Delta R.T.: -0.003 min
Response: 3202755
Conc: 18.24 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD



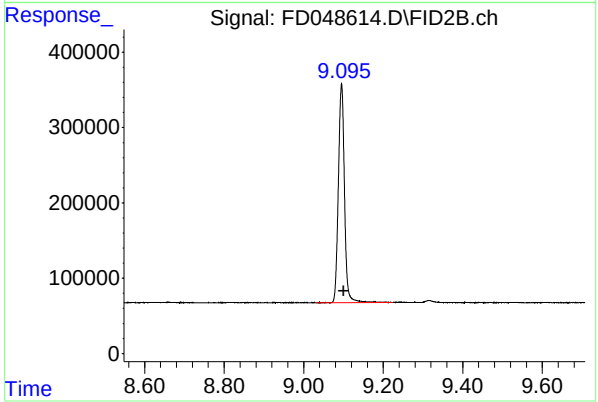
#6 2-Flurobiphenyl (SURR)

R.T.: 8.220 min
Delta R.T.: -0.008 min
Response: 1811249
Conc: 18.45 ug/ml



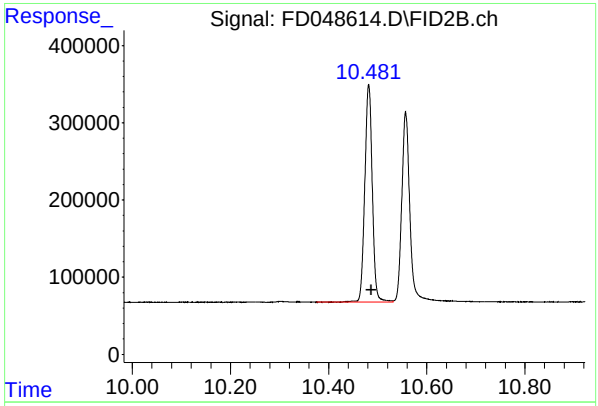
#7 Acenaphthene (C15.5)

R.T.: 8.317 min
Delta R.T.: -0.002 min
Response: 3231787
Conc: 18.22 ug/ml



#8 Flouorene (C16.55)

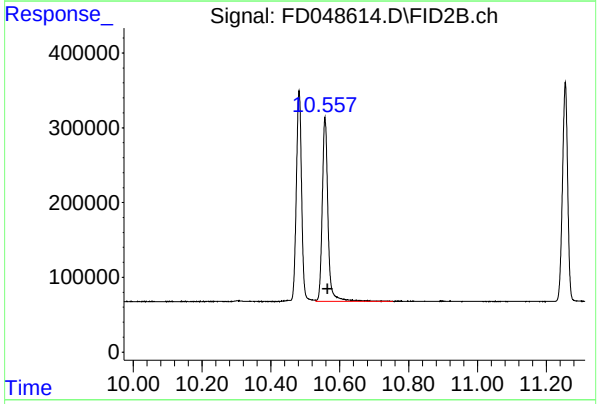
R.T.: 9.095 min
Delta R.T.: -0.005 min
Response: 3087206
Conc: 18.26 ug/ml



#9 Phenanthrene (C19.36)

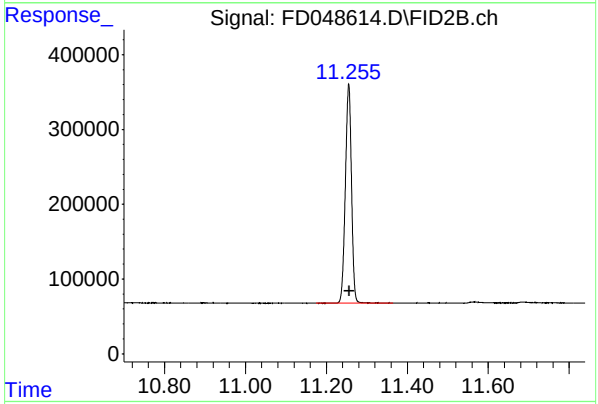
R.T.: 10.482 min
Delta R.T.: -0.006 min
Response: 2989978
Conc: 18.09 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD



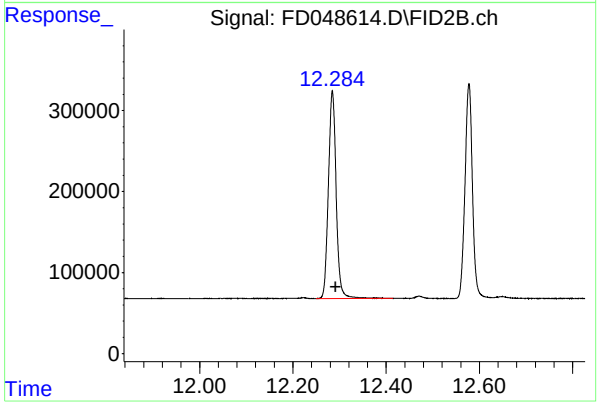
#10 Anthracene (C19.43)

R.T.: 10.557 min
Delta R.T.: -0.007 min
Response: 2851757
Conc: 17.83 ug/ml



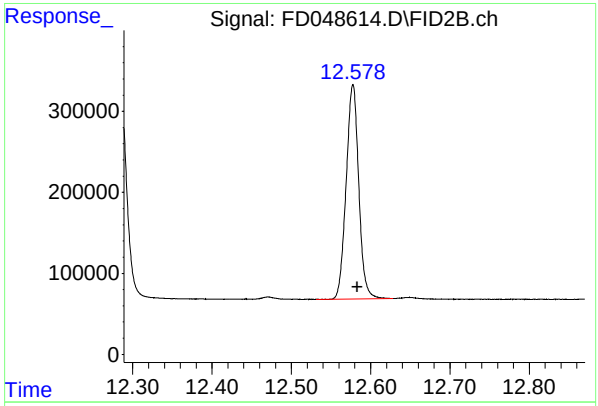
#11 ortho-Terphenyl (SURR)

R.T.: 11.255 min
Delta R.T.: -0.002 min
Response: 3076642
Conc: 18.06 ug/ml



#12 Fluoranthene (C21.85)

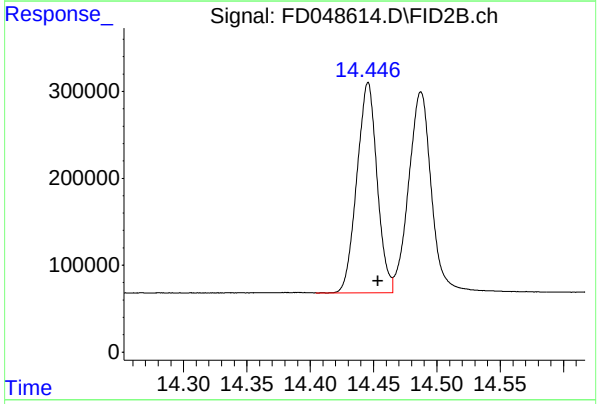
R.T.: 12.285 min
Delta R.T.: -0.007 min
Response: 2975015
Conc: 18.08 ug/ml



#13 Pyrene (C20.8)

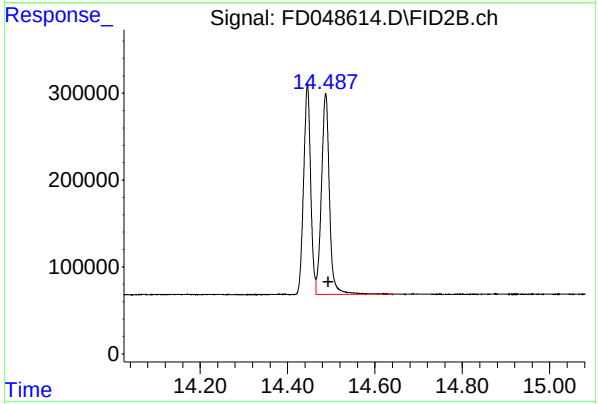
R.T.: 12.578 min
Delta R.T.: -0.006 min
Response: 2918088
Conc: 18.12 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD



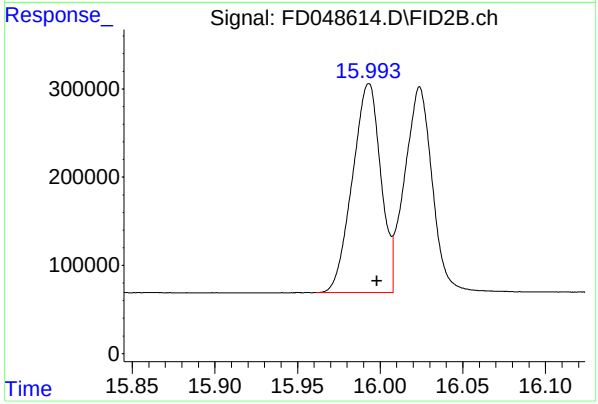
#14 Benzo[a]anthracene (C26.37)

R.T.: 14.445 min
Delta R.T.: -0.008 min
Response: 2689707
Conc: 18.40 ug/ml



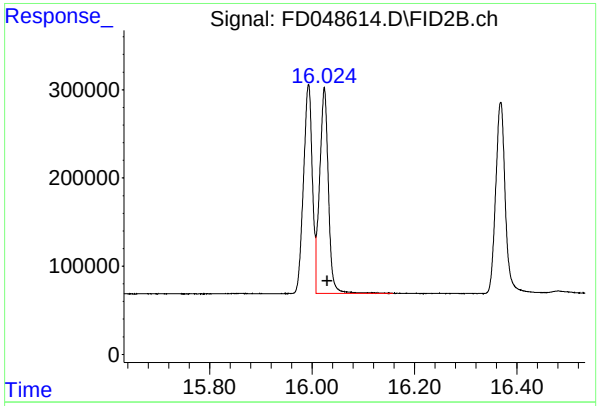
#15 Chrysene (C27.41)

R.T.: 14.487 min
Delta R.T.: -0.006 min
Response: 2954164
Conc: 17.96 ug/ml



#16 benzo[b]fluoranthene (C30.41)

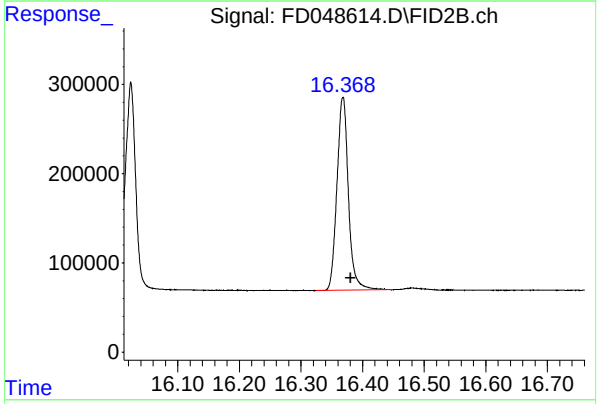
R.T.: 15.993 min
Delta R.T.: -0.005 min
Response: 2830811
Conc: 18.62 ug/ml



#17 Bnezo[k]fluoranthene (C30.14)

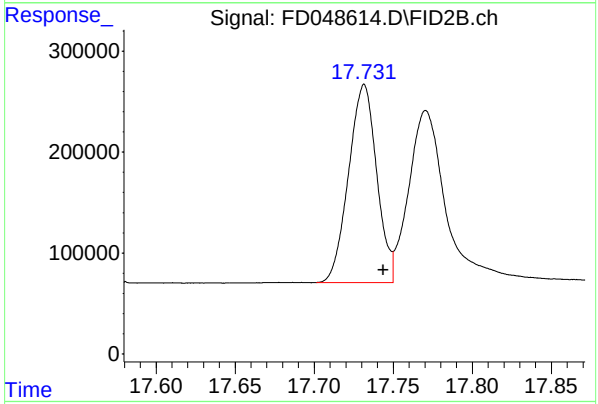
R.T.: 16.024 min
Delta R.T.: -0.006 min
Response: 2756243
Conc: 18.34 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD



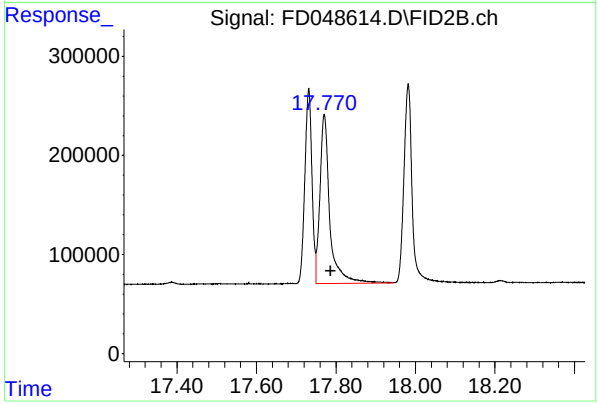
#18 Benzo[a]pyrene (C31.34)

R.T.: 16.368 min
Delta R.T.: -0.012 min
Response: 2798622
Conc: 18.60 ug/ml



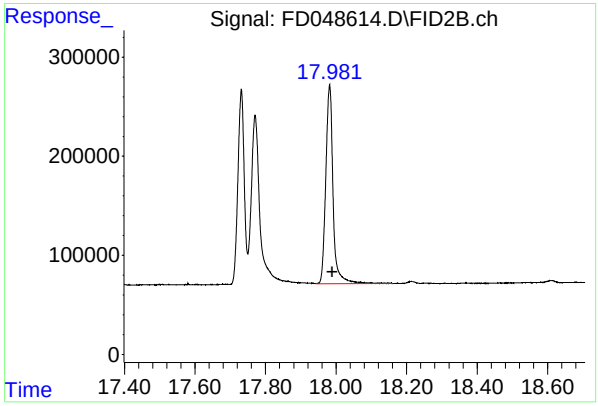
#19 Indeno[1,2,3-cd]pyrene (C35.01)

R.T.: 17.731 min
Delta R.T.: -0.012 min
Response: 2432714
Conc: 18.64 ug/ml



#20 Dibenz[a,h]anthracene (C30.36)

R.T.: 17.771 min
Delta R.T.: -0.016 min
Response: 2948384
Conc: 18.12 ug/ml



#21 Benzo[g,h,i]perylene (C34.01)

R.T.: 17.982 min
Delta R.T.: -0.008 mi
Response: 2873685
Conc: 18.77 ug/m

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD102824AR\
Data File : FD048614.D
Signal(s) : FID2B.ch
Acq On : 29 Oct 2024 08:54
Sample : 20 PPM AROMATIC HC STD
Misc :
ALS Vial : 52 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 102324.M
Title : GC Extractables

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.194	4.161	4.257	BV	369989	3220349	97.13%	5.276%
2	5.711	5.645	5.888	BB	346236	3315519	100.00%	5.432%
3	6.758	6.725	6.878	PV	326628	3293962	99.35%	5.396%
4	7.371	7.315	7.478	BB	284936	2783009	83.94%	4.559%
5	8.023	7.993	8.128	PV	325125	3202755	96.60%	5.247%
6	8.220	8.128	8.291	PV	171170	1811249	54.63%	2.967%
7	8.317	8.291	8.428	VB	329228	3231787	97.47%	5.294%
8	9.095	9.031	9.225	BB	288876	3087206	93.11%	5.058%
9	10.482	10.375	10.531	BV	281778	2989978	90.18%	4.898%
10	10.557	10.531	10.755	VB	244713	2851757	86.01%	4.672%
11	11.255	11.175	11.365	BV	291038	3076642	92.80%	5.040%
12	12.285	12.250	12.415	PV	255801	2975015	89.73%	4.874%
13	12.578	12.531	12.628	BV	265162	2918088	88.01%	4.780%
14	14.446	14.405	14.465	BV	240805	2689707	81.12%	4.406%
15	14.487	14.465	14.641	VB	231940	2954164	89.10%	4.840%
16	15.993	15.961	16.008	BV	240213	2830811	85.38%	4.638%
17	16.024	16.008	16.158	VB	233467	2756243	83.13%	4.515%
18	16.368	16.325	16.449	BV	216810	2798622	84.41%	4.585%
19	17.731	17.701	17.750	BV	196122	2432714	73.37%	3.985%
20	17.771	17.750	17.943	VV	170496	2948384	88.93%	4.830%
21	17.982	17.943	18.161	VB	200311	2873685	86.67%	4.708%
			Sum of corrected areas:			61041647		

Aromatic EPH 102324.M Wed Oct 30 03:17:45 2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD102824AR\
Data File : FD048614.D
Signal(s) : FID2B.ch
Acq On : 29 Oct 2024 08:54
Operator : YP/AJ
Sample : 20 PPM AROMATIC HC STD
Misc :
ALS Vial : 52 Sample Multiplier: 1

Instrument :
FID_D
LabSampleId :
20 PPM AROMATIC HC STD

Integration File: autoint1.e
Quant Time: Oct 30 02:39:10 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 18:14:59 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF		%Dev	Area%	Dev(Min)
1	T	1,2,3-Trimethylbenzene (C10	173.971	161.017	E3	7.4	93	0.00
2	T	Naphthalene (C11.7)	178.434	165.776	E3	7.1	92	0.00
3	T	2-Methylnaphthalene (C12.89	178.865	164.698	E3	7.9	92	0.00
4	S	2-Bromonaphthalene (SURR)	151.779	139.150	E3	8.3	91	0.00
5	T	Acenaphthylene (C15.06)	175.592	160.138	E3	8.8	91	0.00
6	S	2-Flurobiphenyl (SURR)	98.192	90.562	E3	7.8	91	0.00
7	T	Acenaphthene (C15.5)	177.363	161.589	E3	8.9	91	0.00
8	T	Flouorene (C16.55)	169.037	154.360	E3	8.7	91	0.00
9	T	Phenanthrene (C19.36)	165.306	149.499	E3	9.6	90	0.00
10	T	Anthracene (C19.43)	159.910	142.588	E3	10.8	89	0.00
11	S	ortho-Terphenyl (SURR)	170.340	153.832	E3	9.7	91	0.00
12	T	Fluoranthene (C21.85)	164.577	148.751	E3	9.6	90	0.00
13	T	Pyrene (C20.8)	161.077	145.904	E3	9.4	90	0.00
14	T	Benzo[a]anthracene (C26.37)	146.215	134.485	E3	8.0	90	0.00
15	T	Chrysene (C27.41)	164.492	147.708	E3	10.2	91	0.00
16	T	benzo[b]fluoranthene (C30.4	152.029	141.541	E3	6.9	92	0.00
17	T	Bnezo[k]fluoranthene (C30.1	150.304	137.812	E3	8.3	91	0.00
18	T	Benzo[a]pyrene (C31.34)	150.496	139.931	E3	7.0	92	-0.01
19	T	Indeno[1,2,3-cd]pyrene (C35	130.478	121.636	E3	6.8	92	-0.01
20	T	Dibenz[a,h]anthracene (C30.	162.735	147.419	E3	9.4	90	-0.02
21	T	Benzo[g,h,i]perylene (C34.0	153.092	143.684	E3	6.1	93	0.00

Evaluate Continuing Calibration Report - Not Founds

(#) = Out of Range SPCC's out = 0 CCC's out = 0

QC SAMPLE DATA

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

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	
Project:	NJ Soil PT	Date Received:	
Client Sample ID:	PB164396BL	SDG No.:	P4495
Lab Sample ID:	PB164396BL	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	100
Sample Wt/Vol:	30.01 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
10/25/24 09:05	10/28/24 14:32	PB164396

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	0.38	U	1	0.38	1.00	mg/kg	FC067542.D
Aliphatic C12-C16	Aliphatic C12-C16	0.24	U	1	0.24	0.67	mg/kg	FC067542.D
Aliphatic C16-C21	Aliphatic C16-C21	0.30	U	1	0.30	1.00	mg/kg	FC067542.D
Aliphatic C21-C28	Aliphatic C21-C28	0.80	U	1	0.80	1.33	mg/kg	FC067542.D
Aliphatic C28-C40	Aliphatic C28-C40	1.80	U	1	1.80	2.00	mg/kg	FC067542.D
Aromatic C10-C12	Aromatic C10-C12	0.30	U	1	0.30	0.67	mg/kg	FD048603.D
Aromatic C12-C16	Aromatic C12-C16	0.34	U	1	0.34	1.00	mg/kg	FD048603.D
Aromatic C16-C21	Aromatic C16-C21	0.96	U	1	0.96	1.67	mg/kg	FD048603.D
Aromatic C21-C36	Aromatic C21-C36	2.00	U	1	2.00	2.67	mg/kg	FD048603.D
Total AliphaticEPH	Total AliphaticEPH	3.52	U		3.52	6.00	mg/kg	
Total AromaticEPH	Total AromaticEPH	3.60	U		3.60	6.01	mg/kg	
Total EPH	Total EPH	7.12	U		7.12	12.0	mg/kg	

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

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

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

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	
Project:	NJ Soil PT	Date Received:	
Client Sample ID:	PB164396BL	SDG No.:	P4495
Lab Sample ID:	PB164396BL	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	100
Sample Wt/Vol:	30.01 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FC067542.D	1	10/25/24	10/28/24	PB164396

CAS Number	Parameter		Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
Aliphatic C9-C12	Aliphatic C9-C12		0.38	U	0.38	1.00	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16		0.24	U	0.24	0.67	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21		0.30	U	0.30	1.00	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28		0.80	U	0.80	1.33	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40		1.80	U	1.80	2.00	mg/kg
SURROGATES							
3383-33-2	1-chlorooctadecane (SURR)		39.0		40 - 140	78%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)		0.00		40 - 140	0%	SPK: 50

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

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	PB164396BL	Acq On:	28 Oct 2024 14:32
Client Sample ID:	PB164396BL	Operator:	YP/AJ
Data file:	FC067542.D	Misc:	
Instrument:	FID_C	ALS Vial:	18
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.173	6.453	0	0	300	ug/ml
Aliphatic C12-C16	6.454	9.842	0	0	200	ug/ml
Aliphatic C16-C21	9.843	13.200	0	0	300	ug/ml
Aliphatic C21-C28	13.201	16.853	0	0	400	ug/ml
Aliphatic C28-C40	16.854	21.695	0	0	600	ug/ml
Aliphatic EPH	3.173	21.695	0	0		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	12.932	12.932	4211764	39		ug/ml
Aliphatic C9-C28	3.173	16.853	0	0	1200	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC102824AL\
Data File : FC067542.D
Signal(s) : FID1A.ch
Acq On : 28 Oct 2024 14:32
Operator : YP/AJ
Sample : PB164396BL
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
PB164396BL

Integration File: sample.E
Quant Time: Oct 29 00:05:40 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 18:12:58 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			
12) S 1-chlorooctadecane (S...	12.932	4211764	39.002 ug/ml
Spiked Amount 50.000		Recovery = 78.00%	
Target Compounds			

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

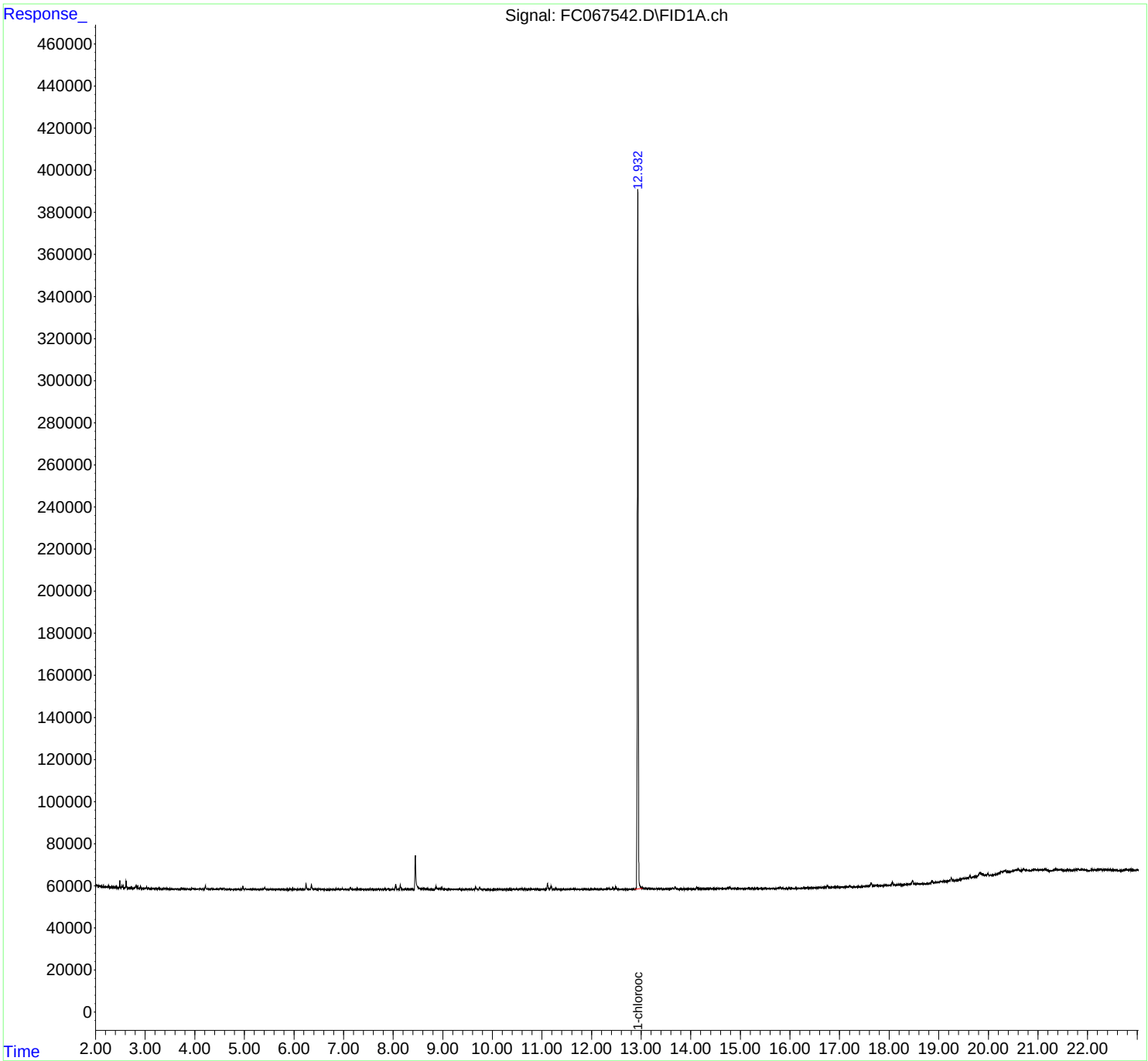
Quantitation Report (QT Reviewed)

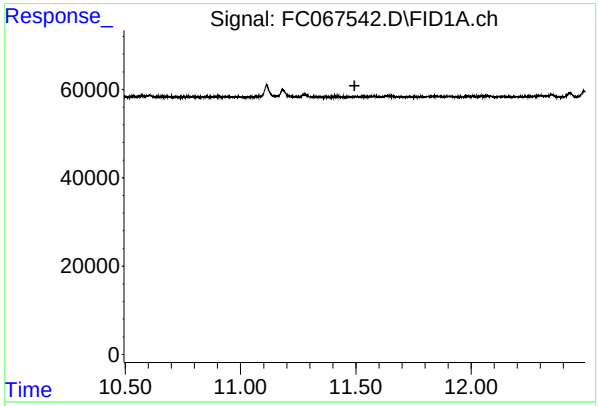
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC102824AL\
Data File : FC067542.D
Signal(s) : FID1A.ch
Acq On : 28 Oct 2024 14:32
Operator : YP/AJ
Sample : PB164396BL
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
PB164396BL

Integration File: sample.E
Quant Time: Oct 29 00:05:40 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 18:12:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

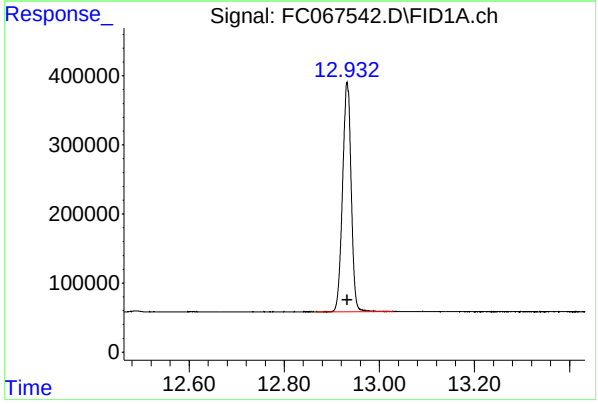




#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.494 min
Response: 0
Conc: N.D.

Instrument :
FID_C
ClientSampleId :
PB164396BL



#12 1-chlorooctadecane (SURR)

R.T.: 12.932 min
Delta R.T.: 0.000 min
Response: 4211764
Conc: 39.00 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC102824AL\
Data File : FC067542.D
Signal(s) : FID1A.ch
Acq On : 28 Oct 2024 14:32
Sample : PB164396BL
Misc :
ALS Vial : 18 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 102324.M
Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	12.932	12.867	13.029	BB	331608	4211764	100.00%	100.000%

Sum of corrected areas: 4211764

Aliphatic EPH 102324.M Tue Oct 29 05:00:47 2024

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

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	
Project:	NJ Soil PT	Date Received:	
Client Sample ID:	PB164396BL	SDG No.:	P4495
Lab Sample ID:	PB164396BL	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	100
Sample Wt/Vol:	30.01 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FD048603.D	1	10/25/24	10/28/24	PB164396

CAS Number	Parameter		Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
Aromatic C10-C12	Aromatic C10-C12		0.30	U	0.30	0.67	mg/kg
Aromatic C12-C16	Aromatic C12-C16		0.34	U	0.34	1.00	mg/kg
Aromatic C16-C21	Aromatic C16-C21		0.96	U	0.96	1.67	mg/kg
Aromatic C21-C36	Aromatic C21-C36		2.00	U	2.00	2.67	mg/kg
SURROGATES							
580-13-2	2-Bromonaphthalene (SURR)		52.0		40 - 140	104%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)		50.4		40 - 140	101%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)		44.9		40 - 140	90%	SPK: 50

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Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	PB164396BL	Acq On:	28 Oct 2024 13:55
Client Sample ID:	PB164396BL	Operator:	YP/AJ
Data file:	FD048603.D	Misc:	
Instrument:	FID_D	ALS Vial:	66
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.094	5.812	0	0	200	ug/ml
Aromatic C12-C16	5.813	8.417	0	0	300	ug/ml
Aromatic C16-C21	8.418	12.677	0	0	500	ug/ml
Aromatic C21-C36	12.678	18.081	0	0	800	ug/ml
Aromatic EPH	4.094	18.081	0	0		ug/ml
ortho-Terphenyl (SURR)	11.258	11.258	7644072	44.88		ug/ml
2-Bromonaphthalene (SURR)	7.373	7.373	7892901	52		ug/ml
2-Flurobiphenyl (SURR)	8.221	8.221	4953164	50.44		ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD102824AR\
Data File : FD048603.D
Signal(s) : FID2B.ch
Acq On : 28 Oct 2024 13:55
Operator : YP/AJ
Sample : PB164396BL
Misc :
ALS Vial : 66 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
PB164396BL

Integration File: autoint1.e
Quant Time: Oct 29 00:22:32 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 18:14:59 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) S 2-Bromonaphthalene (S...	7.373	7892901	52.003 ug/ml
Spiked Amount 50.000		Recovery = 104.01%	
6) S 2-Flurobiphenyl (SURR)	8.221	4953164	50.444 ug/ml
Spiked Amount 50.000 Range 0 - 131		Recovery = 100.89%	
11) S ortho-Terphenyl (SURR)	11.258	7644072	44.875 ug/ml
Spiked Amount 50.000		Recovery = 89.75%	
Target Compounds			

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

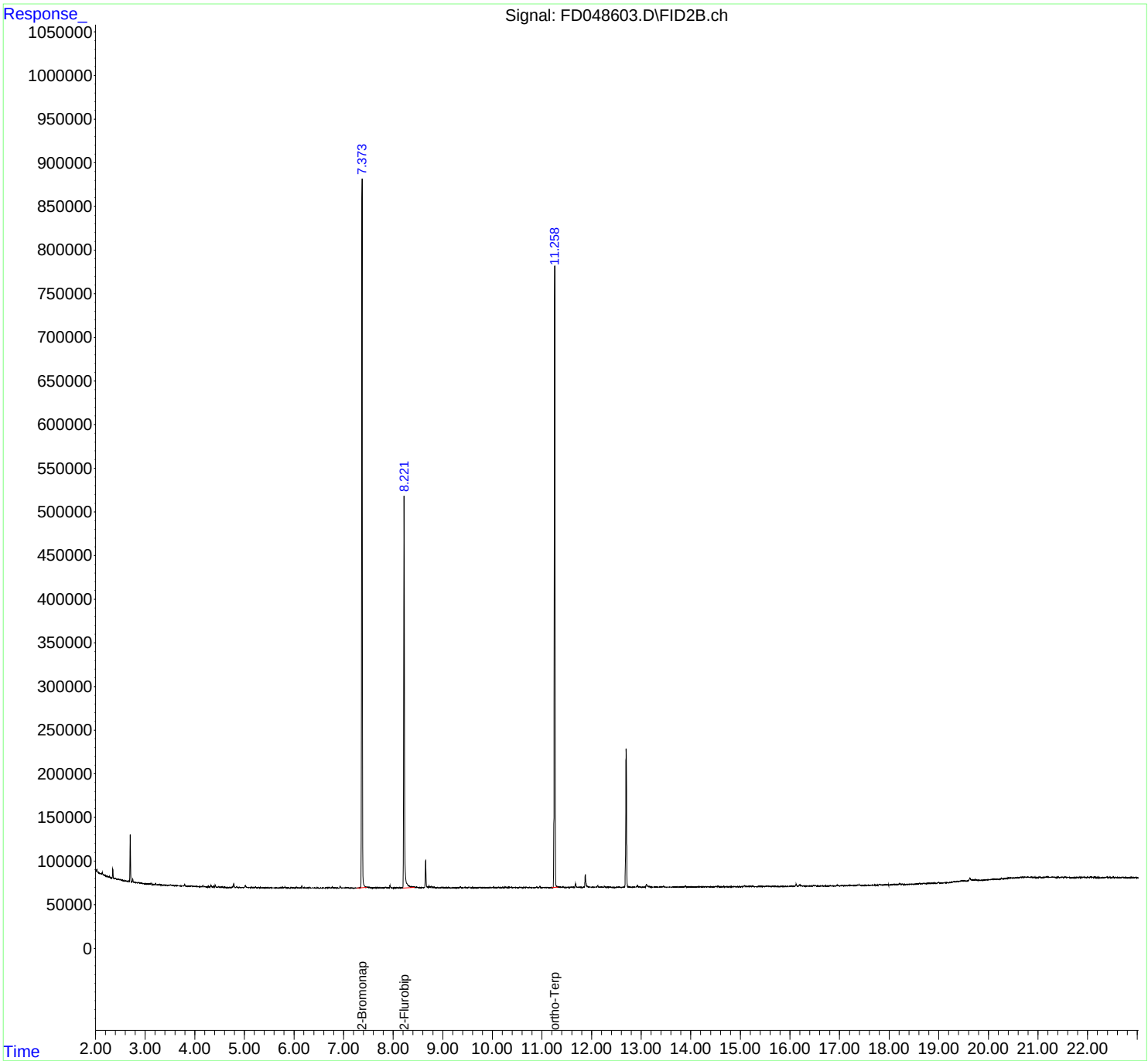
Quantitation Report (QT Reviewed)

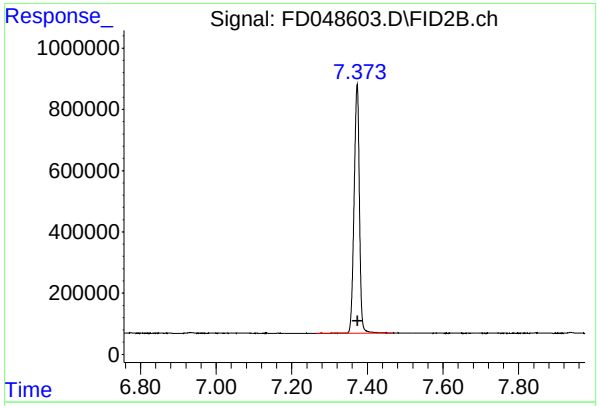
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD102824AR\
Data File : FD048603.D
Signal(s) : FID2B.ch
Acq On : 28 Oct 2024 13:55
Operator : YP/AJ
Sample : PB164396BL
Misc :
ALS Vial : 66 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
PB164396BL

Integration File: autoint1.e
Quant Time: Oct 29 00:22:32 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 18:14:59 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

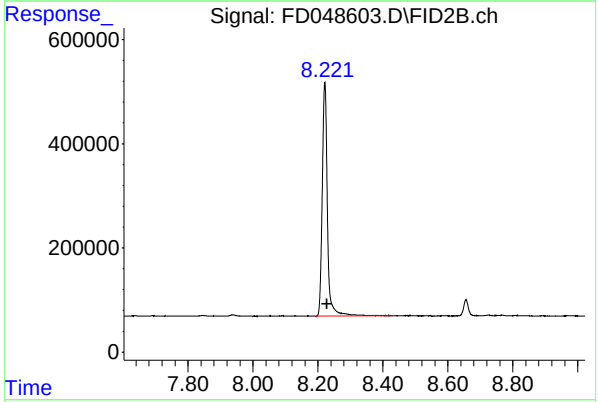




#4 2-Bromonaphthalene (SURR)

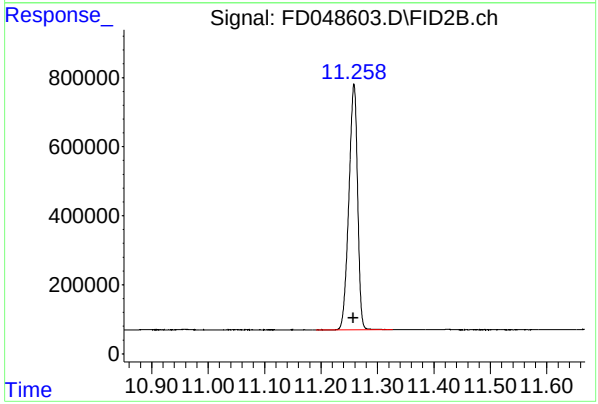
R.T.: 7.373 min
Delta R.T.: -0.002 min
Response: 7892901
Conc: 52.00 ug/ml

Instrument :
FID_D
ClientSampleId :
PB164396BL



#6 2-Flurobiphenyl (SURR)

R.T.: 8.221 min
Delta R.T.: -0.007 min
Response: 4953164
Conc: 50.44 ug/ml



#11 ortho-Terphenyl (SURR)

R.T.: 11.258 min
Delta R.T.: 0.001 min
Response: 7644072
Conc: 44.88 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD102824AR\
Data File : FD048603.D
Signal(s) : FID2B.ch
Acq On : 28 Oct 2024 13:55
Sample : PB164396BL
Misc :
ALS Vial : 66 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 102324.M
Title : GC Extractables

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	7.373	7.264	7.468	BB	801107	7892901	100.00%	38.520%
2	8.221	8.194	8.431	PV	449387	4953164	62.75%	24.173%
3	11.258	11.191	11.327	BV	709606	7644072	96.85%	37.306%

Sum of corrected areas: 20490136

Aromatic EPH 102324.M Tue Oct 29 05:17:51 2024

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

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	I.BLK	Acq On:	23 Oct 2024 14:35
Client Sample ID:	I.BLK	Operator:	YP/AJ
Data file:	FC067505.D	Misc:	
Instrument:	FID_C	ALS Vial:	1
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.174	6.454	0	0	300	ug/ml
Aliphatic C12-C16	6.455	9.845	0	0	200	ug/ml
Aliphatic C16-C21	9.846	13.203	0	0	300	ug/ml
Aliphatic C21-C28	13.204	16.858	0	0	400	ug/ml
Aliphatic C28-C40	16.859	21.704	0	0	600	ug/ml
Aliphatic EPH	3.174	21.704	0	0		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	0.000	0.000	0	0		ug/ml
Aliphatic C9-C28	3.174	16.858	0	0	1200	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC102324AL\
Data File : FC067505.D
Signal(s) : FID1A.ch
Acq On : 23 Oct 2024 14:35
Operator : YP/AJ
Sample : I.BLK
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
I.BLK

Integration File: autoint1.e
Quant Time: Oct 23 18:22:30 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 18:12:58 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

Target Compounds

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

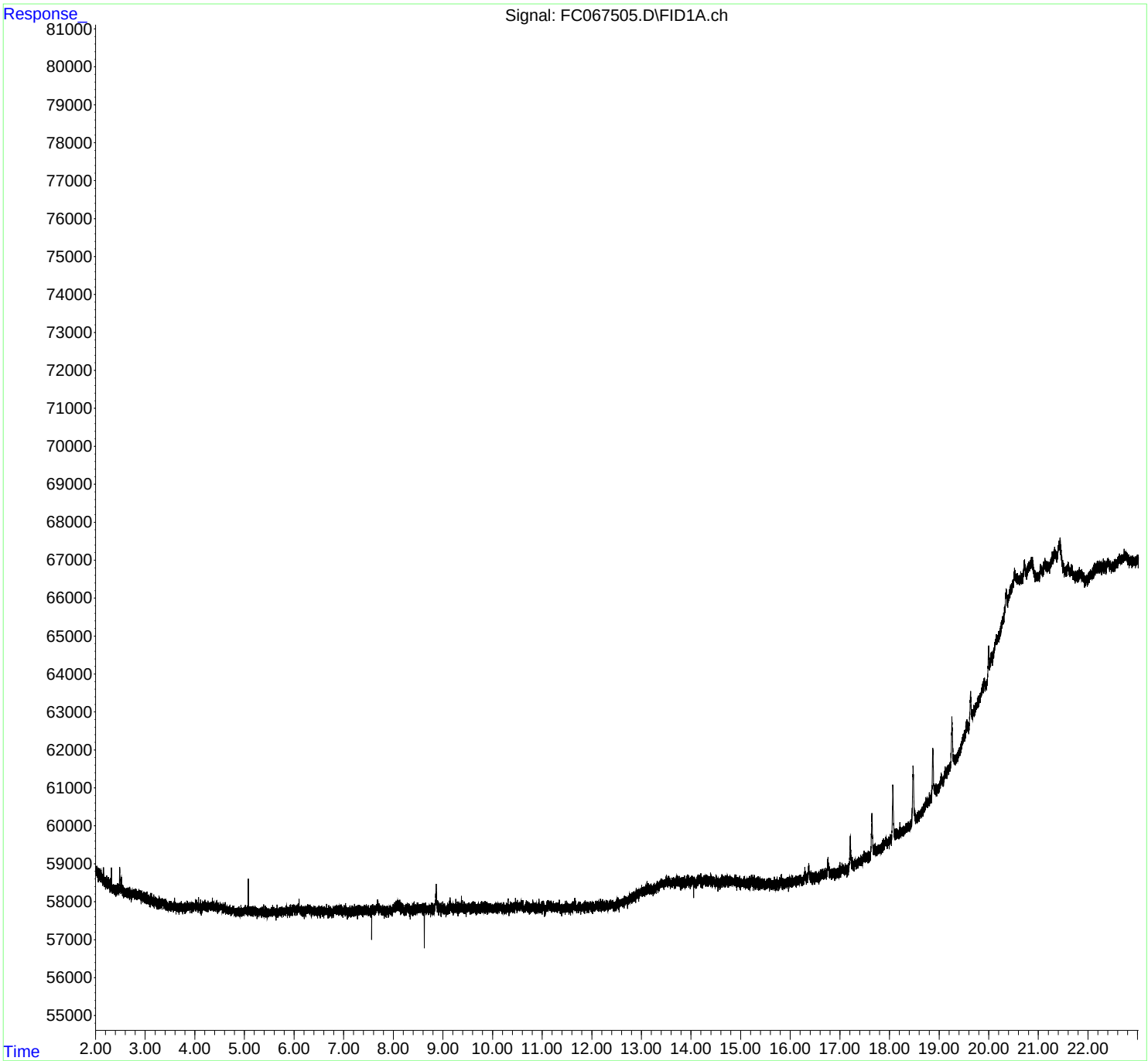
Quantitation Report (QT Reviewed)

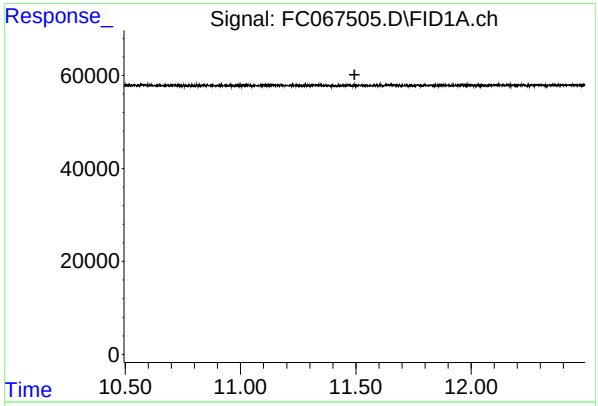
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC102324AL\
Data File : FC067505.D
Signal(s) : FID1A.ch
Acq On : 23 Oct 2024 14:35
Operator : YP/AJ
Sample : I.BLK
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
I.BLK

Integration File: autoint1.e
Quant Time: Oct 23 18:22:30 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 18:12:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

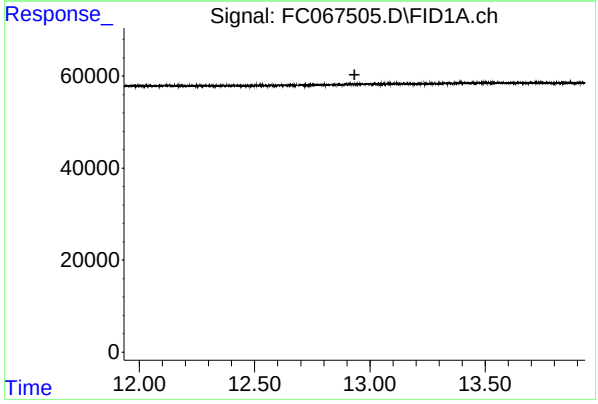




#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.494 min
Response: 0
Conc: N.D.

Instrument :
FID_C
ClientSampleId :
I.BLK



#12 1-chlorooctadecane (SURR)

R.T.: 0.000 min
Exp R.T. : 12.933 min
Response: 0
Conc: N.D.

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC102324AL\
Data File : FC067505.D
Signal(s) : FID1A.ch
Acq On : 23 Oct 2024 14:35
Sample : I.BLK
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 102324.M
Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total

No peaks were detected!

Aliphatic EPH 102324.M Wed Oct 23 18:23:12 2024

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

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	I.BLK	Acq On:	28 Oct 2024 08:40
Client Sample ID:	I.BLK	Operator:	YP/AJ
Data file:	FC067533.D	Misc:	
Instrument:	FID_C	ALS Vial:	1
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.173	6.453	0	0	300	ug/ml
Aliphatic C12-C16	6.454	9.842	0	0	200	ug/ml
Aliphatic C16-C21	9.843	13.200	0	0	300	ug/ml
Aliphatic C21-C28	13.201	16.853	0	0	400	ug/ml
Aliphatic C28-C40	16.854	21.695	0	0	600	ug/ml
Aliphatic EPH	3.173	21.695	0	0		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	0.000	0.000	0	0		ug/ml
Aliphatic C9-C28	3.173	16.853	0	0	1200	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC102824AL\
Data File : FC067533.D
Signal(s) : FID1A.ch
Acq On : 28 Oct 2024 08:40
Operator : YP/AJ
Sample : I.BLK
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
I.BLK

Integration File: sample.E
Quant Time: Oct 29 00:04:15 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 18:12:58 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

Target Compounds

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

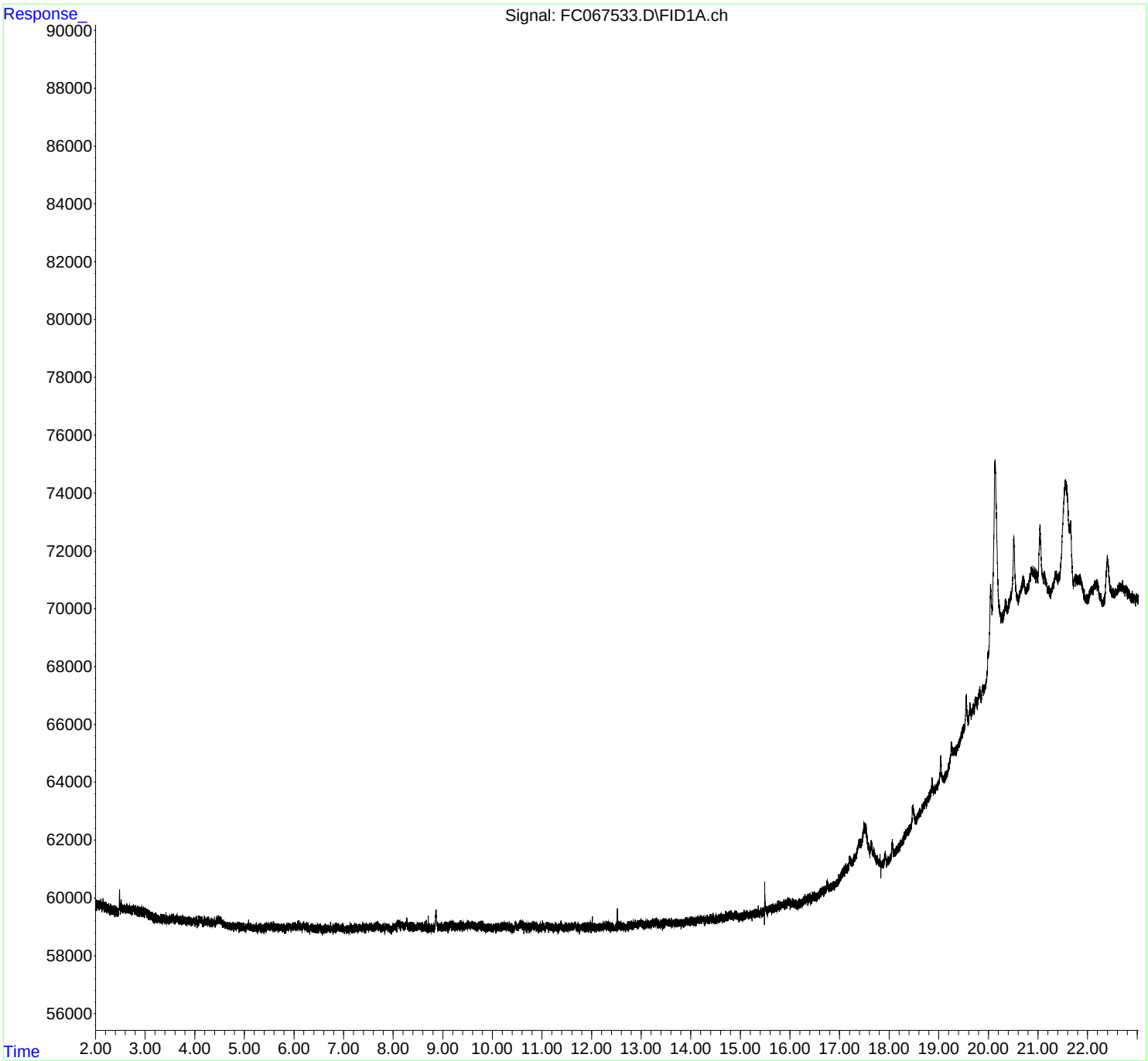
Quantitation Report (QT Reviewed)

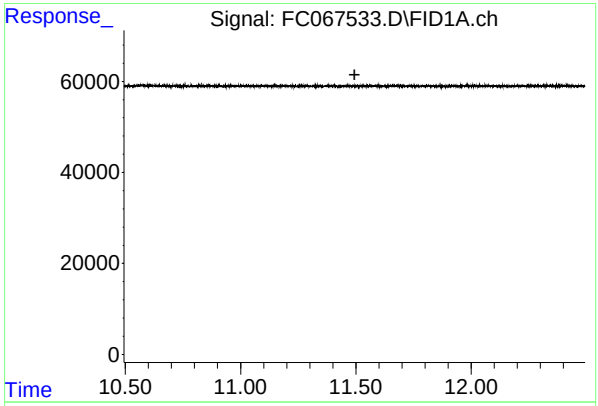
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC102824AL\
Data File : FC067533.D
Signal(s) : FID1A.ch
Acq On : 28 Oct 2024 08:40
Operator : YP/AJ
Sample : I.BLK
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
I.BLK

Integration File: sample.E
Quant Time: Oct 29 00:04:15 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 18:12:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

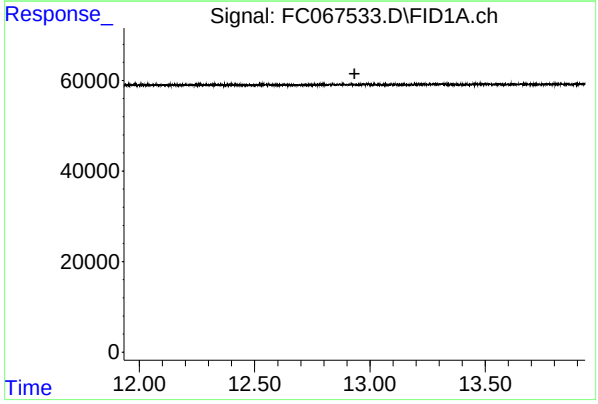




#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.494 min
Response: 0
Conc: N.D.

Instrument :
FID_C
ClientSampleId :
I.BLK



#12 1-chlorooctadecane (SURR)

R.T.: 0.000 min
Exp R.T. : 12.933 min
Response: 0
Conc: N.D.

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC102824AL\
Data File : FC067533.D
Signal(s) : FID1A.ch
Acq On : 28 Oct 2024 08:40
Sample : I.BLK
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 102324.M
Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total

No peaks were detected!

Aliphatic EPH 102324.M Tue Oct 29 04:58:38 2024

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

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	I.BLK	Acq On:	28 Oct 2024 13:17
Client Sample ID:	I.BLK	Operator:	YP/AJ
Data file:	FC067540.D	Misc:	
Instrument:	FID_C	ALS Vial:	1
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.173	6.453	0	0	300	ug/ml
Aliphatic C12-C16	6.454	9.842	0	0	200	ug/ml
Aliphatic C16-C21	9.843	13.200	0	0	300	ug/ml
Aliphatic C21-C28	13.201	16.853	0	0	400	ug/ml
Aliphatic C28-C40	16.854	21.695	0	0	600	ug/ml
Aliphatic EPH	3.173	21.695	0	0		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	0.000	0.000	0	0		ug/ml
Aliphatic C9-C28	3.173	16.853	0	0	1200	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC102824AL\
Data File : FC067540.D
Signal(s) : FID1A.ch
Acq On : 28 Oct 2024 13:17
Operator : YP/AJ
Sample : I.BLK
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
I.BLK

Integration File: sample.E
Quant Time: Oct 29 00:05:21 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 18:12:58 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

Target Compounds

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

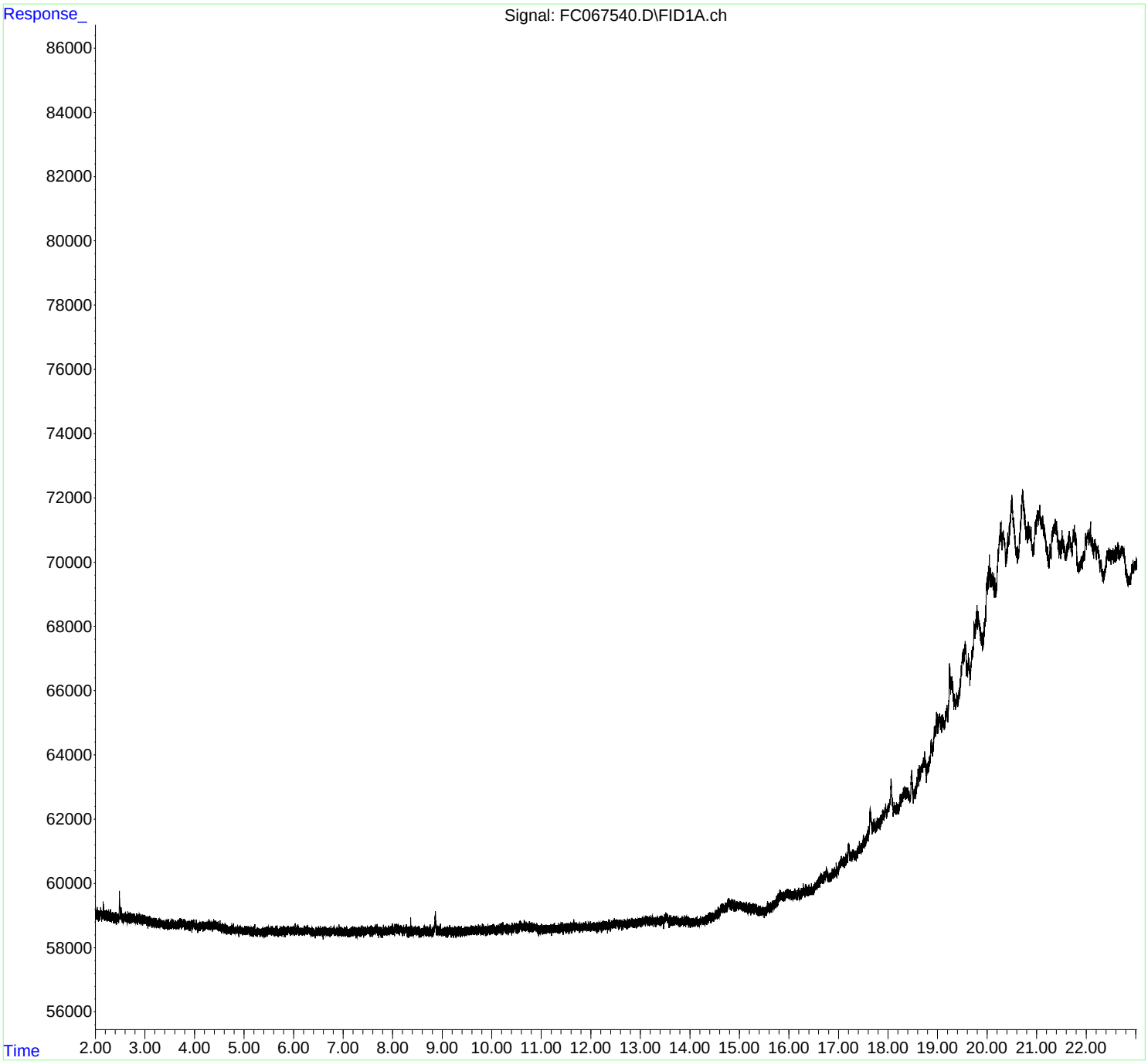
Quantitation Report (QT Reviewed)

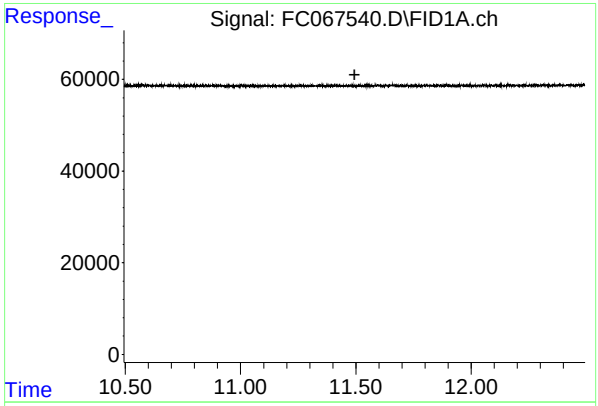
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC102824AL\
Data File : FC067540.D
Signal(s) : FID1A.ch
Acq On : 28 Oct 2024 13:17
Operator : YP/AJ
Sample : I.BLK
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
I.BLK

Integration File: sample.E
Quant Time: Oct 29 00:05:21 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 18:12:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

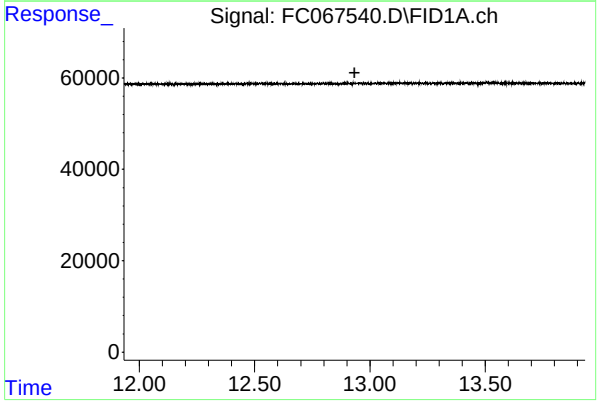




#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.494 min
Response: 0
Conc: N.D.

Instrument :
FID_C
ClientSampleId :
I.BLK



#12 1-chlorooctadecane (SURR)

R.T.: 0.000 min
Exp R.T. : 12.933 min
Response: 0
Conc: N.D.

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC102824AL\
Data File : FC067540.D
Signal(s) : FID1A.ch
Acq On : 28 Oct 2024 13:17
Sample : I.BLK
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 102324.M
Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total

No peaks were detected!

Aliphatic EPH 102324.M Tue Oct 29 04:59:29 2024

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

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	I.BLK	Acq On:	29 Oct 2024 08:17
Client Sample ID:	I.BLK	Operator:	YP/AJ
Data file:	FC067551.D	Misc:	
Instrument:	FID_C	ALS Vial:	1
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.173	6.453	0	0	300	ug/ml
Aliphatic C12-C16	6.454	9.842	0	0	200	ug/ml
Aliphatic C16-C21	9.843	13.200	0	0	300	ug/ml
Aliphatic C21-C28	13.201	16.853	0	0	400	ug/ml
Aliphatic C28-C40	16.854	21.695	0	0	600	ug/ml
Aliphatic EPH	3.173	21.695	0	0		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	0.000	0.000	0	0		ug/ml
Aliphatic C9-C28	3.173	16.853	0	0	1200	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC102824AL\
Data File : FC067551.D
Signal(s) : FID1A.ch
Acq On : 29 Oct 2024 08:17
Operator : YP/AJ
Sample : I.BLK
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
I.BLK

Integration File: sample.E
Quant Time: Oct 30 03:45:21 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 18:12:58 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

Target Compounds

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

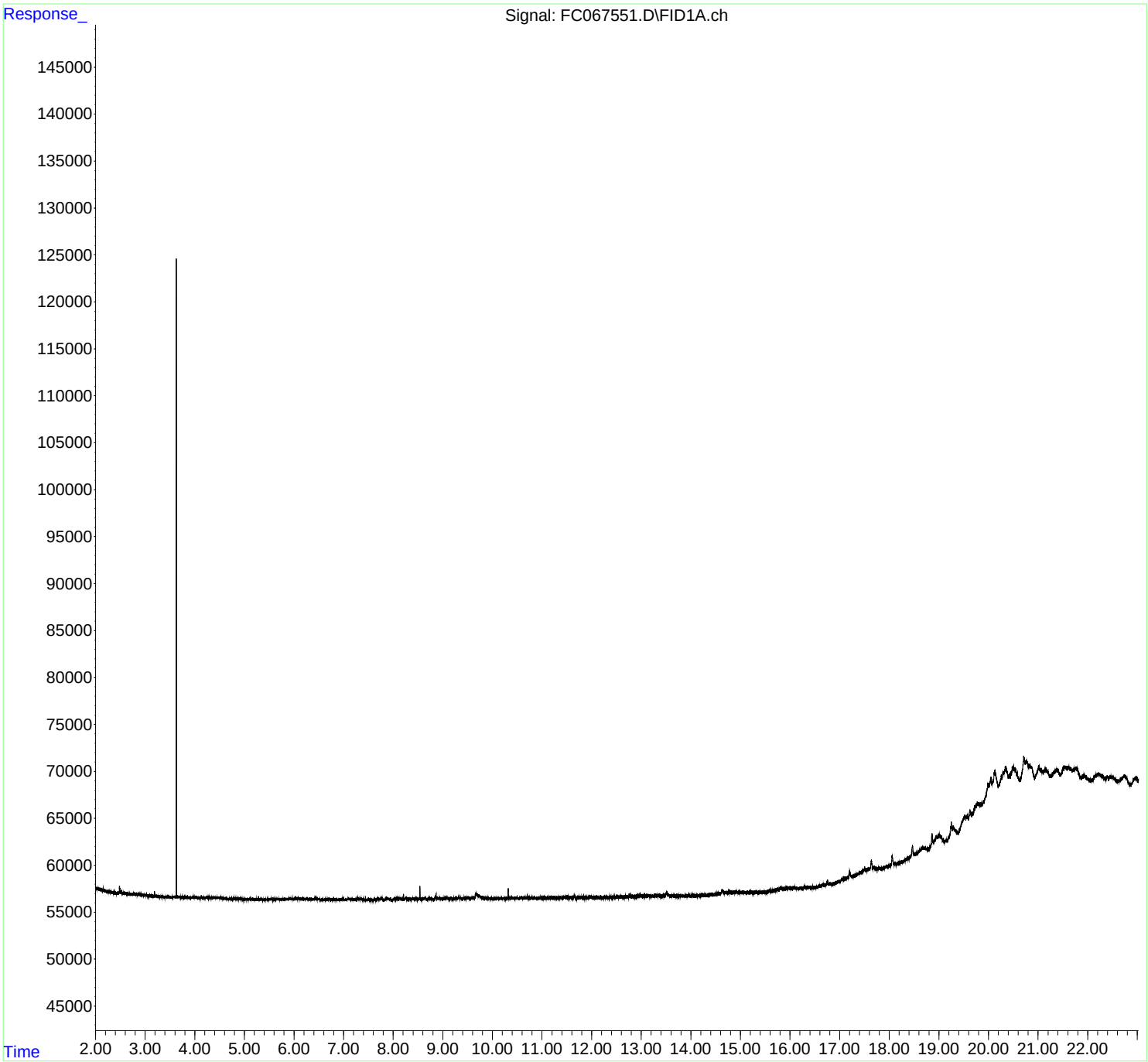
Quantitation Report (QT Reviewed)

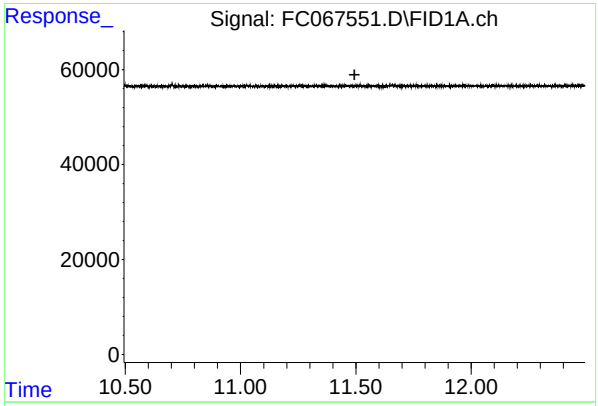
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC102824AL\
Data File : FC067551.D
Signal(s) : FID1A.ch
Acq On : 29 Oct 2024 08:17
Operator : YP/AJ
Sample : I.BLK
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
I.BLK

Integration File: sample.E
Quant Time: Oct 30 03:45:21 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 18:12:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

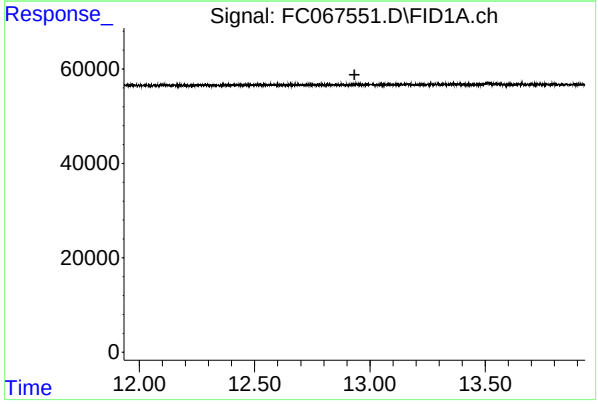




#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.494 min
Response: 0
Conc: N.D.

Instrument :
FID_C
ClientSampleId :
I.BLK



#12 1-chlorooctadecane (SURR)

R.T.: 0.000 min
Exp R.T. : 12.933 min
Response: 0
Conc: N.D.

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC102824AL\
Data File : FC067551.D
Signal(s) : FID1A.ch
Acq On : 29 Oct 2024 08:17
Sample : I.BLK
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 102324.M
Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total

No peaks were detected!

Aliphatic EPH 102324.M Wed Oct 30 04:06:26 2024

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

Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	I.BLK	Acq On:	23 Oct 2024 14:35
Client Sample ID:	I.BLK	Operator:	YP/AJ
Data file:	FD048567.D	Misc:	
Instrument:	FID_D	ALS Vial:	51
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.095	5.813	0	0	200	ug/ml
Aromatic C12-C16	5.814	8.419	0	0	300	ug/ml
Aromatic C16-C21	8.420	12.681	0	0	500	ug/ml
Aromatic C21-C36	12.682	18.087	0	0	800	ug/ml
Aromatic EPH	4.095	18.087	0	0		ug/ml
2-Bromonaphthalene (SURR)	0.000	0.000	0	0		ug/ml
2-Flurobiphenyl (SURR)	0.000	0.000	0	0		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD102324AR\
Data File : FD048567.D
Signal(s) : FID2B.ch
Acq On : 23 Oct 2024 14:35
Operator : YP/AJ
Sample : I.BLK
Misc :
ALS Vial : 51 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
I.BLK

Integration File: autoint1.e
Quant Time: Oct 23 18:15:43 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 18:14:59 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

Compound	R.T.	Response	Conc	Units

System Monitoring Compounds

Target Compounds

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

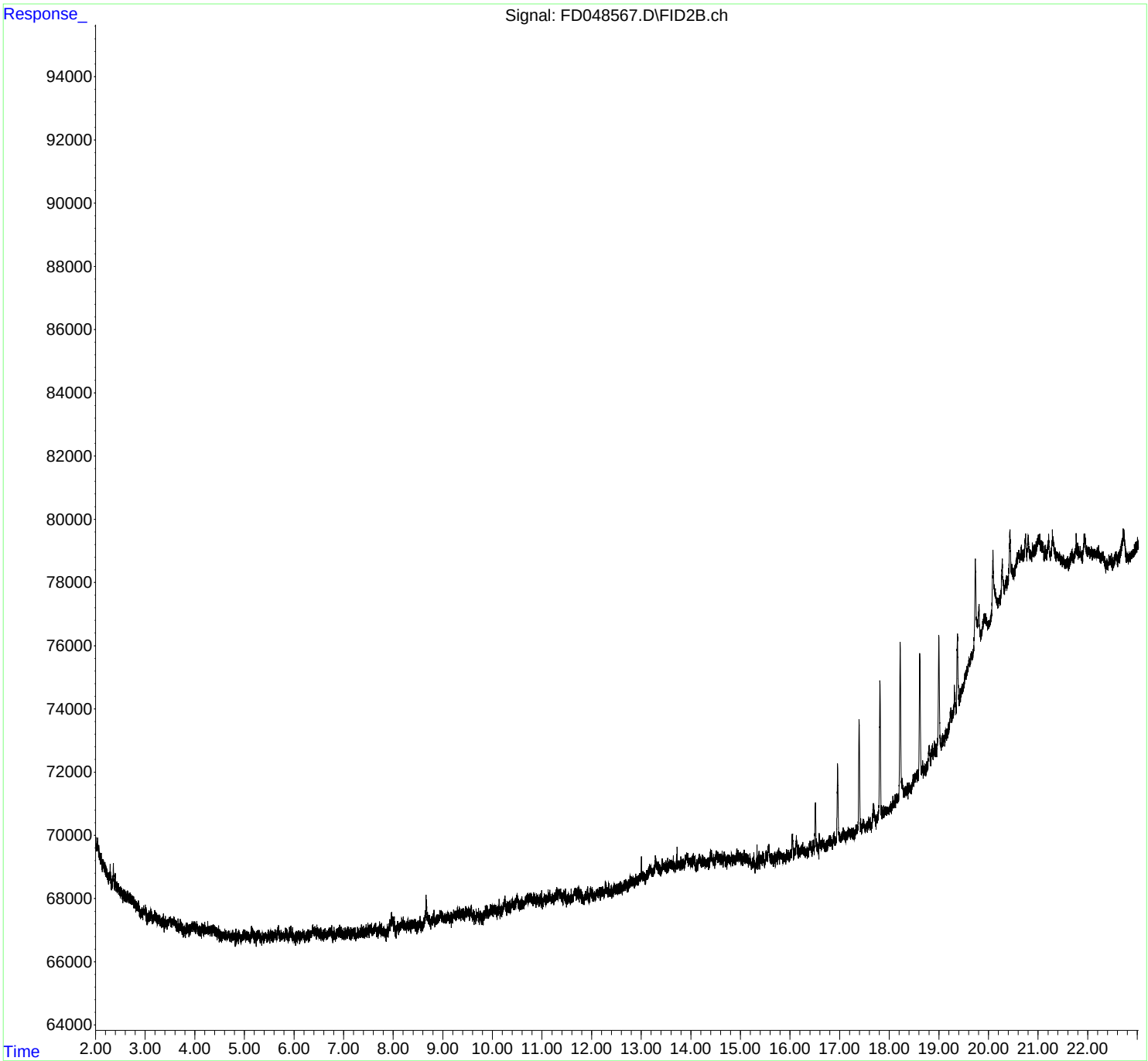
Quantitation Report (QT Reviewed)

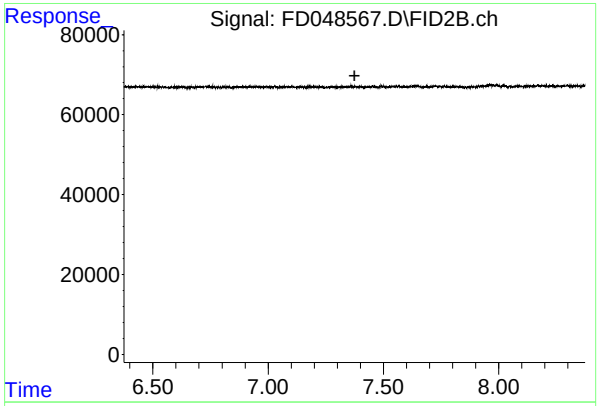
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD102324AR\
Data File : FD048567.D
Signal(s) : FID2B.ch
Acq On : 23 Oct 2024 14:35
Operator : YP/AJ
Sample : I.BLK
Misc :
ALS Vial : 51 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
I.BLK

Integration File: autoint1.e
Quant Time: Oct 23 18:15:43 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 18:14:59 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

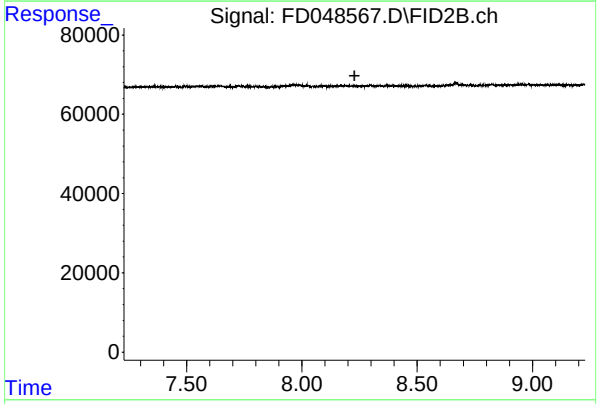




#4 2-Bromonaphthalene (SURR)

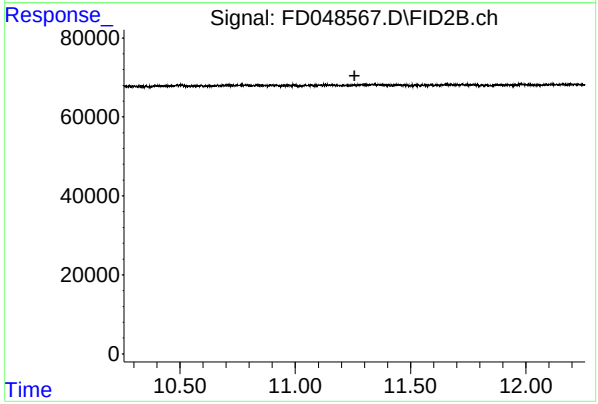
R.T.: 0.000 min
Exp R.T. : 7.375 min
Response: 0
Conc: N.D.

Instrument :
FID_D
ClientSampleId :
I.BLK



#6 2-Flurobiphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 8.228 min
Response: 0
Conc: N.D.



#11 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.257 min
Response: 0
Conc: N.D.

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD102324AR\
Data File : FD048567.D
Signal(s) : FID2B.ch
Acq On : 23 Oct 2024 14:35
Sample : I.BLK
Misc :
ALS Vial : 51 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 102324.M
Title : GC Extractables

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total

No peaks were detected!

Aromatic EPH 102324.M Wed Oct 23 18:19:41 2024

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

Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	I.BLK	Acq On:	28 Oct 2024 08:40
Client Sample ID:	I.BLK	Operator:	YP/AJ
Data file:	FD048596.D	Misc:	
Instrument:	FID_D	ALS Vial:	51
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.094	5.812	0	0	200	ug/ml
Aromatic C12-C16	5.813	8.417	0	0	300	ug/ml
Aromatic C16-C21	8.418	12.677	0	0	500	ug/ml
Aromatic C21-C36	12.678	18.081	0	0	800	ug/ml
Aromatic EPH	4.094	18.081	0	0		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
2-Bromonaphthalene (SURR)	0.000	0.000	0	0		ug/ml
2-Flurobiphenyl (SURR)	0.000	0.000	0	0		ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD102824AR\
Data File : FD048596.D
Signal(s) : FID2B.ch
Acq On : 28 Oct 2024 08:40
Operator : YP/AJ
Sample : I.BLK
Misc :
ALS Vial : 51 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
I.BLK

Integration File: autoint1.e
Quant Time: Oct 29 00:21:36 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 18:14:59 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

Compound	R.T.	Response	Conc	Units

System Monitoring Compounds

Target Compounds

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

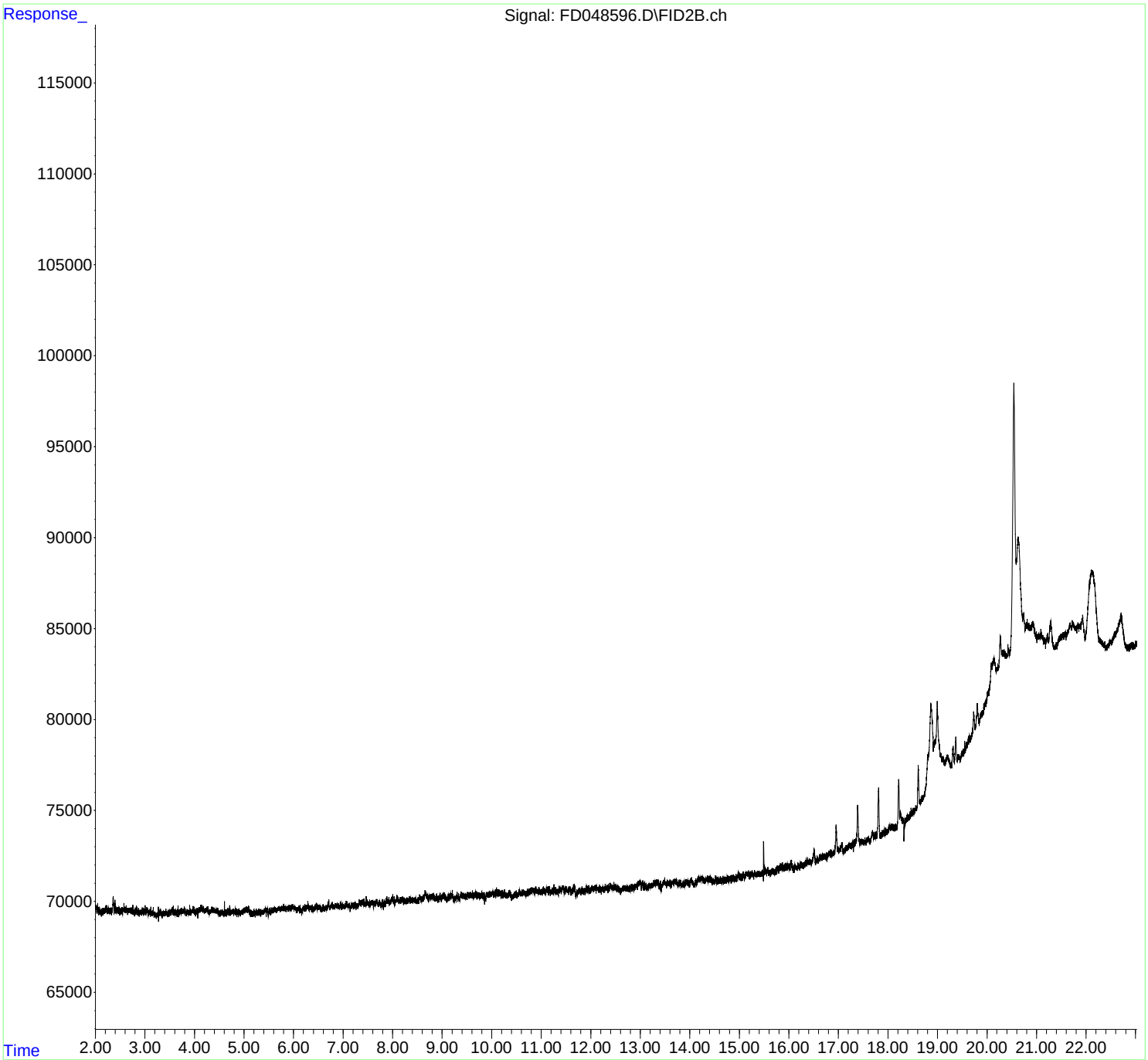
Quantitation Report (QT Reviewed)

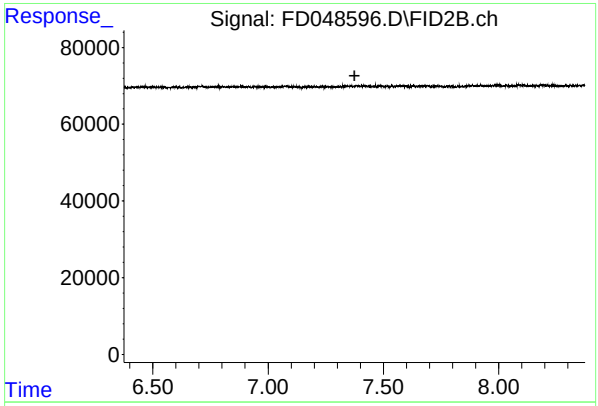
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD102824AR\
Data File : FD048596.D
Signal(s) : FID2B.ch
Acq On : 28 Oct 2024 08:40
Operator : YP/AJ
Sample : I.BLK
Misc :
ALS Vial : 51 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
I.BLK

Integration File: autoint1.e
Quant Time: Oct 29 00:21:36 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 18:14:59 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

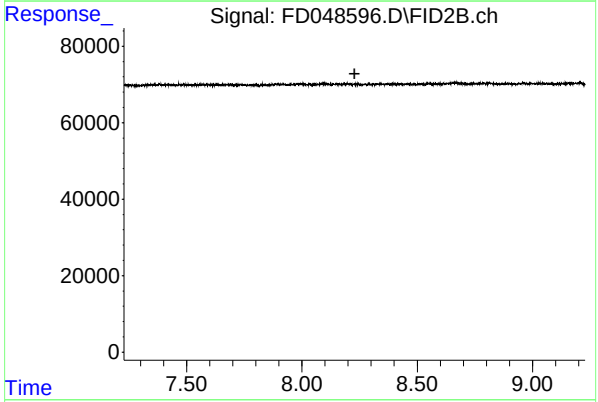




#4 2-Bromonaphthalene (SURR)

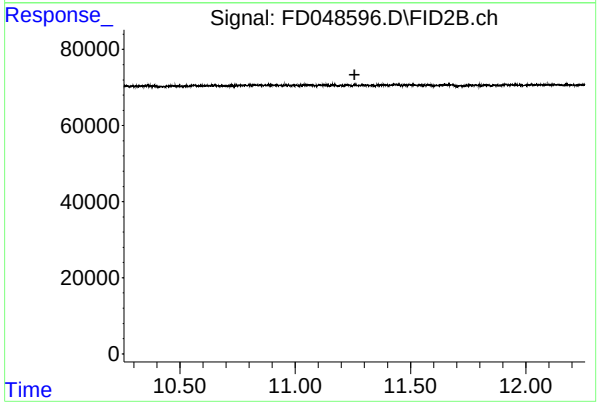
R.T.: 0.000 min
Exp R.T. : 7.375 min
Response: 0
Conc: N.D.

Instrument :
FID_D
ClientSampleId :
I.BLK



#6 2-Flurobiphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 8.228 min
Response: 0
Conc: N.D.



#11 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.257 min
Response: 0
Conc: N.D.

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD102824AR\
Data File : FD048596.D
Signal(s) : FID2B.ch
Acq On : 28 Oct 2024 08:40
Sample : I.BLK
Misc :
ALS Vial : 51 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 102324.M
Title : GC Extractables

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total

No peaks were detected!

Aromatic EPH 102324.M Tue Oct 29 05:16:51 2024

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

Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	I.BLK	Acq On:	28 Oct 2024 12:40
Client Sample ID:	I.BLK	Operator:	YP/AJ
Data file:	FD048601.D	Misc:	
Instrument:	FID_D	ALS Vial:	51
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.094	5.812	0	0	200	ug/ml
Aromatic C12-C16	5.813	8.417	0	0	300	ug/ml
Aromatic C16-C21	8.418	12.677	0	0	500	ug/ml
Aromatic C21-C36	12.678	18.081	0	0	800	ug/ml
Aromatic EPH	4.094	18.081	0	0		ug/ml
2-Bromonaphthalene (SURR)	0.000	0.000	0	0		ug/ml
2-Flurobiphenyl (SURR)	0.000	0.000	0	0		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD102824AR\
Data File : FD048601.D
Signal(s) : FID2B.ch
Acq On : 28 Oct 2024 12:40
Operator : YP/AJ
Sample : I.BLK
Misc :
ALS Vial : 51 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
I.BLK

Integration File: autoint1.e
Quant Time: Oct 29 00:22:15 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 18:14:59 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

Compound	R.T.	Response	Conc	Units

System Monitoring Compounds

Target Compounds

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

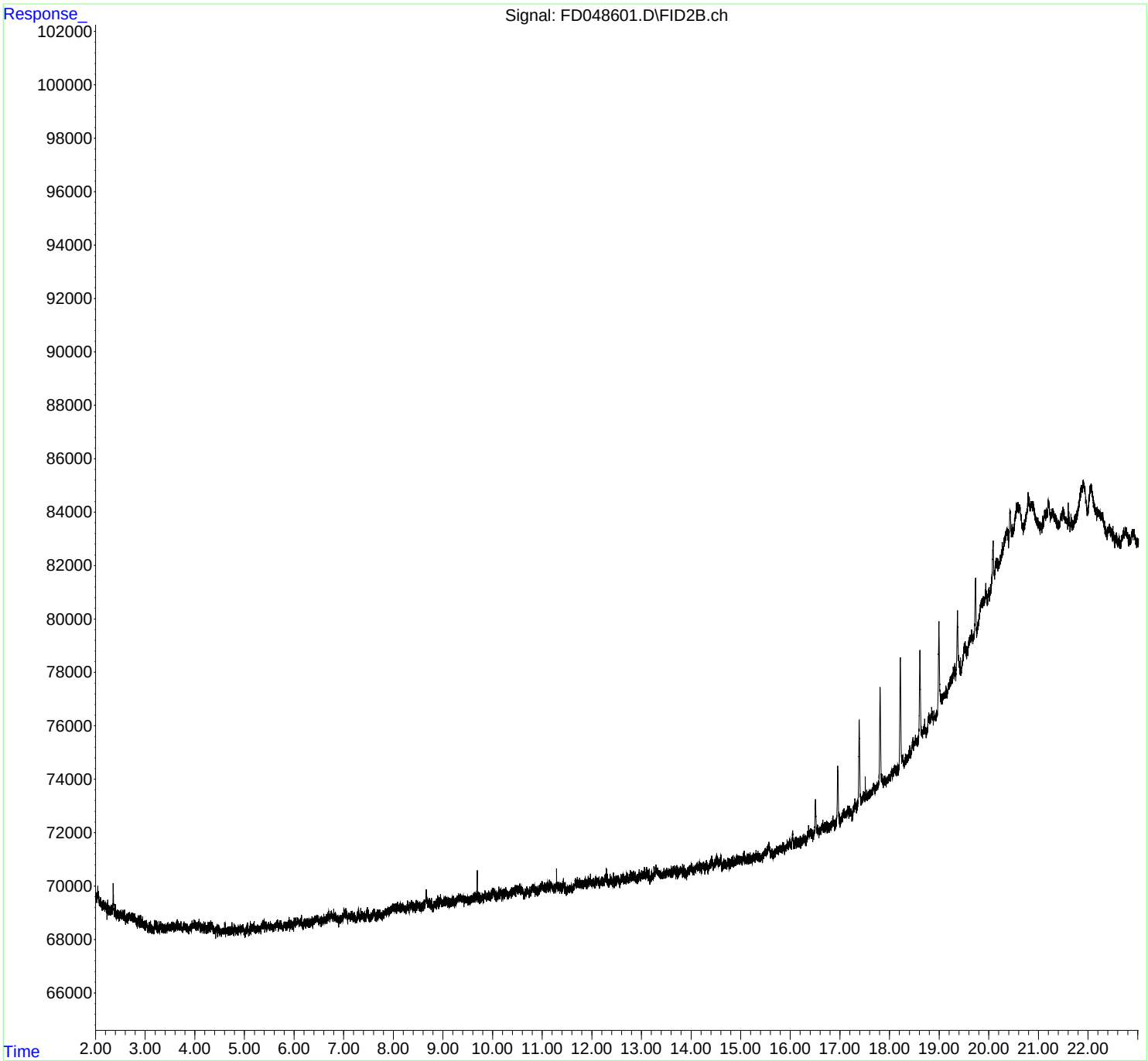
Quantitation Report (QT Reviewed)

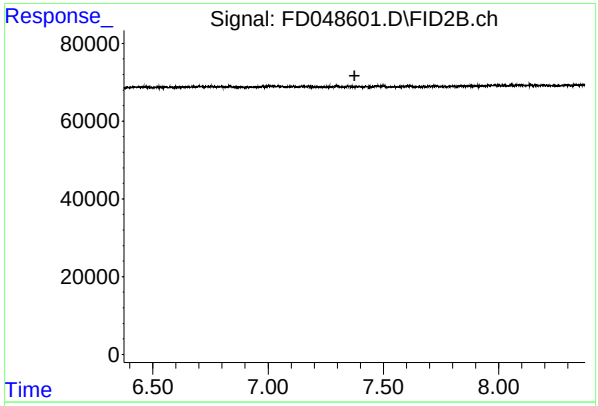
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD102824AR\
Data File : FD048601.D
Signal(s) : FID2B.ch
Acq On : 28 Oct 2024 12:40
Operator : YP/AJ
Sample : I.BLK
Misc :
ALS Vial : 51 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
I.BLK

Integration File: autoint1.e
Quant Time: Oct 29 00:22:15 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 18:14:59 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

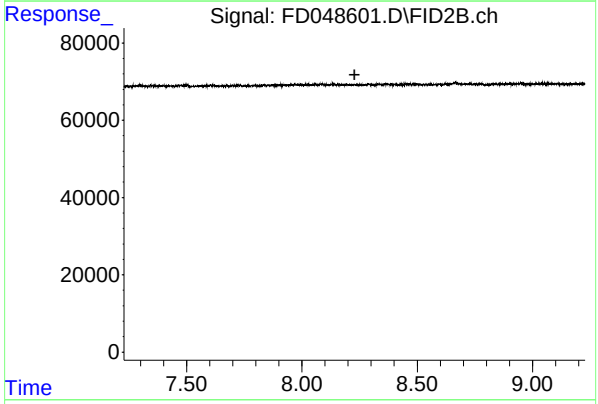




#4 2-Bromonaphthalene (SURR)

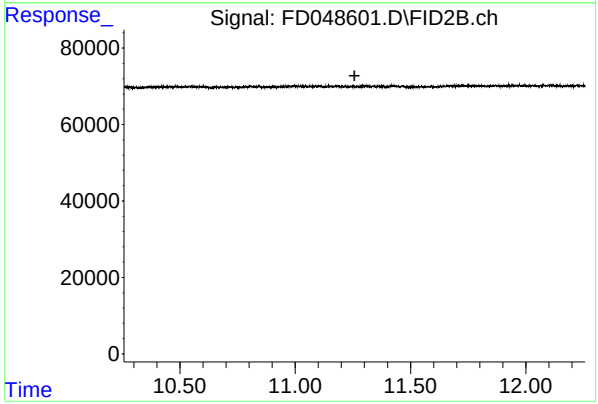
R.T.: 0.000 min
Exp R.T. : 7.375 min
Response: 0
Conc: N.D.

Instrument :
FID_D
ClientSampleId :
I.BLK



#6 2-Flurobiphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 8.228 min
Response: 0
Conc: N.D.



#11 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.257 min
Response: 0
Conc: N.D.

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD102824AR\
Data File : FD048601.D
Signal(s) : FID2B.ch
Acq On : 28 Oct 2024 12:40
Sample : I.BLK
Misc :
ALS Vial : 51 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 102324.M
Title : GC Extractables

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total

No peaks were detected!

Aromatic EPH 102324.M Tue Oct 29 05:17:22 2024

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

Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	I.BLK	Acq On:	29 Oct 2024 08:17
Client Sample ID:	I.BLK	Operator:	YP/AJ
Data file:	FD048613.D	Misc:	
Instrument:	FID_D	ALS Vial:	51
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.094	5.812	0	0	200	ug/ml
Aromatic C12-C16	5.813	8.417	0	0	300	ug/ml
Aromatic C16-C21	8.418	12.677	0	0	500	ug/ml
Aromatic C21-C36	12.678	18.081	0	0	800	ug/ml
Aromatic EPH	4.094	18.081	0	0		ug/ml
2-Bromonaphthalene (SURR)	0.000	0.000	0	0		ug/ml
2-Flurobiphenyl (SURR)	0.000	0.000	0	0		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD102824AR\
Data File : FD048613.D
Signal(s) : FID2B.ch
Acq On : 29 Oct 2024 08:17
Operator : YP/AJ
Sample : I.BLK
Misc :
ALS Vial : 51 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
I.BLK

Integration File: autoint1.e
Quant Time: Oct 30 02:38:59 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 18:14:59 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

Compound	R.T.	Response	Conc	Units

System Monitoring Compounds

Target Compounds

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

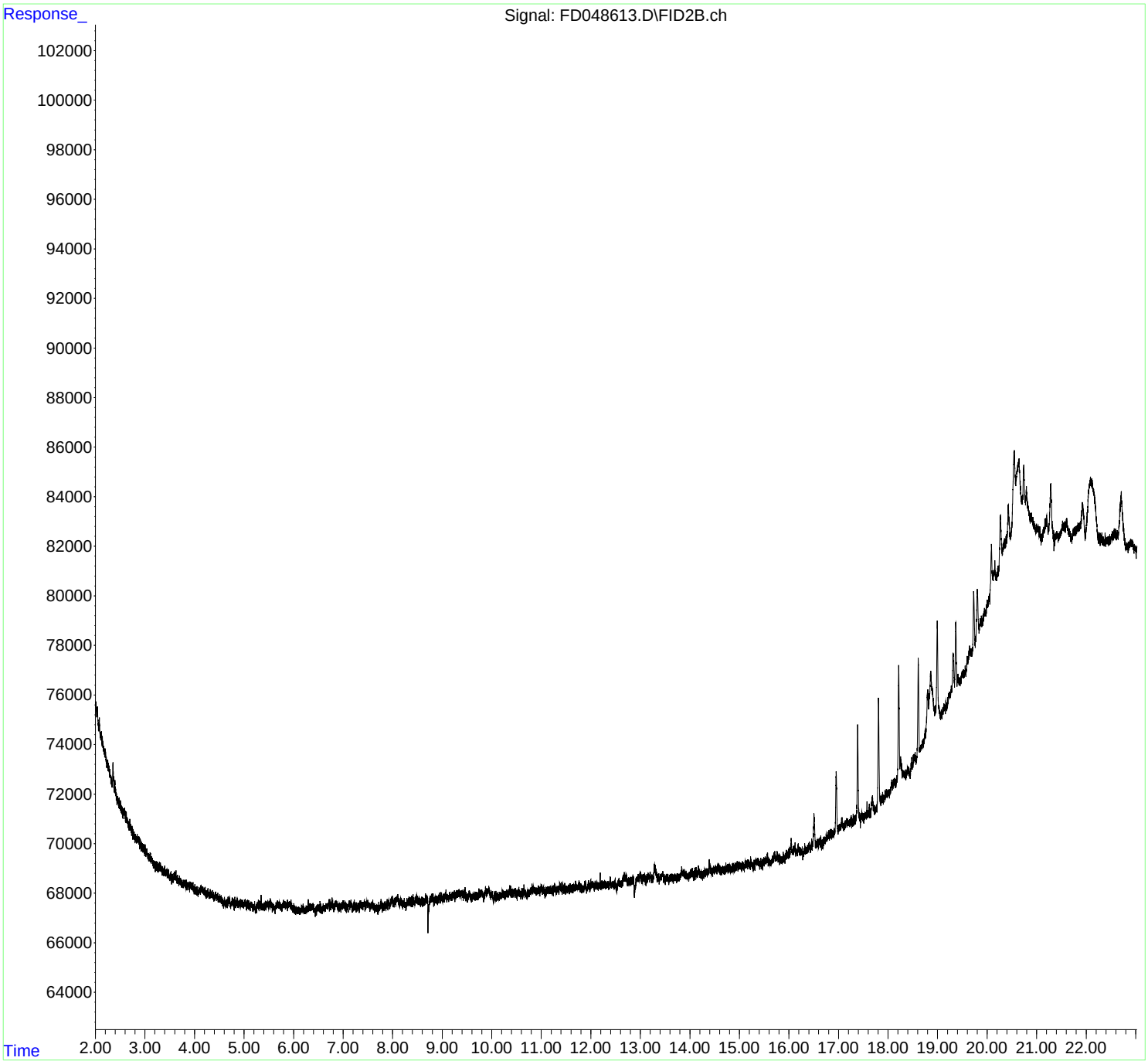
Quantitation Report (QT Reviewed)

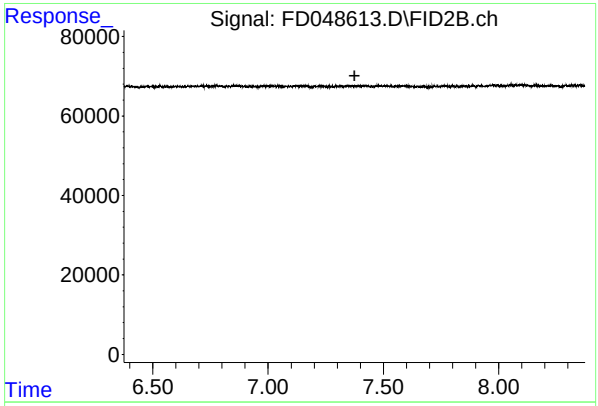
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD102824AR\
Data File : FD048613.D
Signal(s) : FID2B.ch
Acq On : 29 Oct 2024 08:17
Operator : YP/AJ
Sample : I.BLK
Misc :
ALS Vial : 51 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
I.BLK

Integration File: autoint1.e
Quant Time: Oct 30 02:38:59 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 18:14:59 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

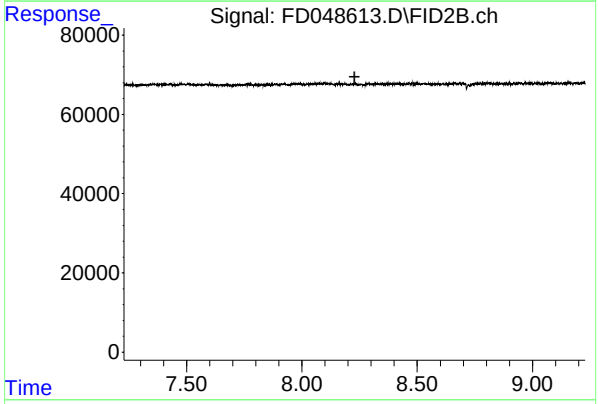




#4 2-Bromonaphthalene (SURR)

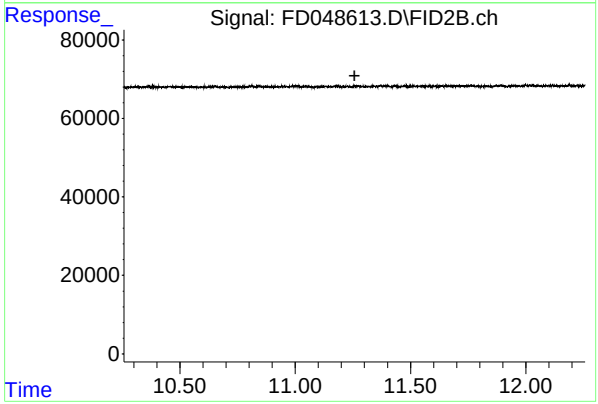
R.T.: 0.000 min
Exp R.T. : 7.375 min
Response: 0
Conc: N.D.

Instrument :
FID_D
ClientSampleId :
I.BLK



#6 2-Flurobiphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 8.228 min
Response: 0
Conc: N.D.



#11 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.257 min
Response: 0
Conc: N.D.

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD102824AR\
Data File : FD048613.D
Signal(s) : FID2B.ch
Acq On : 29 Oct 2024 08:17
Sample : I.BLK
Misc :
ALS Vial : 51 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 102324.M
Title : GC Extractables

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total

No peaks were detected!

Aromatic EPH 102324.M Wed Oct 30 03:17:35 2024

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

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	
Project:	NJ Soil PT	Date Received:	
Client Sample ID:	PB164396BS	SDG No.:	P4495
Lab Sample ID:	PB164396BS	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	100
Sample Wt/Vol:	30.03 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
10/25/24 09:05	10/28/24 15:08	PB164396

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	5.70		1	0.38	1.00	mg/kg	FC067543.D
Aliphatic C12-C16	Aliphatic C12-C16	5.41		1	0.24	0.67	mg/kg	FC067543.D
Aliphatic C16-C21	Aliphatic C16-C21	9.37		1	0.30	1.00	mg/kg	FC067543.D
Aliphatic C21-C28	Aliphatic C21-C28	12.7		1	0.80	1.33	mg/kg	FC067543.D
Aliphatic C28-C40	Aliphatic C28-C40	22.7		1	1.80	2.00	mg/kg	FC067543.D
Aromatic C10-C12	Aromatic C10-C12	4.85		1	0.30	0.67	mg/kg	FD048604.D
Aromatic C12-C16	Aromatic C12-C16	8.24		1	0.34	1.00	mg/kg	FD048604.D
Aromatic C16-C21	Aromatic C16-C21	17.6		1	0.96	1.67	mg/kg	FD048604.D
Aromatic C21-C36	Aromatic C21-C36	26.4		1	2.00	2.66	mg/kg	FD048604.D
Total AliphaticEPH	Total AliphaticEPH	55.9			3.52	5.99	mg/kg	
Total AromaticEPH	Total AromaticEPH	57.1			3.60	6.00	mg/kg	
Total EPH	Total EPH	113			7.12	12.0	mg/kg	

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

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

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

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	
Project:	NJ Soil PT	Date Received:	
Client Sample ID:	PB164396BS	SDG No.:	P4495
Lab Sample ID:	PB164396BS	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	100
Sample Wt/Vol:	30.03 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FC067543.D	1	10/25/24	10/28/24	PB164396

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C12	Aliphatic C9-C12	5.70		0.38	1.00	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16	5.41		0.24	0.67	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21	9.37		0.30	1.00	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28	12.7		0.80	1.33	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	22.7		1.80	2.00	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	30.6		40 - 140	61%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	0.00		40 - 140	0%	SPK: 50

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

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	PB164396BS	Acq On:	28 Oct 2024 15:08
Client Sample ID:	PB164396BS	Operator:	YP/AJ
Data file:	FC067543.D	Misc:	
Instrument:	FID_C	ALS Vial:	19
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.173	6.453	11602133	85.644	300	ug/ml
Aliphatic C12-C16	6.454	9.842	10695713	81.224	200	ug/ml
Aliphatic C16-C21	9.843	13.200	17892667	140.627	300	ug/ml
Aliphatic C21-C28	13.201	16.853	22932840	190.963	400	ug/ml
Aliphatic C28-C40	16.854	21.695	34400430	340.284	600	ug/ml
Aliphatic EPH	3.173	21.695	97523783	838.742		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	12.932	12.932	3308795	30.64		ug/ml
Aliphatic C9-C28	3.173	16.853	63123353	498.458	1200	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC102824AL\
Data File : FC067543.D
Signal(s) : FID1A.ch
Acq On : 28 Oct 2024 15:08
Operator : YP/AJ
Sample : PB164396BS
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
PB164396BS

Integration File: sample.E
Quant Time: Oct 29 00:12:56 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 18:12:58 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				
12) S	1-chlorooctadecane (S...	12.932	3308795	30.640	ug/ml
Spiked Amount	50.000		Recovery =	61.28%	
	Target Compounds				
1) T	n-Nonane (C9)	3.274	3199806	23.751	ug/ml
2) T	n-Decane (C10)	4.339	3900159	28.626	ug/ml
4) T	n-Dodecane (C12)	6.354	4502168	33.240	ug/ml
6) T	n-Tetradecane (C14)	8.146	5080179	38.703	ug/ml
7) T	n-Hexadecane (C16)	9.744	5615534	42.509	ug/ml
8) T	n-Octadecane (C18)	11.184	5907558	44.716	ug/ml
10) T	n-Eicosane (C20)	12.491	6097550	48.325	ug/ml
11) T	n-Heneicosane (C21)	13.102	5887559	47.706	ug/ml
13) T	n-Docosane (C22)	13.687	5859150	47.850	ug/ml
14) T	n-Tetracosane (C24)	14.789	5773507	47.632	ug/ml
15) T	n-Hexacosane (C26)	15.808	5683607	47.739	ug/ml
16) T	n-Octacosane (C28)	16.755	5616576	47.741	ug/ml
17) T	n-Tricontane (C30)	17.641	5674811	46.949	ug/ml
18) T	n-Dotriacontane (C32)	18.473	5671715	47.935	ug/ml
19) T	n-Tetratriacontane (C34)	19.253	5717154	54.591	ug/ml
20) T	n-Hexatriacontane (C36)	19.993	5731513	62.965	ug/ml
21) T	n-Octatriacontane (C38)	20.716	5793952	66.903	ug/ml
22) T	n-Tetracontane (C40)	21.599	5811285	68.359	ug/ml

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

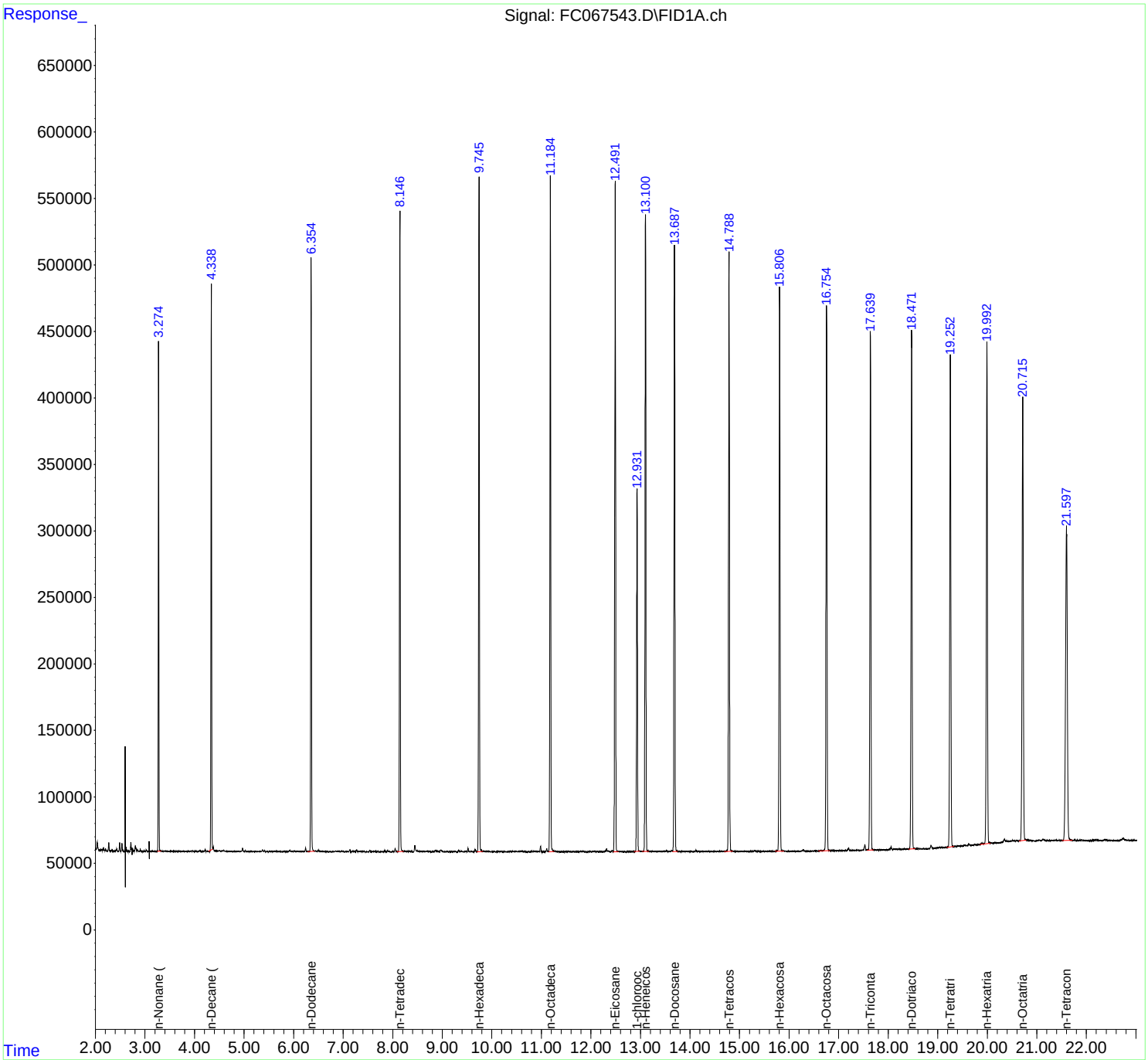
Quantitation Report (QT Reviewed)

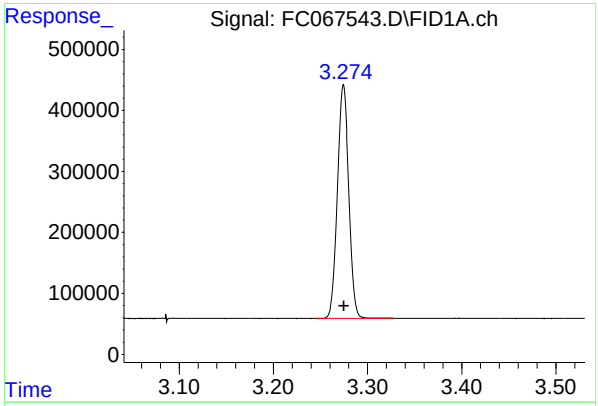
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC102824AL\
Data File : FC067543.D
Signal(s) : FID1A.ch
Acq On : 28 Oct 2024 15:08
Operator : YP/AJ
Sample : PB164396BS
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
PB164396BS

Integration File: sample.E
Quant Time: Oct 29 00:12:56 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 18:12:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

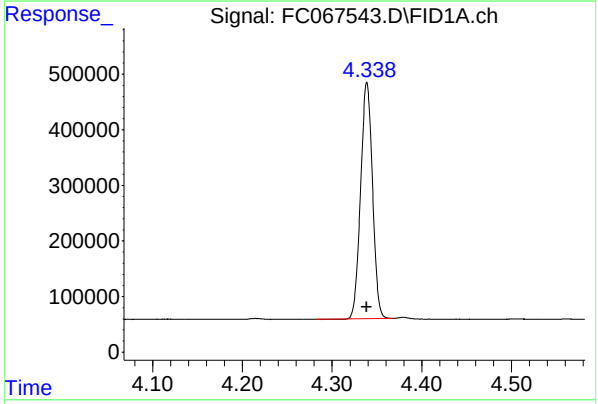




#1 n-Nonane (C9)

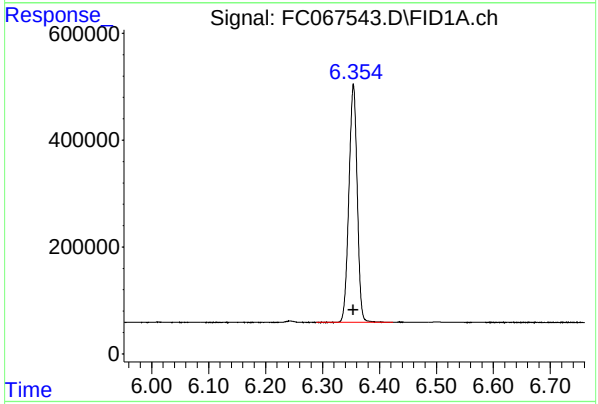
R.T.: 3.274 min
Delta R.T.: 0.000 min
Response: 3199806
Conc: 23.75 ug/ml

Instrument :
FID_C
ClientSampleId :
PB164396BS



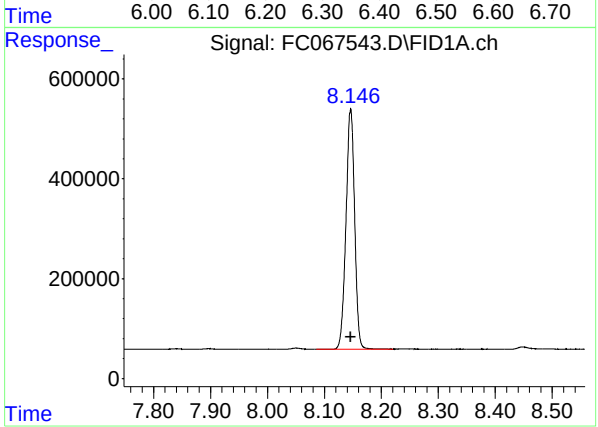
#2 n-Decane (C10)

R.T.: 4.339 min
Delta R.T.: 0.000 min
Response: 3900159
Conc: 28.63 ug/ml



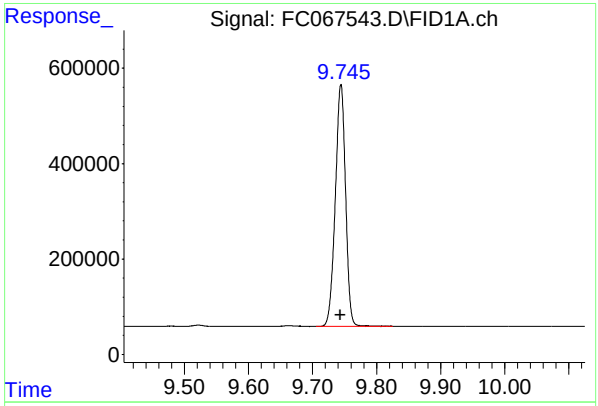
#4 n-Dodecane (C12)

R.T.: 6.354 min
Delta R.T.: 0.000 min
Response: 4502168
Conc: 33.24 ug/ml



#6 n-Tetradecane (C14)

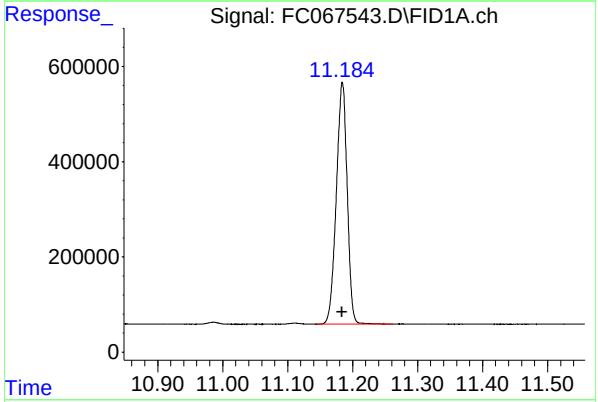
R.T.: 8.146 min
Delta R.T.: 0.000 min
Response: 5080179
Conc: 38.70 ug/ml



#7 n-Hexadecane (C16)

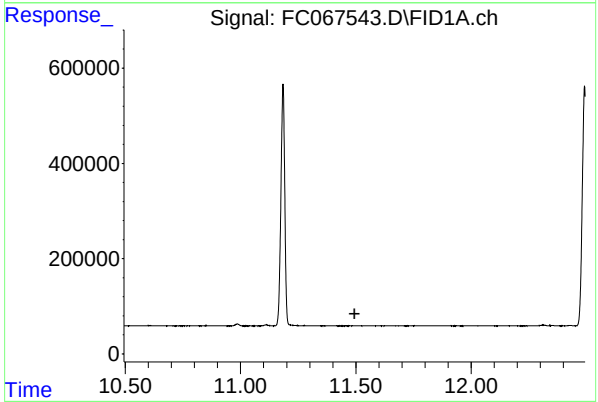
R.T.: 9.744 min
Delta R.T.: 0.000 min
Response: 5615534
Conc: 42.51 ug/ml

Instrument :
FID_C
ClientSampleId :
PB164396BS



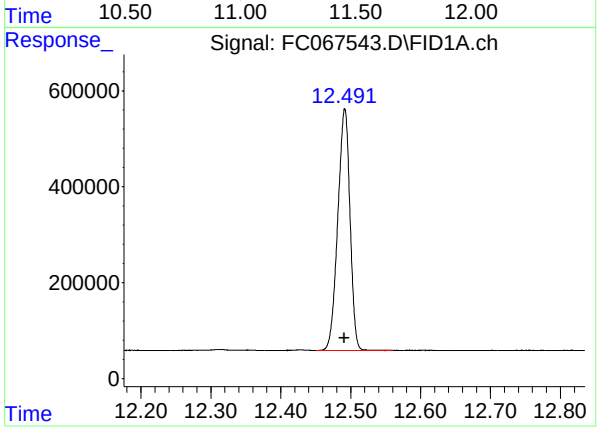
#8 n-Octadecane (C18)

R.T.: 11.184 min
Delta R.T.: 0.000 min
Response: 5907558
Conc: 44.72 ug/ml



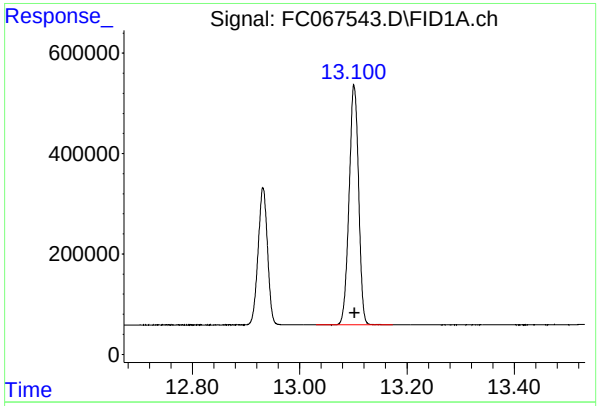
#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.494 min
Response: 0
Conc: N.D.



#10 n-Eicosane (C20)

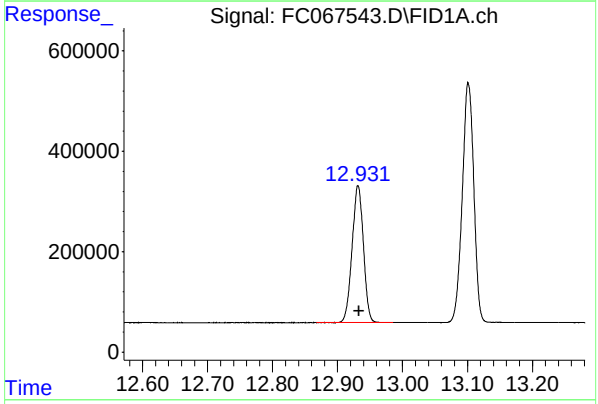
R.T.: 12.491 min
Delta R.T.: 0.000 min
Response: 6097550
Conc: 48.33 ug/ml



#11 n-Heneicosane (C21)

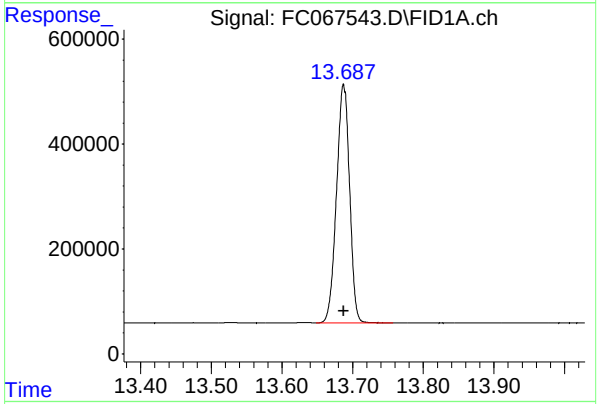
R.T.: 13.102 min
Delta R.T.: 0.000 min
Response: 5887559
Conc: 47.71 ug/ml

Instrument :
FID_C
ClientSampleId :
PB164396BS



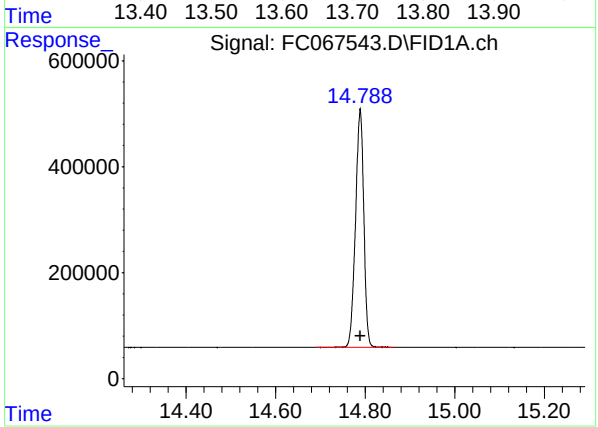
#12 1-chlorooctadecane (SURR)

R.T.: 12.932 min
Delta R.T.: -0.001 min
Response: 3308795
Conc: 30.64 ug/ml



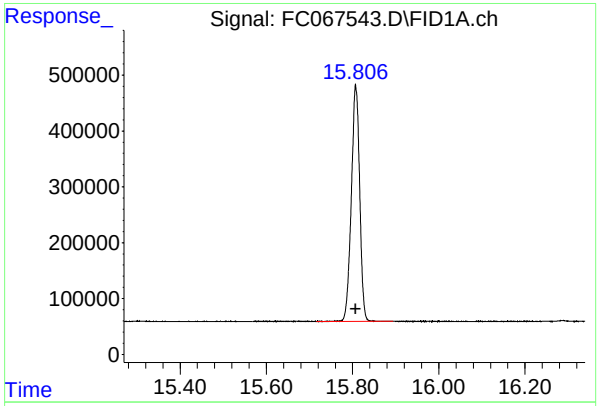
#13 n-Docosane (C22)

R.T.: 13.687 min
Delta R.T.: 0.000 min
Response: 5859150
Conc: 47.85 ug/ml



#14 n-Tetracosane (C24)

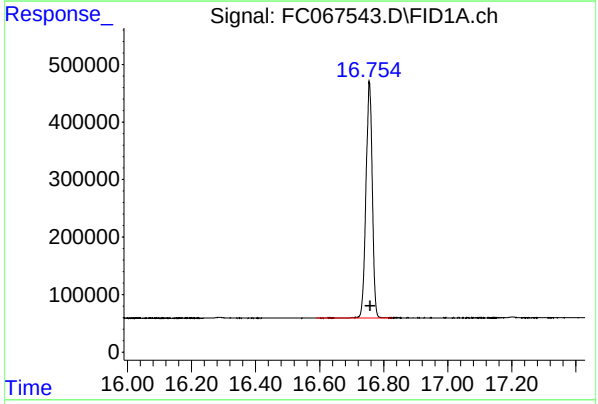
R.T.: 14.789 min
Delta R.T.: 0.000 min
Response: 5773507
Conc: 47.63 ug/ml



#15 n-Hexacosane (C26)

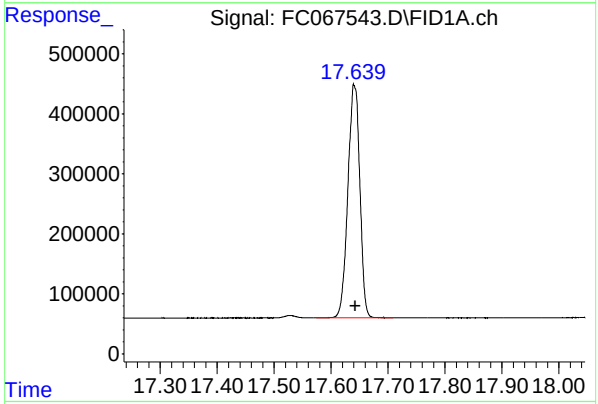
R.T.: 15.808 min
Delta R.T.: 0.000 min
Response: 5683607
Conc: 47.74 ug/ml

Instrument :
FID_C
ClientSampleId :
PB164396BS



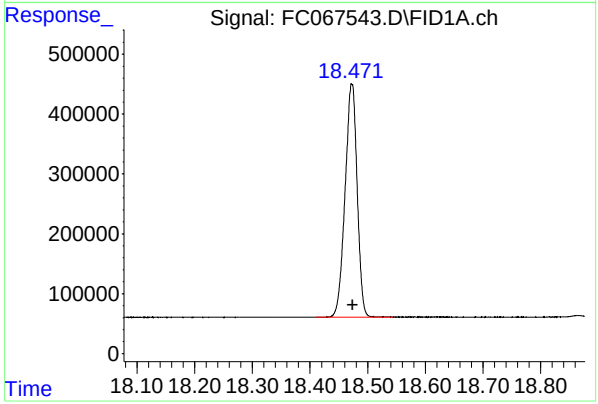
#16 n-Octacosane (C28)

R.T.: 16.755 min
Delta R.T.: -0.002 min
Response: 5616576
Conc: 47.74 ug/ml



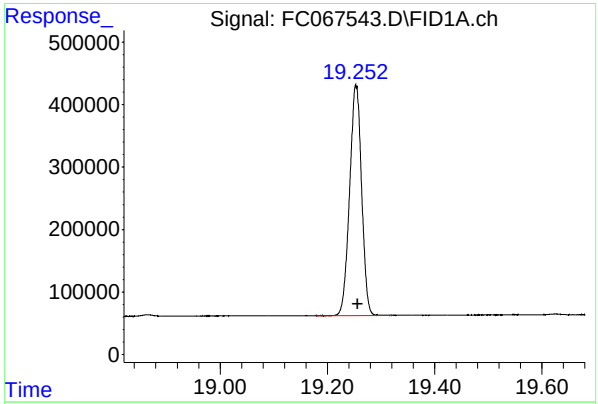
#17 n-Tricontane (C30)

R.T.: 17.641 min
Delta R.T.: -0.001 min
Response: 5674811
Conc: 46.95 ug/ml



#18 n-Dotriacontane (C32)

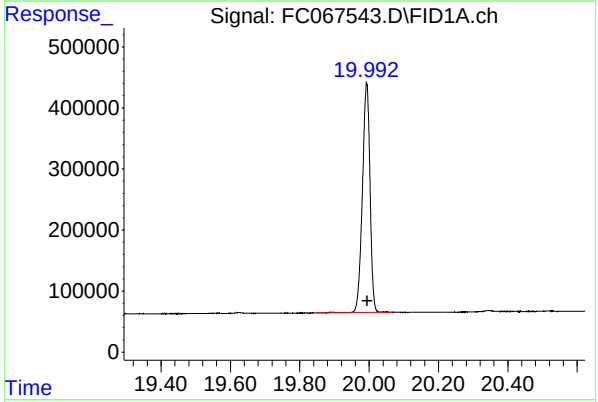
R.T.: 18.473 min
Delta R.T.: -0.001 min
Response: 5671715
Conc: 47.94 ug/ml



#19 n-Tetratriacontane (C34)

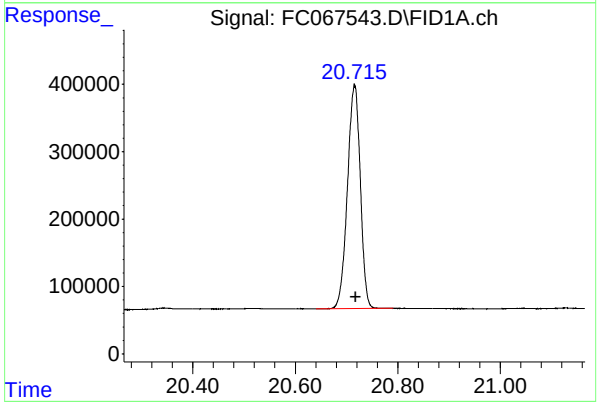
R.T.: 19.253 min
Delta R.T.: -0.003 min
Response: 5717154
Conc: 54.59 ug/ml

Instrument :
FID_C
ClientSampleId :
PB164396BS



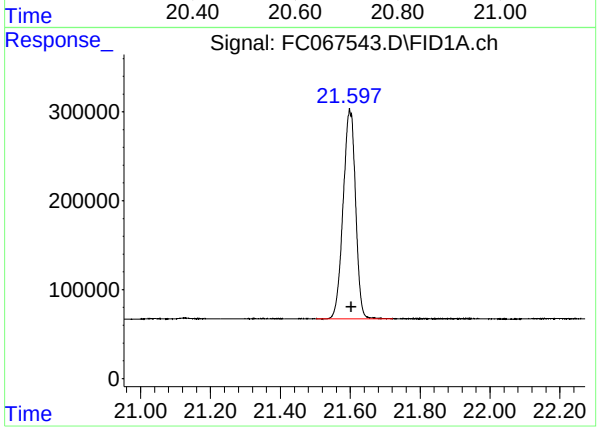
#20 n-Hexatriacontane (C36)

R.T.: 19.993 min
Delta R.T.: -0.002 min
Response: 5731513
Conc: 62.97 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 20.716 min
Delta R.T.: -0.002 min
Response: 5793952
Conc: 66.90 ug/ml



#22 n-Tetracontane (C40)

R.T.: 21.599 min
Delta R.T.: -0.004 min
Response: 5811285
Conc: 68.36 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC102824AL\
Data File : FC067543.D
Signal(s) : FID1A.ch
Acq On : 28 Oct 2024 15:08
Sample : PB164396BS
Misc :
ALS Vial : 19 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 102324.M
Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.274	3.245	3.327	BB	382741	3199806	52.48%	3.173%
2	4.339	4.282	4.368	BV	424853	3900159	63.96%	3.868%
3	6.354	6.289	6.424	BB	444399	4502168	73.84%	4.465%
4	8.146	8.085	8.220	BB	479139	5080179	83.32%	5.038%
5	9.744	9.705	9.825	BB	507544	5615534	92.09%	5.569%
6	11.184	11.144	11.262	PB	509242	5907558	96.88%	5.859%
7	12.491	12.450	12.560	PB	504583	6097550	100.00%	6.047%
8	12.932	12.867	12.985	BB	272195	3308795	54.26%	3.281%
9	13.102	13.030	13.174	BB	473606	5887559	96.56%	5.839%
10	13.687	13.648	13.757	VB	454429	5859150	96.09%	5.811%
11	14.789	14.690	14.862	BB	450218	5773507	94.69%	5.726%
12	15.808	15.715	15.894	BB	422364	5683607	93.21%	5.637%
13	16.755	16.589	16.829	BB	408608	5616576	92.11%	5.570%
14	17.641	17.574	17.709	BB	387036	5674811	93.07%	5.628%
15	18.473	18.410	18.544	BB	390803	5671715	93.02%	5.625%
16	19.253	19.179	19.322	BV	366344	5717154	93.76%	5.670%
17	19.993	19.847	20.069	BB	376979	5731513	94.00%	5.684%
18	20.716	20.640	20.790	BB	332626	5793952	95.02%	5.746%
19	21.599	21.502	21.722	BB	234061	5811285	95.31%	5.763%

Sum of corrected areas: 100832576

Aliphatic EPH 102324.M Tue Oct 29 05:01:04 2024

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

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	
Project:	NJ Soil PT	Date Received:	
Client Sample ID:	PB164396BS	SDG No.:	P4495
Lab Sample ID:	PB164396BS	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	100
Sample Wt/Vol:	30.03 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FD048604.D	1	10/25/24	10/28/24	PB164396

CAS Number	Parameter		Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
Aromatic C10-C12	Aromatic C10-C12		4.85		0.30	0.67	mg/kg
Aromatic C12-C16	Aromatic C12-C16		8.24		0.34	1.00	mg/kg
Aromatic C16-C21	Aromatic C16-C21		17.6		0.96	1.67	mg/kg
Aromatic C21-C36	Aromatic C21-C36		26.4		2.00	2.66	mg/kg
SURROGATES							
580-13-2	2-Bromonaphthalene (SURR)		48.8		40 - 140	98%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)		49.8		40 - 140	100%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)		40.1		40 - 140	80%	SPK: 50

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

Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	PB164396BS	Acq On:	28 Oct 2024 14:32
Client Sample ID:	PB164396BS	Operator:	YP/AJ
Data file:	FD048604.D	Misc:	
Instrument:	FID_D	ALS Vial:	67
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.094	5.812	12825233	72.787	200	ug/ml
Aromatic C12-C16	5.813	8.417	21934412	123.732	300	ug/ml
Aromatic C16-C21	8.418	12.677	43230256	263.869	500	ug/ml
Aromatic C21-C36	12.678	18.081	60433780	395.734	800	ug/ml
Aromatic EPH	4.094	18.081	138423681	856.121		ug/ml
ortho-Terphenyl (SURR)	11.258	11.258	6830259	40.1		ug/ml
2-Bromonaphthalene (SURR)	7.372	7.372	7402684	48.77		ug/ml
2-Flurobiphenyl (SURR)	8.222	8.222	4892407	49.82		ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD102824AR\
Data File : FD048604.D
Signal(s) : FID2B.ch
Acq On : 28 Oct 2024 14:32
Operator : YP/AJ
Sample : PB164396BS
Misc :
ALS Vial : 67 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
PB164396BS

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 10/29/2024
Supervised By :Ankita Jodhani 10/29/2024

Integration File: autoint1.e
Quant Time: Oct 29 00:22:39 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 18:14:59 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
4)	S 2-Bromonaphthalene (S...	7.372	7402684	48.773	ug/ml
Spiked Amount	50.000		Recovery =	97.55%	
6)	S 2-Flurobiphenyl (SURR)	8.222	4892407	49.825	ug/ml
Spiked Amount	50.000 Range 0 - 131		Recovery =	99.65%	
11)	S ortho-Terphenyl (SURR)	11.258	6830259	40.098	ug/ml
Spiked Amount	50.000		Recovery =	80.20%	
	Target Compounds				
1)	T 1,2,3-Trimethylbenzen...	4.196	5983384	34.393	ug/mlm
2)	T Naphthalene (C11.7)	5.712	6832246	38.290	ug/ml
3)	T 2-Methylnaphthalene (...	6.759	6751071	37.744	ug/ml
5)	T Acenaphthylene (C15.06)	8.025	7372752	41.988	ug/ml
7)	T Acenaphthene (C15.5)	8.321	7810589	44.037	ug/ml
8)	T Flouorene (C16.55)	9.099	8087323	47.844	ug/ml
9)	T Phenanthrene (C19.36)	10.487	8287031	50.131	ug/ml
10)	T Anthracene (C19.43)	10.562	8435961	52.754	ug/ml
12)	T Fluoranthene (C21.85)	12.291	8485411	51.559	ug/mlm
13)	T Pyrene (C20.8)	12.584	8817223	54.739	ug/ml
14)	T Benzo[a]anthracene (C...	14.453	7784802	53.242	ug/ml
15)	T Chrysene (C27.41)	14.497	7863685	47.806	ug/ml
16)	T benzo[b]fluoranthene ...	16.001	7661055	50.392	ug/ml
17)	T Bnezo[k]fluoranthene ...	16.036	7638597	50.821	ug/ml
18)	T Benzo[a]pyrene (C31.34)	16.377	7347552	48.822	ug/ml
19)	T Indeno[1,2,3-cd]pyren...	17.744	7707412	59.071	ug/ml
20)	T Dibenz[a,h]anthracene...	17.781	7303593	44.880	ug/ml
21)	T Benzo[g,h,i]perylene ...	17.996	7127084	46.554	ug/ml

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

Quantitation Report (QT Reviewed)

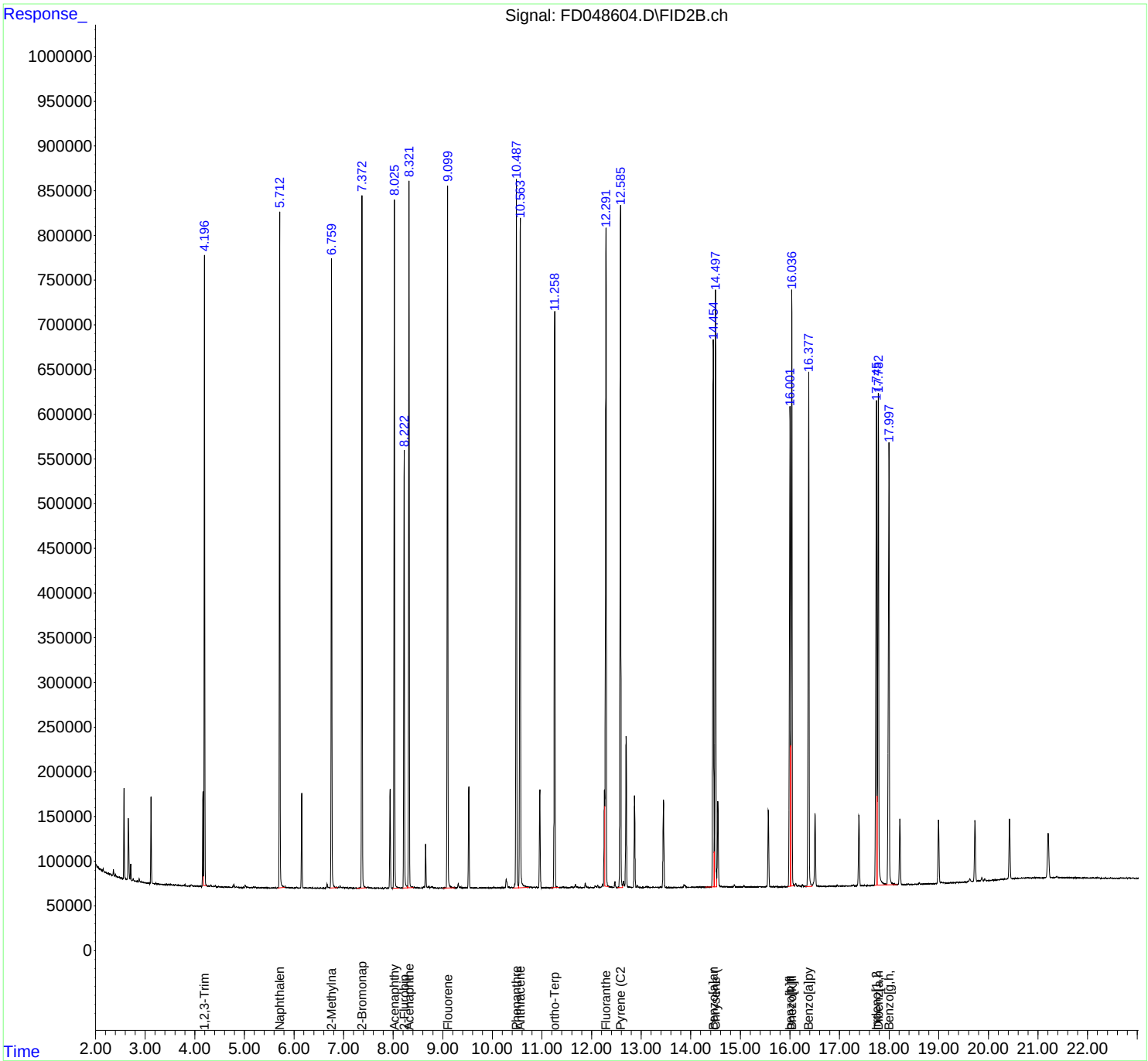
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD102824AR\
Data File : FD048604.D
Signal(s) : FID2B.ch
Acq On : 28 Oct 2024 14:32
Operator : YP/AJ
Sample : PB164396BS
Misc :
ALS Vial : 67 Sample Multiplier: 1

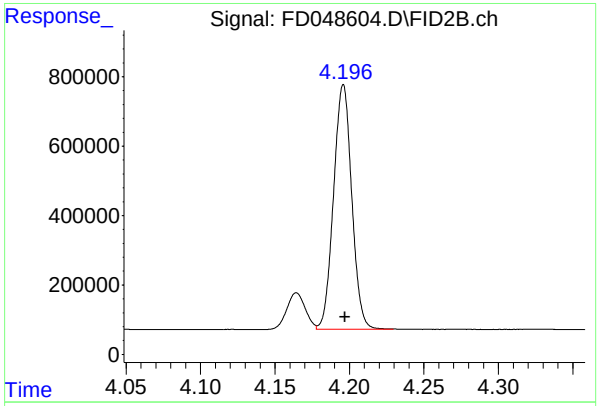
Instrument :
FID_D
ClientSampleId :
PB164396BS

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 10/29/2024
Supervised By :Ankita Jodhani 10/29/2024

Integration File: autoint1.e
Quant Time: Oct 29 00:22:39 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 18:14:59 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm





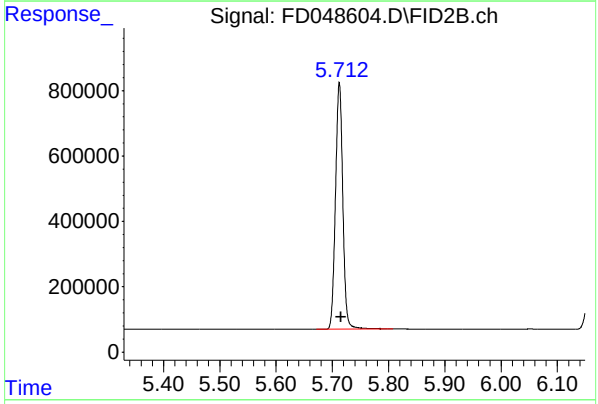
#1 1,2,3-Trimethylbenzene (C10.1)

R.T.: 4.196 min
Delta R.T.: -0.001 min
Response: 5983384
Conc: 34.39 ug/ml

Instrument :
FID_D
ClientSampleId :
PB164396BS

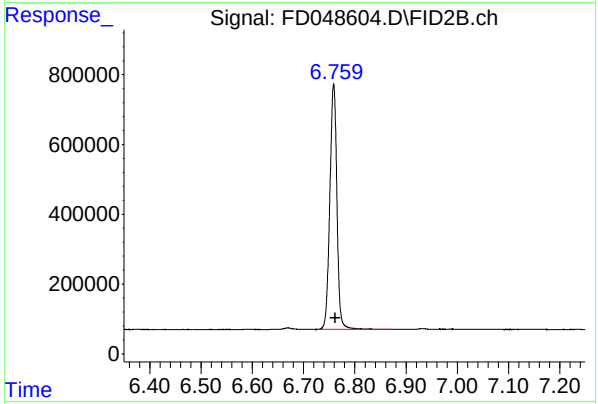
Manual Integrations APPROVED

Reviewed By :Yogesh Patel 10/29/2024
Supervised By :Ankita Jodhani 10/29/2024



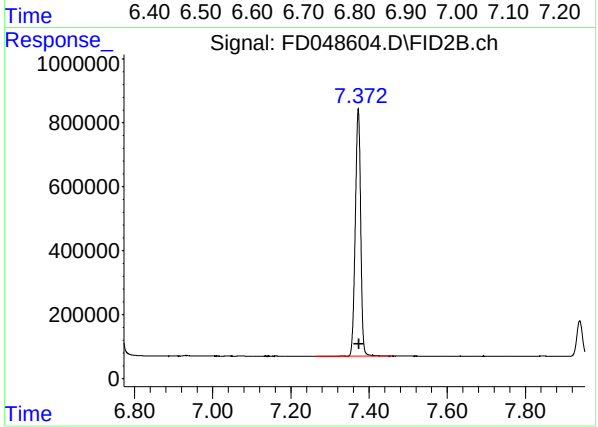
#2 Naphthalene (C11.7)

R.T.: 5.712 min
Delta R.T.: -0.003 min
Response: 6832246
Conc: 38.29 ug/ml



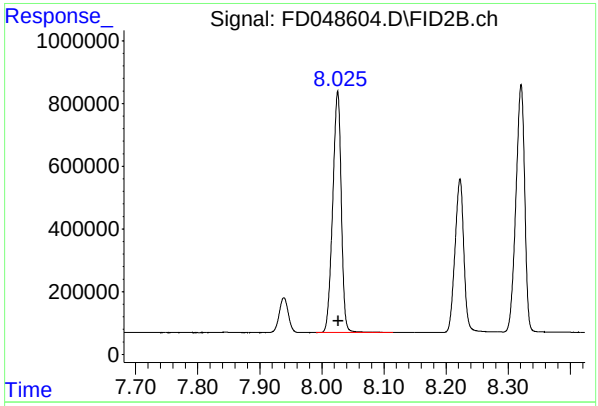
#3 2-Methylnaphthalene (C12.89)

R.T.: 6.759 min
Delta R.T.: -0.003 min
Response: 6751071
Conc: 37.74 ug/ml



#4 2-Bromonaphthalene (SURR)

R.T.: 7.372 min
Delta R.T.: -0.002 min
Response: 7402684
Conc: 48.77 ug/ml



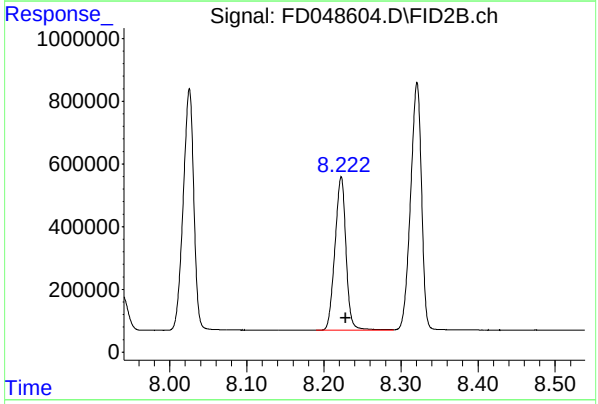
#5 Acenaphthylene (C15.06)

R.T.: 8.025 min
Delta R.T.: -0.001 min
Response: 7372752
Conc: 41.99 ug/ml

Instrument :
FID_D
ClientSampleId :
PB164396BS

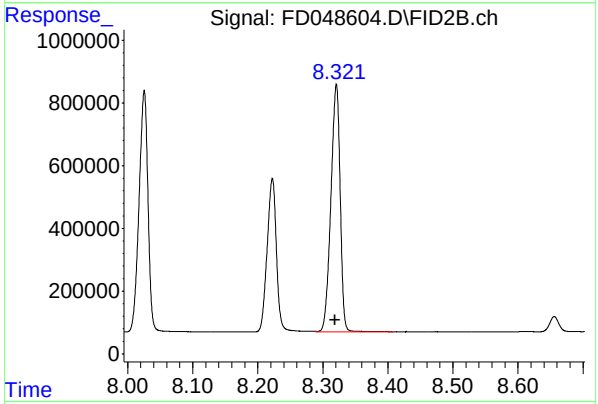
Manual Integrations APPROVED

Reviewed By :Yogesh Patel 10/29/2024
Supervised By :Ankita Jodhani 10/29/2024



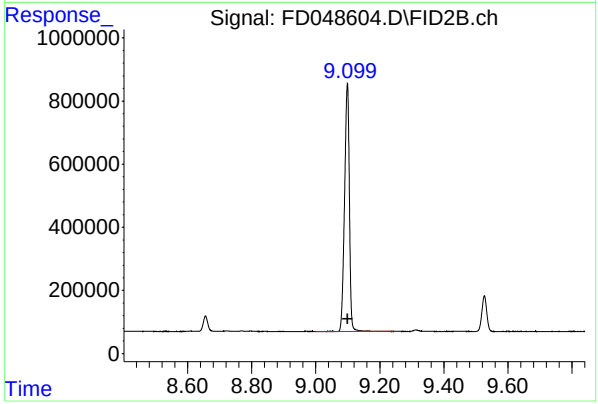
#6 2-Flurobiphenyl (SURR)

R.T.: 8.222 min
Delta R.T.: -0.006 min
Response: 4892407
Conc: 49.82 ug/ml



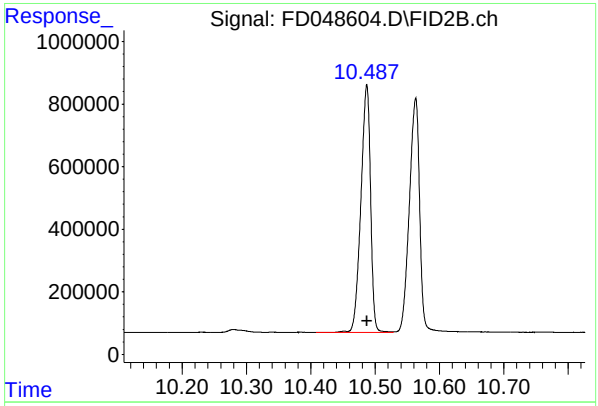
#7 Acenaphthene (C15.5)

R.T.: 8.321 min
Delta R.T.: 0.002 min
Response: 7810589
Conc: 44.04 ug/ml



#8 Flouorene (C16.55)

R.T.: 9.099 min
Delta R.T.: -0.002 min
Response: 8087323
Conc: 47.84 ug/ml



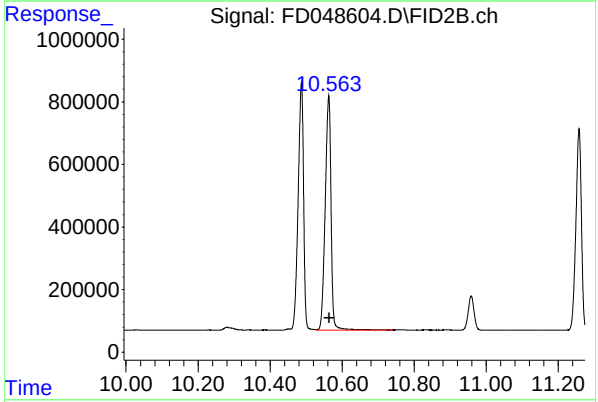
#9 Phenanthrene (C19.36)

R.T.: 10.487 min
Delta R.T.: 0.000 min
Response: 8287031
Conc: 50.13 ug/ml

Instrument :
FID_D
ClientSampleId :
PB164396BS

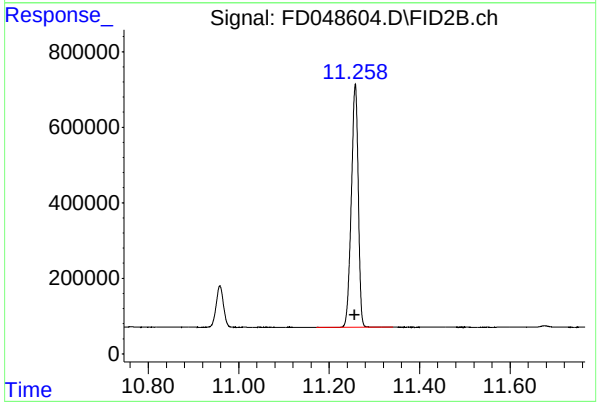
Manual Integrations APPROVED

Reviewed By :Yogesh Patel 10/29/2024
Supervised By :Ankita Jodhani 10/29/2024



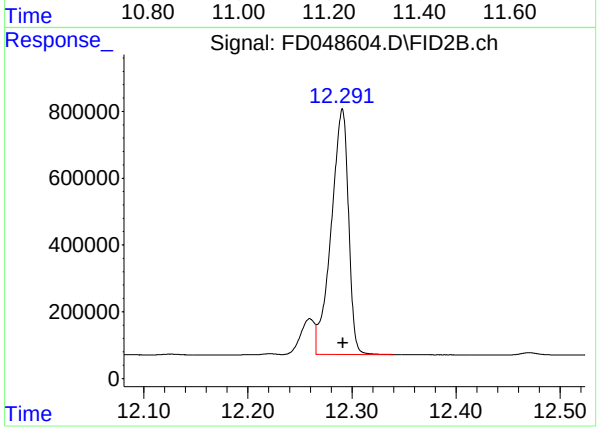
#10 Anthracene (C19.43)

R.T.: 10.562 min
Delta R.T.: -0.002 min
Response: 8435961
Conc: 52.75 ug/ml



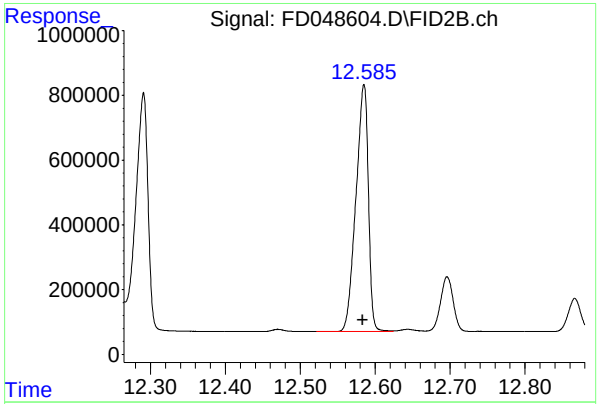
#11 ortho-Terphenyl (SURR)

R.T.: 11.258 min
Delta R.T.: 0.000 min
Response: 6830259
Conc: 40.10 ug/ml



#12 Fluoranthene (C21.85)

R.T.: 12.291 min
Delta R.T.: 0.000 min
Response: 8485411
Conc: 51.56 ug/ml m



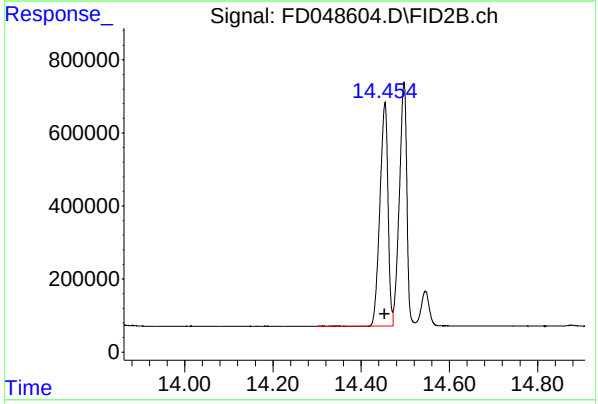
#13 Pyrene (C20.8)

R.T.: 12.584 min
Delta R.T.: 0.001 min
Response: 8817223
Conc: 54.74 ug/ml

Instrument :
FID_D
ClientSampleId :
PB164396BS

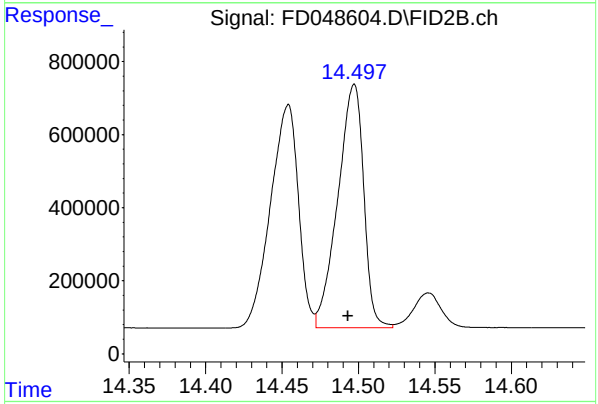
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/29/2024
Supervised By :Ankita Jodhani 10/29/2024



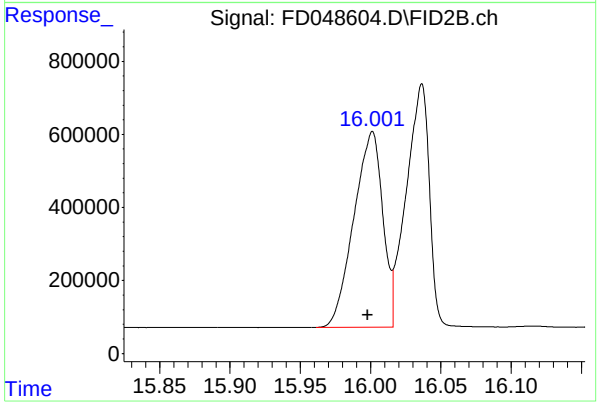
#14 Benzo[a]anthracene (C26.37)

R.T.: 14.453 min
Delta R.T.: 0.000 min
Response: 7784802
Conc: 53.24 ug/ml



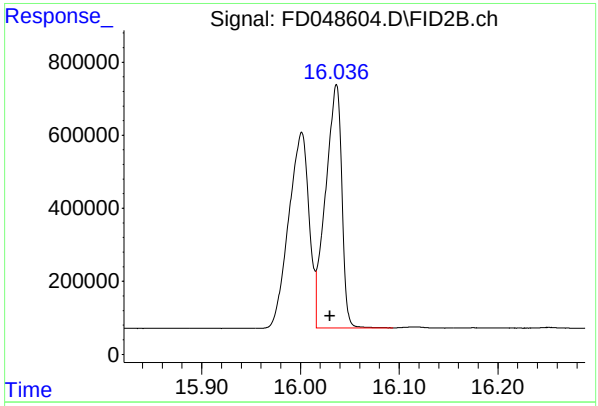
#15 Chrysene (C27.41)

R.T.: 14.497 min
Delta R.T.: 0.003 min
Response: 7863685
Conc: 47.81 ug/ml



#16 benzo[b]fluoranthene (C30.41)

R.T.: 16.001 min
Delta R.T.: 0.003 min
Response: 7661055
Conc: 50.39 ug/ml



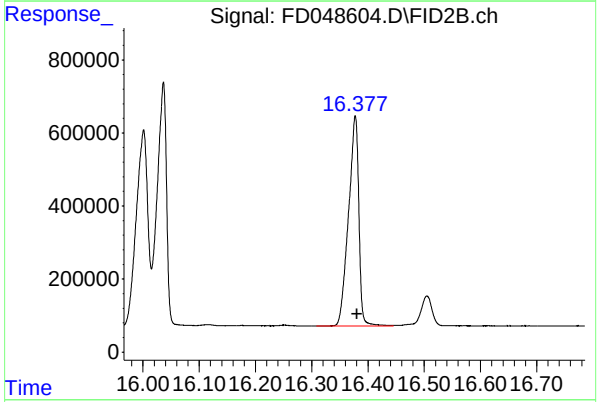
#17 Bnezo[k]fluoranthene (C30.14)

R.T.: 16.036 min
Delta R.T.: 0.006 min
Response: 7638597
Conc: 50.82 ug/ml

Instrument :
FID_D
ClientSampleId :
PB164396BS

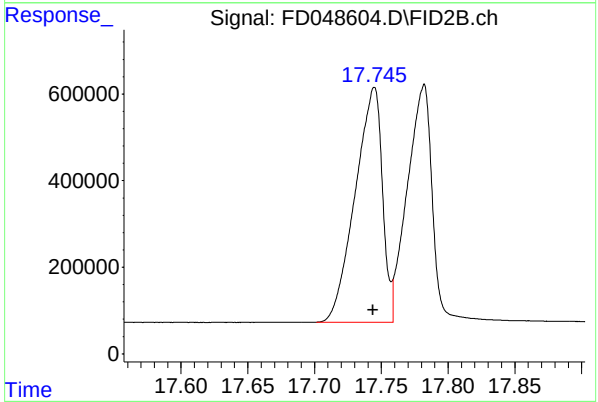
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/29/2024
Supervised By :Ankita Jodhani 10/29/2024



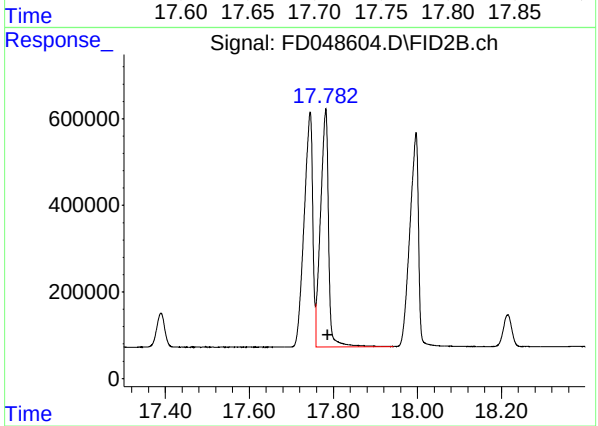
#18 Benzo[a]pyrene (C31.34)

R.T.: 16.377 min
Delta R.T.: -0.004 min
Response: 7347552
Conc: 48.82 ug/ml



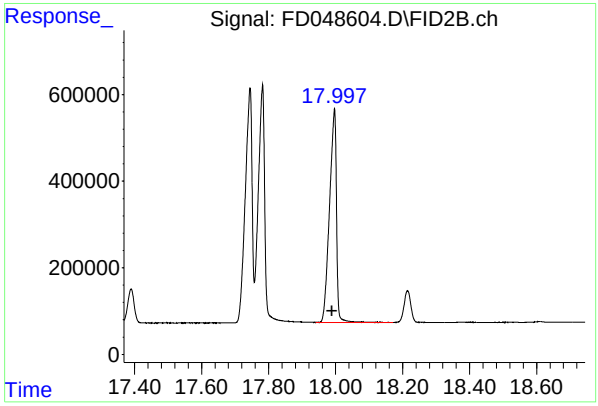
#19 Indeno[1,2,3-cd]pyrene (C35.01)

R.T.: 17.744 min
Delta R.T.: 0.000 min
Response: 7707412
Conc: 59.07 ug/ml



#20 Dibenz[a,h]anthracene (C30.36)

R.T.: 17.781 min
Delta R.T.: -0.006 min
Response: 7303593
Conc: 44.88 ug/ml



#21 Benzo[g,h,i]perylene (C34.01)

R.T.: 17.996 min
Delta R.T.: 0.006 mi
Response: 7127084
Conc: 46.55 ug/m

Instrument :
FID_D
ClientSampleId :
PB164396BS

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/29/2024
Supervised By :Ankita Jodhani 10/29/2024

Instrument :
FID_D
ClientSampleId :
PB164396BS

rteres

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 10/29/2024
Supervised By :Ankita Jodhani 10/29/2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD10282
Data File : FD048604.D
Signal(s) : FID2B.ch
Acq On : 28 Oct 2024 14:32
Sample : PB164396BS
Misc :
ALS Vial : 67 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 102324.M
Title : GC Extractables

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.196	4.179	4.247	M	706078	5992987	62.41%	3.804%
2	5.712	5.671	5.808	BV	746658	6832246	71.15%	4.337%
3	6.759	6.724	6.874	VB	700666	6751071	70.30%	4.285%
4	7.372	7.264	7.461	BV	767875	7402684	77.09%	4.699%
5	8.025	7.991	8.114	PV	763127	7372752	76.78%	4.680%
6	8.222	8.190	8.290	PV	484235	4892407	50.95%	3.105%
7	8.321	8.290	8.408	VB	794516	7810589	81.34%	4.958%
8	9.099	9.001	9.241	BB	779025	8087323	84.22%	5.133%
9	10.487	10.408	10.528	PV	800292	8287031	86.30%	5.260%
10	10.562	10.528	10.741	VV	738578	8435961	87.85%	5.354%
11	11.258	11.171	11.341	BB	644015	6830259	71.13%	4.335%
12	12.290	12.232	12.428	VB	745391	9602718	100.00%	6.095%
13	12.584	12.521	12.624	PV	764696	8817223	91.82%	5.596%
14	14.453	14.298	14.472	BV	616667	7784802	81.07%	4.941%
15	14.497	14.472	14.522	VV	674112	7863685	81.89%	4.991%
16	16.001	15.961	16.016	BV	538097	7661055	79.78%	4.863%
17	16.036	16.016	16.094	VV	650020	7638597	79.55%	4.848%
18	16.377	16.308	16.444	BV	580541	7347552	76.52%	4.664%
19	17.744	17.701	17.759	BV	547233	7707412	80.26%	4.892%
20	17.781	17.759	17.942	VV	547056	7303593	76.06%	4.636%
21	17.996	17.942	18.171	VV	483589	7127084	74.22%	4.524%

Sum of corrected areas: 157549030

Aromatic EPH 102324.M Tue Oct 29 05:18:48 2024

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

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	
Project:	NJ Soil PT	Date Received:	
Client Sample ID:	PB164396BSD	SDG No.:	P4495
Lab Sample ID:	PB164396BSD	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	100
Sample Wt/Vol:	30.02 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
10/25/24 09:05	10/28/24 15:50	PB164396

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	5.66		1	0.38	1.00	mg/kg	FC067544.D
Aliphatic C12-C16	Aliphatic C12-C16	5.38		1	0.24	0.67	mg/kg	FC067544.D
Aliphatic C16-C21	Aliphatic C16-C21	9.32		1	0.30	1.00	mg/kg	FC067544.D
Aliphatic C21-C28	Aliphatic C21-C28	12.6		1	0.80	1.33	mg/kg	FC067544.D
Aliphatic C28-C40	Aliphatic C28-C40	22.6		1	1.80	2.00	mg/kg	FC067544.D
Aromatic C10-C12	Aromatic C10-C12	5.03		1	0.30	0.67	mg/kg	FD048605.D
Aromatic C12-C16	Aromatic C12-C16	8.57		1	0.34	1.00	mg/kg	FD048605.D
Aromatic C16-C21	Aromatic C16-C21	18.3		1	0.96	1.67	mg/kg	FD048605.D
Aromatic C21-C36	Aromatic C21-C36	27.3		1	2.00	2.66	mg/kg	FD048605.D
Total AliphaticEPH	Total AliphaticEPH	55.6			3.52	5.99	mg/kg	
Total AromaticEPH	Total AromaticEPH	59.2			3.60	6.00	mg/kg	
Total EPH	Total EPH	115			7.12	12.0	mg/kg	

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

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

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

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	
Project:	NJ Soil PT	Date Received:	
Client Sample ID:	PB164396BSD	SDG No.:	P4495
Lab Sample ID:	PB164396BSD	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	100
Sample Wt/Vol:	30.02 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FC067544.D	1	10/25/24	10/28/24	PB164396

CAS Number	Parameter		Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
Aliphatic C9-C12	Aliphatic C9-C12		5.66		0.38	1.00	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16		5.38		0.24	0.67	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21		9.32		0.30	1.00	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28		12.6		0.80	1.33	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40		22.6		1.80	2.00	mg/kg
SURROGATES							
3383-33-2	1-chlorooctadecane (SURR)		33.3		40 - 140	67%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)		0.00		40 - 140	0%	SPK: 50

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

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	PB164396BSD	Acq On:	28 Oct 2024 15:50
Client Sample ID:	PB164396BSD	Operator:	YP/AJ
Data file:	FC067544.D	Misc:	
Instrument:	FID_C	ALS Vial:	20
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.173	6.453	11516872	85.014	300	ug/ml
Aliphatic C12-C16	6.454	9.842	10628641	80.715	200	ug/ml
Aliphatic C16-C21	9.843	13.200	17799805	139.897	300	ug/ml
Aliphatic C21-C28	13.201	16.853	22770349	189.61	400	ug/ml
Aliphatic C28-C40	16.854	21.695	34307411	339.364	600	ug/ml
Aliphatic EPH	3.173	21.695	97023078	834.6		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	12.934	12.934	3597357	33.31		ug/ml
Aliphatic C9-C28	3.173	16.853	62715667	495.236	1200	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC102824AL\
Data File : FC067544.D
Signal(s) : FID1A.ch
Acq On : 28 Oct 2024 15:50
Operator : YP/AJ
Sample : PB164396BSD
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
PB164396BSD

Integration File: sample.E
Quant Time: Oct 29 00:06:02 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 18:12:58 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			
12) S	1-chlorooctadecane (S...	12.934	3597357	33.312 ug/ml
Spiked Amount	50.000		Recovery =	66.62%
	Target Compounds			
1) T	n-Nonane (C9)	3.274	3167092	23.509 ug/ml
2) T	n-Decane (C10)	4.339	3871535	28.416 ug/ml
4) T	n-Dodecane (C12)	6.355	4478245	33.064 ug/ml
6) T	n-Tetradecane (C14)	8.147	5045421	38.438 ug/ml
7) T	n-Hexadecane (C16)	9.745	5583220	42.264 ug/ml
8) T	n-Octadecane (C18)	11.185	5888876	44.574 ug/ml
10) T	n-Eicosane (C20)	12.492	6062286	48.046 ug/ml
11) T	n-Heneicosane (C21)	13.103	5848643	47.390 ug/ml
13) T	n-Docosane (C22)	13.689	5811528	47.461 ug/ml
14) T	n-Tetracosane (C24)	14.790	5730338	47.276 ug/ml
15) T	n-Hexacosane (C26)	15.808	5648112	47.441 ug/ml
16) T	n-Octacosane (C28)	16.756	5580371	47.433 ug/ml
17) T	n-Tricontane (C30)	17.642	5647587	46.724 ug/ml
18) T	n-Dotriacontane (C32)	18.474	5648824	47.742 ug/ml
19) T	n-Tetratriacontane (C34)	19.255	5693761	54.367 ug/ml
20) T	n-Hexatriacontane (C36)	19.993	5692288	62.534 ug/ml
21) T	n-Octatriacontane (C38)	20.718	5810218	67.091 ug/ml
22) T	n-Tetracontane (C40)	21.602	5814733	68.400 ug/ml

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

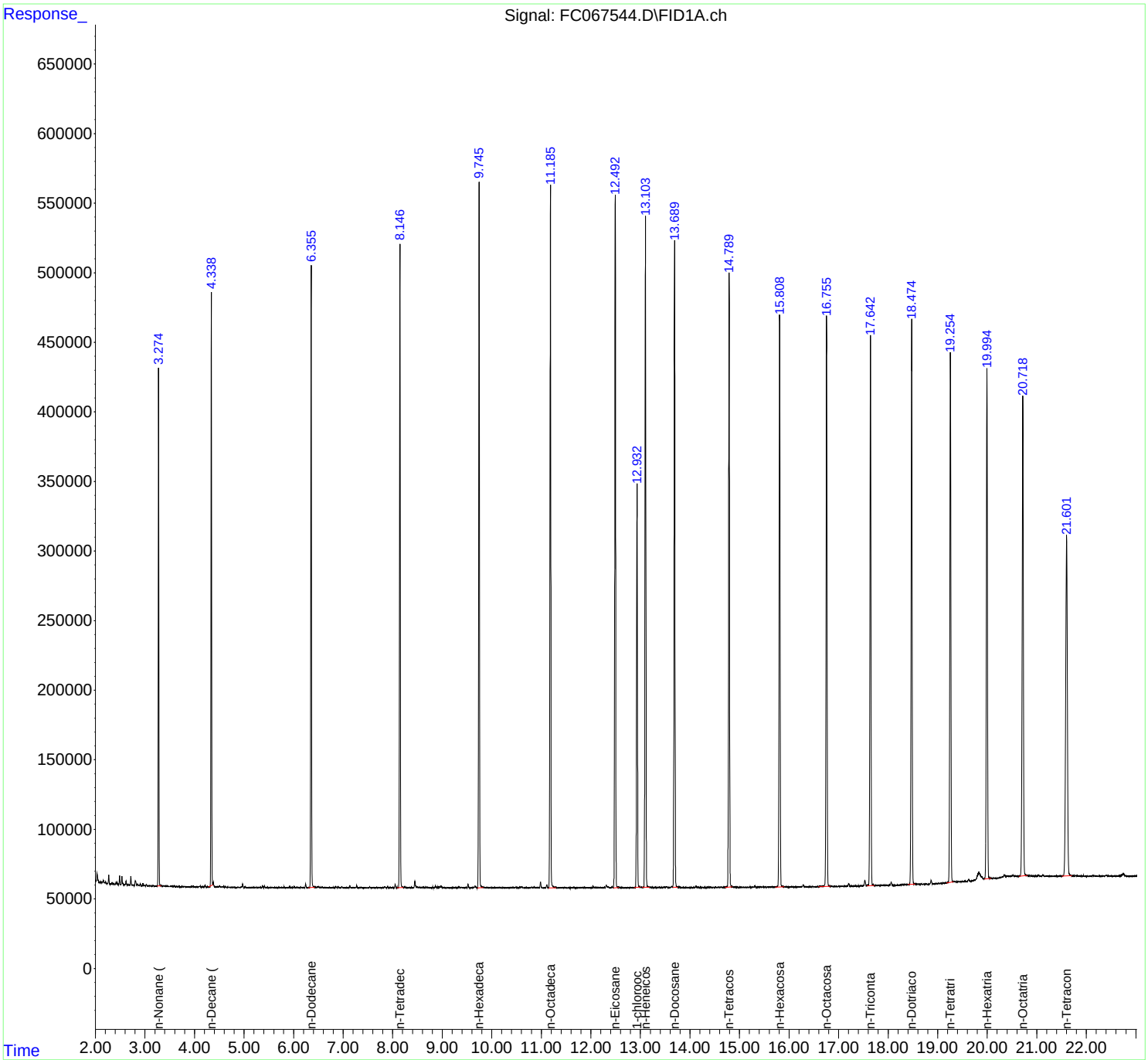
Quantitation Report (QT Reviewed)

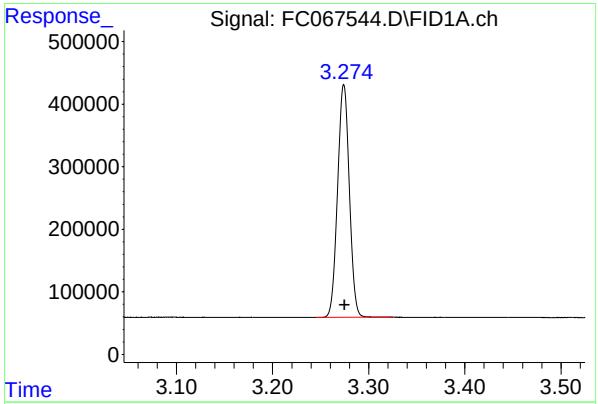
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC102824AL\
Data File : FC067544.D
Signal(s) : FID1A.ch
Acq On : 28 Oct 2024 15:50
Operator : YP/AJ
Sample : PB164396BSD
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
PB164396BSD

Integration File: sample.E
Quant Time: Oct 29 00:06:02 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 18:12:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

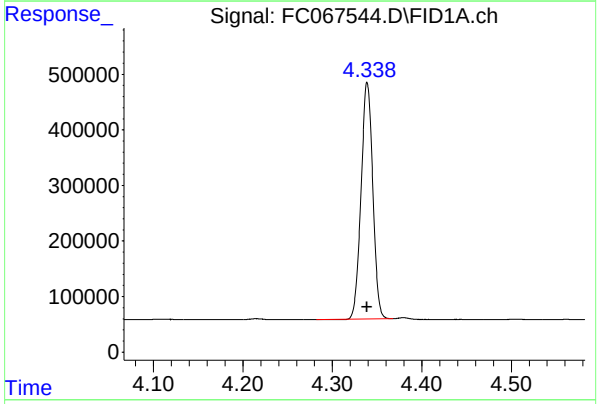




#1 n-Nonane (C9)

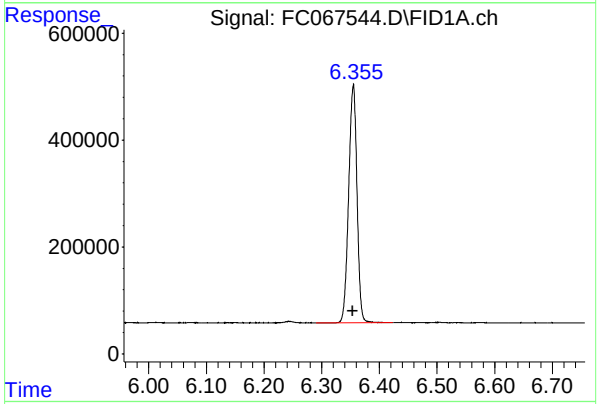
R.T.: 3.274 min
Delta R.T.: 0.000 min
Response: 3167092
Conc: 23.51 ug/ml

Instrument :
FID_C
ClientSampleId :
PB164396BSD



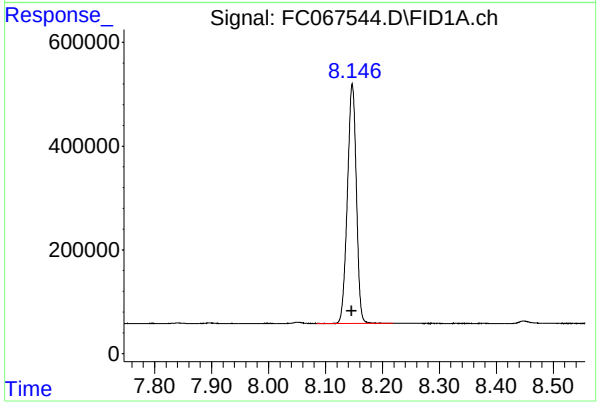
#2 n-Decane (C10)

R.T.: 4.339 min
Delta R.T.: 0.000 min
Response: 3871535
Conc: 28.42 ug/ml



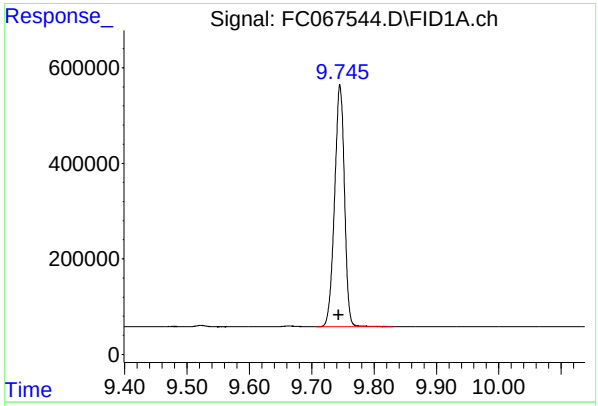
#4 n-Dodecane (C12)

R.T.: 6.355 min
Delta R.T.: 0.001 min
Response: 4478245
Conc: 33.06 ug/ml



#6 n-Tetradecane (C14)

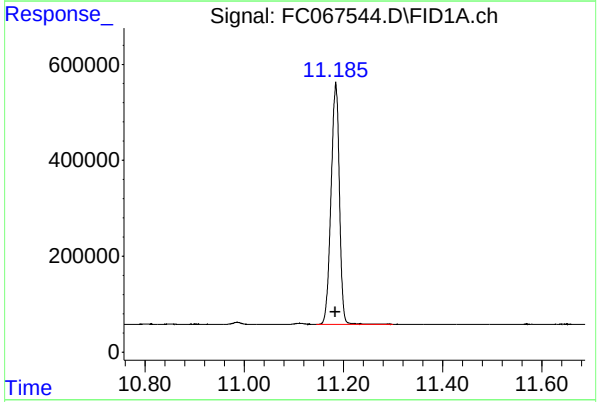
R.T.: 8.147 min
Delta R.T.: 0.001 min
Response: 5045421
Conc: 38.44 ug/ml



#7 n-Hexadecane (C16)

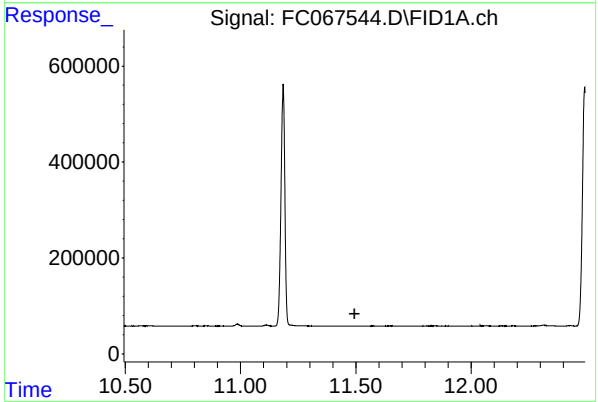
R.T.: 9.745 min
Delta R.T.: 0.002 mi
Response: 5583220
Conc: 42.26 ug/m

Instrument :
FID_C
ClientSampleId :
PB164396BSD



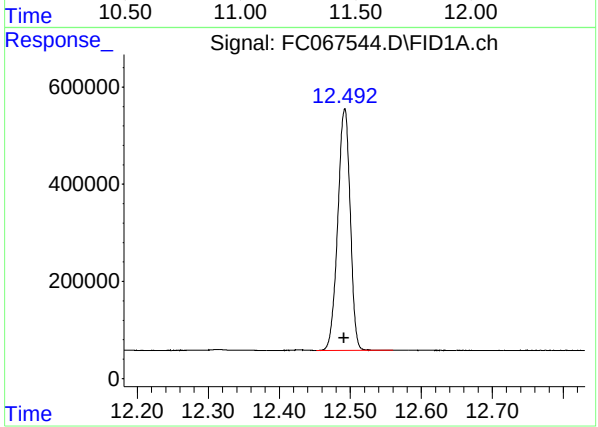
#8 n-Octadecane (C18)

R.T.: 11.185 min
Delta R.T.: 0.001 min
Response: 5888876
Conc: 44.57 ug/ml



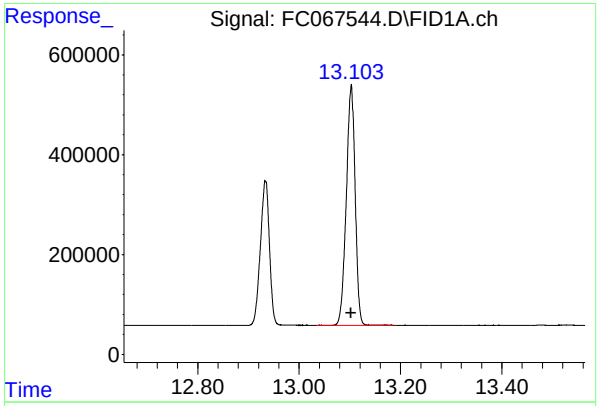
#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.494 min
Response: 0
Conc: N.D.



#10 n-Eicosane (C20)

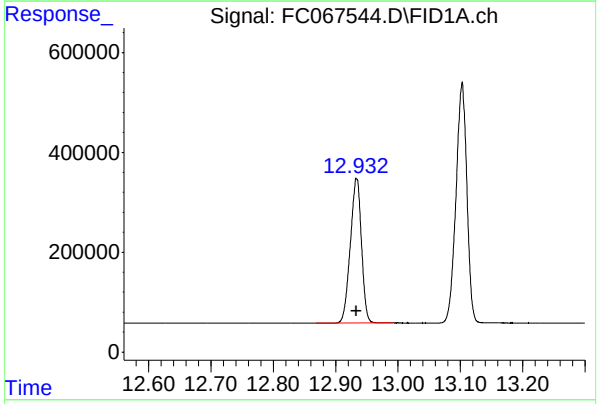
R.T.: 12.492 min
Delta R.T.: 0.001 min
Response: 6062286
Conc: 48.05 ug/ml



#11 n-Heneicosane (C21)

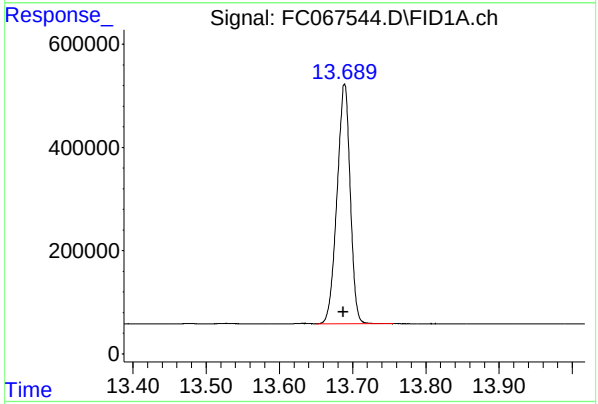
R.T.: 13.103 min
Delta R.T.: 0.000 min
Response: 5848643
Conc: 47.39 ug/ml

Instrument :
FID_C
ClientSampleId :
PB164396BSD



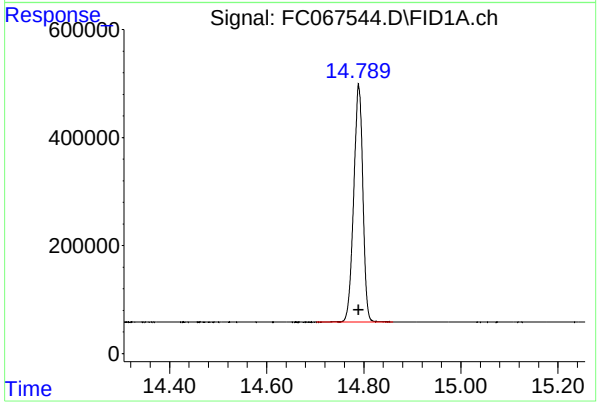
#12 1-chlorooctadecane (SURR)

R.T.: 12.934 min
Delta R.T.: 0.000 min
Response: 3597357
Conc: 33.31 ug/ml



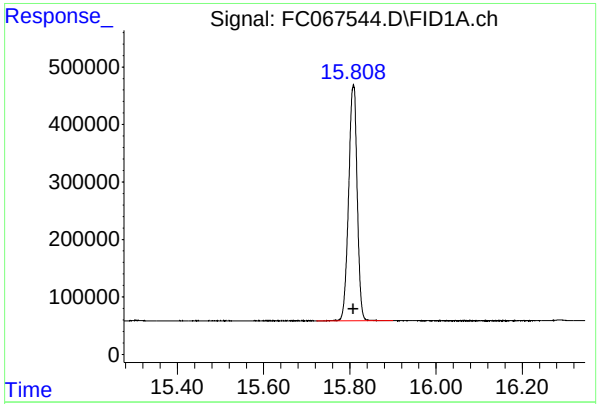
#13 n-Docosane (C22)

R.T.: 13.689 min
Delta R.T.: 0.002 min
Response: 5811528
Conc: 47.46 ug/ml



#14 n-Tetracosane (C24)

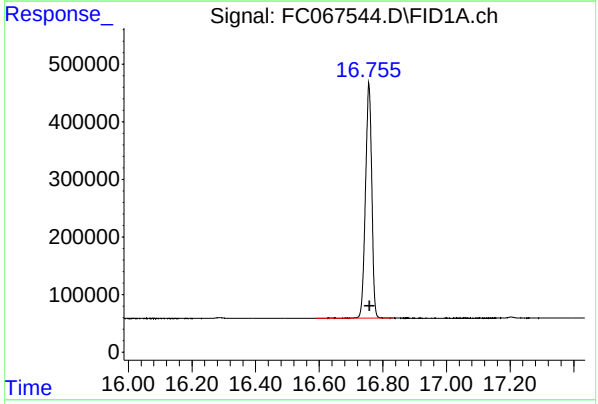
R.T.: 14.790 min
Delta R.T.: 0.000 min
Response: 5730338
Conc: 47.28 ug/ml



#15 n-Hexacosane (C26)

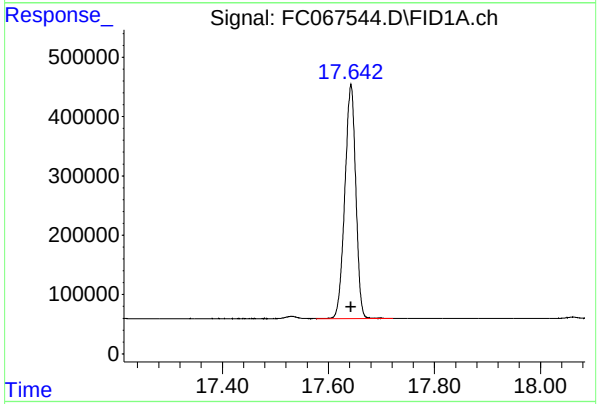
R.T.: 15.808 min
Delta R.T.: 0.000 min
Response: 5648112
Conc: 47.44 ug/ml

Instrument :
FID_C
ClientSampleId :
PB164396BSD



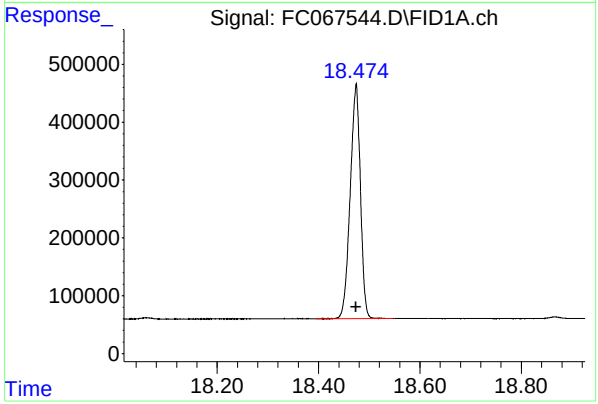
#16 n-Octacosane (C28)

R.T.: 16.756 min
Delta R.T.: -0.002 min
Response: 5580371
Conc: 47.43 ug/ml



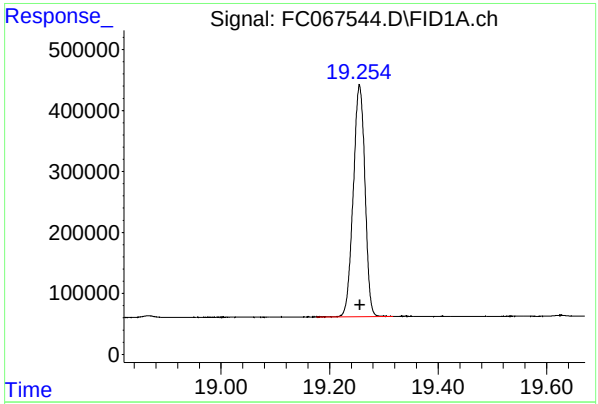
#17 n-Tricontane (C30)

R.T.: 17.642 min
Delta R.T.: 0.000 min
Response: 5647587
Conc: 46.72 ug/ml



#18 n-Dotriacontane (C32)

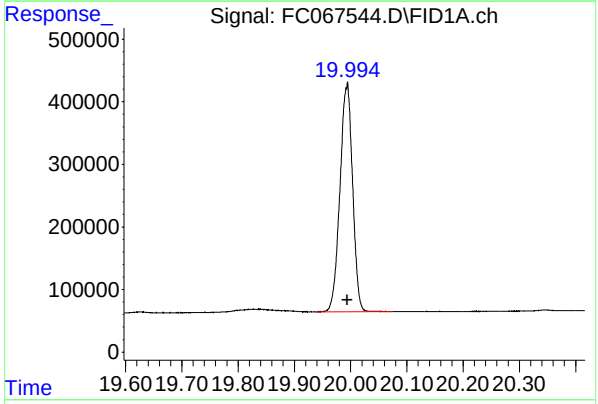
R.T.: 18.474 min
Delta R.T.: 0.000 min
Response: 5648824
Conc: 47.74 ug/ml



#19 n-Tetratriacontane (C34)

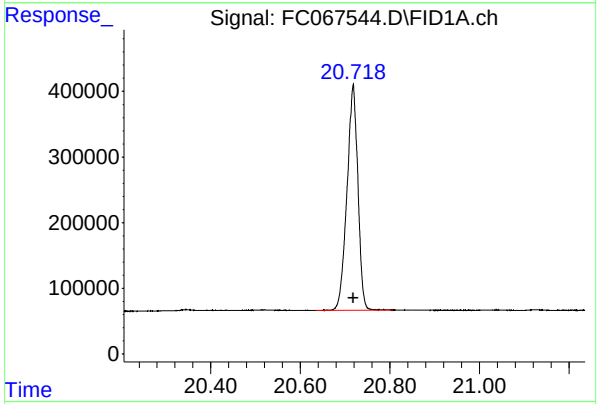
R.T.: 19.255 min
Delta R.T.: -0.001 min
Response: 5693761
Conc: 54.37 ug/ml

Instrument :
FID_C
ClientSampleId :
PB164396BSD



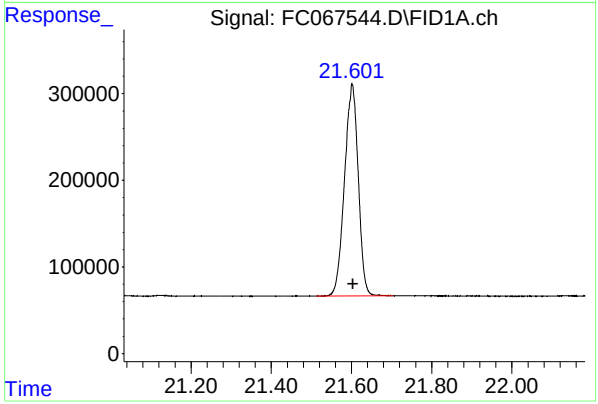
#20 n-Hexatriacontane (C36)

R.T.: 19.993 min
Delta R.T.: -0.001 min
Response: 5692288
Conc: 62.53 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 20.718 min
Delta R.T.: 0.000 min
Response: 5810218
Conc: 67.09 ug/ml



#22 n-Tetracontane (C40)

R.T.: 21.602 min
Delta R.T.: -0.001 min
Response: 5814733
Conc: 68.40 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC102824AL\
Data File : FC067544.D
Signal(s) : FID1A.ch
Acq On : 28 Oct 2024 15:50
Sample : PB164396BSD
Misc :
ALS Vial : 20 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 102324.M
Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.274	3.245	3.325	BB	372537	3167092	52.24%	3.148%
2	4.339	4.282	4.368	BV	426897	3871535	63.86%	3.848%
3	6.355	6.290	6.423	BV	447306	4478245	73.87%	4.451%
4	8.147	8.083	8.218	BB	461712	5045421	83.23%	5.014%
5	9.745	9.707	9.830	BB	505665	5583220	92.10%	5.549%
6	11.185	11.145	11.300	PB	506068	5888876	97.14%	5.853%
7	12.492	12.452	12.560	PB	497016	6062286	100.00%	6.025%
8	12.934	12.868	12.992	BB	289571	3597357	59.34%	3.575%
9	13.103	13.033	13.185	BB	485045	5848643	96.48%	5.813%
10	13.689	13.650	13.755	VB	465441	5811528	95.86%	5.776%
11	14.790	14.702	14.860	BB	436163	5730338	94.52%	5.695%
12	15.808	15.722	15.900	BB	410552	5648112	93.17%	5.613%
13	16.756	16.590	16.832	BB	404908	5580371	92.05%	5.546%
14	17.642	17.577	17.722	BB	394524	5647587	93.16%	5.613%
15	18.474	18.395	18.547	BB	401973	5648824	93.18%	5.614%
16	19.255	19.175	19.317	BB	380348	5693761	93.92%	5.659%
17	19.993	19.938	20.075	VB	359428	5692288	93.90%	5.657%
18	20.718	20.635	20.807	BB	346170	5810218	95.84%	5.774%
19	21.602	21.512	21.703	BB	244188	5814733	95.92%	5.779%

Sum of corrected areas: 100620434

Aliphatic EPH 102324.M Tue Oct 29 05:01:25 2024

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

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	
Project:	NJ Soil PT	Date Received:	
Client Sample ID:	PB164396BSD	SDG No.:	P4495
Lab Sample ID:	PB164396BSD	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	100
Sample Wt/Vol:	30.02 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FD048605.D	1	10/25/24	10/28/24	PB164396

CAS Number	Parameter		Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
Aromatic C10-C12	Aromatic C10-C12		5.03		0.30	0.67	mg/kg
Aromatic C12-C16	Aromatic C12-C16		8.57		0.34	1.00	mg/kg
Aromatic C16-C21	Aromatic C16-C21		18.3		0.96	1.67	mg/kg
Aromatic C21-C36	Aromatic C21-C36		27.3		2.00	2.66	mg/kg
SURROGATES							
580-13-2	2-Bromonaphthalene (SURR)		50.7		40 - 140	101%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)		51.9		40 - 140	104%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)		41.7		40 - 140	83%	SPK: 50

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

Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	PB164396BSD	Acq On:	28 Oct 2024 15:08
Client Sample ID:	PB164396BSD	Operator:	YP/AJ
Data file:	FD048605.D	Misc:	
Instrument:	FID_D	ALS Vial:	68
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.094	5.812	13302714	75.497	200	ug/ml
Aromatic C12-C16	5.813	8.417	22794499	128.584	300	ug/ml
Aromatic C16-C21	8.418	12.677	44933158	274.263	500	ug/ml
Aromatic C21-C36	12.678	18.081	62657164	410.293	800	ug/ml
Aromatic EPH	4.094	18.081	143687535	888.636		ug/ml
ortho-Terphenyl (SURR)	11.258	11.258	7098045	41.67		ug/ml
2-Bromonaphthalene (SURR)	7.372	7.372	7693298	50.69		ug/ml
2-Flurobiphenyl (SURR)	8.222	8.222	5094272	51.88		ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD102824AR\
Data File : FD048605.D
Signal(s) : FID2B.ch
Acq On : 28 Oct 2024 15:08
Operator : YP/AJ
Sample : PB164396BSD
Misc :
ALS Vial : 68 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
PB164396BSD

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 10/29/2024
Supervised By :Ankita Jodhani 10/29/2024

Integration File: autoint1.e
Quant Time: Oct 29 00:22:48 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 18:14:59 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
4)	S 2-Bromonaphthalene (S...	7.372	7693298	50.688 ug/ml
	Spiked Amount 50.000		Recovery = 101.38%	
6)	S 2-Flurobiphenyl (SURR)	8.222	5094272	51.881 ug/ml
	Spiked Amount 50.000 Range 0 - 131		Recovery = 103.76%	
11)	S ortho-Terphenyl (SURR)	11.258	7098045	41.670 ug/ml
	Spiked Amount 50.000		Recovery = 83.34%	
	Target Compounds			
1)	T 1,2,3-Trimethylbenzen...	4.196	6228856	35.804 ug/mlm
2)	T Naphthalene (C11.7)	5.713	7066148	39.601 ug/ml
3)	T 2-Methylnaphthalene (...	6.759	7024435	39.272 ug/ml
5)	T Acenaphthylene (C15.06)	8.025	7638075	43.499 ug/ml
7)	T Acenaphthene (C15.5)	8.321	8131989	45.849 ug/ml
8)	T Flouorene (C16.55)	9.099	8412208	49.766 ug/ml
9)	T Phenanthrene (C19.36)	10.487	8610149	52.086 ug/ml
10)	T Anthracene (C19.43)	10.562	8775430	54.877 ug/ml
12)	T Fluoranthene (C21.85)	12.291	8834256	53.679 ug/mlm
13)	T Pyrene (C20.8)	12.585	9150056	56.805 ug/ml
14)	T Benzo[a]anthracene (C...	14.454	8098024	55.384 ug/ml
15)	T Chrysene (C27.41)	14.497	8160506	49.610 ug/ml
16)	T benzo[b]fluoranthene ...	16.003	7988590	52.546 ug/ml
17)	T Bnezo[k]fluoranthene ...	16.037	7877054	52.408 ug/ml
18)	T Benzo[a]pyrene (C31.34)	16.378	7618837	50.625 ug/ml
19)	T Indeno[1,2,3-cd]pyren...	17.745	8011869	61.404 ug/ml
20)	T Dibenz[a,h]anthracene...	17.783	7538753	46.325 ug/ml
21)	T Benzo[g,h,i]perylene ...	17.997	7363531	48.099 ug/ml

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

Quantitation Report (QT Reviewed)

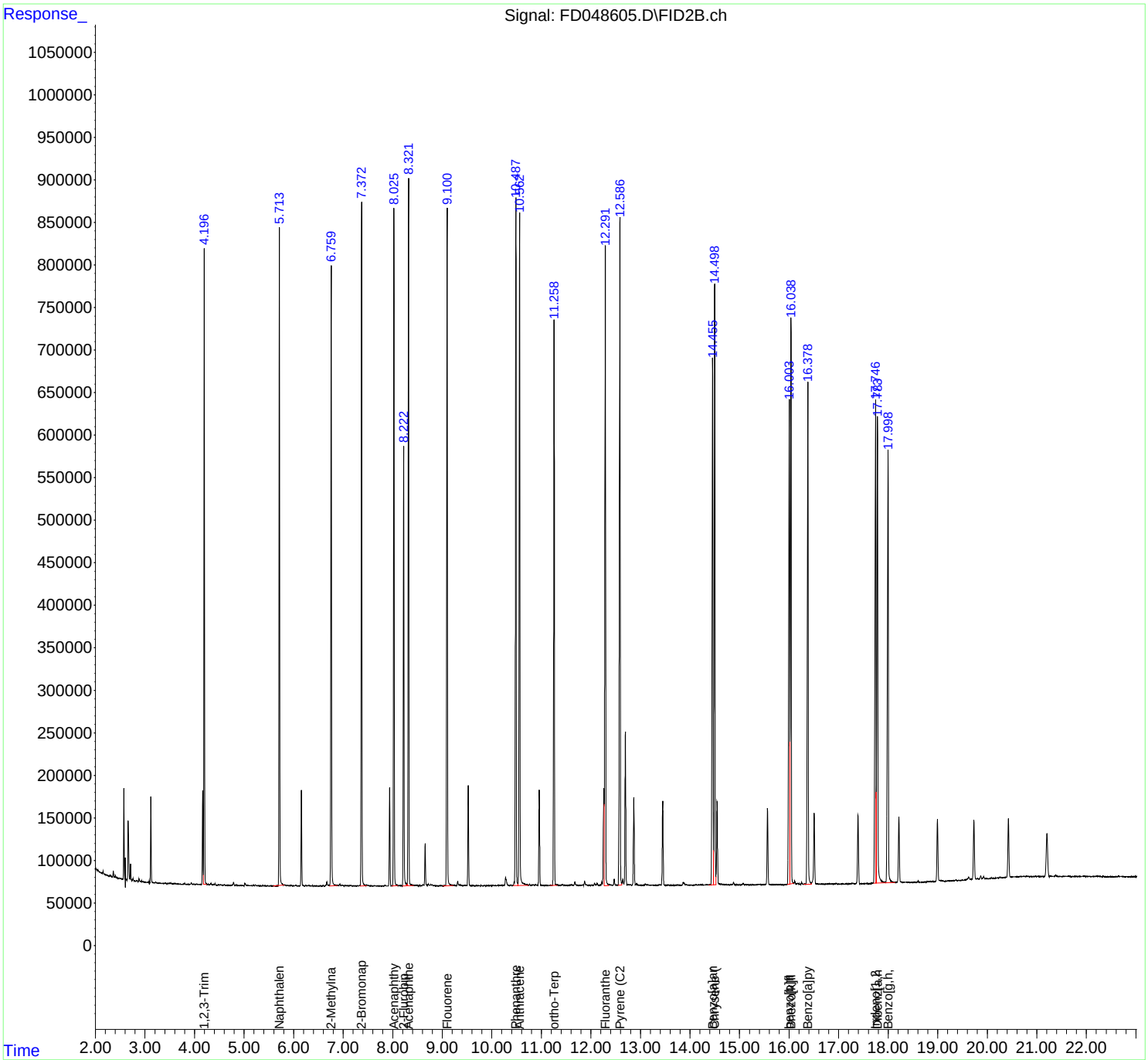
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD102824AR\
Data File : FD048605.D
Signal(s) : FID2B.ch
Acq On : 28 Oct 2024 15:08
Operator : YP/AJ
Sample : PB164396BSD
Misc :
ALS Vial : 68 Sample Multiplier: 1

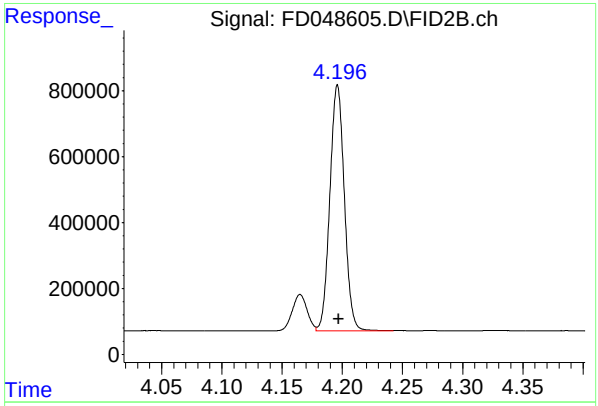
Integration File: autoint1.e
Quant Time: Oct 29 00:22:48 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 18:14:59 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

Instrument :
FID_D
ClientSampleId :
PB164396BSD

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 10/29/2024
Supervised By :Ankita Jodhani 10/29/2024





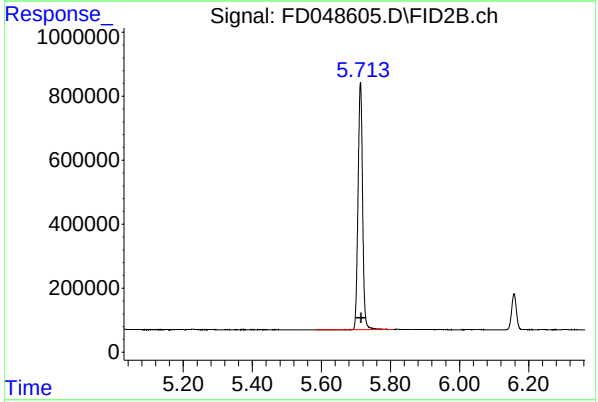
#1 1,2,3-Trimethylbenzene (C10.1)

R.T.: 4.196 min
Delta R.T.: -0.001 min
Response: 6228856
Conc: 35.80 ug/ml

Instrument :
FID_D
ClientSampleId :
PB164396BSD

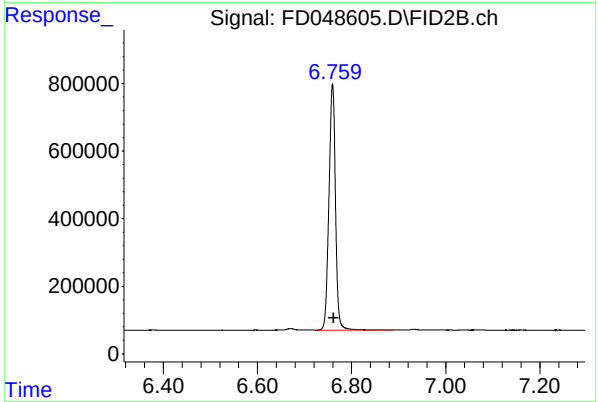
Manual Integrations APPROVED

Reviewed By :Yogesh Patel 10/29/2024
Supervised By :Ankita Jodhani 10/29/2024



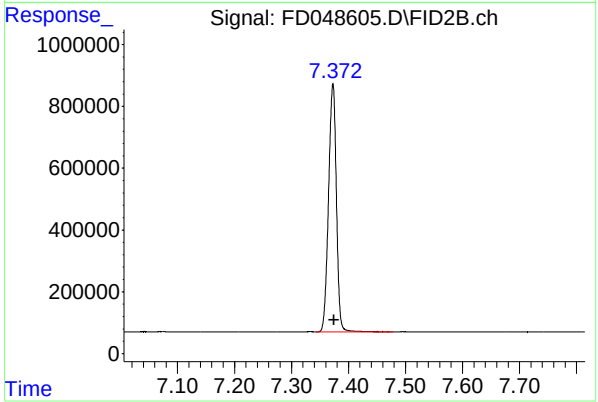
#2 Naphthalene (C11.7)

R.T.: 5.713 min
Delta R.T.: -0.003 min
Response: 7066148
Conc: 39.60 ug/ml



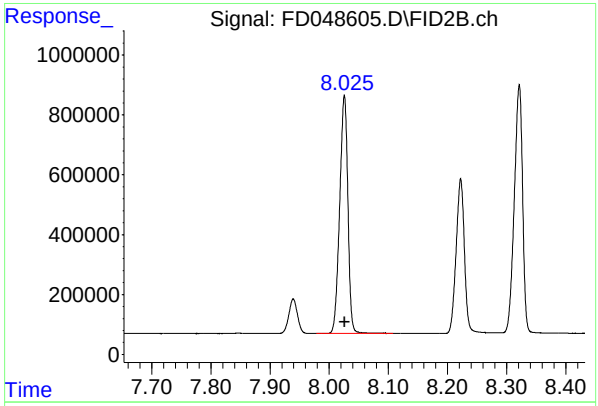
#3 2-Methylnaphthalene (C12.89)

R.T.: 6.759 min
Delta R.T.: -0.003 min
Response: 7024435
Conc: 39.27 ug/ml



#4 2-Bromonaphthalene (SURR)

R.T.: 7.372 min
Delta R.T.: -0.002 min
Response: 7693298
Conc: 50.69 ug/ml



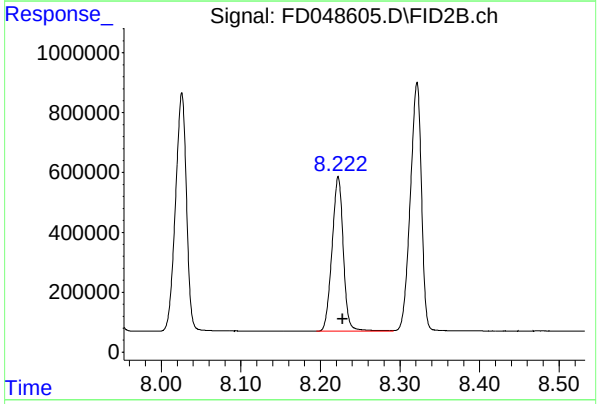
#5 Acenaphthylene (C15.06)

R.T.: 8.025 min
Delta R.T.: 0.000 min
Response: 7638075
Conc: 43.50 ug/ml

Instrument :
FID_D
ClientSampleId :
PB164396BSD

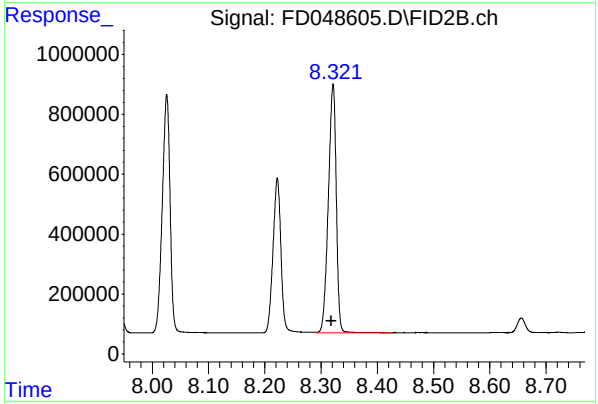
Manual Integrations APPROVED

Reviewed By :Yogesh Patel 10/29/2024
Supervised By :Ankita Jodhani 10/29/2024



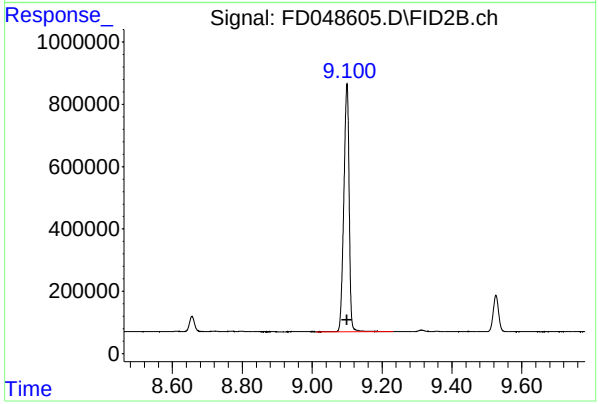
#6 2-Flurobiphenyl (SURR)

R.T.: 8.222 min
Delta R.T.: -0.006 min
Response: 5094272
Conc: 51.88 ug/ml



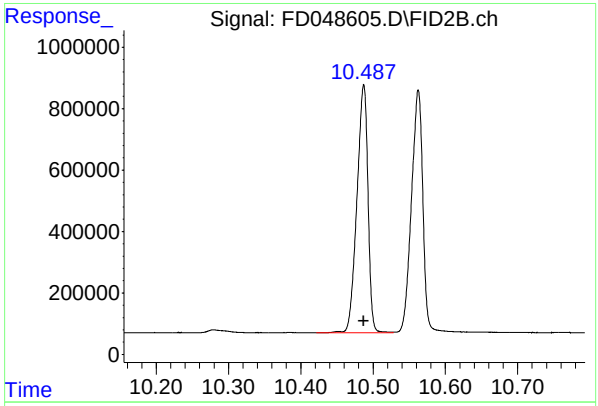
#7 Acenaphthene (C15.5)

R.T.: 8.321 min
Delta R.T.: 0.002 min
Response: 8131989
Conc: 45.85 ug/ml



#8 Flouorene (C16.55)

R.T.: 9.099 min
Delta R.T.: -0.001 min
Response: 8412208
Conc: 49.77 ug/ml



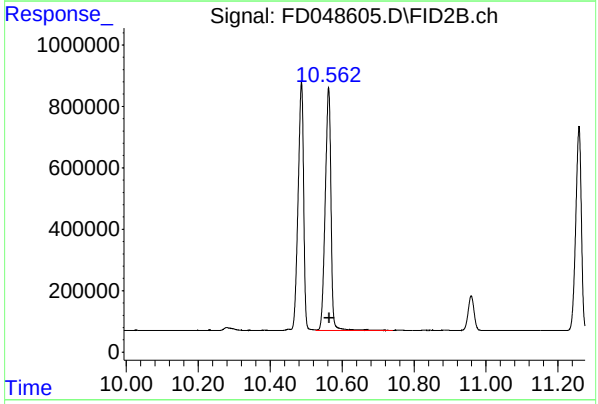
#9 Phenanthrene (C19.36)

R.T.: 10.487 min
Delta R.T.: 0.000 min
Response: 8610149
Conc: 52.09 ug/ml

Instrument :
FID_D
ClientSampleId :
PB164396BSD

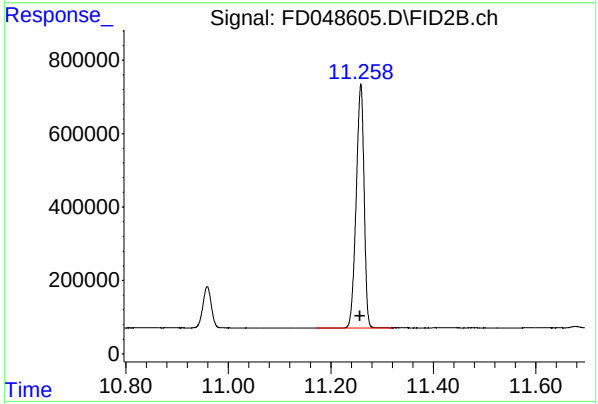
Manual Integrations APPROVED

Reviewed By :Yogesh Patel 10/29/2024
Supervised By :Ankita Jodhani 10/29/2024



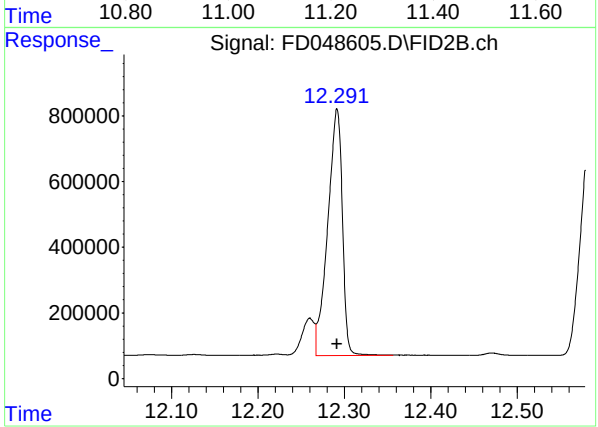
#10 Anthracene (C19.43)

R.T.: 10.562 min
Delta R.T.: -0.002 min
Response: 8775430
Conc: 54.88 ug/ml



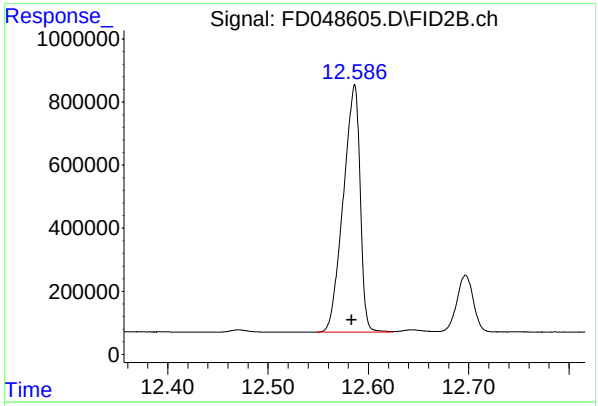
#11 ortho-Terphenyl (SURR)

R.T.: 11.258 min
Delta R.T.: 0.001 min
Response: 7098045
Conc: 41.67 ug/ml



#12 Fluoranthene (C21.85)

R.T.: 12.291 min
Delta R.T.: 0.000 min
Response: 8834256
Conc: 53.68 ug/ml m



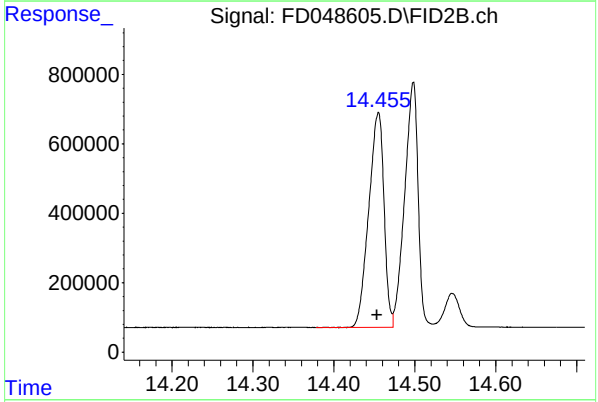
#13 Pyrene (C20.8)

R.T.: 12.585 min
Delta R.T.: 0.002 min
Response: 9150056
Conc: 56.81 ug/ml

Instrument :
FID_D
ClientSampleId :
PB164396BSD

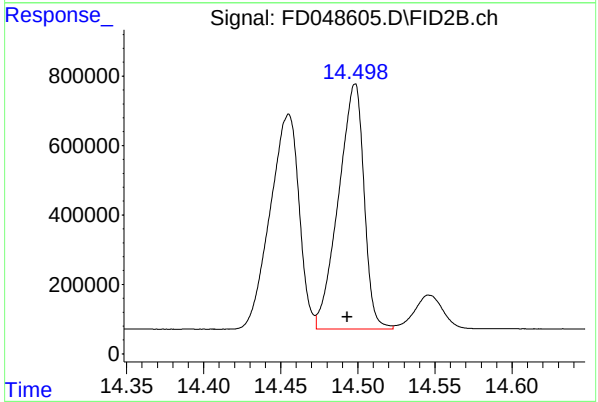
Manual Integrations APPROVED

Reviewed By :Yogesh Patel 10/29/2024
Supervised By :Ankita Jodhani 10/29/2024



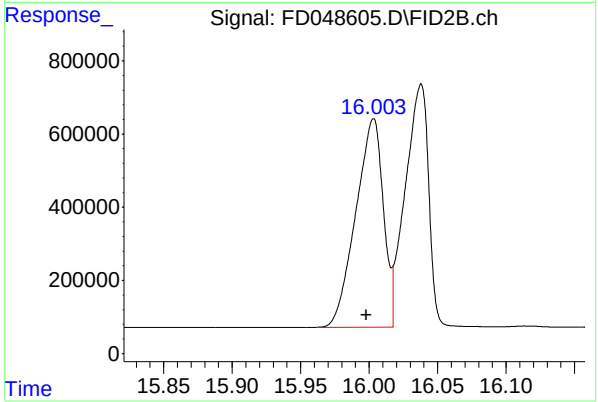
#14 Benzo[a]anthracene (C26.37)

R.T.: 14.454 min
Delta R.T.: 0.001 min
Response: 8098024
Conc: 55.38 ug/ml



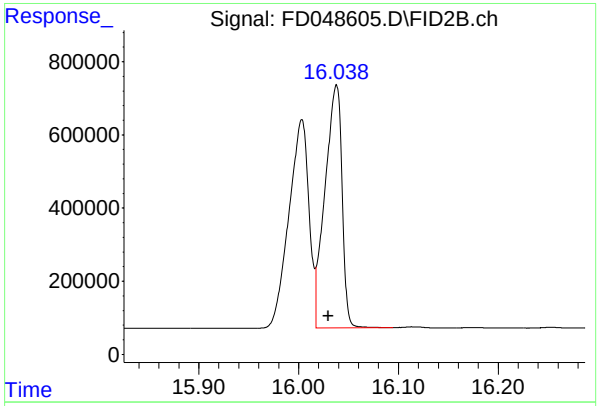
#15 Chrysene (C27.41)

R.T.: 14.497 min
Delta R.T.: 0.004 min
Response: 8160506
Conc: 49.61 ug/ml



#16 benzo[b]fluoranthene (C30.41)

R.T.: 16.003 min
Delta R.T.: 0.005 min
Response: 7988590
Conc: 52.55 ug/ml



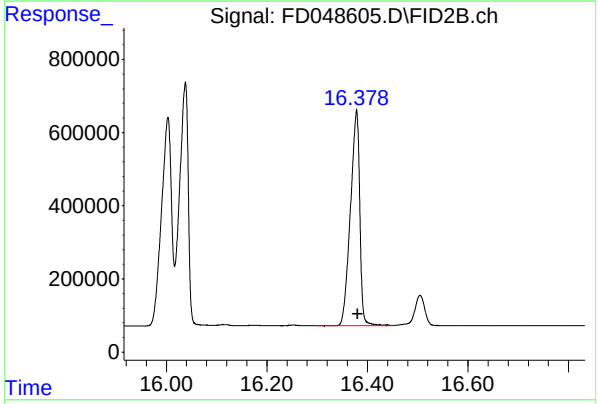
#17 Bnezo[k]fluoranthene (C30.14)

R.T.: 16.037 min
Delta R.T.: 0.007 min
Response: 7877054
Conc: 52.41 ug/ml

Instrument :
FID_D
ClientSampleId :
PB164396BSD

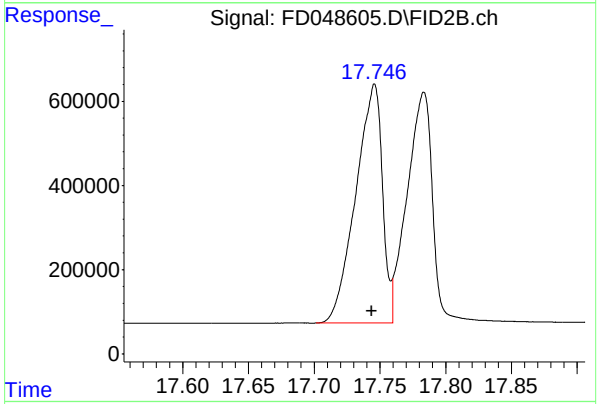
Manual Integrations APPROVED

Reviewed By :Yogesh Patel 10/29/2024
Supervised By :Ankita Jodhani 10/29/2024



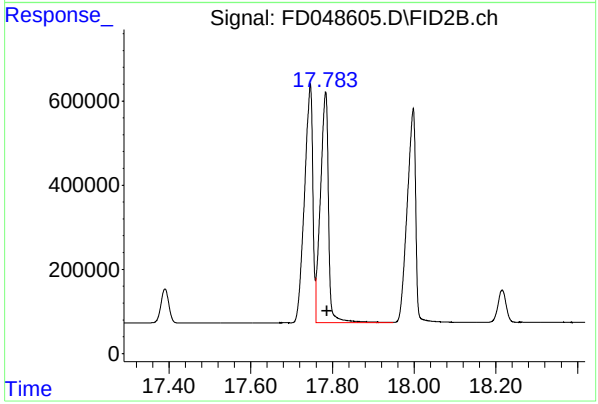
#18 Benzo[a]pyrene (C31.34)

R.T.: 16.378 min
Delta R.T.: -0.003 min
Response: 7618837
Conc: 50.63 ug/ml



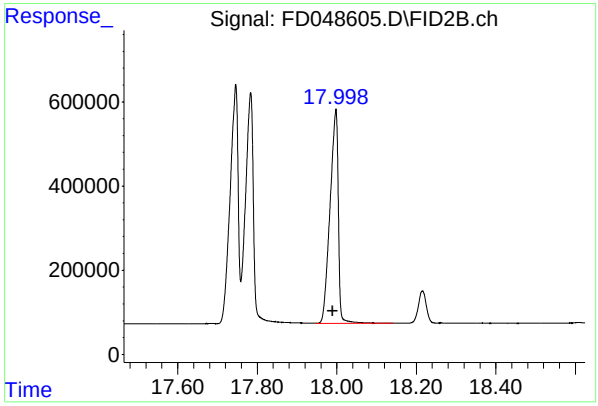
#19 Indeno[1,2,3-cd]pyrene (C35.01)

R.T.: 17.745 min
Delta R.T.: 0.001 min
Response: 8011869
Conc: 61.40 ug/ml



#20 Dibenz[a,h]anthracene (C30.36)

R.T.: 17.783 min
Delta R.T.: -0.004 min
Response: 7538753
Conc: 46.33 ug/ml



#21 Benzo[g,h,i]perylene (C34.01)

R.T.: 17.997 min
Delta R.T.: 0.007 mi
Response: 7363531
Conc: 48.10 ug/m

Instrument :
FID_D
ClientSampleId :
PB164396BSD

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/29/2024
Supervised By :Ankita Jodhani 10/29/2024

Instrument :
FID_D
ClientSampleId :
PB164396BSD

rteres

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 10/29/2024
Supervised By :Ankita Jodhani 10/29/2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD10282
Data File : FD048605.D
Signal(s) : FID2B.ch
Acq On : 28 Oct 2024 15:08
Sample : PB164396BSD
Misc :
ALS Vial : 68 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 102324.M
Title : GC Extractables

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.196	4.178	4.262	M	747803	6236566	62.46%	3.813%
2	5.713	5.585	5.807	BV	776663	7066148	70.77%	4.320%
3	6.759	6.725	6.888	VB	722037	7024435	70.35%	4.294%
4	7.372	7.343	7.478	VV	794235	7693298	77.05%	4.703%
5	8.025	7.978	8.108	PV	787842	7638075	76.49%	4.670%
6	8.222	8.195	8.291	PV	511208	5094272	51.02%	3.114%
7	8.321	8.291	8.428	VB	832678	8131989	81.44%	4.971%
8	9.099	9.011	9.231	PB	785599	8412208	84.25%	5.143%
9	10.487	10.421	10.528	PV	817681	8610149	86.23%	5.264%
10	10.562	10.528	10.741	VV	785341	8775430	87.88%	5.365%
11	11.258	11.171	11.321	BV	660273	7098045	71.08%	4.339%
12	12.291	12.233	12.441	VB	751918	9985315	100.00%	6.104%
13	12.585	12.548	12.625	BV	769384	9150056	91.64%	5.594%
14	14.454	14.378	14.473	BV	618416	8098024	81.10%	4.951%
15	14.497	14.473	14.523	VV	711534	8160506	81.73%	4.989%
16	16.003	15.961	16.017	BV	565934	7988590	80.00%	4.884%
17	16.037	16.017	16.095	VV	669426	7877054	78.89%	4.816%
18	16.378	16.298	16.451	BV	587227	7618837	76.30%	4.658%
19	17.745	17.701	17.760	BV	561897	8011869	80.24%	4.898%
20	17.783	17.760	17.948	VV	541454	7538753	75.50%	4.609%
21	17.997	17.948	18.141	VB	514793	7363531	73.74%	4.502%

Sum of corrected areas: 163573149

Aromatic EPH 102324.M Tue Oct 29 05:19:39 2024

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

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	
Project:	NJ Soil PT	Date Received:	
Client Sample ID:	EX-5-TPH-5MS	SDG No.:	P4495
Lab Sample ID:	P4518-05MS	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	73.9
Sample Wt/Vol:	30.02 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
10/25/24 09:05	10/28/24 17:03	PB164396

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	42.9	E	1	0.51	1.35	mg/kg	FC067546.D
Aliphatic C12-C16	Aliphatic C12-C16	268	E	1	0.33	0.90	mg/kg	FC067546.D
Aliphatic C16-C21	Aliphatic C16-C21	304	E	1	0.41	1.35	mg/kg	FC067546.D
Aliphatic C21-C28	Aliphatic C21-C28	105	E	1	1.08	1.80	mg/kg	FC067546.D
Aliphatic C28-C40	Aliphatic C28-C40	126	E	1	2.43	2.70	mg/kg	FC067546.D
Aromatic C10-C12	Aromatic C10-C12	15.4		1	0.41	0.90	mg/kg	FD048607.D
Aromatic C12-C16	Aromatic C12-C16	85.4	E	1	0.46	1.35	mg/kg	FD048607.D
Aromatic C16-C21	Aromatic C16-C21	255	E	1	1.30	2.25	mg/kg	FD048607.D
Aromatic C21-C36	Aromatic C21-C36	90.4	E	1	2.70	3.61	mg/kg	FD048607.D
Total AliphaticEPH	Total AliphaticEPH	846			4.75	8.10	mg/kg	
Total AromaticEPH	Total AromaticEPH	446			4.87	8.11	mg/kg	
Total EPH	Total EPH	1290			9.62	16.2	mg/kg	

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

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

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

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	
Project:	NJ Soil PT	Date Received:	
Client Sample ID:	EX-5-TPH-5MS	SDG No.:	P4495
Lab Sample ID:	P4518-05MS	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	73.9
Sample Wt/Vol:	30.02 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FC067546.D	1	10/25/24	10/28/24	PB164396

CAS Number	Parameter		Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
Aliphatic C9-C12	Aliphatic C9-C12		42.9	E	0.51	1.35	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16		268	E	0.33	0.90	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21		304	E	0.41	1.35	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28		105	E	1.08	1.80	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40		126	E	2.43	2.70	mg/kg
SURROGATES							
3383-33-2	1-chlorooctadecane (SURR)		40.3		40 - 140	81%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)		0.00		40 - 140	0%	SPK: 50

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

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	P4518-05MS	Acq On:	28 Oct 2024 17:03
Client Sample ID:	EX-5-TPH-5MS	Operator:	YP/AJ
Data file:	FC067546.D	Misc:	
Instrument:	FID_C	ALS Vial:	22
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.173	6.453	64451302	475.762	300	ug/ml
Aliphatic C12-C16	6.454	9.842	392480875	2980	200	ug/ml
Aliphatic C16-C21	9.843	13.200	430197990	3380	300	ug/ml
Aliphatic C21-C28	13.201	16.853	141128618	1180	400	ug/ml
Aliphatic C28-C40	16.854	21.695	142127853	1410	600	ug/ml
Aliphatic EPH	3.173	21.695	1170386638	9420		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	12.937	12.937	4355427	40.33		ug/ml
Aliphatic C9-C28	3.173	16.853	1028258785	8010	1200	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC102824AL\
Data File : FC067546.D
Signal(s) : FID1A.ch
Acq On : 28 Oct 2024 17:03
Operator : YP/AJ
Sample : P4518-05MS
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
EX-5-TPH-5MS

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 12/05/2024
Supervised By :Ankita Jodhani 12/05/2024

Integration File: sample.E
Quant Time: Oct 30 03:43:41 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 18:12:58 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			
12) S	1-chlorooctadecane (S...	12.937	4355427	40.332 ug/mlm
Spiked Amount	50.000		Recovery =	80.66%
	Target Compounds			
1) T	n-Nonane (C9)	3.274	4547050	33.752 ug/ml
2) T	n-Decane (C10)	4.340	6074341	44.584 ug/ml
4) T	n-Dodecane (C12)	6.357	7407515	54.691 ug/mlm
6) T	n-Tetradecane (C14)	8.153	8870452	67.579 ug/mlm
7) T	n-Hexadecane (C16)	9.754	9234252	69.902 ug/mlm
8) T	n-Octadecane (C18)	11.193	9537788	72.194 ug/mlm
10) T	n-Eicosane (C20)	12.499	9191174	72.843 ug/mlm
11) T	n-Heneicosane (C21)	13.107	8078445	65.458 ug/mlm
13) T	n-Docosane (C22)	13.694	8140536	66.481 ug/mlm
14) T	n-Tetracosane (C24)	14.793	7876666	64.984 ug/mlm
15) T	n-Hexacosane (C26)	15.812	7809691	65.597 ug/mlm
16) T	n-Octacosane (C28)	16.760	7849686	66.722 ug/mlm
17) T	n-Tricontane (C30)	17.647	7677843	63.521 ug/mlm
18) T	n-Dotriacontane (C32)	18.477	7585388	64.109 ug/mlm
19) T	n-Tetratriacontane (C34)	19.258	8007761	76.463 ug/ml
20) T	n-Hexatriacontane (C36)	19.997	7735213	84.977 ug/ml
21) T	n-Octatriacontane (C38)	20.720	7594323	87.692 ug/ml
22) T	n-Tetracontane (C40)	21.605	7599497	89.395 ug/mlm

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

Quantitation Report (QT Reviewed)

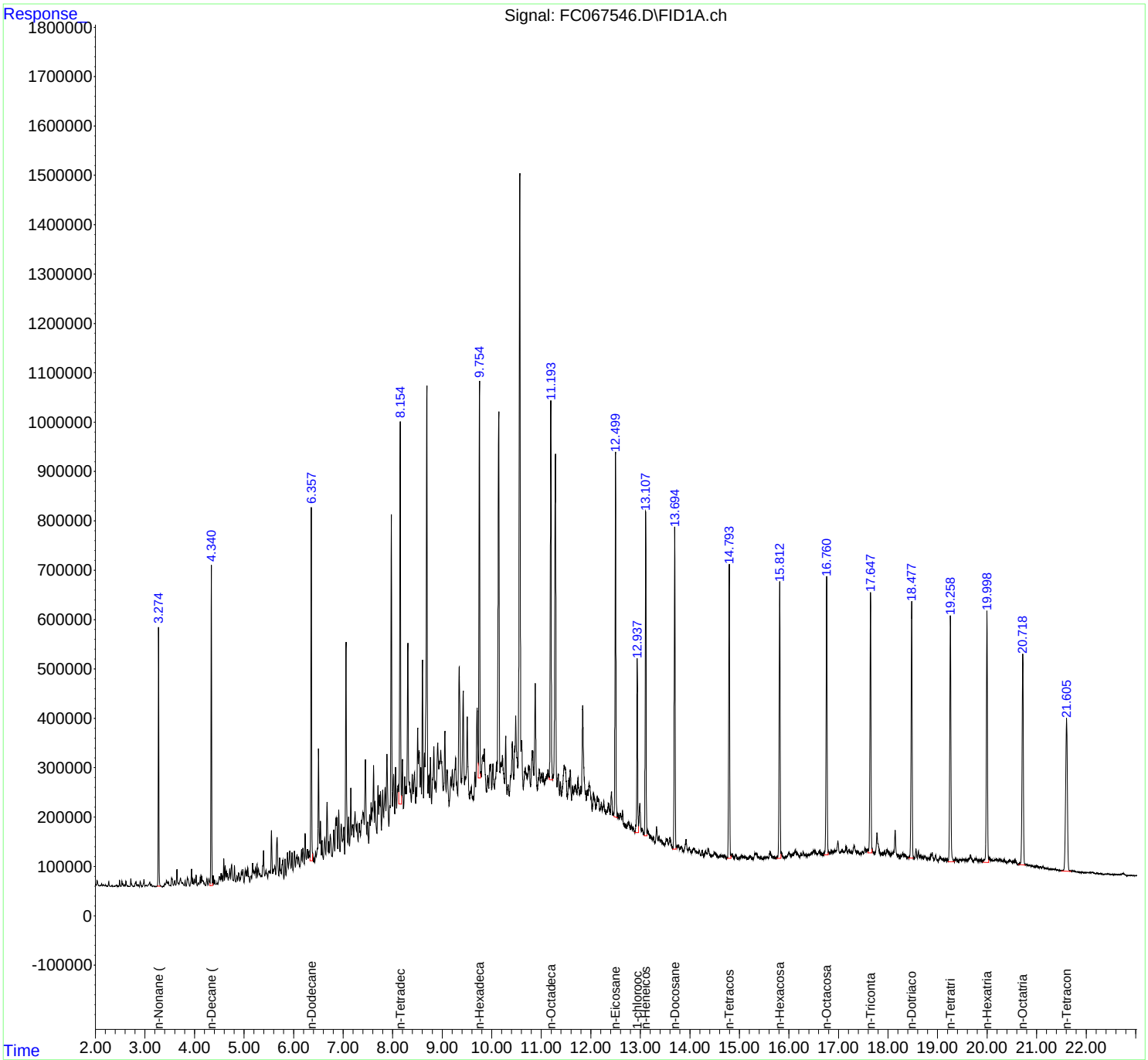
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC102824AL\
Data File : FC067546.D
Signal(s) : FID1A.ch
Acq On : 28 Oct 2024 17:03
Operator : YP/AJ
Sample : P4518-05MS
Misc :
ALS Vial : 22 Sample Multiplier: 1

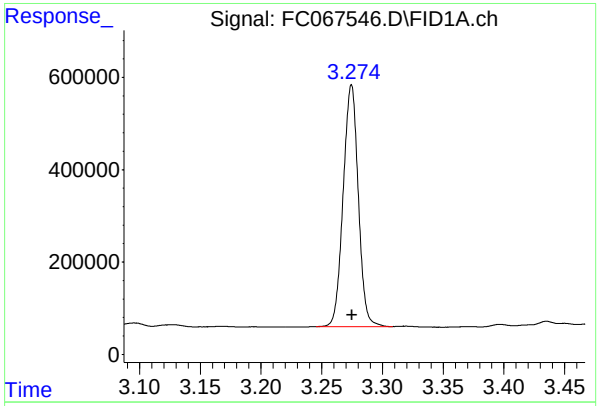
Instrument :
FID_C
ClientSampleId :
EX-5-TPH-5MS

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 12/05/2024
Supervised By :Ankita Jodhani 12/05/2024

Integration File: sample.E
Quant Time: Oct 30 03:43:41 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 18:12:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um





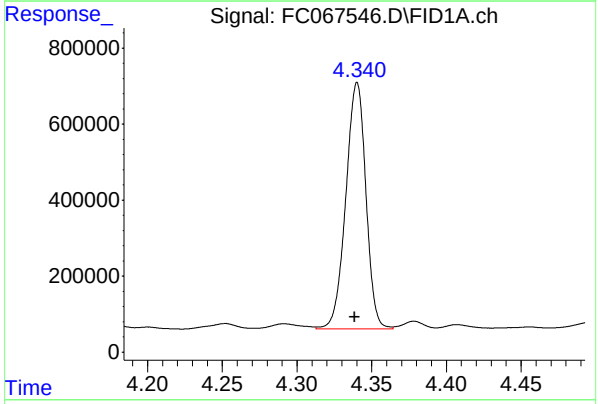
#1 n-Nonane (C9)

R.T.: 3.274 min
Delta R.T.: 0.000 mi
Response: 4547050
Conc: 33.75 ug/m

Instrument :
FID_C
ClientSampleId :
EX-5-TPH-5MS

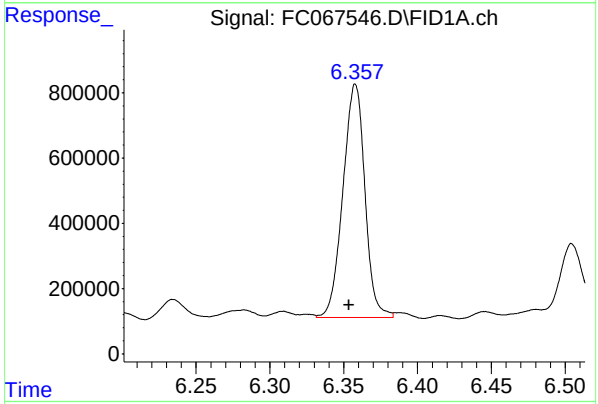
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/05/2024
Supervised By :Ankita Jodhani 12/05/2024



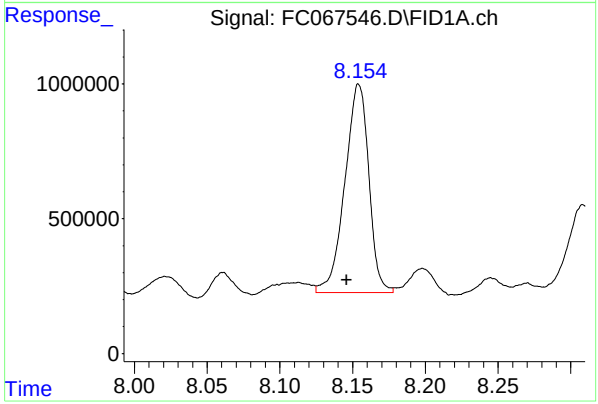
#2 n-Decane (C10)

R.T.: 4.340 min
Delta R.T.: 0.002 min
Response: 6074341
Conc: 44.58 ug/ml



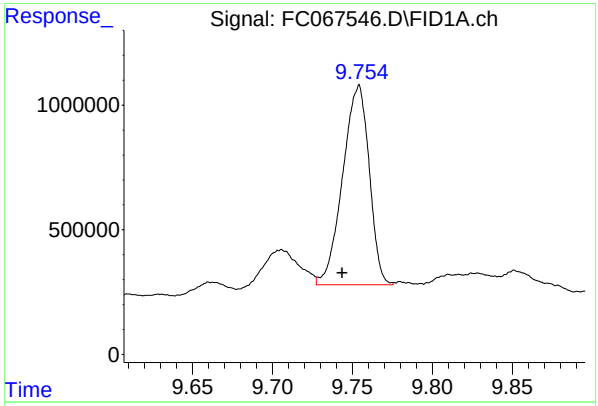
#4 n-Dodecane (C12)

R.T.: 6.357 min
Delta R.T.: 0.004 min
Response: 7407515
Conc: 54.69 ug/ml m



#6 n-Tetradecane (C14)

R.T.: 8.153 min
Delta R.T.: 0.007 min
Response: 8870452
Conc: 67.58 ug/ml m



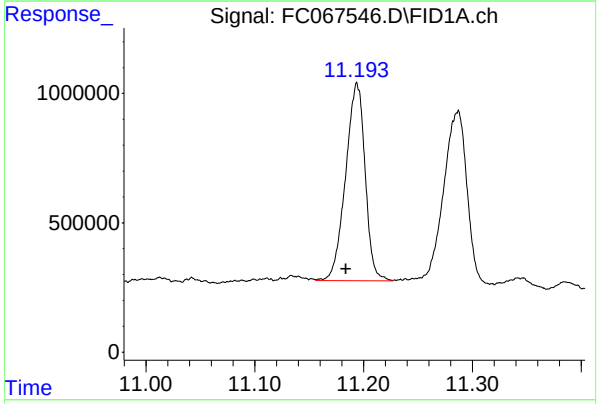
#7 n-Hexadecane (C16)

R.T.: 9.754 min
Delta R.T.: 0.010 mi
Response: 9234252
Conc: 69.90 ug/m

Instrument :
FID_C
ClientSampleId :
EX-5-TPH-5MS

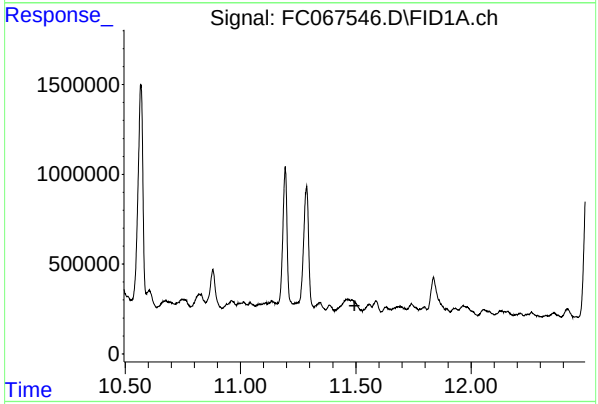
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/05/2024
Supervised By :Ankita Jodhani 12/05/2024



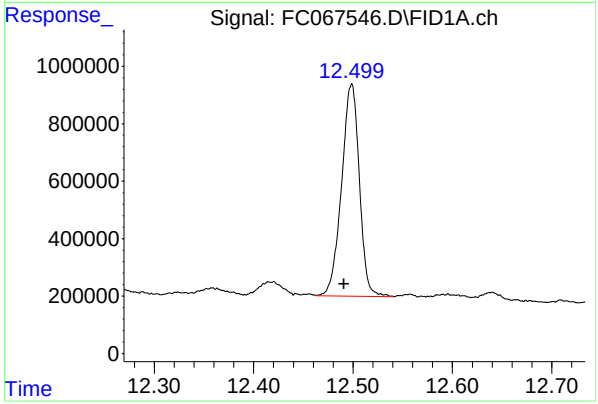
#8 n-Octadecane (C18)

R.T.: 11.193 min
Delta R.T.: 0.010 min
Response: 9537788
Conc: 72.19 ug/ml m



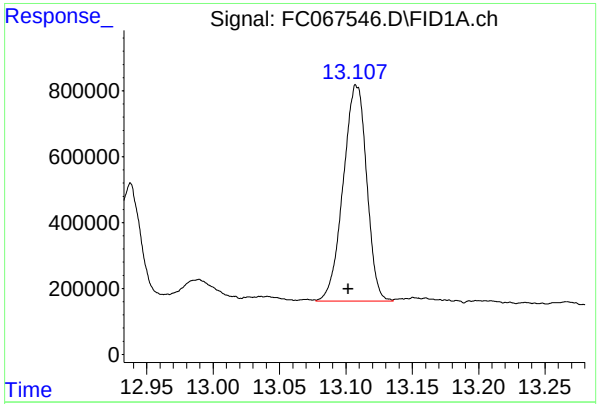
#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.494 min
Response: 0
Conc: N.D.



#10 n-Eicosane (C20)

R.T.: 12.499 min
Delta R.T.: 0.008 min
Response: 9191174
Conc: 72.84 ug/ml m



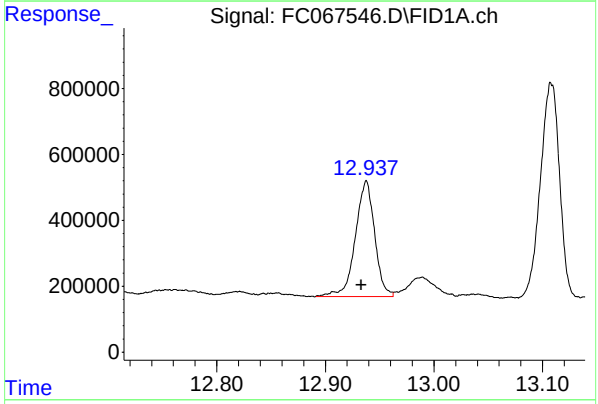
#11 n-Heneicosane (C21)

R.T.: 13.107 min
Delta R.T.: 0.005 mi
Response: 8078445
Conc: 65.46 ug/m

Instrument :
FID_C
ClientSampleId :
EX-5-TPH-5MS

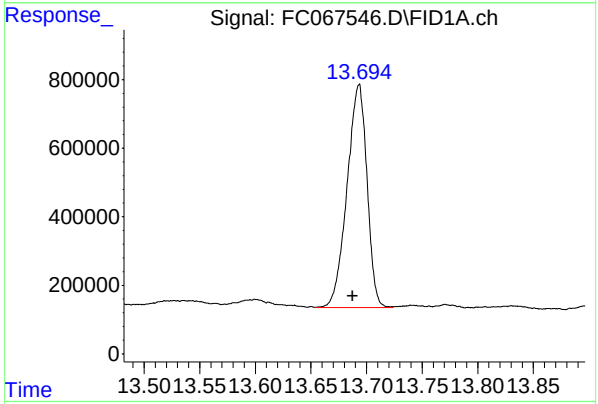
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/05/2024
Supervised By :Ankita Jodhani 12/05/2024



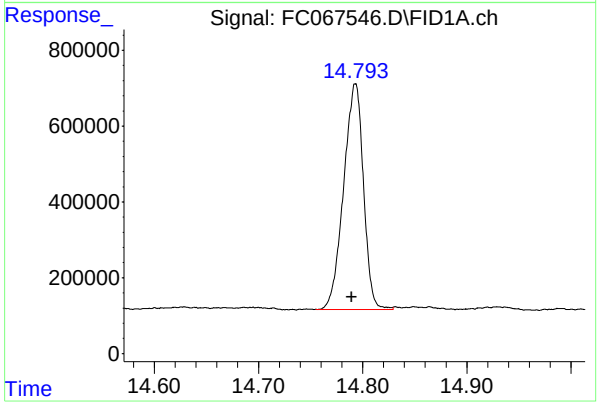
#12 1-chlorooctadecane (SURR)

R.T.: 12.937 min
Delta R.T.: 0.004 min
Response: 4355427
Conc: 40.33 ug/ml m



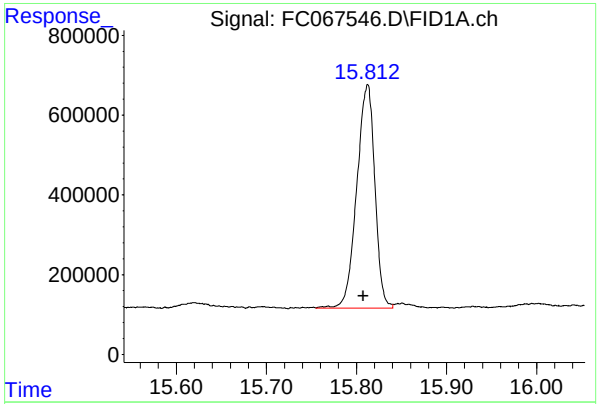
#13 n-Docosane (C22)

R.T.: 13.694 min
Delta R.T.: 0.006 min
Response: 8140536
Conc: 66.48 ug/ml m



#14 n-Tetracosane (C24)

R.T.: 14.793 min
Delta R.T.: 0.004 min
Response: 7876666
Conc: 64.98 ug/ml m



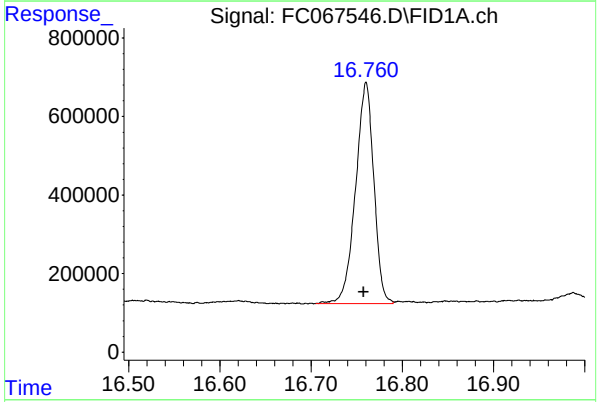
#15 n-Hexacosane (C26)

R.T.: 15.812 min
Delta R.T.: 0.004 mi
Response: 7809691
Conc: 65.60 ug/m

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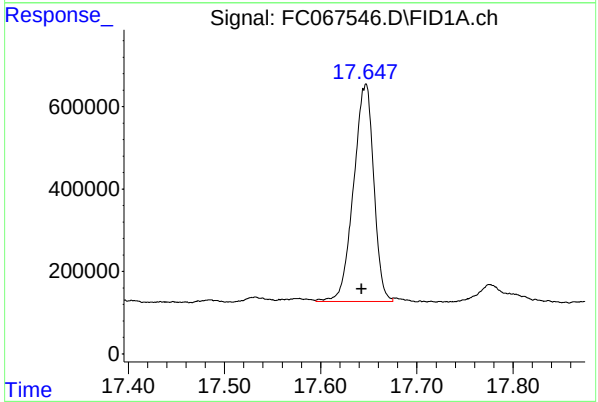
Manual Integrations
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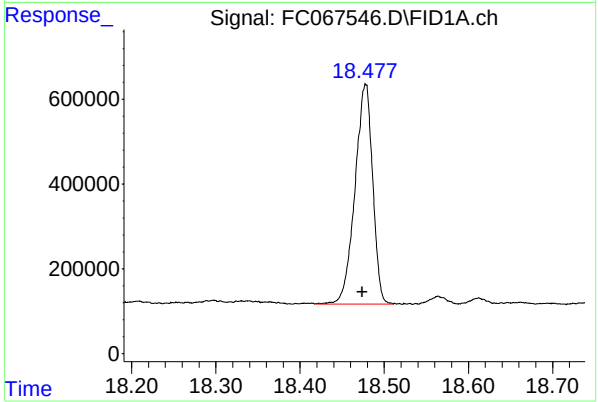
#16 n-Octacosane (C28)

R.T.: 16.760 min
Delta R.T.: 0.002 min
Response: 7849686
Conc: 66.72 ug/ml m



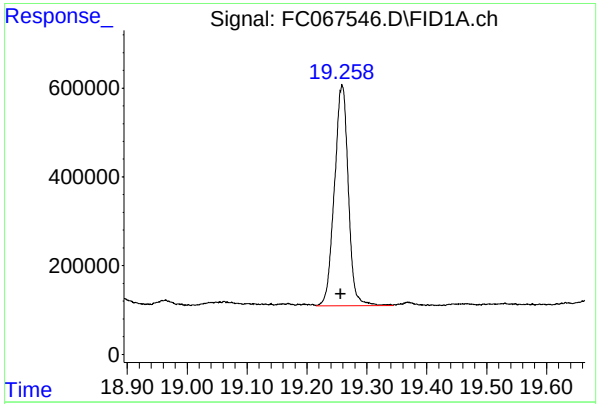
#17 n-Tricontane (C30)

R.T.: 17.647 min
Delta R.T.: 0.004 min
Response: 7677843
Conc: 63.52 ug/ml m



#18 n-Dotriacontane (C32)

R.T.: 18.477 min
Delta R.T.: 0.003 min
Response: 7585388
Conc: 64.11 ug/ml m



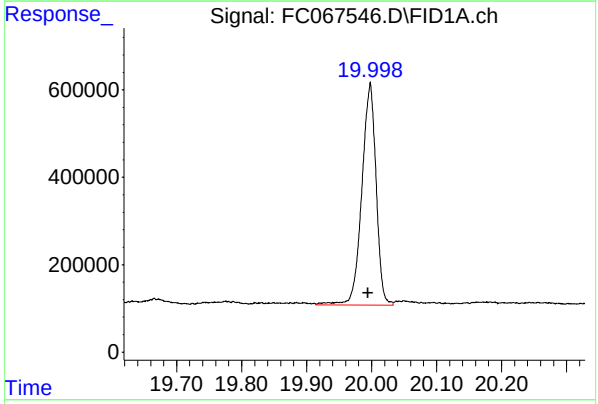
#19 n-Tetratriacontane (C34)

R.T.: 19.258 min
Delta R.T.: 0.002 mi
Response: 8007761
Conc: 76.46 ug/m

Instrument :
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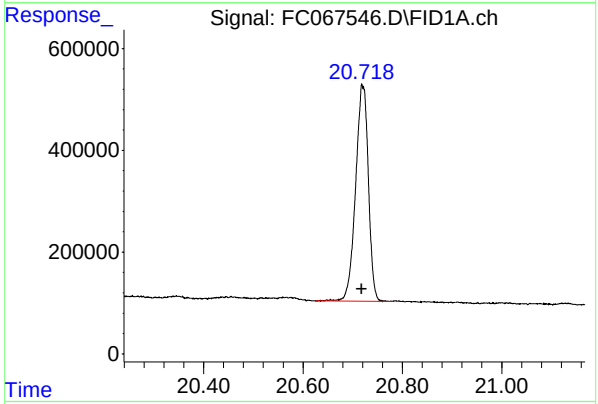
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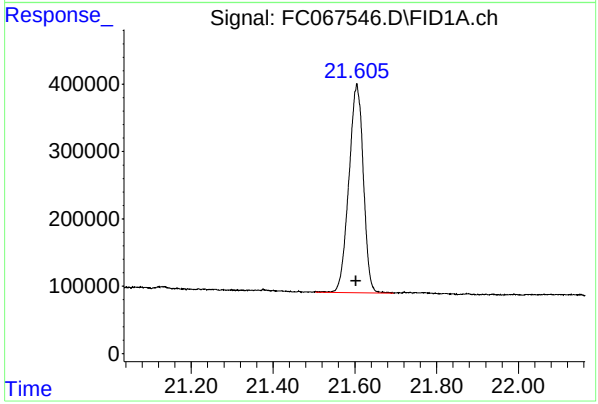
#20 n-Hexatriacontane (C36)

R.T.: 19.997 min
Delta R.T.: 0.003 min
Response: 7735213
Conc: 84.98 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 20.720 min
Delta R.T.: 0.002 min
Response: 7594323
Conc: 87.69 ug/ml



#22 n-Tetracontane (C40)

R.T.: 21.605 min
Delta R.T.: 0.001 min
Response: 7599497
Conc: 89.39 ug/ml m

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Area Percent Report

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Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC10282
Data File : FC067546.D
Signal(s) : FID1A.ch
Acq On : 28 Oct 2024 17:03
Sample : P4518-05MS
Misc :
ALS Vial : 22 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 102324.M
Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.168	3.154	3.185	PH	-26831	-498064	-1.88%	-0.042%
2	3.193	3.185	3.206	PV	-16064	-180546	-0.68%	-0.015%
3	3.221	3.206	3.232	PV	510	4197	0.02%	0.000%
4	3.274	3.232	3.309	VV	525289	4588595	17.28%	0.389%
5	3.319	3.309	3.350	VV	2114	24092	0.09%	0.002%
6	3.371	3.350	3.380	PV	1305	12057	0.05%	0.001%
7	3.397	3.380	3.409	VV	6095	60058	0.23%	0.005%
8	3.435	3.409	3.461	VV	12693	229378	0.86%	0.019%
9	3.474	3.461	3.496	VV	9491	118382	0.45%	0.010%
10	3.510	3.496	3.520	VV	2819	28763	0.11%	0.002%
11	3.539	3.520	3.574	VV	17393	303842	1.14%	0.026%
12	3.600	3.574	3.620	VV	11916	174923	0.66%	0.015%
13	3.645	3.620	3.687	VV	34630	468019	1.76%	0.040%
14	3.717	3.687	3.792	VV	17516	503516	1.90%	0.043%
15	3.810	3.792	3.830	VV	11593	110743	0.42%	0.009%
16	3.858	3.830	3.904	VV	17847	353705	1.33%	0.030%
17	3.940	3.904	3.956	PV	34843	406396	1.53%	0.034%
18	3.968	3.956	3.985	VV	15005	160599	0.60%	0.014%
19	4.001	3.985	4.017	VV	14421	175907	0.66%	0.015%
20	4.034	4.017	4.055	VV	22633	240391	0.91%	0.020%
21	4.075	4.055	4.089	VV	6761	86251	0.32%	0.007%
22	4.117	4.089	4.129	VV	18869	235415	0.89%	0.020%
23	4.144	4.129	4.193	VV	20497	418294	1.58%	0.035%
24	4.200	4.193	4.223	VV	5876	57340	0.22%	0.005%
25	4.252	4.223	4.271	VV	15002	205741	0.77%	0.017%
26	4.292	4.271	4.313	VV	14393	212769	0.80%	0.018%
27	4.340	4.313	4.364	VV	652179	6097226	22.97%	0.517%
28	4.378	4.364	4.394	VV	21041	210857	0.79%	0.018%
29	4.407	4.394	4.431	VV	11742	151631	0.57%	0.013%
30	4.456	4.431	4.469	VV	5554	93301	0.35%	0.008%
31	4.502	4.469	4.520	VV	18506	381718	1.44%	0.032%
32	4.536	4.520	4.550	VV	25562	331982	1.25%	0.028%
33	4.562	4.550	4.576	VV	20355	247081	0.93%	0.021%
34	4.592	4.576	4.606	VV	55259	548587	2.07%	0.047%
35	4.620	4.606	4.633	VV	40979	451633	1.70%	0.038%
36	4.645	4.633	4.658	VV	29607	360675	1.36%	0.031%

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37	4.667	4.658	4.681	VV	25074	256643	0.97%	0.022%
38	4.712	4.681	4.728	VV	34215	609698		
39	4.750	4.728	4.788	VV	42714	843647		
40	4.808	4.788	4.834	VV	40817	545585		
41	4.858	4.834	4.872	VV	19371	292253		
42	4.892	4.872	4.912	VV	25616	447894		
43	4.922	4.912	4.930	VV	15277	139796	0.53%	0.012%
44	4.976	4.930	5.000	VV	33326	910761	3.43%	0.077%
45	5.026	5.000	5.041	VV	32285	531700	2.00%	0.045%
46	5.053	5.041	5.063	VV	29475	317512	1.20%	0.027%
47	5.077	5.063	5.116	VV	36328	682239	2.57%	0.058%
48	5.141	5.116	5.154	VV	18999	342950	1.29%	0.029%
49	5.173	5.154	5.204	VV	44782	876120	3.30%	0.074%
50	5.231	5.204	5.246	VV	35830	689959	2.60%	0.059%
51	5.262	5.246	5.277	VV	42879	543859	2.05%	0.046%
52	5.292	5.277	5.339	VV	33264	904000	3.41%	0.077%
53	5.352	5.339	5.360	VV	19801	232701	0.88%	0.020%
54	5.394	5.360	5.420	VV	70057	1333088	5.02%	0.113%
55	5.444	5.420	5.479	VV	30899	808901	3.05%	0.069%
56	5.498	5.479	5.508	VV	28743	421180	1.59%	0.036%
57	5.518	5.508	5.531	VV	28598	380343	1.43%	0.032%
58	5.554	5.531	5.579	VV	109587	1644742	6.20%	0.140%
59	5.588	5.579	5.596	VV	30707	291925	1.10%	0.025%
60	5.621	5.596	5.640	VV	38364	830495	3.13%	0.070%
61	5.667	5.640	5.702	VV	96521	2009554	7.57%	0.170%
62	5.721	5.702	5.751	VV	55342	1001007	3.77%	0.085%
63	5.782	5.751	5.805	VV	50691	1111175	4.19%	0.094%
64	5.828	5.805	5.848	VV	52876	811797	3.06%	0.069%
65	5.878	5.848	5.897	VV	65698	1259616	4.74%	0.107%
66	5.924	5.897	5.950	VV	68722	1599214	6.02%	0.136%
67	5.970	5.950	5.989	VV	65212	1053351	3.97%	0.089%
68	6.018	5.989	6.039	VV	68373	1449955	5.46%	0.123%
69	6.071	6.039	6.086	VV	60854	1442272	5.43%	0.122%
70	6.102	6.086	6.123	VV	56164	1080080	4.07%	0.092%
71	6.161	6.123	6.175	VV	71389	1588413	5.98%	0.135%
72	6.190	6.175	6.215	VV	73471	1437371	5.41%	0.122%
73	6.235	6.215	6.258	VV	103911	1815704	6.84%	0.154%
74	6.281	6.258	6.297	VV	70854	1435901	5.41%	0.122%
75	6.309	6.297	6.330	VV	66900	1210678	4.56%	0.103%
76	6.358	6.330	6.405	VV	765622	9657111	36.38%	0.819%
77	6.416	6.405	6.428	VV	53821	708319	2.67%	0.060%
78	6.446	6.428	6.458	VV	66211	1028275	3.87%	0.087%
79	6.505	6.458	6.528	VV	273810	4960533	18.68%	0.421%
80	6.543	6.528	6.563	VV	127376	2042131	7.69%	0.173%
81	6.575	6.563	6.601	VV	88646	1521692	5.73%	0.129%
82	6.630	6.601	6.650	VV	93765	2216641	8.35%	0.188%
83	6.677	6.650	6.701	VV	165620	3229868	12.17%	0.274%
84	6.712	6.701	6.724	VV	86509	1060069	3.99%	0.090%
85	6.742	6.724	6.781	VV	101214	2649120	9.98%	0.225%
86	6.813	6.781	6.832	VV	109868	2491707	9.39%	0.211%
87	6.854	6.832	6.864	VV	132764	2055692	7.74%	0.174%
88	6.873	6.864	6.892	VV	135193	1880135	7.08%	0.159%
89	6.913	6.892	6.938	VV	149775	2833571	10.67%	0.240%

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90	6.963	6.938	6.986	VV	121341	2799129	10.54%	0.237%
91	7.013	6.986	7.033	VV	115480	2587666	9	
92	7.059	7.033	7.094	VV	490063	7788629	29	
93	7.112	7.094	7.132	VV	135840	2342868	8	
94	7.157	7.132	7.174	VV	194930	3322125	12	
95	7.198	7.174	7.215	VV	118486	2678925	10	
96	7.242	7.215	7.268	VV	146355	3869349	14.57%	0.328%
97	7.280	7.268	7.302	VV	121650	2233640	8.41%	0.189%
98	7.327	7.302	7.353	VV	122433	3289437	12.39%	0.279%
99	7.402	7.353	7.425	VV	144067	5493918	20.69%	0.466%
100	7.451	7.425	7.479	VV	249862	5564630	20.96%	0.472%
101	7.494	7.479	7.518	VV	123389	2467071	9.29%	0.209%
102	7.538	7.518	7.550	VV	139592	2254361	8.49%	0.191%
103	7.566	7.550	7.579	VV	162660	2421314	9.12%	0.205%
104	7.616	7.579	7.632	VV	236689	5429091	20.45%	0.460%
105	7.645	7.632	7.681	VV	165682	3975910	14.98%	0.337%
106	7.705	7.681	7.721	VV	198781	3638459	13.70%	0.309%
107	7.735	7.721	7.746	VV	179484	2540106	9.57%	0.215%
108	7.756	7.746	7.775	VV	184712	2576047	9.70%	0.219%
109	7.800	7.775	7.819	VV	187831	3966643	14.94%	0.336%
110	7.848	7.819	7.865	VV	194138	4665909	17.58%	0.396%
111	7.886	7.865	7.925	VV	259838	6581828	24.79%	0.558%
112	7.974	7.925	7.999	VV	741316	12845069	48.38%	1.090%
113	8.021	7.999	8.043	VV	220037	4946012	18.63%	0.420%
114	8.061	8.043	8.081	VV	235513	4258641	16.04%	0.361%
115	8.111	8.081	8.124	VV	196704	4746881	17.88%	0.403%
116	8.154	8.124	8.179	VV	936861	14216042	53.55%	1.206%
117	8.198	8.179	8.221	VV	249390	4959301	18.68%	0.421%
118	8.245	8.221	8.280	VV	214695	6554240	24.69%	0.556%
119	8.308	8.280	8.378	VV	485200	14568120	54.87%	1.236%
120	8.397	8.378	8.414	VV	218286	4271304	16.09%	0.362%
121	8.441	8.414	8.464	VV	222528	5966378	22.47%	0.506%
122	8.478	8.464	8.487	VV	192894	2436844	9.18%	0.207%
123	8.507	8.487	8.520	VV	311302	4919969	18.53%	0.417%
124	8.536	8.520	8.556	VV	265739	5343812	20.13%	0.453%
125	8.570	8.556	8.583	VV	233131	3399401	12.80%	0.288%
126	8.603	8.583	8.625	VV	449044	7469044	28.13%	0.634%
127	8.691	8.625	8.714	VV	1007480	21298757	80.23%	1.807%
128	8.731	8.714	8.748	VV	216709	4017163	15.13%	0.341%
129	8.765	8.748	8.787	VV	253662	4907934	18.49%	0.416%
130	8.833	8.787	8.852	VV	276536	8275587	31.17%	0.702%
131	8.862	8.852	8.878	VV	203284	3071070	11.57%	0.260%
132	8.911	8.878	8.934	VV	282786	8137226	30.65%	0.690%
133	8.973	8.934	9.022	VV	267669	12427760	46.81%	1.054%
134	9.056	9.022	9.079	VV	305911	7865014	29.63%	0.667%
135	9.101	9.079	9.144	VV	226151	7617222	28.69%	0.646%
136	9.174	9.144	9.186	VV	212856	4715569	17.76%	0.400%
137	9.207	9.186	9.224	VV	229086	4805306	18.10%	0.408%
138	9.271	9.224	9.313	VV	251247	11192656	42.16%	0.949%
139	9.344	9.313	9.385	VV	434399	12663294	47.70%	1.074%
140	9.425	9.385	9.452	VV	385960	10666397	40.18%	0.905%
141	9.507	9.452	9.551	VV	332984	13615348	51.28%	1.155%

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142	9.589	9.551	9.620	VV	192158	7515585	28.31%	0.637%
143	9.663	9.620	9.678	VV	221925	6557706	24	
144	9.705	9.678	9.728	VV	350787	8375353	31	
145	9.753	9.728	9.791	VV	1014199	17303044	65	
146	9.827	9.791	9.840	VV	257142	7123612	26	
147	9.852	9.840	9.898	VV	268000	7752502	29	
148	9.921	9.898	9.940	VV	214168	5062882	19.07%	0.429%
149	9.979	9.940	10.002	VV	239421	8163598	30.75%	0.692%
150	10.025	10.002	10.061	VV	238402	7325471	27.59%	0.621%
151	10.098	10.061	10.107	VV	238032	5949085	22.41%	0.505%
152	10.142	10.107	10.169	VV	936149	19387976	73.03%	1.644%
153	10.186	10.169	10.201	VV	240240	4465793	16.82%	0.379%
154	10.219	10.201	10.261	VV	254338	8188251	30.84%	0.695%
155	10.284	10.261	10.309	VV	292231	6610372	24.90%	0.561%
156	10.328	10.309	10.355	VV	196529	5053935	19.04%	0.429%
157	10.417	10.355	10.445	VV	283917	12153488	45.78%	1.031%
158	10.487	10.445	10.526	VV	333801	12771747	48.11%	1.083%
159	10.568	10.526	10.593	VV	1434147	26548519	100.00%	2.252%
160	10.604	10.593	10.637	VV	285032	6415061	24.16%	0.544%
161	10.676	10.637	10.714	VV	226549	9841132	37.07%	0.835%
162	10.748	10.714	10.785	VV	232476	9187791	34.61%	0.779%
163	10.822	10.785	10.849	VV	262528	9008895	33.93%	0.764%
164	10.880	10.849	10.920	VV	399169	11376050	42.85%	0.965%
165	10.961	10.920	10.984	VV	225491	7978336	30.05%	0.677%
166	11.014	10.984	11.034	VV	216801	6298540	23.72%	0.534%
167	11.042	11.034	11.068	VV	215325	4105860	15.47%	0.348%
168	11.136	11.068	11.157	VV	224803	11278007	42.48%	0.957%
169	11.194	11.157	11.229	VV	968510	18398017	69.30%	1.561%
170	11.286	11.229	11.321	VV	853524	20945026	78.89%	1.777%
171	11.344	11.321	11.369	VV	214240	5722936	21.56%	0.485%
172	11.386	11.369	11.410	VV	201112	4523196	17.04%	0.384%
173	11.461	11.410	11.527	VV	232726	14466678	54.49%	1.227%
174	11.558	11.527	11.569	VV	206639	4799893	18.08%	0.407%
175	11.588	11.569	11.611	VV	222928	4940916	18.61%	0.419%
176	11.632	11.611	11.653	VV	189020	4501236	16.95%	0.382%
177	11.693	11.653	11.720	VV	192225	7416027	27.93%	0.629%
178	11.742	11.720	11.772	VV	208228	5930365	22.34%	0.503%
179	11.797	11.772	11.809	VV	191841	4076127	15.35%	0.346%
180	11.837	11.809	11.910	VV	354120	13722114	51.69%	1.164%
181	11.929	11.910	11.948	VV	180196	4005317	15.09%	0.340%
182	11.965	11.948	12.028	VV	196942	8417883	31.71%	0.714%
183	12.055	12.028	12.104	VV	174006	7325716	27.59%	0.621%
184	12.132	12.104	12.152	VV	167756	4562033	17.18%	0.387%
185	12.158	12.152	12.183	VV	164961	2898930	10.92%	0.246%
186	12.212	12.183	12.228	VV	153711	3953347	14.89%	0.335%
187	12.262	12.228	12.307	VV	159953	6915025	26.05%	0.587%
188	12.358	12.307	12.391	VV	156015	7158394	26.96%	0.607%
189	12.417	12.391	12.463	VV	175746	6488465	24.44%	0.550%
190	12.498	12.463	12.541	VV	863895	15141745	57.03%	1.284%
191	12.556	12.541	12.574	VV	134660	2587880	9.75%	0.220%
192	12.593	12.574	12.621	VV	133370	3581122	13.49%	0.304%
193	12.639	12.621	12.695	VV	140352	5327114	20.07%	0.452%
194	12.710	12.695	12.727	VV	111865	2135397	8.04%	0.181%

Instrument :
FID_C
ClientSampleId :
EX-5-TPH-5MS

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 12/05/2024
Supervised By :Ankita Jodhani 12/05/2024

rteres

195	12.759	12.727	12.799	VV	117215	4765096	17.95%	0.404%
196	12.820	12.799	12.837	VV	111216	2448243	9	
197	12.854	12.837	12.891	VV	106500	3287906	12	
198	12.937	12.891	12.964	VV	446733	8560797	32	
199	12.988	12.964	13.022	VV	153165	4306620	16	
200	13.039	13.022	13.063	VV	102120	2407418	9	
201	13.108	13.063	13.136	VV	745378	12033198	45.33%	1.021%
202	13.152	13.136	13.250	VV	99193	6085319	22.92%	0.516%
203	13.266	13.250	13.293	VV	86187	2087547	7.86%	0.177%
204	13.326	13.293	13.358	VV	105331	3421792	12.89%	0.290%
205	13.375	13.358	13.400	VV	86259	2077203	7.82%	0.176%
206	13.413	13.400	13.488	VV	80320	3945624	14.86%	0.335%
207	13.527	13.488	13.572	VV	81350	3827465	14.42%	0.325%
208	13.600	13.572	13.654	VV	84937	3590210	13.52%	0.305%
209	13.693	13.654	13.724	VV	714637	10705633	40.32%	0.908%
210	13.742	13.724	13.761	VV	67671	1433773	5.40%	0.122%
211	13.772	13.761	13.794	VV	69655	1300331	4.90%	0.110%
212	13.832	13.794	13.858	VV	65517	2387192	8.99%	0.202%
213	13.867	13.858	13.878	VV	57481	666019	2.51%	0.056%
214	13.921	13.878	13.964	VV	80638	3403634	12.82%	0.289%
215	13.983	13.964	14.024	VV	62917	2124464	8.00%	0.180%
216	14.077	14.024	14.173	VV	61802	5002716	18.84%	0.424%
217	14.189	14.173	14.227	VV	57422	1689208	6.36%	0.143%
218	14.248	14.227	14.280	VV	57606	1613384	6.08%	0.137%
219	14.316	14.280	14.351	VV	55628	2175703	8.20%	0.185%
220	14.375	14.351	14.432	VV	60845	2514039	9.47%	0.213%
221	14.493	14.432	14.514	VV	53899	2391918	9.01%	0.203%
222	14.525	14.514	14.581	VV	50033	1852763	6.98%	0.157%
223	14.627	14.581	14.655	VV	47471	1972741	7.43%	0.167%
224	14.667	14.655	14.677	VV	45804	601911	2.27%	0.051%
225	14.693	14.677	14.738	VV	46377	1588299	5.98%	0.135%
226	14.793	14.738	14.844	VV	643525	10531763	39.67%	0.893%
227	14.864	14.844	14.891	VV	47802	1244377	4.69%	0.106%
228	14.930	14.891	14.971	VV	47372	2053086	7.73%	0.174%
229	14.990	14.971	15.003	VV	42798	791422	2.98%	0.067%
230	15.043	15.003	15.091	VV	45500	2228764	8.40%	0.189%
231	15.115	15.091	15.165	VV	43464	1860903	7.01%	0.158%
232	15.176	15.165	15.184	VV	39644	431335	1.62%	0.037%
233	15.216	15.184	15.285	VV	44860	2503079	9.43%	0.212%
234	15.310	15.285	15.414	VV	50410	3466997	13.06%	0.294%
235	15.433	15.414	15.468	VV	43935	1287037	4.85%	0.109%
236	15.486	15.468	15.498	VV	39317	711602	2.68%	0.060%
237	15.522	15.498	15.541	VV	42464	1044427	3.93%	0.089%
238	15.563	15.541	15.584	VV	41999	1064429	4.01%	0.090%
239	15.620	15.584	15.678	VV	52797	2533471	9.54%	0.215%
240	15.695	15.678	15.738	VV	42456	1453081	5.47%	0.123%
241	15.812	15.738	15.841	VV	593722	10249107	38.61%	0.869%
242	15.850	15.841	15.881	VV	51566	1098351	4.14%	0.093%
243	15.896	15.881	15.907	VV	40868	629722	2.37%	0.053%
244	15.931	15.907	15.948	VV	42680	1009484	3.80%	0.086%
245	16.000	15.948	16.027	VV	50056	2161436	8.14%	0.183%
246	16.042	16.027	16.056	VV	46549	779868	2.94%	0.066%

Instrument :
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EX-5-TPH-5MS

Manual IntegrationsAPPROVED

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					rteres			
247	16.066	16.056	16.071	VV	46394	407487	1.53%	0.035%
248	16.123	16.071	16.151	VV	54462	2359462	8	
249	16.164	16.151	16.218	VV	49695	1823967	6	
250	16.248	16.218	16.261	VV	47434	1171770	4	
251	16.288	16.261	16.310	VV	50769	1368126	5	
252	16.332	16.310	16.361	VV	45379	1356659	5	
253	16.379	16.361	16.395	VV	45936	889306	3.35%	0.075%
254	16.453	16.395	16.468	VV	50031	2035485	7.67%	0.173%
255	16.519	16.468	16.581	VV	54267	3370609	12.70%	0.286%
256	16.620	16.581	16.665	VV	52528	2453276	9.24%	0.208%
257	16.682	16.665	16.691	VV	46174	721723	2.72%	0.061%
258	16.760	16.691	16.829	VV	610221	11663438	43.93%	0.989%
259	16.854	16.829	16.904	VV	51156	2238740	8.43%	0.190%
260	16.928	16.904	16.948	VV	53188	1395176	5.26%	0.118%
261	16.988	16.948	17.026	VV	72442	2690767	10.14%	0.228%
262	17.076	17.026	17.100	VV	55282	2273412	8.56%	0.193%
263	17.156	17.100	17.187	VV	61585	2772211	10.44%	0.235%
264	17.209	17.187	17.258	VV	53506	2161173	8.14%	0.183%
265	17.264	17.258	17.283	VV	49951	733805	2.76%	0.062%
266	17.314	17.283	17.428	VV	62407	4482988	16.89%	0.380%
267	17.435	17.428	17.442	VV	46616	393171	1.48%	0.033%
268	17.447	17.442	17.464	VV	46793	612694	2.31%	0.052%
269	17.485	17.464	17.508	VV	51318	1255743	4.73%	0.107%
270	17.531	17.508	17.554	VV	57632	1443815	5.44%	0.122%
271	17.576	17.554	17.594	VV	54315	1269453	4.78%	0.108%
272	17.646	17.594	17.734	VV	581639	11707256	44.10%	0.993%
273	17.777	17.734	17.857	VV	87213	4323298	16.28%	0.367%
274	17.875	17.857	17.901	VV	46709	1189028	4.48%	0.101%
275	17.931	17.901	17.952	VV	48942	1397663	5.26%	0.119%
276	17.977	17.952	18.044	VV	53572	2642980	9.96%	0.224%
277	18.065	18.044	18.078	VV	46109	898238	3.38%	0.076%
278	18.143	18.078	18.194	VV	91942	3770546	14.20%	0.320%
279	18.207	18.194	18.238	VV	43009	1058087	3.99%	0.090%
280	18.254	18.238	18.271	VV	40081	776340	2.92%	0.066%
281	18.297	18.271	18.321	VV	44945	1253586	4.72%	0.106%
282	18.337	18.321	18.390	VV	43444	1668440	6.28%	0.142%
283	18.477	18.390	18.535	VV	555590	10708977	40.34%	0.908%
284	18.564	18.535	18.588	VV	53800	1395296	5.26%	0.118%
285	18.612	18.588	18.635	VV	49374	1170235	4.41%	0.099%
286	18.662	18.635	18.681	VV	39659	1057973	3.99%	0.090%
287	18.695	18.681	18.718	VV	37215	797023	3.00%	0.068%
288	18.743	18.718	18.838	VV	39018	2539184	9.56%	0.215%
289	18.892	18.838	18.941	VV	45800	2319372	8.74%	0.197%
290	18.963	18.941	19.006	VV	40922	1325136	4.99%	0.112%
291	19.062	19.006	19.146	VV	37168	2728266	10.28%	0.231%
292	19.168	19.146	19.215	VV	32245	1247378	4.70%	0.106%
293	19.258	19.215	19.343	VV	522413	10111422	38.09%	0.858%
294	19.369	19.343	19.424	VV	35030	1475442	5.56%	0.125%
295	19.465	19.424	19.484	VV	31363	1088389	4.10%	0.092%
296	19.530	19.484	19.609	VV	32841	2252507	8.48%	0.191%
297	19.634	19.609	19.643	VV	32810	656364	2.47%	0.056%
298	19.666	19.643	19.720	VV	39299	1503349	5.66%	0.128%
299	19.776	19.720	19.811	VV	33250	1655064	6.23%	0.140%

Instrument :
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EX-5-TPH-5MS

Manual IntegrationsAPPROVED

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Supervised By :Ankita Jodhani 12/05/2024

				rteres				
300	19.830	19.811	19.864	VV	30113	911443	3.43%	0.077%
301	19.885	19.864	19.914	VV	29850	854571	3	
302	19.997	19.914	20.033	VV	530162	9488940	35	
303	20.050	20.033	20.150	VV	33587	2091371	7	
304	20.171	20.150	20.209	VV	30784	1046913	3	
305	20.218	20.209	20.229	VV	29470	342246	1	
306	20.256	20.229	20.318	VV	29422	1496906	5.64%	0.127%
307	20.346	20.318	20.407	VV	29563	1424356	5.37%	0.121%
308	20.445	20.407	20.547	VV	27864	2170592	8.18%	0.184%
309	20.574	20.547	20.626	VV	26605	1128154	4.25%	0.096%
310	20.720	20.626	20.774	VV	439979	9289711	34.99%	0.788%
311	20.787	20.774	20.835	VV	19350	660596	2.49%	0.056%
312	20.844	20.835	20.891	VV	17738	575622	2.17%	0.049%
313	20.911	20.891	20.987	VV	16870	874815	3.30%	0.074%
314	20.999	20.987	21.052	VV	15337	554851	2.09%	0.047%
315	21.062	21.052	21.103	VV	13448	402810	1.52%	0.034%
316	21.131	21.103	21.211	VV	13882	764709	2.88%	0.065%
317	21.218	21.211	21.241	VV	10895	183436	0.69%	0.016%
318	21.256	21.241	21.271	VV	9979	173767	0.65%	0.015%
319	21.277	21.271	21.318	VV	9362	248722	0.94%	0.021%
320	21.323	21.318	21.332	VV	8641	73115	0.28%	0.006%
321	21.341	21.332	21.371	VV	8799	200874	0.76%	0.017%
322	21.377	21.371	21.454	VV	9388	376681	1.42%	0.032%
323	21.463	21.454	21.540	VV	6794	308054	1.16%	0.026%
324	21.605	21.540	21.714	VV	313360	8044611	30.30%	0.682%
325	21.722	21.714	21.731	VV	5120	45565	0.17%	0.004%
326	21.734	21.731	21.742	VV	4921	30222	0.11%	0.003%
327	21.748	21.742	21.861	VV	4572	225140	0.85%	0.019%
328	21.876	21.861	21.918	VV	2628	59870	0.23%	0.005%
329	21.920	21.918	21.961	VV	2027	32758	0.12%	0.003%
330	21.991	21.961	22.009	VV	1594	30484	0.11%	0.003%
331	22.026	22.009	22.045	VV	1425	21494	0.08%	0.002%
332	22.063	22.045	22.101	VBA	1424	64503	0.24%	0.005%

Sum of corrected areas: 1178959409

Aliphatic EPH 102324.M Wed Oct 30 03:57:48 2024

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

Report of Analysis

Client:	Chemtech Consulting Group		Date Collected:		
Project:	NJ Soil PT		Date Received:		
Client Sample ID:	EX-5-TPH-5MS		SDG No.:	P4495	
Lab Sample ID:	P4518-05MS		Matrix:	Solid	
Analytical Method:	NJEPH		% Solid:	73.9	
Sample Wt/Vol:	30.02	Units: g	Final Vol:	2000	uL
Soil Aliquot Vol:		uL	Test:	EPH	
Prep Method :					

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FD048607.D	1	10/25/24	10/28/24	PB164396

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	15.4		0.41	0.90	mg/kg
Aromatic C12-C16	Aromatic C12-C16	85.4	E	0.46	1.35	mg/kg
Aromatic C16-C21	Aromatic C16-C21	255	E	1.30	2.25	mg/kg
Aromatic C21-C36	Aromatic C21-C36	90.4	E	2.70	3.61	mg/kg
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	63.9		40 - 140	128%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	58.4		40 - 140	117%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	35.6		40 - 140	71%	SPK: 50

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

Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	P4518-05MS	Acq On:	28 Oct 2024 16:27
Client Sample ID:	EX-5-TPH-5MS	Operator:	YP/AJ
Data file:	FD048607.D	Misc:	
Instrument:	FID_D	ALS Vial:	70
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.094	5.812	30113921	170.905	200	ug/ml
Aromatic C12-C16	5.813	8.417	167837858	946.774	300	ug/ml
Aromatic C16-C21	8.418	12.677	464910174	2840	500	ug/ml
Aromatic C21-C36	12.678	18.081	153097075	1000	800	ug/ml
Aromatic EPH	4.094	18.081	815959028	4960		ug/ml
2-Bromonaphthalene (SURR)	7.374	7.374	9693084	63.86		ug/ml
2-Flurobiphenyl (SURR)	8.226	8.226	5737547	58.43		ug/ml
ortho-Terphenyl (SURR)	11.263	11.263	6064486	35.6		ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD102824AR\
Data File : FD048607.D
Signal(s) : FID2B.ch
Acq On : 28 Oct 2024 16:27
Operator : YP/AJ
Sample : P4518-05MS
Misc :
ALS Vial : 70 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
EX-5-TPH-5MS

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 10/30/2024
Supervised By :Ankita Jodhani 10/30/2024

Integration File: autoint1.e
Quant Time: Oct 30 02:37:40 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 18:14:59 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
4) S	2-Bromonaphthalene (S...	7.374	9693084	63.863 ug/mlm
Spiked Amount	50.000		Recovery =	127.73%
6) S	2-Flurobiphenyl (SURR)	8.226	5737547	58.432 ug/mlm
Spiked Amount	50.000 Range	0 - 131	Recovery =	116.86%
11) S	ortho-Terphenyl (SURR)	11.263	6064486	35.602 ug/mlm
Spiked Amount	50.000		Recovery =	71.20%
	Target Compounds			
1) T	1,2,3-Trimethylbenzen...	4.196	7927685	45.569 ug/mlm
2) T	Naphthalene (C11.7)	5.714	9959547	55.816 ug/mlm
3) T	2-Methylnaphthalene (...	6.764	14275643	79.812 ug/ml
5) T	Acenaphthylene (C15.06)	8.032	14845173	84.544 ug/mlm
7) T	Acenaphthene (C15.5)	8.327	11960617	67.436 ug/mlm
8) T	Flouorene (C16.55)	9.109	13189064	78.025 ug/mlm
9) T	Phenanthrene (C19.36)	10.499	13677824	82.743 ug/mlm
10) T	Anthracene (C19.43)	10.572	11666821	72.959 ug/mlm
12) T	Fluoranthene (C21.85)	12.301	12086525	73.440 ug/mlm
13) T	Pyrene (C20.8)	12.594	11268384	69.956 ug/mlm
14) T	Benzo[a]anthracene (C...	14.460	9699129	66.334 ug/mlm
15) T	Chrysene (C27.41)	14.503	9884118	60.089 ug/ml
16) T	benzo[b]fluoranthene ...	16.008	9660357	63.543 ug/ml
17) T	Bnezo[k]fluoranthene ...	16.043	9174125	61.037 ug/ml
18) T	Benzo[a]pyrene (C31.34)	16.384	9154091	60.826 ug/ml
19) T	Indeno[1,2,3-cd]pyren...	17.751	9799594	75.105 ug/ml
20) T	Dibenz[a,h]anthracene...	17.789	8906597	54.731 ug/ml
21) T	Benzo[g,h,i]perylene ...	18.004	8814435	57.576 ug/ml

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

Quantitation Report (QT Reviewed)

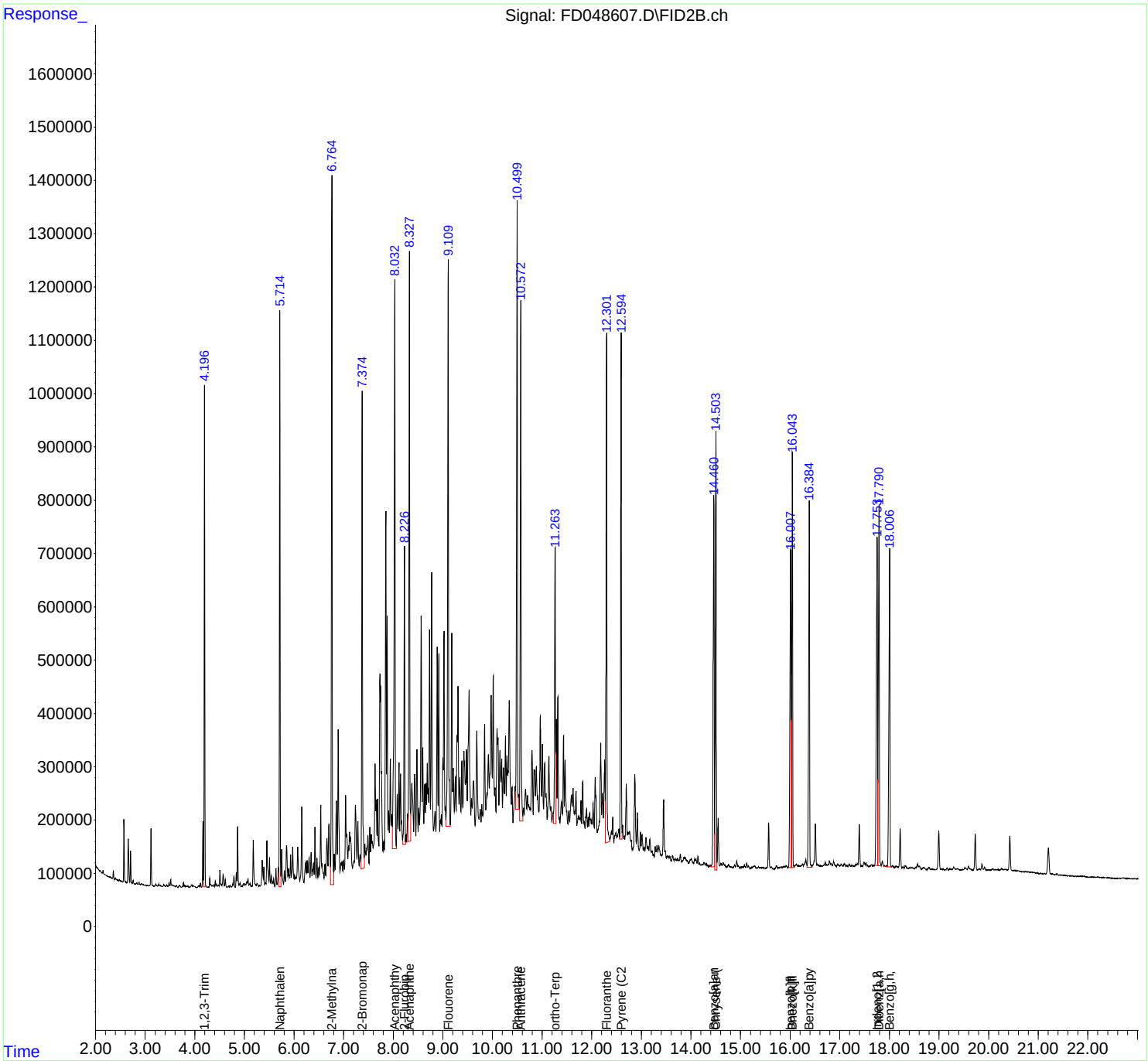
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD102824AR\
Data File : FD048607.D
Signal(s) : FID2B.ch
Acq On : 28 Oct 2024 16:27
Operator : YP/AJ
Sample : P4518-05MS
Misc :
ALS Vial : 70 Sample Multiplier: 1

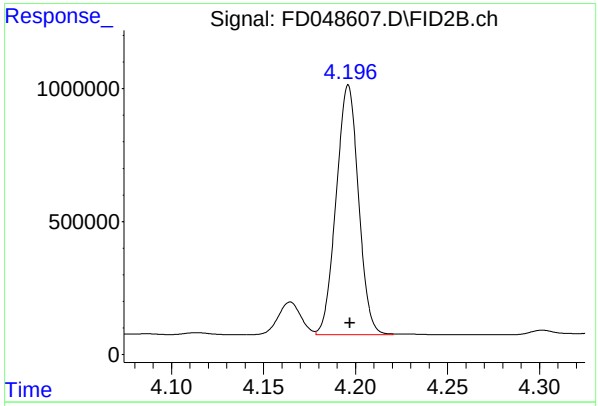
Instrument :
FID_D
ClientSampleId :
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Integration File: autoint1.e
Quant Time: Oct 30 02:37:40 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 18:14:59 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm





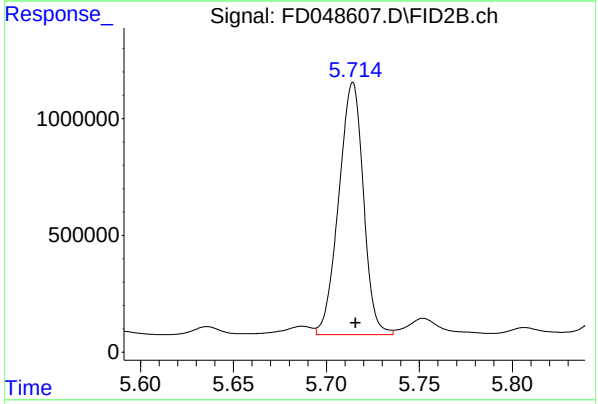
#1 1,2,3-Trimethylbenzene (C10.1)

R.T.: 4.196 min
Delta R.T.: -0.001 min
Response: 7927685
Conc: 45.57 ug/ml

Instrument :
FID_D
ClientSampleId :
EX-5-TPH-5MS

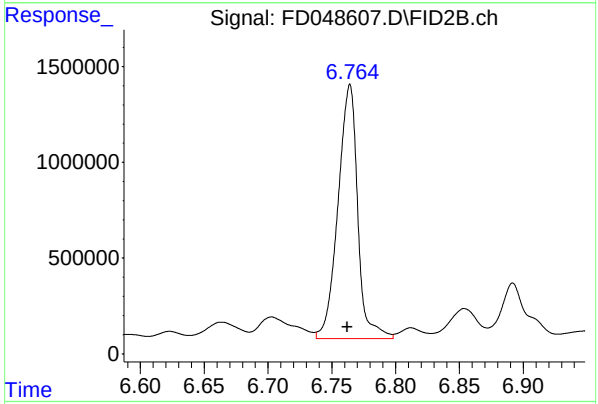
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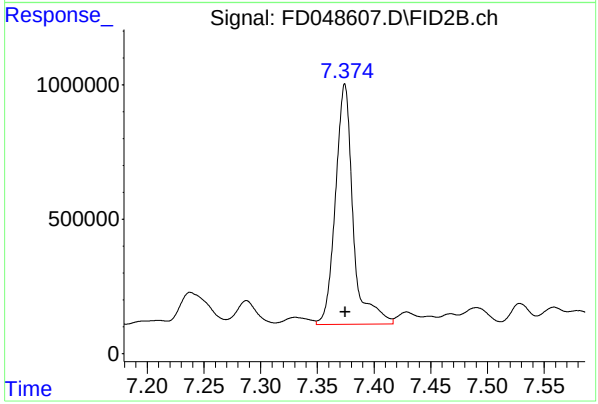
#2 Naphthalene (C11.7)

R.T.: 5.714 min
Delta R.T.: -0.002 min
Response: 9959547
Conc: 55.82 ug/ml m



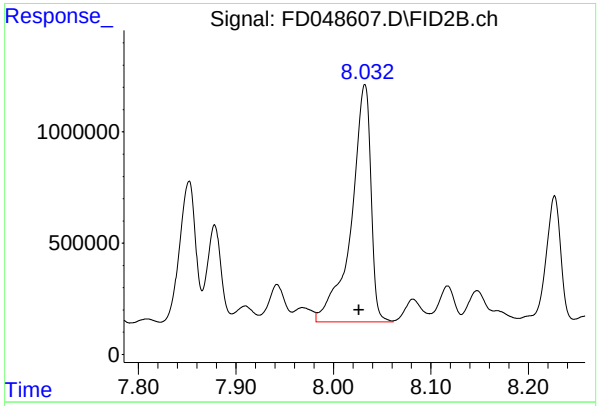
#3 2-Methylnaphthalene (C12.89)

R.T.: 6.764 min
Delta R.T.: 0.001 min
Response: 14275643
Conc: 79.81 ug/ml



#4 2-Bromonaphthalene (SURR)

R.T.: 7.374 min
Delta R.T.: 0.000 min
Response: 9693084
Conc: 63.86 ug/ml m



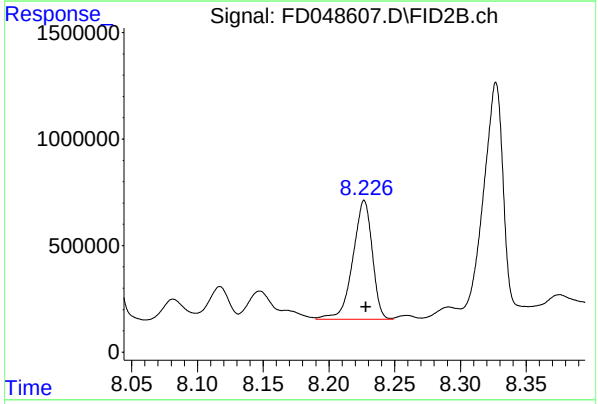
#5 Acenaphthylene (C15.06)

R.T.: 8.032 min
Delta R.T.: 0.006 mi
Response: 14845173
Conc: 84.54 ug/m

Instrument :
FID_D
ClientSampleId :
EX-5-TPH-5MS

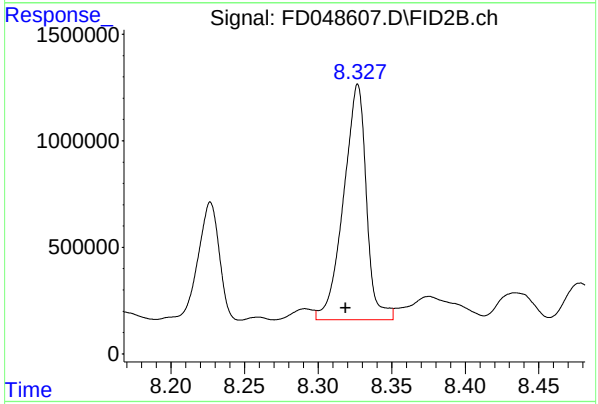
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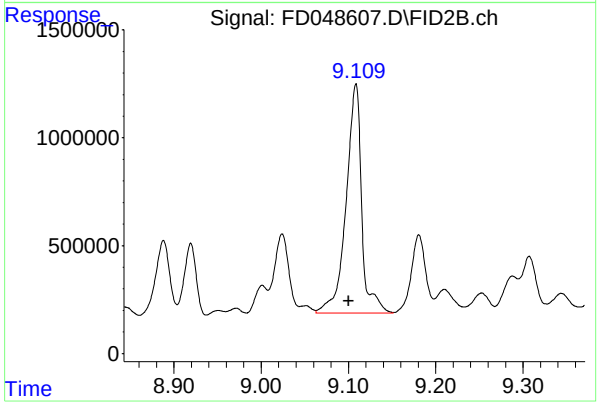
#6 2-Flurobiphenyl (SURR)

R.T.: 8.226 min
Delta R.T.: -0.002 min
Response: 5737547
Conc: 58.43 ug/ml m



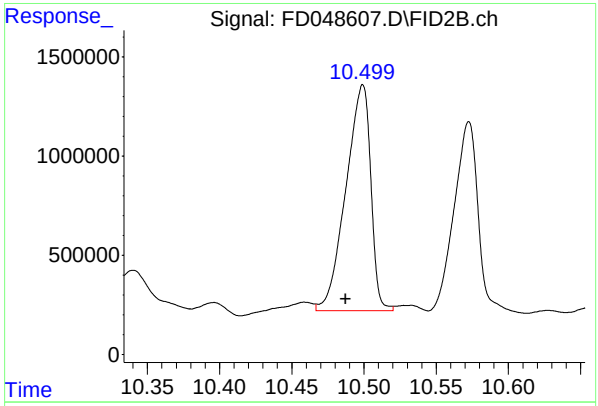
#7 Acenaphthene (C15.5)

R.T.: 8.327 min
Delta R.T.: 0.008 min
Response: 11960617
Conc: 67.44 ug/ml m



#8 Flouorene (C16.55)

R.T.: 9.109 min
Delta R.T.: 0.008 min
Response: 13189064
Conc: 78.02 ug/ml m



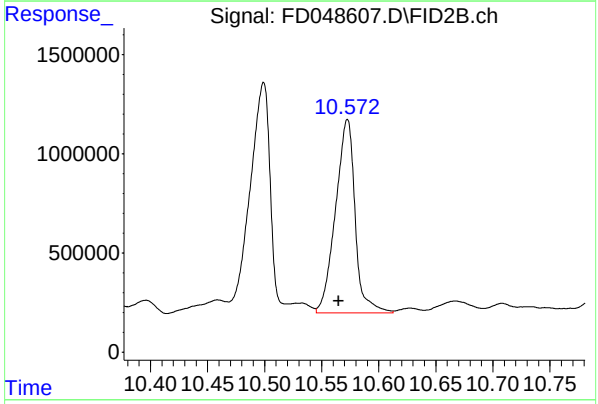
#9 Phenanthrene (C19.36)

R.T.: 10.499 min
Delta R.T.: 0.011 min
Response: 13677824
Conc: 82.74 ug/ml

Instrument :
FID_D
ClientSampleId :
EX-5-TPH-5MS

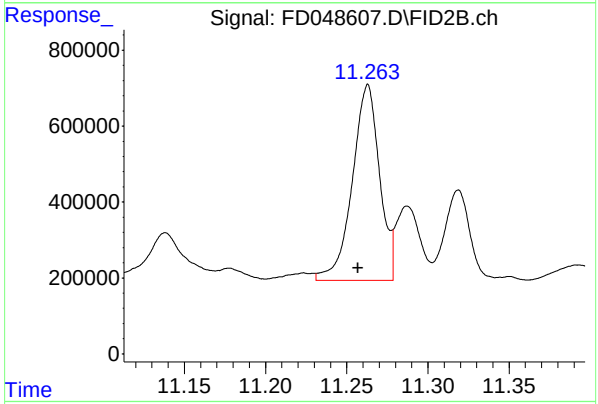
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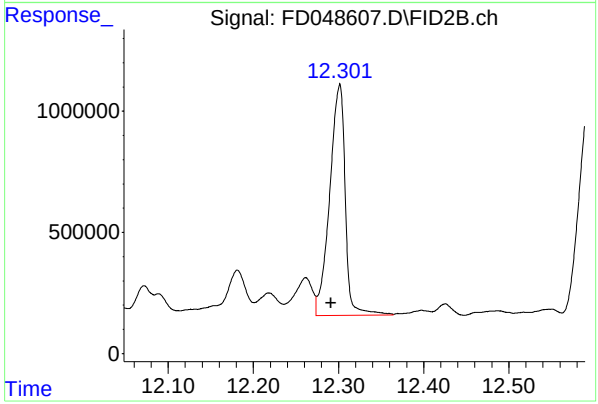
#10 Anthracene (C19.43)

R.T.: 10.572 min
Delta R.T.: 0.008 min
Response: 11666821
Conc: 72.96 ug/ml m



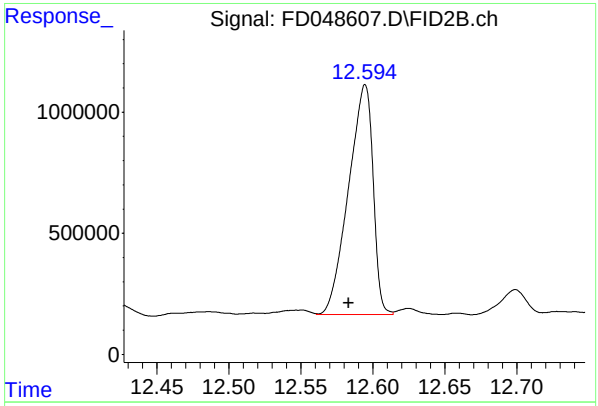
#11 ortho-Terphenyl (SURR)

R.T.: 11.263 min
Delta R.T.: 0.006 min
Response: 6064486
Conc: 35.60 ug/ml m



#12 Fluoranthene (C21.85)

R.T.: 12.301 min
Delta R.T.: 0.010 min
Response: 12086525
Conc: 73.44 ug/ml m



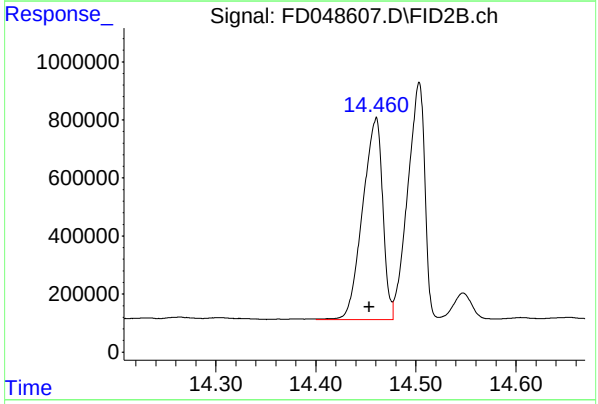
#13 Pyrene (C20.8)

R.T.: 12.594 min
Delta R.T.: 0.011 min
Response: 11268384
Conc: 69.96 ug/ml

Instrument :
FID_D
ClientSampleId :
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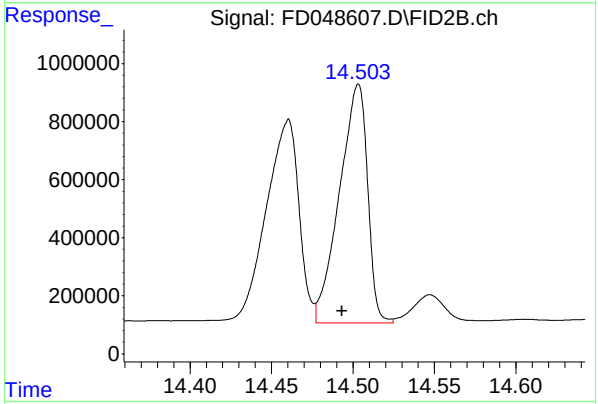
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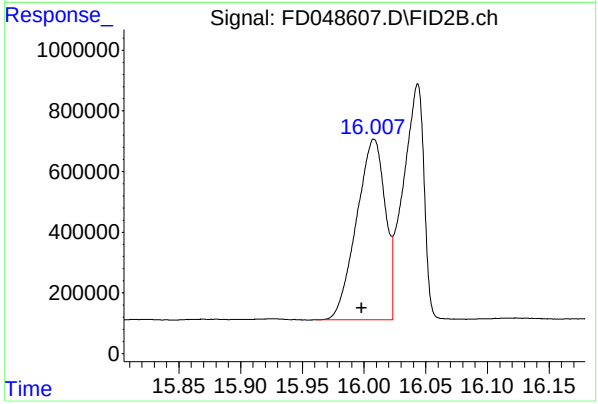
#14 Benzo[a]anthracene (C26.37)

R.T.: 14.460 min
Delta R.T.: 0.007 min
Response: 9699129
Conc: 66.33 ug/ml m



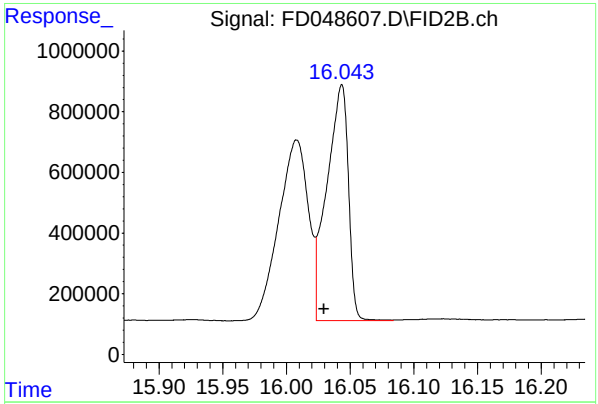
#15 Chrysene (C27.41)

R.T.: 14.503 min
Delta R.T.: 0.009 min
Response: 9884118
Conc: 60.09 ug/ml



#16 benzo[b]fluoranthene (C30.41)

R.T.: 16.008 min
Delta R.T.: 0.010 min
Response: 9660357
Conc: 63.54 ug/ml



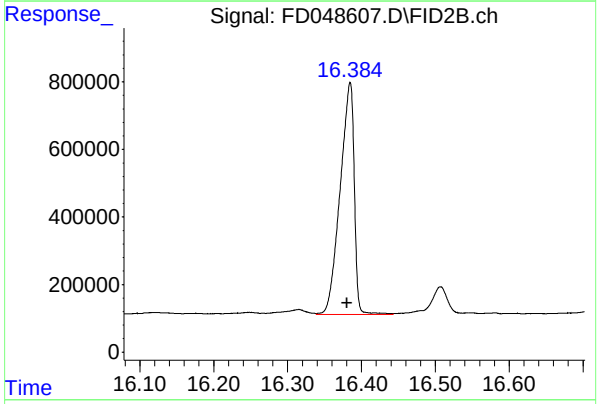
#17 Bnezo[k]fluoranthene (C30.14)

R.T.: 16.043 min
Delta R.T.: 0.013 min
Response: 9174125
Conc: 61.04 ug/ml

Instrument :
FID_D
ClientSampleId :
EX-5-TPH-5MS

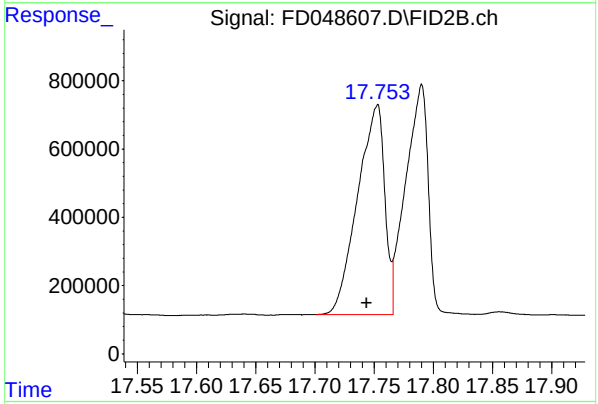
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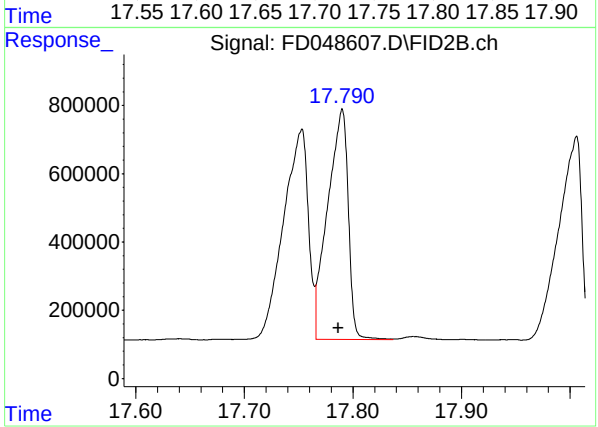
#18 Benzo[a]pyrene (C31.34)

R.T.: 16.384 min
Delta R.T.: 0.003 min
Response: 9154091
Conc: 60.83 ug/ml



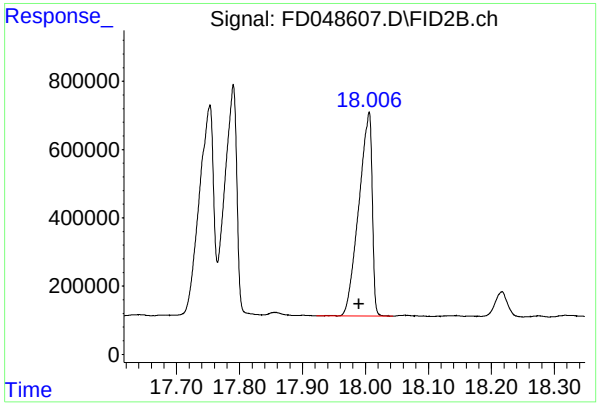
#19 Indeno[1,2,3-cd]pyrene (C35.01)

R.T.: 17.751 min
Delta R.T.: 0.008 min
Response: 9799594
Conc: 75.11 ug/ml



#20 Dibenz[a,h]anthracene (C30.36)

R.T.: 17.789 min
Delta R.T.: 0.003 min
Response: 8906597
Conc: 54.73 ug/ml



#21 Benzo[g,h,i]perylene (C34.01)

R.T.: 18.004 min
Delta R.T.: 0.014 mi
Response: 8814435
Conc: 57.58 ug/m

Instrument :
FID_D
ClientSampleId :
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Instrument :
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rteres

Area Percent Report

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Reviewed By :Yogesh Patel 10/30/2024
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Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD10282
Data File : FD048607.D
Signal(s) : FID2B.ch
Acq On : 28 Oct 2024 16:27
Sample : P4518-05MS
Misc :
ALS Vial : 70 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 102324.M
Title : GC Extractables

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.165	4.137	4.178	VV	124682	1073583	5.72%	0.128%
2	4.196	4.178	4.249	VV	943237	8014104	42.69%	0.957%
3	4.275	4.249	4.284	VV	1440	19674	0.10%	0.002%
4	4.302	4.284	4.320	VV	17905	186579	0.99%	0.022%
5	4.325	4.320	4.341	VV	5295	55342	0.29%	0.007%
6	4.351	4.341	4.367	VV	4258	54613	0.29%	0.007%
7	4.386	4.367	4.399	VV	5504	71193	0.38%	0.009%
8	4.413	4.399	4.426	VV	12705	118145	0.63%	0.014%
9	4.435	4.426	4.452	VV	6700	72236	0.38%	0.009%
10	4.466	4.452	4.474	VV	4812	53528	0.29%	0.006%
11	4.482	4.474	4.491	VV	5412	48668	0.26%	0.006%
12	4.507	4.491	4.524	VV	32946	316441	1.69%	0.038%
13	4.532	4.524	4.545	VV	7158	73407	0.39%	0.009%
14	4.572	4.545	4.597	VV	24697	377231	2.01%	0.045%
15	4.615	4.597	4.648	VV	15706	183488	0.98%	0.022%
16	4.679	4.648	4.693	PV	3430	46625	0.25%	0.006%
17	4.708	4.693	4.725	VV	4794	51520	0.27%	0.006%
18	4.735	4.725	4.745	VV	2082	19722	0.11%	0.002%
19	4.765	4.745	4.774	VV	6306	66448	0.35%	0.008%
20	4.790	4.774	4.816	VV	22178	236756	1.26%	0.028%
21	4.837	4.816	4.848	VV	28382	255039	1.36%	0.030%
22	4.863	4.848	4.886	VV	114187	1056489	5.63%	0.126%
23	4.895	4.886	4.904	VV	6675	61320	0.33%	0.007%
24	4.915	4.904	4.932	VV	9053	91259	0.49%	0.011%
25	4.952	4.932	4.962	VV	2825	37243	0.20%	0.004%
26	4.981	4.962	4.995	VV	7128	95272	0.51%	0.011%
27	5.010	4.995	5.029	VV	6972	111062	0.59%	0.013%
28	5.047	5.029	5.059	VV	10430	141621	0.75%	0.017%
29	5.072	5.059	5.088	VV	15805	173275	0.92%	0.021%
30	5.112	5.088	5.124	VV	7498	113404	0.60%	0.014%
31	5.130	5.124	5.143	VV	4365	33655	0.18%	0.004%
32	5.154	5.143	5.160	VV	2638	20712	0.11%	0.002%
33	5.179	5.160	5.219	VV	88895	1039609	5.54%	0.124%
34	5.224	5.219	5.238	VV	5699	52739	0.28%	0.006%
35	5.255	5.238	5.289	VV	6738	123901	0.66%	0.015%
36	5.304	5.289	5.316	VV	3125	37079	0.20%	0.004%

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					rteres			
37	5.361	5.316	5.381	VV	50224	748077	3.98%	0.089%
38	5.393	5.381	5.411	VV	37980	376700		
39	5.425	5.411	5.436	VV	8344	106734		
40	5.453	5.436	5.491	VV	86603	1252756		
41	5.506	5.491	5.524	VV	55312	547625		
42	5.543	5.524	5.559	VV	21025	261558		
43	5.569	5.559	5.576	VV	9198	82217	0.44%	0.010%
44	5.589	5.576	5.613	VV	15785	176006	0.94%	0.021%
45	5.636	5.613	5.658	PV	34594	352223	1.88%	0.042%
46	5.687	5.658	5.693	VV	36161	381686	2.03%	0.046%
47	5.714	5.693	5.736	VV	1078965	9984945	53.19%	1.193%
48	5.752	5.736	5.789	VV	69771	887524	4.73%	0.106%
49	5.807	5.789	5.827	VV	30024	372888	1.99%	0.045%
50	5.849	5.827	5.877	VV	76590	1292070	6.88%	0.154%
51	5.890	5.877	5.917	VV	33967	554921	2.96%	0.066%
52	5.932	5.917	5.947	VV	59603	642276	3.42%	0.077%
53	5.974	5.947	6.000	VV	74037	1143767	6.09%	0.137%
54	6.012	6.000	6.024	VV	21036	252150	1.34%	0.030%
55	6.034	6.024	6.045	VV	17053	193398	1.03%	0.023%
56	6.075	6.045	6.117	VV	73518	1386736	7.39%	0.166%
57	6.158	6.117	6.201	VV	149101	2086732	11.12%	0.249%
58	6.235	6.201	6.249	VV	44010	811496	4.32%	0.097%
59	6.266	6.249	6.281	VV	47866	680669	3.63%	0.081%
60	6.304	6.281	6.323	VV	52125	927156	4.94%	0.111%
61	6.346	6.323	6.363	VV	62391	899551	4.79%	0.107%
62	6.376	6.363	6.381	VV	31355	295004	1.57%	0.035%
63	6.394	6.381	6.408	VV	42474	534580	2.85%	0.064%
64	6.423	6.408	6.444	VV	108999	1179703	6.28%	0.141%
65	6.463	6.444	6.482	VV	52084	714253	3.80%	0.085%
66	6.499	6.482	6.511	VV	33950	439321	2.34%	0.052%
67	6.539	6.511	6.556	VV	151057	1906016	10.15%	0.228%
68	6.564	6.556	6.587	VV	41237	645304	3.44%	0.077%
69	6.591	6.587	6.606	VV	23627	225291	1.20%	0.027%
70	6.623	6.606	6.639	VV	40129	535511	2.85%	0.064%
71	6.664	6.639	6.685	VV	87839	1581201	8.42%	0.189%
72	6.703	6.685	6.736	VV	115462	2225201	11.85%	0.266%
73	6.764	6.736	6.798	VV	1326654	14351826	76.45%	1.714%
74	6.812	6.798	6.828	VV	58587	731900	3.90%	0.087%
75	6.854	6.828	6.872	VV	158438	2482648	13.22%	0.297%
76	6.892	6.872	6.927	VV	291810	4258458	22.68%	0.509%
77	6.949	6.927	6.959	VV	41468	661033	3.52%	0.079%
78	6.968	6.959	6.983	VV	42178	529241	2.82%	0.063%
79	7.000	6.983	7.017	VV	45765	756000	4.03%	0.090%
80	7.041	7.017	7.055	VV	168007	2190647	11.67%	0.262%
81	7.062	7.055	7.086	VV	95534	1397706	7.45%	0.167%
82	7.099	7.086	7.106	VV	74157	794371	4.23%	0.095%
83	7.119	7.106	7.129	VV	98695	1160444	6.18%	0.139%
84	7.138	7.129	7.181	VV	88541	1916147	10.21%	0.229%
85	7.210	7.181	7.219	VV	44764	906562	4.83%	0.108%
86	7.238	7.219	7.270	VV	148703	2964086	15.79%	0.354%
87	7.288	7.270	7.313	VV	118182	1867580	9.95%	0.223%
88	7.331	7.313	7.349	VV	55979	1018753	5.43%	0.122%
89	7.374	7.349	7.416	VV	923612	10896917	58.04%	1.301%

Instrument :
FID_D
ClientSampleId :
EX-5-TPH-5MS

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90	7.429	7.416	7.442	VV	75466	1011859	5.39%	0.121%
91	7.449	7.442	7.456	VV	59521	480255		
92	7.468	7.456	7.474	VV	68759	685225		
93	7.491	7.474	7.512	VV	91800	1599720		
94	7.529	7.512	7.544	VV	107079	1462019		
95	7.559	7.544	7.571	VV	93100	1317880		
96	7.580	7.571	7.594	VV	79834	1044715	5.56%	0.125%
97	7.635	7.594	7.651	VV	225044	4270679	22.75%	0.510%
98	7.659	7.651	7.672	VV	157679	1707060	9.09%	0.204%
99	7.685	7.672	7.711	VV	159325	2550207	13.58%	0.305%
100	7.732	7.711	7.740	VV	394450	4309045	22.95%	0.515%
101	7.745	7.740	7.792	VV	371582	6170031	32.87%	0.737%
102	7.809	7.792	7.822	VV	79002	1270037	6.77%	0.152%
103	7.852	7.822	7.866	VV	698282	8891225	47.36%	1.062%
104	7.878	7.866	7.896	VV	502028	5482948	29.21%	0.655%
105	7.910	7.896	7.924	VV	137456	1940686	10.34%	0.232%
106	7.942	7.924	7.958	VV	234228	3264584	17.39%	0.390%
107	7.969	7.958	7.984	VV	129634	1836649	9.78%	0.219%
108	8.032	7.984	8.061	VV	1132396	17842313	95.04%	2.131%
109	8.082	8.061	8.099	VV	167439	2726536	14.52%	0.326%
110	8.117	8.099	8.131	VV	226886	3070489	16.36%	0.367%
111	8.147	8.131	8.190	VV	205360	4569447	24.34%	0.546%
112	8.227	8.190	8.247	VV	631928	8252059	43.96%	0.986%
113	8.260	8.247	8.270	VV	91084	1152236	6.14%	0.138%
114	8.291	8.270	8.300	VV	130249	1913387	10.19%	0.229%
115	8.327	8.300	8.352	VV	1186260	14459490	77.02%	1.727%
116	8.375	8.352	8.413	VV	187890	5417368	28.86%	0.647%
117	8.434	8.413	8.457	VV	204281	4142340	22.07%	0.495%
118	8.478	8.457	8.502	VV	250362	4533842	24.15%	0.541%
119	8.516	8.502	8.531	VV	140642	2081099	11.09%	0.249%
120	8.564	8.531	8.583	VV	497918	8006383	42.65%	0.956%
121	8.595	8.583	8.618	VV	253108	3773359	20.10%	0.451%
122	8.635	8.618	8.648	VV	185078	2719049	14.48%	0.325%
123	8.663	8.648	8.674	VV	186598	2476072	13.19%	0.296%
124	8.687	8.674	8.699	VV	223782	2888236	15.38%	0.345%
125	8.706	8.699	8.716	VV	177110	1707513	9.10%	0.204%
126	8.734	8.716	8.751	VV	474863	5902010	31.44%	0.705%
127	8.775	8.751	8.813	VV	582331	9378305	49.96%	1.120%
128	8.844	8.813	8.861	VV	133076	3253680	17.33%	0.389%
129	8.888	8.861	8.904	VV	441563	6284722	33.48%	0.751%
130	8.919	8.904	8.938	VV	428224	5024275	26.76%	0.600%
131	8.951	8.938	8.959	VV	115909	1437309	7.66%	0.172%
132	8.971	8.959	8.983	VV	127270	1656490	8.82%	0.198%
133	9.001	8.983	9.008	VV	233204	2678615	14.27%	0.320%
134	9.024	9.008	9.045	VV	471257	6547047	34.87%	0.782%
135	9.051	9.045	9.063	VV	138848	1420215	7.57%	0.170%
136	9.109	9.063	9.152	VV	1166814	18773242	100.00%	2.242%
137	9.181	9.152	9.198	VV	466609	7063018	37.62%	0.844%
138	9.210	9.198	9.233	VV	213637	3624735	19.31%	0.433%
139	9.253	9.233	9.268	VV	197236	3439389	18.32%	0.411%
140	9.288	9.268	9.295	VV	274906	3535586	18.83%	0.422%
141	9.307	9.295	9.329	VV	366372	5275107	28.10%	0.630%

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142	9.344	9.329	9.365	VV	195259	3568698	19.01%	0.426%
143	9.384	9.365	9.405	VV	226260	4126706	21	
144	9.426	9.405	9.453	VV	245086	5834685	31	
145	9.478	9.453	9.493	VV	247364	4734147	25	
146	9.530	9.493	9.565	VV	359310	9970042	53	
147	9.579	9.565	9.594	VV	155496	2493004	13	
148	9.619	9.594	9.652	VV	188854	5307437	28.27%	0.634%
149	9.685	9.652	9.731	VV	282121	7750156	41.28%	0.926%
150	9.755	9.731	9.772	VV	134748	3073880	16.37%	0.367%
151	9.787	9.772	9.799	VV	144315	2053031	10.94%	0.245%
152	9.806	9.799	9.811	VV	125208	944308	5.03%	0.113%
153	9.843	9.811	9.867	VV	294592	6133643	32.67%	0.733%
154	9.890	9.867	9.896	VV	166189	2591166	13.80%	0.309%
155	9.919	9.896	9.936	VV	237037	4829974	25.73%	0.577%
156	9.974	9.936	9.997	VV	347163	8965615	47.76%	1.071%
157	10.016	9.997	10.042	VV	384171	6915666	36.84%	0.826%
158	10.053	10.042	10.071	VV	174733	2749993	14.65%	0.328%
159	10.094	10.071	10.105	VV	284753	4528115	24.12%	0.541%
160	10.113	10.105	10.131	VV	267568	3430048	18.27%	0.410%
161	10.152	10.131	10.173	VV	244380	5029608	26.79%	0.601%
162	10.187	10.173	10.203	VV	228318	3461618	18.44%	0.413%
163	10.225	10.203	10.242	VV	211771	4246820	22.62%	0.507%
164	10.263	10.242	10.278	VV	271260	4497077	23.95%	0.537%
165	10.295	10.278	10.307	VV	233875	3450855	18.38%	0.412%
166	10.313	10.307	10.318	VV	206138	1377975	7.34%	0.165%
167	10.340	10.318	10.380	VV	337808	8609011	45.86%	1.028%
168	10.396	10.380	10.415	VV	175006	3066657	16.34%	0.366%
169	10.459	10.415	10.468	VV	176326	4661496	24.83%	0.557%
170	10.499	10.468	10.524	VV	1273289	18162750	96.75%	2.169%
171	10.531	10.524	10.544	VV	159747	1913965	10.20%	0.229%
172	10.573	10.544	10.613	VV	1086735	16220908	86.40%	1.937%
173	10.627	10.613	10.640	VV	135079	2092127	11.14%	0.250%
174	10.667	10.640	10.692	VV	170116	4627414	24.65%	0.553%
175	10.708	10.692	10.722	VV	158674	2650736	14.12%	0.317%
176	10.733	10.722	10.757	VV	141038	2864050	15.26%	0.342%
177	10.798	10.757	10.823	VV	242778	6826251	36.36%	0.815%
178	10.840	10.823	10.868	VV	206195	4929699	26.26%	0.589%
179	10.885	10.868	10.910	VV	211904	4504375	23.99%	0.538%
180	10.915	10.910	10.935	VV	154709	2141574	11.41%	0.256%
181	10.965	10.935	10.993	VV	306512	6903924	36.78%	0.825%
182	11.009	10.993	11.032	VV	253996	4421026	23.55%	0.528%
183	11.055	11.032	11.073	VV	218522	4384655	23.36%	0.524%
184	11.080	11.073	11.103	VV	160086	2554425	13.61%	0.305%
185	11.138	11.103	11.169	VV	230450	6341481	33.78%	0.757%
186	11.177	11.169	11.200	VV	136469	2285375	12.17%	0.273%
187	11.224	11.200	11.229	VV	124181	2006279	10.69%	0.240%
188	11.263	11.229	11.278	VV	622636	9075094	48.34%	1.084%
189	11.287	11.278	11.303	VV	300174	3620952	19.29%	0.432%
190	11.319	11.303	11.343	VV	342239	5042738	26.86%	0.602%
191	11.350	11.343	11.362	VV	114414	1260906	6.72%	0.151%
192	11.393	11.362	11.410	VV	144419	3712240	19.77%	0.443%
193	11.433	11.410	11.450	VV	267510	4432817	23.61%	0.529%
194	11.466	11.450	11.520	VV	223157	6234701	33.21%	0.745%

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195	11.541	11.520	11.554	VV	127500	2402210	12.80%	0.287%
196	11.593	11.554	11.610	VV	156457	4507415	24	
197	11.627	11.610	11.649	VV	169572	3398432	18	
198	11.662	11.649	11.669	VV	125945	1479809	7	
199	11.685	11.669	11.703	VV	164278	2708761	14	
200	11.728	11.703	11.739	VV	116819	2371904	12	
201	11.748	11.739	11.770	VV	114753	2108498	11.23%	0.252%
202	11.785	11.770	11.800	VV	145849	2230265	11.88%	0.266%
203	11.819	11.800	11.843	VV	181913	3645948	19.42%	0.435%
204	11.850	11.843	11.865	VV	106071	1339951	7.14%	0.160%
205	11.879	11.865	11.885	VV	115387	1253014	6.67%	0.150%
206	11.898	11.885	11.916	VV	130423	2192093	11.68%	0.262%
207	11.930	11.916	11.943	VV	114354	1690876	9.01%	0.202%
208	11.960	11.943	11.991	VV	123107	3217711	17.14%	0.384%
209	12.001	11.991	12.011	VV	109036	1240228	6.61%	0.148%
210	12.028	12.011	12.053	VV	140856	2887860	15.38%	0.345%
211	12.072	12.053	12.084	VV	188574	2787467	14.85%	0.333%
212	12.089	12.084	12.113	VV	154926	2092101	11.14%	0.250%
213	12.181	12.113	12.201	VV	252688	7041685	37.51%	0.841%
214	12.218	12.201	12.236	VV	158042	2847673	15.17%	0.340%
215	12.262	12.236	12.274	VV	221532	3859905	20.56%	0.461%
216	12.301	12.274	12.365	VV	1023227	15670033	83.47%	1.871%
217	12.371	12.365	12.375	VV	73021	445055	2.37%	0.053%
218	12.398	12.375	12.410	VV	86544	1662893	8.86%	0.199%
219	12.425	12.410	12.448	VV	113166	2053320	10.94%	0.245%
220	12.487	12.448	12.506	VV	83915	2717137	14.47%	0.325%
221	12.518	12.506	12.525	VV	78032	876053	4.67%	0.105%
222	12.550	12.525	12.562	VV	90401	1860696	9.91%	0.222%
223	12.595	12.562	12.614	VV	1023305	13522812	72.03%	1.615%
224	12.625	12.614	12.648	VV	97220	1701578	9.06%	0.203%
225	12.659	12.648	12.669	VV	77358	938354	5.00%	0.112%
226	12.699	12.669	12.719	VV	174630	3394186	18.08%	0.405%
227	12.729	12.719	12.747	VV	84124	1403940	7.48%	0.168%
228	12.763	12.747	12.787	VV	85601	1896531	10.10%	0.227%
229	12.797	12.787	12.820	VV	69247	1211326	6.45%	0.145%
230	12.831	12.820	12.838	VV	54031	579605	3.09%	0.069%
231	12.869	12.838	12.900	VV	191937	3994234	21.28%	0.477%
232	12.920	12.900	12.960	VV	119531	2753047	14.66%	0.329%
233	12.983	12.960	12.998	VV	83064	1489350	7.93%	0.178%
234	13.016	12.998	13.041	VV	78454	1664723	8.87%	0.199%
235	13.057	13.041	13.071	VV	55557	935468	4.98%	0.112%
236	13.094	13.071	13.120	VV	73032	1771875	9.44%	0.212%
237	13.134	13.120	13.153	VV	56692	1064349	5.67%	0.127%
238	13.172	13.153	13.202	VV	69476	1642774	8.75%	0.196%
239	13.219	13.202	13.238	VV	48452	958377	5.11%	0.114%
240	13.248	13.238	13.260	VV	41692	522754	2.78%	0.062%
241	13.280	13.260	13.296	VV	55987	1054845	5.62%	0.126%
242	13.317	13.296	13.335	VV	57813	1181700	6.29%	0.141%
243	13.352	13.335	13.390	VV	57065	1610422	8.58%	0.192%
244	13.396	13.390	13.413	VV	40616	553525	2.95%	0.066%
245	13.450	13.413	13.474	VV	143755	2791354	14.87%	0.333%
246	13.483	13.474	13.505	VV	47662	795323	4.24%	0.095%

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247	13.523	13.505	13.536	VV	37466	666581	3.55%	0.080%
248	13.542	13.536	13.545	VV	36867	203559		
249	13.550	13.545	13.562	VV	36887	357355		
250	13.577	13.562	13.603	VV	36575	795911		
251	13.627	13.603	13.664	VV	37845	1176428		
252	13.679	13.664	13.700	VV	32695	670461		
253	13.706	13.700	13.723	VV	30321	405695	2.16%	0.048%
254	13.737	13.723	13.750	VV	32277	485840	2.59%	0.058%
255	13.758	13.750	13.763	VV	28875	226284	1.21%	0.027%
256	13.787	13.763	13.814	VV	40071	986642	5.26%	0.118%
257	13.860	13.814	13.872	VV	34731	1034567	5.51%	0.124%
258	13.883	13.872	13.914	VV	33902	788589	4.20%	0.094%
259	13.926	13.914	13.961	VV	28242	728006	3.88%	0.087%
260	14.007	13.961	14.049	VV	31376	1434863	7.64%	0.171%
261	14.079	14.049	14.090	VV	29973	636142	3.39%	0.076%
262	14.103	14.090	14.121	VV	30670	518258	2.76%	0.062%
263	14.141	14.121	14.159	VV	35373	638758	3.40%	0.076%
264	14.169	14.159	14.192	VV	22595	412301	2.20%	0.049%
265	14.206	14.192	14.212	VV	19162	229425	1.22%	0.027%
266	14.231	14.212	14.245	VV	21004	392788	2.09%	0.047%
267	14.264	14.245	14.287	VV	23753	529999	2.82%	0.063%
268	14.305	14.287	14.358	VV	21850	795534	4.24%	0.095%
269	14.364	14.358	14.371	VV	16608	129290	0.69%	0.015%
270	14.460	14.371	14.477	VV	709734	10640772	56.68%	1.271%
271	14.503	14.477	14.524	VV	833530	10142231	54.02%	1.211%
272	14.547	14.524	14.578	VV	106072	1666176	8.88%	0.199%
273	14.605	14.578	14.626	VV	21273	542052	2.89%	0.065%
274	14.653	14.626	14.719	VV	21808	980938	5.23%	0.117%
275	14.729	14.719	14.733	VV	14564	116379	0.62%	0.014%
276	14.757	14.733	14.779	VV	18659	453864	2.42%	0.054%
277	14.783	14.779	14.809	VV	14358	244424	1.30%	0.029%
278	14.812	14.809	14.826	VV	13900	136957	0.73%	0.016%
279	14.831	14.826	14.834	VV	13068	59858	0.32%	0.007%
280	14.844	14.834	14.853	VV	13484	148420	0.79%	0.018%
281	14.878	14.853	14.900	VV	17039	426450	2.27%	0.051%
282	14.921	14.900	14.991	VV	24513	894775	4.77%	0.107%
283	15.031	14.991	15.056	VV	13491	482057	2.57%	0.058%
284	15.076	15.056	15.099	VV	17468	372546	1.98%	0.044%
285	15.124	15.099	15.145	VV	20428	422417	2.25%	0.050%
286	15.159	15.145	15.194	VV	15065	355699	1.89%	0.042%
287	15.212	15.194	15.219	VV	10993	158793	0.85%	0.019%
288	15.261	15.219	15.268	VV	13362	355094	1.89%	0.042%
289	15.282	15.268	15.312	VV	14966	342829	1.83%	0.041%
290	15.320	15.312	15.336	VV	11011	150636	0.80%	0.018%
291	15.356	15.336	15.364	VV	12192	188943	1.01%	0.023%
292	15.369	15.364	15.377	VV	12060	88214	0.47%	0.011%
293	15.382	15.377	15.404	VV	11662	177892	0.95%	0.021%
294	15.416	15.404	15.428	VV	11072	153860	0.82%	0.018%
295	15.449	15.428	15.466	VV	11934	246836	1.31%	0.029%
296	15.478	15.466	15.487	VV	10448	126123	0.67%	0.015%
297	15.490	15.487	15.494	VV	9941	40686	0.22%	0.005%
298	15.499	15.494	15.513	VV	10120	111038	0.59%	0.013%
299	15.519	15.513	15.521	VV	9757	47672	0.25%	0.006%

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300	15.565	15.521	15.596	VV	94137	1495313	7.97%	0.179%
301	15.620	15.596	15.667	VV	11946	413510		
302	15.671	15.667	15.679	VV	8201	56259		
303	15.682	15.679	15.686	VV	8499	37018		
304	15.692	15.686	15.695	VV	8630	44777		
305	15.726	15.695	15.749	VV	13618	367246		
306	15.766	15.749	15.774	VV	10153	139815	0.74%	0.017%
307	15.779	15.774	15.784	VV	9521	55872	0.30%	0.007%
308	15.792	15.784	15.800	VV	10320	96929	0.52%	0.012%
309	15.825	15.800	15.844	VV	11470	281359	1.50%	0.034%
310	15.870	15.844	15.891	VV	12285	317560	1.69%	0.038%
311	15.926	15.891	15.955	VV	13409	445152	2.37%	0.053%
312	16.008	15.955	16.023	VV	605511	10010202	53.32%	1.196%
313	16.043	16.023	16.084	VV	788908	9572910	50.99%	1.143%
314	16.123	16.084	16.158	VV	15572	607877	3.24%	0.073%
315	16.177	16.158	16.194	VV	12803	260912	1.39%	0.031%
316	16.205	16.194	16.212	VV	12185	132141	0.70%	0.016%
317	16.248	16.212	16.270	VV	15597	468885	2.50%	0.056%
318	16.315	16.270	16.339	VV	24081	711586	3.79%	0.085%
319	16.385	16.339	16.413	VV	697806	9488315	50.54%	1.133%
320	16.418	16.413	16.443	VV	13718	222108	1.18%	0.027%
321	16.507	16.443	16.537	VV	90547	1810729	9.65%	0.216%
322	16.545	16.537	16.563	VV	13620	199731	1.06%	0.024%
323	16.581	16.563	16.590	VV	13212	191288	1.02%	0.023%
324	16.598	16.590	16.606	VV	11499	114267	0.61%	0.014%
325	16.611	16.606	16.618	VV	11736	76312	0.41%	0.009%
326	16.638	16.618	16.650	VV	11153	209805	1.12%	0.025%
327	16.705	16.650	16.729	VV	16921	626080	3.33%	0.075%
328	16.734	16.729	16.746	VV	13008	130399	0.69%	0.016%
329	16.749	16.746	16.755	VV	12818	69816	0.37%	0.008%
330	16.791	16.755	16.816	VV	19986	553840	2.95%	0.066%
331	16.825	16.816	16.853	VV	14725	281767	1.50%	0.034%
332	16.875	16.853	16.931	VV	18469	624544	3.33%	0.075%
333	16.955	16.931	16.997	VV	13305	455296	2.43%	0.054%
334	17.001	16.997	17.007	VV	10884	60579	0.32%	0.007%
335	17.030	17.007	17.066	VV	13485	404166	2.15%	0.048%
336	17.095	17.066	17.120	VV	13178	372946	1.99%	0.045%
337	17.143	17.120	17.167	VV	10394	274254	1.46%	0.033%
338	17.190	17.167	17.221	VV	13111	351552	1.87%	0.042%
339	17.243	17.221	17.249	VV	10972	167518	0.89%	0.020%
340	17.252	17.249	17.271	VV	10628	126620	0.67%	0.015%
341	17.289	17.271	17.300	VV	9868	163319	0.87%	0.020%
342	17.320	17.300	17.334	VV	12217	218119	1.16%	0.026%
343	17.354	17.334	17.364	VV	13135	217871	1.16%	0.026%
344	17.392	17.364	17.428	VV	87214	1346078	7.17%	0.161%
345	17.447	17.428	17.454	VV	9268	139090	0.74%	0.017%
346	17.489	17.454	17.506	VV	15944	377967	2.01%	0.045%
347	17.528	17.506	17.554	VV	14203	350573	1.87%	0.042%
348	17.558	17.554	17.579	VV	9670	119928	0.64%	0.014%
349	17.609	17.579	17.615	VV	8186	163611	0.87%	0.020%
350	17.640	17.615	17.665	VV	10817	278215	1.48%	0.033%
351	17.682	17.665	17.690	VV	9560	134172	0.71%	0.016%

Instrument :
FID_D
ClientSampleId :
EX-5-TPH-5MS

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 10/30/2024
Supervised By :Ankita Jodhani 10/30/2024

rteres

352	17.753	17.690	17.765	VV	628361	10159441	54.12%	1.213%
353	17.790	17.765	17.837	VV	685101	9307549	49	
354	17.856	17.837	17.890	VV	16734	373843	1	
355	17.901	17.890	17.920	VV	8621	140402	0	
356	17.927	17.920	17.931	VV	6979	45306	0	
357	17.948	17.931	17.956	VV	7580	104559	0	
358	18.006	17.956	18.045	VV	600948	9107254	48.51%	1.088%
359	18.063	18.045	18.078	VV	8187	134878	0.72%	0.016%
360	18.081	18.078	18.109	VV	6305	100030	0.53%	0.012%
361	18.143	18.109	18.157	VV	6678	162382	0.86%	0.019%
362	18.166	18.157	18.185	VV	5178	80686	0.43%	0.010%
363	18.217	18.185	18.250	VBA	76781	1135607	6.05%	0.136%

Sum of corrected areas: 837309716

Aromatic EPH 102324.M Wed Oct 30 03:19:54 2024

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

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	
Project:	NJ Soil PT	Date Received:	
Client Sample ID:	EX-5-TPH-5MSD	SDG No.:	P4495
Lab Sample ID:	P4518-05MSD	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	73.9
Sample Wt/Vol:	30.06 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
10/25/24 09:05	10/28/24 17:39	PB164396

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	42.2	E	1	0.51	1.35	mg/kg	FC067547.D
Aliphatic C12-C16	Aliphatic C12-C16	262	E	1	0.32	0.90	mg/kg	FC067547.D
Aliphatic C16-C21	Aliphatic C16-C21	302	E	1	0.41	1.35	mg/kg	FC067547.D
Aliphatic C21-C28	Aliphatic C21-C28	100	E	1	1.08	1.80	mg/kg	FC067547.D
Aliphatic C28-C40	Aliphatic C28-C40	122	E	1	2.43	2.70	mg/kg	FC067547.D
Aromatic C10-C12	Aromatic C10-C12	15.1		1	0.41	0.90	mg/kg	FD048608.D
Aromatic C12-C16	Aromatic C12-C16	79.5	E	1	0.46	1.35	mg/kg	FD048608.D
Aromatic C16-C21	Aromatic C16-C21	254	E	1	1.30	2.25	mg/kg	FD048608.D
Aromatic C21-C36	Aromatic C21-C36	86.6	E	1	2.70	3.60	mg/kg	FD048608.D
Total AliphaticEPH	Total AliphaticEPH	828			4.75	8.10	mg/kg	
Total AromaticEPH	Total AromaticEPH	435			4.86	8.10	mg/kg	
Total EPH	Total EPH	1260			9.62	16.2	mg/kg	

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

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

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

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	
Project:	NJ Soil PT	Date Received:	
Client Sample ID:	EX-5-TPH-5MSD	SDG No.:	P4495
Lab Sample ID:	P4518-05MSD	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	73.9
Sample Wt/Vol:	30.06 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FC067547.D	1	10/25/24	10/28/24	PB164396

CAS Number	Parameter		Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
Aliphatic C9-C12	Aliphatic C9-C12		42.2	E	0.51	1.35	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16		262	E	0.32	0.90	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21		302	E	0.41	1.35	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28		100	E	1.08	1.80	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40		122	E	2.43	2.70	mg/kg
SURROGATES							
3383-33-2	1-chlorooctadecane (SURR)		37.8		40 - 140	76%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)		0.00		40 - 140	0%	SPK: 50

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

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	P4518-05MSD	Acq On:	28 Oct 2024 17:39
Client Sample ID:	EX-5-TPH-5MSD	Operator:	YP/AJ
Data file:	FC067547.D	Misc:	
Instrument:	FID_C	ALS Vial:	23
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.173	6.453	63511167	468.822	300	ug/ml
Aliphatic C12-C16	6.454	9.842	384430343	2920	200	ug/ml
Aliphatic C16-C21	9.843	13.200	427089084	3360	300	ug/ml
Aliphatic C21-C28	13.201	16.853	134471664	1120	400	ug/ml
Aliphatic C28-C40	16.854	21.695	137232553	1360	600	ug/ml
Aliphatic EPH	3.173	21.695	1146734811	9220		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	12.936	12.936	4079872	37.78		ug/ml
Aliphatic C9-C28	3.173	16.853	1009502258	7860	1200	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC102824AL\
Data File : FC067547.D
Signal(s) : FID1A.ch
Acq On : 28 Oct 2024 17:39
Operator : YP/AJ
Sample : P4518-05MSD
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
EX-5-TPH-5MSD

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 12/05/2024
Supervised By :Ankita Jodhani 12/05/2024

Integration File: sample.E
Quant Time: Oct 30 03:44:08 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 18:12:58 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			
12) S 1-chlorooctadecane (S...	12.936	4079872	37.781 ug/mlm
Spiked Amount 50.000		Recovery =	75.56%
Target Compounds			
1) T n-Nonane (C9)	3.274	4520951	33.558 ug/ml
2) T n-Decane (C10)	4.340	6026490	44.232 ug/ml
4) T n-Dodecane (C12)	6.357	7180933	53.018 ug/mlm
6) T n-Tetradecane (C14)	8.154	8803691	67.070 ug/mlm
7) T n-Hexadecane (C16)	9.752	9306087	70.446 ug/mlm
8) T n-Octadecane (C18)	11.193	9619859	72.815 ug/mlm
10) T n-Eicosane (C20)	12.497	9020125	71.488 ug/mlm
11) T n-Heneicosane (C21)	13.108	7939139	64.329 ug/mlm
13) T n-Docosane (C22)	13.690	7997895	65.316 ug/mlm
14) T n-Tetracosane (C24)	14.791	7739212	63.850 ug/mlm
15) T n-Hexacosane (C26)	15.812	7592977	63.777 ug/mlm
16) T n-Octacosane (C28)	16.760	7603701	64.631 ug/mlm
17) T n-Tricontane (C30)	17.645	7586580	62.766 ug/mlm
18) T n-Dotriacontane (C32)	18.476	7429618	62.792 ug/mlm
19) T n-Tetratriacontane (C34)	19.258	8056399	76.927 ug/ml
20) T n-Hexatriacontane (C36)	19.996	7559600	83.048 ug/ml
21) T n-Octatriacontane (C38)	20.720	7539093	87.054 ug/ml
22) T n-Tetracontane (C40)	21.605	7436772	87.480 ug/ml

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

Quantitation Report (QT Reviewed)

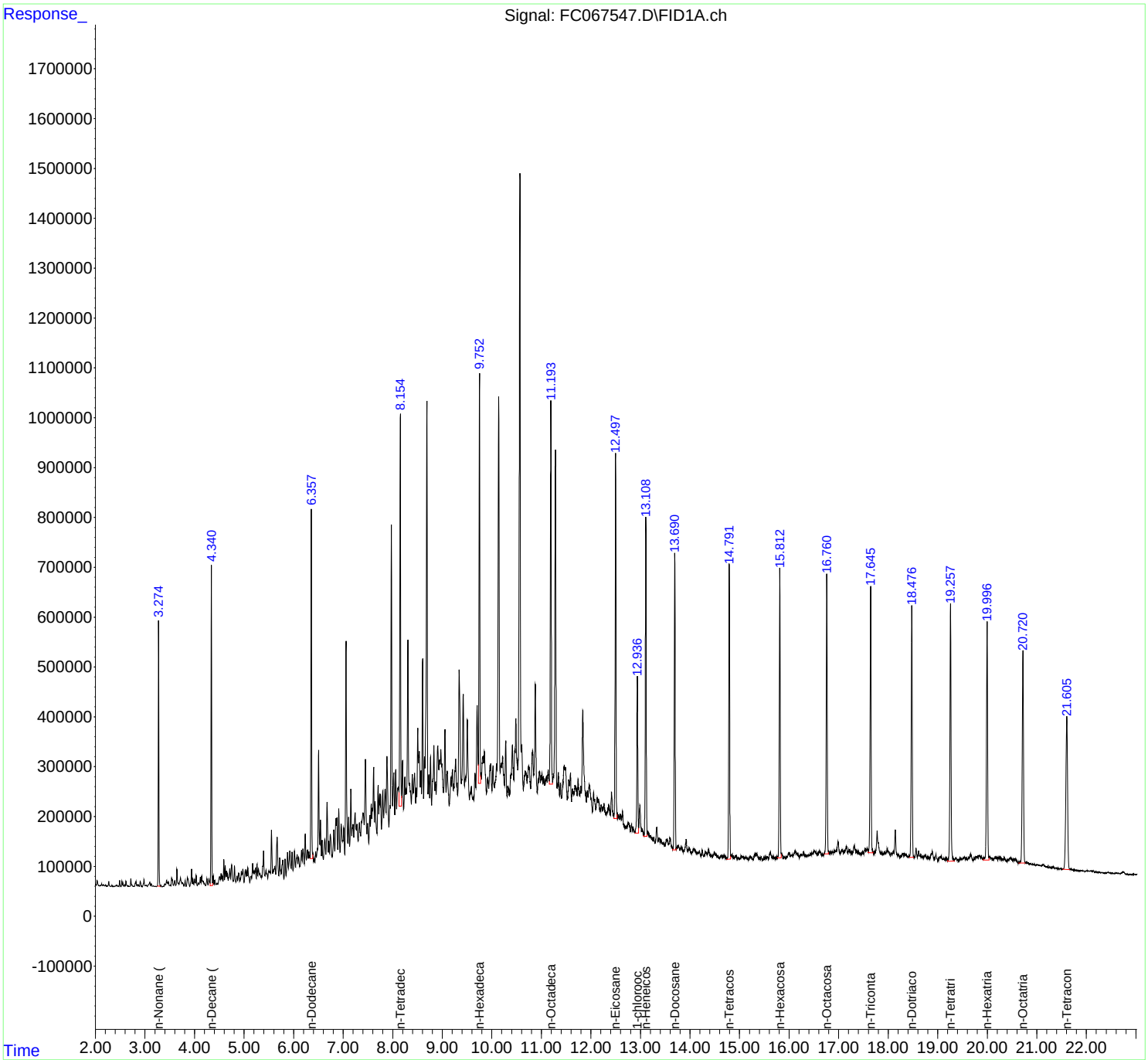
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC102824AL\
Data File : FC067547.D
Signal(s) : FID1A.ch
Acq On : 28 Oct 2024 17:39
Operator : YP/AJ
Sample : P4518-05MSD
Misc :
ALS Vial : 23 Sample Multiplier: 1

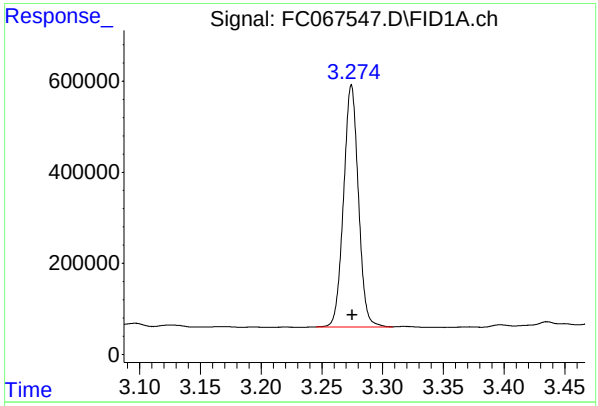
Integration File: sample.E
Quant Time: Oct 30 03:44:08 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 18:12:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

Instrument :
FID_C
ClientSampleId :
EX-5-TPH-5MSD

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 12/05/2024
Supervised By :Ankita Jodhani 12/05/2024





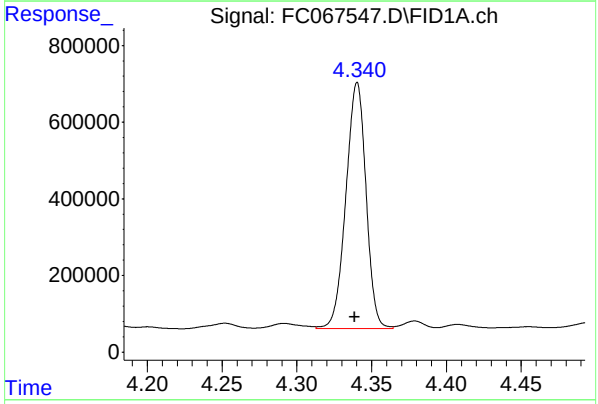
#1 n-Nonane (C9)

R.T.: 3.274 min
Delta R.T.: 0.000 mi
Response: 4520951
Conc: 33.56 ug/m

Instrument :
FID_C
ClientSampleId :
EX-5-TPH-5MSD

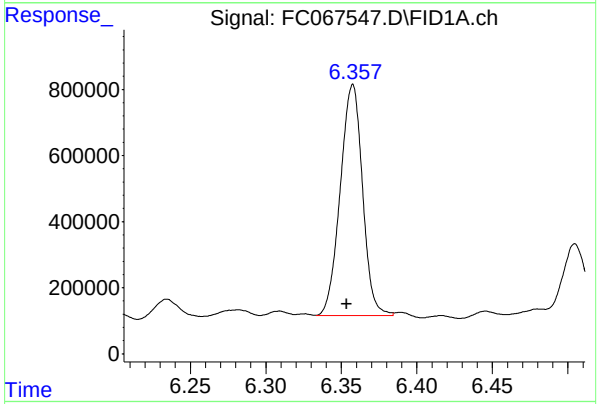
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/05/2024
Supervised By :Ankita Jodhani 12/05/2024



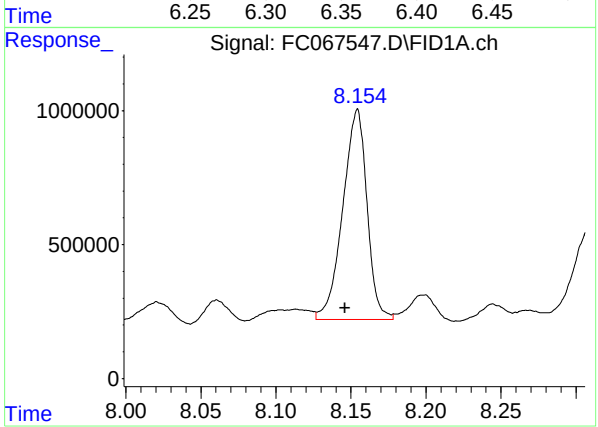
#2 n-Decane (C10)

R.T.: 4.340 min
Delta R.T.: 0.002 min
Response: 6026490
Conc: 44.23 ug/ml



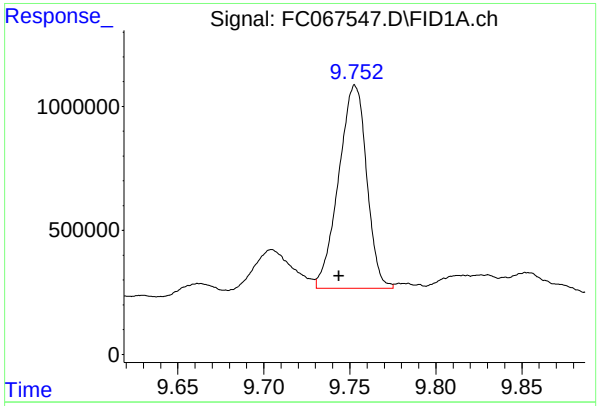
#4 n-Dodecane (C12)

R.T.: 6.357 min
Delta R.T.: 0.004 min
Response: 7180933
Conc: 53.02 ug/ml m



#6 n-Tetradecane (C14)

R.T.: 8.154 min
Delta R.T.: 0.008 min
Response: 8803691
Conc: 67.07 ug/ml m



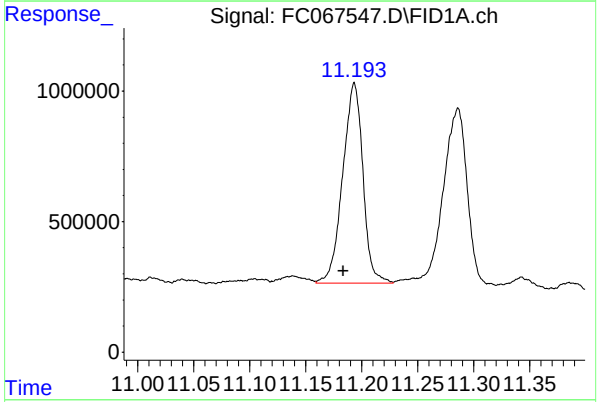
#7 n-Hexadecane (C16)

R.T.: 9.752 min
Delta R.T.: 0.009 mi
Response: 9306087
Conc: 70.45 ug/m

Instrument :
FID_C
ClientSampleId :
EX-5-TPH-5MSD

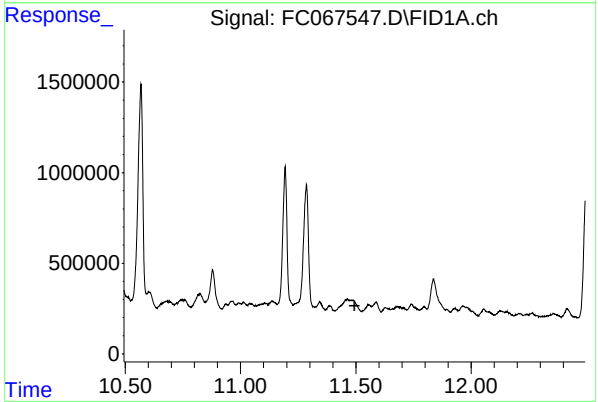
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/05/2024
Supervised By :Ankita Jodhani 12/05/2024



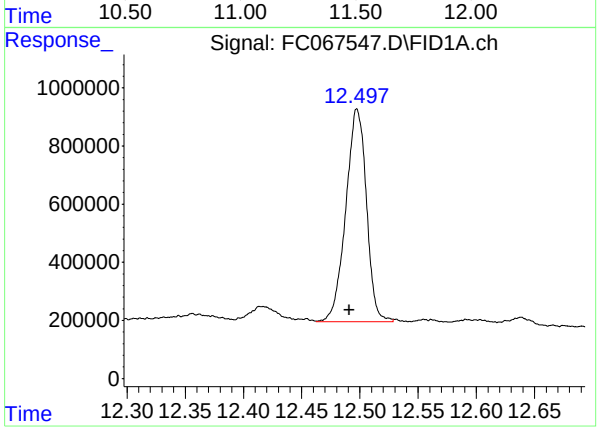
#8 n-Octadecane (C18)

R.T.: 11.193 min
Delta R.T.: 0.009 min
Response: 9619859
Conc: 72.82 ug/ml m



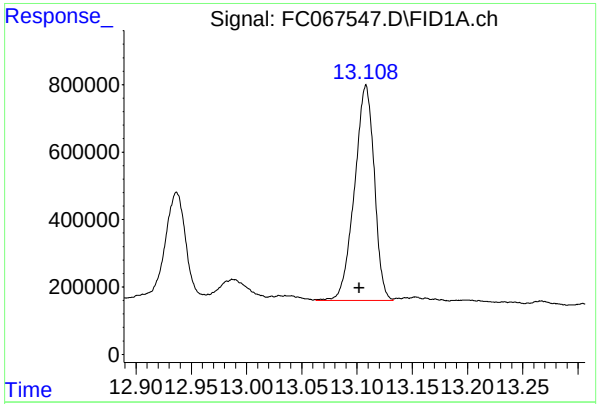
#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.494 min
Response: 0
Conc: N.D.



#10 n-Eicosane (C20)

R.T.: 12.497 min
Delta R.T.: 0.006 min
Response: 9020125
Conc: 71.49 ug/ml m



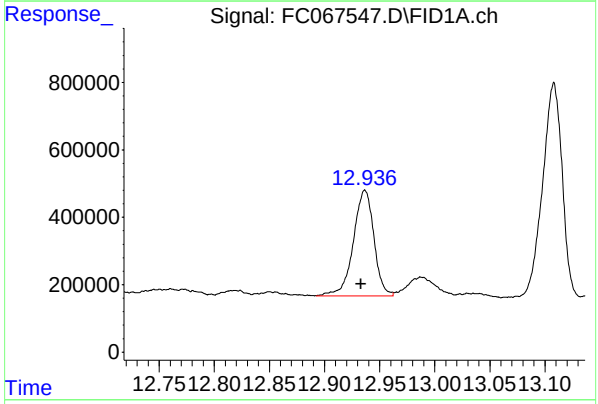
#11 n-Heneicosane (C21)

R.T.: 13.108 min
Delta R.T.: 0.006 mi
Response: 7939139
Conc: 64.33 ug/m

Instrument :
FID_C
ClientSampleId :
EX-5-TPH-5MSD

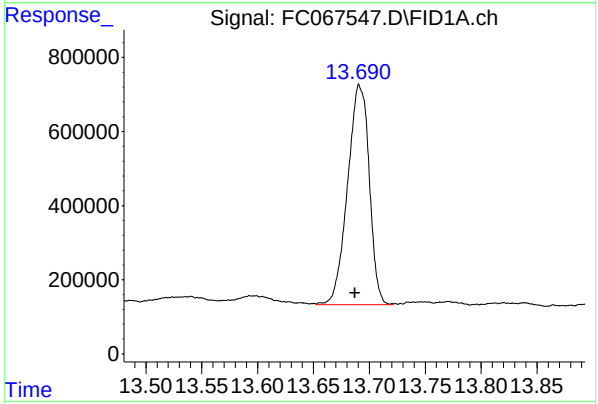
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/05/2024
Supervised By :Ankita Jodhani 12/05/2024



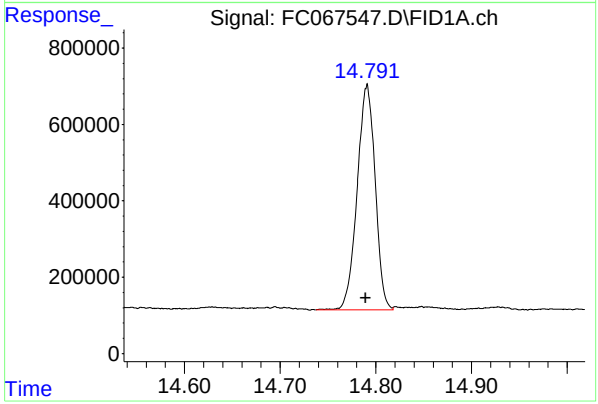
#12 1-chlorooctadecane (SURR)

R.T.: 12.936 min
Delta R.T.: 0.003 min
Response: 4079872
Conc: 37.78 ug/ml m



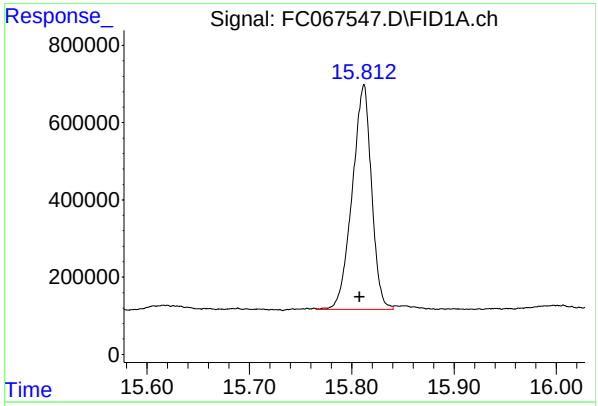
#13 n-Docosane (C22)

R.T.: 13.690 min
Delta R.T.: 0.003 min
Response: 7997895
Conc: 65.32 ug/ml m



#14 n-Tetracosane (C24)

R.T.: 14.791 min
Delta R.T.: 0.002 min
Response: 7739212
Conc: 63.85 ug/ml m



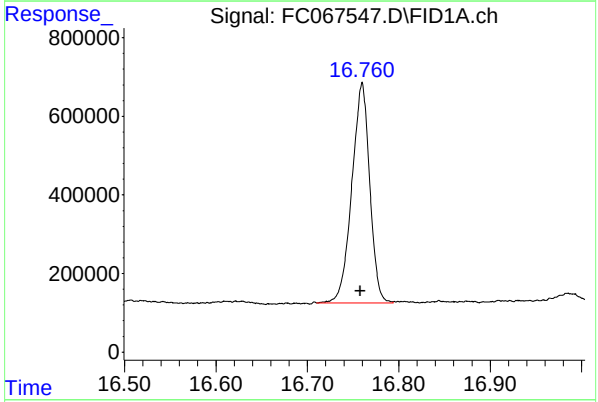
#15 n-Hexacosane (C26)

R.T.: 15.812 min
Delta R.T.: 0.004 mi
Response: 7592977
Conc: 63.78 ug/m

Instrument :
FID_C
ClientSampleId :
EX-5-TPH-5MSD

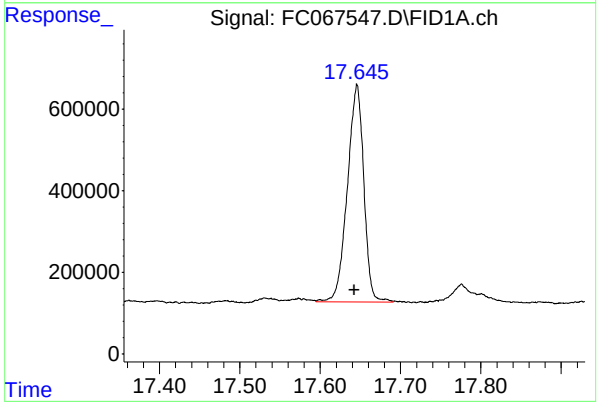
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/05/2024
Supervised By :Ankita Jodhani 12/05/2024



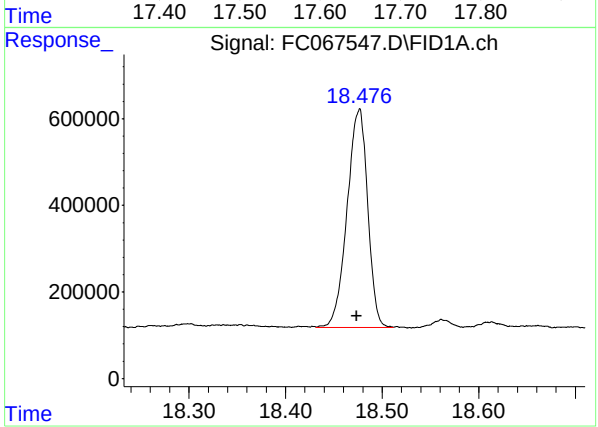
#16 n-Octacosane (C28)

R.T.: 16.760 min
Delta R.T.: 0.002 min
Response: 7603701
Conc: 64.63 ug/ml m



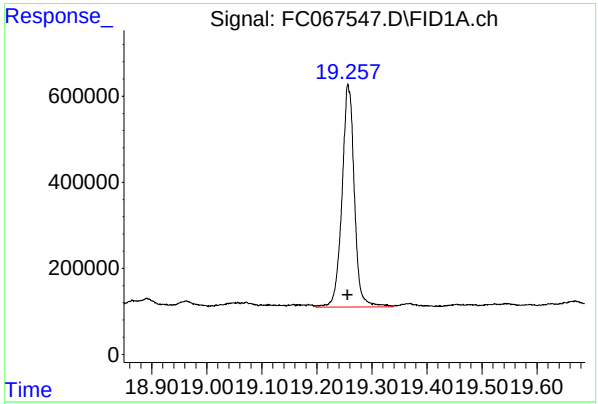
#17 n-Tricontane (C30)

R.T.: 17.645 min
Delta R.T.: 0.003 min
Response: 7586580
Conc: 62.77 ug/ml m



#18 n-Dotriacontane (C32)

R.T.: 18.476 min
Delta R.T.: 0.003 min
Response: 7429618
Conc: 62.79 ug/ml m



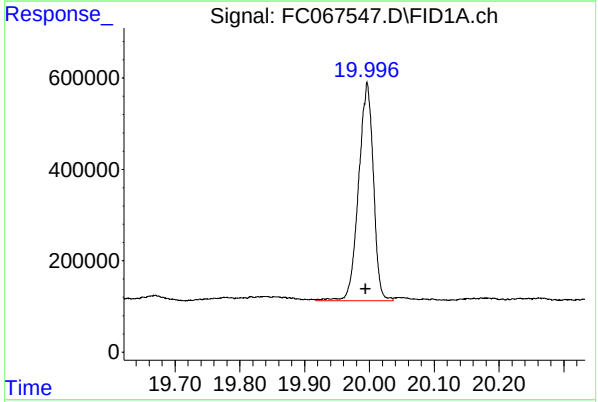
#19 n-Tetratriacontane (C34)

R.T.: 19.258 min
Delta R.T.: 0.001 min
Response: 8056399
Conc: 76.93 ug/ml

Instrument :
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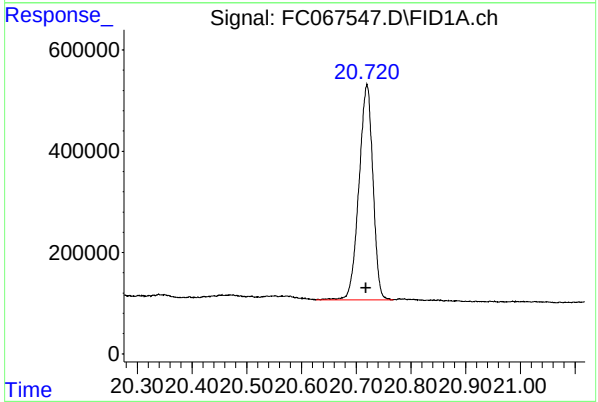
Manual Integrations
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Reviewed By :Yogesh Patel 12/05/2024
Supervised By :Ankita Jodhani 12/05/2024



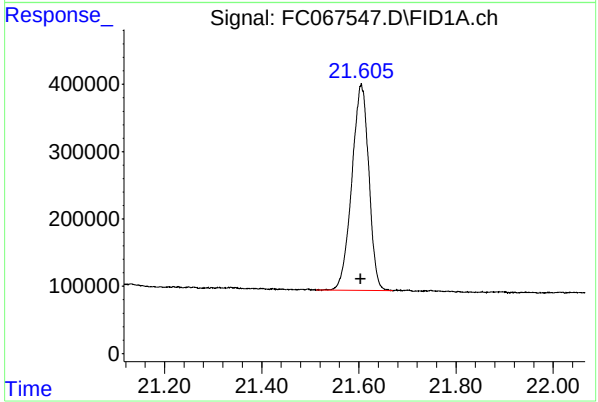
#20 n-Hexatriacontane (C36)

R.T.: 19.996 min
Delta R.T.: 0.002 min
Response: 7559600
Conc: 83.05 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 20.720 min
Delta R.T.: 0.002 min
Response: 7539093
Conc: 87.05 ug/ml



#22 n-Tetracontane (C40)

R.T.: 21.605 min
Delta R.T.: 0.002 min
Response: 7436772
Conc: 87.48 ug/ml

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Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 12/05/2024
Supervised By :Ankita Jodhani 12/05/2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC10282
Data File : FC067547.D
Signal(s) : FID1A.ch
Acq On : 28 Oct 2024 17:39
Sample : P4518-05MSD
Misc :
ALS Vial : 23 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 102324.M
Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.168	3.154	3.184	PH	1478	14590	0.04%	0.001%
2	3.193	3.184	3.206	PV	497	2721	0.01%	0.000%
3	3.220	3.206	3.233	PV	463	3866	0.01%	0.000%
4	3.274	3.233	3.309	VV	531673	4559252	14.01%	0.397%
5	3.319	3.309	3.349	VV	2099	22944	0.07%	0.002%
6	3.372	3.349	3.381	PV	1213	11231	0.03%	0.001%
7	3.398	3.381	3.409	VV	5798	58370	0.18%	0.005%
8	3.436	3.409	3.461	VV	12416	225198	0.69%	0.020%
9	3.474	3.461	3.496	VV	9470	117727	0.36%	0.010%
10	3.510	3.496	3.520	VV	2874	27936	0.09%	0.002%
11	3.539	3.520	3.574	VV	17212	300262	0.92%	0.026%
12	3.600	3.574	3.621	VV	11859	174145	0.54%	0.015%
13	3.645	3.621	3.687	VV	35200	463161	1.42%	0.040%
14	3.717	3.687	3.792	VV	17721	500583	1.54%	0.044%
15	3.810	3.792	3.830	VV	11837	109909	0.34%	0.010%
16	3.858	3.830	3.904	VV	17888	350065	1.08%	0.031%
17	3.940	3.904	3.956	PV	35041	403642	1.24%	0.035%
18	3.968	3.956	3.985	VV	15101	160576	0.49%	0.014%
19	4.001	3.985	4.017	VV	14317	174702	0.54%	0.015%
20	4.034	4.017	4.055	VV	22008	236844	0.73%	0.021%
21	4.075	4.055	4.090	VV	6720	85018	0.26%	0.007%
22	4.117	4.090	4.130	VV	18213	232190	0.71%	0.020%
23	4.144	4.130	4.223	VV	20243	469228	1.44%	0.041%
24	4.252	4.223	4.272	VV	14916	201967	0.62%	0.018%
25	4.292	4.272	4.313	VV	14297	209060	0.64%	0.018%
26	4.340	4.313	4.365	VV	645666	6049087	18.59%	0.527%
27	4.379	4.365	4.394	VV	20530	207598	0.64%	0.018%
28	4.408	4.394	4.431	VV	11471	146959	0.45%	0.013%
29	4.455	4.431	4.469	VV	5399	88958	0.27%	0.008%
30	4.503	4.469	4.520	VV	18198	374881	1.15%	0.033%
31	4.536	4.520	4.550	VV	24751	323772	1.00%	0.028%
32	4.561	4.550	4.576	VV	19850	242598	0.75%	0.021%
33	4.592	4.576	4.607	VV	52954	543330	1.67%	0.047%
34	4.620	4.607	4.634	VV	40115	441086	1.36%	0.038%
35	4.645	4.634	4.658	VV	29270	355384	1.09%	0.031%
36	4.667	4.658	4.681	VV	24534	250704	0.77%	0.022%

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					rteres			
37	4.712	4.681	4.728	VV	34003	600042	1.84%	0.052%
38	4.750	4.728	4.787	VV	42247	822574	2	
39	4.807	4.787	4.835	VV	39839	541238	1	
40	4.858	4.835	4.872	VV	18980	283047	0	
41	4.893	4.872	4.912	VV	25285	435549	1	
42	4.946	4.912	4.958	VV	28325	493933	1	
43	4.976	4.958	5.000	VV	33241	531207	1.63%	0.046%
44	5.026	5.000	5.041	VV	31449	518952	1.59%	0.045%
45	5.053	5.041	5.063	VV	29106	309749	0.95%	0.027%
46	5.077	5.063	5.116	VV	35408	665216	2.04%	0.058%
47	5.142	5.116	5.154	VV	18293	331197	1.02%	0.029%
48	5.173	5.154	5.204	VV	43866	864111	2.66%	0.075%
49	5.231	5.204	5.246	VV	34732	667588	2.05%	0.058%
50	5.262	5.246	5.277	VV	42483	534732	1.64%	0.047%
51	5.291	5.277	5.338	VV	32213	880134	2.70%	0.077%
52	5.351	5.338	5.360	VV	19211	226504	0.70%	0.020%
53	5.394	5.360	5.421	VV	69000	1310178	4.03%	0.114%
54	5.443	5.421	5.478	VV	30412	780708	2.40%	0.068%
55	5.498	5.478	5.508	VV	28406	407835	1.25%	0.036%
56	5.518	5.508	5.531	VV	27496	373798	1.15%	0.033%
57	5.554	5.531	5.579	VV	109155	1619171	4.98%	0.141%
58	5.589	5.579	5.596	VV	29506	285595	0.88%	0.025%
59	5.621	5.596	5.639	VV	37035	797602	2.45%	0.070%
60	5.668	5.639	5.701	VV	95820	1972804	6.06%	0.172%
61	5.720	5.701	5.751	VV	54294	983053	3.02%	0.086%
62	5.781	5.751	5.805	VV	50035	1080183	3.32%	0.094%
63	5.828	5.805	5.848	VV	51595	788817	2.42%	0.069%
64	5.878	5.848	5.897	VV	65006	1232954	3.79%	0.107%
65	5.924	5.897	5.950	VV	67304	1563267	4.80%	0.136%
66	5.970	5.950	5.989	VV	65578	1038935	3.19%	0.091%
67	6.018	5.989	6.039	VV	67533	1414346	4.35%	0.123%
68	6.072	6.039	6.086	VV	60369	1409953	4.33%	0.123%
69	6.102	6.086	6.124	VV	54732	1072889	3.30%	0.094%
70	6.161	6.124	6.175	VV	69267	1525519	4.69%	0.133%
71	6.190	6.175	6.215	VV	71184	1412128	4.34%	0.123%
72	6.235	6.215	6.258	VV	102035	1786569	5.49%	0.156%
73	6.280	6.258	6.297	VV	69160	1400568	4.30%	0.122%
74	6.309	6.297	6.331	VV	65285	1190659	3.66%	0.104%
75	6.357	6.331	6.404	VV	752747	9505630	29.21%	0.829%
76	6.416	6.404	6.428	VV	51509	693668	2.13%	0.060%
77	6.446	6.428	6.459	VV	65081	1033611	3.18%	0.090%
78	6.505	6.459	6.528	VV	268887	4848589	14.90%	0.423%
79	6.543	6.528	6.563	VV	128659	1998232	6.14%	0.174%
80	6.575	6.563	6.600	VV	87860	1478278	4.54%	0.129%
81	6.630	6.600	6.651	VV	90165	2195538	6.75%	0.191%
82	6.676	6.651	6.701	VV	163765	3162701	9.72%	0.276%
83	6.712	6.701	6.724	VV	86122	1030726	3.17%	0.090%
84	6.741	6.724	6.775	VV	99171	2386413	7.33%	0.208%
85	6.812	6.775	6.831	VV	108621	2629242	8.08%	0.229%
86	6.873	6.831	6.892	VV	133235	3872315	11.90%	0.338%
87	6.913	6.892	6.938	VV	149589	2785510	8.56%	0.243%
88	6.962	6.938	6.984	VV	119055	2677914	8.23%	0.233%
89	7.013	6.984	7.033	VV	112352	2595283	7.98%	0.226%

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90	7.058	7.033	7.094	VV	484741	7666004	23.56%	0.668%
91	7.112	7.094	7.131	VV	133209	2296581	7	
92	7.157	7.131	7.175	VV	190401	3295836	10	
93	7.200	7.175	7.215	VV	119361	2585899	7	
94	7.241	7.215	7.267	VV	142073	3738780	11	
95	7.279	7.267	7.302	VV	118343	2217822	6	
96	7.327	7.302	7.354	VV	122062	3262056	10.03%	0.284%
97	7.402	7.354	7.424	VV	141399	5333629	16.39%	0.465%
98	7.451	7.424	7.479	VV	248478	5458441	16.78%	0.476%
99	7.494	7.479	7.518	VV	119954	2432730	7.48%	0.212%
100	7.538	7.518	7.550	VV	136419	2224940	6.84%	0.194%
101	7.566	7.550	7.579	VV	158941	2361803	7.26%	0.206%
102	7.616	7.579	7.632	VV	230899	5318540	16.35%	0.464%
103	7.645	7.632	7.681	VV	162955	3917136	12.04%	0.341%
104	7.705	7.681	7.721	VV	195430	3538244	10.87%	0.308%
105	7.735	7.721	7.746	VV	177747	2493192	7.66%	0.217%
106	7.756	7.746	7.774	VV	179527	2528652	7.77%	0.220%
107	7.800	7.774	7.818	VV	185384	3873059	11.90%	0.338%
108	7.848	7.818	7.865	VV	188692	4591771	14.11%	0.400%
109	7.885	7.865	7.924	VV	252120	6392535	19.65%	0.557%
110	7.974	7.924	7.999	VV	715102	12709792	39.06%	1.108%
111	8.021	7.999	8.043	VV	219008	4788693	14.72%	0.417%
112	8.061	8.043	8.080	VV	225691	4110844	12.63%	0.358%
113	8.113	8.080	8.128	VV	191806	5143068	15.81%	0.448%
114	8.154	8.128	8.179	VV	939952	13536826	41.60%	1.180%
115	8.198	8.179	8.221	VV	245324	4926504	15.14%	0.429%
116	8.245	8.221	8.259	VV	211207	4140143	12.72%	0.361%
117	8.268	8.259	8.279	VV	187296	2217093	6.81%	0.193%
118	8.308	8.279	8.333	VV	486416	9382040	28.83%	0.818%
119	8.340	8.333	8.377	VV	200336	4906103	15.08%	0.428%
120	8.397	8.377	8.418	VV	214495	4598276	14.13%	0.401%
121	8.442	8.418	8.464	VV	220095	5425566	16.67%	0.473%
122	8.478	8.464	8.487	VV	189913	2397438	7.37%	0.209%
123	8.507	8.487	8.520	VV	308382	4918380	15.12%	0.429%
124	8.537	8.520	8.556	VV	263408	5193329	15.96%	0.453%
125	8.570	8.556	8.583	VV	224503	3319739	10.20%	0.289%
126	8.604	8.583	8.625	VV	446457	7308845	22.46%	0.637%
127	8.643	8.625	8.651	VV	252836	3505807	10.77%	0.306%
128	8.691	8.651	8.714	VV	956543	17419429	53.54%	1.519%
129	8.731	8.714	8.748	VV	215113	3924293	12.06%	0.342%
130	8.765	8.748	8.787	VV	251864	4750583	14.60%	0.414%
131	8.833	8.787	8.851	VV	273671	8098438	24.89%	0.706%
132	8.863	8.851	8.878	VV	201109	3092251	9.50%	0.270%
133	8.910	8.878	8.932	VV	273393	7556143	23.22%	0.659%
134	8.948	8.932	8.958	VV	243498	3789411	11.65%	0.330%
135	8.973	8.958	9.024	VV	263692	9009000	27.69%	0.785%
136	9.056	9.024	9.079	VV	303250	7490968	23.02%	0.653%
137	9.099	9.079	9.141	VV	220045	7113882	21.86%	0.620%
138	9.174	9.141	9.186	VV	208490	4985370	15.32%	0.435%
139	9.206	9.186	9.223	VV	224550	4466621	13.73%	0.389%
140	9.233	9.223	9.241	VV	194500	2104287	6.47%	0.183%
141	9.272	9.241	9.311	VV	244994	8835788	27.16%	0.770%

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142	9.343	9.311	9.387	VV	423499	12792943	39.32%	1.115%
143	9.425	9.387	9.451	VV	376456	10159218	31	
144	9.507	9.451	9.550	VV	323537	13350297	41	
145	9.586	9.550	9.624	VV	190526	7793006	23	
146	9.663	9.624	9.678	VV	216048	6067833	18	
147	9.705	9.678	9.728	VV	353302	8086828	24	
148	9.753	9.728	9.793	VV	1021619	17295872	53.16%	1.508%
149	9.827	9.793	9.839	VV	250086	6531005	20.07%	0.569%
150	9.853	9.839	9.891	VV	260702	7070981	21.73%	0.616%
151	9.920	9.891	9.939	VV	208404	5564277	17.10%	0.485%
152	9.979	9.939	10.003	VV	233114	8125817	24.97%	0.708%
153	10.024	10.003	10.058	VV	231294	6683314	20.54%	0.583%
154	10.097	10.058	10.106	VV	233752	6114384	18.79%	0.533%
155	10.141	10.106	10.169	VV	971604	19060262	58.58%	1.662%
156	10.217	10.169	10.257	VV	250706	11862937	36.46%	1.034%
157	10.282	10.257	10.308	VV	280992	6849375	21.05%	0.597%
158	10.326	10.308	10.358	VV	191712	5366913	16.49%	0.468%
159	10.417	10.358	10.448	VV	272781	11829226	36.36%	1.031%
160	10.486	10.448	10.524	VV	325192	11921207	36.64%	1.039%
161	10.568	10.524	10.637	VV	1415114	32537737	100.00%	2.836%
162	10.679	10.637	10.714	VV	218808	9567506	29.40%	0.834%
163	10.746	10.714	10.788	VV	228127	9307201	28.60%	0.811%
164	10.824	10.788	10.847	VV	259807	8196641	25.19%	0.715%
165	10.879	10.847	10.921	VV	392716	11393925	35.02%	0.993%
166	10.963	10.921	10.980	VV	217950	7204028	22.14%	0.628%
167	10.992	10.980	11.003	VV	209739	2874241	8.83%	0.251%
168	11.013	11.003	11.031	VV	211777	3386872	10.41%	0.295%
169	11.041	11.031	11.071	VV	206762	4776586	14.68%	0.416%
170	11.105	11.071	11.120	VV	208643	5894800	18.12%	0.514%
171	11.138	11.120	11.158	VV	219534	4886872	15.02%	0.426%
172	11.193	11.158	11.229	VV	958109	17775977	54.63%	1.550%
173	11.285	11.229	11.321	VV	853265	20496314	62.99%	1.787%
174	11.343	11.321	11.368	VV	212645	5394573	16.58%	0.470%
175	11.386	11.368	11.408	VV	193766	4399594	13.52%	0.384%
176	11.463	11.408	11.525	VV	230058	13964583	42.92%	1.217%
177	11.555	11.525	11.569	VV	198299	4888455	15.02%	0.426%
178	11.587	11.569	11.610	VV	212844	4687798	14.41%	0.409%
179	11.628	11.610	11.651	VV	182289	4280487	13.16%	0.373%
180	11.679	11.651	11.721	VV	188899	7579985	23.30%	0.661%
181	11.741	11.721	11.775	VV	201669	5967396	18.34%	0.520%
182	11.796	11.775	11.808	VV	187172	3475859	10.68%	0.303%
183	11.837	11.808	11.910	VV	338406	13524113	41.56%	1.179%
184	11.928	11.910	11.948	VV	177511	3834924	11.79%	0.334%
185	11.965	11.948	12.030	VV	189843	8386508	25.77%	0.731%
186	12.055	12.030	12.101	VV	174226	6596320	20.27%	0.575%
187	12.127	12.101	12.186	VV	161241	7719698	23.73%	0.673%
188	12.209	12.186	12.226	VV	149150	3457849	10.63%	0.301%
189	12.265	12.226	12.302	VV	151677	6422619	19.74%	0.560%
190	12.357	12.302	12.391	VV	148054	7364820	22.63%	0.642%
191	12.417	12.391	12.463	VV	173295	6244105	19.19%	0.544%
192	12.498	12.463	12.543	VV	854868	14886693	45.75%	1.298%
193	12.557	12.543	12.576	VV	126900	2531472	7.78%	0.221%
194	12.593	12.576	12.618	VV	127601	3081834	9.47%	0.269%

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Reviewed By :Yogesh Patel 12/05/2024
Supervised By :Ankita Jodhani 12/05/2024

195	12.638	12.618	12.731	VV	136315	7606289	23.38%	0.663%
196	12.760	12.731	12.801	VV	113283	4482420	13	
197	12.819	12.801	12.834	VV	107823	2064771	6	
198	12.851	12.834	12.890	VV	104002	3281191	10	
199	12.937	12.890	12.963	VV	406684	8123489	24	
200	12.988	12.963	13.021	VV	147573	4148500	12	
201	13.033	13.021	13.062	VV	98430	2331573	7.17%	0.203%
202	13.108	13.062	13.134	VV	721329	11638516	35.77%	1.015%
203	13.152	13.134	13.184	VV	94689	2698586	8.29%	0.235%
204	13.199	13.184	13.251	VV	85743	3276671	10.07%	0.286%
205	13.267	13.251	13.292	VV	82733	1898096	5.83%	0.165%
206	13.328	13.292	13.356	VV	101638	3274389	10.06%	0.285%
207	13.374	13.356	13.396	VV	81493	1853083	5.70%	0.162%
208	13.414	13.396	13.495	VV	76247	4229988	13.00%	0.369%
209	13.538	13.495	13.566	VV	78180	3113950	9.57%	0.271%
210	13.596	13.566	13.648	VV	80837	3448794	10.60%	0.301%
211	13.692	13.648	13.726	VV	649443	10665960	32.78%	0.930%
212	13.748	13.726	13.758	VV	64020	1210382	3.72%	0.106%
213	13.770	13.758	13.791	VV	65547	1206129	3.71%	0.105%
214	13.821	13.791	13.834	VV	61668	1539425	4.73%	0.134%
215	13.838	13.834	13.873	VV	61544	1305899	4.01%	0.114%
216	13.921	13.873	13.964	VV	77602	3356697	10.32%	0.293%
217	13.983	13.964	14.040	VV	61021	2470213	7.59%	0.215%
218	14.075	14.040	14.154	VV	58862	3673660	11.29%	0.320%
219	14.160	14.154	14.175	VV	51624	618447	1.90%	0.054%
220	14.190	14.175	14.223	VV	54076	1408023	4.33%	0.123%
221	14.246	14.223	14.271	VV	55102	1397278	4.29%	0.122%
222	14.282	14.271	14.288	VV	44317	444368	1.37%	0.039%
223	14.316	14.288	14.347	VV	51697	1714475	5.27%	0.149%
224	14.374	14.347	14.447	VV	57036	2852577	8.77%	0.249%
225	14.493	14.447	14.511	VV	51062	1764290	5.42%	0.154%
226	14.526	14.511	14.604	VV	46850	2372030	7.29%	0.207%
227	14.628	14.604	14.668	VV	44354	1594778	4.90%	0.139%
228	14.695	14.668	14.738	VV	44777	1713069	5.26%	0.149%
229	14.791	14.738	14.841	VV	624487	10095381	31.03%	0.880%
230	14.849	14.841	14.888	VV	44935	1160965	3.57%	0.101%
231	14.927	14.888	14.957	VV	43996	1663590	5.11%	0.145%
232	14.976	14.957	15.018	VV	38706	1377004	4.23%	0.120%
233	15.037	15.018	15.100	VV	42326	1975554	6.07%	0.172%
234	15.120	15.100	15.184	VV	40250	1891040	5.81%	0.165%
235	15.217	15.184	15.270	VV	41484	1981761	6.09%	0.173%
236	15.330	15.270	15.416	VV	45947	3567413	10.96%	0.311%
237	15.434	15.416	15.464	VV	40062	1061006	3.26%	0.092%
238	15.489	15.464	15.500	VV	36912	776010	2.38%	0.068%
239	15.523	15.500	15.537	VV	37611	814114	2.50%	0.071%
240	15.562	15.537	15.582	VV	39993	1037940	3.19%	0.090%
241	15.617	15.582	15.668	VV	47612	2151310	6.61%	0.188%
242	15.687	15.668	15.734	VV	39433	1497563	4.60%	0.131%
243	15.811	15.734	15.912	VV	613062	11712314	36.00%	1.021%
244	15.999	15.912	16.028	VV	47029	2853932	8.77%	0.249%
245	16.039	16.028	16.048	VV	42442	502400	1.54%	0.044%
246	16.063	16.048	16.074	VV	41911	670738	2.06%	0.058%

Instrument :
FID_C
ClientSampleId :
EX-5-TPH-5MSD

rteres

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 12/05/2024
Supervised By :Ankita Jodhani 12/05/2024

247	16.127	16.074	16.204	VV	51302	3503199	10.77%	0.305%
248	16.249	16.204	16.264	VV	43462	1493202	4	
249	16.287	16.264	16.304	VV	48646	1068780	3	
250	16.318	16.304	16.357	VV	42165	1286745	3	
251	16.385	16.357	16.395	VV	42660	956004	2	
252	16.506	16.395	16.581	VV	51733	5044841	15	
253	16.612	16.581	16.668	VV	48170	2343789	7.20%	0.204%
254	16.760	16.668	16.823	VV	600537	11716231	36.01%	1.021%
255	16.845	16.823	16.864	VV	49415	1142838	3.51%	0.100%
256	16.876	16.864	16.889	VV	48184	687380	2.11%	0.060%
257	16.912	16.889	16.925	VV	49139	1030744	3.17%	0.090%
258	16.986	16.925	17.041	VV	68152	3664461	11.26%	0.319%
259	17.069	17.041	17.110	VV	51183	1991660	6.12%	0.174%
260	17.158	17.110	17.187	VV	59028	2358033	7.25%	0.206%
261	17.208	17.187	17.254	VV	50595	1936761	5.95%	0.169%
262	17.267	17.254	17.276	VV	46713	598210	1.84%	0.052%
263	17.315	17.276	17.381	VV	60222	3139832	9.65%	0.274%
264	17.396	17.381	17.451	VV	47820	1880691	5.78%	0.164%
265	17.482	17.451	17.506	VV	47868	1485432	4.57%	0.129%
266	17.532	17.506	17.553	VV	54564	1374182	4.22%	0.120%
267	17.574	17.553	17.603	VV	53590	1512018	4.65%	0.132%
268	17.646	17.603	17.731	VV	570176	10974556	33.73%	0.957%
269	17.776	17.731	17.861	VV	86620	4331194	13.31%	0.378%
270	17.874	17.861	17.905	VV	44341	1113145	3.42%	0.097%
271	17.932	17.905	17.950	VV	45188	1184914	3.64%	0.103%
272	17.977	17.950	18.041	VV	52667	2500006	7.68%	0.218%
273	18.058	18.041	18.075	VV	43473	831901	2.56%	0.073%
274	18.142	18.075	18.192	VV	89809	3595615	11.05%	0.313%
275	18.209	18.192	18.244	VV	40547	1186765	3.65%	0.103%
276	18.262	18.244	18.277	VV	38635	732098	2.25%	0.064%
277	18.299	18.277	18.317	VV	42523	960084	2.95%	0.084%
278	18.329	18.317	18.408	VV	39875	2063312	6.34%	0.180%
279	18.476	18.408	18.530	VV	534109	9951187	30.58%	0.867%
280	18.562	18.530	18.584	VV	51948	1332159	4.09%	0.116%
281	18.612	18.584	18.641	VV	45485	1348927	4.15%	0.118%
282	18.661	18.641	18.678	VV	38065	805205	2.47%	0.070%
283	18.698	18.678	18.711	VV	34660	675711	2.08%	0.059%
284	18.741	18.711	18.774	VV	38338	1345114	4.13%	0.117%
285	18.787	18.774	18.801	VV	33508	522353	1.61%	0.046%
286	18.816	18.801	18.834	VV	32957	655047	2.01%	0.057%
287	18.891	18.834	18.938	VV	45419	2240313	6.89%	0.195%
288	18.963	18.938	19.008	VV	39231	1365610	4.20%	0.119%
289	19.071	19.008	19.108	VV	36195	1907471	5.86%	0.166%
290	19.111	19.108	19.144	VV	29885	637053	1.96%	0.056%
291	19.158	19.144	19.199	VV	30535	956719	2.94%	0.083%
292	19.258	19.199	19.338	VV	535548	10142467	31.17%	0.884%
293	19.368	19.338	19.426	VV	32367	1509273	4.64%	0.132%
294	19.454	19.426	19.471	VV	30616	770588	2.37%	0.067%
295	19.478	19.471	19.496	VV	29723	439944	1.35%	0.038%
296	19.545	19.496	19.571	VV	32151	1352542	4.16%	0.118%
297	19.587	19.571	19.601	VV	30078	521581	1.60%	0.045%
298	19.669	19.601	19.715	VV	37757	2168145	6.66%	0.189%
299	19.778	19.715	19.798	VV	33324	1510765	4.64%	0.132%

Instrument :
FID_C
ClientSampleId :
EX-5-TPH-5MSD

Manual IntegrationsAPPROVED

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rteres

300	19.840	19.798	19.924	VV	35535	2450622	7.53%	0.214%
301	19.996	19.924	20.121	VV	502386	10814499	33	
302	20.176	20.121	20.211	VV	31175	1590492	4	
303	20.264	20.211	20.298	VV	30898	1527428	4	
304	20.305	20.298	20.315	VV	27640	294107	0	
305	20.341	20.315	20.386	VV	29494	1149340	3	
306	20.395	20.386	20.408	VV	25104	309631	0.95%	0.027%
307	20.471	20.408	20.499	VV	28535	1466269	4.51%	0.128%
308	20.507	20.499	20.523	VV	25831	374167	1.15%	0.033%
309	20.573	20.523	20.633	VV	26744	1569014	4.82%	0.137%
310	20.720	20.633	20.768	VV	445248	9065466	27.86%	0.790%
311	20.781	20.768	20.826	VV	20470	678059	2.08%	0.059%
312	20.838	20.826	20.848	VV	18170	230964	0.71%	0.020%
313	20.850	20.848	20.904	VV	18274	562530	1.73%	0.049%
314	20.906	20.904	20.974	VV	15871	625444	1.92%	0.055%
315	20.987	20.974	21.068	VV	15160	802879	2.47%	0.070%
316	21.130	21.068	21.239	VV	15071	1233159	3.79%	0.107%
317	21.249	21.239	21.271	VV	10184	186020	0.57%	0.016%
318	21.297	21.271	21.321	VV	9230	262238	0.81%	0.023%
319	21.336	21.321	21.366	VV	9439	230057	0.71%	0.020%
320	21.375	21.366	21.468	VV	7779	424745	1.31%	0.037%
321	21.495	21.468	21.535	VV	6668	236114	0.73%	0.021%
322	21.605	21.535	21.691	VV	310009	7858141	24.15%	0.685%
323	21.700	21.691	21.740	VV	4785	110428	0.34%	0.010%
324	21.748	21.740	21.776	VV	4344	74581	0.23%	0.007%
325	21.783	21.776	21.844	VV	3132	84812	0.26%	0.007%
326	21.854	21.844	21.862	VV	1961	16644	0.05%	0.001%
327	21.895	21.862	21.981	VV	1938	78501	0.24%	0.007%
328	21.991	21.981	22.001	VV	935	6620	0.02%	0.001%
329	22.015	22.001	22.026	VV	1242	11216	0.03%	0.001%
330	22.036	22.026	22.068	PV	892	14051	0.04%	0.001%

Sum of corrected areas: 1147146250

Aliphatic EPH 102324.M Wed Oct 30 04:00:45 2024

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

Report of Analysis

Client:	Chemtech Consulting Group		Date Collected:		
Project:	NJ Soil PT		Date Received:		
Client Sample ID:	EX-5-TPH-5MSD		SDG No.:	P4495	
Lab Sample ID:	P4518-05MSD		Matrix:	Solid	
Analytical Method:	NJEPH		% Solid:	73.9	
Sample Wt/Vol:	30.06	Units: g	Final Vol:	2000	uL
Soil Aliquot Vol:		uL	Test:	EPH	
Prep Method :					

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FD048608.D	1	10/25/24	10/28/24	PB164396

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	15.1		0.41	0.90	mg/kg
Aromatic C12-C16	Aromatic C12-C16	79.5	E	0.46	1.35	mg/kg
Aromatic C16-C21	Aromatic C16-C21	254	E	1.30	2.25	mg/kg
Aromatic C21-C36	Aromatic C21-C36	86.6	E	2.70	3.60	mg/kg
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	62.5		40 - 140	125%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	57.0		40 - 140	114%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	35.3		40 - 140	71%	SPK: 50

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

Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	P4518-05MSD	Acq On:	28 Oct 2024 17:03
Client Sample ID:	EX-5-TPH-5MSD	Operator:	YP/AJ
Data file:	FD048608.D	Misc:	
Instrument:	FID_D	ALS Vial:	71
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.094	5.812	29643175	168.233	200	ug/ml
Aromatic C12-C16	5.813	8.417	156572049	883.223	300	ug/ml
Aromatic C16-C21	8.418	12.677	463474069	2830	500	ug/ml
Aromatic C21-C36	12.678	18.081	146950935	962.268	800	ug/ml
Aromatic EPH	4.094	18.081	796640228	4840		ug/ml
2-Bromonaphthalene (SURR)	7.374	7.374	9478602	62.45		ug/ml
2-Flurobiphenyl (SURR)	8.227	8.227	5592057	56.95		ug/ml
ortho-Terphenyl (SURR)	11.263	11.263	6010687	35.29		ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD102824AR\
Data File : FD048608.D
Signal(s) : FID2B.ch
Acq On : 28 Oct 2024 17:03
Operator : YP/AJ
Sample : P4518-05MSD
Misc :
ALS Vial : 71 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
EX-5-TPH-5MSD

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 10/30/2024
Supervised By :Ankita Jodhani 10/30/2024

Integration File: autoint1.e
Quant Time: Oct 30 02:37:54 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 18:14:59 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
4) S	2-Bromonaphthalene (S...	7.374	9478602	62.450 ug/mlm
Spiked Amount	50.000		Recovery =	124.90%
6) S	2-Flurobiphenyl (SURR)	8.227	5592057	56.950 ug/mlm
Spiked Amount	50.000 Range	0 - 131	Recovery =	113.90%
11) S	ortho-Terphenyl (SURR)	11.263	6010687	35.286 ug/mlm
Spiked Amount	50.000		Recovery =	70.57%
	Target Compounds			
1) T	1,2,3-Trimethylbenzen...	4.195	7796308	44.814 ug/mlm
2) T	Naphthalene (C11.7)	5.714	9718350	54.465 ug/mlm
3) T	2-Methylnaphthalene (...	6.764	14050183	78.552 ug/ml
5) T	Acenaphthylene (C15.06)	8.033	14342402	81.680 ug/mlm
7) T	Acenaphthene (C15.5)	8.327	11754591	66.274 ug/mlm
8) T	Flouorene (C16.55)	9.109	12993750	76.869 ug/mlm
9) T	Phenanthrene (C19.36)	10.499	14061554	85.064 ug/mlm
10) T	Anthracene (C19.43)	10.573	11491196	71.860 ug/mlm
12) T	Fluoranthene (C21.85)	12.302	11491186	69.823 ug/mlm
13) T	Pyrene (C20.8)	12.595	11093012	68.868 ug/mlm
14) T	Benzo[a]anthracene (C...	14.459	9826901	67.208 ug/ml
15) T	Chrysene (C27.41)	14.503	9689328	58.904 ug/ml
16) T	benzo[b]fluoranthene ...	16.009	9482357	62.372 ug/ml
17) T	Bnezo[k]fluoranthene ...	16.043	9010679	59.950 ug/ml
18) T	Benzo[a]pyrene (C31.34)	16.384	8889150	59.066 ug/ml
19) T	Indeno[1,2,3-cd]pyren...	17.752	9638358	73.870 ug/ml
20) T	Dibenz[a,h]anthracene...	17.789	8766635	53.871 ug/ml
21) T	Benzo[g,h,i]perylene ...	18.004	8688529	56.754 ug/ml

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

Quantitation Report (QT Reviewed)

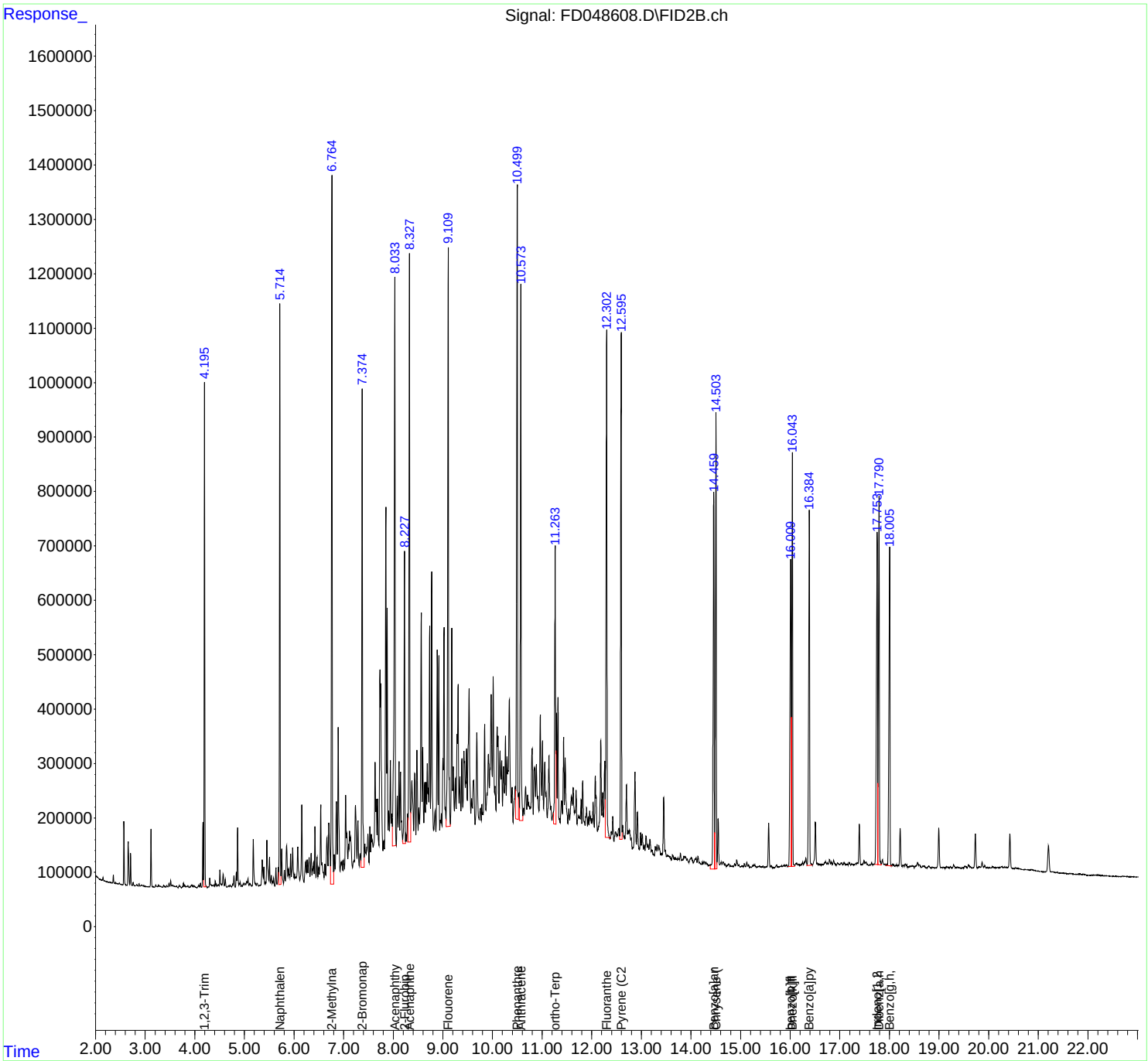
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD102824AR\
Data File : FD048608.D
Signal(s) : FID2B.ch
Acq On : 28 Oct 2024 17:03
Operator : YP/AJ
Sample : P4518-05MSD
Misc :
ALS Vial : 71 Sample Multiplier: 1

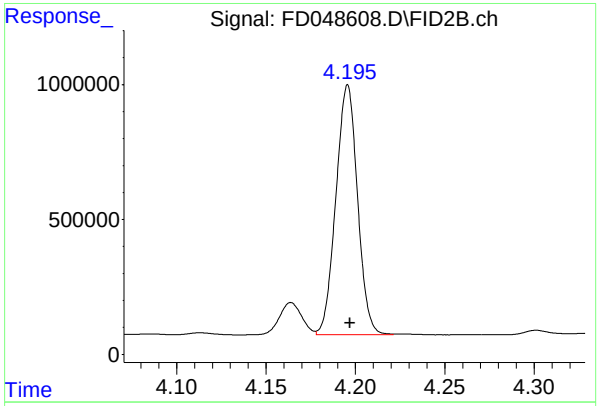
Instrument :
FID_D
ClientSampleId :
EX-5-TPH-5MSD

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 10/30/2024
Supervised By :Ankita Jodhani 10/30/2024

Integration File: autoint1.e
Quant Time: Oct 30 02:37:54 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 18:14:59 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm





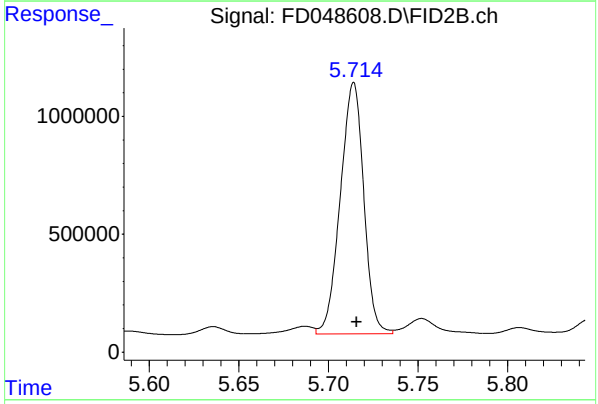
#1 1,2,3-Trimethylbenzene (C10.1)

R.T.: 4.195 min
Delta R.T.: -0.002 min
Response: 7796308
Conc: 44.81 ug/ml

Instrument :
FID_D
ClientSampleId :
EX-5-TPH-5MSD

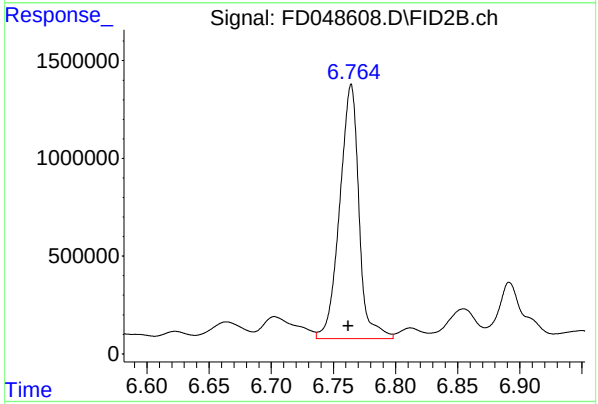
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/30/2024
Supervised By :Ankita Jodhani 10/30/2024



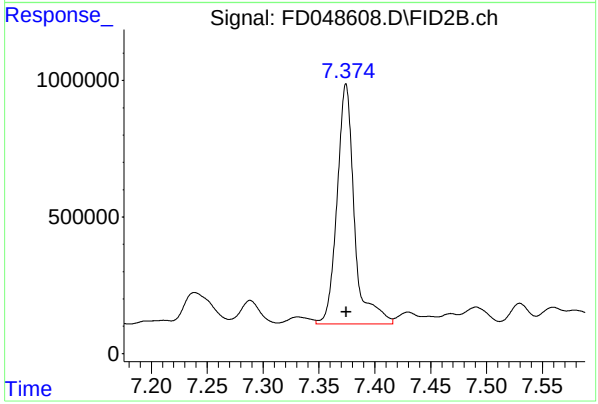
#2 Naphthalene (C11.7)

R.T.: 5.714 min
Delta R.T.: -0.002 min
Response: 9718350
Conc: 54.46 ug/ml m



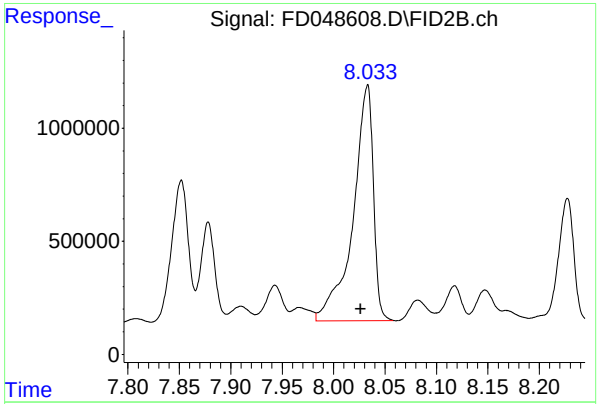
#3 2-Methylnaphthalene (C12.89)

R.T.: 6.764 min
Delta R.T.: 0.002 min
Response: 14050183
Conc: 78.55 ug/ml



#4 2-Bromonaphthalene (SURR)

R.T.: 7.374 min
Delta R.T.: 0.000 min
Response: 9478602
Conc: 62.45 ug/ml m



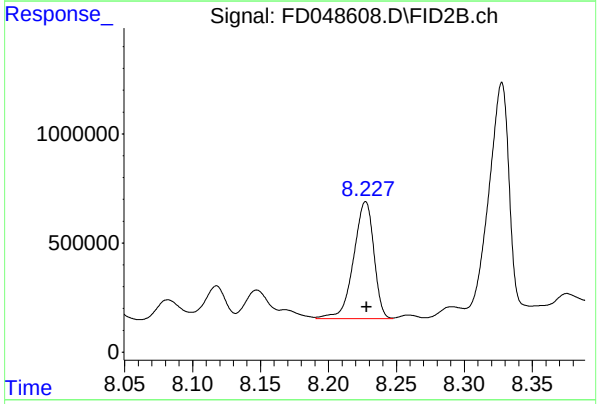
#5 Acenaphthylene (C15.06)

R.T.: 8.033 min
Delta R.T.: 0.007 mi
Response: 14342402
Conc: 81.68 ug/m

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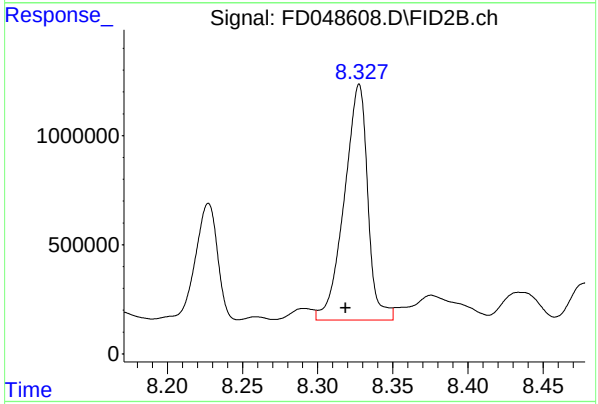
Manual Integrations
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Supervised By :Ankita Jodhani 10/30/2024



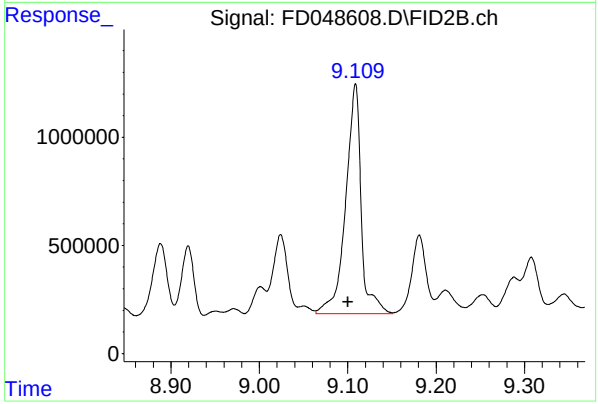
#6 2-Flurobiphenyl (SURR)

R.T.: 8.227 min
Delta R.T.: -0.001 min
Response: 5592057
Conc: 56.95 ug/ml m



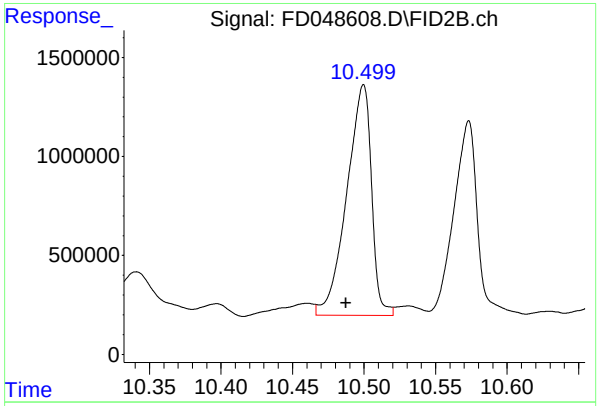
#7 Acenaphthene (C15.5)

R.T.: 8.327 min
Delta R.T.: 0.009 min
Response: 11754591
Conc: 66.27 ug/ml m



#8 Flouorene (C16.55)

R.T.: 9.109 min
Delta R.T.: 0.008 min
Response: 12993750
Conc: 76.87 ug/ml m



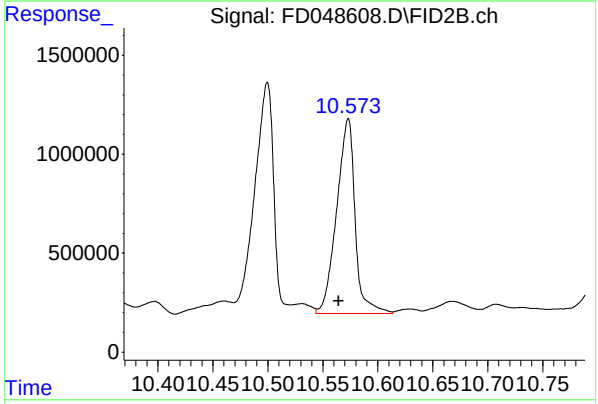
#9 Phenanthrene (C19.36)

R.T.: 10.499 min
Delta R.T.: 0.012 min
Response: 14061554
Conc: 85.06 ug/ml

Instrument :
FID_D
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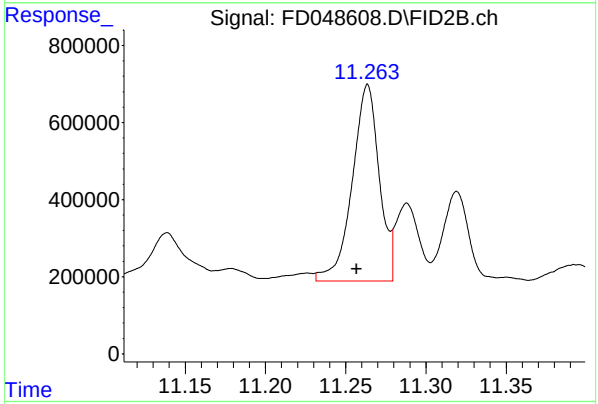
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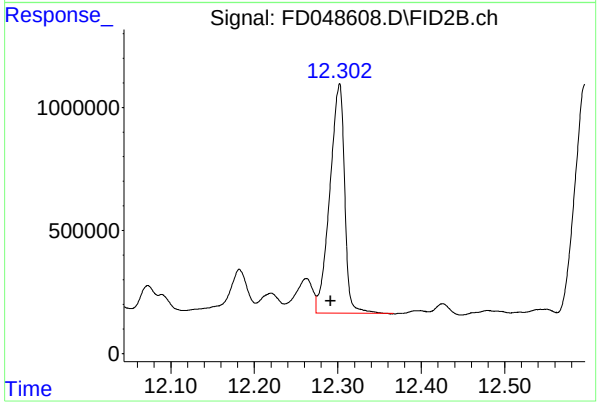
#10 Anthracene (C19.43)

R.T.: 10.573 min
Delta R.T.: 0.008 min
Response: 11491196
Conc: 71.86 ug/ml m



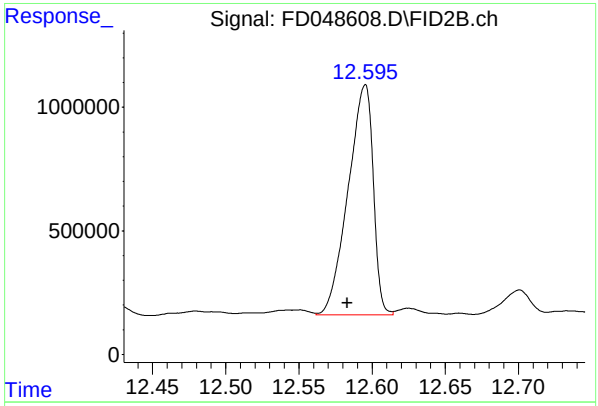
#11 ortho-Terphenyl (SURR)

R.T.: 11.263 min
Delta R.T.: 0.006 min
Response: 6010687
Conc: 35.29 ug/ml m



#12 Fluoranthene (C21.85)

R.T.: 12.302 min
Delta R.T.: 0.011 min
Response: 11491186
Conc: 69.82 ug/ml m



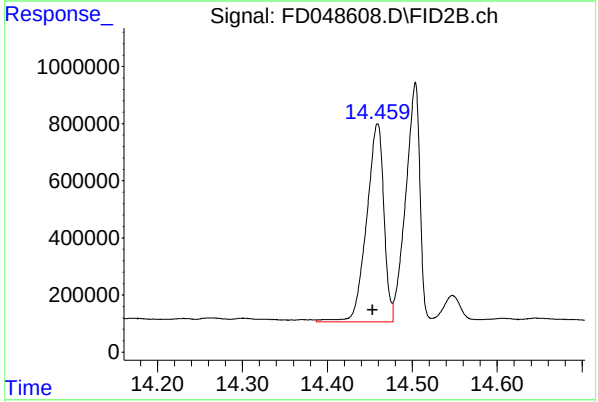
#13 Pyrene (C20.8)

R.T.: 12.595 min
Delta R.T.: 0.012 min
Response: 11093012
Conc: 68.87 ug/ml

Instrument :
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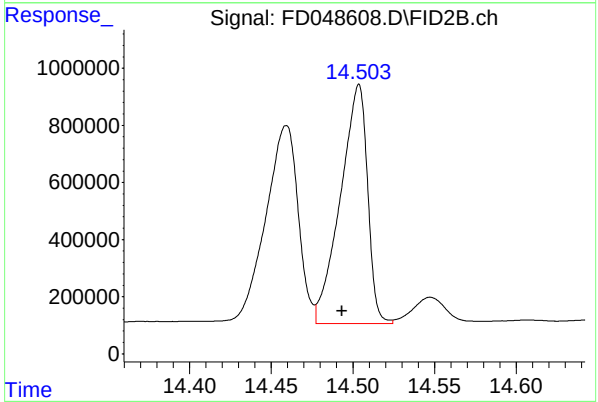
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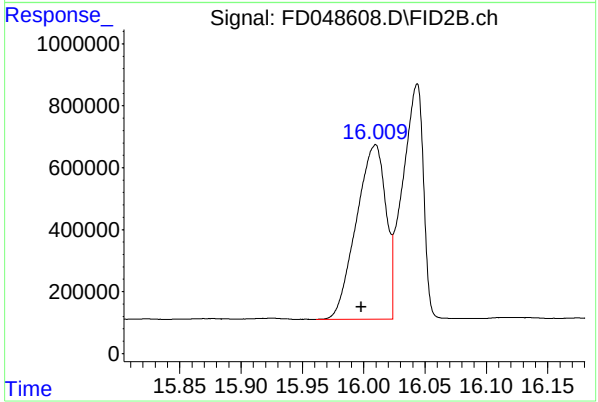
#14 Benzo[a]anthracene (C26.37)

R.T.: 14.459 min
Delta R.T.: 0.005 min
Response: 9826901
Conc: 67.21 ug/ml



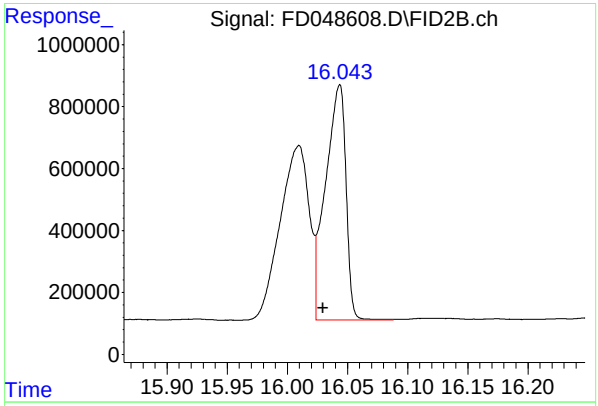
#15 Chrysene (C27.41)

R.T.: 14.503 min
Delta R.T.: 0.010 min
Response: 9689328
Conc: 58.90 ug/ml



#16 benzo[b]fluoranthene (C30.41)

R.T.: 16.009 min
Delta R.T.: 0.011 min
Response: 9482357
Conc: 62.37 ug/ml



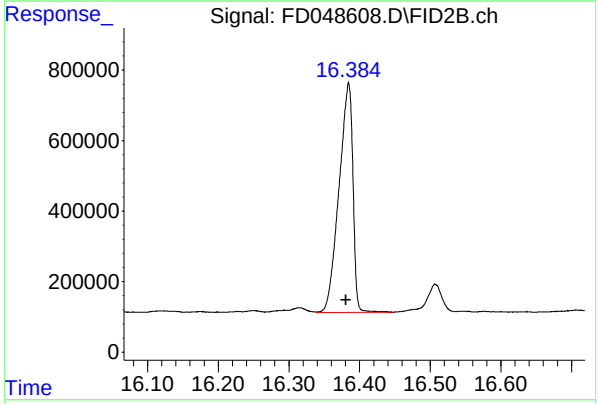
#17 Bnezo[k]fluoranthene (C30.14)

R.T.: 16.043 min
Delta R.T.: 0.013 min
Response: 9010679
Conc: 59.95 ug/ml

Instrument :
FID_D
ClientSampleId :
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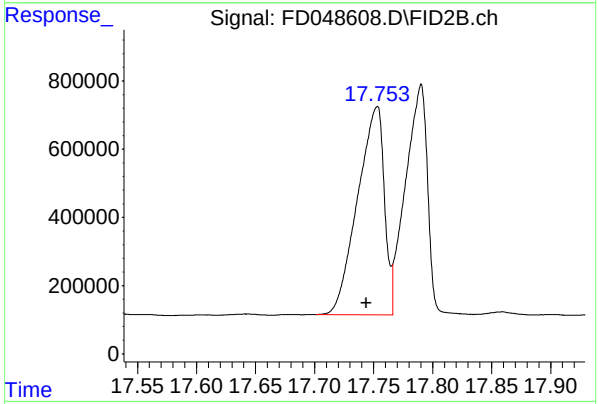
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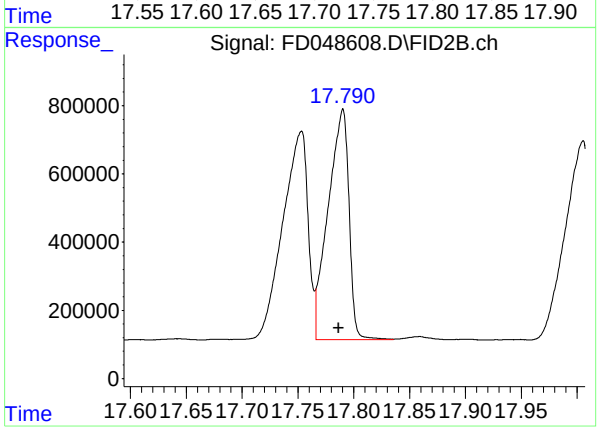
#18 Benzo[a]pyrene (C31.34)

R.T.: 16.384 min
Delta R.T.: 0.003 min
Response: 8889150
Conc: 59.07 ug/ml



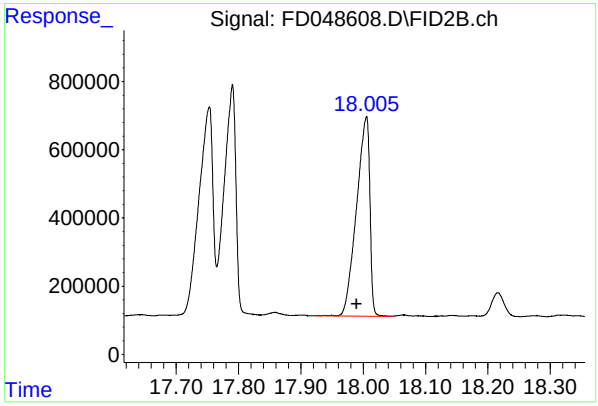
#19 Indeno[1,2,3-cd]pyrene (C35.01)

R.T.: 17.752 min
Delta R.T.: 0.008 min
Response: 9638358
Conc: 73.87 ug/ml



#20 Dibenz[a,h]anthracene (C30.36)

R.T.: 17.789 min
Delta R.T.: 0.003 min
Response: 8766635
Conc: 53.87 ug/ml



#21 Benzo[g,h,i]perylene (C34.01)

R.T.: 18.004 min
Delta R.T.: 0.014 mi
Response: 8688529
Conc: 56.75 ug/m

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Area Percent Report

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Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD10282
Data File : FD048608.D
Signal(s) : FID2B.ch
Acq On : 28 Oct 2024 17:03
Sample : P4518-05MSD
Misc :
ALS Vial : 71 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 102324.M
Title : GC Extractables

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.164	4.136	4.178	VV	120454	1054916	5.75%	0.129%
2	4.196	4.178	4.251	VV	926253	7878325	42.97%	0.965%
3	4.275	4.251	4.284	VV	1534	18640	0.10%	0.002%
4	4.301	4.284	4.320	VV	17605	182977	1.00%	0.022%
5	4.327	4.320	4.340	VV	5381	57327	0.31%	0.007%
6	4.349	4.340	4.370	VV	4434	60516	0.33%	0.007%
7	4.386	4.370	4.399	VV	5443	66333	0.36%	0.008%
8	4.413	4.399	4.426	VV	12478	115459	0.63%	0.014%
9	4.435	4.426	4.451	VV	6613	68519	0.37%	0.008%
10	4.466	4.451	4.474	VV	4954	53111	0.29%	0.007%
11	4.482	4.474	4.491	VV	5076	45168	0.25%	0.006%
12	4.506	4.491	4.524	VV	32373	309769	1.69%	0.038%
13	4.532	4.524	4.544	VV	7022	71402	0.39%	0.009%
14	4.572	4.544	4.596	VV	24477	368823	2.01%	0.045%
15	4.615	4.596	4.649	VV	15050	175090	0.95%	0.021%
16	4.679	4.649	4.693	VV	3312	47363	0.26%	0.006%
17	4.708	4.693	4.725	VV	4667	52673	0.29%	0.006%
18	4.734	4.725	4.745	VV	2104	20405	0.11%	0.002%
19	4.765	4.745	4.774	VV	6180	66522	0.36%	0.008%
20	4.790	4.774	4.816	VV	21867	234434	1.28%	0.029%
21	4.837	4.816	4.847	PV	27997	250656	1.37%	0.031%
22	4.863	4.847	4.886	VV	109841	1040355	5.67%	0.127%
23	4.895	4.886	4.903	VV	6903	60287	0.33%	0.007%
24	4.916	4.903	4.932	VV	9066	93886	0.51%	0.011%
25	4.951	4.932	4.961	VV	2813	37409	0.20%	0.005%
26	4.980	4.961	4.995	VV	7210	97509	0.53%	0.012%
27	5.009	4.995	5.029	VV	7275	110852	0.60%	0.014%
28	5.047	5.029	5.059	VV	10522	144066	0.79%	0.018%
29	5.072	5.059	5.088	VV	15503	171182	0.93%	0.021%
30	5.111	5.088	5.125	VV	7108	114579	0.62%	0.014%
31	5.129	5.125	5.143	VV	4323	31835	0.17%	0.004%
32	5.153	5.143	5.160	VV	2437	21089	0.12%	0.003%
33	5.179	5.160	5.217	VV	87869	1020997	5.57%	0.125%
34	5.225	5.217	5.238	VV	5734	55688	0.30%	0.007%
35	5.254	5.238	5.287	VV	6594	122814	0.67%	0.015%
36	5.304	5.287	5.315	VV	3096	38801	0.21%	0.005%

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37	5.361	5.315	5.381	VV	49608	737819	4.02%	0.090%
38	5.392	5.381	5.410	VV	36550	373620	2	
39	5.424	5.410	5.435	VV	8683	108425	0	
40	5.453	5.435	5.491	VV	85076	1236105	6	
41	5.506	5.491	5.524	VV	54144	536094	2	
42	5.543	5.524	5.558	VV	20682	261293	1	
43	5.569	5.558	5.576	VV	9256	83520	0.46%	0.010%
44	5.589	5.576	5.614	VV	15620	176026	0.96%	0.022%
45	5.636	5.614	5.657	PV	34426	346298	1.89%	0.042%
46	5.687	5.657	5.693	VV	35613	384545	2.10%	0.047%
47	5.714	5.693	5.736	VV	1068781	9796793	53.43%	1.200%
48	5.752	5.736	5.789	VV	68548	874019	4.77%	0.107%
49	5.807	5.789	5.827	VV	29595	368841	2.01%	0.045%
50	5.851	5.827	5.877	VV	74265	1270624	6.93%	0.156%
51	5.890	5.877	5.917	VV	32341	544112	2.97%	0.067%
52	5.932	5.917	5.947	VV	59213	628340	3.43%	0.077%
53	5.974	5.947	6.001	VV	70565	1127170	6.15%	0.138%
54	6.013	6.001	6.025	VV	21167	252492	1.38%	0.031%
55	6.034	6.025	6.045	VV	16086	184852	1.01%	0.023%
56	6.076	6.045	6.117	VV	71440	1360330	7.42%	0.167%
57	6.158	6.117	6.201	VV	148408	2053475	11.20%	0.251%
58	6.235	6.201	6.249	VV	43777	798547	4.36%	0.098%
59	6.266	6.249	6.281	VV	47479	670730	3.66%	0.082%
60	6.305	6.281	6.323	VV	51178	907238	4.95%	0.111%
61	6.346	6.323	6.363	VV	59075	894212	4.88%	0.109%
62	6.376	6.363	6.382	VV	30778	290255	1.58%	0.036%
63	6.394	6.382	6.408	VV	42737	521731	2.85%	0.064%
64	6.423	6.408	6.444	VV	107677	1159447	6.32%	0.142%
65	6.464	6.444	6.482	VV	51300	699619	3.82%	0.086%
66	6.499	6.482	6.511	VV	32867	429700	2.34%	0.053%
67	6.539	6.511	6.556	VV	147412	1872636	10.21%	0.229%
68	6.564	6.556	6.606	VV	40655	859473	4.69%	0.105%
69	6.623	6.606	6.639	VV	38556	522858	2.85%	0.064%
70	6.664	6.639	6.686	VV	86748	1555497	8.48%	0.190%
71	6.703	6.686	6.737	VV	113665	2194795	11.97%	0.269%
72	6.764	6.737	6.798	VV	1298393	14079182	76.79%	1.724%
73	6.812	6.798	6.828	VV	55660	710529	3.88%	0.087%
74	6.855	6.828	6.872	VV	152975	2446260	13.34%	0.300%
75	6.892	6.872	6.928	VV	288234	4187412	22.84%	0.513%
76	6.950	6.928	6.959	VV	41003	653555	3.56%	0.080%
77	6.969	6.959	6.983	VV	41922	513040	2.80%	0.063%
78	7.000	6.983	7.017	VV	44676	734459	4.01%	0.090%
79	7.041	7.017	7.055	VV	163958	2130739	11.62%	0.261%
80	7.064	7.055	7.086	VV	93186	1389467	7.58%	0.170%
81	7.100	7.086	7.108	VV	73897	804818	4.39%	0.099%
82	7.120	7.108	7.130	VV	97789	1130910	6.17%	0.138%
83	7.139	7.130	7.181	VV	86150	1850393	10.09%	0.227%
84	7.211	7.181	7.218	VV	43611	875174	4.77%	0.107%
85	7.239	7.218	7.270	VV	145041	2937307	16.02%	0.360%
86	7.288	7.270	7.313	VV	116456	1830216	9.98%	0.224%
87	7.331	7.313	7.349	VV	55498	1002278	5.47%	0.123%
88	7.374	7.349	7.416	VV	909322	10680837	58.25%	1.308%
89	7.430	7.416	7.443	VV	73124	1010710	5.51%	0.124%

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90	7.449	7.443	7.456	VV	57231	424780	2.32%	0.052%
91	7.468	7.456	7.475	VV	67534	714011	3	
92	7.491	7.475	7.512	VV	91472	1566100	8	
93	7.530	7.512	7.545	VV	105080	1445764	7	
94	7.560	7.545	7.572	VV	90629	1299378	7	
95	7.579	7.572	7.595	VV	79649	1023100	5	
96	7.635	7.595	7.651	VV	222677	4173308	22.76%	0.511%
97	7.660	7.651	7.672	VV	154471	1664294	9.08%	0.204%
98	7.686	7.672	7.711	VV	155477	2479937	13.53%	0.304%
99	7.732	7.711	7.740	VV	392211	4246117	23.16%	0.520%
100	7.747	7.740	7.793	VV	367265	6047070	32.98%	0.740%
101	7.808	7.793	7.823	VV	77884	1260794	6.88%	0.154%
102	7.852	7.823	7.866	VV	690313	8707709	47.49%	1.066%
103	7.878	7.866	7.896	VV	505672	5367177	29.27%	0.657%
104	7.910	7.896	7.924	VV	133092	1926947	10.51%	0.236%
105	7.943	7.924	7.958	VV	225387	3168865	17.28%	0.388%
106	7.967	7.958	7.983	VV	127260	1797329	9.80%	0.220%
107	8.033	7.983	8.061	VV	1118671	17516028	95.53%	2.145%
108	8.082	8.061	8.099	VV	159031	2655797	14.48%	0.325%
109	8.118	8.099	8.132	VV	222868	3021380	16.48%	0.370%
110	8.147	8.132	8.190	VV	203879	4478582	24.43%	0.548%
111	8.227	8.190	8.248	VV	609005	8066426	43.99%	0.988%
112	8.259	8.248	8.271	VV	88344	1166307	6.36%	0.143%
113	8.291	8.271	8.300	VV	126281	1843656	10.06%	0.226%
114	8.328	8.300	8.350	VV	1152745	13933115	75.99%	1.706%
115	8.376	8.350	8.414	VV	187343	5559922	30.32%	0.681%
116	8.434	8.414	8.458	VV	200156	4051769	22.10%	0.496%
117	8.478	8.458	8.503	VV	243443	4447728	24.26%	0.545%
118	8.517	8.503	8.531	VV	137221	2054294	11.20%	0.252%
119	8.565	8.531	8.583	VV	495334	7827787	42.69%	0.959%
120	8.596	8.583	8.618	VV	247789	3666566	20.00%	0.449%
121	8.635	8.618	8.649	VV	183301	2688125	14.66%	0.329%
122	8.663	8.649	8.674	VV	183356	2459071	13.41%	0.301%
123	8.687	8.674	8.700	VV	218048	2836066	15.47%	0.347%
124	8.707	8.700	8.717	VV	172208	1609163	8.78%	0.197%
125	8.734	8.717	8.751	VV	469482	5776565	31.50%	0.707%
126	8.776	8.751	8.814	VV	570401	9293597	50.69%	1.138%
127	8.844	8.814	8.861	VV	130653	3079694	16.80%	0.377%
128	8.888	8.861	8.904	VV	425194	6181826	33.72%	0.757%
129	8.920	8.904	8.938	VV	415199	4926948	26.87%	0.603%
130	8.951	8.938	8.959	VV	113149	1365427	7.45%	0.167%
131	8.971	8.959	8.983	VV	124635	1654983	9.03%	0.203%
132	9.002	8.983	9.008	VV	226470	2630734	14.35%	0.322%
133	9.024	9.008	9.044	VV	466718	6358553	34.68%	0.779%
134	9.050	9.044	9.063	VV	136569	1439459	7.85%	0.176%
135	9.109	9.063	9.151	VV	1164685	18335500	100.00%	2.245%
136	9.181	9.151	9.199	VV	464857	6998525	38.17%	0.857%
137	9.211	9.199	9.233	VV	209683	3524725	19.22%	0.432%
138	9.253	9.233	9.268	VV	188489	3352473	18.28%	0.411%
139	9.288	9.268	9.295	VV	269771	3430252	18.71%	0.420%
140	9.308	9.295	9.327	VV	361586	5060889	27.60%	0.620%
141	9.345	9.327	9.366	VV	191841	3689861	20.12%	0.452%

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142	9.384	9.366	9.402	VV	224779	3702908	20.20%	0.453%
143	9.426	9.402	9.454	VV	238231	6059114	33	
144	9.478	9.454	9.493	VV	242768	4575836	24	
145	9.530	9.493	9.565	VV	351407	9721735	53	
146	9.580	9.565	9.596	VV	150691	2587665	14	
147	9.618	9.596	9.650	VV	183517	4949808	27	
148	9.686	9.650	9.731	VV	271859	7699283	41.99%	0.943%
149	9.756	9.731	9.773	VV	131838	3036719	16.56%	0.372%
150	9.787	9.773	9.799	VV	139163	1982809	10.81%	0.243%
151	9.807	9.799	9.813	VV	123117	1046306	5.71%	0.128%
152	9.843	9.813	9.868	VV	286728	5888200	32.11%	0.721%
153	9.890	9.868	9.896	VV	159737	2415357	13.17%	0.296%
154	9.918	9.896	9.938	VV	231116	4909638	26.78%	0.601%
155	9.975	9.938	9.997	VV	341193	8571410	46.75%	1.050%
156	10.016	9.997	10.042	VV	373795	6831770	37.26%	0.837%
157	10.052	10.042	10.072	VV	172063	2772223	15.12%	0.339%
158	10.095	10.072	10.105	VV	280588	4226329	23.05%	0.518%
159	10.114	10.105	10.132	VV	262998	3589989	19.58%	0.440%
160	10.153	10.132	10.175	VV	237259	5046160	27.52%	0.618%
161	10.188	10.175	10.204	VV	218713	3216804	17.54%	0.394%
162	10.225	10.204	10.243	VV	208059	4181551	22.81%	0.512%
163	10.263	10.243	10.279	VV	263978	4366549	23.81%	0.535%
164	10.295	10.279	10.307	VV	225453	3353151	18.29%	0.411%
165	10.341	10.307	10.380	VV	330402	9738357	53.11%	1.192%
166	10.397	10.380	10.416	VV	169305	3096928	16.89%	0.379%
167	10.460	10.416	10.469	VV	170467	4547788	24.80%	0.557%
168	10.500	10.469	10.521	VV	1279520	17478125	95.32%	2.140%
169	10.531	10.521	10.545	VV	157512	2138744	11.66%	0.262%
170	10.573	10.545	10.613	VV	1096736	15904900	86.74%	1.948%
171	10.630	10.613	10.641	VV	130213	2031741	11.08%	0.249%
172	10.668	10.641	10.694	VV	169029	4618420	25.19%	0.566%
173	10.708	10.694	10.724	VV	154553	2618734	14.28%	0.321%
174	10.732	10.724	10.757	VV	138100	2614866	14.26%	0.320%
175	10.799	10.757	10.823	VV	238394	6698091	36.53%	0.820%
176	10.841	10.823	10.846	VV	203061	2313766	12.62%	0.283%
177	10.851	10.846	10.869	VV	203385	2586019	14.10%	0.317%
178	10.886	10.869	10.910	VV	210171	4325660	23.59%	0.530%
179	10.918	10.910	10.940	VV	151205	2411982	13.15%	0.295%
180	10.965	10.940	10.993	VV	301258	6466179	35.27%	0.792%
181	11.009	10.993	11.031	VV	252487	4200732	22.91%	0.514%
182	11.055	11.031	11.073	VV	213692	4391780	23.95%	0.538%
183	11.080	11.073	11.106	VV	156734	2704458	14.75%	0.331%
184	11.139	11.106	11.169	VV	224958	5882247	32.08%	0.720%
185	11.178	11.169	11.202	VV	132412	2411023	13.15%	0.295%
186	11.264	11.202	11.278	VV	610069	10743657	58.59%	1.316%
187	11.288	11.278	11.303	VV	301901	3544282	19.33%	0.434%
188	11.319	11.303	11.345	VV	331638	5072812	27.67%	0.621%
189	11.350	11.345	11.364	VV	109291	1215420	6.63%	0.149%
190	11.394	11.364	11.411	VV	141163	3485408	19.01%	0.427%
191	11.435	11.411	11.451	VV	257775	4347440	23.71%	0.532%
192	11.466	11.451	11.520	VV	220358	6004494	32.75%	0.735%
193	11.540	11.520	11.556	VV	126474	2492736	13.60%	0.305%
194	11.592	11.556	11.608	VV	150445	4069047	22.19%	0.498%

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195	11.627	11.608	11.650	VV	164876	3598560	19.63%	0.441%
196	11.663	11.650	11.670	VV	122791	1413969		
197	11.687	11.670	11.704	VV	160077	2710763		
198	11.727	11.704	11.738	VV	113955	2164817		
199	11.752	11.738	11.769	VV	111339	2017438		
200	11.786	11.769	11.800	VV	142866	2286824		
201	11.819	11.800	11.864	VV	177151	4753432	25.92%	0.582%
202	11.879	11.864	11.884	VV	112053	1290820	7.04%	0.158%
203	11.897	11.884	11.916	VV	127364	2175068	11.86%	0.266%
204	11.932	11.916	11.944	VV	109816	1701335	9.28%	0.208%
205	11.960	11.944	11.974	VV	121421	2005724	10.94%	0.246%
206	11.978	11.974	11.991	VV	109354	1054898	5.75%	0.129%
207	12.001	11.991	12.012	VV	107259	1286353	7.02%	0.158%
208	12.027	12.012	12.052	VV	136675	2728859	14.88%	0.334%
209	12.073	12.052	12.118	VV	184957	5017007	27.36%	0.614%
210	12.182	12.118	12.202	VV	250568	6666658	36.36%	0.816%
211	12.220	12.202	12.236	VV	153771	2757377	15.04%	0.338%
212	12.262	12.236	12.275	VV	212488	3764908	20.53%	0.461%
213	12.302	12.275	12.369	VV	1003368	15472705	84.39%	1.895%
214	12.399	12.369	12.410	VV	81580	1908431	10.41%	0.234%
215	12.426	12.410	12.448	VV	110010	1984021	10.82%	0.243%
216	12.480	12.448	12.507	VV	82368	2650585	14.46%	0.325%
217	12.518	12.507	12.523	VV	75538	719103	3.92%	0.088%
218	12.550	12.523	12.562	VV	87024	1941688	10.59%	0.238%
219	12.595	12.562	12.614	VV	998600	13183367	71.90%	1.614%
220	12.625	12.614	12.652	VV	93730	1830990	9.99%	0.224%
221	12.660	12.652	12.670	VV	73662	760639	4.15%	0.093%
222	12.701	12.670	12.720	VV	167550	3343471	18.23%	0.409%
223	12.734	12.720	12.748	VV	82780	1381358	7.53%	0.169%
224	12.762	12.748	12.788	VV	83669	1821407	9.93%	0.223%
225	12.796	12.788	12.817	VV	69122	1056825	5.76%	0.129%
226	12.870	12.817	12.900	VV	190815	4540442	24.76%	0.556%
227	12.921	12.900	12.963	VV	116400	2730316	14.89%	0.334%
228	12.985	12.963	12.999	VV	78970	1361070	7.42%	0.167%
229	13.019	12.999	13.040	VV	75742	1567905	8.55%	0.192%
230	13.060	13.040	13.075	VV	55610	1060429	5.78%	0.130%
231	13.094	13.075	13.122	VV	71932	1672020	9.12%	0.205%
232	13.136	13.122	13.152	VV	55453	945647	5.16%	0.116%
233	13.173	13.152	13.207	VV	65755	1745390	9.52%	0.214%
234	13.218	13.207	13.236	VV	45873	744214	4.06%	0.091%
235	13.246	13.236	13.261	VV	38913	581640	3.17%	0.071%
236	13.281	13.261	13.298	VV	52491	1021438	5.57%	0.125%
237	13.317	13.298	13.334	VV	55495	1066971	5.82%	0.131%
238	13.353	13.334	13.393	VV	53679	1655949	9.03%	0.203%
239	13.404	13.393	13.417	VV	39491	550804	3.00%	0.067%
240	13.450	13.417	13.474	VV	141580	2626171	14.32%	0.322%
241	13.482	13.474	13.512	VV	45136	892185	4.87%	0.109%
242	13.524	13.512	13.536	VV	36052	504361	2.75%	0.062%
243	13.552	13.536	13.563	VV	34702	560489	3.06%	0.069%
244	13.580	13.563	13.603	VV	33409	730755	3.99%	0.089%
245	13.628	13.603	13.667	VV	36029	1201045	6.55%	0.147%
246	13.680	13.667	13.700	VV	31331	582630	3.18%	0.071%

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247	13.706	13.700	13.720	VV	28224	330386	1.80%	0.040%
248	13.738	13.720	13.751	VV	29761	520679	2	
249	13.758	13.751	13.764	VV	28315	213213	1	
250	13.787	13.764	13.807	VV	38605	819547	4	
251	13.829	13.807	13.833	VV	26571	403996	2	
252	13.858	13.833	13.874	VV	32933	735484	4	
253	13.886	13.874	13.913	VV	32451	701710	3.83%	0.086%
254	13.926	13.913	13.958	VV	27949	655837	3.58%	0.080%
255	13.987	13.958	13.994	VV	28253	542164	2.96%	0.066%
256	14.008	13.994	14.049	VV	30425	863156	4.71%	0.106%
257	14.082	14.049	14.090	VV	27490	609880	3.33%	0.075%
258	14.102	14.090	14.119	VV	29431	445921	2.43%	0.055%
259	14.141	14.119	14.162	VV	32242	664621	3.62%	0.081%
260	14.173	14.162	14.202	VV	20985	458592	2.50%	0.056%
261	14.207	14.202	14.212	VV	17577	108491	0.59%	0.013%
262	14.230	14.212	14.245	VV	20443	372434	2.03%	0.046%
263	14.263	14.245	14.285	VV	22300	481957	2.63%	0.059%
264	14.301	14.285	14.321	VV	21099	408498	2.23%	0.050%
265	14.328	14.321	14.354	VV	17566	317191	1.73%	0.039%
266	14.370	14.354	14.387	VV	15747	294613	1.61%	0.036%
267	14.459	14.387	14.477	VV	701971	10235731	55.82%	1.253%
268	14.504	14.477	14.524	VV	846523	9923491	54.12%	1.215%
269	14.547	14.524	14.579	VV	100068	1603971	8.75%	0.196%
270	14.608	14.579	14.625	VV	20047	489123	2.67%	0.060%
271	14.645	14.625	14.713	VV	20442	865469	4.72%	0.106%
272	14.760	14.713	14.786	VV	16625	616672	3.36%	0.076%
273	14.799	14.786	14.805	VV	13014	144015	0.79%	0.018%
274	14.810	14.805	14.820	VV	12191	106279	0.58%	0.013%
275	14.840	14.820	14.854	VV	12351	234524	1.28%	0.029%
276	14.879	14.854	14.900	VV	16153	374493	2.04%	0.046%
277	14.922	14.900	14.957	VV	23135	578243	3.15%	0.071%
278	14.964	14.957	14.994	VV	13701	265244	1.45%	0.032%
279	15.004	14.994	15.010	VV	10842	105717	0.58%	0.013%
280	15.032	15.010	15.055	VV	12794	308198	1.68%	0.038%
281	15.077	15.055	15.102	VV	15677	350981	1.91%	0.043%
282	15.125	15.102	15.147	VV	18765	380763	2.08%	0.047%
283	15.160	15.147	15.186	VV	14185	258690	1.41%	0.032%
284	15.207	15.186	15.221	VV	9955	194988	1.06%	0.024%
285	15.259	15.221	15.269	VV	12439	314590	1.72%	0.039%
286	15.284	15.269	15.315	VV	13742	317092	1.73%	0.039%
287	15.320	15.315	15.341	VV	9570	145413	0.79%	0.018%
288	15.354	15.341	15.358	VV	9938	94164	0.51%	0.012%
289	15.376	15.358	15.404	VV	10782	281116	1.53%	0.034%
290	15.411	15.404	15.419	VV	9666	85428	0.47%	0.010%
291	15.425	15.419	15.434	VV	9354	76085	0.41%	0.009%
292	15.450	15.434	15.470	VV	11006	208366	1.14%	0.026%
293	15.484	15.470	15.493	VV	8944	120969	0.66%	0.015%
294	15.565	15.493	15.597	VV	89313	1557280	8.49%	0.191%
295	15.621	15.597	15.644	VV	9837	255051	1.39%	0.031%
296	15.648	15.644	15.670	VV	7554	105494	0.58%	0.013%
297	15.678	15.670	15.687	VV	7289	69971	0.38%	0.009%
298	15.726	15.687	15.748	VV	12187	346123	1.89%	0.042%
299	15.759	15.748	15.772	VV	8902	120151	0.66%	0.015%

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300	15.798	15.772	15.804	VV	9249	156394	0.85%	0.019%
301	15.823	15.804	15.838	VV	10396	191368		
302	15.876	15.838	15.898	VV	10870	349558		
303	15.925	15.898	15.946	VV	12071	297438		
304	15.953	15.946	15.962	VV	8506	77186		
305	16.009	15.962	16.024	VV	573616	9742635	53	
306	16.043	16.024	16.076	VV	769342	9304492	50.75%	1.139%
307	16.080	16.076	16.093	VV	11017	108700	0.59%	0.013%
308	16.116	16.093	16.124	VV	13982	227518	1.24%	0.028%
309	16.126	16.124	16.151	VV	13954	207534	1.13%	0.025%
310	16.155	16.151	16.160	VV	10936	56698	0.31%	0.007%
311	16.174	16.160	16.195	VV	12214	233579	1.27%	0.029%
312	16.200	16.195	16.212	VV	10527	102145	0.56%	0.013%
313	16.228	16.212	16.235	VV	12294	156923	0.86%	0.019%
314	16.251	16.235	16.267	VV	14480	242698	1.32%	0.030%
315	16.315	16.267	16.339	VV	22754	666836	3.64%	0.082%
316	16.385	16.339	16.447	VV	659403	9493765	51.78%	1.162%
317	16.507	16.447	16.537	VV	88696	1687250	9.20%	0.207%
318	16.549	16.537	16.564	VV	12245	182426	0.99%	0.022%
319	16.577	16.564	16.596	VV	11525	204191	1.11%	0.025%
320	16.601	16.596	16.629	VV	10391	195778	1.07%	0.024%
321	16.637	16.629	16.652	VV	10282	132985	0.73%	0.016%
322	16.707	16.652	16.733	VV	15031	580301	3.16%	0.071%
323	16.745	16.733	16.763	VV	12588	214220	1.17%	0.026%
324	16.791	16.763	16.814	VV	18946	430644	2.35%	0.053%
325	16.828	16.814	16.849	VV	13478	251219	1.37%	0.031%
326	16.875	16.849	16.932	VV	17293	580920	3.17%	0.071%
327	16.962	16.932	16.999	VV	11688	410307	2.24%	0.050%
328	17.028	16.999	17.060	VV	11881	383447	2.09%	0.047%
329	17.090	17.060	17.117	VV	11906	349574	1.91%	0.043%
330	17.125	17.117	17.130	VV	8918	67455	0.37%	0.008%
331	17.137	17.130	17.152	VV	9028	111901	0.61%	0.014%
332	17.157	17.152	17.167	VV	9471	80068	0.44%	0.010%
333	17.191	17.167	17.224	VV	12095	333619	1.82%	0.041%
334	17.239	17.224	17.250	VV	10093	142660	0.78%	0.017%
335	17.255	17.250	17.275	VV	9280	124640	0.68%	0.015%
336	17.288	17.275	17.299	VV	8702	114418	0.62%	0.014%
337	17.321	17.299	17.335	VV	10850	205587	1.12%	0.025%
338	17.348	17.335	17.365	VV	11599	189848	1.04%	0.023%
339	17.392	17.365	17.422	VV	82465	1252955	6.83%	0.153%
340	17.438	17.422	17.444	VV	8282	98381	0.54%	0.012%
341	17.453	17.444	17.459	VV	8633	74736	0.41%	0.009%
342	17.488	17.459	17.507	VV	15519	324758	1.77%	0.040%
343	17.529	17.507	17.578	VV	12471	403711	2.20%	0.049%
344	17.602	17.578	17.617	VV	7578	149471	0.82%	0.018%
345	17.643	17.617	17.667	VV	9673	238069	1.30%	0.029%
346	17.675	17.667	17.682	VV	8072	68503	0.37%	0.008%
347	17.685	17.682	17.690	VV	8128	38934	0.21%	0.005%
348	17.753	17.690	17.766	VV	620199	9919524	54.10%	1.215%
349	17.790	17.766	17.835	VV	684070	9098380	49.62%	1.114%
350	17.859	17.835	17.887	VV	15570	330393	1.80%	0.040%
351	17.898	17.887	17.923	VV	7322	140982	0.77%	0.017%

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 10/30/2024
Supervised By :Ankita Jodhani 10/30/2024

Instrument :
FID_D
ClientSampleId :
EX-5-TPH-5MSD

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 10/30/2024
Supervised By :Ankita Jodhani 10/30/2024

rteres

352	17.938	17.923	17.947	VV	6400	85874	0.47%	0.011%
353	17.950	17.947	17.957	VV	6689	37572		
354	18.005	17.957	18.048	VV	589607	8895314		
355	18.065	18.048	18.106	VV	7411	177266		
356	18.126	18.106	18.131	VV	4469	56463		
357	18.141	18.131	18.165	VV	5823	96639		
358	18.175	18.165	18.185	VV	4643	50539	0.28%	0.006%
359	18.216	18.185	18.250	VBA	72474	1077956	5.88%	0.132%

Sum of corrected areas: 816669092

Aromatic EPH 102324.M Wed Oct 30 03:20:22 2024

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Manual Integration Report

Sequence:	FC102324AL	Instrument	FID_c

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

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Manual Integration Report

Sequence:	FC102824AL	Instrument	FID_c

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
P4495-16	FC067535.D	1-chlorooctadecane (SURR)	yogesh	10/29/2024 9:22:22 AM	Ankita	10/29/2024 9:57:05	Peak Integrated by Software
P4518-05	FC067539.D	1-chlorooctadecane (SURR)	yogesh	10/29/2024 9:22:24 AM	Ankita	10/29/2024 9:57:07	Peak Integrated by Software
20 PPM ALIPHATIC HC	FC067541.D	n-Octatriacontane (C38)	yogesh	10/29/2024 9:22:26 AM	Ankita	10/29/2024 9:57:08	Peak Integrated by Software
P4518-05D	FC067545.D	1-chlorooctadecane (SURR)	yogesh	12/5/2024 9:02:06 AM	Ankita	12/5/2024 9:02:47	Peak Integrated by Software
P4518-05MS	FC067546.D	1-chlorooctadecane (SURR)	yogesh	12/5/2024 9:02:08 AM	Ankita	12/5/2024 9:02:48	Peak Integrated by Software
P4518-05MS	FC067546.D	n-Docosane (C22)	yogesh	12/5/2024 9:02:08 AM	Ankita	12/5/2024 9:02:48	Peak Integrated by Software
P4518-05MS	FC067546.D	n-Dodecane (C12)	yogesh	12/5/2024 9:02:08 AM	Ankita	12/5/2024 9:02:48	Peak Integrated by Software
P4518-05MS	FC067546.D	n-Dotriacontane (C32)	yogesh	12/5/2024 9:02:08 AM	Ankita	12/5/2024 9:02:48	Peak Integrated by Software
P4518-05MS	FC067546.D	n-Eicosane (C20)	yogesh	12/5/2024 9:02:08 AM	Ankita	12/5/2024 9:02:48	Peak Integrated by Software
P4518-05MS	FC067546.D	n-Heneicosane (C21)	yogesh	12/5/2024 9:02:08 AM	Ankita	12/5/2024 9:02:48	Peak Integrated by Software
P4518-05MS	FC067546.D	n-Hexacosane (C26)	yogesh	12/5/2024 9:02:08 AM	Ankita	12/5/2024 9:02:48	Peak Integrated by Software
P4518-05MS	FC067546.D	n-Hexadecane (C16)	yogesh	12/5/2024 9:02:08 AM	Ankita	12/5/2024 9:02:48	Peak Integrated by Software
P4518-05MS	FC067546.D	n-Octacosane (C28)	yogesh	12/5/2024 9:02:08 AM	Ankita	12/5/2024 9:02:48	Peak Integrated by Software

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Manual Integration Report

Sequence:	FC102824AL	Instrument	FID_c

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
P4518-05MS	FC067546.D	n-Octadecane (C18)	yogesh	12/5/2024 9:02:08 AM	Ankita	12/5/2024 9:02:48	Peak Integrated by Software
P4518-05MS	FC067546.D	n-Tetracontane (C40)	yogesh	12/5/2024 9:02:08 AM	Ankita	12/5/2024 9:02:48	Peak Integrated by Software
P4518-05MS	FC067546.D	n-Tetracosane (C24)	yogesh	12/5/2024 9:02:08 AM	Ankita	12/5/2024 9:02:48	Peak Integrated by Software
P4518-05MS	FC067546.D	n-Tetradecane (C14)	yogesh	12/5/2024 9:02:08 AM	Ankita	12/5/2024 9:02:48	Peak Integrated by Software
P4518-05MS	FC067546.D	n-Tricontane (C30)	yogesh	12/5/2024 9:02:08 AM	Ankita	12/5/2024 9:02:48	Peak Integrated by Software
P4518-05MSD	FC067547.D	1-chlorooctadecane (SURR)	yogesh	12/5/2024 9:02:09 AM	Ankita	12/5/2024 9:02:50	Peak Integrated by Software
P4518-05MSD	FC067547.D	n-Docosane (C22)	yogesh	12/5/2024 9:02:09 AM	Ankita	12/5/2024 9:02:50	Peak Integrated by Software
P4518-05MSD	FC067547.D	n-Dodecane (C12)	yogesh	12/5/2024 9:02:09 AM	Ankita	12/5/2024 9:02:50	Peak Integrated by Software
P4518-05MSD	FC067547.D	n-Dotriacontane (C32)	yogesh	12/5/2024 9:02:09 AM	Ankita	12/5/2024 9:02:50	Peak Integrated by Software
P4518-05MSD	FC067547.D	n-Eicosane (C20)	yogesh	12/5/2024 9:02:09 AM	Ankita	12/5/2024 9:02:50	Peak Integrated by Software
P4518-05MSD	FC067547.D	n-Heneicosane (C21)	yogesh	12/5/2024 9:02:09 AM	Ankita	12/5/2024 9:02:50	Peak Integrated by Software
P4518-05MSD	FC067547.D	n-Hexacosane (C26)	yogesh	12/5/2024 9:02:09 AM	Ankita	12/5/2024 9:02:50	Peak Integrated by Software
P4518-05MSD	FC067547.D	n-Hexadecane (C16)	yogesh	12/5/2024 9:02:09 AM	Ankita	12/5/2024 9:02:50	Peak Integrated by Software

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Manual Integration Report

Sequence:	FC102824AL	Instrument	FID_c

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
P4518-05MSD	FC067547.D	n-Octacosane (C28)	yogesh	12/5/2024 9:02:09 AM	Ankita	12/5/2024 9:02:50	Peak Integrated by Software
P4518-05MSD	FC067547.D	n-Octadecane (C18)	yogesh	12/5/2024 9:02:09 AM	Ankita	12/5/2024 9:02:50	Peak Integrated by Software
P4518-05MSD	FC067547.D	n-Tetracosane (C24)	yogesh	12/5/2024 9:02:09 AM	Ankita	12/5/2024 9:02:50	Peak Integrated by Software
P4518-05MSD	FC067547.D	n-Tetradecane (C14)	yogesh	12/5/2024 9:02:09 AM	Ankita	12/5/2024 9:02:50	Peak Integrated by Software
P4518-05MSD	FC067547.D	n-Tricontane (C30)	yogesh	12/5/2024 9:02:09 AM	Ankita	12/5/2024 9:02:50	Peak Integrated by Software
P4518-02DL	FC067550.D	1-chlorooctadecane (SURR)	yogesh	12/5/2024 9:02:11 AM	Ankita	12/5/2024 9:02:52	Peak Integrated by Software
P4518-02DL2	FC067553.D	1-chlorooctadecane (SURR)	yogesh	12/5/2024 9:02:13 AM	Ankita	12/5/2024 9:02:53	Peak Integrated by Software
P4518-03DL	FC067554.D	1-chlorooctadecane (SURR)	yogesh	12/5/2024 9:02:15 AM	Ankita	12/5/2024 9:02:55	Peak Integrated by Software
P4518-03DL2	FC067555.D	1-chlorooctadecane (SURR)	yogesh	12/5/2024 9:02:17 AM	Ankita	12/5/2024 9:02:57	Peak Integrated by Software
P4518-04DL2	FC067557.D	1-chlorooctadecane (SURR)	yogesh	12/5/2024 9:02:18 AM	Ankita	12/5/2024 9:02:58	Peak Integrated by Software
P4518-05DL2	FC067559.D	1-chlorooctadecane (SURR)	yogesh	12/5/2024 9:02:20 AM	Ankita	12/5/2024 9:03:00	Peak Integrated by Software

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Manual Integration Report

Sequence:	FD102324AR	Instrument	FID_d

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

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Manual Integration Report

Sequence:	FD102824AR	Instrument	FID_d

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
P4495-16	FD048598.D	2-Bromonaphthalene (SURR)	yogesh	10/29/2024 9:22:48 AM	Ankita	10/29/2024 9:55:52	Peak Integrated by Software
P4495-16	FD048598.D	2-Flurobiphenyl (SURR)	yogesh	10/29/2024 9:22:48 AM	Ankita	10/29/2024 9:55:52	Peak Integrated by Software
P4495-16	FD048598.D	ortho-Terphenyl (SURR)	yogesh	10/29/2024 9:22:48 AM	Ankita	10/29/2024 9:55:52	Peak Integrated by Software
P4495-16DL	FD048599.D	2-Bromonaphthalene (SURR)	yogesh	10/29/2024 9:22:50 AM	Ankita	10/29/2024 9:56:04	Peak Integrated by Software
P4495-16DL	FD048599.D	2-Flurobiphenyl (SURR)	yogesh	10/29/2024 9:22:50 AM	Ankita	10/29/2024 9:56:04	Peak Integrated by Software
P4495-16DL	FD048599.D	ortho-Terphenyl (SURR)	yogesh	10/29/2024 9:22:50 AM	Ankita	10/29/2024 9:56:04	Peak Integrated by Software
P4518-05	FD048600.D	2-Bromonaphthalene (SURR)	yogesh	10/29/2024 9:22:52 AM	Ankita	10/29/2024 9:56:05	Peak Integrated by Software
P4518-05	FD048600.D	2-Flurobiphenyl (SURR)	yogesh	10/29/2024 9:22:52 AM	Ankita	10/29/2024 9:56:05	Peak Integrated by Software
P4518-05	FD048600.D	ortho-Terphenyl (SURR)	yogesh	10/29/2024 9:22:52 AM	Ankita	10/29/2024 9:56:05	Peak Integrated by Software
20 PPM AROMATIC HC	FD048602.D	2-Bromonaphthalene (SURR)	yogesh	10/29/2024 9:22:53 AM	Ankita	10/29/2024 9:56:12	Peak Integrated by Software
20 PPM AROMATIC HC	FD048602.D	Flouorene (C16.55)	yogesh	10/29/2024 9:22:53 AM	Ankita	10/29/2024 9:56:12	Peak Integrated by Software
PB164396BS	FD048604.D	1,2,3-Trimethylbenzene (C10.1)	yogesh	10/29/2024 9:22:55 AM	Ankita	10/29/2024 9:56:14	Peak Integrated by Software
PB164396BS	FD048604.D	Fluoranthene (C21.85)	yogesh	10/29/2024 9:22:55 AM	Ankita	10/29/2024 9:56:14	Peak Integrated by Software

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Sequence:	FD102824AR	Instrument	FID_d

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
PB164396BSD	FD048605.D	1,2,3-Trimethylbenzene (C10.1)	yogesh	10/29/2024 9:22:56 AM	Ankita	10/29/2024 9:56:21	Peak Integrated by Software
PB164396BSD	FD048605.D	Fluoranthene (C21.85)	yogesh	10/29/2024 9:22:56 AM	Ankita	10/29/2024 9:56:21	Peak Integrated by Software
P4518-05D	FD048606.D	2-Bromonaphthalene (SURR)	yogesh	10/29/2024 9:22:58 AM	Ankita	10/29/2024 9:56:23	Peak Integrated by Software
P4518-05D	FD048606.D	2-Flurobiphenyl (SURR)	yogesh	10/29/2024 9:22:58 AM	Ankita	10/29/2024 9:56:23	Peak Integrated by Software
P4518-05D	FD048606.D	ortho-Terphenyl (SURR)	yogesh	10/29/2024 9:22:58 AM	Ankita	10/29/2024 9:56:23	Peak Integrated by Software
P4518-05MS	FD048607.D	1,2,3-Trimethylbenzene (C10.1)	yogesh	10/30/2024 8:34:41 AM	Ankita	10/30/2024 3:21:32	Peak Integrated by Software
P4518-05MS	FD048607.D	2-Bromonaphthalene (SURR)	yogesh	10/30/2024 8:34:41 AM	Ankita	10/30/2024 3:21:32	Peak Integrated by Software
P4518-05MS	FD048607.D	2-Flurobiphenyl (SURR)	yogesh	10/30/2024 8:34:41 AM	Ankita	10/30/2024 3:21:32	Peak Integrated by Software
P4518-05MS	FD048607.D	Acenaphthene (C15.5)	yogesh	10/30/2024 8:34:41 AM	Ankita	10/30/2024 3:21:32	Peak Integrated by Software
P4518-05MS	FD048607.D	Acenaphthylene (C15.06)	yogesh	10/30/2024 8:34:41 AM	Ankita	10/30/2024 3:21:32	Peak Integrated by Software
P4518-05MS	FD048607.D	Anthracene (C19.43)	yogesh	10/30/2024 8:34:41 AM	Ankita	10/30/2024 3:21:32	Peak Integrated by Software
P4518-05MS	FD048607.D	Benzo[a]anthracene (C26.37)	yogesh	10/30/2024 8:34:41 AM	Ankita	10/30/2024 3:21:32	Peak Integrated by Software
P4518-05MS	FD048607.D	Flouorene (C16.55)	yogesh	10/30/2024 8:34:41 AM	Ankita	10/30/2024 3:21:32	Peak Integrated by Software

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Sequence:	FD102824AR	Instrument	FID_d

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
P4518-05MS	FD048607.D	Fluoranthene (C21.85)	yogesh	10/30/2024 8:34:41 AM	Ankita	10/30/2024 3:21:32	Peak Integrated by Software
P4518-05MS	FD048607.D	Naphthalene (C11.7)	yogesh	10/30/2024 8:34:41 AM	Ankita	10/30/2024 3:21:32	Peak Integrated by Software
P4518-05MS	FD048607.D	ortho-Terphenyl (SURR)	yogesh	10/30/2024 8:34:41 AM	Ankita	10/30/2024 3:21:32	Peak Integrated by Software
P4518-05MS	FD048607.D	Phenanthrene (C19.36)	yogesh	10/30/2024 8:34:41 AM	Ankita	10/30/2024 3:21:32	Peak Integrated by Software
P4518-05MS	FD048607.D	Pyrene (C20.8)	yogesh	10/30/2024 8:34:41 AM	Ankita	10/30/2024 3:21:32	Peak Integrated by Software
P4518-05MSD	FD048608.D	1,2,3-Trimethylbenzene (C10.1)	yogesh	10/30/2024 8:34:44 AM	Ankita	10/30/2024 3:21:35	Peak Integrated by Software
P4518-05MSD	FD048608.D	2-Bromonaphthalene (SURR)	yogesh	10/30/2024 8:34:44 AM	Ankita	10/30/2024 3:21:35	Peak Integrated by Software
P4518-05MSD	FD048608.D	2-Flurobiphenyl (SURR)	yogesh	10/30/2024 8:34:44 AM	Ankita	10/30/2024 3:21:35	Peak Integrated by Software
P4518-05MSD	FD048608.D	Acenaphthene (C15.5)	yogesh	10/30/2024 8:34:44 AM	Ankita	10/30/2024 3:21:35	Peak Integrated by Software
P4518-05MSD	FD048608.D	Acenaphthylene (C15.06)	yogesh	10/30/2024 8:34:44 AM	Ankita	10/30/2024 3:21:35	Peak Integrated by Software
P4518-05MSD	FD048608.D	Anthracene (C19.43)	yogesh	10/30/2024 8:34:44 AM	Ankita	10/30/2024 3:21:35	Peak Integrated by Software
P4518-05MSD	FD048608.D	Flouorene (C16.55)	yogesh	10/30/2024 8:34:44 AM	Ankita	10/30/2024 3:21:35	Peak Integrated by Software
P4518-05MSD	FD048608.D	Fluoranthene (C21.85)	yogesh	10/30/2024 8:34:44 AM	Ankita	10/30/2024 3:21:35	Peak Integrated by Software

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Manual Integration Report

Sequence:	FD102824AR	Instrument	FID_d

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
P4518-05MSD	FD048608.D	Naphthalene (C11.7)	yogesh	10/30/2024 8:34:44 AM	Ankita	10/30/2024 3:21:35	Peak Integrated by Software
P4518-05MSD	FD048608.D	ortho-Terphenyl (SURR)	yogesh	10/30/2024 8:34:44 AM	Ankita	10/30/2024 3:21:35	Peak Integrated by Software
P4518-05MSD	FD048608.D	Phenanthrene (C19.36)	yogesh	10/30/2024 8:34:44 AM	Ankita	10/30/2024 3:21:35	Peak Integrated by Software
P4518-05MSD	FD048608.D	Pyrene (C20.8)	yogesh	10/30/2024 8:34:44 AM	Ankita	10/30/2024 3:21:35	Peak Integrated by Software
P4518-01DL	FD048609.D	2-Bromonaphthalene (SURR)	yogesh	10/30/2024 8:34:46 AM	Ankita	10/30/2024 3:21:37	Peak Integrated by Software
P4518-01DL	FD048609.D	2-Flurobiphenyl (SURR)	yogesh	10/30/2024 8:34:46 AM	Ankita	10/30/2024 3:21:37	Peak Integrated by Software
P4518-01DL	FD048609.D	ortho-Terphenyl (SURR)	yogesh	10/30/2024 8:34:46 AM	Ankita	10/30/2024 3:21:37	Peak Integrated by Software
P4518-02DL	FD048610.D	2-Bromonaphthalene (SURR)	yogesh	10/30/2024 8:34:48 AM	Ankita	10/30/2024 3:21:39	Peak Integrated by Software
P4518-02DL	FD048610.D	2-Flurobiphenyl (SURR)	yogesh	10/30/2024 8:34:48 AM	Ankita	10/30/2024 3:21:39	Peak Integrated by Software
P4518-02DL	FD048610.D	ortho-Terphenyl (SURR)	yogesh	10/30/2024 8:34:48 AM	Ankita	10/30/2024 3:21:39	Peak Integrated by Software
P4518-02DL2	FD048611.D	2-Bromonaphthalene (SURR)	yogesh	10/30/2024 8:34:50 AM	Ankita	10/30/2024 3:21:40	Peak Integrated by Software
P4518-02DL2	FD048611.D	2-Flurobiphenyl (SURR)	yogesh	10/30/2024 8:34:50 AM	Ankita	10/30/2024 3:21:40	Peak Integrated by Software
P4518-02DL2	FD048611.D	ortho-Terphenyl (SURR)	yogesh	10/30/2024 8:34:50 AM	Ankita	10/30/2024 3:21:40	Peak Integrated by Software

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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
P4518-03DL	FD048612.D	2-Bromonaphthalene (SURR)	yogesh	10/30/2024 8:34:52 AM	Ankita	10/30/2024 3:21:42	Peak Integrated by Software
P4518-03DL	FD048612.D	2-Flurobiphenyl (SURR)	yogesh	10/30/2024 8:34:52 AM	Ankita	10/30/2024 3:21:42	Peak Integrated by Software
P4518-03DL	FD048612.D	ortho-Terphenyl (SURR)	yogesh	10/30/2024 8:34:52 AM	Ankita	10/30/2024 3:21:42	Peak Integrated by Software
P4518-04DL	FD048615.D	2-Bromonaphthalene (SURR)	yogesh	10/30/2024 8:34:54 AM	Ankita	10/30/2024 3:21:44	Peak Integrated by Software
P4518-04DL	FD048615.D	2-Flurobiphenyl (SURR)	yogesh	10/30/2024 8:34:54 AM	Ankita	10/30/2024 3:21:44	Peak Integrated by Software
P4518-04DL	FD048615.D	ortho-Terphenyl (SURR)	yogesh	10/30/2024 8:34:54 AM	Ankita	10/30/2024 3:21:44	Peak Integrated by Software
P4518-04DL2	FD048616.D	2-Bromonaphthalene (SURR)	yogesh	10/30/2024 8:34:56 AM	Ankita	10/30/2024 3:21:46	Peak Integrated by Software
P4518-04DL2	FD048616.D	2-Flurobiphenyl (SURR)	yogesh	10/30/2024 8:34:56 AM	Ankita	10/30/2024 3:21:46	Peak Integrated by Software
P4518-04DL2	FD048616.D	ortho-Terphenyl (SURR)	yogesh	10/30/2024 8:34:56 AM	Ankita	10/30/2024 3:21:46	Peak Integrated by Software
P4518-05DL	FD048617.D	2-Bromonaphthalene (SURR)	yogesh	10/30/2024 8:34:58 AM	Ankita	10/30/2024 3:21:50	Peak Integrated by Software
P4518-05DL	FD048617.D	2-Flurobiphenyl (SURR)	yogesh	10/30/2024 8:34:58 AM	Ankita	10/30/2024 3:21:50	Peak Integrated by Software
P4518-05DL	FD048617.D	ortho-Terphenyl (SURR)	yogesh	10/30/2024 8:34:58 AM	Ankita	10/30/2024 3:21:50	Peak Integrated by Software

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Sequence:	FD102824AR	Instrument	FID_d

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

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

Instrument ID: FID_C

Daily Analysis Runlog For Sequence/QCBatch ID # FC102324AL

Review By	yogesh	Review On	10/23/2024 4:03:24 PM		
Supervise By	Ankita	Supervise On	10/24/2024 9:29:51 AM		
SubDirectory	FC102324AL	HP Acquire Method		HP Processing Method	FC102324AL

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	FC067504.D	23 Oct 2024 13:59	YP/AJ	Ok
2	I.BLK	FC067505.D	23 Oct 2024 14:35	YP/AJ	Ok
3	100 PPM ALIPHATIC HC STD1	FC067506.D	23 Oct 2024 15:12	YP/AJ	Ok
4	50 PPM ALIPHATIC HC STD2	FC067507.D	23 Oct 2024 15:48	YP/AJ	Ok
5	20 PPM ALIPHATIC HC STD3	FC067508.D	23 Oct 2024 16:25	YP/AJ	Ok
6	10 PPM ALIPHATIC HC STD4	FC067509.D	23 Oct 2024 17:02	YP/AJ	Ok
7	5 PPM ALIPHATIC HC STD5	FC067510.D	23 Oct 2024 17:38	YP/AJ	Ok
8	20 PPM ALIPHATIC HC STD ICV	FC067511.D	23 Oct 2024 18:14	YP/AJ	Ok
9	I.BLK	FC067512.D	23 Oct 2024 19:27	YP/AJ	Ok
10	20 PPM ALIPHATIC HC STD	FC067513.D	23 Oct 2024 20:03	YP/AJ	Ok

M : Manual Integration

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Instrument ID: FID_C

Daily Analysis Runlog For Sequence/QCBatch ID # FC102824AL

Review By	yogesh	Review On	10/28/2024 12:50:22 PM		
Supervise By	Ankita	Supervise On	10/29/2024 9:57:12 AM		
SubDirectory	FC102824AL	HP Acquire Method		HP Processing Method	FC102324AL

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	FC067532.D	28 Oct 2024 08:05	YP/AJ	Ok
2	I.BLK	FC067533.D	28 Oct 2024 08:40	YP/AJ	Ok
3	20 PPM ALIPHATIC HC STD	FC067534.D	28 Oct 2024 09:16	YP/AJ	Ok
4	P4495-16	FC067535.D	28 Oct 2024 09:53	YP/AJ	Dilution
5	P4495-16DL	FC067536.D	28 Oct 2024 10:32	YP/AJ	Dilution
6	P4495-16DL2	FC067537.D	28 Oct 2024 11:26	YP/AJ	Dilution
7	P4495-16DL3	FC067538.D	28 Oct 2024 12:03	YP/AJ	Ok
8	P4518-05	FC067539.D	28 Oct 2024 12:40	YP/AJ	Dilution
9	I.BLK	FC067540.D	28 Oct 2024 13:17	YP/AJ	Ok
10	20 PPM ALIPHATIC HC STD	FC067541.D	28 Oct 2024 13:55	YP/AJ	Ok,M
11	PB164396BL	FC067542.D	28 Oct 2024 14:32	YP/AJ	Ok
12	PB164396BS	FC067543.D	28 Oct 2024 15:08	YP/AJ	Ok
13	PB164396BSD	FC067544.D	28 Oct 2024 15:50	YP/AJ	Ok
14	P4518-05D	FC067545.D	28 Oct 2024 16:27	YP/AJ	Ok,M
15	P4518-05MS	FC067546.D	28 Oct 2024 17:03	YP/AJ	Ok,M
16	P4518-05MSD	FC067547.D	28 Oct 2024 17:39	YP/AJ	Ok,M
17	P4518-01DL	FC067548.D	28 Oct 2024 18:16	YP/AJ	Dilution
18	P4518-01DL2	FC067549.D	28 Oct 2024 18:52	YP/AJ	Ok
19	P4518-02DL	FC067550.D	29 Oct 2024 07:42	YP/AJ	Dilution
20	I.BLK	FC067551.D	29 Oct 2024 08:17	YP/AJ	Ok
21	20 PPM ALIPHATIC HC STD	FC067552.D	29 Oct 2024 08:54	YP/AJ	Ok

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Instrument ID: FID_C

Daily Analysis Runlog For Sequence/QCBatch ID # FC102824AL

Review By	yogesh	Review On	10/28/2024 12:50:22 PM		
Supervise By	Ankita	Supervise On	10/29/2024 9:57:12 AM		
SubDirectory	FC102824AL	HP Acquire Method		HP Processing Method	FC102324AL

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	P4518-02DL2	FC067553.D	29 Oct 2024 09:31	YP/AJ	Ok,M
23	P4518-03DL	FC067554.D	29 Oct 2024 10:08	YP/AJ	Dilution
24	P4518-03DL2	FC067555.D	29 Oct 2024 10:46	YP/AJ	Ok,M
25	P4518-04DL	FC067556.D	29 Oct 2024 11:23	YP/AJ	Dilution
26	P4518-04DL2	FC067557.D	29 Oct 2024 12:00	YP/AJ	Ok,M
27	P4518-05DL	FC067558.D	29 Oct 2024 12:38	YP/AJ	Dilution
28	P4518-05DL2	FC067559.D	29 Oct 2024 13:15	YP/AJ	Ok,M
29	I.BLK	FC067560.D	29 Oct 2024 13:52	YP/AJ	Ok
30	20 PPM ALIPHATIC HC STD	FC067561.D	29 Oct 2024 14:27	YP/AJ	Ok

M : Manual Integration

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Instrument ID: FID_D

Daily Analysis Runlog For Sequence/QCBatch ID # FD102324AR

Review By	yogesh	Review On	10/23/2024 4:04:27 PM		
Supervise By	Ankita	Supervise On	10/24/2024 9:29:45 AM		
SubDirectory	FD102324AR	HP Acquire Method		HP Processing Method	FD102324AR

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23429,PP23519,PP23520,PP23521,PP23522
CCC	PP23520
Internal Standard/PEM	
ICV/I.BLK	PP23430,PP23523
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	MECL2	FD048566.D	23 Oct 2024 13:59	YP/AJ	Ok
2	I.BLK	FD048567.D	23 Oct 2024 14:35	YP/AJ	Ok
3	100 PPM AROMATIC HC STD1	FD048568.D	23 Oct 2024 15:12	YP/AJ	Ok
4	50 PPM AROMATIC HC STD2	FD048569.D	23 Oct 2024 15:48	YP/AJ	Ok
5	20 PPM AROMATIC HC STD3	FD048570.D	23 Oct 2024 16:25	YP/AJ	Ok
6	10 PPM AROMATIC HC STD4	FD048571.D	23 Oct 2024 17:02	YP/AJ	Ok
7	5 PPM AROMATIC HC STD5	FD048572.D	23 Oct 2024 17:38	YP/AJ	Ok
8	20 PPM AROMATIC HC STD ICV	FD048573.D	23 Oct 2024 18:14	YP/AJ	Ok
9	I.BLK	FD048574.D	23 Oct 2024 19:27	YP/AJ	Ok
10	20 PPM AROMATIC HC STD	FD048575.D	23 Oct 2024 20:03	YP/AJ	Ok

M : Manual Integration

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Instrument ID: FID_D

Daily Analysis Runlog For Sequence/QCBatch ID # FD102824AR

Review By	yogesh	Review On	10/28/2024 12:51:26 PM		
Supervise By	Ankita	Supervise On	10/29/2024 9:56:56 AM		
SubDirectory	FD102824AR	HP Acquire Method		HP Processing Method	FD102324AR

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23429,PP23519,PP23520,PP23521,PP23522
CCC	PP23520
Internal Standard/PEM	
ICV/I.BLK	PP23430,PP23523
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	MECL2	FD048595.D	28 Oct 2024 08:05	YP/AJ	Ok
2	I.BLK	FD048596.D	28 Oct 2024 08:40	YP/AJ	Ok
3	20 PPM AROMATIC HC STD	FD048597.D	28 Oct 2024 09:53	YP/AJ	Ok
4	P4495-16	FD048598.D	28 Oct 2024 10:32	YP/AJ	Dilution
5	P4495-16DL	FD048599.D	28 Oct 2024 11:26	YP/AJ	Ok,M
6	P4518-05	FD048600.D	28 Oct 2024 12:03	YP/AJ	Dilution
7	I.BLK	FD048601.D	28 Oct 2024 12:40	YP/AJ	Ok
8	20 PPM AROMATIC HC STD	FD048602.D	28 Oct 2024 13:17	YP/AJ	Ok,M
9	PB164396BL	FD048603.D	28 Oct 2024 13:55	YP/AJ	Ok
10	PB164396BS	FD048604.D	28 Oct 2024 14:32	YP/AJ	Ok,M
11	PB164396BSD	FD048605.D	28 Oct 2024 15:08	YP/AJ	Ok,M
12	P4518-05D	FD048606.D	28 Oct 2024 15:50	YP/AJ	Ok,M
13	P4518-05MS	FD048607.D	28 Oct 2024 16:27	YP/AJ	Ok,M
14	P4518-05MSD	FD048608.D	28 Oct 2024 17:03	YP/AJ	Ok,M
15	P4518-01DL	FD048609.D	28 Oct 2024 17:39	YP/AJ	Ok,M
16	P4518-02DL	FD048610.D	28 Oct 2024 18:16	YP/AJ	Dilution
17	P4518-02DL2	FD048611.D	28 Oct 2024 18:52	YP/AJ	Ok,M
18	P4518-03DL	FD048612.D	29 Oct 2024 07:42	YP/AJ	Ok,M
19	I.BLK	FD048613.D	29 Oct 2024 08:17	YP/AJ	Ok
20	20 PPM AROMATIC HC STD	FD048614.D	29 Oct 2024 08:54	YP/AJ	Ok
21	P4518-04DL	FD048615.D	29 Oct 2024 09:31	YP/AJ	Dilution

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Instrument ID: FID_D

Daily Analysis Runlog For Sequence/QCBatch ID # FD102824AR

Review By	yogesh	Review On	10/28/2024 12:51:26 PM		
Supervise By	Ankita	Supervise On	10/29/2024 9:56:56 AM		
SubDirectory	FD102824AR	HP Acquire Method		HP Processing Method	FD102324AR

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23429,PP23519,PP23520,PP23521,PP23522
CCC	PP23520
Internal Standard/PEM	
ICV/I.BLK	PP23430,PP23523
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	P4518-04DL2	FD048616.D	29 Oct 2024 10:08	YP/AJ	Ok,M
23	P4518-05DL	FD048617.D	29 Oct 2024 10:46	YP/AJ	Ok,M
24	I.BLK	FD048618.D	29 Oct 2024 11:23	YP/AJ	Ok
25	20 PPM AROMATIC HC STD	FD048619.D	29 Oct 2024 12:00	YP/AJ	Ok

M : Manual Integration

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Instrument ID: FID_C

Daily Analysis Runlog For Sequence/QCBatch ID # FC102324AL

Review By	yogesh	Review On	10/23/2024 4:03:24 PM		
Supervise By	Ankita	Supervise On	10/24/2024 9:29:51 AM		
SubDirectory	FC102324AL	HP Acquire Method		HP Processing Method	FC102324AL

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	FC067504.D	23 Oct 2024 13:59		YP/AJ	Ok
2	I.BLK	I.BLK	FC067505.D	23 Oct 2024 14:35		YP/AJ	Ok
3	100 PPM ALIPHATIC H	100 PPM ALIPHATIC H	FC067506.D	23 Oct 2024 15:12		YP/AJ	Ok
4	50 PPM ALIPHATIC HC	50 PPM ALIPHATIC HC	FC067507.D	23 Oct 2024 15:48		YP/AJ	Ok
5	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FC067508.D	23 Oct 2024 16:25		YP/AJ	Ok
6	10 PPM ALIPHATIC HC	10 PPM ALIPHATIC HC	FC067509.D	23 Oct 2024 17:02		YP/AJ	Ok
7	5 PPM ALIPHATIC HC	5 PPM ALIPHATIC HC	FC067510.D	23 Oct 2024 17:38		YP/AJ	Ok
8	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FC067511.D	23 Oct 2024 18:14		YP/AJ	Ok
9	I.BLK	I.BLK	FC067512.D	23 Oct 2024 19:27		YP/AJ	Ok
10	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FC067513.D	23 Oct 2024 20:03		YP/AJ	Ok

M : Manual Integration

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Instrument ID: FID_C

Daily Analysis Runlog For Sequence/QCBatch ID # FC102824AL

Review By	yogesh	Review On	10/28/2024 12:50:22 PM		
Supervise By	Ankita	Supervise On	10/29/2024 9:57:12 AM		
SubDirectory	FC102824AL	HP Acquire Method		HP Processing Method	FC102324AL

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	FC067532.D	28 Oct 2024 08:05		YP/AJ	Ok
2	I.BLK	I.BLK	FC067533.D	28 Oct 2024 08:40		YP/AJ	Ok
3	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FC067534.D	28 Oct 2024 09:16		YP/AJ	Ok
4	P4495-16	PT-NJEPH-SOIL	FC067535.D	28 Oct 2024 09:53	need 5x 10x & 25x dilution	YP/AJ	Dilution
5	P4495-16DL	PT-NJEPH-SOILDL	FC067536.D	28 Oct 2024 10:32	need further dilution	YP/AJ	Dilution
6	P4495-16DL2	PT-NJEPH-SOILDL2	FC067537.D	28 Oct 2024 11:26	need further dilution	YP/AJ	Dilution
7	P4495-16DL3	PT-NJEPH-SOILDL3	FC067538.D	28 Oct 2024 12:03		YP/AJ	Ok
8	P4518-05	EX-5-TPH-5	FC067539.D	28 Oct 2024 12:40	need 5x & 20x dilution	YP/AJ	Dilution
9	I.BLK	I.BLK	FC067540.D	28 Oct 2024 13:17		YP/AJ	Ok
10	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FC067541.D	28 Oct 2024 13:55		YP/AJ	Ok,M
11	PB164396BL	PB164396BL	FC067542.D	28 Oct 2024 14:32		YP/AJ	Ok
12	PB164396BS	PB164396BS	FC067543.D	28 Oct 2024 15:08		YP/AJ	Ok
13	PB164396BSD	PB164396BSD	FC067544.D	28 Oct 2024 15:50		YP/AJ	Ok
14	P4518-05D	P4518-05D	FC067545.D	28 Oct 2024 16:27		YP/AJ	Ok,M
15	P4518-05MS	EX-5-TPH-5MS	FC067546.D	28 Oct 2024 17:03	FC067539.D	YP/AJ	Ok,M
16	P4518-05MSD	EX-5-TPH-5MSD	FC067547.D	28 Oct 2024 17:39	FC067539.D!FC067546.D	YP/AJ	Ok,M
17	P4518-01DL	EX-5-TPH-1DL	FC067548.D	28 Oct 2024 18:16	Need further dilution	YP/AJ	Dilution
18	P4518-01DL2	EX-5-TPH-1DL2	FC067549.D	28 Oct 2024 18:52		YP/AJ	Ok

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Instrument ID: FID_C

Daily Analysis Runlog For Sequence/QCBatch ID # FC102824AL

Review By	yogesh	Review On	10/28/2024 12:50:22 PM		
Supervise By	Ankita	Supervise On	10/29/2024 9:57:12 AM		
SubDirectory	FC102824AL	HP Acquire Method		HP Processing Method	FC102324AL

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	P4518-02DL	EX-5-TPH-2DL	FC067550.D	29 Oct 2024 07:42	Need further dilution	YP/AJ	Dilution
20	I.BLK	I.BLK	FC067551.D	29 Oct 2024 08:17		YP/AJ	Ok
21	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FC067552.D	29 Oct 2024 08:54		YP/AJ	Ok
22	P4518-02DL2	EX-5-TPH-2DL2	FC067553.D	29 Oct 2024 09:31		YP/AJ	Ok,M
23	P4518-03DL	EX-5-TPH-3DL	FC067554.D	29 Oct 2024 10:08	Need further dilution	YP/AJ	Dilution
24	P4518-03DL2	EX-5-TPH-3DL2	FC067555.D	29 Oct 2024 10:46		YP/AJ	Ok,M
25	P4518-04DL	EX-5-TPH-4DL	FC067556.D	29 Oct 2024 11:23	Need further dilution	YP/AJ	Dilution
26	P4518-04DL2	EX-5-TPH-4DL2	FC067557.D	29 Oct 2024 12:00		YP/AJ	Ok,M
27	P4518-05DL	EX-5-TPH-5DL	FC067558.D	29 Oct 2024 12:38	Need further dilution	YP/AJ	Dilution
28	P4518-05DL2	EX-5-TPH-5DL2	FC067559.D	29 Oct 2024 13:15		YP/AJ	Ok,M
29	I.BLK	I.BLK	FC067560.D	29 Oct 2024 13:52		YP/AJ	Ok
30	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FC067561.D	29 Oct 2024 14:27		YP/AJ	Ok

M : Manual Integration

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Instrument ID: FID_D

Daily Analysis Runlog For Sequence/QCBatch ID # FD102324AR

Review By	yogesh	Review On	10/23/2024 4:04:27 PM		
Supervise By	Ankita	Supervise On	10/24/2024 9:29:45 AM		
SubDirectory	FD102324AR	HP Acquire Method		HP Processing Method	FD102324AR

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23429,PP23519,PP23520,PP23521,PP23522
CCC	PP23520
Internal Standard/PEM	
ICV/I.BLK	PP23430,PP23523
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	MECL2	MECL2	FD048566.D	23 Oct 2024 13:59		YP/AJ	Ok
2	I.BLK	I.BLK	FD048567.D	23 Oct 2024 14:35		YP/AJ	Ok
3	100 PPM AROMATIC H	100 PPM AROMATIC H	FD048568.D	23 Oct 2024 15:12		YP/AJ	Ok
4	50 PPM AROMATIC HC	50 PPM AROMATIC HC	FD048569.D	23 Oct 2024 15:48		YP/AJ	Ok
5	20 PPM AROMATIC HC	20 PPM AROMATIC HC	FD048570.D	23 Oct 2024 16:25		YP/AJ	Ok
6	10 PPM AROMATIC HC	10 PPM AROMATIC HC	FD048571.D	23 Oct 2024 17:02		YP/AJ	Ok
7	5 PPM AROMATIC HC	5 PPM AROMATIC HC	FD048572.D	23 Oct 2024 17:38		YP/AJ	Ok
8	20 PPM AROMATIC HC	20 PPM AROMATIC HC	FD048573.D	23 Oct 2024 18:14		YP/AJ	Ok
9	I.BLK	I.BLK	FD048574.D	23 Oct 2024 19:27		YP/AJ	Ok
10	20 PPM AROMATIC HC	20 PPM AROMATIC HC	FD048575.D	23 Oct 2024 20:03		YP/AJ	Ok

M : Manual Integration

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

Instrument ID: FID_D

Daily Analysis Runlog For Sequence/QCBatch ID # FD102824AR

Review By	yogesh	Review On	10/28/2024 12:51:26 PM		
Supervise By	Ankita	Supervise On	10/29/2024 9:56:56 AM		
SubDirectory	FD102824AR	HP Acquire Method		HP Processing Method	FD102324AR

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23429,PP23519,PP23520,PP23521,PP23522
CCC	PP23520
Internal Standard/PEM	
ICV/I.BLK	PP23430,PP23523
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	MECL2	MECL2	FD048595.D	28 Oct 2024 08:05		YP/AJ	Ok
2	I.BLK	I.BLK	FD048596.D	28 Oct 2024 08:40		YP/AJ	Ok
3	20 PPM AROMATIC HC	20 PPM AROMATIC HC	FD048597.D	28 Oct 2024 09:53		YP/AJ	Ok
4	P4495-16	PT-NJEPH-SOIL	FD048598.D	28 Oct 2024 10:32	need 5x dilution	YP/AJ	Dilution
5	P4495-16DL	PT-NJEPH-SOILDL	FD048599.D	28 Oct 2024 11:26		YP/AJ	Ok,M
6	P4518-05	EX-5-TPH-5	FD048600.D	28 Oct 2024 12:03	need 5x dilution	YP/AJ	Dilution
7	I.BLK	I.BLK	FD048601.D	28 Oct 2024 12:40		YP/AJ	Ok
8	20 PPM AROMATIC HC	20 PPM AROMATIC HC	FD048602.D	28 Oct 2024 13:17		YP/AJ	Ok,M
9	PB164396BL	PB164396BL	FD048603.D	28 Oct 2024 13:55		YP/AJ	Ok
10	PB164396BS	PB164396BS	FD048604.D	28 Oct 2024 14:32		YP/AJ	Ok,M
11	PB164396BSD	PB164396BSD	FD048605.D	28 Oct 2024 15:08		YP/AJ	Ok,M
12	P4518-05D	P4518-05D	FD048606.D	28 Oct 2024 15:50		YP/AJ	Ok,M
13	P4518-05MS	EX-5-TPH-5MS	FD048607.D	28 Oct 2024 16:27	FD048600.D	YP/AJ	Ok,M
14	P4518-05MSD	EX-5-TPH-5MSD	FD048608.D	28 Oct 2024 17:03	FD048600.D!FD048607.D	YP/AJ	Ok,M
15	P4518-01DL	EX-5-TPH-1DL	FD048609.D	28 Oct 2024 17:39		YP/AJ	Ok,M
16	P4518-02DL	EX-5-TPH-2DL	FD048610.D	28 Oct 2024 18:16	need further dilution	YP/AJ	Dilution
17	P4518-02DL2	EX-5-TPH-2DL2	FD048611.D	28 Oct 2024 18:52		YP/AJ	Ok,M
18	P4518-03DL	EX-5-TPH-3DL	FD048612.D	29 Oct 2024 07:42		YP/AJ	Ok,M

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

Instrument ID: FID_D

Daily Analysis Runlog For Sequence/QCBatch ID # FD102824AR

Review By	yogesh	Review On	10/28/2024 12:51:26 PM		
Supervise By	Ankita	Supervise On	10/29/2024 9:56:56 AM		
SubDirectory	FD102824AR	HP Acquire Method		HP Processing Method	FD102324AR

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23429,PP23519,PP23520,PP23521,PP23522
CCC	PP23520
Internal Standard/PEM	
ICV/I.BLK	PP23430,PP23523
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	I.BLK	I.BLK	FD048613.D	29 Oct 2024 08:17		YP/AJ	Ok
20	20 PPM AROMATIC HC	20 PPM AROMATIC HC	FD048614.D	29 Oct 2024 08:54		YP/AJ	Ok
21	P4518-04DL	EX-5-TPH-4DL	FD048615.D	29 Oct 2024 09:31	need further dilution	YP/AJ	Dilution
22	P4518-04DL2	EX-5-TPH-4DL2	FD048616.D	29 Oct 2024 10:08		YP/AJ	Ok,M
23	P4518-05DL	EX-5-TPH-5DL	FD048617.D	29 Oct 2024 10:46		YP/AJ	Ok,M
24	I.BLK	I.BLK	FD048618.D	29 Oct 2024 11:23		YP/AJ	Ok
25	20 PPM AROMATIC HC	20 PPM AROMATIC HC	FD048619.D	29 Oct 2024 12:00		YP/AJ	Ok

M : Manual Integration

PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 10/25/2024

OVENTEMP IN Celsius(°C): 107
Time IN: 17:25
In Date: 10/23/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:20
Out Date: 10/24/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC: LB133085

Lab ID	Client SampleID	Dish #	Dish Wt(g) (A)	Sample Wt(g)	Dish + Sample Wt(g) (B)	Dish+Dry Sample Wt(g) (C)	% Solid	Comments
P4488-09	HCC-1	1	1.00	1.00	2.00	2.00	100.0	oil sample
P4488-10	HCC-2	2	1.00	1.00	2.00	2.00	100.0	oil sample
P4495-01	PT-AN-SOIL	3	1.00	1.00	2.00	2.00	100.0	
P4495-02	PT-CORR-SOIL	4	1.00	1.00	2.00	2.00	100.0	
P4495-03	PT-CN-SOIL	5	1.00	1.00	2.00	2.00	100.0	
P4495-04	PT-CN-SOIL	6	1.00	1.00	2.00	2.00	100.0	
P4495-05	PT-FP-SOIL	7	1.00	1.00	2.00	2.00	100.0	
P4495-06	PT-CR6-SOIL	8	1.00	1.00	2.00	2.00	100.0	
P4495-07	PT-NUT-SOIL	9	1.00	1.00	2.00	2.00	100.0	
P4495-08	PT-NUT-SOIL	10	1.00	1.00	2.00	2.00	100.0	
P4495-09	PT-OGR-SOIL	11	1.00	1.00	2.00	2.00	100.0	
P4495-10	PT-MET-SOIL	12	1.00	1.00	2.00	2.00	100.0	
P4495-11	PT-BNA-SOIL	13	1.00	1.00	2.00	2.00	100.0	
P4495-12	PT-TRIAZINE-SOIL	14	1.00	1.00	2.00	2.00	100.0	
P4495-13	PT-PAH-SOIL	15	1.00	1.00	2.00	2.00	100.0	
P4495-14	PT-DIES-SOIL	16	1.00	1.00	2.00	2.00	100.0	
P4495-15	PT-GAS-SOIL	17	1.00	1.00	2.00	2.00	100.0	
P4495-16	PT-NJEPH-SOIL	18	1.00	1.00	2.00	2.00	100.0	
P4495-17	PT-HERB-SOIL	19	1.00	1.00	2.00	2.00	100.0	
P4495-18	PT-PCB-SOIL	20	1.00	1.00	2.00	2.00	100.0	
P4495-19	PT-PCBO-SOIL	21	1.00	1.00	2.00	2.00	100.0	
P4495-20	PT-PEST-SOIL	22	1.00	1.00	2.00	2.00	100.0	
P4495-21	PT-CHLR-SOIL	23	1.00	1.00	2.00	2.00	100.0	
P4495-22	PT-TXP-SOIL	24	1.00	1.00	2.00	2.00	100.0	
P4495-23	PT-VOA-SOIL	25	1.00	1.00	2.00	2.00	100.0	
P4495-24	PT-SOL-SOIL	26	0.92	8.80	9.72	7.58	75.7	
P4495-25	PT-NO2-SOIL	27	1.00	1.00	2.00	2.00	100.0	
P4508-01	TP-3	28	1.14	8.38	9.52	8.64	89.5	

PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 10/25/2024

OVENTEMP IN Celsius(°C): 107
Time IN: 17:25
In Date: 10/23/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:20
Out Date: 10/24/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC: LB133085

Lab ID	Client SampleID	Dish #	Dish Wt(g) (A)	Sample Wt(g)	Dish + Sample Wt(g) (B)	Dish+Dry Sample Wt(g) (C)	% Solid	Comments
P4508-02	TP-3-EPH	29	1.15	8.81	9.96	9.22	91.6	
P4508-03	TP-3-VOC	30	1.15	8.66	9.81	8.88	89.3	
P4508-05	BP-F23	31	1.15	8.82	9.97	9.22	91.5	
P4508-06	BP-F23-EPH	32	1.14	8.83	9.97	9.29	92.3	
P4508-07	BP-F23-VOC	33	1.15	8.40	9.55	8.61	88.8	
P4508-09	BP-F22	34	1.18	8.78	9.96	9.15	90.8	
P4508-10	BP-F22-EPH	35	1.15	8.70	9.85	8.98	90.0	
P4508-11	BP-F22-VOC	36	1.16	8.60	9.76	8.68	87.4	
P4509-02	AU-06-10232024	37	1.12	8.82	9.94	9.44	94.3	
P4510-01	FDH119M-1-1	38	1.00	1.00	2.00	2.00	100.0	pilc
P4510-02	FDH119M-1-2	39	1.00	1.00	2.00	2.00	100.0	pilc
P4510-03	BC271327-1-1	40	1.00	1.00	2.00	2.00	100.0	pilc
P4510-04	BC271327-1-2	41	1.00	1.00	2.00	2.00	100.0	pilc
P4510-05	BC271327-2-1	42	1.00	1.00	2.00	2.00	100.0	pilc
P4510-06	BC271327-2-2	43	1.00	1.00	2.00	2.00	100.0	pilc
P4510-07	FDA886K-1-1	44	1.00	1.00	2.00	2.00	100.0	pilc
P4510-08	FDA886K-1-2	45	1.00	1.00	2.00	2.00	100.0	pilc
P4510-09	FDA886K-2-1	46	1.00	1.00	2.00	2.00	100.0	pilc
P4510-10	FDA886K-2-2	47	1.00	1.00	2.00	2.00	100.0	pilc
P4510-11	HID111K-1-1	48	1.00	1.00	2.00	2.00	100.0	pilc
P4510-12	HID111K-1-2	49	1.00	1.00	2.00	2.00	100.0	pilc
P4510-13	HID111K-2-1	50	1.00	1.00	2.00	2.00	100.0	pilc
P4510-14	HID111K-2-2	51	1.00	1.00	2.00	2.00	100.0	pilc
P4510-15	HID111K-3-1	52	1.00	1.00	2.00	2.00	100.0	pilc
P4510-16	HID111K-3-2	53	1.00	1.00	2.00	2.00	100.0	pilc
P4510-17	FDA563W-1-1	54	1.00	1.00	2.00	2.00	100.0	pilc
P4510-18	FDA563W-1-2	55	1.00	1.00	2.00	2.00	100.0	pilc
P4510-19	FDA563W-2-1	56	1.00	1.00	2.00	2.00	100.0	pilc

PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 10/25/2024

OVENTEMP IN Celsius(°C): 107
Time IN: 17:25
In Date: 10/23/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:20
Out Date: 10/24/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC: LB133085

Lab ID	Client SampleID	Dish #	Dish Wt(g) (A)	Sample Wt(g)	Dish + Sample Wt(g) (B)	Dish+Dry Sample Wt(g) (C)	% Solid	Comments
P4510-20	FDA563W-2-2	57	1.00	1.00	2.00	2.00	100.0	oilc
P4510-21	JEC128C-1-1	58	1.00	1.00	2.00	2.00	100.0	oilc
P4510-22	JEC128C-1-2	59	1.00	1.00	2.00	2.00	100.0	oilc
P4510-23	JEC128C-2-1	60	1.00	1.00	2.00	2.00	100.0	oilc
P4510-24	JEC128C-2-2	61	1.00	1.00	2.00	2.00	100.0	oilc
P4511-02	267	62	1.00	1.00	2.00	2.00	100.0	debris
P4512-03	VNJ-212	63	1.15	8.81	9.96	9.66	96.6	
P4512-04	VNJ-212-E2	64	1.16	8.48	9.64	9.39	97.1	
P4513-01	D3683	65	1.00	1.00	2.00	2.00	100.0	oil sample
P4513-02	D3694	66	1.00	1.00	2.00	2.00	100.0	debris
P4513-03	D3695	67	1.00	1.00	2.00	2.00	100.0	debris
P4514-01	BC274653-1-1	68	1.00	1.00	2.00	2.00	100.0	oilc
P4514-02	BC274653-1-2	69	1.00	1.00	2.00	2.00	100.0	oilc
P4514-03	BC274767-1-1	70	1.00	1.00	2.00	2.00	100.0	oilc
P4514-04	BC274767-1-2	71	1.00	1.00	2.00	2.00	100.0	oilc
P4514-05	BC274767-2-1	72	1.00	1.00	2.00	2.00	100.0	oilc
P4514-06	BC274767-2-2	73	1.00	1.00	2.00	2.00	100.0	oilc
P4515-01	CHVB0783	74	1.15	8.83	9.98	5.28	46.8	
P4516-01	72-11986	75	1.12	8.67	9.79	8.93	90.1	
P4517-01	NASSAU-ST-CO	76	1.00	1.00	2.00	2.00	100.0	CONCRETE sample
P4517-03	S.JEFFERSON-CO-1	77	1.00	1.00	2.00	2.00	100.0	CONCRETE sample
P4517-05	S.JEFFERSON-CO-2	78	1.00	1.00	2.00	2.00	100.0	CONCRETE sample
P4517-07	FOREST-ST-CO	79	1.00	1.00	2.00	2.00	100.0	CONCRETE sample

$$\% \text{ Solid} = \frac{(C-A) * 100}{(B-A)}$$

WORKLIST(Hardcopy Internal Chain)

MB133085

WorkList Name : %1-102324 **WorkList ID :** 184679 **Department :** Wet-Chemistry **Date :** 10-23-2024 08:16:39

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4488-09	HCC-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/22/2024	Chemtech -SO
P4488-10	HCC-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/22/2024	Chemtech -SO
P4495-01	PT-AN-SOIL	Solid	Percent Solids	Cool 4 deg C	CHEM02	QA Of	10/21/2024	Chemtech -SO
P4495-02	PT-CORR-SOIL	Solid	Percent Solids	Cool 4 deg C	CHEM02	QA Of	10/21/2024	Chemtech -SO
P4495-03	PT-CN-SOIL	Solid	Percent Solids	Cool 4 deg C	CHEM02	QA Of	10/21/2024	Chemtech -SO
P4495-04	PT-CN-SOIL	Solid	Percent Solids	Cool 4 deg C	CHEM02	QA Of	10/21/2024	Chemtech -SO
P4495-05	PT-FP-SOIL	Solid	Percent Solids	Cool 4 deg C	CHEM02	QA Of	10/21/2024	Chemtech -SO
P4495-06	PT-CR6-SOIL	Solid	Percent Solids	Cool 4 deg C	CHEM02	QA Of	10/21/2024	Chemtech -SO
P4495-07	PT-NUT-SOIL	Solid	Percent Solids	Cool 4 deg C	CHEM02	QA Of	10/21/2024	Chemtech -SO
P4495-08	PT-NUT-SOIL	Solid	Percent Solids	Cool 4 deg C	CHEM02	QA Of	10/21/2024	Chemtech -SO
P4495-09	PT-OGR-SOIL	Solid	Percent Solids	Cool 4 deg C	CHEM02	QA Of	10/21/2024	Chemtech -SO
P4495-10	PT-MET-SOIL	Solid	Percent Solids	Cool 4 deg C	CHEM02	QA Of	10/21/2024	Chemtech -SO
P4495-11	PT-BNA-SOIL	Solid	Percent Solids	Cool 4 deg C	CHEM02	QA Of	10/21/2024	Chemtech -SO
P4495-12	PT-TRIAZINE-SOIL	Solid	Percent Solids	Cool 4 deg C	CHEM02	QA Of	10/21/2024	Chemtech -SO
P4495-13	PT-PAH-SOIL	Solid	Percent Solids	Cool 4 deg C	CHEM02	QA Of	10/21/2024	Chemtech -SO
P4495-14	PT-DIES-SOIL	Solid	Percent Solids	Cool 4 deg C	CHEM02	QA Of	10/21/2024	Chemtech -SO
P4495-15	PT-GAS-SOIL	Solid	Percent Solids	Cool 4 deg C	CHEM02	QA Of	10/21/2024	Chemtech -SO
P4495-16	PT-NJEPH-SOIL	Solid	Percent Solids	Cool 4 deg C	CHEM02	QA Of	10/21/2024	Chemtech -SO
P4495-17	PT-HERB-SOIL	Solid	Percent Solids	Cool 4 deg C	CHEM02	QA Of	10/21/2024	Chemtech -SO
P4495-18	PT-PCB-SOIL	Solid	Percent Solids	Cool 4 deg C	CHEM02	QA Of	10/21/2024	Chemtech -SO
P4495-19	PT-PCBO-SOIL	Solid	Percent Solids	Cool 4 deg C	CHEM02	QA Of	10/21/2024	Chemtech -SO

Date/Time 10/23/24 16:00

Raw Sample Received by: JD (WC)

Raw Sample Relinquished by:

Date/Time 10/23/24 17:30

Raw Sample Received by:

Raw Sample Relinquished by: JD (WC)

WORKLIST(Hardcopy Internal Chain)

WB 133085

WorkList Name : %1-102324 **WorkList ID :** 184679 **Department :** Wet-Chemistry **Date :** 10-23-2024 08:16:39

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4495-20	PT-PEST-SOIL	Solid	Percent Solids	Cool 4 deg C	CHEM02	QA Of	10/21/2024	Chemtech -SO
P4495-21	PT-CHLR-SOIL	Solid	Percent Solids	Cool 4 deg C	CHEM02	QA Of	10/21/2024	Chemtech -SO
P4495-22	PT-TXP-SOIL	Solid	Percent Solids	Cool 4 deg C	CHEM02	QA Of	10/21/2024	Chemtech -SO
P4495-23	PT-VOA-SOIL	Solid	Percent Solids	Cool 4 deg C	CHEM02	QA Of	10/21/2024	Chemtech -SO
P4495-24	PT-SOL-SOIL	Solid	Percent Solids	Cool 4 deg C	CHEM02	QA Of	10/21/2024	Chemtech -SO
P4495-25	PT-NO2-SOIL	Solid	Percent Solids	Cool 4 deg C	CHEM02	QA Of	10/21/2024	Chemtech -SO
P4508-01	TP-3	Solid	Percent Solids	Cool 4 deg C	PSEG03	K63	10/23/2024	Chemtech -SO
P4508-02	TP-3-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	K63	10/23/2024	Chemtech -SO
P4508-03	TP-3-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	K63	10/23/2024	Chemtech -SO
P4508-05	BP-F23	Solid	Percent Solids	Cool 4 deg C	PSEG03	K63	10/23/2024	Chemtech -SO
P4508-06	BP-F23-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	K63	10/23/2024	Chemtech -SO
P4508-07	BP-F23-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	K63	10/23/2024	Chemtech -SO
P4508-09	BP-F22	Solid	Percent Solids	Cool 4 deg C	PSEG03	K63	10/23/2024	Chemtech -SO
P4508-10	BP-F22-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	K63	10/23/2024	Chemtech -SO
P4508-11	BP-F22-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	K63	10/23/2024	Chemtech -SO
P4509-02	AU-06-10232024	Solid	Percent Solids	Cool 4 deg C	PSEG05	K61	10/23/2024	Chemtech -SO
P4510-01	FDH119M-1-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/23/2024	Chemtech -SO
P4510-02	FDH119M-1-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/23/2024	Chemtech -SO
P4510-03	BC271327-1-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/23/2024	Chemtech -SO
P4510-04	BC271327-1-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/23/2024	Chemtech -SO
P4510-05	BC271327-2-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/23/2024	Chemtech -SO

Date/Time 10/23/24 16:00

Raw Sample Received by: (WC)

Raw Sample Relinquished by:

Date/Time 10/23/24 17:30

Raw Sample Received by:

Raw Sample Relinquished by: (WC)

WORKLIST(Hardcopy Internal Chain)

B33085

WorkList Name : %1-102324 **WorkList ID :** 184679 **Department :** Wet-Chemistry **Date :** 10-23-2024 08:16:39

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4510-06	BC271327-2-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/23/2024	Chemtech -SO
P4510-07	FDA886K-1-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/23/2024	Chemtech -SO
P4510-08	FDA886K-1-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/23/2024	Chemtech -SO
P4510-09	FDA886K-2-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/23/2024	Chemtech -SO
P4510-10	FDA886K-2-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/23/2024	Chemtech -SO
P4510-11	HID111K-1-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/23/2024	Chemtech -SO
P4510-12	HID111K-1-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/23/2024	Chemtech -SO
P4510-13	HID111K-2-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/23/2024	Chemtech -SO
P4510-14	HID111K-2-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/23/2024	Chemtech -SO
P4510-15	HID111K-3-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/23/2024	Chemtech -SO
P4510-16	HID111K-3-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/23/2024	Chemtech -SO
P4510-17	FDA563W-1-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/23/2024	Chemtech -SO
P4510-18	FDA563W-1-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/23/2024	Chemtech -SO
P4510-19	FDA563W-2-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/23/2024	Chemtech -SO
P4510-20	FDA563W-2-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/23/2024	Chemtech -SO
P4510-21	JEC128C-1-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/23/2024	Chemtech -SO
P4510-22	JEC128C-1-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/23/2024	Chemtech -SO
P4510-23	JEC128C-2-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/23/2024	Chemtech -SO
P4510-24	JEC128C-2-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/23/2024	Chemtech -SO
P4511-02	267	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/23/2024	Chemtech -SO
P4512-03	VNJ-212	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/23/2024	Chemtech -SO

Date/Time 10/23/24 1610

Raw Sample Received by: JB CWC

Raw Sample Relinquished by:

Date/Time 10/23/24 1730

Raw Sample Received by:

Raw Sample Relinquished by: JB CWC

WORKLIST(Hardcopy Internal Chain)

WB 133085

WorkList Name : %1-102324 **WorkList ID :** 184679 **Department :** Wet-Chemistry **Date :** 10-23-2024 08:16:39

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4512-04	VNJ-212-E2	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/23/2024	Chemtech -SO
P4513-01	D3683	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/23/2024	Chemtech -SO
P4513-02	D3694	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/23/2024	Chemtech -SO
P4513-03	D3695	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/23/2024	Chemtech -SO
P4514-01	BC274653-1-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	K31	10/23/2024	Chemtech -SO
P4514-02	BC274653-1-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	K31	10/23/2024	Chemtech -SO
P4514-03	BC274767-1-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	K31	10/23/2024	Chemtech -SO
P4514-04	BC274767-1-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	K31	10/23/2024	Chemtech -SO
P4514-05	BC274767-2-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	K31	10/23/2024	Chemtech -SO
P4514-06	BC274767-2-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	K31	10/23/2024	Chemtech -SO
P4515-01	CHVB0783	Solid	Percent Solids	Cool 4 deg C	PSEG03	K62	10/23/2024	Chemtech -SO
P4516-01	72-11986	Solid	Percent Solids	Cool 4 deg C	PSEG03	K62	10/23/2024	Chemtech -SO
P4517-01	NASSAU-ST-CO	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/23/2024	Chemtech -SO
P4517-03	S.JEFFERSON-CO-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/23/2024	Chemtech -SO
P4517-05	S.JEFFERSON-CO-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/23/2024	Chemtech -SO
P4517-07	FOREST-ST-CO	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/23/2024	Chemtech -SO

Date/Time 10/23/24 1610

Raw Sample Received by: [signature]

Raw Sample Relinquished by: [signature]

Date/Time 10/23/24 1730

Raw Sample Received by: [signature]

Raw Sample Relinquished by: [signature]

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PB164396

SOP ID:	MNJDEP-EPH-7				
Clean Up SOP #:	N/A			**Extraction Start Date :**	10/25/2024
Matrix :	Solid			**Extraction Start Time :**	09:05
Weigh By:	EH	**Extraction By:**	RS	**Extraction End Date :**	10/25/2024
Balance check:	RJ	**Filter By:**	RJ	**Extraction End Time :**	15:55
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
Surrogate	1.0ML	100 PPM	PP23706
Fractionation Surrogate	1.0ML	100 PPM	PP238962
Spike Sol 1	1.0ML	100 PPM	PP23712
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
Hexane	N/A	E3819
EPH Cartridge	N/A	E3757
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

1.5ML Vial Lot # 2210673.

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
10/25/24	RP (Ext. Lab)	Y. P. Pest IPCB.
16:00	**Preparation Group**	**Analysis Group**

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PrepBatch ID : PB164396

Analytical Method: MNJDEP-EPH-7

Concentration Date: 10/25/2024

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB164396BL	PB164396BL	EPH	30.01	N/A	ritesh	Evelyn	2			U1-1
PB164396BS	PB164396BS	EPH	30.03	N/A	ritesh	Evelyn	2			2
PB164396BSD	PB164396BSD	EPH	30.02	N/A	ritesh	Evelyn	2			3
P4495-16	PT-NJEPH-SOIL	EPH	20.27	N/A	ritesh	Evelyn	2			4
P4518-01	EX-5-TPH-1	EPH	30.07	N/A	ritesh	Evelyn	2	E		5
P4518-02	EX-5-TPH-2	EPH	30.05	N/A	ritesh	Evelyn	2	E		6
P4518-03	EX-5-TPH-3	EPH	30.03	N/A	ritesh	Evelyn	2	E		U5-1
P4518-04	EX-5-TPH-4	EPH	30.08	N/A	ritesh	Evelyn	2	E		2
P4518-05	EX-5-TPH-5	EPH	30.10	N/A	ritesh	Evelyn	2	E		3
P4518-05DUP	EX-5-TPH-5DUP	EPH	30.04	N/A	ritesh	Evelyn	2	E		4
P4518-05MS	EX-5-TPH-5MS	EPH	30.02	N/A	ritesh	Evelyn	2	E		5
P4518-05MSD	EX-5-TPH-5MSD	EPH	30.06	N/A	ritesh	Evelyn	2	E		6

* **Extracts relinquished on the same date as received.**

10/25/24

164396
9:05

WORKLIST(Hardcopy Internal Chain)

WorkList Name : P4518N **WorkList ID :** 184766 **Department :** Extraction **Date :** 10-25-2024 08:45:25

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4495-16	PT-NJEPH-SOIL	Solid	EPH	Cool 4 deg C	CHEM02	QA Of	10/21/2024	NJEPH
P4518-01	EX-5-TPH-1	Solid	EPH	Cool 4 deg C	ENTA05	K61	10/23/2024	NJEPH
P4518-02	EX-5-TPH-2	Solid	EPH	Cool 4 deg C	ENTA05	K61	10/23/2024	NJEPH
P4518-03	EX-5-TPH-3	Solid	EPH	Cool 4 deg C	ENTA05	K61	10/23/2024	NJEPH
P4518-04	EX-5-TPH-4	Solid	EPH	Cool 4 deg C	ENTA05	K61	10/23/2024	NJEPH
P4518-05	EX-5-TPH-5	Solid	EPH	Cool 4 deg C	ENTA05	K61	10/23/2024	NJEPH
P4531-01	OR-03-102424	Solid	EPH_NF	Cool 4 deg C	PSEG05	K61	10/24/2024	NJEPH
P4531-02	OR-03-102424-E2	Solid	EPH_NF	Cool 4 deg C	PSEG05	K61	10/24/2024	NJEPH
P4545-01	VNJ-215	Solid	EPH_NF	Cool 4 deg C	PSEG03	K61	10/24/2024	NJEPH
P4547-01	BP-F-21	Solid	EPH_NF	Cool 4 deg C	PSEG03	K51	10/24/2024	NJEPH
P4547-02	BP-F-21-EPH	Solid	EPH_NF	Cool 4 deg C	PSEG03	K51	10/24/2024	NJEPH
P4547-05	BP-F-20	Solid	EPH_NF	Cool 4 deg C	PSEG03	K51	10/24/2024	NJEPH
P4547-06	BP-F-20-EPH	Solid	EPH_NF	Cool 4 deg C	PSEG03	K51	10/24/2024	NJEPH

Date/Time 10/25/24 9:00
Raw Sample Received by: RJ (Ext Lab)
Raw Sample Relinquished by: [signature]

Date/Time 10/25/24 9:30
Raw Sample Received by: [signature]
Raw Sample Relinquished by: RJ (Ext Lab)

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Prep Standard - Chemical Standard Summary

Order ID : P4495

Test : EPH

Prepbatch ID : PB164396,

Sequence ID/Qc Batch ID: FC102824AL,FD102824AR,

Standard ID :
EP2538,EP2551,PP23429,PP23430,PP23519,PP23520,PP23521,PP23522,PP23523,PP23644,PP23645,PP23646,PP23647,PP23648,PP23649,PP23650,PP23706,PP23712,PP238962,

Chemical ID :
E2865,E3551,E3743,E3757,E3768,E3788,E3789,E3793,E3794,E3819,P10259,P 11137,P12362,P12972,P13004,P13005,P13017,P13018,P13019,P13020,P13022,P13044,P13045,P13047,P13048,P13094,P13096,P13258,P13259,P13278,P13424,P13430,P13431,P13432,P13433,P13434,P13435,P13436,P13442,P13444,P13447,P13448,P13451,P13452,P13453,P13454,P13455,P13456,

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Extractions STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3868	METHELENE CHLORIDE+ACETONE	EP2538	09/17/2024	03/11/2025	Rajesh Parikh	None	None	RUPESHKUMAR SHAH 09/17/2024

FROM 8000.00000ml of E3793 + 8000.00000ml of E3794 = Final Quantity: 1600.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3923	Baked Sodium Sulfate	EP2551	10/18/2024	01/03/2025	Rajesh Parikh	Extraction_SCALE_2 (EX-SC-2)	None	RUPESHKUMAR SHAH 10/18/2024

FROM 4000.00000gram of E3551 = Final Quantity: 4000.000 gram

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Pest/Pcb STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
782	100 PPM Aromatic HC Working STD	PP23429	05/21/2024	11/16/2024	Yogesh Patel	None	None	Ankita Jodhani 05/24/2024

FROM 0.25000ml of P13004 + 0.62500ml of P13259 + 1.25000ml of P10259 + 22.87500ml of E3743 = Final Quantity: 25.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
2945	100 PPM Aromatic HC Working STD (Absolute)	PP23430	05/21/2024	11/16/2024	Yogesh Patel	None	None	Ankita Jodhani 05/24/2024

FROM 0.25000ml of P13005 + 0.62500ml of P13258 + 1.25000ml of P11137 + 22.87500ml of E3743 = Final Quantity: 25.000 ml

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Pest/Pcb STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
787	50 PPM Aromatic HC STD	PP23519	07/15/2024	11/16/2024	Yogesh Patel	None	None	Ankita Jodhani 07/16/2024

FROM 0.50000ml of E3768 + 0.50000ml of PP23429 = Final Quantity: 1.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
788	20 PPM Aromatic HC STD	PP23520	07/15/2024	11/16/2024	Yogesh Patel	None	None	Ankita Jodhani 07/16/2024

FROM 0.80000ml of E3768 + 0.20000ml of PP23429 = Final Quantity: 1.000 ml

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Pest/Pcb STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
789	10 PPM Aromatic HC STD	PP23521	07/15/2024	11/16/2024	Yogesh Patel	None	None	Ankita Jodhani 07/16/2024

FROM 0.90000ml of E3768 + 0.10000ml of PP23429 = Final Quantity: 1.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
790	5 PPM Aromatic HC STD	PP23522	07/15/2024	11/16/2024	Yogesh Patel	None	None	Ankita Jodhani 07/16/2024

FROM 0.90000ml of E3768 + 0.10000ml of PP23519 = Final Quantity: 1.000 ml

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Pest/Pcb STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
2946	20 PPM Aromatic HC STD ICV (Absolute)	PP23523	07/15/2024	11/16/2024	Yogesh Patel	None	None	Ankita Jodhani 07/16/2024

FROM 0.80000ml of E3768 + 0.20000ml of PP23430 = Final Quantity: 1.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
781	100 PPM Aliphatic HC Working STD (Restek)	PP23644	09/09/2024	02/13/2025	Yogesh Patel	None	None	Ankita Jodhani 09/10/2024

FROM 0.25000ml of P12972 + 0.25000ml of P13017 + 1.25000ml of P12362 + 23.25000ml of E3789 = Final Quantity: 25.000 ml

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Pest/Pcb STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
2900	100 PPM Aliphatic HC STD (Absolute)	PP23645	09/09/2024	02/13/2025	Yogesh Patel	None	None	Ankita Jodhani 09/10/2024

FROM 0.25000ml of P12972 + 0.25000ml of P13017 + 2.50000ml of P13278 + 22.00000ml of E3789 = Final Quantity: 25.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
783	50 PPM Aliphatic HC STD	PP23646	09/09/2024	02/13/2025	Yogesh Patel	None	None	Ankita Jodhani 09/10/2024

FROM 0.50000ml of E3789 + 0.50000ml of PP23644 = Final Quantity: 1.000 ml

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Pest/Pcb STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
784	20 PPM Aliphatic HC STD	PP23647	09/09/2024	02/13/2025	Yogesh Patel	None	None	Ankita Jodhani 09/10/2024

FROM 0.80000ml of E3789 + 0.20000ml of PP23644 = Final Quantity: 1.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
785	10 PPM Aliphatic HC STD	PP23648	09/09/2024	02/13/2025	Yogesh Patel	None	None	Ankita Jodhani 09/10/2024

FROM 0.90000ml of E3789 + 0.10000ml of PP23644 = Final Quantity: 1.000 ml

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Pest/Pcb STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
786	5 PPM Aliphatic HC STD	PP23649	09/09/2024	02/13/2025	Yogesh Patel	None	None	Ankita Jodhani 09/10/2024

FROM 0.90000ml of E3789 + 0.10000ml of PP23646 = Final Quantity: 1.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
2901	20 PPM Aliphaitic HC STD ICV (Absolute)	PP23650	09/09/2024	02/13/2025	Yogesh Patel	None	None	Ankita Jodhani 09/10/2024

FROM 0.80000ml of E3789 + 0.20000ml of PP23645 = Final Quantity: 1.000 ml

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Pest/Pcb STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1339	100 PPM NJEPH Surrogate Spike	PP23706	09/26/2024	02/13/2025	Yogesh Patel	None	None	Ankita Jodhani 10/01/2024

FROM 1.25000ml of P13018 + 1.25000ml of P13019 + 1.25000ml of P13020 + 1.25000ml of P13022 + 1.25000ml of P13044 + 1.25000ml of P13045 + 1.25000ml of P13047 + 1.25000ml of P13048 + 490.00000ml of E3788 = Final Quantity: 500.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1330	100 PPM NJEPH Spike Solution	PP23712	09/30/2024	03/30/2025	Yogesh Patel	None	None	Ankita Jodhani 10/01/2024

FROM 5.00000ml of P13094 + 5.00000ml of P13096 + 5.00000ml of P13424 + 5.00000ml of P13430 + 5.00000ml of P13431 + 5.00000ml of P13432 + 5.00000ml of P13433 + 5.00000ml of P13434 + 5.00000ml of P13435 + 5.00000ml of P13436 + 5.00000ml of P13442 + 5.00000ml of P13444 + 5.00000ml of P13447 + 5.00000ml of P13448 + 5.00000ml of P13451 + 5.00000ml of P13452 + 5.00000ml of P13453 + 5.00000ml of P13454 + 5.00000ml of P13455 + 5.00000ml of P13456 = Final Quantity: 100.000 ml

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-3382-05 / Sand, Purified (cs/4x2.5kg)	0000243821	12/31/2024	04/30/2020 / RAJESH	04/28/2020 / RAJESH	E2865

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	PC19631-100 / SODIUM SULFATE, ANHYDROUS, PEST GRADE, 1	313201	01/03/2025	01/03/2024 / Rajesh	07/20/2023 / Rajesh	E3551

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	24C0162011	11/16/2024	05/16/2024 / Rajesh	04/26/2024 / Rajesh	E3743

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
phenomenex	SI500025-30 / Cleanert SPE Silica, 5000 mg/25 ml	Z0513CK1	03/04/2025	09/04/2024 / Rajesh	04/03/2024 / Rajesh	E3757

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	24E2462004	01/08/2025	07/08/2024 / Rajesh	06/21/2024 / Rajesh	E3768

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9254-03 / Acetone, Ultra Resi (cs/4x4L)	23H1462005	04/23/2025	08/13/2024 / Rajesh	08/13/2024 / Rajesh	E3788

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9262-03 / Hexane, Ultra-Resi (cs/4x4L)	24C1862008	02/13/2025	08/13/2024 / Rajesh	08/13/2024 / Rajesh	E3789

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	9005-05 / Acetone Ultra (cs/4x4L)	24E0761004	03/11/2025	09/12/2024 / Rajesh	09/11/2024 / Rajesh	E3793

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	24G2362009	03/17/2025	09/17/2024 / Rajesh	09/03/2024 / Rajesh	E3794

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9262-03 / Hexane, Ultra-Resi (cs/4x4L)	24G1962003	04/15/2025	10/15/2024 / Rajesh	10/09/2024 / Rajesh	E3819

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30541 / Custom NJEPH Aromatics Calibration Standard	A0165529	11/21/2024	05/21/2024 / yogesh	01/26/2021 / dhaval	P10259

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95709 / NJ EPH Aromatic Hydrocarbons, 2000 PPM	060420	07/08/2024	01/08/2024 / yogesh	10/29/2021 / Abdul	P11137

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30540 / Custom NJEPH Aliphatics Calibration Standard	A0190424	03/09/2025	09/09/2024 / yogesh	03/16/2023 / Yogesh	P12362

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31098 / 1-Chlorooctadecane Standard	A0204989	03/09/2025	09/09/2024 / yogesh	12/20/2023 / Yogesh	P12972

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31097 / o-Terphenyl Standard	A0204177	11/21/2024	05/21/2024 / yogesh	12/21/2023 / Yogesh	P13004

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31097 / o-Terphenyl Standard	A0204177	11/21/2024	05/21/2024 / yogesh	12/21/2023 / Yogesh	P13005

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31097 / o-Terphenyl Standard	A0204177	03/09/2025	09/09/2024 / yogesh	12/21/2023 / Yogesh	P13017

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31097 / o-Terphenyl Standard	A0204177	03/26/2025	09/26/2024 / yogesh	12/21/2023 / Yogesh	P13018

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31097 / o-Terphenyl Standard	A0204177	03/26/2025	09/26/2024 / yogesh	12/21/2023 / Yogesh	P13019

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31097 / o-Terphenyl Standard	A0204177	03/26/2025	09/26/2024 / yogesh	12/21/2023 / Yogesh	P13020

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31097 / o-Terphenyl Standard	A0204177	03/26/2025	09/26/2024 / yogesh	12/21/2023 / Yogesh	P13022

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31098 / 1-Chlorooctadecane Standard	A0200707	03/26/2025	09/26/2024 / yogesh	12/26/2023 / Yogesh	P13044

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31098 / 1-Chlorooctadecane Standard	A0200707	03/26/2025	09/26/2024 / yogesh	12/26/2023 / Yogesh	P13045

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31098 / 1-Chlorooctadecane Standard	A0200707	03/26/2025	09/26/2024 / yogesh	12/26/2023 / Yogesh	P13047

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Fax : 908 789 8922

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31098 / 1-Chlorooctadecane Standard	A0200707	03/26/2025	09/26/2024 / yogesh	12/26/2023 / Yogesh	P13048

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30542 / Custom NJEPH Aliphatics Matrix Spike Mix	A0203911	03/30/2025	09/30/2024 / yogesh	01/12/2024 / Yogesh	P13094

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30542 / Custom NJEPH Aliphatics Matrix Spike Mix	A0203911	03/30/2025	09/30/2024 / yogesh	01/12/2024 / Yogesh	P13096

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31480 / MA Fractionation Surrogate Spike Mix	A0206496	11/21/2024	05/21/2024 / yogesh	02/20/2024 / yogesh	P13258

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31480 / MA Fractionation Surrogate Spike Mix	A0206496	11/21/2024	05/21/2024 / yogesh	02/20/2024 / yogesh	P13259

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95899 / NJ EPH Aliphatic n-Hydrocarbons-Revised, 1000 PPM	040524	03/09/2025	09/09/2024 / yogesh	04/11/2024 / yogesh	P13278

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Fax : 908 789 8922

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30542 / Custom NJEPH Aliphatics Matrix Spike Mix	A0207239	03/30/2025	09/30/2024 / yogesh	07/16/2024 / Yogesh	P13424

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30542 / Custom NJEPH Aliphatics Matrix Spike Mix	A0211112	03/30/2025	09/30/2024 / yogesh	07/16/2024 / Yogesh	P13430

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30542 / Custom NJEPH Aliphatics Matrix Spike Mix	A0211112	03/30/2025	09/30/2024 / yogesh	07/16/2024 / Yogesh	P13431

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30542 / Custom NJEPH Aliphatics Matrix Spike Mix	A0211112	03/30/2025	09/30/2024 / yogesh	07/16/2024 / Yogesh	P13432

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30542 / Custom NJEPH Aliphatics Matrix Spike Mix	A0211112	03/30/2025	09/30/2024 / yogesh	07/16/2024 / Yogesh	P13433

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30542 / Custom NJEPH Aliphatics Matrix Spike Mix	A0211112	03/30/2025	09/30/2024 / yogesh	07/16/2024 / Yogesh	P13434

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Fax : 908 789 8922

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30542 / Custom NJEPH Aliphatics Matrix Spike Mix	A0211112	03/30/2025	09/30/2024 / yogesh	07/16/2024 / Yogesh	P13435

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30542 / Custom NJEPH Aliphatics Matrix Spike Mix	A0211112	03/30/2025	09/30/2024 / yogesh	07/16/2024 / Yogesh	P13436

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30543 / Custom NJEPH Aromatics Matrix Spike Mix	A0211254	03/30/2025	09/30/2024 / yogesh	07/16/2024 / Yogesh	P13442

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30543 / Custom NJEPH Aromatics Matrix Spike Mix	A0211254	03/30/2025	09/30/2024 / yogesh	07/16/2024 / Yogesh	P13444

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30543 / Custom NJEPH Aromatics Matrix Spike Mix	A0211254	03/30/2025	09/30/2024 / yogesh	07/16/2024 / Yogesh	P13447

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30543 / Custom NJEPH Aromatics Matrix Spike Mix	A0211254	03/30/2025	09/30/2024 / yogesh	07/16/2024 / Yogesh	P13448

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Fax : 908 789 8922

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30543 / Custom NJEPH Aromatics Matrix Spike Mix	A0211254	03/30/2025	09/30/2024 / yogesh	07/16/2024 / Yogesh	P13451

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30543 / Custom NJEPH Aromatics Matrix Spike Mix	A0211254	03/30/2025	09/30/2024 / yogesh	07/16/2024 / Yogesh	P13452

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30543 / Custom NJEPH Aromatics Matrix Spike Mix	A0207019	03/30/2025	09/30/2024 / yogesh	07/16/2024 / Yogesh	P13453

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30543 / Custom NJEPH Aromatics Matrix Spike Mix	A0207019	03/30/2025	09/30/2024 / yogesh	07/16/2024 / Yogesh	P13454

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30543 / Custom NJEPH Aromatics Matrix Spike Mix	A0207019	03/30/2025	09/30/2024 / yogesh	07/16/2024 / Yogesh	P13455

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30543 / Custom NJEPH Aromatics Matrix Spike Mix	A0207019	03/30/2025	09/30/2024 / yogesh	07/16/2024 / Yogesh	P13456

RESTEK®
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

DD
06/17/2021

Catalog No. : 30541 **Lot No.:** A0172403

Description : NJEPH Aromatics Calibration Standard

NJEPH Aromatics Calibration Standard 2,000µg/mL, Methylene Chloride, 1mL/ampul

P10758 to P10762 -(5)

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2027 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	1,2,3-Trimethylbenzene **CAS #** 526-73-8 (Lot 8776.10-36) **Purity** 98%	2,010.0 µg/mL	+/- 11.7957 µg/mL +/- 90.5449 µg/mL +/- 100.4678 µg/mL	Gravimetric Unstressed Stressed
2	Naphthalene **CAS #** 91-20-3 (Lot MKBZ8680V) **Purity** 99%	2,006.0 µg/mL	+/- 11.7723 µg/mL +/- 90.3656 µg/mL +/- 100.2689 µg/mL	Gravimetric Unstressed Stressed
3	2-Methylnaphthalene **CAS #** 91-57-6 (Lot STBG8884) **Purity** 99%	2,008.0 µg/mL	+/- 11.7841 µg/mL +/- 90.4557 µg/mL +/- 100.3688 µg/mL	Gravimetric Unstressed Stressed
4	Acenaphthylene **CAS #** 208-96-8 (Lot N19U) **Purity** 95%	2,002.6 µg/mL	+/- 11.7524 µg/mL +/- 90.2125 µg/mL +/- 100.0989 µg/mL	Gravimetric Unstressed Stressed
5	Acenaphthene **CAS #** 83-32-9 (Lot MKCN0610) **Purity** 99%	2,000.0 µg/mL	+/- 11.7371 µg/mL +/- 90.0953 µg/mL +/- 99.9689 µg/mL	Gravimetric Unstressed Stressed
6	Fluorene **CAS #** 86-73-7 (Lot 10217947) **Purity** 99%	2,016.0 µg/mL	+/- 11.8310 µg/mL +/- 90.8161 µg/mL +/- 100.7687 µg/mL	Gravimetric Unstressed Stressed
7	Phenanthrene **CAS #** 85-01-8 (Lot MKCL7390) **Purity** 99%	2,012.0 µg/mL	+/- 11.8075 µg/mL +/- 90.6359 µg/mL +/- 100.5688 µg/mL	Gravimetric Unstressed Stressed

8	Anthracene		2,002.0	µg/mL	+/-	11.7489	µg/mL	Gravimetric
	CAS # 120-12-7	(Lot MKCM0015)			+/-	90.1854	µg/mL	Unstressed
	Purity 99%				+/-	100.0689	µg/mL	Stressed
9	Fluoranthene		2,003.0	µg/mL	+/-	11.7547	µg/mL	Gravimetric
	CAS # 206-44-0	(Lot MKCF7378)			+/-	90.2305	µg/mL	Unstressed
	Purity 99%				+/-	100.1189	µg/mL	Stressed
10	Pyrene		2,011.0	µg/mL	+/-	11.8017	µg/mL	Gravimetric
	CAS # 129-00-0	(Lot BCCB9880)			+/-	90.5909	µg/mL	Unstressed
	Purity 99%				+/-	100.5188	µg/mL	Stressed
11	Benz(a)anthracene		2,011.0	µg/mL	+/-	11.8014	µg/mL	Gravimetric
	CAS # 56-55-3	(Lot P0022018-0505)			+/-	90.5890	µg/mL	Unstressed
	Purity 98%				+/-	100.5168	µg/mL	Stressed
12	Chrysene		2,000.0	µg/mL	+/-	11.7371	µg/mL	Gravimetric
	CAS # 218-01-9	(Lot STBJ8094)			+/-	90.0953	µg/mL	Unstressed
	Purity 99%				+/-	99.9689	µg/mL	Stressed
13	Benzo(b)fluoranthene		2,006.0	µg/mL	+/-	11.7721	µg/mL	Gravimetric
	CAS # 205-99-2	(Lot 012012B)			+/-	90.3638	µg/mL	Unstressed
	Purity 97%				+/-	100.2669	µg/mL	Stressed
14	Benzo(k)fluoranthene		2,010.0	µg/mL	+/-	11.7958	µg/mL	Gravimetric
	CAS # 207-08-9	(Lot 012019K)			+/-	90.5458	µg/mL	Unstressed
	Purity 99%				+/-	100.4688	µg/mL	Stressed
15	Benzo(a)pyrene		2,004.0	µg/mL	+/-	11.7606	µg/mL	Gravimetric
	CAS # 50-32-8	(Lot RP210113)			+/-	90.2755	µg/mL	Unstressed
	Purity 99%				+/-	100.1689	µg/mL	Stressed
16	Indeno(1,2,3-cd)pyrene		2,010.0	µg/mL	+/-	11.7958	µg/mL	Gravimetric
	CAS # 193-39-5	(Lot 1-RAK-33-4)			+/-	90.5458	µg/mL	Unstressed
	Purity 99%				+/-	100.4688	µg/mL	Stressed
17	Dibenz(a,h)anthracene		2,017.0	µg/mL	+/-	11.8369	µg/mL	Gravimetric
	CAS # 53-70-3	(Lot ER032211-01)			+/-	90.8611	µg/mL	Unstressed
	Purity 99%				+/-	100.8187	µg/mL	Stressed
18	Benzo(g,h,i)perylene		2,003.0	µg/mL	+/-	11.7547	µg/mL	Gravimetric
	CAS # 191-24-2	(Lot 8GFYJ)			+/-	90.2305	µg/mL	Unstressed
	Purity 99%				+/-	100.1189	µg/mL	Stressed

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

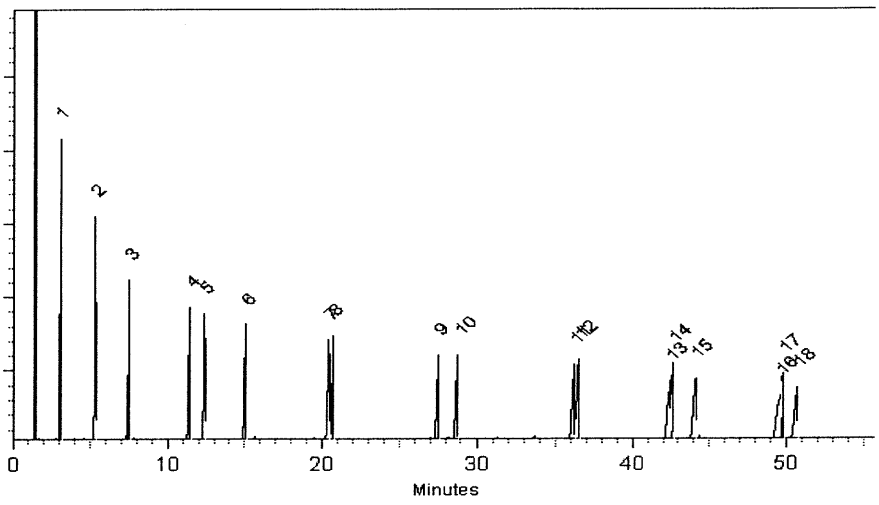
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
100°C (hold 1 min.) to 330°C
@ 4°C/min. (hold 5 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Lane Kibe - Mix Technician

Date Mixed: 14-May-2021 **Balance:** B345965662

Alexis Shelow - Operations Tech I

Date Passed: 18-May-2021

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.

Sand
Purified
Washed and Ignited

avantor™ | J.T.Baker®

Material No.: 3382-05
Batch No.: 0000243821
Manufactured Date: 2018/04/09
Retest Date: 2025/04/07
Revision No: 1

Certificate of Analysis

Test	Specification	Result
Substances Soluble in HCl	<= 0.16 %	0.01

For Laboratory, Research or Manufacturing Use
Meets Reagent Specifications for testing USP/NF monographs

Country of Origin: US
Packaging Site: Paris Mfg Ctr & DC

E 2865

James T Ethier
Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700

PRODUCTOS QUIMICOS MONTERREY, S.A. DE C.V.

MIRADOR 201, COL. MIRADOR
MONTERREY, N.L. MEXICO
CP 64070
TEL +52 81 13 52 57 57
www.pqm.com.mx

CERTIFICATE OF ANALYSIS

PRODUCT :	SODIUM SULFATE CRYSTALS ANHYDROUS		
QUALITY :	ACS (CODE RMB3375)	FORMULA :	Na_2SO_4
SPECIFICATION NUMBER :	6399	RELEASE DATE:	ABR/21/2023
LOT NUMBER :	313201		

TEST	SPECIFICATIONS	LOT VALUES
Assay (Na_2SO_4)	Min. 99.0%	99.7 %
pH of a 5% solution at 25°C	5.2 - 9.2	6.1
Insoluble matter	Max. 0.01%	0.005 %
Loss on ignition	Max. 0.5%	0.1 %
Chloride (Cl)	Max. 0.001%	<0.001 %
Nitrogen compounds (as N)	Max. 5 ppm	<5 ppm
Phosphate (PO_4)	Max. 0.001%	<0.001 %
Heavy metals (as Pb)	Max. 5 ppm	<5 ppm
Iron (Fe)	Max. 0.001%	<0.001 %
Calcium (Ca)	Max. 0.01%	0.002 %
Magnesium (Mg)	Max. 0.005%	0.001 %
Potassium (K)	Max. 0.008%	0.003 %
Extraction-concentration suitability	Passes test	Passes test
Appearance	Passes test	Passes test
Identification	Passes test	Passes test
Solubility and foreing matter	Passes test	Passes test
Retained on US Standard No. 10 sieve	Max. 1%	0.1 %
Retained on US Standard No. 60 sieve	Min. 94%	97.3 %
Through US Standard No. 60 sieve	Max. 5%	2.5 %
Through US Standard No. 100 sieve	Max. 10%	0.1 %

COMMENTS

QC: PhC Irma Belmares

If you need further details, please call our factory or contact our local distributor.

RG-02-01, Ed. 3

Recd. by RI on 7/24/23 E3551

ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)

avantor™ J

Material No.: 92
Batch No.: 24C
Manufactured Date: 2024-
Expiration Date: 2025
Revision

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	< 1
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	≤ 10	2
Assay (CH_2Cl_2) (by GC, exclusive of preservative, corrected for water)	≥ 99.8 %	100.0 %
Color (APHA)	≤ 10	10
Residue after Evaporation	≤ 1.0 ppm	0.2 ppm
Titrable Acid (µeq/g)	≤ 0.3	< 0.1
Chloride (Cl)	≤ 10 ppm	< 5 ppm
Water (by KF, coulometric)	≤ 0.02 %	< 0.01 %

For Laboratory,Research,or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC
Manufacturer source batch: MG24A04224

E 3743

Ken Koehnlein
Sr. Manager, Quality Assurance

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone 610.386.1700
Page 1 of 1


Cleanert EPH
5g/25ml 15/pkg
固相萃取产品
LOT#:Z0513CK1
MFG#:F04005
Made in China
CAT# SI500025-30
Agela Technologies
E3757

PO: PO1-8886 PRODUCT CODE: SHIP DATE: 6/21/2024

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)

avantor™ | J.T.Baker

Material No.: 9266-A4
Batch No.: 24E2462004
Manufactured Date: 2024-04-10
Expiration Date: 2025-07-10
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	3
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	≤ 10	3
Assay (CH_2Cl_2) (by GC, exclusive of preservative, corrected for water)	≥ 99.8 %	100.0 %
Color (APHA)	≤ 10	5
Residue after Evaporation	≤ 1.0 ppm	0.1 ppm
Titrable Acid (µeq/g)	≤ 0.3	< 0.1
Chloride (Cl)	≤ 10 ppm	5 ppm
Water (by KF, coulometric)	≤ 0.02 %	< 0.01 %

For Laboratory,Research,or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC
Manufacturer source batch: MG24D10725

E 3768

JCroak
Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone 610.386.1700

Acetone
BAKER RESI-ANALYZED® Reagent
For Organic Residue Analysis

avantor™ | J.T.Baker®

Material No.: 9254-03
Batch No.: 23H1462005
Manufactured Date: 2023-07-26
Expiration Date: 2026-07-25
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay ($(CH_3)_2CO$) (by GC, corrected for water)	≥ 99.4 %	99.7 %
Color (APHA)	≤ 10	5
Residue after Evaporation	≤ 1.0 ppm	0.3 ppm
Substances Reducing Permanganate	Passes Test	Passes Test
Titrable Acid (µeq/g)	≤ 0.3	0.1
Titrable Base (µeq/g)	≤ 0.6	< 0.1
Water (H_2O)	≤ 0.5 %	0.3 %
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	< 1
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	≤ 10	1

For Laboratory,Research,or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Recd. by RP on 8/13/24

E 3788

Ken Koehnlein
Sr. Manager, Quality Assurance

Hexanes (95% n-hexane)
BAKER RESI-ANALYZED® Reagent
For Organic Residue Analysis

avantor | J.T.

Material No.: 9
Batch No.: 24C186
Manufactured Date: 2024
Expiration Date: 2025-0
Revisio

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	< 1
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	≤ 10	1
ECD-Sensitive Impurities (as Ethylene Dibromide) – Single Impurity Peak (ng/mL)	≤ 5	1
Assay (Total Saturated C_6 Isomers) (by GC, corrected for water)	≥ 99.5 %	99.7 %
Assay (as n-Hexane) (by GC, corrected for water)	≥ 95 %	98 %
Color (APHA)	≤ 10	5
Residue after Evaporation	≤ 1.0 ppm	0.4 ppm
Substances Darkened by H_2SO_4	Passes Test	Passes Test
Water (by KF, coulometric)	≤ 0.05 %	< 0.01 %

For Laboratory,Research,or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Recd. by RP on 8/13/24

E3789

JCroak

Jamie Croak
Director Quality Operations, Bioscience Product

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone 610.386.1700

Acetone
CMOS

avantor™ | J.T.Baker®

Material No.: 9005-05
Batch No.: 24E0761004
Manufactured Date: 2024-05-02
Retest Date: 2029-05-01
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay ($(CH_3)_2CO$) (by GC, corrected for water)	≥ 99.5 %	99.8 %
Color (APHA)	≤ 10	< 5
Residue after Evaporation	≤ 5 ppm	< 1 ppm
Titrable Acid (µeq/g)	≤ 0.3	0.1
Titrable Base (µeq/g)	≤ 0.5	0.1
Water (H_2O)	≤ 0.5 %	0.1 %
Solubility in H_2O	Passes Test	Passes Test
Chloride (Cl)	≤ 0.2 ppm	< 0.2 ppm
Phosphate (PO_4)	≤ 0.05 ppm	< 0.05 ppm
Trace Impurities - Aluminum (Al)	≤ 50.0 ppb	< 5.0 ppb
Arsenic and Antimony (as As)	≤ 5.0 ppb	< 5.0 ppb
Trace Impurities - Barium (Ba)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities - Beryllium (Be)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Bismuth (Bi)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities - Boron (B)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities - Cadmium (Cd)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Calcium (Ca)	≤ 25.0 ppb	3.6 ppb
Trace Impurities - Chromium (Cr)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Cobalt (Co)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Copper (Cu)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Gallium (Ga)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Germanium (Ge)	≤ 10.0 ppb	< 10.0 ppb
Trace Impurities - Gold (Au)	≤ 20 ppb	< 5 ppb
Trace Impurities - Iron (Fe)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities - Lead (Pb)	≤ 10.0 ppb	< 10.0 ppb
Trace Impurities - Lithium (Li)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Magnesium (Mg)	≤ 20 ppb	< 1 ppb
Trace Impurities - Manganese (Mn)	≤ 10.0 ppb	< 1.0 ppb

>>> Continued on page 2 >>>

Recd. by RP on 9/11/24

E3793

Acetone
CMOS

avantor™ | J.T.Baker®

Material No.: 9005-05
Batch No.: 24E0761004

Test	Specification	Result
Trace Impurities – Molybdenum (Mo)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities – Nickel (Ni)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities – Niobium (Nb)	≤ 50.0 ppb	< 1.0 ppb
Trace Impurities – Potassium (K)	≤ 10.0 ppb	< 10.0 ppb
Trace Impurities – Silicon (Si)	≤ 50 ppb	< 10 ppb
Trace Impurities – Silver (Ag)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Sodium (Na)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Strontium (Sr)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Tantalum (Ta)	≤ 50.0 ppb	< 5.0 ppb
Trace Impurities – Thallium (Tl)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities – Tin (Sn)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities – Titanium (Ti)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Vanadium (V)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Zinc (Zn)	≤ 20.0 ppb	7.9 ppb
Trace Impurities – Zirconium (Zr)	≤ 10.0 ppb	< 1.0 ppb
Particle Count – 0.5 µm and greater (Rion KS42AF)	≤ 100 par/ml	8 par/ml
Particle Count – 1.0 µm and greater (Rion KS42AF)	≤ 8 par/ml	2 par/ml

>>> Continued on page 3 >>>

Acetone
CMOS

avantor™ | J.T.Baker®

Material No.: 9005-05
Batch No.: 24E0761004

Test	Specification	Result

For Microelectronic Use

Country of Origin: USA
Packaging Site: Paris Mfg Ctr & DC

Michelle Bales
Sr. Manager, Quality Assurance

PO: PO2-329 PRODUCT CODE: SHIP DATE: 9/30/2024

n-Hexane 95%
ULTRA RESI-ANALYZED
For Organic Residue Analysis

avantor™ | J.T.Baker®

Material No.: 9262-03
Batch No.: 24G1962003
Manufactured Date: 2024-05-23
Expiration Date: 2025-08-22
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	3
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	≤ 10	1
ECD-Sensitive Impurities (as Ethylene Dibromide) - Single Impurity Peak (ng/mL)	≤ 5	1
Assay (Total Saturated C_6 Isomers) (by GC, corrected for water)	≥ 99.5 %	99.7 %
Assay (as n-Hexane) (by GC, corrected for water)	≥ 95 %	98 %
Color (APHA)	≤ 10	5
Residue after Evaporation	≤ 1.0 ppm	0.1 ppm
Substances Darkened by H_2SO_4	Passes Test	Passes Test
Water (by KF, coulometric)	≤ 0.05 %	< 0.01 %

For Laboratory,Research,or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Recd. by RP on 10/09/24

E 3819

Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone 610.386.1700

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

Part Number: 95709
Lot Number: 060420
Description: NJ EPH Aromatic Hydrocarbons
18 components
Expiration Date: 060425
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 2000
NIST Test ID#: 23060

Solvent(s): **Lot#**
Methylene chloride 104929

5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 500.0 0.058 Flask Uncertainty

Formulated By: Benson Chan	060420 DATE
Reviewed By: Pedro L. Rentas	060420 DATE

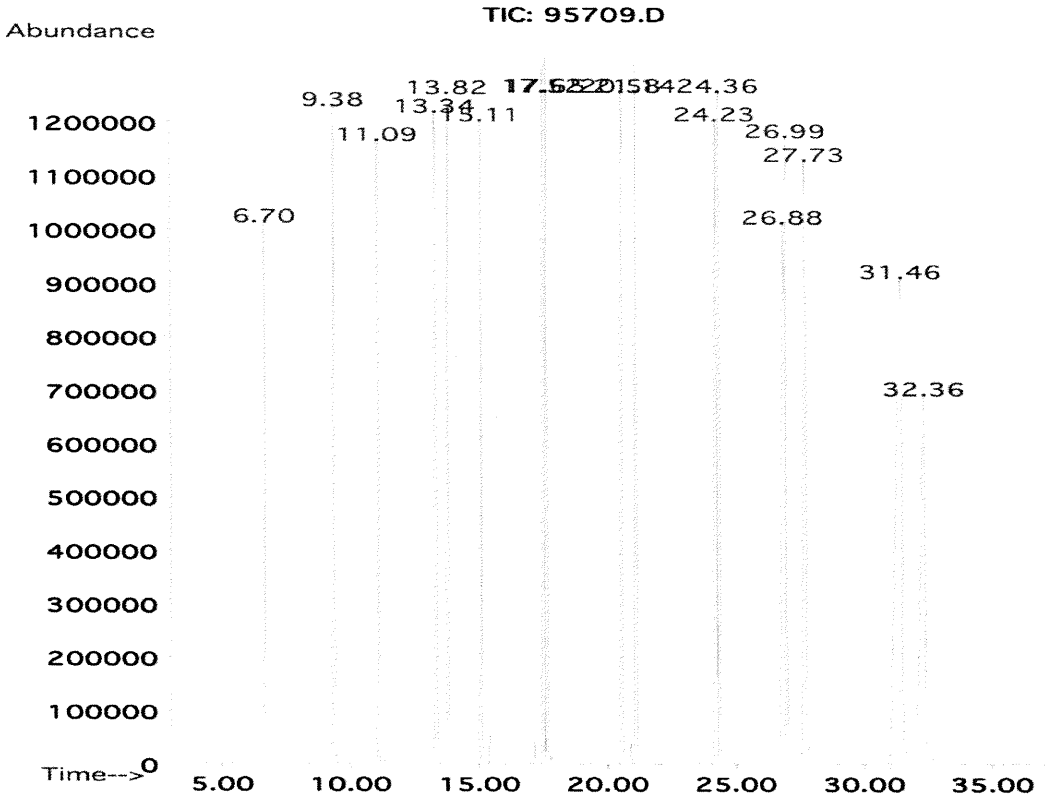
Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. Acenaphthene	1	MKBJ4871V	2000	99	0.2	1.01003	1.01010	2000.1	8.1	83-32-9	N/A	ipr-rat 600mg/kg
2. Acenaphthylene	3	012014	2000	98	0.2	1.02033	1.02053	2000.4	8.2	208-96-8	N/A	N/A
3. Anthracene	13	A0210580	2000	99	0.2	1.01003	1.01009	2000.1	8.1	120-12-7	0.2mg/m3 (8H)	ipr-mus 430mg/kg
4. Benzo(a)anthracene	28	JY2TD-JT	2000	98	0.2	1.02033	1.02051	2000.3	8.2	56-55-3	N/A	N/A
5. Benzo(a)pyrene	30	012012	2000	99.5	0.2	1.00495	1.00511	2000.3	8.1	50-32-8	0.2mg/m3 (8H)	scu-rat 50mg/kg
6. Benzo(b)fluoranthene	31	012012b	2000	99	0.2	1.01003	1.01012	2000.2	8.1	205-99-2	N/A	N/A
7. Benzo(k)fluoranthene	33	012012k	2000	99	0.2	1.01003	1.01018	2000.3	8.1	207-08-9	N/A	N/A
8. Benzo(g,h,i)perylene	32	012018	2000	99	0.2	1.01003	1.01019	2000.3	8.1	191-24-2	N/A	N/A
9. Chrysene	91	012015	2000	98	0.2	1.02033	1.02040	2000.1	8.2	218-01-9	0.2mg/m3	N/A
10. Dibenzo(a,h)anthracene	112	012011	2000	98	0.2	1.02033	1.02050	2000.3	8.2	53-70-3	0.2mg/m3	N/A
11. Fluoranthene	183	04221PV	2000	98	0.2	1.02033	1.02050	2000.3	8.2	206-44-0	N/A	orl-rat 2000mg/kg
12. Fluorene	184	07211MV	2000	98	0.2	1.02033	1.02047	2000.3	8.2	86-73-7	N/A	ipr-mus 2 g/kg
13. Indeno(1,2,3-cd)pyrene	202	012014	2000	99.9	0.2	1.00093	1.00119	2000.5	8.0	193-39-5	N/A	N/A
14. 2-Methylnaphthalene	214	MKBF3783V	2000	97	0.2	1.03085	1.03090	2000.1	8.3	91-57-6	N/A	orl-rat 1630mg/kg
15. Naphthalene	222	MKBZ8680V	2000	100	0.2	0.99993	0.99999	2000.1	8.0	91-20-3	10 ppm (50mg/m3/8H)	orl-rat 490mg/kg
16. Phenanthrene	248	03410PV	2000	99	0.2	1.01003	1.01030	2000.5	8.1	85-01-8	0.2mg/m3/8H	orl-mus 700mg/kg
17. Pyrene	259	010197	2000	98	0.2	1.02033	1.02042	2000.2	8.2	129-00-0	0.2mg/m3/8H	orl-rat 2700mg/kg
18. 1,2,3-Trimethylbenzene	944	031097	2000	99	0.2	1.01003	1.01025	2000.4	8.1	526-73-8	N/A	N/A

P11137
&
P11141

AR 11/02/21

- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Method GC8MSD-2.M: Column:SPB-5 (30m X 0.25mm ID X 0.25µm film thickness) Temp 1 = 50°C (1min.), Temp 2 = 300°C (14min.), Rate = 10°C/min., Injector B= 250°C, Detector B = 275°C, Split Ratio = 100:1, Scan Rate = 2. Analysis performed by: Melissa Stonier.



Peak No.	Name	MSD RT (min.)
1	1,2,3-Trimethylbenzene	6.70
2	Naphthalene	9.38
3	2-Methylnaphthalene	11.09
4	Acenaphthylene	13.34
5	Acenaphthene	13.82
6	Fluorene	15.11
7	Phenanthrene	17.52
8	Anthracene	17.65
9	Fluoranthene	20.58
10	Pyrene	21.14
11	Chrysene	24.23
12	Benzo(a)anthracene	24.36
13	Benzo(b)fluoranthene/Benzo(k)fluoranthene	26.98
14	Benzo(a)pyrene	27.73
15	Indeno(1,2,3-cd)pyrene/Dibenzo(a,h)anthracene	31.46
16	Benzo(g,h,i)perylene	32.36

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

P12361 ↓ P12370 Y.P. 03/16/23

Catalog No. : 30540 **Lot No.:** A0190424

Description : NJEPH Aliphatics Calibration Standard

Aliphatics Calibration Standard 2000µg/mL, Hexane/Carbon Disulfide (80:20), 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : November 30, 2029 **Storage:** 25°C nominal

Handling: Sonicate prior to use. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	n-Nonane (C9) **CAS #** 111-84-2 (Lot SHBN5361) **Purity** 99%	2,014.0 µg/mL	+/- 11.8193 µg/mL +/- 50.0027 µg/mL +/- 59.9491 µg/mL	Gravimetric Unstressed Stressed
2	n-Decane (C10) **CAS #** 124-18-5 (Lot SHBN8619) **Purity** 99%	2,014.7 µg/mL	+/- 11.8232 µg/mL +/- 50.0193 µg/mL +/- 59.9689 µg/mL	Gravimetric Unstressed Stressed
3	Naphthalene **CAS #** 91-20-3 (Lot MKCH0219) **Purity** 99%	2,015.3 µg/mL	+/- 11.8271 µg/mL +/- 50.0358 µg/mL +/- 59.9888 µg/mL	Gravimetric Unstressed Stressed
4	n-Dodecane (C12) **CAS #** 112-40-3 (Lot SHBN7174) **Purity** 99%	2,008.0 µg/mL	+/- 11.7841 µg/mL +/- 49.8538 µg/mL +/- 59.7705 µg/mL	Gravimetric Unstressed Stressed
5	2-Methylnaphthalene **CAS #** 91-57-6 (Lot STBK0259) **Purity** 96%	2,007.0 µg/mL	+/- 11.7784 µg/mL +/- 49.8299 µg/mL +/- 59.7419 µg/mL	Gravimetric Unstressed Stressed
6	n-Tetradecane (C14) **CAS #** 629-59-4 (Lot STBK2282) **Purity** 99%	2,016.7 µg/mL	+/- 11.8349 µg/mL +/- 50.0689 µg/mL +/- 60.0284 µg/mL	Gravimetric Unstressed Stressed
7	n-Hexadecane (C16) **CAS #** 544-76-3 (Lot SHBM4146) **Purity** 98%	2,014.9 µg/mL	+/- 11.8244 µg/mL +/- 50.0246 µg/mL +/- 59.9753 µg/mL	Gravimetric Unstressed Stressed

8	n-Octadecane (C18) **CAS #** 593-45-3 **Purity** 97%	(Lot VZKOJ)	2,004.7	µg/mL	+/- 11.7645 +/- 49.7710 +/- 59.6712	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
9	n-Eicosane (C20) **CAS #** 112-95-8 **Purity** 99%	(Lot MKCF7888)	2,018.0	µg/mL	+/- 11.8428 +/- 50.1020 +/- 60.0681	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
10	n-Heneicosane (C21) **CAS #** 629-94-7 **Purity** 99%	(Lot MKCL3226)	2,000.7	µg/mL	+/- 11.7410 +/- 49.6717 +/- 59.5522	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
11	n-Docosane (C22) **CAS #** 629-97-0 **Purity** 99%	(Lot MKCL8918)	2,005.3	µg/mL	+/- 11.7684 +/- 49.7876 +/- 59.6911	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
12	n-Tetracosane (C24) **CAS #** 646-31-1 **Purity** 99%	(Lot MKCN2863)	2,018.0	µg/mL	+/- 11.8428 +/- 50.1020 +/- 60.0681	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
13	n-Hexacosane (C26) **CAS #** 630-01-3 **Purity** 99%	(Lot MKCD4540)	2,014.0	µg/mL	+/- 11.8193 +/- 50.0027 +/- 59.9491	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
14	n-Octacosane (C28) **CAS #** 630-02-4 **Purity** 99%	(Lot BCCG0084)	2,002.0	µg/mL	+/- 11.7489 +/- 49.7048 +/- 59.5919	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
15	n-Triacontane (C30) **CAS #** 638-68-6 **Purity** 97%	(Lot MKCQ9436)	2,011.1	µg/mL	+/- 11.8025 +/- 49.9316 +/- 59.8637	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
16	n-Dotriacontane (C32) **CAS #** 544-85-4 **Purity** 99%	(Lot BCBW0661)	2,012.0	µg/mL	+/- 11.8075 +/- 49.9531 +/- 59.8895	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
17	n-Tetratriacontane (C34) **CAS #** 14167-59-0 **Purity** 99%	(Lot OML4N)	2,006.7	µg/mL	+/- 11.7762 +/- 49.8207 +/- 59.7308	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
18	n-Hexatriacontane (C36) **CAS #** 630-06-8 **Purity** 99%	(Lot Z27H018)	2,017.3	µg/mL	+/- 11.8388 +/- 50.0855 +/- 60.0483	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
19	n-Octatriacontane (C38) **CAS #** 7194-85-6 **Purity** 96%	(Lot 0000145137)	2,017.3	µg/mL	+/- 11.8385 +/- 50.0842 +/- 60.0467	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
20	n-Tetracontane (C40) **CAS #** 4181-95-7 **Purity** 99%	(Lot BSBME)	2,008.7	µg/mL	+/- 11.7880 +/- 49.8703 +/- 59.7903	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

Solvent: Hexane/Carbon disulfide (80:20)
CAS # 110-54-3/75-15-0
Purity 99%

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

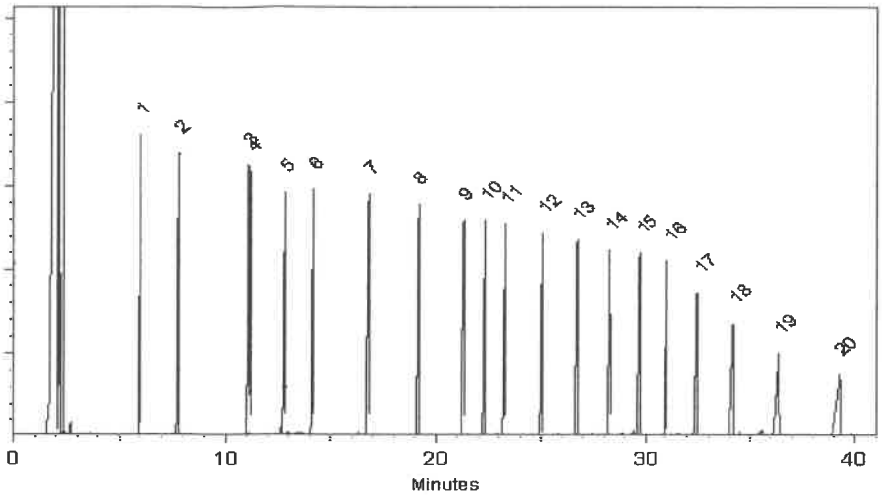
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Morgan Craighead - Mix Technician

Date Mixed: 10-Oct-2022 **Balance:** 1128360905

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 20-Oct-2022

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

P12960 & P12991 Y.P. 12/21/2023

Catalog No. : 31098 **Lot No.:** A0204989

Description : 1-Chlorooctadecane Standard

1-Chlorooctadecane Standard 10,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : January 31, 2031 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1-Chlorooctadecane	3386-33-2	14738400	99%	10,097.3 µg/mL	+/- 567.2675

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

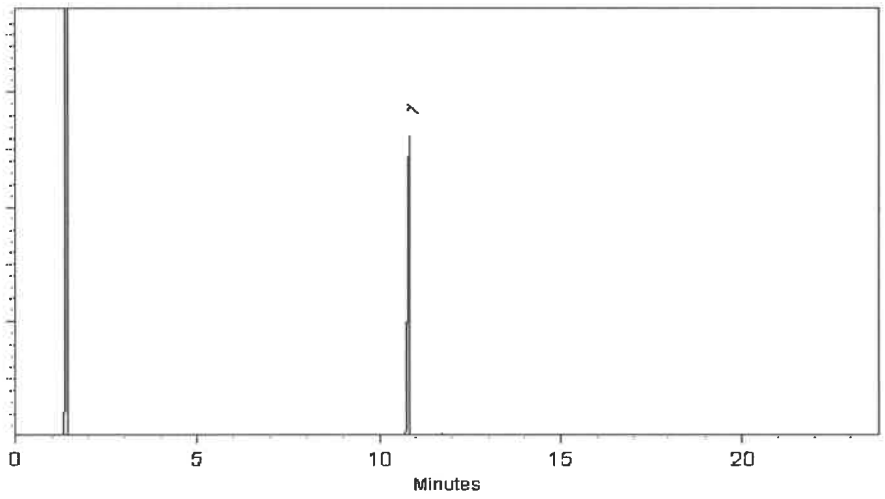
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
10 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Peter Robbins - Operations Technician I

Date Mixed: 02-Dec-2023 **Balance Serial #** B345965662

Christie Mills - Operations Lead Tech - ARM QC

Date Passed: 08-Dec-2023

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

Certificate of Analysis

chromatographic plus

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

P12992 → P13031 Y.B. 12/21/2023

Catalog No. : 31097 **Lot No.:** A0204177

Description : o-Terphenyl Standard

o-Terphenyl Standard 10,000 µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : June 30, 2027 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	o-Terphenyl	84-15-1	GKSSA	99%	10,000.5 µg/mL	+/- 450.4278

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

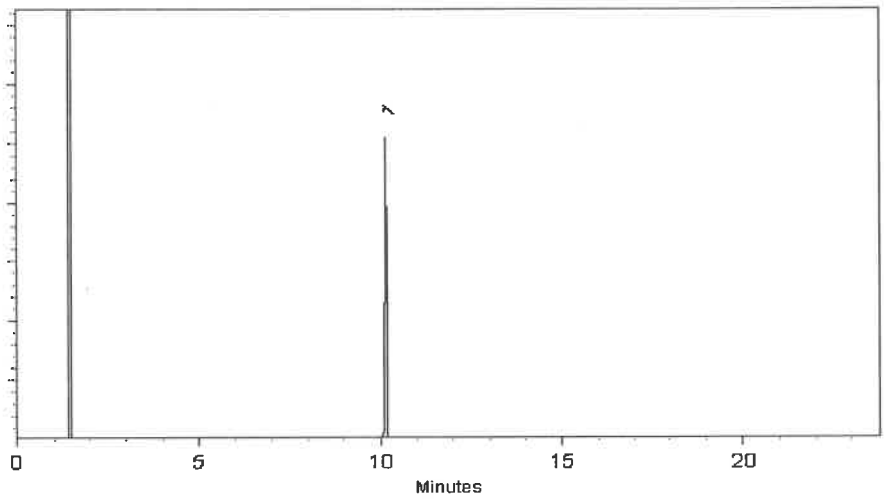
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
10 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Laith Clemente - Operations Technician I **Date Mixed:** 07-Nov-2023 **Balance Serial #** 1128360905

Dillan Murphy - Operations Technician I **Date Passed:** 09-Nov-2023

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

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P12992 ↓ P13031 } Y.B. 12/21/2023

Catalog No. : 31097 **Lot No.:** A0204177

Description : o-Terphenyl Standard

o-Terphenyl Standard 10,000 µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : June 30, 2027 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	o-Terphenyl	84-15-1	GKSSA	99%	10,000.5 µg/mL	+/- 450.4278

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

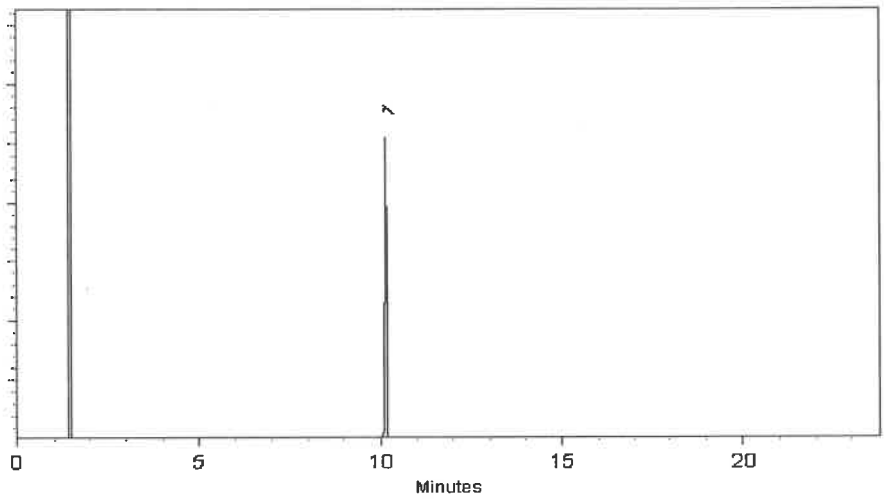
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
10 ml/min.

Inj. Vol
1µl



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Laith Clemente - Operations Technician I

Date Mixed: 07-Nov-2023 **Balance Serial #** 1128360905

Dillan Murphy - Operations Technician I

Date Passed: 09-Nov-2023

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
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- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

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Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

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P12992 ↓ P13031 } Y.B. 12/21/2023

Catalog No. : 31097 **Lot No.:** A0204177

Description : o-Terphenyl Standard

o-Terphenyl Standard 10,000 µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : June 30, 2027 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	o-Terphenyl	84-15-1	GKSSA	99%	10,000.5 µg/mL	+/- 450.4278

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

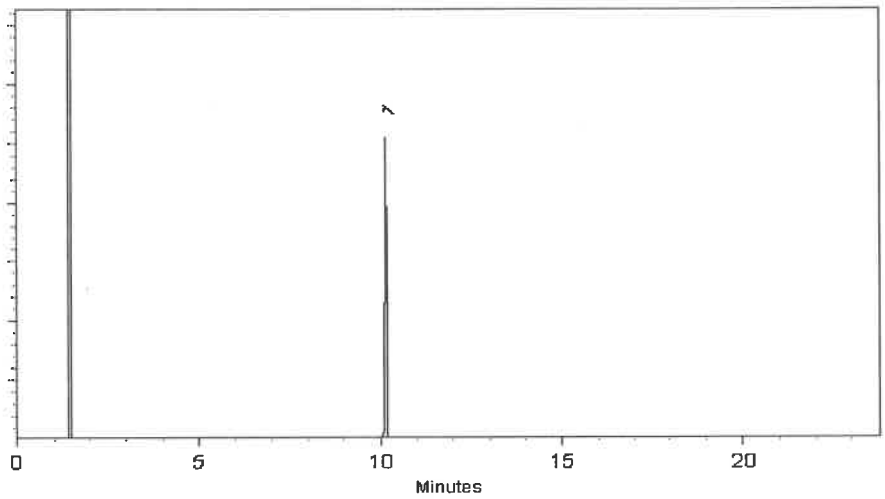
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
10 ml/min.

Inj. Vol
1µl



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Laith Clemente - Operations Technician I

Date Mixed: 07-Nov-2023 **Balance Serial #** 1128360905

Dillan Murphy - Operations Technician I

Date Passed: 09-Nov-2023

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

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- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

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Manufacturing Notes:

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P12992 ↓ P13031 } Y.P. 12/21/2023

Catalog No. : 31097 **Lot No.:** A0204177

Description : o-Terphenyl Standard

o-Terphenyl Standard 10,000 µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : June 30, 2027 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	o-Terphenyl	84-15-1	GKSSA	99%	10,000.5 µg/mL	+/- 450.4278

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

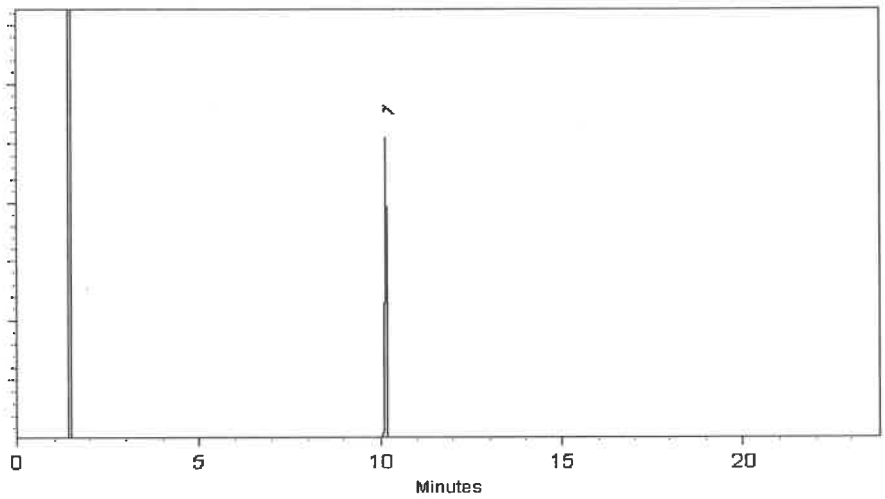
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
10 ml/min.

Inj. Vol
1µl



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Laith Clemente - Operations Technician I

Date Mixed: 07-Nov-2023 **Balance Serial #** 1128360905

Dillan Murphy - Operations Technician I

Date Passed: 09-Nov-2023

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

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Certified Uncertainty Value Notes:

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Manufacturing Notes:

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P12992 → P13031 Y.B. 12/21/2023

Catalog No. : 31097 **Lot No.:** A0204177

Description : o-Terphenyl Standard

o-Terphenyl Standard 10,000 µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : June 30, 2027 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	o-Terphenyl	84-15-1	GKSSA	99%	10,000.5 µg/mL	+/- 450.4278

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

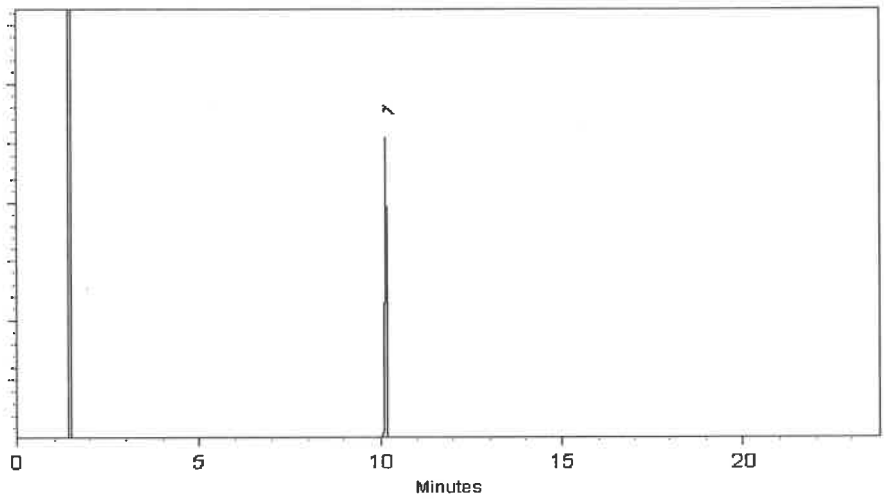
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
10 ml/min.

Inj. Vol
1µl



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Laith Clemente - Operations Technician I

Date Mixed: 07-Nov-2023 **Balance Serial #** 1128360905

Dillan Murphy - Operations Technician I

Date Passed: 09-Nov-2023

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

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Handling Notes:

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- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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P12992 ↓ P13031 } Y.B. 12/21/2023

Catalog No. : 31097 **Lot No.:** A0204177

Description : o-Terphenyl Standard

o-Terphenyl Standard 10,000 µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : June 30, 2027 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	o-Terphenyl	84-15-1	GKSSA	99%	10,000.5 µg/mL	+/- 450.4278

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

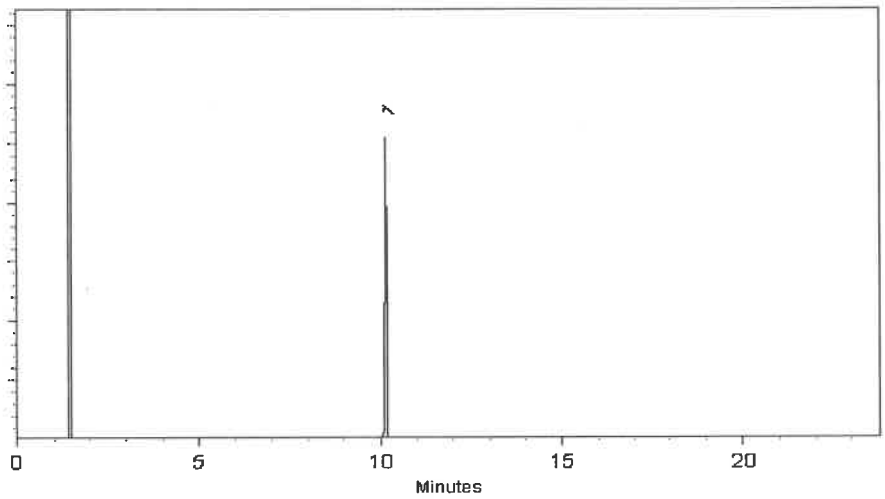
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
10 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Laith Clemente - Operations Technician I

Date Mixed: 07-Nov-2023 **Balance Serial #** 1128360905

Dillan Murphy - Operations Technician I

Date Passed: 09-Nov-2023

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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P12992 ↓ P13031 } Y.P. 12/21/2023

Catalog No. : 31097 **Lot No.:** A0204177

Description : o-Terphenyl Standard

o-Terphenyl Standard 10,000 µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : June 30, 2027 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	o-Terphenyl	84-15-1	GKSSA	99%	10,000.5 µg/mL	+/- 450.4278

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

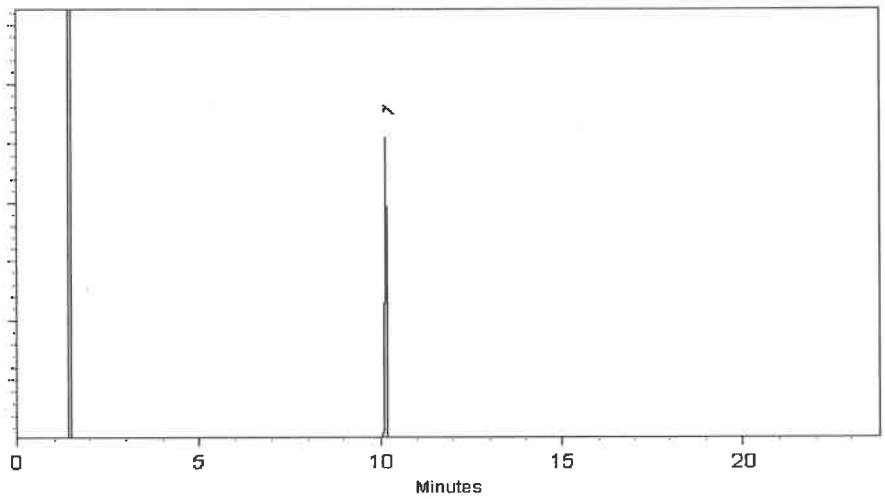
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
10 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Laith Clemente - Operations Technician I

Date Mixed: 07-Nov-2023 **Balance Serial #** 1128360905

Dillan Murphy - Operations Technician I

Date Passed: 09-Nov-2023

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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Catalog No. : 31098 **Lot No.:** A0200707

P130hh
↓
P13051
} Y.P. 12/26/23

Description : 1-Chlorooctadecane Standard

1-Chlorooctadecane Standard 10,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : September 30, 2030 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1-Chlorooctadecane	3386-33-2	E230426RSRB	99%	10,018.0 µg/mL	+/- 562.8106

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

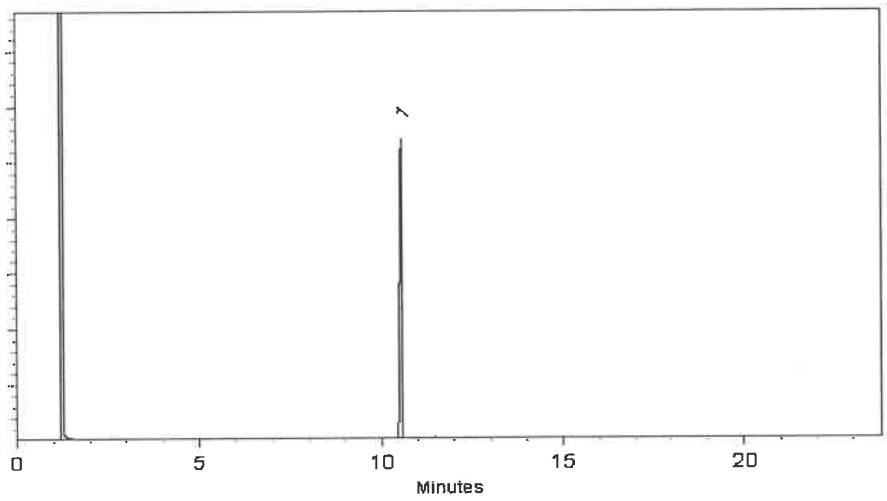
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
10 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Ashley Frantz - Quoting Technician

Date Mixed: 07-Aug-2023 **Balance Serial #** 1128360905

Dillan Murphy - Operations Technician I

Date Passed: 10-Aug-2023

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

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Catalog No. : 31098 **Lot No.:** A0200707

Description : 1-Chlorooctadecane Standard

1-Chlorooctadecane Standard 10,000µg/mL, Methylene Chloride, 1mL/ampul

P13044 ↓ P13051 } Y.P. 12/26/23

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : September 30, 2030 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1-Chlorooctadecane	3386-33-2	E230426RSRB	99%	10,018.0 µg/mL	+/- 562.8106

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

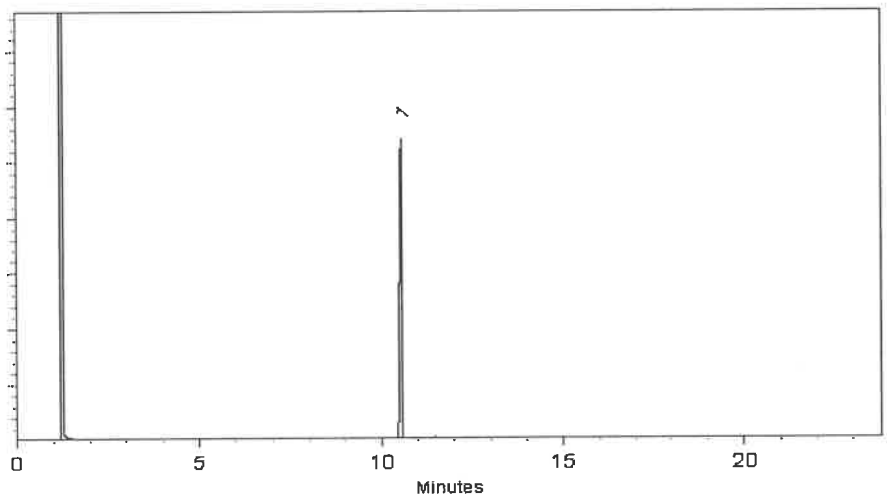
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
10 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Ashley Frantz - Quoting Technician

Date Mixed: 07-Aug-2023 **Balance Serial #** 1128360905

Dillan Murphy - Operations Technician I

Date Passed: 10-Aug-2023

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

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Catalog No. : 31098 **Lot No.:** A0200707

Description : 1-Chlorooctadecane Standard

1-Chlorooctadecane Standard 10,000µg/mL, Methylene Chloride, 1mL/ampul

P13044 & P13051 Y.P. 12/26/23

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : September 30, 2030 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1-Chlorooctadecane	3386-33-2	E230426RSRB	99%	10,018.0 µg/mL	+/- 562.8106

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

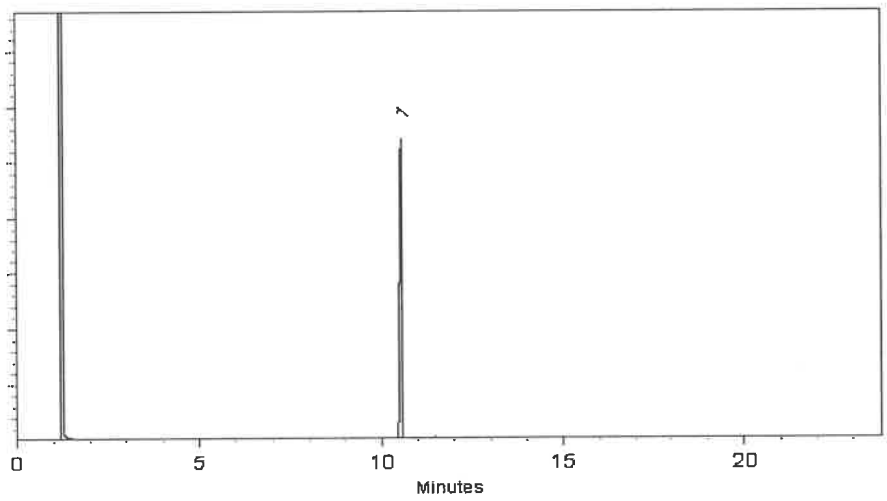
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
10 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Ashley Frantz - Quoting Technician

Date Mixed: 07-Aug-2023 **Balance Serial #** 1128360905

Dillan Murphy - Operations Technician I

Date Passed: 10-Aug-2023

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

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Catalog No. : 31098 **Lot No.:** A0200707

Description : 1-Chlorooctadecane Standard

1-Chlorooctadecane Standard 10,000µg/mL, Methylene Chloride, 1mL/ampul

P13044 & P13051 Y.P. 12/26/23

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : September 30, 2030 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1-Chlorooctadecane	3386-33-2	E230426RSRB	99%	10,018.0 µg/mL	+/- 562.8106

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

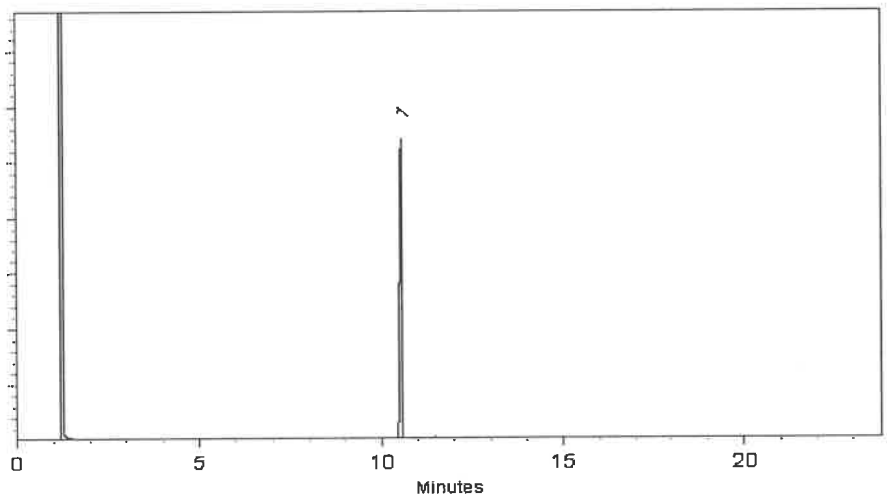
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
10 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Ashley Frantz - Quoting Technician

Date Mixed: 07-Aug-2023 **Balance Serial #** 1128360905

Dillan Murphy - Operations Technician I

Date Passed: 10-Aug-2023

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

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P13053 ↓ P13099 Y.P. 01/12/24

Catalog No. : 30542 **Lot No.:** A0203911

Description : NJEPH Aliphatics Matrix Spike Mix

NJEPH Aliphatics Matrix Spike Mix 200 µg/mL, n-Pentane, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : November 30, 2030 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	n-Nonane (C9)	111-84-2	SHBP9752	99%	200.0 µg/mL	+/- 5.1667
2	n-Decane (C10)	124-18-5	SHBQ1342	99%	200.0 µg/mL	+/- 5.1667
3	n-Dodecane (C12)	112-40-3	SHBP7054	99%	200.7 µg/mL	+/- 5.1839
4	n-Tetradecane (C14)	629-59-4	STBK5437	99%	200.7 µg/mL	+/- 5.1839
5	n-Hexadecane (C16)	544-76-3	SHBP8192	99%	200.3 µg/mL	+/- 5.1753
6	n-Octadecane (C18)	593-45-3	UE5NG	98%	200.6 µg/mL	+/- 5.1815
7	n-Eicosane (C20)	112-95-8	MKCN8767	97%	200.1 µg/mL	+/- 5.1704
8	n-Heneicosane (C21)	629-94-7	MKCL8682	99%	200.3 µg/mL	+/- 5.1753
9	n-Docosane (C22)	629-97-0	MKCQ3882	99%	200.0 µg/mL	+/- 5.1667
10	n-Tetracosane (C24)	646-31-1	MKCQ8345	99%	200.3 µg/mL	+/- 5.1753
11	n-Hexacosane (C26)	630-01-3	MKCQ4814	99%	200.0 µg/mL	+/- 5.1667
12	n-Octacosane (C28)	630-02-4	BCCG0084	99%	200.3 µg/mL	+/- 5.1753
13	n-Triacontane (C30)	638-68-6	MKCQ9436	97%	200.5 µg/mL	+/- 5.1788
14	n-Dotriacontane (C32)	544-85-4	BCBW0661	99%	200.0 µg/mL	+/- 5.1667
15	n-Tetratriacontane (C34)	14167-59-0	D3MZN	99%	200.0 µg/mL	+/- 5.1667
16	n-Hexatriacontane (C36)	630-06-8	Z27H018	99%	200.0 µg/mL	+/- 5.1667
17	n-Octatriacontane (C38)	7194-85-6	0000145137	96%	200.0 µg/mL	+/- 5.1667

18	n-Tetracontane (C40)	4181-95-7	OKEGA	99%	200.0 µg/mL	+/-	5.1667

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: n-Pentane
CAS # 109-66-0
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

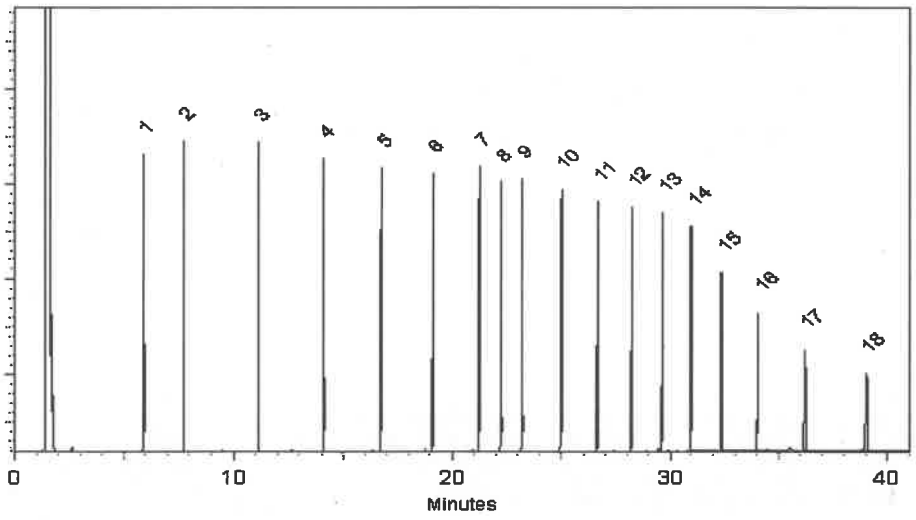
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Laith Clemente - Operations Technician I

Date Mixed: 31-Oct-2023 **Balance Serial #** B345965662

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 06-Nov-2023

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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Reference Material Producer
Certificate #3222.01

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ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

P13053 ↓ P13099 Y.P. 01/12/24

Catalog No. : 30542 **Lot No.:** A0203911

Description : NJEPH Aliphatics Matrix Spike Mix

NJEPH Aliphatics Matrix Spike Mix 200 µg/mL, n-Pentane, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : November 30, 2030 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	n-Nonane (C9)	111-84-2	SHBP9752	99%	200.0 µg/mL	+/- 5.1667
2	n-Decane (C10)	124-18-5	SHBQ1342	99%	200.0 µg/mL	+/- 5.1667
3	n-Dodecane (C12)	112-40-3	SHBP7054	99%	200.7 µg/mL	+/- 5.1839
4	n-Tetradecane (C14)	629-59-4	STBK5437	99%	200.7 µg/mL	+/- 5.1839
5	n-Hexadecane (C16)	544-76-3	SHBP8192	99%	200.3 µg/mL	+/- 5.1753
6	n-Octadecane (C18)	593-45-3	UE5NG	98%	200.6 µg/mL	+/- 5.1815
7	n-Eicosane (C20)	112-95-8	MKCN8767	97%	200.1 µg/mL	+/- 5.1704
8	n-Henicosane (C21)	629-94-7	MKCL8682	99%	200.3 µg/mL	+/- 5.1753
9	n-Docosane (C22)	629-97-0	MKCQ3882	99%	200.0 µg/mL	+/- 5.1667
10	n-Tetracosane (C24)	646-31-1	MKCQ8345	99%	200.3 µg/mL	+/- 5.1753
11	n-Hexacosane (C26)	630-01-3	MKCQ4814	99%	200.0 µg/mL	+/- 5.1667
12	n-Octacosane (C28)	630-02-4	BCCG0084	99%	200.3 µg/mL	+/- 5.1753
13	n-Triacontane (C30)	638-68-6	MKCQ9436	97%	200.5 µg/mL	+/- 5.1788
14	n-Dotriacontane (C32)	544-85-4	BCBW0661	99%	200.0 µg/mL	+/- 5.1667
15	n-Tetratriacontane (C34)	14167-59-0	D3MZN	99%	200.0 µg/mL	+/- 5.1667
16	n-Hexatriacontane (C36)	630-06-8	Z27H018	99%	200.0 µg/mL	+/- 5.1667
17	n-Octatriacontane (C38)	7194-85-6	0000145137	96%	200.0 µg/mL	+/- 5.1667

18	n-Tetracontane (C40)	4181-95-7	OKEGA	99%	200.0 µg/mL	+/-	5.1667

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: n-Pentane
CAS # 109-66-0
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

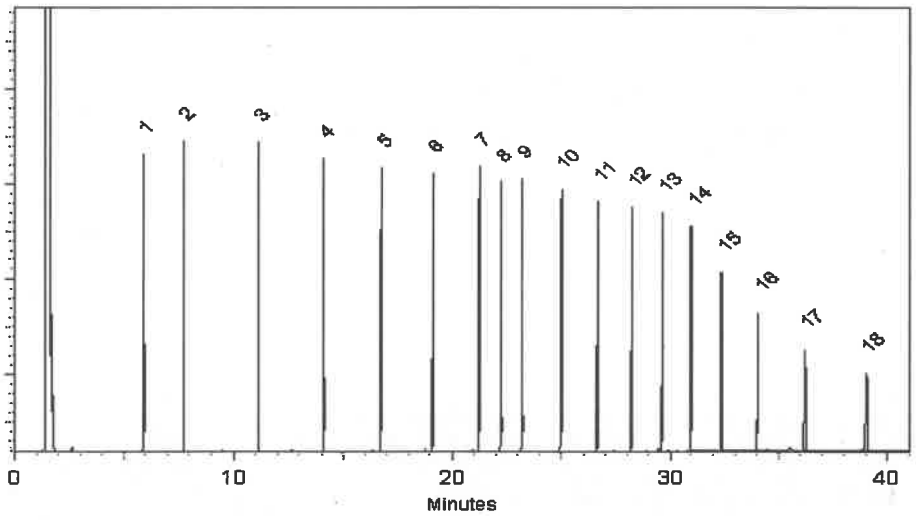
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Laith Clemente - Operations Technician I

Date Mixed: 31-Oct-2023 **Balance Serial #** B345965662

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 06-Nov-2023

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31480 **Lot No.:** A0206496

Description : MA Fractionation Surrogate Spike Mix

MA Fractionation Surrogate Spike Mix 4000µg/mL, Hexane, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : December 31, 2029 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

P13258 ↓ P13277 } Y.P. 02/20/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2-Fluorobiphenyl	321-60-8	00021384	99%	4,008.5 µg/mL	+/- 180.5736
2	2-Bromonaphthalene	580-13-2	STBC5362V	99%	4,001.5 µg/mL	+/- 180.2582

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Hexane
CAS # 110-54-3
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

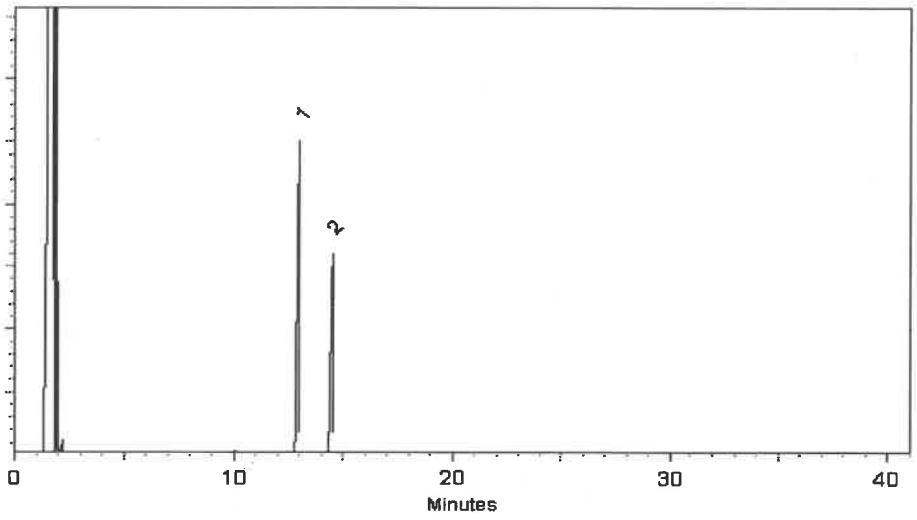
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Rebecca Gingerich - Operations Tech II

Date Mixed: 11-Jan-2024 **Balance Serial #** B345965662

Dillan Murphy - Operations Technician I

Date Passed: 15-Jan-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31480 **Lot No.:** A0206496

Description : MA Fractionation Surrogate Spike Mix

MA Fractionation Surrogate Spike Mix 4000µg/mL, Hexane, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : December 31, 2029 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

P13258 ↓ P13277 } Y.P. 02/20/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2-Fluorobiphenyl	321-60-8	00021384	99%	4,008.5 µg/mL	+/- 180.5736
2	2-Bromonaphthalene	580-13-2	STBC5362V	99%	4,001.5 µg/mL	+/- 180.2582

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Hexane
CAS # 110-54-3
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

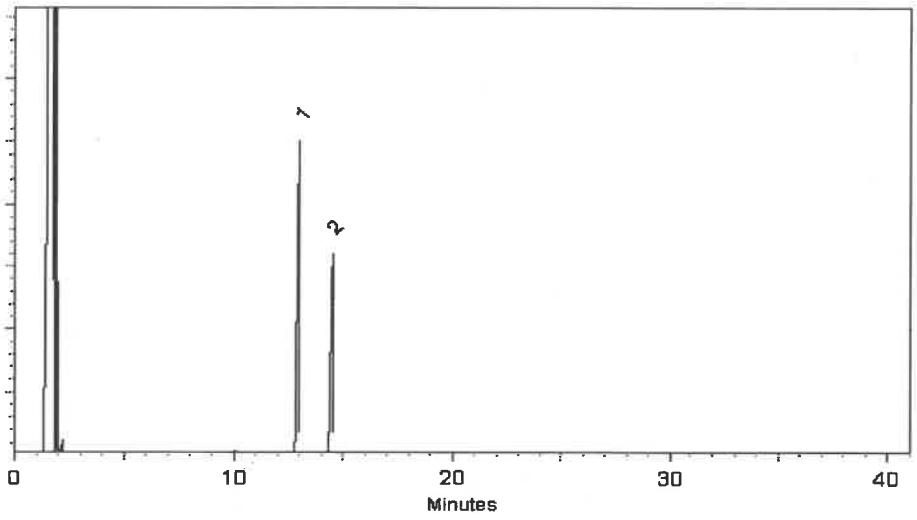
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Rebecca Gingerich - Operations Tech II

Date Mixed: 11-Jan-2024 **Balance Serial #** B345965662

Dillan Murphy - Operations Technician I

Date Passed: 15-Jan-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

CERTIFIED WEIGHT REPORT

Part Number: 95899
Lot Number: 040524
Description: NJ EPH Aliphatic n-Hydrocarbons - Revised
20 components
Expiration Date: 040534
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test ID#: 6UTB

Solvent(s): Lot#
Cyclohexane 28930

P13278
&
P13287
Y.P.
04111124

		040524
Formulated By:	Anthony Mahoney	DATE
		040524
Reviewed By:	Pedro L. Rentas	DATE

5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 25.0 0.001 Flask Uncertainty
CAUTION: Sonicate Before Use

	Compound	(RM#) Part Number	Lot Number	Dil. Factor	Initial Vol. (mL)	Initial Conc.(ug/mL)	Nominal Conc (µg/mL)	Purity (%)	Purity Uncertainty	Uncertainty Pipette	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1.	2-Methylnaphthalene	(0214)	MKBF3783V	NA	NA	NA	1000	97	0.2	NA	0.02579	0.02594	1005.7	5.7	91-57-6	N/A	orl-rat 1630mg/kg
2.	Naphthalene	(0222)	MKBZ8680V	NA	NA	NA	1000	100	0.2	NA	0.02502	0.02511	1003.7	5.7	91-20-3	10 ppm (50mg/m3/8H)	orl-rat 490mg/kg
3.	n-Nonane	95708	120222	1.00	25.00	1000.7	1000	NA	NA	0.013	NA	NA	1000.0	4.2	111-84-2	200 ppm (1050mg/m3/8H)	ivn-mus 218mg/kg
4.	n-Decane	95708	**120222**	1.00	25.00	1000.9	1000	NA	NA	0.013	NA	NA	1000.2	4.2	124-18-5	N/A	N/A
5.	n-Dodecane	95708	120222	1.00	25.00	1000.7	1000	NA	NA	0.013	NA	NA	1000.0	4.2	112-40-3	N/A	ivn-mus 3494mg/kg
6.	n-Tetradecane	95708	120222	1.00	25.00	1002.1	1000	NA	NA	0.013	NA	NA	1001.3	4.2	629-59-4	N/A	N/A
7.	n-Hexadecane	95708	120222	1.00	25.00	1000.5	1000	NA	NA	0.013	NA	NA	999.7	4.2	544-76-3	N/A	N/A
8.	n-Octadecane	95708	120222	1.00	25.00	1001.0	1000	NA	NA	0.013	NA	NA	1000.3	4.1	593-45-3	N/A	N/A
9.	n-Eicosane	95708	120222	1.00	25.00	1001.0	1000	NA	NA	0.013	NA	NA	1000.3	4.2	112-95-8	N/A	N/A
10.	n-Heneicosane	95708	120222	1.00	25.00	1002.4	1000	NA	NA	0.013	NA	NA	1001.6	4.2	629-94-7	N/A	N/A
11.	n-Docosane	95708	120222	1.00	25.00	1001.9	1000	NA	NA	0.013	NA	NA	1001.2	4.2	629-97-0	N/A	N/A
12.	n-Tetracosane	95708	120222	1.00	25.00	1000.8	1000	NA	NA	0.013	NA	NA	1000.1	4.2	646-31-1	N/A	N/A
13.	n-Hexacosane	95708	120222	1.00	25.00	1001.2	1000	NA	NA	0.013	NA	NA	1000.4	4.2	630-01-3	N/A	N/A
14.	n-Octacosane	95708	120222	1.00	25.00	1000.5	1000	NA	NA	0.013	NA	NA	999.8	4.2	630-02-4	N/A	N/A
15.	n-Triacontane	95708	120222	1.00	25.00	1000.5	1000	NA	NA	0.013	NA	NA	999.8	4.2	638-68-6	N/A	N/A
16.	n-Dotriacontane	95708	120222	1.00	25.00	1000.5	1000	NA	NA	0.013	NA	NA	999.8	4.3	544-85-4	N/A	ivn-mus 100mg/kg
17.	n-Tetratriacontane	95708	120222	1.00	25.00	1000.4	1000	NA	NA	0.013	NA	NA	999.7	4.2	14167-59-0	N/A	N/A
18.	n-Hexatriacontane	95708	120222	1.00	25.00	1001.5	1000	NA	NA	0.013	NA	NA	1000.8	4.2	630-06-8	N/A	N/A
19.	n-Octatriacontane	95708	120222	1.00	25.00	1000.3	1000	NA	NA	0.013	NA	NA	999.6	4.3	7194-85-6	N/A	N/A
20.	n-Tetracontane	95708	120222	1.00	25.00	1000.6	1000	NA	NA	0.013	NA	NA	999.9	4.3	4181-95-7	N/A	N/A

- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

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Reference Material Producer
Certificate #3222.01

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ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30542 **Lot No.:** A0207239

Description : NJEPH Aliphatics Matrix Spike Mix

NJEPH Aliphatics Matrix Spike Mix 200 µg/mL, n-Pentane, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : February 28, 2031 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

P13h17 & P13h29 } Y.P. 07116124

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	n-Nonane (C9)	111-84-2	SHBP9752	99%	201.0 µg/mL	+/- 5.1926
2	n-Decane (C10)	124-18-5	SHBQ1342	99%	200.7 µg/mL	+/- 5.1839
3	n-Dodecane (C12)	112-40-3	SHBP7054	99%	200.7 µg/mL	+/- 5.1839
4	n-Tetradecane (C14)	629-59-4	STBL0465	99%	200.7 µg/mL	+/- 5.1839
5	n-Hexadecane (C16)	544-76-3	SHBM4146	98%	200.6 µg/mL	+/- 5.1815
6	n-Octadecane (C18)	593-45-3	UE5NG	98%	199.9 µg/mL	+/- 5.1647
7	n-Eicosane (C20)	112-95-8	MKCN8767	97%	199.8 µg/mL	+/- 5.1621
8	n-Heneicosane (C21)	629-94-7	MKCL8682	99%	200.7 µg/mL	+/- 5.1839
9	n-Docosane (C22)	629-97-0	MKCQ3882	99%	200.0 µg/mL	+/- 5.1667
10	n-Tetracosane (C24)	646-31-1	MKCS9978	99%	200.7 µg/mL	+/- 5.1839
11	n-Hexacosane (C26)	630-01-3	MKCQ4814	99%	200.3 µg/mL	+/- 5.1753
12	n-Octacosane (C28)	630-02-4	BCCG0084	99%	200.3 µg/mL	+/- 5.1753
13	n-Triacontane (C30)	638-68-6	MKCQ9436	97%	199.8 µg/mL	+/- 5.1621
14	n-Dotriacontane (C32)	544-85-4	BCBW0661	99%	201.0 µg/mL	+/- 5.1926
15	n-Tetratriacontane (C34)	14167-59-0	OML4N	99%	200.7 µg/mL	+/- 5.1839
16	n-Hexatriacontane (C36)	630-06-8	Z27H018	99%	200.0 µg/mL	+/- 5.1667
17	n-Octatriacontane (C38)	7194-85-6	0000145137	96%	201.0 µg/mL	+/- 5.1915

18	n-Tetracontane (C40)	4181-95-7	OKEGA	99%	200.3 µg/mL	+/-	5.1753

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: n-Pentane
CAS # 109-66-0
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

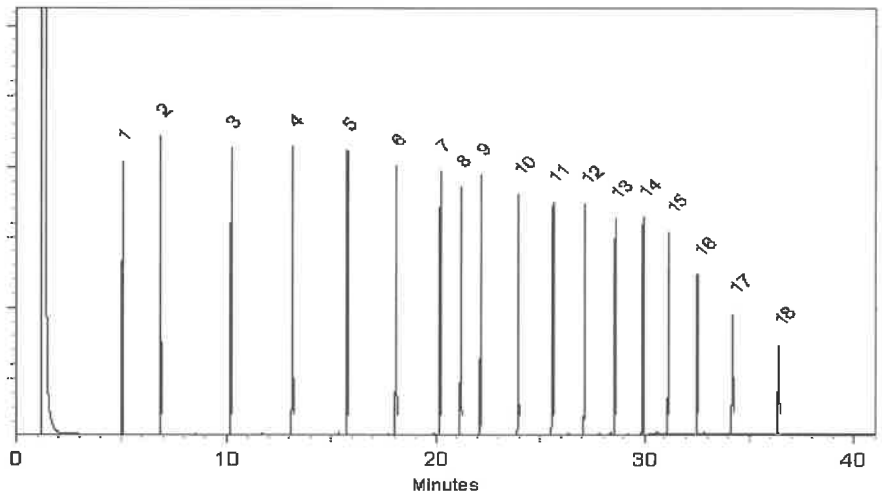
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Matt Fragassi - Mix Technician

Date Mixed: 31-Jan-2024 **Balance Serial #** 1128353505

Dillan Murphy - Operations Technician I

Date Passed: 02-Feb-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30542 **Lot No.:** A0211112

Description : NJEPH Aliphatics Matrix Spike Mix

NJEPH Aliphatics Matrix Spike Mix 200 µg/mL, n-Pentane, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : June 30, 2031 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

P13430 → P13436 Y.S. 6/7/16/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	n-Nonane (C9)	111-84-2	SHBP9752	99%	200.9 µg/mL	+/- 5.1891
2	n-Decane (C10)	124-18-5	SHBQ1342	99%	200.7 µg/mL	+/- 5.1857
3	n-Dodecane (C12)	112-40-3	SHBP7054	99%	200.4 µg/mL	+/- 5.1771
4	n-Tetradecane (C14)	629-59-4	STBK5437	99%	200.7 µg/mL	+/- 5.1839
5	n-Hexadecane (C16)	544-76-3	SHBR0669	99%	200.6 µg/mL	+/- 5.1822
6	n-Octadecane (C18)	593-45-3	UE5NG	98%	200.4 µg/mL	+/- 5.1782
7	n-Eicosane (C20)	112-95-8	MKCN8767	97%	200.4 µg/mL	+/- 5.1771
8	n-Heneicosane (C21)	629-94-7	MKCL3226	99%	200.5 µg/mL	+/- 5.1796
9	n-Docosane (C22)	629-97-0	MKCQ3882	99%	200.6 µg/mL	+/- 5.1814
10	n-Tetracosane (C24)	646-31-1	MKCS9978	99%	200.5 µg/mL	+/- 5.1805
11	n-Hexacosane (C26)	630-01-3	MKCQ4814	99%	200.5 µg/mL	+/- 5.1796
12	n-Octacosane (C28)	630-02-4	BCCG0084	99%	200.5 µg/mL	+/- 5.1796
13	n-Triacontane (C30)	638-68-6	MKCQ9436	97%	200.4 µg/mL	+/- 5.1763
14	n-Dotriacontane (C32)	544-85-4	BCBW0661	99%	200.4 µg/mL	+/- 5.1779
15	n-Tetratriacontane (C34)	14167-59-0	D3MZN	99%	200.5 µg/mL	+/- 5.1805
16	n-Hexatriacontane (C36)	630-06-8	Z27H018	99%	200.6 µg/mL	+/- 5.1814
17	n-Octatriacontane (C38)	7194-85-6	0000145137	96%	200.5 µg/mL	+/- 5.1808

18	n-Tetracontane (C40)	4181-95-7	OKEGA	99%	200.5 µg/mL	+/-	5.1805

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: n-Pentane
CAS # 109-66-0
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

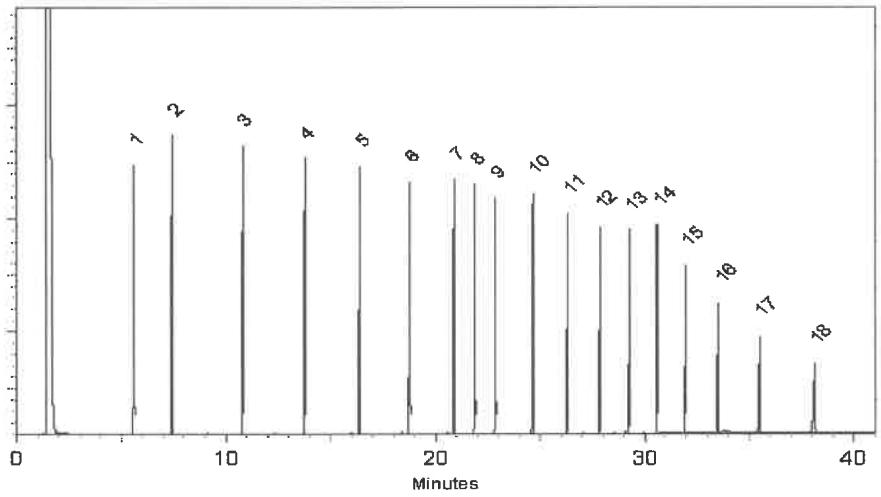
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Laith Clemente - Operations Technician I

Date Mixed: 07-May-2024 **Balance Serial #** 1128360905

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 09-May-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30542 **Lot No.:** A0211112

Description : NJEPH Aliphatics Matrix Spike Mix

NJEPH Aliphatics Matrix Spike Mix 200 µg/mL, n-Pentane, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : June 30, 2031 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

P13430 ↓ P13436 Y.S. 6/7/16/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	n-Nonane (C9)	111-84-2	SHBP9752	99%	200.9 µg/mL	+/- 5.1891
2	n-Decane (C10)	124-18-5	SHBQ1342	99%	200.7 µg/mL	+/- 5.1857
3	n-Dodecane (C12)	112-40-3	SHBP7054	99%	200.4 µg/mL	+/- 5.1771
4	n-Tetradecane (C14)	629-59-4	STBK5437	99%	200.7 µg/mL	+/- 5.1839
5	n-Hexadecane (C16)	544-76-3	SHBR0669	99%	200.6 µg/mL	+/- 5.1822
6	n-Octadecane (C18)	593-45-3	UE5NG	98%	200.4 µg/mL	+/- 5.1782
7	n-Eicosane (C20)	112-95-8	MKCN8767	97%	200.4 µg/mL	+/- 5.1771
8	n-Heneicosane (C21)	629-94-7	MKCL3226	99%	200.5 µg/mL	+/- 5.1796
9	n-Docosane (C22)	629-97-0	MKCQ3882	99%	200.6 µg/mL	+/- 5.1814
10	n-Tetracosane (C24)	646-31-1	MKCS9978	99%	200.5 µg/mL	+/- 5.1805
11	n-Hexacosane (C26)	630-01-3	MKCQ4814	99%	200.5 µg/mL	+/- 5.1796
12	n-Octacosane (C28)	630-02-4	BCCG0084	99%	200.5 µg/mL	+/- 5.1796
13	n-Triacontane (C30)	638-68-6	MKCQ9436	97%	200.4 µg/mL	+/- 5.1763
14	n-Dotriacontane (C32)	544-85-4	BCBW0661	99%	200.4 µg/mL	+/- 5.1779
15	n-Tetratriacontane (C34)	14167-59-0	D3MZN	99%	200.5 µg/mL	+/- 5.1805
16	n-Hexatriacontane (C36)	630-06-8	Z27H018	99%	200.6 µg/mL	+/- 5.1814
17	n-Octatriacontane (C38)	7194-85-6	0000145137	96%	200.5 µg/mL	+/- 5.1808

18	n-Tetracontane (C40)	4181-95-7	OKEGA	99%	200.5 µg/mL	+/-	5.1805

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: n-Pentane
CAS # 109-66-0
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

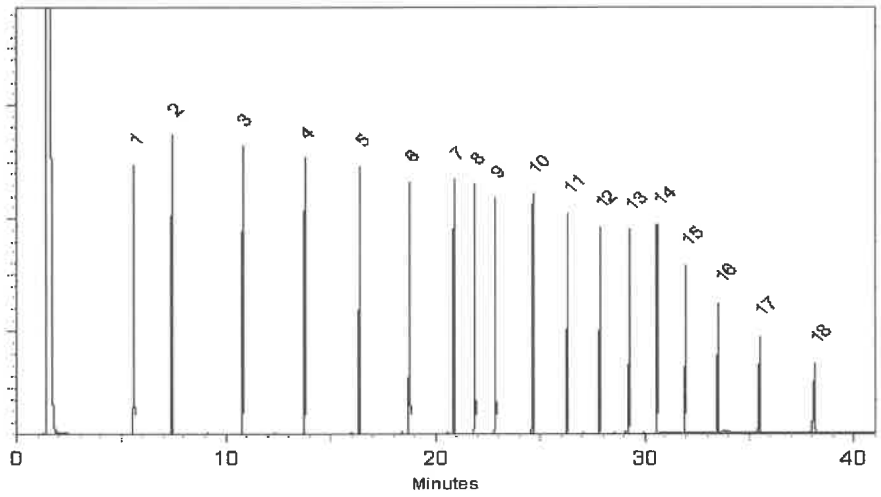
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Laith Clemente - Operations Technician I — **Date Mixed:** 07-May-2024 — **Balance Serial #** 1128360905

Jennifer Pollino - Operations Tech III - ARM QC — **Date Passed:** 09-May-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30542 **Lot No.:** A0211112

Description : NJEPH Aliphatics Matrix Spike Mix

NJEPH Aliphatics Matrix Spike Mix 200 µg/mL, n-Pentane, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : June 30, 2031 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

P13430 ↓ P13436 Y.S. 6/7/16/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	n-Nonane (C9)	111-84-2	SHBP9752	99%	200.9 µg/mL	+/- 5.1891
2	n-Decane (C10)	124-18-5	SHBQ1342	99%	200.7 µg/mL	+/- 5.1857
3	n-Dodecane (C12)	112-40-3	SHBP7054	99%	200.4 µg/mL	+/- 5.1771
4	n-Tetradecane (C14)	629-59-4	STBK5437	99%	200.7 µg/mL	+/- 5.1839
5	n-Hexadecane (C16)	544-76-3	SHBR0669	99%	200.6 µg/mL	+/- 5.1822
6	n-Octadecane (C18)	593-45-3	UE5NG	98%	200.4 µg/mL	+/- 5.1782
7	n-Eicosane (C20)	112-95-8	MKCN8767	97%	200.4 µg/mL	+/- 5.1771
8	n-Heneicosane (C21)	629-94-7	MKCL3226	99%	200.5 µg/mL	+/- 5.1796
9	n-Docosane (C22)	629-97-0	MKCQ3882	99%	200.6 µg/mL	+/- 5.1814
10	n-Tetracosane (C24)	646-31-1	MKCS9978	99%	200.5 µg/mL	+/- 5.1805
11	n-Hexacosane (C26)	630-01-3	MKCQ4814	99%	200.5 µg/mL	+/- 5.1796
12	n-Octacosane (C28)	630-02-4	BCCG0084	99%	200.5 µg/mL	+/- 5.1796
13	n-Triacontane (C30)	638-68-6	MKCQ9436	97%	200.4 µg/mL	+/- 5.1763
14	n-Dotriacontane (C32)	544-85-4	BCBW0661	99%	200.4 µg/mL	+/- 5.1779
15	n-Tetratriacontane (C34)	14167-59-0	D3MZN	99%	200.5 µg/mL	+/- 5.1805
16	n-Hexatriacontane (C36)	630-06-8	Z27H018	99%	200.6 µg/mL	+/- 5.1814
17	n-Octatriacontane (C38)	7194-85-6	0000145137	96%	200.5 µg/mL	+/- 5.1808

18	n-Tetracontane (C40)	4181-95-7	OKEGA	99%	200.5 µg/mL	+/-	5.1805

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: n-Pentane
CAS # 109-66-0
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

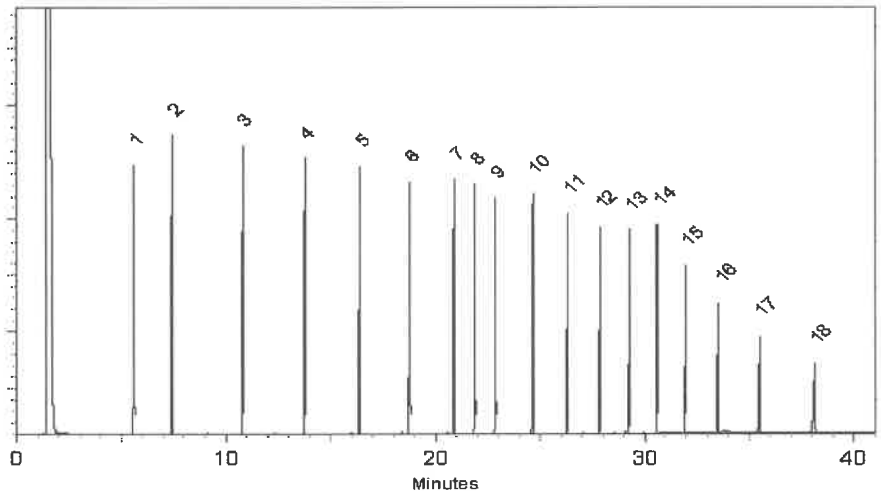
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Laith Clemente - Operations Technician I — **Date Mixed:** 07-May-2024 — **Balance Serial #** 1128360905

Jennifer Pollino - Operations Tech III - ARM QC — **Date Passed:** 09-May-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
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Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30542 **Lot No.:** A0211112

Description : NJEPH Aliphatics Matrix Spike Mix

NJEPH Aliphatics Matrix Spike Mix 200 µg/mL, n-Pentane, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : June 30, 2031 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

P13430 → P13436 Y.S. 6/7/16/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	n-Nonane (C9)	111-84-2	SHBP9752	99%	200.9 µg/mL	+/- 5.1891
2	n-Decane (C10)	124-18-5	SHBQ1342	99%	200.7 µg/mL	+/- 5.1857
3	n-Dodecane (C12)	112-40-3	SHBP7054	99%	200.4 µg/mL	+/- 5.1771
4	n-Tetradecane (C14)	629-59-4	STBK5437	99%	200.7 µg/mL	+/- 5.1839
5	n-Hexadecane (C16)	544-76-3	SHBR0669	99%	200.6 µg/mL	+/- 5.1822
6	n-Octadecane (C18)	593-45-3	UE5NG	98%	200.4 µg/mL	+/- 5.1782
7	n-Eicosane (C20)	112-95-8	MKCN8767	97%	200.4 µg/mL	+/- 5.1771
8	n-Heneicosane (C21)	629-94-7	MKCL3226	99%	200.5 µg/mL	+/- 5.1796
9	n-Docosane (C22)	629-97-0	MKCQ3882	99%	200.6 µg/mL	+/- 5.1814
10	n-Tetracosane (C24)	646-31-1	MKCS9978	99%	200.5 µg/mL	+/- 5.1805
11	n-Hexacosane (C26)	630-01-3	MKCQ4814	99%	200.5 µg/mL	+/- 5.1796
12	n-Octacosane (C28)	630-02-4	BCCG0084	99%	200.5 µg/mL	+/- 5.1796
13	n-Triacontane (C30)	638-68-6	MKCQ9436	97%	200.4 µg/mL	+/- 5.1763
14	n-Dotriacontane (C32)	544-85-4	BCBW0661	99%	200.4 µg/mL	+/- 5.1779
15	n-Tetratriacontane (C34)	14167-59-0	D3MZN	99%	200.5 µg/mL	+/- 5.1805
16	n-Hexatriacontane (C36)	630-06-8	Z27H018	99%	200.6 µg/mL	+/- 5.1814
17	n-Octatriacontane (C38)	7194-85-6	0000145137	96%	200.5 µg/mL	+/- 5.1808

18	n-Tetracontane (C40)	4181-95-7	OKEGA	99%	200.5 µg/mL	+/-	5.1805

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: n-Pentane
CAS # 109-66-0
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

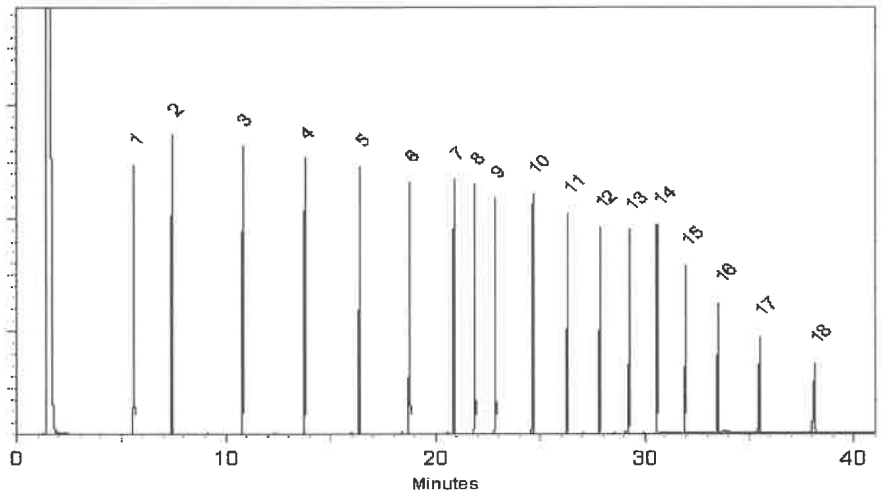
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Laith Clemente - Operations Technician I **Date Mixed:** 07-May-2024 **Balance Serial #** 1128360905

Jennifer Pollino - Operations Tech III - ARM QC **Date Passed:** 09-May-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

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Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30542 **Lot No.:** A0211112

Description : NJEPH Aliphatics Matrix Spike Mix

NJEPH Aliphatics Matrix Spike Mix 200 µg/mL, n-Pentane, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : June 30, 2031 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

P13430 ↓ P13436 Y.S. 6/7/16/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	n-Nonane (C9)	111-84-2	SHBP9752	99%	200.9 µg/mL	+/- 5.1891
2	n-Decane (C10)	124-18-5	SHBQ1342	99%	200.7 µg/mL	+/- 5.1857
3	n-Dodecane (C12)	112-40-3	SHBP7054	99%	200.4 µg/mL	+/- 5.1771
4	n-Tetradecane (C14)	629-59-4	STBK5437	99%	200.7 µg/mL	+/- 5.1839
5	n-Hexadecane (C16)	544-76-3	SHBR0669	99%	200.6 µg/mL	+/- 5.1822
6	n-Octadecane (C18)	593-45-3	UE5NG	98%	200.4 µg/mL	+/- 5.1782
7	n-Eicosane (C20)	112-95-8	MKCN8767	97%	200.4 µg/mL	+/- 5.1771
8	n-Heneicosane (C21)	629-94-7	MKCL3226	99%	200.5 µg/mL	+/- 5.1796
9	n-Docosane (C22)	629-97-0	MKCQ3882	99%	200.6 µg/mL	+/- 5.1814
10	n-Tetracosane (C24)	646-31-1	MKCS9978	99%	200.5 µg/mL	+/- 5.1805
11	n-Hexacosane (C26)	630-01-3	MKCQ4814	99%	200.5 µg/mL	+/- 5.1796
12	n-Octacosane (C28)	630-02-4	BCCG0084	99%	200.5 µg/mL	+/- 5.1796
13	n-Triacontane (C30)	638-68-6	MKCQ9436	97%	200.4 µg/mL	+/- 5.1763
14	n-Dotriacontane (C32)	544-85-4	BCBW0661	99%	200.4 µg/mL	+/- 5.1779
15	n-Tetratriacontane (C34)	14167-59-0	D3MZN	99%	200.5 µg/mL	+/- 5.1805
16	n-Hexatriacontane (C36)	630-06-8	Z27H018	99%	200.6 µg/mL	+/- 5.1814
17	n-Octatriacontane (C38)	7194-85-6	0000145137	96%	200.5 µg/mL	+/- 5.1808

18	n-Tetracontane (C40)	4181-95-7	OKEGA	99%	200.5 µg/mL	+/-	5.1805

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: n-Pentane
CAS # 109-66-0
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

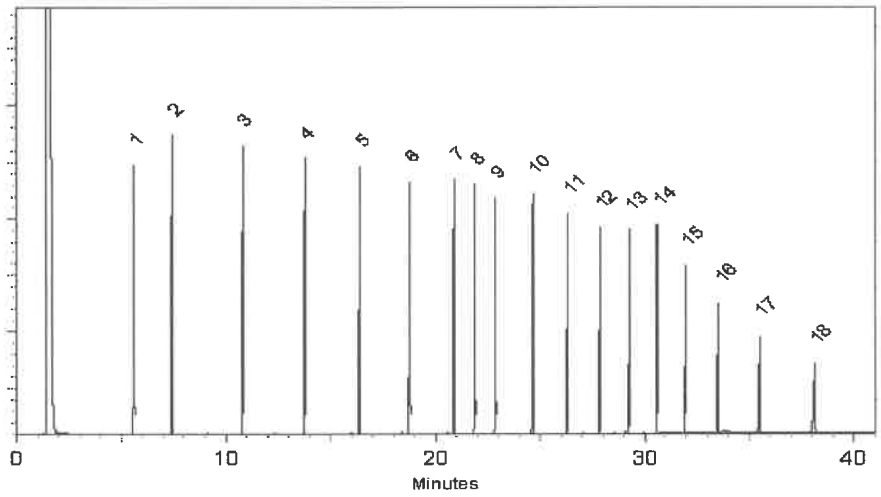
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Laith Clemente - Operations Technician I

Date Mixed: 07-May-2024 **Balance Serial #** 1128360905

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 09-May-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30542 **Lot No.:** A0211112

Description : NJEPH Aliphatics Matrix Spike Mix

NJEPH Aliphatics Matrix Spike Mix 200 µg/mL, n-Pentane, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : June 30, 2031 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

P13430 ↓ P13436 Y.S. 6/7/16/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	n-Nonane (C9)	111-84-2	SHBP9752	99%	200.9 µg/mL	+/- 5.1891
2	n-Decane (C10)	124-18-5	SHBQ1342	99%	200.7 µg/mL	+/- 5.1857
3	n-Dodecane (C12)	112-40-3	SHBP7054	99%	200.4 µg/mL	+/- 5.1771
4	n-Tetradecane (C14)	629-59-4	STBK5437	99%	200.7 µg/mL	+/- 5.1839
5	n-Hexadecane (C16)	544-76-3	SHBR0669	99%	200.6 µg/mL	+/- 5.1822
6	n-Octadecane (C18)	593-45-3	UE5NG	98%	200.4 µg/mL	+/- 5.1782
7	n-Eicosane (C20)	112-95-8	MKCN8767	97%	200.4 µg/mL	+/- 5.1771
8	n-Heneicosane (C21)	629-94-7	MKCL3226	99%	200.5 µg/mL	+/- 5.1796
9	n-Docosane (C22)	629-97-0	MKCQ3882	99%	200.6 µg/mL	+/- 5.1814
10	n-Tetracosane (C24)	646-31-1	MKCS9978	99%	200.5 µg/mL	+/- 5.1805
11	n-Hexacosane (C26)	630-01-3	MKCQ4814	99%	200.5 µg/mL	+/- 5.1796
12	n-Octacosane (C28)	630-02-4	BCCG0084	99%	200.5 µg/mL	+/- 5.1796
13	n-Triacontane (C30)	638-68-6	MKCQ9436	97%	200.4 µg/mL	+/- 5.1763
14	n-Dotriacontane (C32)	544-85-4	BCBW0661	99%	200.4 µg/mL	+/- 5.1779
15	n-Tetratriacontane (C34)	14167-59-0	D3MZN	99%	200.5 µg/mL	+/- 5.1805
16	n-Hexatriacontane (C36)	630-06-8	Z27H018	99%	200.6 µg/mL	+/- 5.1814
17	n-Octatriacontane (C38)	7194-85-6	0000145137	96%	200.5 µg/mL	+/- 5.1808

18	n-Tetracontane (C40)	4181-95-7	OKEGA	99%	200.5 µg/mL	+/-	5.1805

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: n-Pentane
CAS # 109-66-0
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

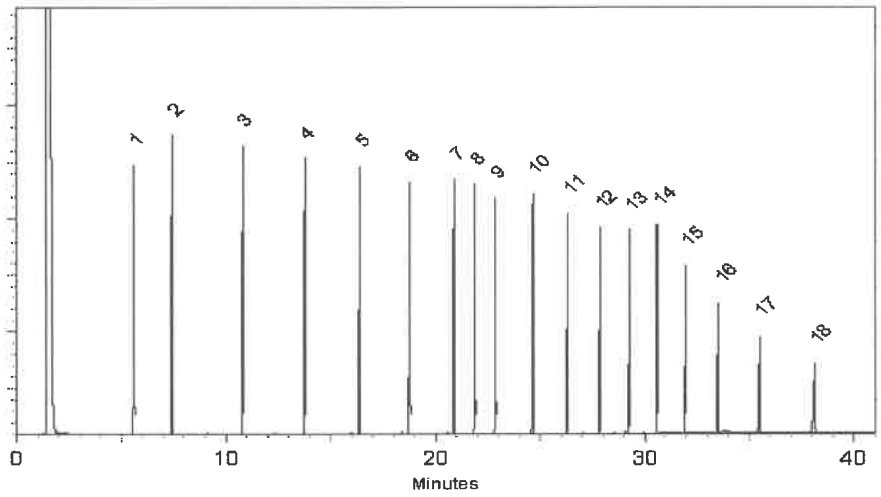
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Laith Clemente - Operations Technician I — **Date Mixed:** 07-May-2024 — **Balance Serial #** 1128360905

Jennifer Pollino - Operations Tech III - ARM QC — **Date Passed:** 09-May-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

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- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

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Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30542 **Lot No.:** A0211112

Description : NJEPH Aliphatics Matrix Spike Mix

NJEPH Aliphatics Matrix Spike Mix 200 µg/mL, n-Pentane, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : June 30, 2031 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

P13430 ↓ P13436 Y.S. 6/7/16/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	n-Nonane (C9)	111-84-2	SHBP9752	99%	200.9 µg/mL	+/- 5.1891
2	n-Decane (C10)	124-18-5	SHBQ1342	99%	200.7 µg/mL	+/- 5.1857
3	n-Dodecane (C12)	112-40-3	SHBP7054	99%	200.4 µg/mL	+/- 5.1771
4	n-Tetradecane (C14)	629-59-4	STBK5437	99%	200.7 µg/mL	+/- 5.1839
5	n-Hexadecane (C16)	544-76-3	SHBR0669	99%	200.6 µg/mL	+/- 5.1822
6	n-Octadecane (C18)	593-45-3	UE5NG	98%	200.4 µg/mL	+/- 5.1782
7	n-Eicosane (C20)	112-95-8	MKCN8767	97%	200.4 µg/mL	+/- 5.1771
8	n-Heneicosane (C21)	629-94-7	MKCL3226	99%	200.5 µg/mL	+/- 5.1796
9	n-Docosane (C22)	629-97-0	MKCQ3882	99%	200.6 µg/mL	+/- 5.1814
10	n-Tetracosane (C24)	646-31-1	MKCS9978	99%	200.5 µg/mL	+/- 5.1805
11	n-Hexacosane (C26)	630-01-3	MKCQ4814	99%	200.5 µg/mL	+/- 5.1796
12	n-Octacosane (C28)	630-02-4	BCCG0084	99%	200.5 µg/mL	+/- 5.1796
13	n-Triacontane (C30)	638-68-6	MKCQ9436	97%	200.4 µg/mL	+/- 5.1763
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17	n-Octatriacontane (C38)	7194-85-6	0000145137	96%	200.5 µg/mL	+/- 5.1808

18	n-Tetracontane (C40)	4181-95-7	OKEGA	99%	200.5 µg/mL	+/-	5.1805

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: n-Pentane
CAS # 109-66-0
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

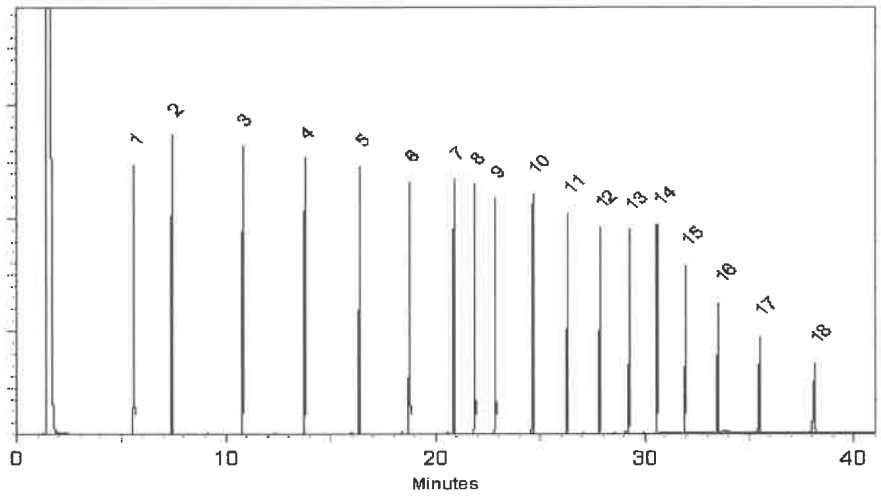
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
1µl



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Laith Clemente - Operations Technician I

Date Mixed: 07-May-2024 **Balance Serial #** 1128360905

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 09-May-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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CERTIFIED REFERENCE MATERIAL

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Certificate #3222.01

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ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30543 **Lot No.:** A0211254

Description : NJEPH Aromatics Matrix Spike Mix

NJEPH Aromatics Matrix Spike Mix 200µg/mL, Acetone/Toluene (50:50), 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : April 30, 2030 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

P13437
2
P13452
Y.P.
07/16/24.

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2,3-Trimethylbenzene	526-73-8	8776.10-38	99%	200.0 µg/mL	+/- 9.0114
2	Naphthalene	91-20-3	STBL1057	99%	200.8 µg/mL	+/- 9.0474
3	2-Methylnaphthalene	91-57-6	STBK0259	96%	200.4 µg/mL	+/- 9.0316
4	Acenaphthylene	208-96-8	214935L31M	98%	200.3 µg/mL	+/- 9.0255
5	Acenaphthene	83-32-9	MKCR7169	99%	202.0 µg/mL	+/- 9.1015
6	Fluorene	86-73-7	10241100	99%	201.2 µg/mL	+/- 9.0655
7	Phenanthrene	85-01-8	MKCS5188	99%	200.4 µg/mL	+/- 9.0294
8	Anthracene	120-12-7	MKCR0570	99%	200.4 µg/mL	+/- 9.0294
9	Fluoranthene	206-44-0	MKCQ4728	99%	200.8 µg/mL	+/- 9.0474
10	Pyrene	129-00-0	BCCK2592	99%	201.2 µg/mL	+/- 9.0655
11	Benz(a)anthracene	56-55-3	I30012022BAA	99%	200.8 µg/mL	+/- 9.0474
12	Chrysene	218-01-9	RP231206RSR	99%	200.4 µg/mL	+/- 9.0294
13	Benzo(b)fluoranthene	205-99-2	012013B	99%	200.4 µg/mL	+/- 9.0294
14	Benzo(k)fluoranthene	207-08-9	012022K	99%	200.0 µg/mL	+/- 9.0114
15	Benzo(a)pyrene	50-32-8	O45GL	98%	200.7 µg/mL	+/- 9.0431
16	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	199.8 µg/mL	+/- 9.0033

17	Dibenz(a,h)anthracene	53-70-3	2-ASA-59-1	99%	200.0	µg/mL	+/- 9.0114
18	Benzo(g,h,i)perylene	191-24-2	RP240105ECS	99%	200.8	µg/mL	+/- 9.0474

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Acetone/Toluene (50:50)
CAS # 67-64-1/108-88-3
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
100°C (hold 1 min.) to 330°C
@ 4°C/min. (hold 5 min.)

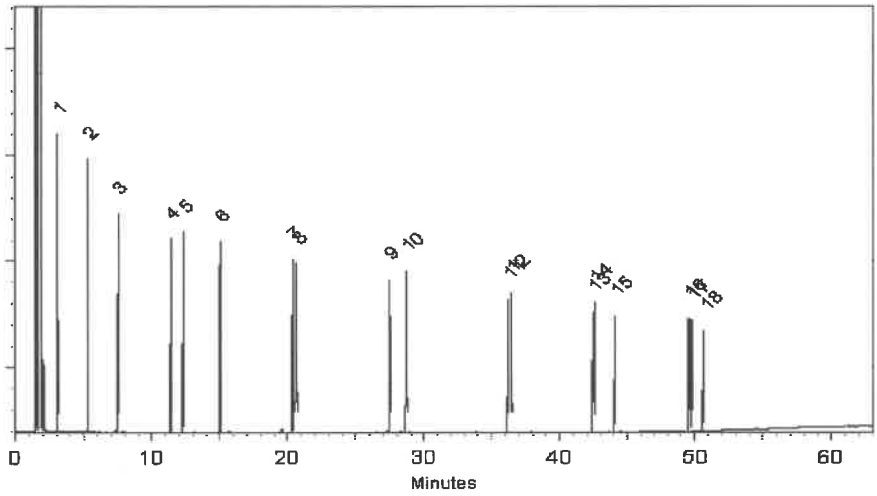
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
20 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Michael Maye - Operations Tech I **Date Mixed:** 09-May-2024 **Balance Serial #** 1128353505

Jennifer Pollino - Operations Tech III - ARM QC **Date Passed:** 13-May-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30543 **Lot No.:** A0211254

Description : NJEPH Aromatics Matrix Spike Mix

NJEPH Aromatics Matrix Spike Mix 200µg/mL, Acetone/Toluene (50:50), 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : April 30, 2030 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

P13437
2
P13452
Y.P. 07/16/24.

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2,3-Trimethylbenzene	526-73-8	8776.10-38	99%	200.0 µg/mL	+/- 9.0114
2	Naphthalene	91-20-3	STBL1057	99%	200.8 µg/mL	+/- 9.0474
3	2-Methylnaphthalene	91-57-6	STBK0259	96%	200.4 µg/mL	+/- 9.0316
4	Acenaphthylene	208-96-8	214935L31M	98%	200.3 µg/mL	+/- 9.0255
5	Acenaphthene	83-32-9	MKCR7169	99%	202.0 µg/mL	+/- 9.1015
6	Fluorene	86-73-7	10241100	99%	201.2 µg/mL	+/- 9.0655
7	Phenanthrene	85-01-8	MKCS5188	99%	200.4 µg/mL	+/- 9.0294
8	Anthracene	120-12-7	MKCR0570	99%	200.4 µg/mL	+/- 9.0294
9	Fluoranthene	206-44-0	MKCQ4728	99%	200.8 µg/mL	+/- 9.0474
10	Pyrene	129-00-0	BCCK2592	99%	201.2 µg/mL	+/- 9.0655
11	Benz(a)anthracene	56-55-3	I30012022BAA	99%	200.8 µg/mL	+/- 9.0474
12	Chrysene	218-01-9	RP231206RSR	99%	200.4 µg/mL	+/- 9.0294
13	Benzo(b)fluoranthene	205-99-2	012013B	99%	200.4 µg/mL	+/- 9.0294
14	Benzo(k)fluoranthene	207-08-9	012022K	99%	200.0 µg/mL	+/- 9.0114
15	Benzo(a)pyrene	50-32-8	O45GL	98%	200.7 µg/mL	+/- 9.0431
16	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	199.8 µg/mL	+/- 9.0033

17	Dibenz(a,h)anthracene	53-70-3	2-ASA-59-1	99%	200.0	µg/mL	+/- 9.0114
18	Benzo(g,h,i)perylene	191-24-2	RP240105ECS	99%	200.8	µg/mL	+/- 9.0474

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Acetone/Toluene (50:50)
CAS # 67-64-1/108-88-3
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
100°C (hold 1 min.) to 330°C
@ 4°C/min. (hold 5 min.)

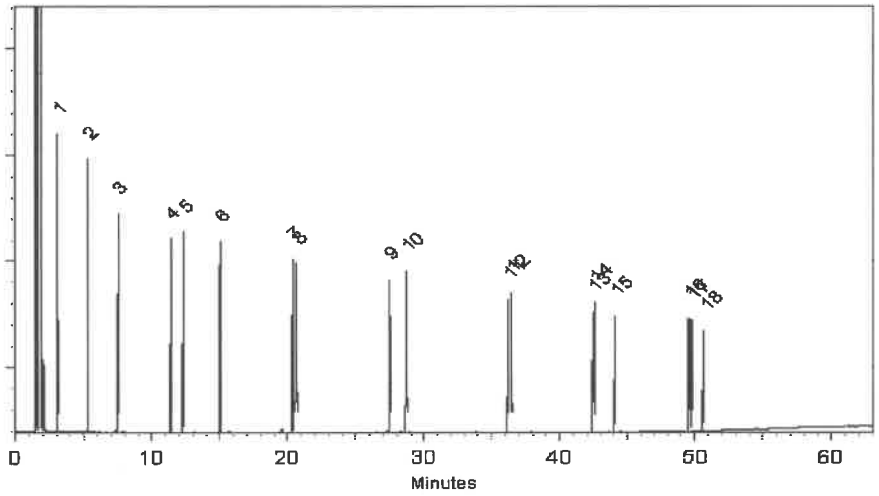
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
20 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Michael Maye - Operations Tech I **Date Mixed:** 09-May-2024 **Balance Serial #** 1128353505

Jennifer Pollino - Operations Tech III - ARM QC **Date Passed:** 13-May-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

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  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

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Catalog No. : 30543 **Lot No.:** A0211254

Description : NJEPH Aromatics Matrix Spike Mix

NJEPH Aromatics Matrix Spike Mix 200µg/mL, Acetone/Toluene (50:50), 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : April 30, 2030 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

P13437
2
P13452
Y.P.
07/16/24.

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2,3-Trimethylbenzene	526-73-8	8776.10-38	99%	200.0 µg/mL	+/- 9.0114
2	Naphthalene	91-20-3	STBL1057	99%	200.8 µg/mL	+/- 9.0474
3	2-Methylnaphthalene	91-57-6	STBK0259	96%	200.4 µg/mL	+/- 9.0316
4	Acenaphthylene	208-96-8	214935L31M	98%	200.3 µg/mL	+/- 9.0255
5	Acenaphthene	83-32-9	MKCR7169	99%	202.0 µg/mL	+/- 9.1015
6	Fluorene	86-73-7	10241100	99%	201.2 µg/mL	+/- 9.0655
7	Phenanthrene	85-01-8	MKCS5188	99%	200.4 µg/mL	+/- 9.0294
8	Anthracene	120-12-7	MKCR0570	99%	200.4 µg/mL	+/- 9.0294
9	Fluoranthene	206-44-0	MKCQ4728	99%	200.8 µg/mL	+/- 9.0474
10	Pyrene	129-00-0	BCCK2592	99%	201.2 µg/mL	+/- 9.0655
11	Benz(a)anthracene	56-55-3	I30012022BAA	99%	200.8 µg/mL	+/- 9.0474
12	Chrysene	218-01-9	RP231206RSR	99%	200.4 µg/mL	+/- 9.0294
13	Benzo(b)fluoranthene	205-99-2	012013B	99%	200.4 µg/mL	+/- 9.0294
14	Benzo(k)fluoranthene	207-08-9	012022K	99%	200.0 µg/mL	+/- 9.0114
15	Benzo(a)pyrene	50-32-8	O45GL	98%	200.7 µg/mL	+/- 9.0431
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17	Dibenz(a,h)anthracene	53-70-3	2-ASA-59-1	99%	200.0	µg/mL	+/-	9.0114
18	Benzo(g,h,i)perylene	191-24-2	RP240105ECS	99%	200.8	µg/mL	+/-	9.0474

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Acetone/Toluene (50:50)
CAS # 67-64-1/108-88-3
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
100°C (hold 1 min.) to 330°C
@ 4°C/min. (hold 5 min.)

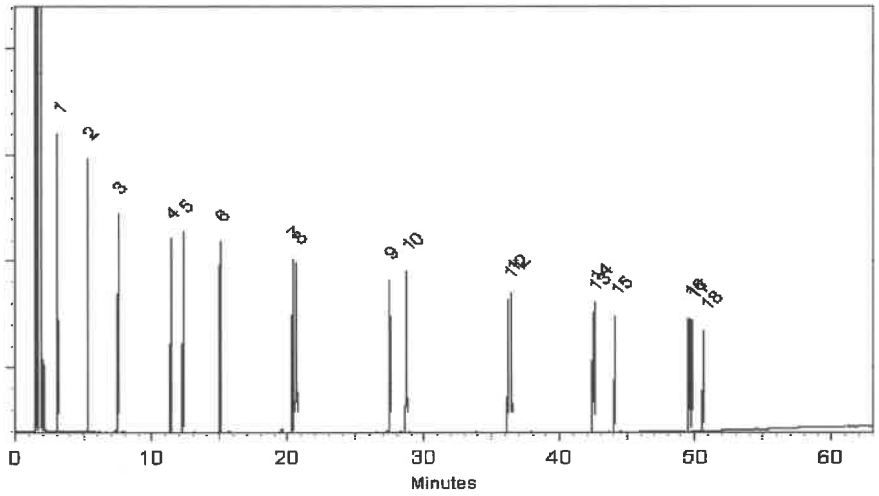
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
20 ml/min.

Inj. Vol
1µl



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Michael Maye - Operations Tech I **Date Mixed:** 09-May-2024 **Balance Serial #** 1128353505

Jennifer Pollino - Operations Tech III - ARM QC **Date Passed:** 13-May-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

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- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

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Manufacturing Notes:

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Handling Notes:

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Description : NJEPH Aromatics Matrix Spike Mix

NJEPH Aromatics Matrix Spike Mix 200µg/mL, Acetone/Toluene (50:50), 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : April 30, 2030 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

P13437
2
P13452
Y.P.
07/16/24.

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
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3	2-Methylnaphthalene	91-57-6	STBK0259	96%	200.4 µg/mL	+/- 9.0316
4	Acenaphthylene	208-96-8	214935L31M	98%	200.3 µg/mL	+/- 9.0255
5	Acenaphthene	83-32-9	MKCR7169	99%	202.0 µg/mL	+/- 9.1015
6	Fluorene	86-73-7	10241100	99%	201.2 µg/mL	+/- 9.0655
7	Phenanthrene	85-01-8	MKCS5188	99%	200.4 µg/mL	+/- 9.0294
8	Anthracene	120-12-7	MKCR0570	99%	200.4 µg/mL	+/- 9.0294
9	Fluoranthene	206-44-0	MKCQ4728	99%	200.8 µg/mL	+/- 9.0474
10	Pyrene	129-00-0	BCCK2592	99%	201.2 µg/mL	+/- 9.0655
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13	Benzo(b)fluoranthene	205-99-2	012013B	99%	200.4 µg/mL	+/- 9.0294
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18	Benzo(g,h,i)perylene	191-24-2	RP240105ECS	99%	200.8	µg/mL	+/- 9.0474

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Acetone/Toluene (50:50)
CAS # 67-64-1/108-88-3
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
100°C (hold 1 min.) to 330°C
@ 4°C/min. (hold 5 min.)

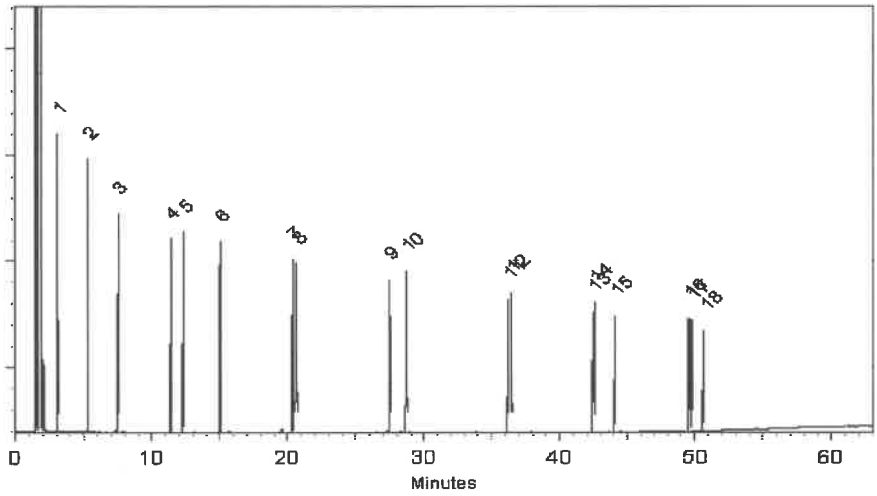
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
20 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Michael Maye - Operations Tech I **Date Mixed:** 09-May-2024 **Balance Serial #** 1128353505

Jennifer Pollino - Operations Tech III - ARM QC **Date Passed:** 13-May-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30543 **Lot No.:** A0211254

Description : NJEPH Aromatics Matrix Spike Mix

NJEPH Aromatics Matrix Spike Mix 200µg/mL, Acetone/Toluene (50:50), 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : April 30, 2030 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

P13437
2
P13452
Y.P.
07/16/24.

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2,3-Trimethylbenzene	526-73-8	8776.10-38	99%	200.0 µg/mL	+/- 9.0114
2	Naphthalene	91-20-3	STBL1057	99%	200.8 µg/mL	+/- 9.0474
3	2-Methylnaphthalene	91-57-6	STBK0259	96%	200.4 µg/mL	+/- 9.0316
4	Acenaphthylene	208-96-8	214935L31M	98%	200.3 µg/mL	+/- 9.0255
5	Acenaphthene	83-32-9	MKCR7169	99%	202.0 µg/mL	+/- 9.1015
6	Fluorene	86-73-7	10241100	99%	201.2 µg/mL	+/- 9.0655
7	Phenanthrene	85-01-8	MKCS5188	99%	200.4 µg/mL	+/- 9.0294
8	Anthracene	120-12-7	MKCR0570	99%	200.4 µg/mL	+/- 9.0294
9	Fluoranthene	206-44-0	MKCQ4728	99%	200.8 µg/mL	+/- 9.0474
10	Pyrene	129-00-0	BCCK2592	99%	201.2 µg/mL	+/- 9.0655
11	Benz(a)anthracene	56-55-3	I30012022BAA	99%	200.8 µg/mL	+/- 9.0474
12	Chrysene	218-01-9	RP231206RSR	99%	200.4 µg/mL	+/- 9.0294
13	Benzo(b)fluoranthene	205-99-2	012013B	99%	200.4 µg/mL	+/- 9.0294
14	Benzo(k)fluoranthene	207-08-9	012022K	99%	200.0 µg/mL	+/- 9.0114
15	Benzo(a)pyrene	50-32-8	O45GL	98%	200.7 µg/mL	+/- 9.0431
16	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	199.8 µg/mL	+/- 9.0033

17	Dibenz(a,h)anthracene	53-70-3	2-ASA-59-1	99%	200.0	µg/mL	+/-	9.0114
18	Benzo(g,h,i)perylene	191-24-2	RP240105ECS	99%	200.8	µg/mL	+/-	9.0474

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Acetone/Toluene (50:50)
CAS # 67-64-1/108-88-3
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
100°C (hold 1 min.) to 330°C
@ 4°C/min. (hold 5 min.)

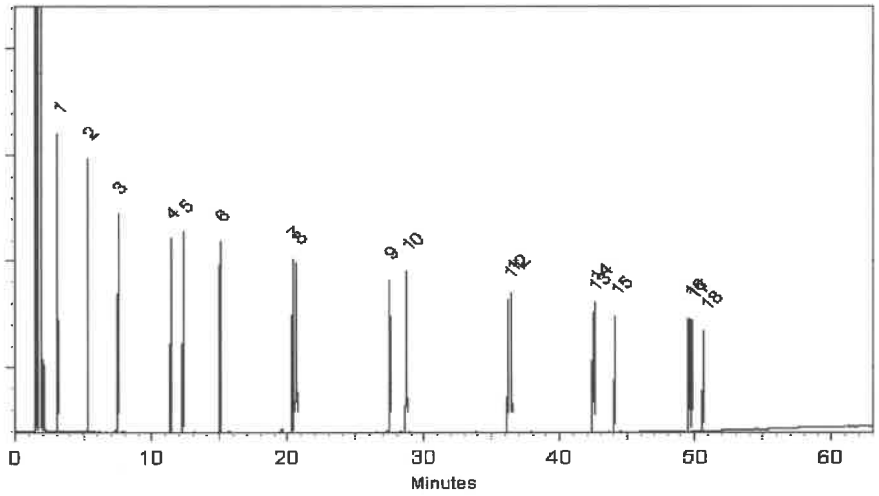
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
20 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Michael Maye - Operations Tech I **Date Mixed:** 09-May-2024 **Balance Serial #** 1128353505

Jennifer Pollino - Operations Tech III - ARM QC **Date Passed:** 13-May-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30543 **Lot No.:** A0211254

Description : NJEPH Aromatics Matrix Spike Mix

NJEPH Aromatics Matrix Spike Mix 200µg/mL, Acetone/Toluene (50:50), 5mL/ampul

P13437 & P13452 Y.P. 07/16/24.

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : April 30, 2030 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2,3-Trimethylbenzene	526-73-8	8776.10-38	99%	200.0 µg/mL	+/- 9.0114
2	Naphthalene	91-20-3	STBL1057	99%	200.8 µg/mL	+/- 9.0474
3	2-Methylnaphthalene	91-57-6	STBK0259	96%	200.4 µg/mL	+/- 9.0316
4	Acenaphthylene	208-96-8	214935L31M	98%	200.3 µg/mL	+/- 9.0255
5	Acenaphthene	83-32-9	MKCR7169	99%	202.0 µg/mL	+/- 9.1015
6	Fluorene	86-73-7	10241100	99%	201.2 µg/mL	+/- 9.0655
7	Phenanthrene	85-01-8	MKCS5188	99%	200.4 µg/mL	+/- 9.0294
8	Anthracene	120-12-7	MKCR0570	99%	200.4 µg/mL	+/- 9.0294
9	Fluoranthene	206-44-0	MKCQ4728	99%	200.8 µg/mL	+/- 9.0474
10	Pyrene	129-00-0	BCCK2592	99%	201.2 µg/mL	+/- 9.0655
11	Benz(a)anthracene	56-55-3	I30012022BAA	99%	200.8 µg/mL	+/- 9.0474
12	Chrysene	218-01-9	RP231206RSR	99%	200.4 µg/mL	+/- 9.0294
13	Benzo(b)fluoranthene	205-99-2	012013B	99%	200.4 µg/mL	+/- 9.0294
14	Benzo(k)fluoranthene	207-08-9	012022K	99%	200.0 µg/mL	+/- 9.0114
15	Benzo(a)pyrene	50-32-8	O45GL	98%	200.7 µg/mL	+/- 9.0431
16	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	199.8 µg/mL	+/- 9.0033

17	Dibenz(a,h)anthracene	53-70-3	2-ASA-59-1	99%	200.0	µg/mL	+/- 9.0114
18	Benzo(g,h,i)perylene	191-24-2	RP240105ECS	99%	200.8	µg/mL	+/- 9.0474

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Acetone/Toluene (50:50)
CAS # 67-64-1/108-88-3
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
100°C (hold 1 min.) to 330°C
@ 4°C/min. (hold 5 min.)

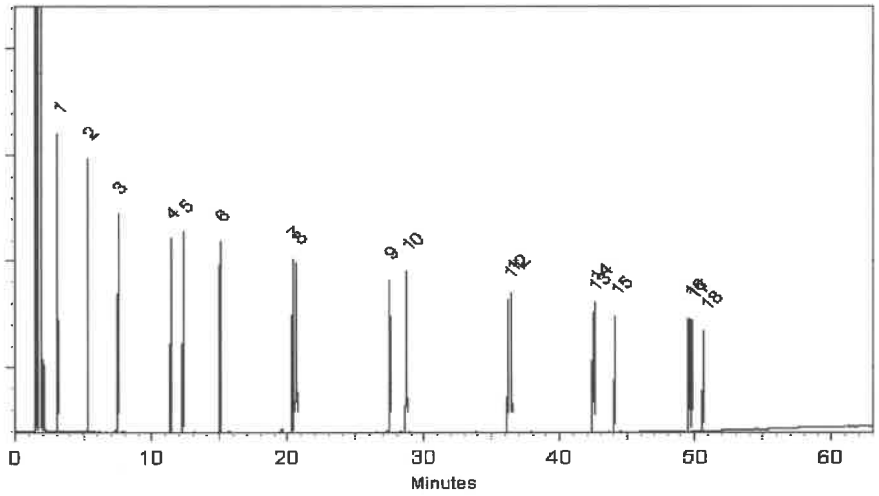
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
20 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Michael Maye - Operations Tech I **Date Mixed:** 09-May-2024 **Balance Serial #** 1128353505

Jennifer Pollino - Operations Tech III - ARM QC **Date Passed:** 13-May-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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Certificate of Analysis

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30543 **Lot No.:** A0207019

Description : NJEPH Aromatics Matrix Spike Mix

NJEPH Aromatics Matrix Spike Mix 200µg/mL, Acetone/Toluene (50:50), 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : December 31, 2029 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

P13453 → P13456 Y.P. 07/16/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2,3-Trimethylbenzene	526-73-8	8776.10-38	99%	200.6 µg/mL	+/- 9.0384
2	Naphthalene	91-20-3	STBL1057	99%	200.6 µg/mL	+/- 9.0384
3	2-Methylnaphthalene	91-57-6	STBK0259	96%	200.4 µg/mL	+/- 9.0299
4	Acenaphthylene	208-96-8	L10L	95%	200.7 µg/mL	+/- 9.0437
5	Acenaphthene	83-32-9	MKCR7169	99%	200.0 µg/mL	+/- 9.0114
6	Fluorene	86-73-7	10241100	99%	200.4 µg/mL	+/- 9.0294
7	Phenanthrene	85-01-8	MKCQ2033	99%	200.5 µg/mL	+/- 9.0330
8	Anthracene	120-12-7	MKCR0570	99%	200.7 µg/mL	+/- 9.0438
9	Fluoranthene	206-44-0	MKCQ4728	99%	200.6 µg/mL	+/- 9.0366
10	Pyrene	129-00-0	BCCG8479	98%	200.7 µg/mL	+/- 9.0449
11	Benz(a)anthracene	56-55-3	I20012022BAA	99%	200.8 µg/mL	+/- 9.0474
12	Chrysene	218-01-9	RP230601	99%	200.5 µg/mL	+/- 9.0330
13	Benzo(b)fluoranthene	205-99-2	022013B	99%	200.6 µg/mL	+/- 9.0384
14	Benzo(k)fluoranthene	207-08-9	012022K	99%	200.8 µg/mL	+/- 9.0456
15	Benzo(a)pyrene	50-32-8	O45GL	98%	200.6 µg/mL	+/- 9.0378
16	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	200.6 µg/mL	+/- 9.0400

17	Dibenz(a,h)anthracene	53-70-3	ER032211-01	99%	200.4	µg/mL	+/- 9.0276
18	Benzo(g,h,i)perylene	191-24-2	RP231003RSR	99%	200.5	µg/mL	+/- 9.0330

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Acetone/Toluene (50:50)
CAS # 67-64-1/108-88-3
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
100°C (hold 1 min.) to 330°C
@ 4°C/min. (hold 5 min.)

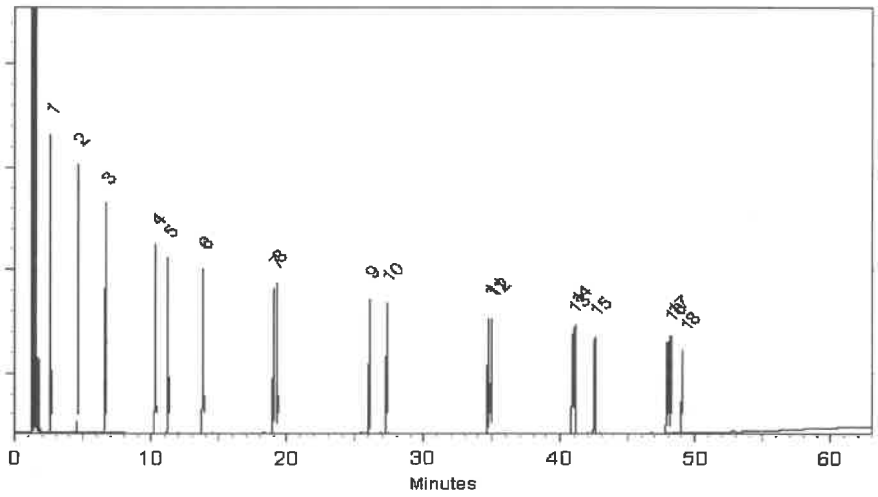
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
20 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Laith Clemente - Operations Technician I · **Date Mixed:** 25-Jan-2024 **Balance Serial #** 1128360905

Dillan Murphy - Operations Technician I **Date Passed:** 29-Jan-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

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  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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Certificate of Analysis

chromatographic plus

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Catalog No. : 30543 **Lot No.:** A0207019

Description : NJEPH Aromatics Matrix Spike Mix

NJEPH Aromatics Matrix Spike Mix 200µg/mL, Acetone/Toluene (50:50), 5mL/ampul

P13453 → P13456 Y.P. 07/16/24

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : December 31, 2029 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2,3-Trimethylbenzene	526-73-8	8776.10-38	99%	200.6 µg/mL	+/- 9.0384
2	Naphthalene	91-20-3	STBL1057	99%	200.6 µg/mL	+/- 9.0384
3	2-Methylnaphthalene	91-57-6	STBK0259	96%	200.4 µg/mL	+/- 9.0299
4	Acenaphthylene	208-96-8	L10L	95%	200.7 µg/mL	+/- 9.0437
5	Acenaphthene	83-32-9	MKCR7169	99%	200.0 µg/mL	+/- 9.0114
6	Fluorene	86-73-7	10241100	99%	200.4 µg/mL	+/- 9.0294
7	Phenanthrene	85-01-8	MKCQ2033	99%	200.5 µg/mL	+/- 9.0330
8	Anthracene	120-12-7	MKCR0570	99%	200.7 µg/mL	+/- 9.0438
9	Fluoranthene	206-44-0	MKCQ4728	99%	200.6 µg/mL	+/- 9.0366
10	Pyrene	129-00-0	BCCG8479	98%	200.7 µg/mL	+/- 9.0449
11	Benz(a)anthracene	56-55-3	I20012022BAA	99%	200.8 µg/mL	+/- 9.0474
12	Chrysene	218-01-9	RP230601	99%	200.5 µg/mL	+/- 9.0330
13	Benzo(b)fluoranthene	205-99-2	022013B	99%	200.6 µg/mL	+/- 9.0384
14	Benzo(k)fluoranthene	207-08-9	012022K	99%	200.8 µg/mL	+/- 9.0456
15	Benzo(a)pyrene	50-32-8	O45GL	98%	200.6 µg/mL	+/- 9.0378
16	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	200.6 µg/mL	+/- 9.0400

17	Dibenz(a,h)anthracene	53-70-3	ER032211-01	99%	200.4	µg/mL	+/- 9.0276
18	Benzo(g,h,i)perylene	191-24-2	RP231003RSR	99%	200.5	µg/mL	+/- 9.0330

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Acetone/Toluene (50:50)
CAS # 67-64-1/108-88-3
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
100°C (hold 1 min.) to 330°C
@ 4°C/min. (hold 5 min.)

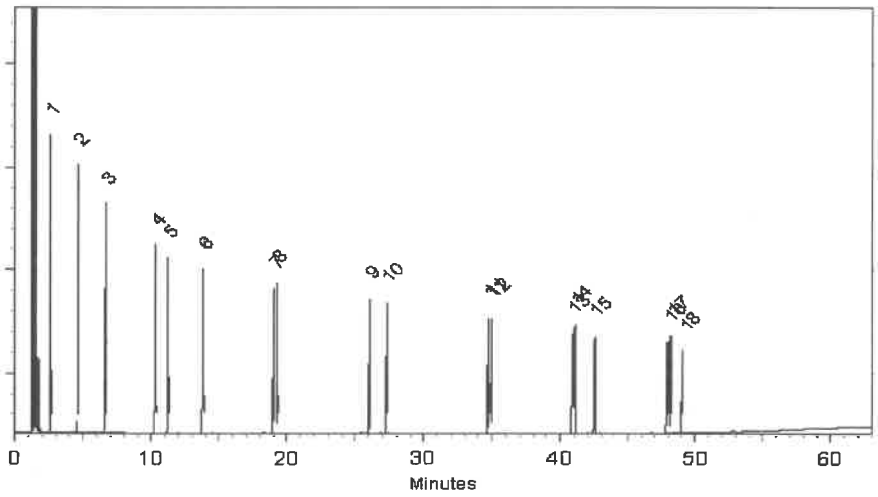
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
20 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Laith Clemente - Operations Technician I · **Date Mixed:** 25-Jan-2024 **Balance Serial #** 1128360905

Dillan Murphy - Operations Technician I **Date Passed:** 29-Jan-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

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Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

Certificate of Analysis

chromatographic plus

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30543 **Lot No.:** A0207019

Description : NJEPH Aromatics Matrix Spike Mix

NJEPH Aromatics Matrix Spike Mix 200µg/mL, Acetone/Toluene (50:50), 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : December 31, 2029 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

P13453 → P13456 Y.P. 07/16/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2,3-Trimethylbenzene	526-73-8	8776.10-38	99%	200.6 µg/mL	+/- 9.0384
2	Naphthalene	91-20-3	STBL1057	99%	200.6 µg/mL	+/- 9.0384
3	2-Methylnaphthalene	91-57-6	STBK0259	96%	200.4 µg/mL	+/- 9.0299
4	Acenaphthylene	208-96-8	L10L	95%	200.7 µg/mL	+/- 9.0437
5	Acenaphthene	83-32-9	MKCR7169	99%	200.0 µg/mL	+/- 9.0114
6	Fluorene	86-73-7	10241100	99%	200.4 µg/mL	+/- 9.0294
7	Phenanthrene	85-01-8	MKCQ2033	99%	200.5 µg/mL	+/- 9.0330
8	Anthracene	120-12-7	MKCR0570	99%	200.7 µg/mL	+/- 9.0438
9	Fluoranthene	206-44-0	MKCQ4728	99%	200.6 µg/mL	+/- 9.0366
10	Pyrene	129-00-0	BCCG8479	98%	200.7 µg/mL	+/- 9.0449
11	Benz(a)anthracene	56-55-3	I20012022BAA	99%	200.8 µg/mL	+/- 9.0474
12	Chrysene	218-01-9	RP230601	99%	200.5 µg/mL	+/- 9.0330
13	Benzo(b)fluoranthene	205-99-2	022013B	99%	200.6 µg/mL	+/- 9.0384
14	Benzo(k)fluoranthene	207-08-9	012022K	99%	200.8 µg/mL	+/- 9.0456
15	Benzo(a)pyrene	50-32-8	O45GL	98%	200.6 µg/mL	+/- 9.0378
16	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	200.6 µg/mL	+/- 9.0400

17	Dibenz(a,h)anthracene	53-70-3	ER032211-01	99%	200.4	µg/mL	+/- 9.0276
18	Benzo(g,h,i)perylene	191-24-2	RP231003RSR	99%	200.5	µg/mL	+/- 9.0330

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Acetone/Toluene (50:50)
CAS # 67-64-1/108-88-3
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
100°C (hold 1 min.) to 330°C
@ 4°C/min. (hold 5 min.)

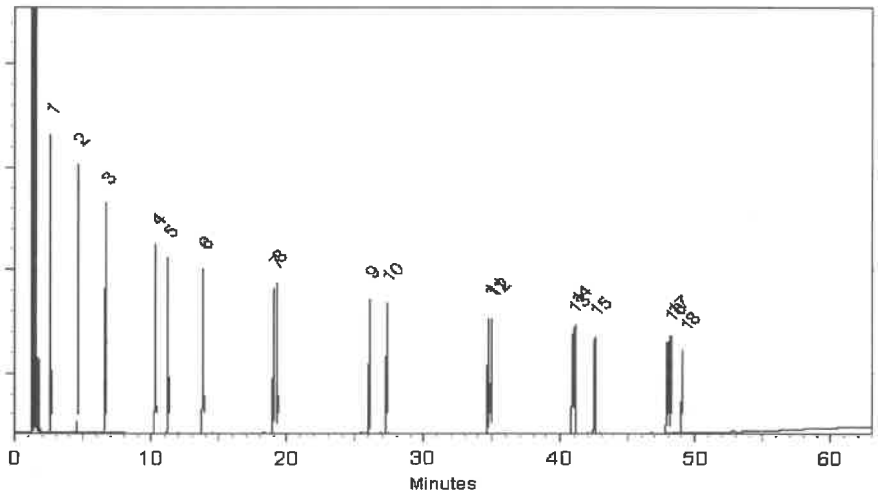
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Det. Temp:
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Det. Type:
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Split Vent:
20 ml/min.

Inj. Vol
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Laith Clemente - Operations Technician I · **Date Mixed:** 25-Jan-2024 **Balance Serial #** 1128360905

Dillan Murphy - Operations Technician I **Date Passed:** 29-Jan-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
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Manufacturing Notes:

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Handling Notes:

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NJEPH Aromatics Matrix Spike Mix 200µg/mL, Acetone/Toluene (50:50), 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : December 31, 2029 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

P13453 → P13456 Y.P. 07/16/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
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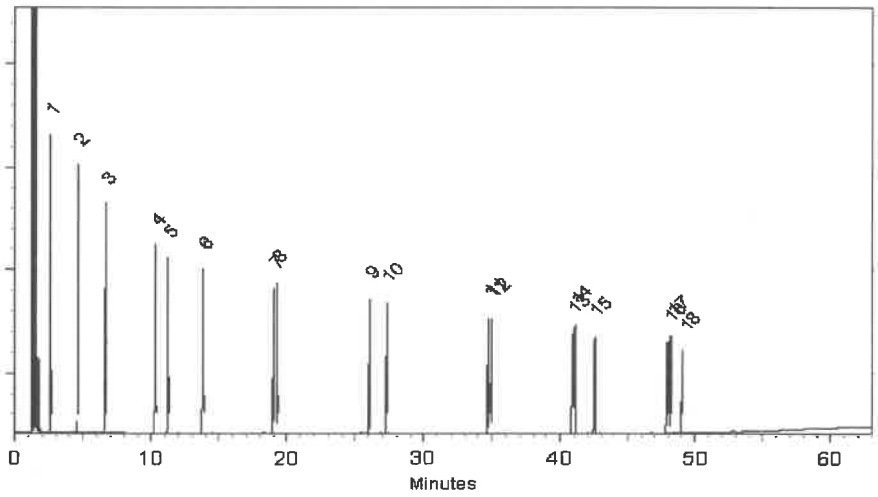
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
20 ml/min.

Inj. Vol
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Laith Clemente - Operations Technician I · **Date Mixed:** 25-Jan-2024 **Balance Serial #** 1128360905

Dillan Murphy - Operations Technician I **Date Passed:** 29-Jan-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

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Manufacturing Notes:

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Handling Notes:

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SHIPPING DOCUMENTS

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Packing List

Date	Order #
10/21/2024	318989

6390 Joyce Dr., #100
Golden, CO 80403

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Fax: +1-303-940-0043
info@phenova.com
www.phenova.com

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www.phenova.com/home/termsofsale

Ship To

Alliance Tech Group - Newark
ATTN: Sohil Jodhani
284 Sheffield St., #1
Mountainside, NJ 07092
USA

Customer PO #	Terms	PT Acct #	Customer #	Ship Via	F.O.B.
240903-01	Net 30	ZCM-100	1500470	FedEx 2nd Day	Golden, CO

Qty Ordered	Qty Shipped	Qty Backorder	Part Number	Part Description	Study Number	Lot Number
1	1	0	PT-MET-SOIL	SOIL/HW Trace Metals	HW1024	7098-04
1	1	0	PT-CR6-SOIL	SOIL/HW Hexavalent Chromium ✓	HW1024	7098-05D
1	1	0	PT-CN-SOIL	SOIL/HW Cyanide	HW1024	7098-06
1	1	0	PT-CORR-SOIL	SOIL/HW Corrosivity/pH ✓	HW1024	7098-11
1	1	0	PT-FP-SOIL	SOIL/HW Flash Point	HW1024	7098-10
1	1	0	PT-AN-SOIL	SOIL/HW Anions ✓	HW1024	7098-08
1	1	0	PT-NUT-SOIL	SOIL/HW Nutrients ✓	HW1024	7098-09B
1	1	0	PT-SOL-SOIL	SOIL/HW Solids	HW1024	7098-31
1	1	0	PT-NO2-SOIL	SOIL/HW Nitrite as N	HW1024	7098-71
1	1	0	PT-GAS-SOIL	SOIL/HW Gasoline	HW1024	7098-96
1	1	0	PT-DIES-SOIL	SOIL/HW Diesel in Soil	HW1024	7098-100
1	1	0	PT-OGR-SOIL	SOIL/HW Oil and Grease ✓	HW1024	7098-94
1	1	0	PT-VOA-SOIL	SOIL/HW Volatiles	HW1024	7098-12
1	1	0	PT-BNA-SOIL	SOIL/HW BNAs	HW1024	7098-13
1	1	0	PT-PEST-SOIL	SOIL/HW Pesticides	HW1024	7098-14
1	1	0	PT-CHLR-SOIL	SOIL/HW Chlordane	HW1024	7098-15
1	1	0	PT-TXP-SOIL	SOIL/HW Toxaphene	HW1024	7098-16
1	1	0	PT-PCB-SOIL	SOIL/HW PCBs	HW1024	7098-17
1	1	0	PT-PCBO-SOIL	SOIL/HW PCBs in Oil	HW1024	7098-88
1	1	0	PT-HERB-SOIL	SOIL/HW Herbicides	HW1024	7098-18
1	1	0	PT-PAH-SOIL	SOIL/HW PAHs	HW1024	7098-22
1	1	0	PT-TRIAZINE-SOIL	SOIL/HW Triazine Pesticides	HW1024	7098-106

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Golden, CO 80403

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Qty Ordered	Qty Shipped	Qty Backorder	Part Number	Part Description	Study Number	Lot Number
1	1	0	PT-NJEPH-SOIL	NJ EPH in SOIL ✓✓	HW1024	7098-105

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