284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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DATA PACKAGE

GC SEMI-VOLATILES

PROJECT NAME : RFP 872

WESTON SOLUTIONS, INC.

1090 King Georges Post Road

Suite 201

Edison, NJ - 08837-3703

Phone No: 732-585-4410

ORDER ID : P4620

ATTENTION : Smita Sumbaly

Laboratory Certification ID # 20012

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Cover Page

Order ID : P4620

Project ID : RFP 872

Client : Weston Solutions, Inc.

Lab Sample Number	Client Sample Number
P4620-01	P001-CF06-01
P4620-02	P001-CF06-01
P4620-03	P001-CF07-01
P4620-04	P001-CF07-01
P4620-05	P001-CF08-01
P4620-06	P001-CF08-01
P4620-07	P001-CF09-01
P4620-08	P001-CF09-01
P4620-09	P001-CF10-01
P4620-10	P001-CF10-01
P4620-11	P001-CF11-01
P4620-12	P001-CF11-01
P4620-13	P001-CF12-01
P4620-14	P001-CF12-01
P4620-15	P001-CF13-01
P4620-16	P001-CF13-01
P4620-17	P001-CF14-01
P4620-18	P001-CF14-01
P4620-19	P001-CF15-01
P4620-20	P001-CF15-01
P4620-22	P001-CF16-01
P4620-23	P001-CF16-01MS
P4620-24	P001-CF16-01MSD
P4620-25	P001-CF16-01
P4620-26	P001-CF16-01MS
P4620-27	P001-CF16-01MSD
P4620-29	P001-CF16-02
P4620-30	P001-CF16-02

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: 11/12/2024

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

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CASE NARRATIVE

Weston Solutions, Inc.
Project Name: RFP 872
Project # N/A
Chemtech Project # P4620
Test Name: EPH

A. Number of Samples and Date of Receipt:
28 Solid samples were received on 10/29/2024.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: EPH, SPLP Extraction and SPLP PCB. 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 were performed on instrument FID_G. The column is RXI-1MS which is 20 meters, 0.18mm ID, 0.18 um df, catalog 13302.The analysis were performed on instrument FID_F. The column is RXI-1MS which is 20 meters, 0.18mm ID, 0.18 um df, catalog 13302.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 recoveries met the requirements for all compounds .
The MSD recoveries met the acceptable requirements .
The RPD met criteria .
The Blank Spike met requirements for all samples .
The Blank Spike Duplicate met requirements for all samples .
The Blank analysis did not indicate the presence of lab contamination.
The Initial Calibration met the requirements .
The Continuous Calibration met the requirements .

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

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F. Calculation for Concentration in Water Samples:

$$C\ (ug/L) = \frac{(A)\ (D)\ (Ve)}{CF\ (Vs)}$$

Where:
C = Concentration of each compound or hydrocarbon range, ug/L
A = Area response of each compound or carbon range to be measured
D = Dilution Factor
Vs = Volume of sample extracted, mL
Ve = Final volume of extract, uL
CF = Calibration factor of each compound or carbon range for each fraction

G. Calculation for Concentration in Soil Samples:

$$C\ (ug/g) = \frac{(A)\ (D)\ (Ve)}{CF\ (S)}$$

Where:
C = Concentration of each compound or hydrocarbon range, ug/g (dry weight basis)
A = Area response of each compound or carbon range to be measured
D = Dilution Factor
Ve = Final volume of extract, uL
CF = Calibration factor of each compound or carbon range for each fraction
S = Dry sample weight, mg

Total EPH concentration = Total of 4 Aromatic Carbon Ranges and 4 Aliphatic Carbon Ranges.

H. 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_____

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DATA REPORTING QUALIFIERS- ORGANIC

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

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

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GC ANALYSIS CONFORMANCE/NON-CONFORMANCE SUMMARY

CHEMTECH PROJECT NUMBER: P4620 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 recoveries met the requirements for all compounds . The MSD recoveries met the acceptable requirements . The Blank Spike met requirements for all samples . The Blank Spike Duplicate met requirements for all samples . The RPD met criteria .			✓
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:			✓

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GC ANALYSIS CONFORMANCE/NON-CONFORMANCE SUMMARY (CONTINUED)

		NA	NO	YES
9.	Analysis Holding Time Met			✓

If not met, list those compounds and their recoveries which fall outside the acceptable range.

ADDITIONAL COMMENTS:

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

_____ _____

QA REVIEW Date

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APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: P4620

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

QA Review Signature: SOHIL JODHANI **Date:** 11/12/2024

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LAB CHRONICLE

OrderID:	P4620	**OrderDate:**	10/29/2024 3:36:00 PM
Client:	Weston Solutions, Inc.	**Project:**	RFP 872
Contact:	Smita Sumbaly	**Location:**	K41

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P4620-01	**P001-CF06-01**	**Solid**			**10/29/24**			**10/29/24**
			EPH	NJEPH		11/03/24	11/04/24	
P4620-02	**P001-CF06-01**	**Water**			**10/29/24**			**10/29/24**
			EPH	NJEPH		11/03/24	11/04/24	
			SPLP PCB	8082A		10/31/24	10/31/24	
P4620-03	**P001-CF07-01**	**Solid**			**10/29/24**			**10/29/24**
			EPH	NJEPH		11/03/24	11/04/24	
P4620-04	**P001-CF07-01**	**Water**			**10/29/24**			**10/29/24**
			EPH	NJEPH		11/03/24	11/04/24	
			SPLP PCB	8082A		10/31/24	10/31/24	
P4620-05	**P001-CF08-01**	**Solid**			**10/29/24**			**10/29/24**
			EPH	NJEPH		11/03/24	11/04/24	
P4620-06	**P001-CF08-01**	**Water**			**10/29/24**			**10/29/24**
			EPH	NJEPH		11/03/24	11/04/24	
			SPLP PCB	8082A		10/31/24	10/31/24	
P4620-07	**P001-CF09-01**	**Solid**			**10/29/24**			**10/29/24**
			EPH	NJEPH		11/03/24	11/04/24	
P4620-08	**P001-CF09-01**	**Water**			**10/29/24**			**10/29/24**
			EPH	NJEPH		11/03/24	11/04/24	
			SPLP PCB	8082A		10/31/24	10/31/24	
P4620-09	**P001-CF10-01**	**Solid**			**10/29/24**			**10/29/24**
			EPH	NJEPH		11/03/24	11/04/24	
P4620-10	**P001-CF10-01**	**Water**			**10/29/24**			**10/29/24**
			EPH	NJEPH		11/03/24	11/04/24	

LAB CHRONICLE

			SPLP PCB	8082A		10/31/24	10/31/24
P4620-11	**P001-CF11-01**	**Solid**			**10/29/24**		**10/29/24**
			EPH	NJEPH		11/03/24	11/04/24
P4620-12	**P001-CF11-01**	**Water**			**10/29/24**		**10/29/24**
			EPH	NJEPH		11/03/24	11/04/24
			SPLP PCB	8082A		10/31/24	10/31/24
P4620-13	**P001-CF12-01**	**Solid**			**10/29/24**		**10/29/24**
			EPH	NJEPH		11/03/24	11/04/24
			EPH	NJEPH		11/03/24	11/05/24
P4620-14	**P001-CF12-01**	**Water**			**10/29/24**		**10/29/24**
			EPH	NJEPH		11/03/24	11/04/24
			SPLP PCB	8082A		10/31/24	10/31/24
P4620-15	**P001-CF13-01**	**Solid**			**10/29/24**		**10/29/24**
			EPH	NJEPH		11/03/24	11/04/24
P4620-16	**P001-CF13-01**	**Water**			**10/29/24**		**10/29/24**
			EPH	NJEPH		11/03/24	11/04/24
			SPLP PCB	8082A		10/31/24	10/31/24
P4620-17	**P001-CF14-01**	**Solid**			**10/29/24**		**10/29/24**
			EPH	NJEPH		11/03/24	11/04/24
P4620-18	**P001-CF14-01**	**Water**			**10/29/24**		**10/29/24**
			EPH	NJEPH		11/03/24	11/04/24
			SPLP PCB	8082A		10/31/24	10/31/24
P4620-19	**P001-CF15-01**	**Solid**			**10/29/24**		**10/29/24**
			EPH	NJEPH		11/03/24	11/04/24
P4620-20	**P001-CF15-01**	**Water**			**10/29/24**		**10/29/24**
			EPH	NJEPH		11/03/24	11/04/24
			SPLP PCB	8082A		10/31/24	10/31/24
P4620-22	**P001-CF16-01**	**Solid**			**10/29/24**		**10/29/24**
			EPH	NJEPH		11/03/24	11/04/24
P4620-25	**P001-CF16-01**	**Water**			**10/29/24**		**10/29/24**
			EPH	NJEPH		11/03/24	11/04/24

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LAB CHRONICLE

			SPLP PCB	8082A		10/31/24	10/31/24	
P4620-29	**P001-CF16-02**	**Solid**			**10/29/24**			**10/29/24**
			EPH	NJEPH		11/03/24	11/05/24	
P4620-30	**P001-CF16-02**	**Water**			**10/29/24**			**10/29/24**
			EPH	NJEPH		11/03/24	11/04/24	
			SPLP PCB	8082A		10/31/24	10/31/24	

QC SUMMARY

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SOIL EPH SURROGATE RECOVERY

Lab Name: CHEMTECH Contract: ROYF02

Lab Code: CHEM CASE No.: P4620 SAS No.: P4620 SDG No.: P4620

Run Number: FC110424AL

Client SAMPLE NO.	1-chlorooctadecane (SURR)			TOT OUT
P001-CF06-01	70			0
P001-CF07-01	80			0
P001-CF08-01	66			0
P001-CF09-01	92			0
P001-CF10-01	74			0
P001-CF11-01	85			0
P001-CF12-01	76			0
P001-CF13-01	75			0
P001-CF14-01	74			0
P001-CF15-01	62			0
P001-CF16-01	86			0
P001-CF16-01MS	83			0
P001-CF16-01MSD	83			0
P001-CF16-02	53			0
PB164618BL	65			0
PB164618BS	79			0
PB164618BSD	80			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: ROYF02

Lab Code: CHEM CASE No.: P4620 SAS No.: P4620 SDG No.: P4620

Run Number: FD110424AR

Client SAMPLE NO.	2-Bromonaphthalene (SURR)	2-Flurobiphenyl (SURR)	ortho-Terphenyl (SURR)	TOT OUT
P001-CF06-01	117	114	59	0
P001-CF07-01	96	97	50	0
P001-CF08-01	93	88	54	0
P001-CF09-01	120	108	101	0
P001-CF10-01	89	89	55	0
P001-CF11-01	99	95	49	0
P001-CF12-01	82	76	64	0
P001-CF13-01	93	92	54	0
P001-CF14-01	96	99	52	0
P001-CF15-01	103	104	54	0
P001-CF16-01	85	87	70	0
P001-CF16-01MS	94	95	65	0
P001-CF16-01MSD	94	96	65	0
P001-CF16-02	109	111	54	0
PB164618BL	106	105	89	0
PB164618BS	91	93	83	0
PB164618BSD	92	94	84	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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Fax : 908 789 8922

SOIL EPH SURROGATE RECOVERY

Lab Name: CHEMTECH Contract: ROYF02

Lab Code: CHEM CASE No.: P4620 SAS No.: P4620 SDG No.: P4620

Run Number: FF110424AR

Client SAMPLE NO.	2-Bromonaphthalene (SURR)	2-Flurobiphenyl (SURR)	ortho-Terphenyl (SURR)	TOT OUT
P001-CF06-01	98	89	98	0
P001-CF07-01	101	100	99	0
P001-CF08-01	103	102	102	0
P001-CF09-01	114	113	114	0
P001-CF10-01	101	99	99	0
P001-CF11-01	88	88	88	0
P001-CF12-01	95	65	97	0
P001-CF13-01	96	95	93	0
P001-CF14-01	94	93	93	0
P001-CF15-01	112	111	113	0
P001-CF16-01	114	109	105	0
P001-CF16-01MS	89	85	83	0
P001-CF16-01MSD	89	86	83	0
P001-CF16-02	117	110	103	0
PB164637BL	90	90	74	0
PB164637BS	98	99	79	0
PB164637TB	95	95	79	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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Fax : 908 789 8922

SOIL EPH SURROGATE RECOVERY

Lab Name: CHEMTECH Contract: ROYF02

Lab Code: CHEM CASE No.: P4620 SAS No.: P4620 SDG No.: P4620

Run Number: FG110424AL

Client SAMPLE NO.	1-chlorooctadecane (SURR)			TOT OUT
P001-CF06-01	112			0
P001-CF07-01	89			0
P001-CF08-01	120			0
P001-CF09-01	112			0
P001-CF10-01	92			0
P001-CF11-01	95			0
P001-CF12-01	124			0
P001-CF13-01	85			0
P001-CF14-01	87			0
P001-CF15-01	85			0
P001-CF16-01	94			0
P001-CF16-01MS	106			0
P001-CF16-01MSD	106			0
P001-CF16-02	117			0
PB164637BL	80			0
PB164637BS	99			0
PB164637TB	87			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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SOLID EPH MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** Weston Solutions, Inc.

Lab Code: CHEM **Cas No:** P4620 **SAS No :** P4620 **SDG No:** P4620

Sample No : P4620-23 **Datafile:** FC067616.D

Client ID : P001-CF16-01MS

COMPOUND	SPIKE ADDED mg/kg	SAMPLE CONCENTRATION mg/kg	MS/MSD CONCENTRATION mg/kg	% REC	Qual	QC LIMITS
Aliphatic C9-C12	10.4	0	6.75	65		(40-140)
Aliphatic C12-C16	6.9	0	6.04	87		(40-140)
Aliphatic C16-C21	10.4	0	9.55	92		(40-140)
Aliphatic C21-C28	13.9	0	12.8	92		(40-140)
Aliphatic C28-C40	20.8	0	22.1	106		(40-140)

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SOLID EPH MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** Weston Solutions, Inc.

Lab Code: CHEM **Cas No:** P4620 **SAS No :** P4620 **SDG No:** P4620

Sample No : P4620-24 **Datafile:** FC067617.D

Client ID : P001-CF16-01MSD

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	10.4	0	6.73	65		0.31 |	(40-140)	25
Aliphatic C12-C16	7	0	6.05	87		0.11 |	(40-140)	25
Aliphatic C16-C21	10.4	0	9.56	92		0.11 |	(40-140)	25
Aliphatic C21-C28	13.9	0	12.8	92		0 |	(40-140)	25
Aliphatic C28-C40	20.8	0	22.1	106		0 |	(40-140)	25

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SOLID EPH MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** Weston Solutions, Inc.

Lab Code: CHEM **Cas No:** P4620 **SAS No :** P4620 **SDG No:** P4620

Sample No : P4620-23 **Datafile:** FD048653.D

Client ID : P001-CF16-01MS

COMPOUND	SPIKE ADDED mg/kg	SAMPLE CONCENTRATION mg/kg	MS/MSD CONCENTRATION mg/kg	% REC	Qual	QC LIMITS
Aromatic C10-C12	6.9	0	3.98	57		(40-140)
Aromatic C12-C16	10.4	0	8.15	78		(40-140)
Aromatic C16-C21	17.4	0	15.4	89		(40-140)
Aromatic C21-C36	27.8	0	24.8	89		(40-140)

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SOLID EPH MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** Weston Solutions, Inc.

Lab Code: CHEM **Cas No:** P4620 **SAS No :** P4620 **SDG No:** P4620

Sample No : P4620-24 **Datafile:** FD048654.D

Client ID : P001-CF16-01MSD

COMPOUND	SPIKE ADDED mg/kg	SAMPLE CONCENTRATION mg/kg	MS/MSD CONCENTRATION mg/kg	% REC	Qual	RPD |	QC LIMITS	QC Limit Of RPD
Aromatic C10-C12	7	0	3.97	57		0.18 |	(40-140)	25
Aromatic C12-C16	10.4	0	8.24	79		1.02 |	(40-140)	25
Aromatic C16-C21	17.4	0	15.4	89		0.11 |	(40-140)	25
Aromatic C21-C36	27.8	0	25.1	90		1.22 |	(40-140)	25

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WATER EPH MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** Weston Solutions, Inc.

Lab Code: CHEM **Cas No:** P4620 **SAS No :** P4620 **SDG No:** P4620

Sample No : P4620-26 **Datafile:** FF014917.D

Client ID : P001-CF16-01MS

COMPOUND	SPIKE ADDED ug/l	SAMPLE CONCENTRATION ug/l	MS/MSD CONCENTRATION ug/l	% REC	Qual	QC LIMITS
Aromatic C10-C12	200	0	155	78		(40-140)
Aromatic C12-C16	300	0	250	83		(40-140)
Aromatic C16-C21	500	43.7	444	80		(40-140)
Aromatic C21-C36	800	0	637	80		(40-140)

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WATER EPH MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** Weston Solutions, Inc.

Lab Code: CHEM **Cas No:** P4620 **SAS No :** P4620 **SDG No:** P4620

Sample No : P4620-27 **Datafile:** FF014918.D

Client ID : P001-CF16-01MSD

COMPOUND	SPIKE ADDED ug/l	SAMPLE CONCENTRATION ug/l	MS/MSD CONCENTRATION ug/l	% REC	Qual	RPD |	QC LIMITS	QC Limit Of RPD
Aromatic C10-C12	200	0	154	77		0.65 |	(40-140)	25
Aromatic C12-C16	300	0	250	83		0 |	(40-140)	25
Aromatic C16-C21	500	43.7	446	80		0.5 |	(40-140)	25
Aromatic C21-C36	800	0	644	80		1.12 |	(40-140)	25

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WATER EPH MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** Weston Solutions, Inc.

Lab Code: CHEM **Cas No:** P4620 **SAS No :** P4620 **SDG No:** P4620

Sample No : P4620-26 **Datafile:** FG014647.D

Client ID : P001-CF16-01MS

COMPOUND	SPIKE ADDED ug/l	SAMPLE CONCENTRATION ug/l	MS/MSD CONCENTRATION ug/l	% REC	Qual	QC LIMITS
Aliphatic C9-C12	300	0	243	81		(40-140)
Aliphatic C12-C16	200	0	191	96		(40-140)
Aliphatic C16-C21	300	0	282	94		(40-140)
Aliphatic C21-C28	400	0	347	87		(40-140)
Aliphatic C28-C40	600	0	577	96		(40-140)

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WATER EPH MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** Weston Solutions, Inc.

Lab Code: CHEM **Cas No:** P4620 **SAS No :** P4620 **SDG No:** P4620

Sample No : P4620-27 **Datafile:** FG014648.D

Client ID : P001-CF16-01MSD

COMPOUND	SPIKE ADDED ug/l	SAMPLE CONCENTRATION ug/l	MS/MSD CONCENTRATION ug/l	% REC	Qual	RPD |	QC LIMITS	QC Limit Of RPD
Aliphatic C9-C12	300	0	244	81		0.37 |	(40-140)	25
Aliphatic C12-C16	200	0	192	96		0.52 |	(40-140)	25
Aliphatic C16-C21	300	0	281	94		0.32 |	(40-140)	25
Aliphatic C21-C28	400	0	345	86		0.69 |	(40-140)	25
Aliphatic C28-C40	600	0	579	96		0.31 |	(40-140)	25

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SOLID EPH LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** Weston Solutions, Inc.

Lab Code: CHEM **Cas No:** P4620 **SAS No :** P4620 **SDG No:** P4620

Sample No : PB164618BS **Datafile:** FC067622.D

Client ID : PB164618BS

COMPOUND	SPIKE ADDED mg/kg	LCS/LCSD CONCENTRATION mg/kg	% REC	Qual	QC LIMITS
Aliphatic C9-C12	10	5.27	53		(40-140)
Aliphatic C12-C16	6.7	5.13	77		(40-140)
Aliphatic C16-C21	10	8.80	88		(40-140)
Aliphatic C21-C28	13.3	12.0	90		(40-140)
Aliphatic C28-C40	20.0	19.1	96		(40-140)

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SOLID EPH LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** Weston Solutions, Inc.

Lab Code: CHEM **Cas No:** P4620 **SAS No :** P4620 **SDG No:** P4620

Sample No : PB164618BSD **Datafile:** FC067626.D

Client ID : PB164618BSD

COMPOUND	SPIKE ADDED mg/kg	LCS/LCSD CONCENTRATION mg/kg	% REC	Qual	RPD |	QC LIMITS	QC Limit Of RPD
Aliphatic C9-C12	10.0	5.35	54		1.4|	(40-140)	50
Aliphatic C12-C16	6.7	5.19	78		1.1|	(40-140)	50
Aliphatic C16-C21	10.0	8.93	89		1.4|	(40-140)	50
Aliphatic C21-C28	13.3	12.2	92		1.6|	(40-140)	50
Aliphatic C28-C40	20.0	19.3	96		0.97|	(40-140)	50

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SOLID EPH LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** Weston Solutions, Inc.

Lab Code: CHEM **Cas No:** P4620 **SAS No :** P4620 **SDG No:** P4620

Sample No : PB164618BS **Datafile:** FD048659.D

Client ID : PB164618BS

COMPOUND	SPIKE ADDED mg/kg	LCS/LCSD CONCENTRATION mg/kg	% REC	Qual	QC LIMITS
Aromatic C10-C12	6.7	3.35	50		(40-140)
Aromatic C12-C16	10	6.58	66		(40-140)
Aromatic C16-C21	16.7	13.2	79		(40-140)
Aromatic C21-C36	26.6	21.1	79		(40-140)

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SOLID EPH LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** Weston Solutions, Inc.

Lab Code: CHEM **Cas No:** P4620 **SAS No :** P4620 **SDG No:** P4620

Sample No : PB164618BSD **Datafile:** FD048663.D

Client ID : PB164618BSD

COMPOUND	SPIKE ADDED mg/kg	LCS/LCSD CONCENTRATION mg/kg	% REC	Qual	RPD |	QC LIMITS	QC Limit Of RPD
Aromatic C10-C12	6.7	3.39	51		1.1|	(40-140)	50
Aromatic C12-C16	10.0	6.68	67		1.4|	(40-140)	50
Aromatic C16-C21	16.7	13.3	80		0.66|	(40-140)	50
Aromatic C21-C36	26.7	21.4	80		1.4|	(40-140)	50

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WATER EPH LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** Weston Solutions, Inc.

Lab Code: CHEM **Cas No:** P4620 **SAS No :** P4620 **SDG No:** P4620

Sample No : PB164637BS **Datafile:** FF014921.D

Client ID : PB164637BS

COMPOUND	SPIKE ADDED ug/l	LCS/LCSD CONCENTRATION ug/l	% REC	Qual	QC LIMITS
Aromatic C10-C12	200	113	56		(40-140)
Aromatic C12-C16	300	201	67		(40-140)
Aromatic C16-C21	500	364	73		(40-140)
Aromatic C21-C36	800	587	73		(40-140)

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WATER EPH LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** Weston Solutions, Inc.

Lab Code: CHEM **Cas No:** P4620 **SAS No :** P4620 **SDG No:** P4620

Sample No : PB164637BS **Datafile:** FG014651.D

Client ID : PB164637BS

COMPOUND	SPIKE ADDED ug/l	LCS/LCSD CONCENTRATION ug/l	% REC	Qual	QC LIMITS
Aliphatic C9-C12	300	168	56		(40-140)
Aliphatic C12-C16	200	153	76		(40-140)
Aliphatic C16-C21	300	251	84		(40-140)
Aliphatic C21-C28	400	320	80		(40-140)
Aliphatic C28-C40	600	505	84		(40-140)

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4B

METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB164618BL

Lab Name: CHEMTECH Contract: ROYF02

Lab Code: CHEM Case No.: P4620 SAS No.: P4620 SDG NO.: P4620

Instrument ID: FID_C Lab Sample ID: PB164618BL

Matrix: (soil/water) Solid Date Extracted: 11/3/2024 8:45:00 A

Level: (low/med) low

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

EPA SAMPLE NO.	LAB SAMPLE ID
PB164618BS	PB164618BS
P001-CF06-01	P4620-01
PB164618BSD	PB164618BSD
P001-CF09-01	P4620-07
P001-CF10-01	P4620-09
P001-CF11-01	P4620-11
P001-CF12-01	P4620-13
P001-CF07-01	P4620-03
P001-CF08-01	P4620-05
P001-CF13-01	P4620-15
P001-CF14-01	P4620-17
P001-CF15-01	P4620-19
P001-CF16-01	P4620-22
P001-CF16-01MS	P4620-23
P001-CF16-01MSD	P4620-24
P001-CF16-02	P4620-29

COMMENTS:

Form IV

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4B

METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB164637BL

Lab Name: CHEMTECH Contract: ROYF02

Lab Code: CHEM Case No.: P4620 SAS No.: P4620 SDG NO.: P4620

Instrument ID: FID_C Lab Sample ID: PB164637BL

Matrix: (soil/water) Water Date Extracted: 11/3/2024 8:20:00 A

Level: (low/med) low

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

EPA SAMPLE NO.	LAB SAMPLE ID
PB164637BS	PB164637BS
P001-CF06-01	P4620-02
P001-CF13-01	P4620-16
P001-CF14-01	P4620-18
P001-CF15-01	P4620-20
P001-CF16-01	P4620-25
P001-CF16-01MS	P4620-26
P001-CF16-01MSD	P4620-27
P001-CF16-02	P4620-30
P001-CF07-01	P4620-04
P001-CF08-01	P4620-06
P001-CF09-01	P4620-08
P001-CF10-01	P4620-10
P001-CF11-01	P4620-12
P001-CF12-01	P4620-14

COMMENTS:

SAMPLE DATA

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Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	10/29/24
Project:	RFP 872	Date Received:	10/29/24
Client Sample ID:	P001-CF06-01	SDG No.:	P4620
Lab Sample ID:	P4620-01	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	95.2
Sample Wt/Vol:	30.05 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
11/03/24 08:45	11/04/24 16:38	PB164618

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	0.40	U	1	0.40	1.05	mg/kg	FC067604.D
Aliphatic C12-C16	Aliphatic C12-C16	0.25	U	1	0.25	0.70	mg/kg	FC067604.D
Aliphatic C16-C21	Aliphatic C16-C21	0.32	U	1	0.32	1.05	mg/kg	FC067604.D
Aliphatic C21-C28	Aliphatic C21-C28	0.84	U	1	0.84	1.40	mg/kg	FC067604.D
Aliphatic C28-C40	Aliphatic C28-C40	1.89	U	1	1.89	2.10	mg/kg	FC067604.D
Aromatic C10-C12	Aromatic C10-C12	0.32	U	1	0.32	0.70	mg/kg	FD048641.D
Aromatic C12-C16	Aromatic C12-C16	0.36	U	1	0.36	1.05	mg/kg	FD048641.D
Aromatic C16-C21	Aromatic C16-C21	1.01	U	1	1.01	1.75	mg/kg	FD048641.D
Aromatic C21-C36	Aromatic C21-C36	2.10	U	1	2.10	2.80	mg/kg	FD048641.D
Total AliphaticEPH	Total AliphaticEPH	3.69	U		3.69	6.30	mg/kg	
Total AromaticEPH	Total AromaticEPH	3.78	U		3.78	6.30	mg/kg	
Total EPH	Total EPH	7.48	U		7.48	12.6	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:	Weston Solutions, Inc.	Date Collected:	10/29/24
Project:	RFP 872	Date Received:	10/29/24
Client Sample ID:	P001-CF06-01	SDG No.:	P4620
Lab Sample ID:	P4620-01	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	95.2
Sample Wt/Vol:	30.05 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FC067604.D	1	11/03/24	11/04/24	PB164618

CAS Number	Parameter		Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
Aliphatic C9-C12	Aliphatic C9-C12		0.40	U	0.40	1.05	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16		0.25	U	0.25	0.70	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21		0.32	U	0.32	1.05	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28		0.84	U	0.84	1.40	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40		1.89	U	1.89	2.10	mg/kg
SURROGATES							
3383-33-2	1-chlorooctadecane (SURR)		35.0		40 - 140	70%	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:	P4620-01	Acq On:	04 Nov 2024 16:38
Client Sample ID:	P001-CF06-01	Operator:	YP/AJ
Data file:	FC067604.D	Misc:	
Instrument:	FID_C	ALS Vial:	6
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.171	6.449	85476	0.631	300	ug/ml
Aliphatic C12-C16	6.450	9.838	176986	1.344	200	ug/ml
Aliphatic C16-C21	9.839	13.196	60355	0.474	300	ug/ml
Aliphatic C21-C28	13.197	16.847	59631	0.497	400	ug/ml
Aliphatic C28-C40	16.848	21.685	0	0	600	ug/ml
Aliphatic EPH	3.171	21.685	382448	2.946		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	12.930	12.930	3780730	35.01		ug/ml
Aliphatic C9-C28	3.171	16.847	382448	2.946	1200	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC110424AL\
Data File : FC067604.D
Signal(s) : FID1A.ch
Acq On : 04 Nov 2024 16:38
Operator : YP/AJ
Sample : P4620-01
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
P001-CF06-01

Integration File: autoint1.e
Quant Time: Nov 05 03:44:00 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...	12.930	3780730	35.011 ug/ml
Spiked Amount 50.000		Recovery = 70.02%	
Target Compounds			

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

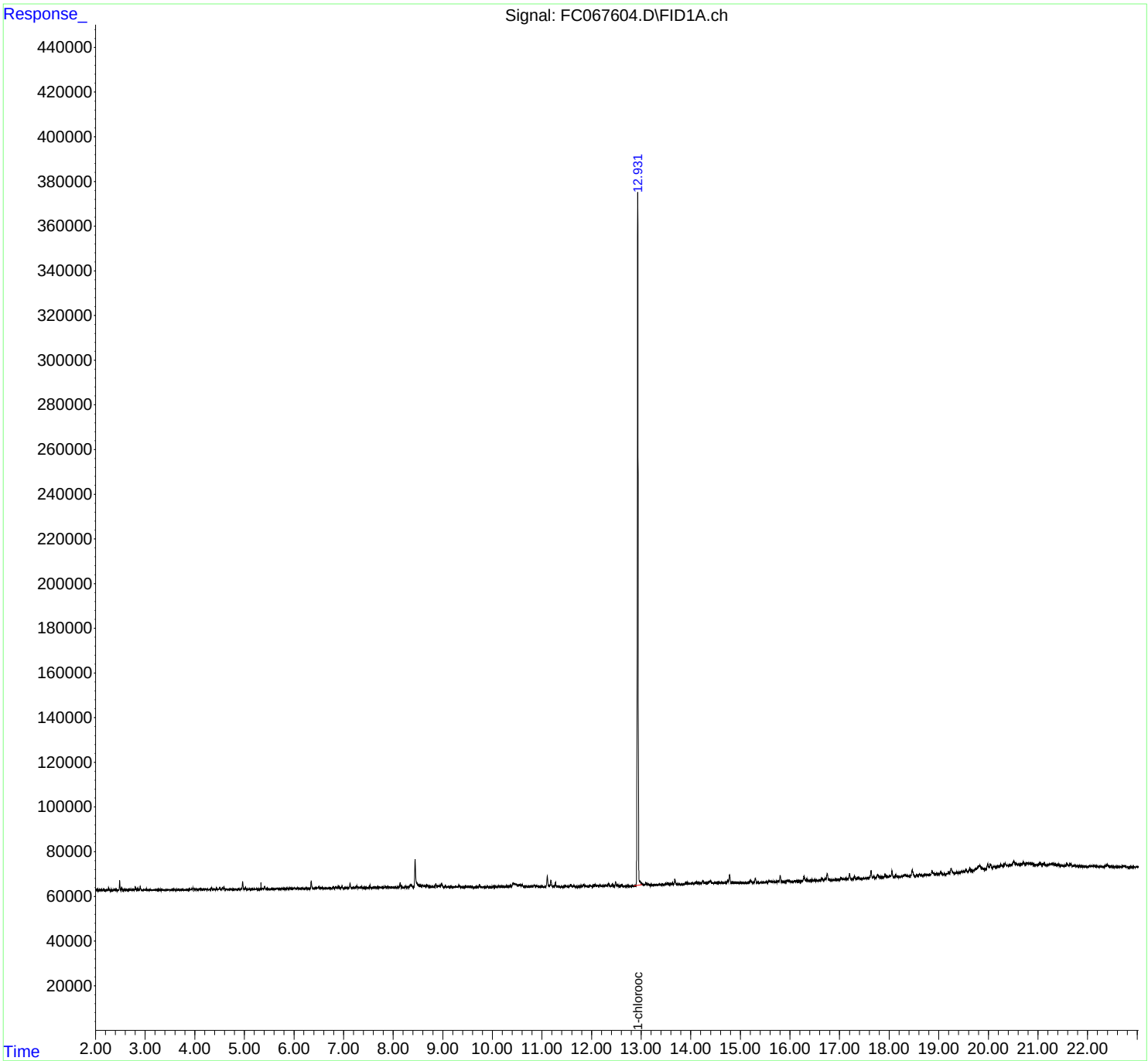
Quantitation Report (QT Reviewed)

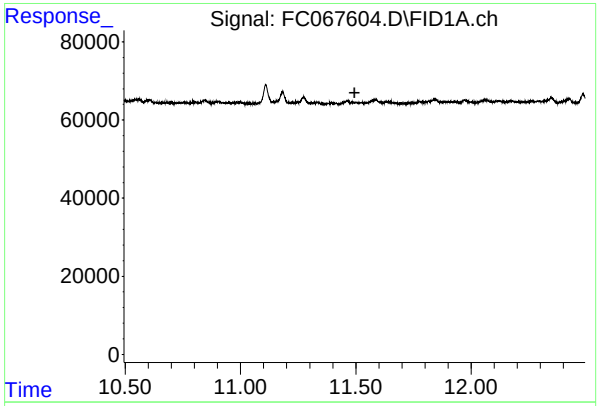
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC110424AL\
Data File : FC067604.D
Signal(s) : FID1A.ch
Acq On : 04 Nov 2024 16:38
Operator : YP/AJ
Sample : P4620-01
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
P001-CF06-01

Integration File: autoint1.e
Quant Time: Nov 05 03:44:00 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

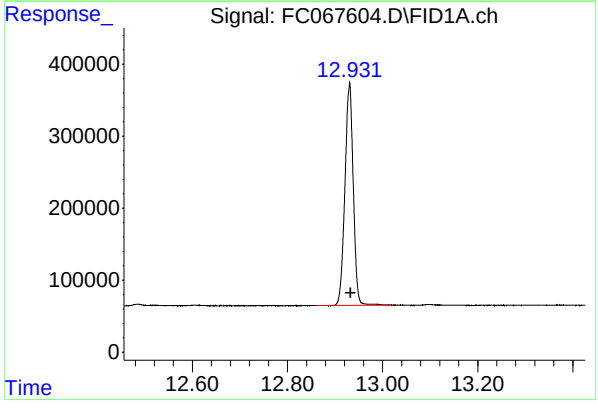




#9 ortho-Terphenyl (SURR)

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

Instrument :
FID_C
ClientSampleId :
P001-CF06-01



#12 1-chlorooctadecane (SURR)

R.T.: 12.930 min
Delta R.T.: -0.003 min
Response: 3780730
Conc: 35.01 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC110424AL\
Data File : FC067604.D
Signal(s) : FID1A.ch
Acq On : 04 Nov 2024 16:38
Sample : P4620-01
Misc :
ALS Vial : 6 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	4.966	4.872	4.997	BV	3568	50006	1.32%	1.201%
2	6.349	6.324	6.372	BB	3379	35470	0.94%	0.852%
3	8.444	8.404	8.527	BB	12171	176986	4.68%	4.251%
4	11.109	11.059	11.142	BB	4687	60355	1.60%	1.450%
5	12.930	12.860	13.022	BB	305823	3780730	100.00%	90.814%
6	14.782	14.689	14.824	BB	3368	59631	1.58%	1.432%
			Sum of corrected areas:			4163178		

Aliphatic EPH 102324.M Tue Nov 05 05:27:17 2024

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

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	10/29/24
Project:	RFP 872	Date Received:	10/29/24
Client Sample ID:	P001-CF06-01	SDG No.:	P4620
Lab Sample ID:	P4620-01	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	95.2
Sample Wt/Vol:	30.05 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FD048641.D	1	11/03/24	11/04/24	PB164618

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	0.32	U	0.32	0.70	mg/kg
Aromatic C12-C16	Aromatic C12-C16	0.36	U	0.36	1.05	mg/kg
Aromatic C16-C21	Aromatic C16-C21	1.01	U	1.01	1.75	mg/kg
Aromatic C21-C36	Aromatic C21-C36	2.10	U	2.10	2.80	mg/kg
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	58.4		40 - 140	117%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	56.9		40 - 140	114%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	29.4		40 - 140	59%	SPK: 50

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Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	P4620-01	Acq On:	04 Nov 2024 16:38
Client Sample ID:	P001-CF06-01	Operator:	YP/AJ
Data file:	FD048641.D	Misc:	
Instrument:	FID_D	ALS Vial:	56
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic EPH	4.093	18.080	3850758	24.109		ug/ml
2-Bromonaphthalene (SURR)	7.368	7.368	8870156	58.44		ug/ml
2-Flurobiphenyl (SURR)	8.218	8.218	5583529	56.86		ug/ml
ortho-Terphenyl (SURR)	11.253	11.253	5005014	29.38		ug/ml
Aromatic C10-C12	4.093	5.811	187671	1.065	200	ug/ml
Aromatic C12-C16	5.812	8.416	57101	0.322	300	ug/ml
Aromatic C16-C21	8.417	12.676	2005435	12.241	500	ug/ml
Aromatic C21-C36	12.677	18.080	1600551	10.481	800	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD110424AR\
Data File : FD048641.D
Signal(s) : FID2B.ch
Acq On : 04 Nov 2024 16:38
Operator : YP/AJ
Sample : P4620-01
Misc :
ALS Vial : 56 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
P001-CF06-01

Integration File: autoint1.e
Quant Time: Nov 05 02:07:28 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...	7.368	8870156	58.441 ug/ml
Spiked Amount 50.000		Recovery = 116.88%	
6) S 2-Flurobiphenyl (SURR)	8.218	5583529	56.863 ug/ml
Spiked Amount 50.000 Range 0 - 131		Recovery = 113.73%	
11) S ortho-Terphenyl (SURR)	11.253	5005014	29.383 ug/ml
Spiked Amount 50.000		Recovery = 58.77%	
Target Compounds			

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

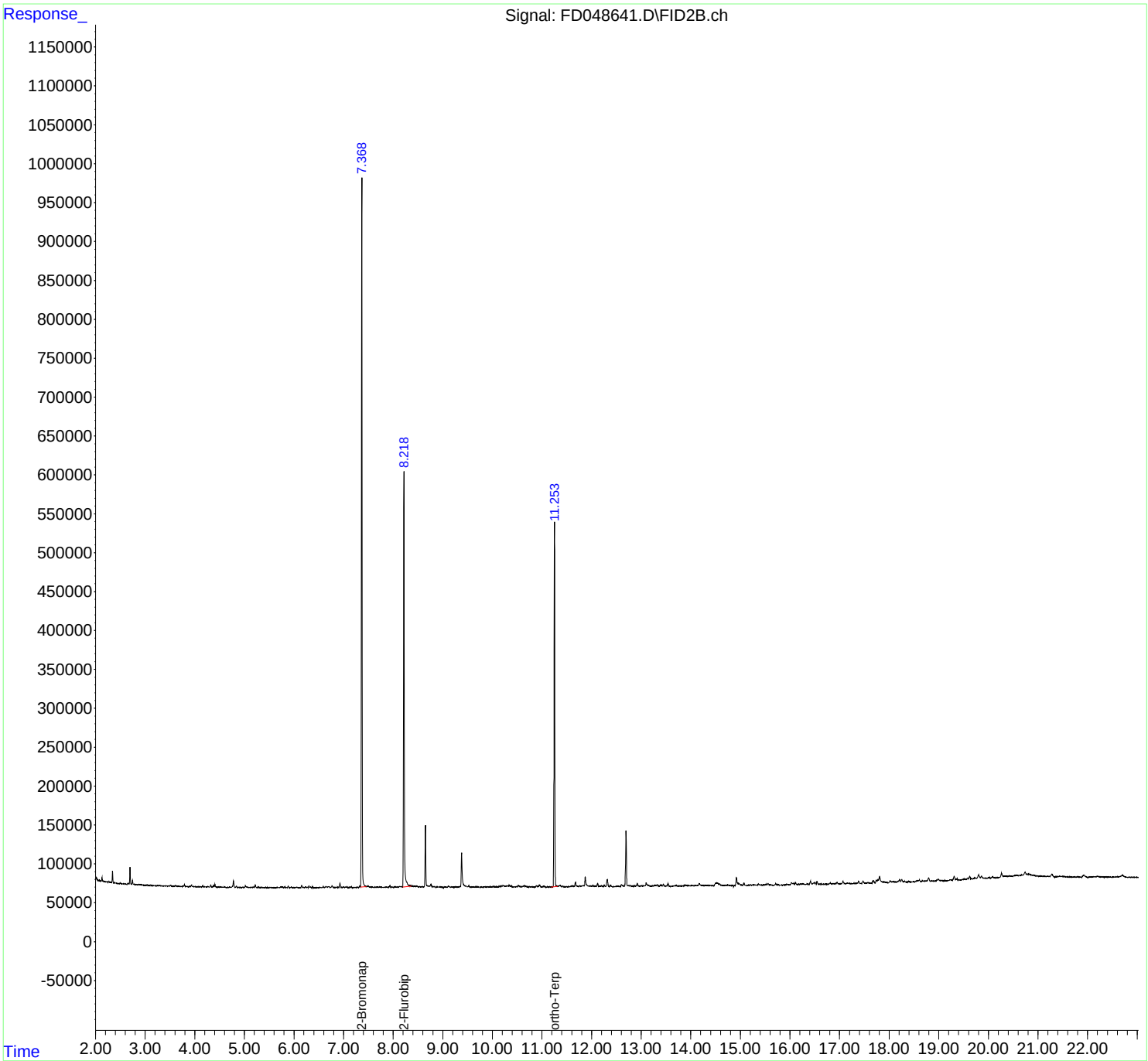
Quantitation Report (QT Reviewed)

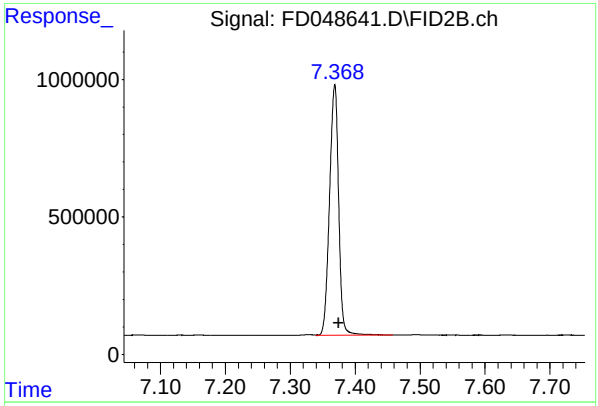
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD110424AR\
Data File : FD048641.D
Signal(s) : FID2B.ch
Acq On : 04 Nov 2024 16:38
Operator : YP/AJ
Sample : P4620-01
Misc :
ALS Vial : 56 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
P001-CF06-01

Integration File: autoint1.e
Quant Time: Nov 05 02:07:28 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

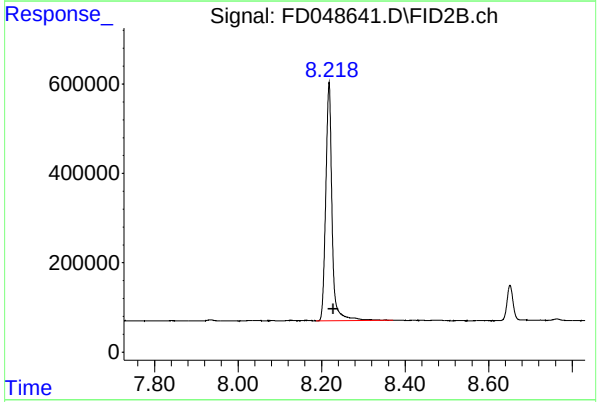




#4 2-Bromonaphthalene (SURR)

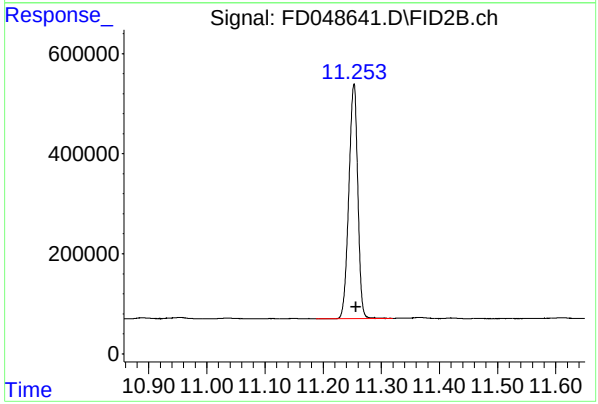
R.T.: 7.368 min
Delta R.T.: -0.006 min
Response: 8870156
Conc: 58.44 ug/ml

Instrument :
FID_D
ClientSampleId :
P001-CF06-01



#6 2-Flurobiphenyl (SURR)

R.T.: 8.218 min
Delta R.T.: -0.010 min
Response: 5583529
Conc: 56.86 ug/ml



#11 ortho-Terphenyl (SURR)

R.T.: 11.253 min
Delta R.T.: -0.004 min
Response: 5005014
Conc: 29.38 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD110424AR\
Data File : FD048641.D
Signal(s) : FID2B.ch
Acq On : 04 Nov 2024 16:38
Sample : P4620-01
Misc :
ALS Vial : 56 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	4.407	4.392	4.464	VB	3740	35705	0.40%	0.153%
2	4.781	4.730	4.817	VV	8701	119057	1.34%	0.511%
3	5.221	5.201	5.248	VV	3400	32909	0.37%	0.141%
4	6.928	6.901	6.951	BV	5640	57101	0.64%	0.245%
5	7.368	7.340	7.458	PV	905896	8870156	100.00%	38.054%
6	8.218	8.187	8.371	PV	531762	5583529	62.95%	23.954%
7	8.651	8.604	8.714	BV	79131	814359	9.18%	3.494%
8	8.763	8.739	8.792	VV	3715	49919	0.56%	0.214%
9	9.381	9.294	9.504	BV	43853	626165	7.06%	2.686%
10	11.253	11.188	11.320	BV	476821	5005014	56.43%	21.472%
11	11.675	11.644	11.699	VV	5920	79405	0.90%	0.341%
12	11.872	11.850	11.934	VV	12536	208872	2.35%	0.896%
13	12.122	12.050	12.148	VV	4345	80816	0.91%	0.347%
14	12.316	12.278	12.359	VV	8651	145899	1.64%	0.626%
15	12.693	12.643	12.754	VV	70981	819010	9.23%	3.514%
16	13.101	13.029	13.204	VB	4183	101203	1.14%	0.434%
17	14.509	14.439	14.531	PV	1459	20252	0.23%	0.087%
18	14.919	14.865	14.952	PV	11232	211572	2.39%	0.908%
19	14.966	14.952	15.041	VB	3106	77308	0.87%	0.332%
20	16.413	16.384	16.447	BV	3734	65199	0.74%	0.280%
21	16.545	16.523	16.608	VB	3641	53713	0.61%	0.230%
22	17.472	17.441	17.511	PV	2958	47153	0.53%	0.202%
23	17.679	17.614	17.699	BBA	2639	31845	0.36%	0.137%
24	17.741	17.701	17.755	BV	2989	30202	0.34%	0.130%
25	17.805	17.783	17.888	VB	7362	143094	1.61%	0.614%

Sum of corrected areas: 23309456

Aromatic EPH 102324.M Tue Nov 05 03:28:58 2024

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

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	10/29/24
Project:	RFP 872	Date Received:	10/29/24
Client Sample ID:	P001-CF06-01	SDG No.:	P4620
Lab Sample ID:	P4620-02	Matrix:	Water
Analytical Method:	NJEPH	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :	SW3510		

Prep Date :	Date Analyzed :	Prep Batch ID
11/03/24 08:20	11/04/24 11:43	PB164637

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	5.76	U	1	5.76	30.0	ug/l	FG014636.D
Aliphatic C12-C16	Aliphatic C12-C16	3.61	U	1	3.61	20.0	ug/l	FG014636.D
Aliphatic C16-C21	Aliphatic C16-C21	5.14	U	1	5.14	30.0	ug/l	FG014636.D
Aliphatic C21-C28	Aliphatic C21-C28	8.97	U	1	8.97	40.0	ug/l	FG014636.D
Aliphatic C28-C40	Aliphatic C28-C40	17.0	U	1	17.0	60.0	ug/l	FG014636.D
Aromatic C10-C12	Aromatic C10-C12	3.32	U	1	3.32	20.0	ug/l	FF014906.D
Aromatic C12-C16	Aromatic C12-C16	3.69	U	1	3.69	30.0	ug/l	FF014906.D
Aromatic C16-C21	Aromatic C16-C21	32.8	J	1	12.7	50.0	ug/l	FF014906.D
Aromatic C21-C36	Aromatic C21-C36	25.2	U	1	25.2	80.0	ug/l	FF014906.D
Total AliphaticEPH	Total AliphaticEPH	40.5	U		40.5	180	ug/l	
Total AromaticEPH	Total AromaticEPH	44.9	U		44.9	180	ug/l	
Total EPH	Total EPH	85.4	U		85.4	360	ug/l	

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

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

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

Report of Analysis

Client:	Weston Solutions, Inc.		Date Collected:	10/29/24	
Project:	RFP 872		Date Received:	10/29/24	
Client Sample ID:	P001-CF06-01		SDG No.:	P4620	
Lab Sample ID:	P4620-02		Matrix:	Water	
Analytical Method:	NJEPH		% Solid:	0	
Sample Wt/Vol:	1000	Units: mL	Final Vol:	2000	uL
Soil Aliquot Vol:		uL	Test:	EPH	
Prep Method :	SW3510				

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FF014906.D	1	11/03/24	11/04/24	PB164637

CAS Number	Parameter		Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
Aromatic C10-C12	Aromatic C10-C12		3.32	U	3.32	20.0	ug/l
Aromatic C12-C16	Aromatic C12-C16		3.69	U	3.69	30.0	ug/l
Aromatic C16-C21	Aromatic C16-C21		32.8	J	12.7	50.0	ug/l
Aromatic C21-C36	Aromatic C21-C36		25.2	U	25.2	80.0	ug/l
SURROGATES							
580-13-2	2-Bromonaphthalene (SURR)		49.1		40 - 140	98%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)		44.4		40 - 140	89%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)		48.9		40 - 140	98%	SPK: 50

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Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	P4620-02	Acq On:	04 Nov 2024 11:43
Client Sample ID:	P001-CF06-01	Operator:	YP\AJ
Data file:	FF014906.D	Misc:	
Instrument:	FID_F	ALS Vial:	61
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.508	6.372	225119	1.442	200	ug/ml
Aromatic C12-C16	6.373	9.064	127105	0.796	300	ug/ml
Aromatic C16-C21	9.065	13.375	2546975	16.391	500	ug/ml
Aromatic C21-C36	13.376	18.817	784909	5.288	800	ug/ml
Aromatic EPH	4.508	18.817	3684108	23.917		ug/ml
2-Bromonaphthalene (SURR)	7.987	7.987	6851922	49.14		ug/ml
2-Flurobiphenyl (SURR)	8.861	8.861	4191407	44.44		ug/ml
ortho-Terphenyl (SURR)	11.927	11.927	7821861	48.89		ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF110424AR\
Data File : FF014906.D
Signal(s) : FID2B.ch
Acq On : 04 Nov 2024 11:43
Operator : YP\AJ
Sample : P4620-02
Misc :
ALS Vial : 61 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
P001-CF06-01

Integration File: autoint1.e
Quant Time: Nov 05 01:25:34 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 102124.M
Quant Title : GC Extractables
QLast Update : Tue Oct 22 04:14:53 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...	7.987	6851922	49.137 ug/ml
Spiked Amount 50.000		Recovery = 98.27%	
6) S 2-Flurobiphenyl (SURR)	8.861	4191407	44.443 ug/ml
Spiked Amount 50.000 Range 0 - 131		Recovery = 88.89%	
11) S ortho-Terphenyl (SURR)	11.927	7821861	48.894 ug/ml
Spiked Amount 50.000		Recovery = 97.79%	
Target Compounds			

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

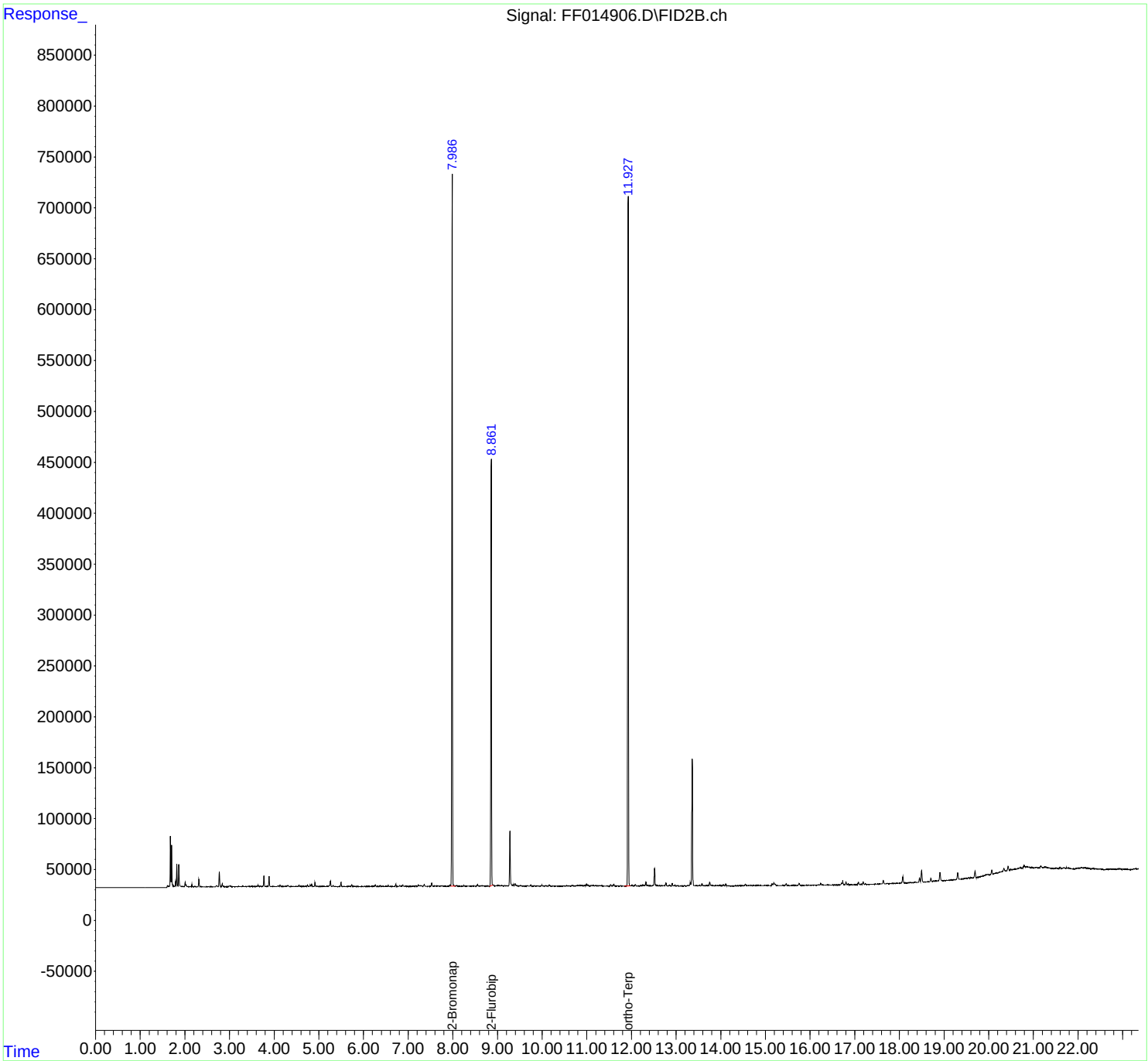
Quantitation Report (QT Reviewed)

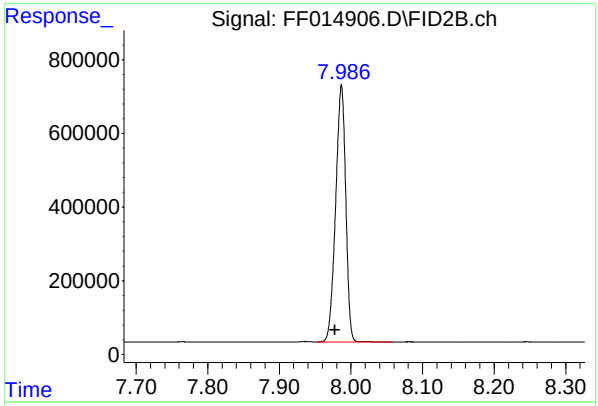
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF110424AR\
Data File : FF014906.D
Signal(s) : FID2B.ch
Acq On : 04 Nov 2024 11:43
Operator : YP\AJ
Sample : P4620-02
Misc :
ALS Vial : 61 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
P001-CF06-01

Integration File: autoint1.e
Quant Time: Nov 05 01:25:34 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 102124.M
Quant Title : GC Extractables
QLast Update : Tue Oct 22 04:14:53 2024
Response via : Initial Calibration
Integrator: ChemStation

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

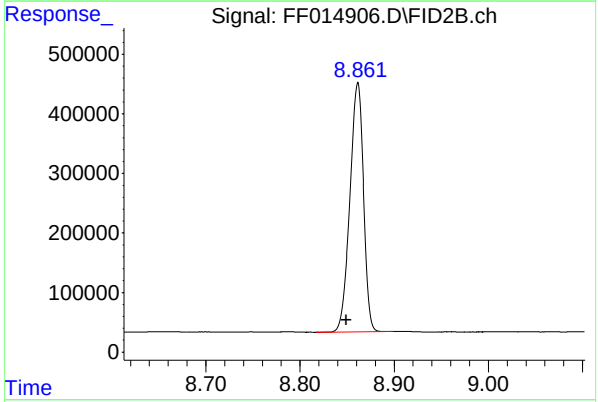




#4 2-Bromonaphthalene (SURR)

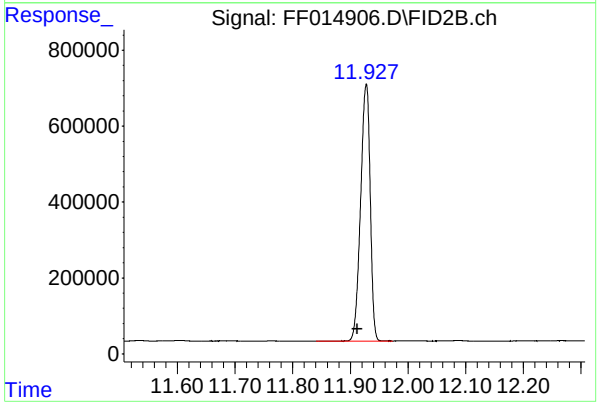
R.T.: 7.987 min
Delta R.T.: 0.009 min
Response: 6851922
Conc: 49.14 ug/ml

Instrument :
FID_F
ClientSampleId :
P001-CF06-01



#6 2-Flurobiphenyl (SURR)

R.T.: 8.861 min
Delta R.T.: 0.012 min
Response: 4191407
Conc: 44.44 ug/ml



#11 ortho-Terphenyl (SURR)

R.T.: 11.927 min
Delta R.T.: 0.015 min
Response: 7821861
Conc: 48.89 ug/ml

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF110424AR\
Data File : FF014906.D
Signal(s) : FID2B.ch
Acq On : 04 Nov 2024 11:43
Sample : P4620-02
Misc :
ALS Vial : 61 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 102124.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	4.841	4.824	4.865	VB	2352	23950	0.31%	0.106%
2	4.914	4.894	4.944	BV	3918	40289	0.52%	0.179%
3	5.259	5.199	5.294	BV	5542	74549	0.95%	0.331%
4	5.497	5.427	5.535	BB	4436	47653	0.61%	0.211%
5	5.739	5.715	5.780	BV	1849	19751	0.25%	0.088%
6	6.263	6.240	6.304	BV	1668	18927	0.24%	0.084%
7	6.724	6.700	6.749	BV	2504	25790	0.33%	0.114%
8	7.361	7.328	7.410	PB	2051	28857	0.37%	0.128%
9	7.528	7.485	7.555	PV	3566	41569	0.53%	0.184%
10	7.987	7.951	8.059	VV	700740	6851922	87.60%	30.386%
11	8.552	8.400	8.597	BV	1671	30889	0.39%	0.137%
12	8.861	8.817	8.899	BV	416556	4191407	53.59%	18.588%
13	9.281	9.230	9.345	BV	53693	591827	7.57%	2.625%
14	9.396	9.375	9.417	VV	1827	20847	0.27%	0.092%
15	10.992	10.972	11.010	VV	1661	16891	0.22%	0.075%
16	11.604	11.557	11.634	VV	1992	32516	0.42%	0.144%
17	11.927	11.840	11.974	BV	676228	7821861	100.00%	34.688%
18	12.324	12.289	12.349	VV	3833	48411	0.62%	0.215%
19	12.517	12.454	12.620	BB	17475	222965	2.85%	0.989%
20	12.774	12.629	12.819	BB	2898	61119	0.78%	0.271%
21	12.914	12.879	12.935	PV	2565	30140	0.39%	0.134%
22	13.316	13.289	13.332	PV	3140	40740	0.52%	0.181%
23	13.360	13.332	13.397	VB	124678	1481519	18.94%	6.570%
24	13.580	13.555	13.622	VV	2126	28693	0.37%	0.127%
25	13.752	13.622	13.785	PB	3389	39855	0.51%	0.177%
26	14.114	14.087	14.157	PB	1913	26128	0.33%	0.116%
27	14.549	14.392	14.599	BB	1513	19411	0.25%	0.086%
28	15.147	15.090	15.164	BV	1353	7827	0.10%	0.035%
29	15.188	15.164	15.207	PV	1460	16480	0.21%	0.073%
30	15.462	15.415	15.492	BB	1838	24349	0.31%	0.108%
31	15.754	15.575	15.809	BB	2008	42422	0.54%	0.188%
32	16.703	16.640	16.715	BV	1647	22561	0.29%	0.100%
33	16.731	16.715	16.775	VV	3056	35461	0.45%	0.157%
34	16.803	16.775	16.825	PV	2803	36078	0.46%	0.160%
35	17.082	17.004	17.114	BB	2494	33177	0.42%	0.147%
36	17.188	17.135	17.215	BV	2534	40703	0.52%	0.181%

rteres

37	17.639	17.572	17.680	BB	3397	50223	0.64%	0.223%
38	18.075	17.999	18.107	BB	6239	91049	1.16%	0.404%
39	18.450	18.384	18.469	BV	4356	57119	0.73%	0.253%
40	18.495	18.469	18.534	VB	11513	172416	2.20%	0.765%
41	18.704	18.644	18.730	BV	3294	40957	0.52%	0.182%

Sum of corrected areas: 22549294

Aromatic EPH 102124.M Tue Nov 05 01:56:39 2024

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

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	10/29/24
Project:	RFP 872	Date Received:	10/29/24
Client Sample ID:	P001-CF06-01	SDG No.:	P4620
Lab Sample ID:	P4620-02	Matrix:	Water
Analytical Method:	NJEPH	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :	SW3510		

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FG014636.D	1	11/03/24	11/04/24	PB164637

CAS Number	Parameter		Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
Aliphatic C9-C12	Aliphatic C9-C12		5.76	U	5.76	30.0	ug/l
Aliphatic C12-C16	Aliphatic C12-C16		3.61	U	3.61	20.0	ug/l
Aliphatic C16-C21	Aliphatic C16-C21		5.14	U	5.14	30.0	ug/l
Aliphatic C21-C28	Aliphatic C21-C28		8.97	U	8.97	40.0	ug/l
Aliphatic C28-C40	Aliphatic C28-C40		17.0	U	17.0	60.0	ug/l
SURROGATES							
3383-33-2	1-chlorooctadecane (SURR)		56.2		40 - 140	112%	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:	P4620-02	Acq On:	04 Nov 2024 11:43
Client Sample ID:	P001-CF06-01	Operator:	YP\AJ
Data file:	FG014636.D	Misc:	
Instrument:	FID_G	ALS Vial:	11
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.228	6.849	164888	1.255	300	ug/ml
Aliphatic C12-C16	6.850	10.292	464480	3.42	200	ug/ml
Aliphatic C16-C21	10.293	13.665	168554	1.193	300	ug/ml
Aliphatic C21-C28	13.666	17.329	47792	0.34	400	ug/ml
Aliphatic C28-C40	17.330	22.266	137511	1.301	600	ug/ml
Aliphatic EPH	3.228	22.266	983225	7.51		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	13.403	13.403	6900768	56.2		ug/ml
Aliphatic C9-C28	3.228	17.329	845714	6.208	1200	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG110424AL\
Data File : FG014636.D
Signal(s) : FID1A.ch
Acq On : 04 Nov 2024 11:43
Operator : YP\AJ
Sample : P4620-02
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
P001-CF06-01

Integration File: autoint1.e
Quant Time: Nov 05 00:36:08 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 102124.M
Quant Title : GC Extractables
QLast Update : Tue Oct 22 06:49:54 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...	13.403	6900768	56.199 ug/ml
Spiked Amount 50.000		Recovery = 112.40%	
Target Compounds			

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

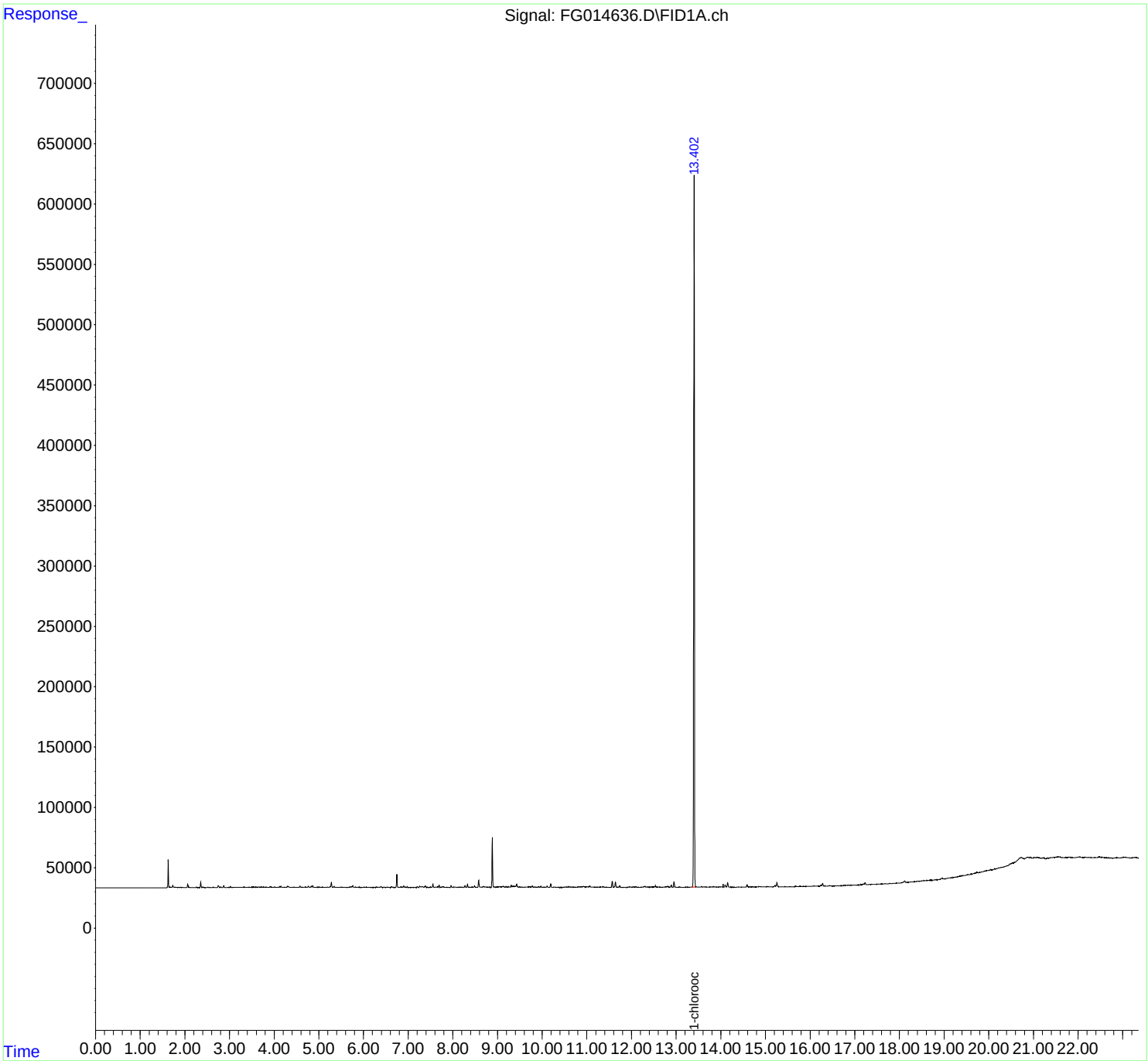
Quantitation Report (QT Reviewed)

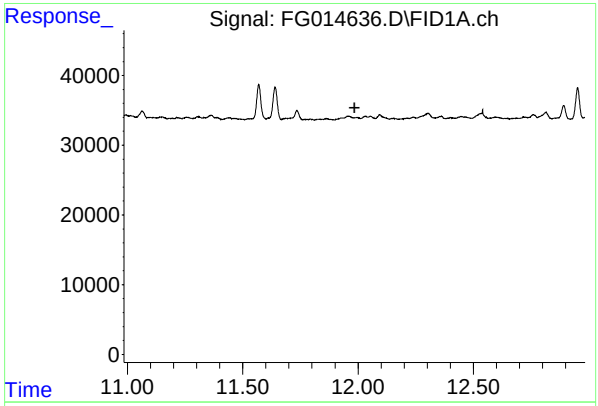
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG110424AL\
Data File : FG014636.D
Signal(s) : FID1A.ch
Acq On : 04 Nov 2024 11:43
Operator : YP\AJ
Sample : P4620-02
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
P001-CF06-01

Integration File: autoint1.e
Quant Time: Nov 05 00:36:08 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 102124.M
Quant Title : GC Extractables
QLast Update : Tue Oct 22 06:49:54 2024
Response via : Initial Calibration
Integrator: ChemStation

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

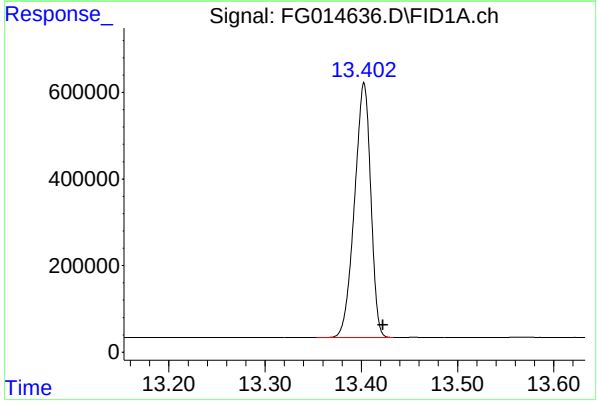




#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.984 min
Response: 0
Conc: N.D.

Instrument :
FID_G
ClientSampleId :
P001-CF06-01



#12 1-chlorooctadecane (SURR)

R.T.: 13.403 min
Delta R.T.: -0.020 min
Response: 6900768
Conc: 56.20 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG110424AL\
Data File : FG014636.D
Signal(s) : FID1A.ch
Acq On : 04 Nov 2024 11:43
Sample : P4620-02
Misc :
ALS Vial : 11 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 102124.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	5.280	5.231	5.309	BB	4151	53019	0.77%	0.672%
2	6.748	6.721	6.774	BB	10926	111869	1.62%	1.419%
3	8.580	8.548	8.607	BB	5573	60479	0.88%	0.767%
4	8.885	8.854	8.918	BB	41347	404001	5.85%	5.124%
5	11.570	11.537	11.603	BB	4949	60189	0.87%	0.763%
6	11.640	11.614	11.666	BB	4553	57327	0.83%	0.727%
7	12.952	12.924	12.978	BB	4431	51038	0.74%	0.647%
8	13.403	13.353	13.433	BB	589012	6900768	100.00%	87.529%
9	14.152	14.126	14.185	BB	3797	47792	0.69%	0.606%
10	20.734	20.436	20.768	BB	1646	137511	1.99%	1.744%

Sum of corrected areas: 7883992

Aliphatic EPH 102124.M Tue Nov 05 01:17:39 2024

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

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	10/29/24
Project:	RFP 872	Date Received:	10/29/24
Client Sample ID:	P001-CF07-01	SDG No.:	P4620
Lab Sample ID:	P4620-03	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	95.5
Sample Wt/Vol:	30.07 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
11/03/24 08:45	11/04/24 17:14	PB164618

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	0.40	U	1	0.40	1.04	mg/kg	FC067605.D
Aliphatic C12-C16	Aliphatic C12-C16	0.25	U	1	0.25	0.70	mg/kg	FC067605.D
Aliphatic C16-C21	Aliphatic C16-C21	0.31	U	1	0.31	1.04	mg/kg	FC067605.D
Aliphatic C21-C28	Aliphatic C21-C28	0.84	U	1	0.84	1.39	mg/kg	FC067605.D
Aliphatic C28-C40	Aliphatic C28-C40	1.88	U	1	1.88	2.09	mg/kg	FC067605.D
Aromatic C10-C12	Aromatic C10-C12	0.31	U	1	0.31	0.70	mg/kg	FD048642.D
Aromatic C12-C16	Aromatic C12-C16	0.36	U	1	0.36	1.04	mg/kg	FD048642.D
Aromatic C16-C21	Aromatic C16-C21	1.00	U	1	1.00	1.74	mg/kg	FD048642.D
Aromatic C21-C36	Aromatic C21-C36	2.09	U	1	2.09	2.79	mg/kg	FD048642.D
Total AliphaticEPH	Total AliphaticEPH	3.68	U		3.68	6.26	mg/kg	
Total AromaticEPH	Total AromaticEPH	3.76	U		3.76	6.27	mg/kg	
Total EPH	Total EPH	7.43	U		7.43	12.5	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:	Weston Solutions, Inc.	Date Collected:	10/29/24
Project:	RFP 872	Date Received:	10/29/24
Client Sample ID:	P001-CF07-01	SDG No.:	P4620
Lab Sample ID:	P4620-03	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	95.5
Sample Wt/Vol:	30.07 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FC067605.D	1	11/03/24	11/04/24	PB164618

CAS Number	Parameter		Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
Aliphatic C9-C12	Aliphatic C9-C12		0.40	U	0.40	1.04	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16		0.25	U	0.25	0.70	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21		0.31	U	0.31	1.04	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28		0.84	U	0.84	1.39	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40		1.88	U	1.88	2.09	mg/kg
SURROGATES							
3383-33-2	1-chlorooctadecane (SURR)		40.1		40 - 140	80%	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:	P4620-03	Acq On:	04 Nov 2024 17:14
Client Sample ID:	P001-CF07-01	Operator:	YP/AJ
Data file:	FC067605.D	Misc:	
Instrument:	FID_C	ALS Vial:	7
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.171	6.449	117884	0.87	300	ug/ml
Aliphatic C12-C16	6.450	9.838	38234	0.29	200	ug/ml
Aliphatic C16-C21	9.839	13.196	49241	0.387	300	ug/ml
Aliphatic C21-C28	13.197	16.847	189508	1.578	400	ug/ml
Aliphatic C28-C40	16.848	21.685	544280	5.384	600	ug/ml
Aliphatic EPH	3.171	21.685	939147	8.51		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	12.928	12.928	4330615	40.1		ug/ml
Aliphatic C9-C28	3.171	16.847	394867	3.125	1200	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC110424AL\
Data File : FC067605.D
Signal(s) : FID1A.ch
Acq On : 04 Nov 2024 17:14
Operator : YP/AJ
Sample : P4620-03
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
P001-CF07-01

Integration File: autoint1.e
Quant Time: Nov 05 03:44:09 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...	12.928	4330615	40.103 ug/ml
Spiked Amount 50.000		Recovery = 80.21%	
Target Compounds			

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

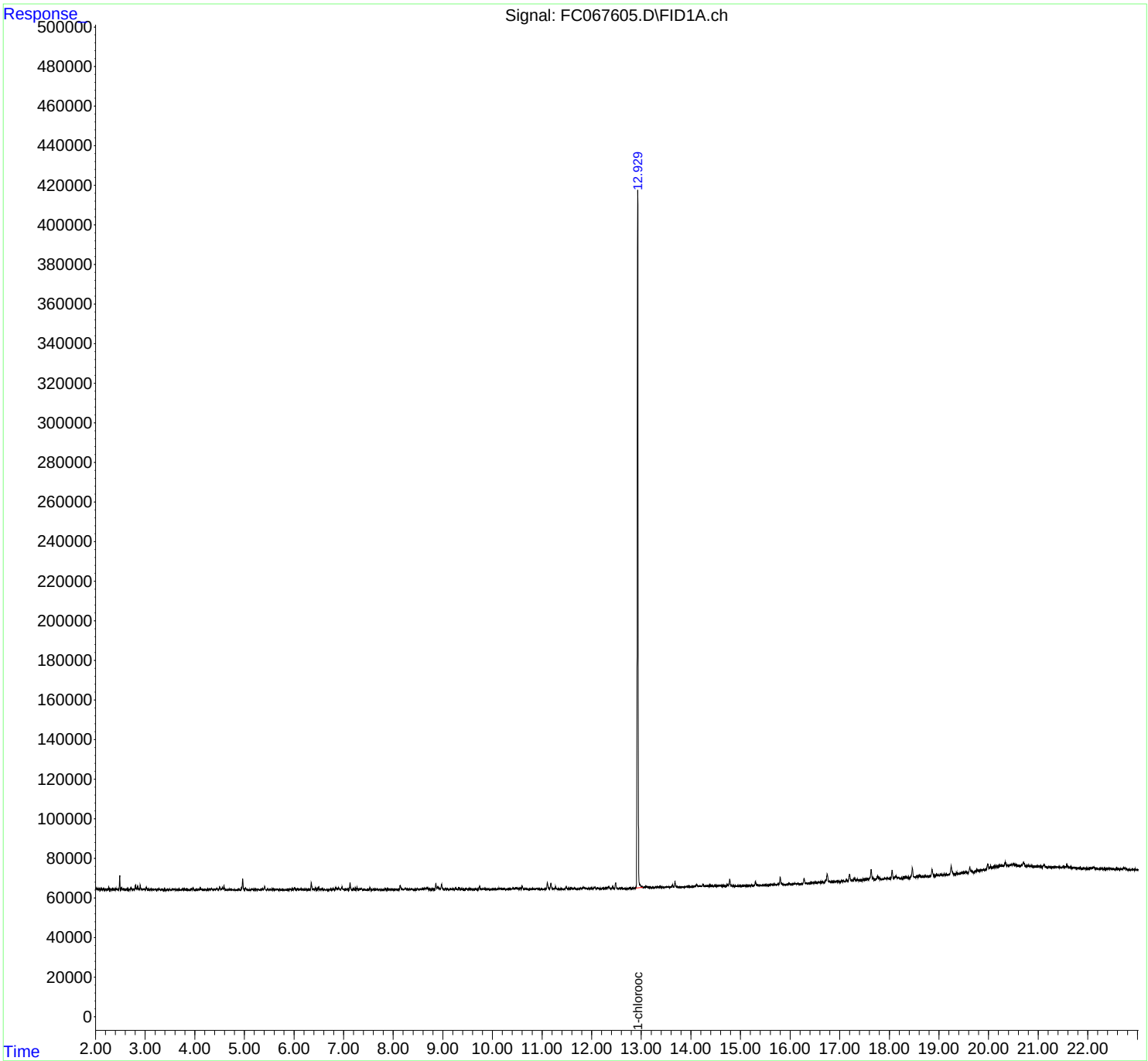
Quantitation Report (QT Reviewed)

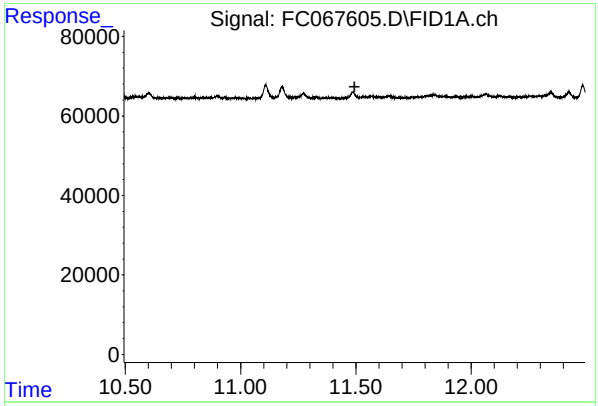
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC110424AL\
Data File : FC067605.D
Signal(s) : FID1A.ch
Acq On : 04 Nov 2024 17:14
Operator : YP/AJ
Sample : P4620-03
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
P001-CF07-01

Integration File: autoint1.e
Quant Time: Nov 05 03:44:09 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

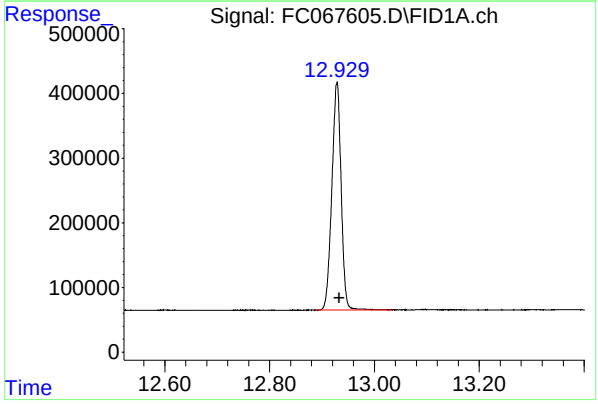




#9 ortho-Terphenyl (SURR)

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

Instrument :
FID_C
ClientSampleId :
P001-CF07-01



#12 1-chlorooctadecane (SURR)

R.T.: 12.928 min
Delta R.T.: -0.005 min
Response: 4330615
Conc: 40.10 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC110424AL\
Data File : FC067605.D
Signal(s) : FID1A.ch
Acq On : 04 Nov 2024 17:14
Sample : P4620-03
Misc :
ALS Vial : 7 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	4.966	4.865	5.000	BV	5621	73761	1.70%	1.400%
2	6.349	6.325	6.395	BB	3755	44123	1.02%	0.837%
3	7.131	7.105	7.165	BB	3624	38234	0.88%	0.726%
4	11.109	11.065	11.145	BV	3404	49241	1.14%	0.934%
5	12.928	12.889	13.035	BB	351427	4330615	100.00%	82.179%
6	14.781	14.757	14.822	VB	3515	49485	1.14%	0.939%
7	15.799	15.712	15.829	BB	3619	55915	1.29%	1.061%
8	16.747	16.670	16.812	BB	4237	84108	1.94%	1.596%
9	17.198	17.000	17.239	BB	3383	77370	1.79%	1.468%
10	17.632	17.430	17.695	BB	5339	137237	3.17%	2.604%
11	18.055	18.007	18.082	BV	4153	55179	1.27%	1.047%
12	18.463	18.392	18.522	BB	4752	85563	1.98%	1.624%
13	18.860	18.794	18.917	BB	3504	65691	1.52%	1.247%
14	19.246	19.197	19.315	BB	4324	85295	1.97%	1.619%
15	19.983	19.685	20.019	BV	2501	37945	0.88%	0.720%

Sum of corrected areas: 5269762

Aliphatic EPH 102324.M Tue Nov 05 05:27:28 2024

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

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	10/29/24
Project:	RFP 872	Date Received:	10/29/24
Client Sample ID:	P001-CF07-01	SDG No.:	P4620
Lab Sample ID:	P4620-03	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	95.5
Sample Wt/Vol:	30.07 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FD048642.D	1	11/03/24	11/04/24	PB164618

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	0.31	U	0.31	0.70	mg/kg
Aromatic C12-C16	Aromatic C12-C16	0.36	U	0.36	1.04	mg/kg
Aromatic C16-C21	Aromatic C16-C21	1.00	U	1.00	1.74	mg/kg
Aromatic C21-C36	Aromatic C21-C36	2.09	U	2.09	2.79	mg/kg
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	48.0		40 - 140	96%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	48.3		40 - 140	97%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	24.8		40 - 140	50%	SPK: 50

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Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	P4620-03	Acq On:	04 Nov 2024 17:14
Client Sample ID:	P001-CF07-01	Operator:	YP/AJ
Data file:	FD048642.D	Misc:	
Instrument:	FID_D	ALS Vial:	57
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic EPH	4.093	18.080	2326271	14.792		ug/ml
ortho-Terphenyl (SURR)	11.253	11.253	4220911	24.78		ug/ml
2-Bromonaphthalene (SURR)	7.370	7.370	7282436	47.98		ug/ml
2-Flurobiphenyl (SURR)	8.219	8.219	4741213	48.29		ug/ml
Aromatic C10-C12	4.093	5.811	54027	0.307	200	ug/ml
Aromatic C12-C16	5.812	8.416	0	0	300	ug/ml
Aromatic C16-C21	8.417	12.676	886553	5.411	500	ug/ml
Aromatic C21-C36	12.677	18.080	1385691	9.074	800	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD110424AR\
Data File : FD048642.D
Signal(s) : FID2B.ch
Acq On : 04 Nov 2024 17:14
Operator : YP/AJ
Sample : P4620-03
Misc :
ALS Vial : 57 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
P001-CF07-01

Integration File: autoint1.e
Quant Time: Nov 05 02:07:37 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	7282436	47.981 ug/ml
Spiked Amount 50.000		Recovery =	95.96%
6) S 2-Flurobiphenyl (SURR)	8.219	4741213	48.285 ug/ml
Spiked Amount 50.000 Range	0 - 131	Recovery =	96.57%
11) S ortho-Terphenyl (SURR)	11.253	4220911	24.779 ug/ml
Spiked Amount 50.000		Recovery =	49.56%
Target Compounds			

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

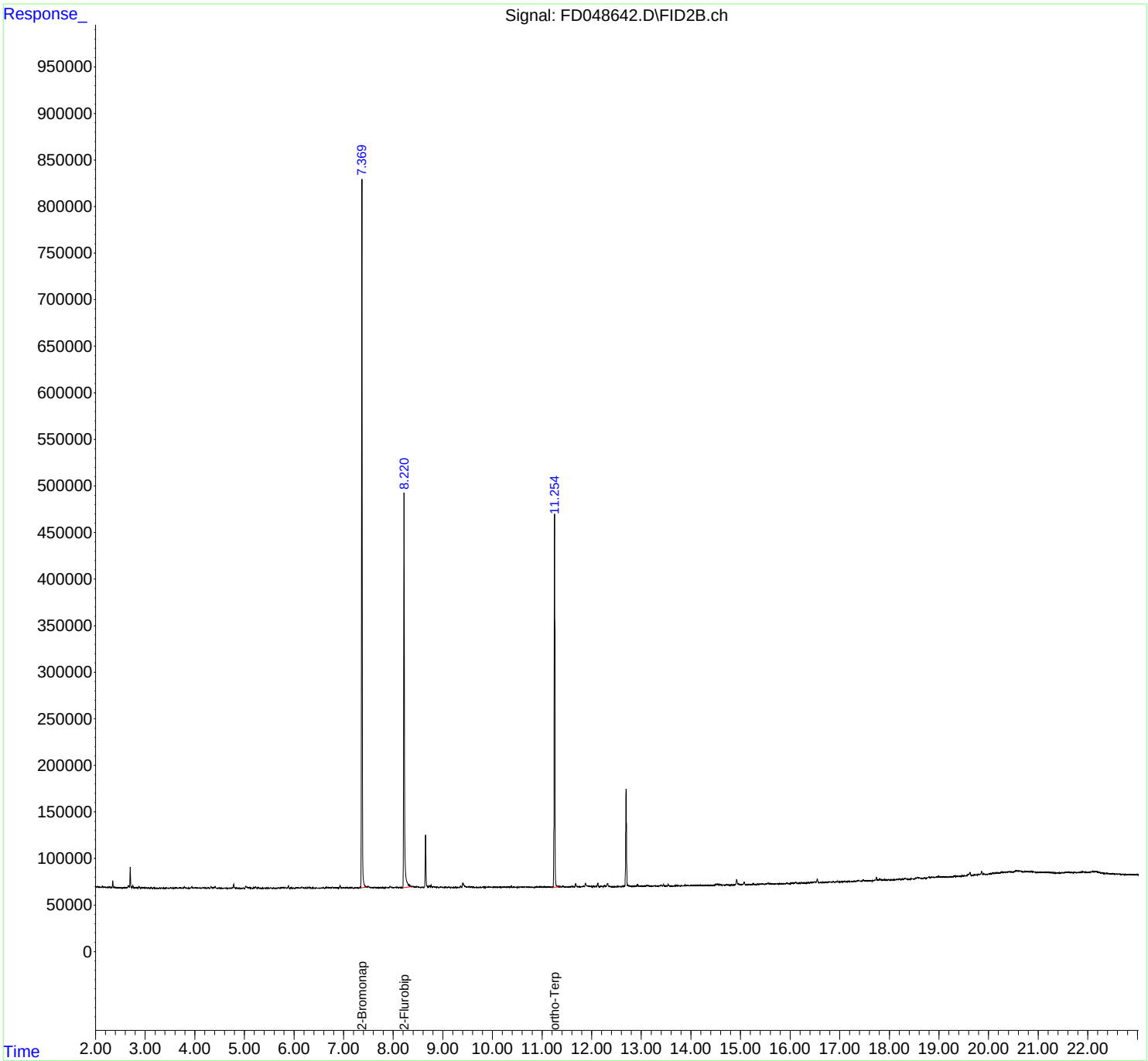
Quantitation Report (QT Reviewed)

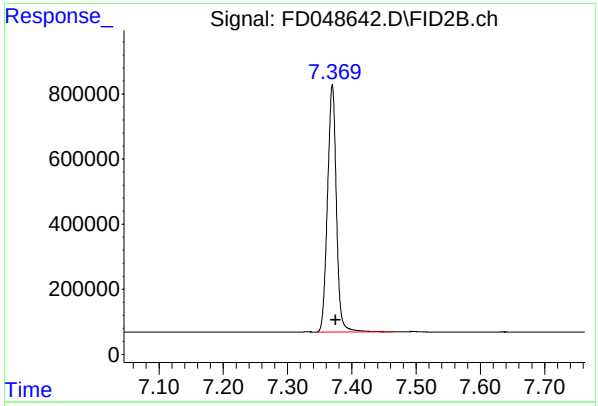
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD110424AR\
Data File : FD048642.D
Signal(s) : FID2B.ch
Acq On : 04 Nov 2024 17:14
Operator : YP/AJ
Sample : P4620-03
Misc :
ALS Vial : 57 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
P001-CF07-01

Integration File: autoint1.e
Quant Time: Nov 05 02:07:37 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

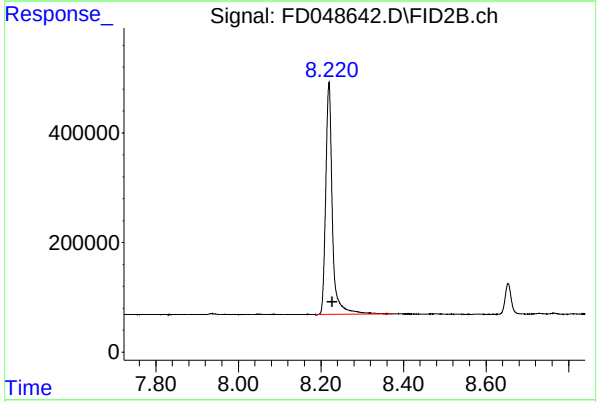




#4 2-Bromonaphthalene (SURR)

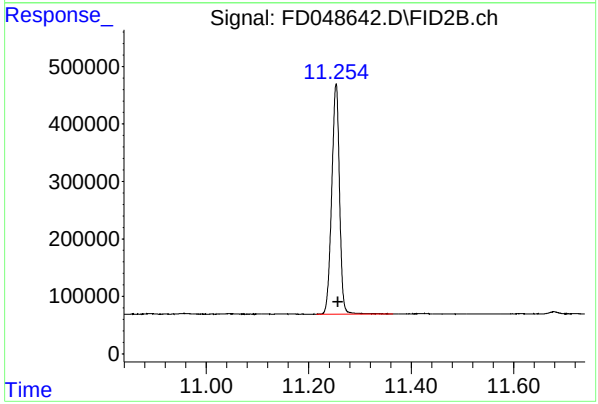
R.T.: 7.370 min
Delta R.T.: -0.005 min
Response: 7282436
Conc: 47.98 ug/ml

Instrument :
FID_D
ClientSampleId :
P001-CF07-01



#6 2-Flurobiphenyl (SURR)

R.T.: 8.219 min
Delta R.T.: -0.009 min
Response: 4741213
Conc: 48.29 ug/ml



#11 ortho-Terphenyl (SURR)

R.T.: 11.253 min
Delta R.T.: -0.004 min
Response: 4220911
Conc: 24.78 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD110424AR\
Data File : FD048642.D
Signal(s) : FID2B.ch
Acq On : 04 Nov 2024 17:14
Sample : P4620-03
Misc :
ALS Vial : 57 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	4.785	4.658	4.824	BV	3959	54027	0.74%	0.291%
2	7.370	7.344	7.464	VV	763278	7282436	100.00%	39.214%
3	8.219	8.188	8.374	PV	417466	4741213	65.10%	25.530%
4	8.654	8.614	8.699	BV	55864	567129	7.79%	3.054%
5	9.404	9.384	9.501	PB	4835	110536	1.52%	0.595%
6	11.253	11.214	11.364	BB	404552	4220911	57.96%	22.729%
7	11.678	11.654	11.704	BV	3523	41922	0.58%	0.226%
8	11.877	11.858	11.944	PV	3562	57028	0.78%	0.307%
9	12.123	12.081	12.151	BV	3979	50696	0.70%	0.273%
10	12.319	12.291	12.378	VB	3381	59242	0.81%	0.319%
11	12.694	12.651	12.794	BB	104700	1218808	16.74%	6.563%
12	14.921	14.878	15.008	PV	5596	107628	1.48%	0.580%
13	16.546	16.521	16.591	VB	4098	59255	0.81%	0.319%
			Sum of corrected areas:			18570830		

Aromatic EPH 102324.M Tue Nov 05 03:29:11 2024

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

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	10/29/24
Project:	RFP 872	Date Received:	10/29/24
Client Sample ID:	P001-CF07-01	SDG No.:	P4620
Lab Sample ID:	P4620-04	Matrix:	Water
Analytical Method:	NJEPH	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :	SW3510		

Prep Date :	Date Analyzed :	Prep Batch ID
11/03/24 08:20	11/04/24 12:11	PB164637

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	5.76	U	1	5.76	30.0	ug/l	FG014637.D
Aliphatic C12-C16	Aliphatic C12-C16	3.61	U	1	3.61	20.0	ug/l	FG014637.D
Aliphatic C16-C21	Aliphatic C16-C21	5.14	U	1	5.14	30.0	ug/l	FG014637.D
Aliphatic C21-C28	Aliphatic C21-C28	8.97	U	1	8.97	40.0	ug/l	FG014637.D
Aliphatic C28-C40	Aliphatic C28-C40	17.0	U	1	17.0	60.0	ug/l	FG014637.D
Aromatic C10-C12	Aromatic C10-C12	3.32	U	1	3.32	20.0	ug/l	FF014907.D
Aromatic C12-C16	Aromatic C12-C16	3.69	U	1	3.69	30.0	ug/l	FF014907.D
Aromatic C16-C21	Aromatic C16-C21	41.2	J	1	12.7	50.0	ug/l	FF014907.D
Aromatic C21-C36	Aromatic C21-C36	25.2	U	1	25.2	80.0	ug/l	FF014907.D
Total AliphaticEPH	Total AliphaticEPH	40.5	U		40.5	180	ug/l	
Total AromaticEPH	Total AromaticEPH	44.9	U		44.9	180	ug/l	
Total EPH	Total EPH	85.4	U		85.4	360	ug/l	

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

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Fax : 908 789 8922

Report of Analysis

Client:	Weston Solutions, Inc.		Date Collected:	10/29/24	
Project:	RFP 872		Date Received:	10/29/24	
Client Sample ID:	P001-CF07-01		SDG No.:	P4620	
Lab Sample ID:	P4620-04		Matrix:	Water	
Analytical Method:	NJEPH		% Solid:	0	
Sample Wt/Vol:	1000	Units: mL	Final Vol:	2000	uL
Soil Aliquot Vol:		uL	Test:	EPH	
Prep Method :	SW3510				

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FF014907.D	1	11/03/24	11/04/24	PB164637

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	3.32	U	3.32	20.0	ug/l
Aromatic C12-C16	Aromatic C12-C16	3.69	U	3.69	30.0	ug/l
Aromatic C16-C21	Aromatic C16-C21	41.2	J	12.7	50.0	ug/l
Aromatic C21-C36	Aromatic C21-C36	25.2	U	25.2	80.0	ug/l
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	50.5		40 - 140	101%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	50.2		40 - 140	100%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	49.6		40 - 140	99%	SPK: 50

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Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	P4620-04	Acq On:	04 Nov 2024 12:11
Client Sample ID:	P001-CF07-01	Operator:	YP\AJ
Data file:	FF014907.D	Misc:	
Instrument:	FID_F	ALS Vial:	62
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.508	6.372	416127	2.666	200	ug/ml
Aromatic C12-C16	6.373	9.064	224147	1.404	300	ug/ml
Aromatic C16-C21	9.065	13.375	3204747	20.624	500	ug/ml
Aromatic C21-C36	13.376	18.817	615264	4.145	800	ug/ml
Aromatic EPH	4.508	18.817	4460285	28.839		ug/ml
2-Bromonaphthalene (SURR)	7.992	7.992	7035504	50.45		ug/ml
2-Flurobiphenyl (SURR)	8.866	8.866	4734739	50.2		ug/ml
ortho-Terphenyl (SURR)	11.930	11.930	7938766	49.62		ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF110424AR\
Data File : FF014907.D
Signal(s) : FID2B.ch
Acq On : 04 Nov 2024 12:11
Operator : YP\AJ
Sample : P4620-04
Misc :
ALS Vial : 62 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
P001-CF07-01

Integration File: autoint1.e
Quant Time: Nov 05 01:25:43 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 102124.M
Quant Title : GC Extractables
QLast Update : Tue Oct 22 04:14:53 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...	7.992	7035504	50.454 ug/ml
Spiked Amount 50.000		Recovery = 100.91%	
6) S 2-Flurobiphenyl (SURR)	8.866	4734739	50.204 ug/ml
Spiked Amount 50.000 Range 0 - 131		Recovery = 100.41%	
11) S ortho-Terphenyl (SURR)	11.930	7938766	49.624 ug/ml
Spiked Amount 50.000		Recovery = 99.25%	
Target Compounds			

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

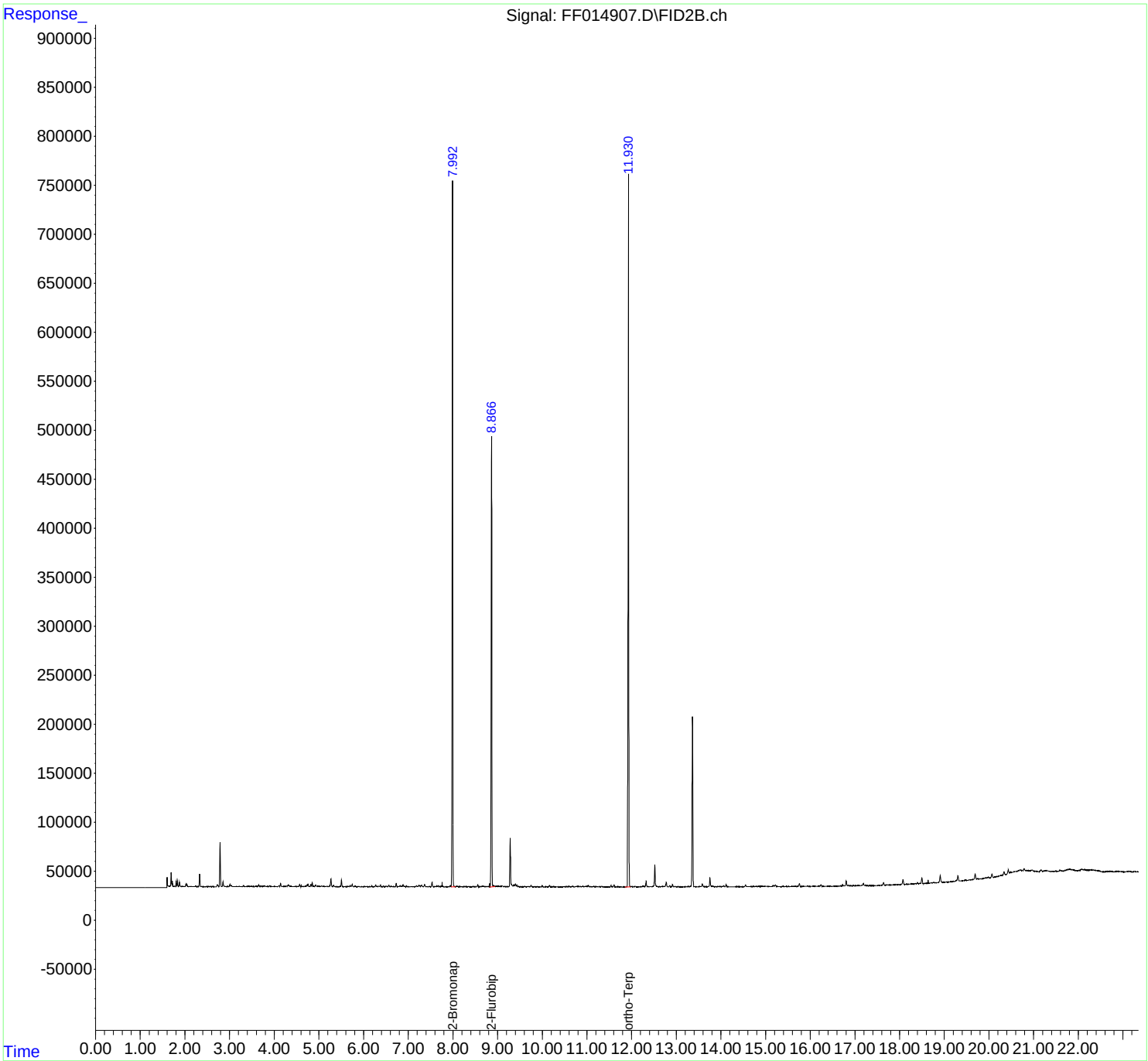
Quantitation Report (QT Reviewed)

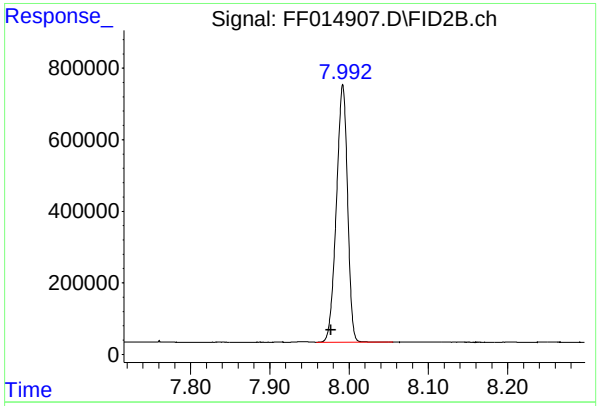
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF110424AR\
Data File : FF014907.D
Signal(s) : FID2B.ch
Acq On : 04 Nov 2024 12:11
Operator : YP\AJ
Sample : P4620-04
Misc :
ALS Vial : 62 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
P001-CF07-01

Integration File: autoint1.e
Quant Time: Nov 05 01:25:43 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 102124.M
Quant Title : GC Extractables
QLast Update : Tue Oct 22 04:14:53 2024
Response via : Initial Calibration
Integrator: ChemStation

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

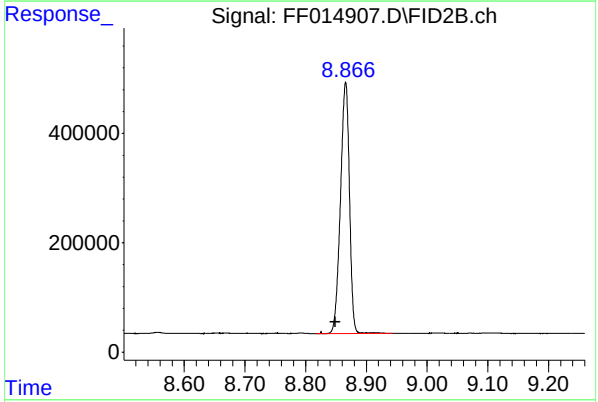




#4 2-Bromonaphthalene (SURR)

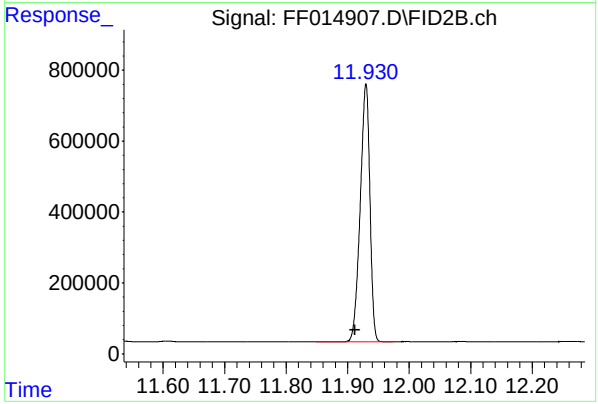
R.T.: 7.992 min
Delta R.T.: 0.014 min
Response: 7035504
Conc: 50.45 ug/ml

Instrument :
FID_F
ClientSampleId :
P001-CF07-01



#6 2-Flurobiphenyl (SURR)

R.T.: 8.866 min
Delta R.T.: 0.017 min
Response: 4734739
Conc: 50.20 ug/ml



#11 ortho-Terphenyl (SURR)

R.T.: 11.930 min
Delta R.T.: 0.018 min
Response: 7938766
Conc: 49.62 ug/ml

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF110424AR\
Data File : FF014907.D
Signal(s) : FID2B.ch
Acq On : 04 Nov 2024 12:11
Sample : P4620-04
Misc :
ALS Vial : 62 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 102124.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	4.569	4.532	4.590	BV	2220	22821	0.29%	0.094%
2	4.732	4.712	4.743	PV	1739	16244	0.20%	0.067%
3	4.757	4.743	4.782	VV	2492	26037	0.33%	0.108%
4	4.820	4.782	4.837	VV	2202	25482	0.32%	0.105%
5	4.853	4.837	4.902	VB	3907	41247	0.52%	0.171%
6	4.926	4.905	4.954	BV	1677	18291	0.23%	0.076%
7	5.270	5.210	5.297	BV	7981	109689	1.38%	0.454%
8	5.330	5.297	5.365	PV	1700	22917	0.29%	0.095%
9	5.506	5.424	5.545	BB	6971	74362	0.94%	0.308%
10	5.748	5.719	5.790	VV	2612	34117	0.43%	0.141%
11	6.271	6.210	6.315	BV	1902	24920	0.31%	0.103%
12	6.378	6.357	6.404	BB	1844	17932	0.23%	0.074%
13	6.569	6.542	6.589	VV	1710	18365	0.23%	0.076%
14	6.731	6.695	6.752	BV	3352	32689	0.41%	0.135%
15	6.885	6.867	6.907	PV	2116	20138	0.25%	0.083%
16	7.368	7.335	7.435	VB	2495	38490	0.48%	0.159%
17	7.534	7.502	7.569	BV	4696	55726	0.70%	0.231%
18	7.761	7.753	7.797	VB	2948	13714	0.17%	0.057%
19	7.992	7.958	8.055	PB	721320	7035504	88.62%	29.109%
20	8.556	8.489	8.599	BB	2128	27093	0.34%	0.112%
21	8.866	8.817	8.944	PV	459492	4734739	59.64%	19.590%
22	9.284	9.239	9.345	BV	49546	552827	6.96%	2.287%
23	9.362	9.345	9.377	VV	1719	17358	0.22%	0.072%
24	9.400	9.377	9.419	VV	2393	27389	0.35%	0.113%
25	10.163	10.119	10.185	BB	1741	24173	0.30%	0.100%
26	11.537	11.495	11.564	BV	1720	21016	0.26%	0.087%
27	11.607	11.564	11.635	VV	2244	30854	0.39%	0.128%
28	11.930	11.849	11.974	BV	731028	7938766	100.00%	32.846%
29	12.326	12.299	12.351	VV	6147	70657	0.89%	0.292%
30	12.518	12.459	12.627	VB	22870	286745	3.61%	1.186%
31	12.775	12.634	12.820	BB	4732	90585	1.14%	0.375%
32	12.915	12.882	12.939	PV	2510	30956	0.39%	0.128%
33	13.362	13.302	13.394	BB	173586	2052187	25.85%	8.491%
34	13.581	13.475	13.627	BV	3010	48666	0.61%	0.201%
35	13.752	13.672	13.802	BB	8976	95660	1.20%	0.396%
36	14.113	14.086	14.159	PB	1966	26505	0.33%	0.110%

rteres

37	14.549	14.452	14.585	BB	1823	21641	0.27%	0.090%
38	15.217	15.190	15.267	VB	1824	30194	0.38%	0.125%
39	15.755	15.684	15.802	BB	2960	41769	0.53%	0.173%
40	16.238	16.216	16.269	VV	1670	21925	0.28%	0.091%
41	16.803	16.767	16.831	BV	4965	64549	0.81%	0.267%
42	17.188	17.109	17.214	BV	2290	37520	0.47%	0.155%
43	17.639	17.477	17.689	BB	2660	44030	0.55%	0.182%
44	18.075	17.970	18.112	BB	4981	81805	1.03%	0.338%
45	18.498	18.468	18.530	VB	5982	86534	1.09%	0.358%
46	18.640	18.552	18.727	BV	2320	14466	0.18%	0.060%

Sum of corrected areas: 24169291

Aromatic EPH 102124.M Tue Nov 05 01:56:49 2024

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

Report of Analysis

Client:	Weston Solutions, Inc.		Date Collected:	10/29/24	
Project:	RFP 872		Date Received:	10/29/24	
Client Sample ID:	P001-CF07-01		SDG No.:	P4620	
Lab Sample ID:	P4620-04		Matrix:	Water	
Analytical Method:	NJEPH		% Solid:	0	
Sample Wt/Vol:	1000	Units: mL	Final Vol:	2000	uL
Soil Aliquot Vol:		uL	Test:	EPH	
Prep Method :	SW3510				

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FG014637.D	1	11/03/24	11/04/24	PB164637

CAS Number	Parameter		Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
Aliphatic C9-C12	Aliphatic C9-C12		5.76	U	5.76	30.0	ug/l
Aliphatic C12-C16	Aliphatic C12-C16		3.61	U	3.61	20.0	ug/l
Aliphatic C16-C21	Aliphatic C16-C21		5.14	U	5.14	30.0	ug/l
Aliphatic C21-C28	Aliphatic C21-C28		8.97	U	8.97	40.0	ug/l
Aliphatic C28-C40	Aliphatic C28-C40		17.0	U	17.0	60.0	ug/l
SURROGATES							
3383-33-2	1-chlorooctadecane (SURR)		44.5		40 - 140	89%	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:	P4620-04	Acq On:	04 Nov 2024 12:11
Client Sample ID:	P001-CF07-01	Operator:	YP\AJ
Data file:	FG014637.D	Misc:	
Instrument:	FID_G	ALS Vial:	12
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.228	6.849	78202	0.595	300	ug/ml
Aliphatic C12-C16	6.850	10.292	43472	0.32	200	ug/ml
Aliphatic C16-C21	10.293	13.665	132081	0.935	300	ug/ml
Aliphatic C21-C28	13.666	17.329	0	0	400	ug/ml
Aliphatic C28-C40	17.330	22.266	10422	0.099	600	ug/ml
Aliphatic EPH	3.228	22.266	264177	1.949		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	13.398	13.398	5470035	44.55		ug/ml
Aliphatic C9-C28	3.228	17.329	253755	1.85	1200	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG110424AL\
Data File : FG014637.D
Signal(s) : FID1A.ch
Acq On : 04 Nov 2024 12:11
Operator : YP\AJ
Sample : P4620-04
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
P001-CF07-01

Integration File: autoint1.e
Quant Time: Nov 05 00:36:18 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 102124.M
Quant Title : GC Extractables
QLast Update : Tue Oct 22 06:49:54 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...	13.398	5470035	44.548 ug/ml
Spiked Amount 50.000		Recovery = 89.10%	
Target Compounds			

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

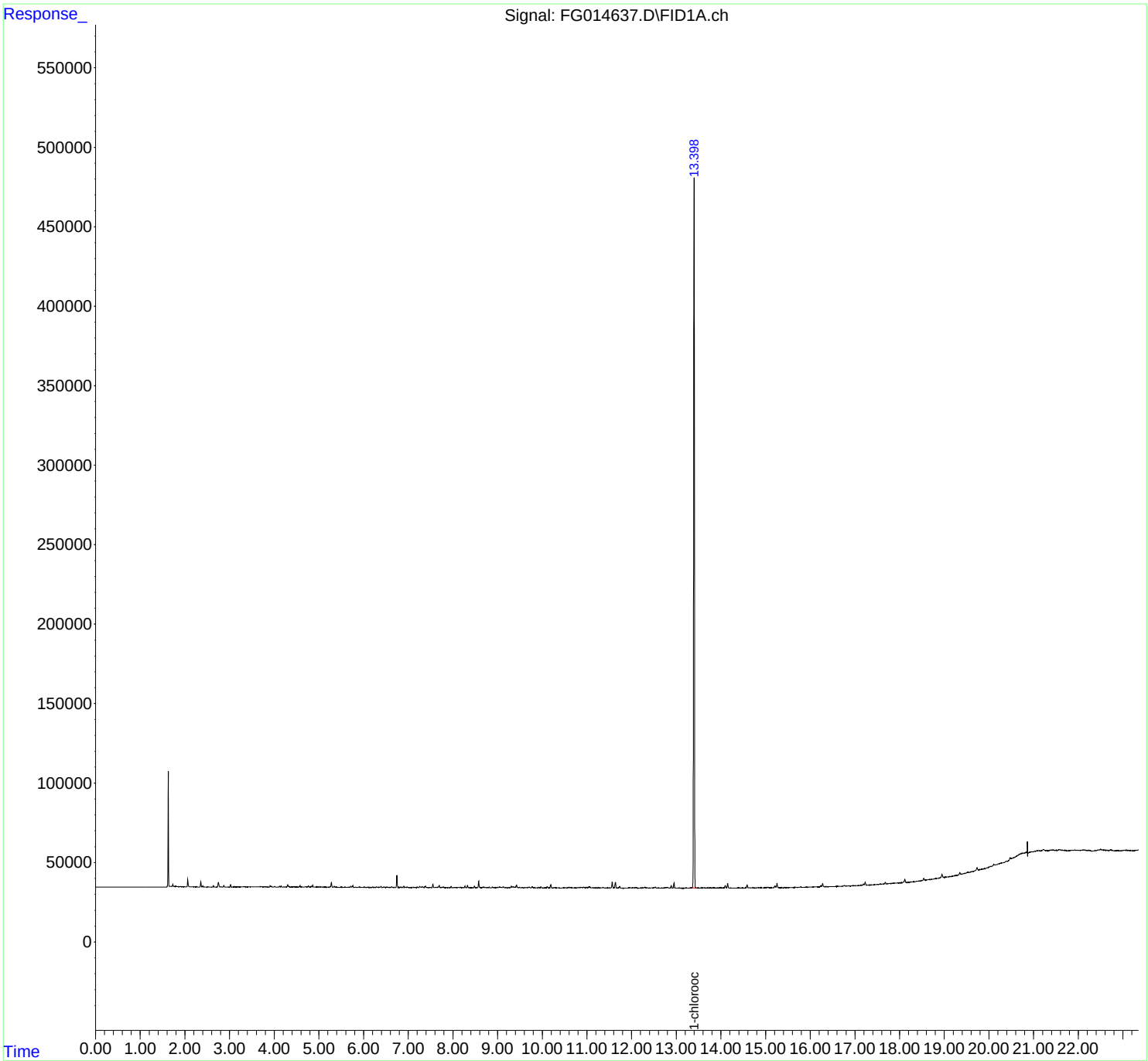
Quantitation Report (QT Reviewed)

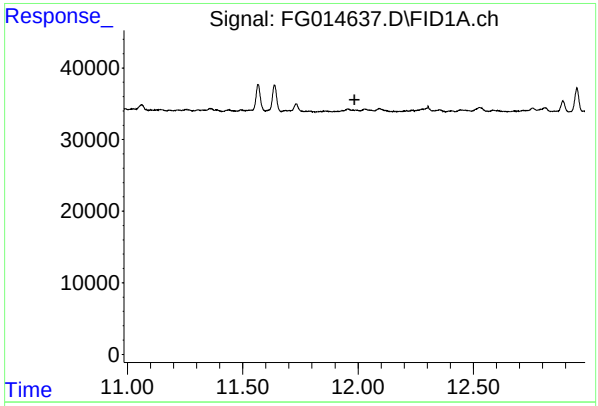
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG110424AL\
Data File : FG014637.D
Signal(s) : FID1A.ch
Acq On : 04 Nov 2024 12:11
Operator : YP\AJ
Sample : P4620-04
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
P001-CF07-01

Integration File: autoint1.e
Quant Time: Nov 05 00:36:18 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 102124.M
Quant Title : GC Extractables
QLast Update : Tue Oct 22 06:49:54 2024
Response via : Initial Calibration
Integrator: ChemStation

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

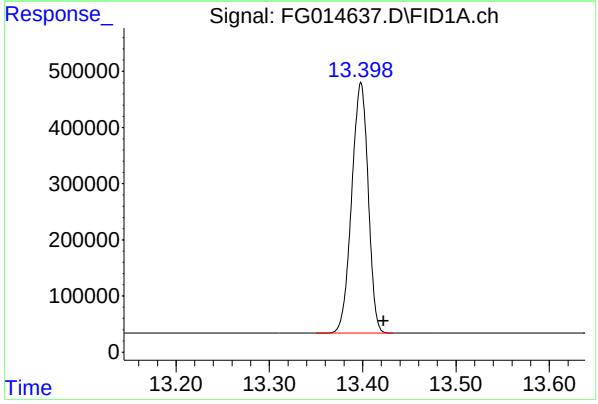




#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.984 min
Response: 0
Conc: N.D.

Instrument :
FID_G
ClientSampleId :
P001-CF07-01



#12 1-chlorooctadecane (SURR)

R.T.: 13.398 min
Delta R.T.: -0.024 min
Response: 5470035
Conc: 44.55 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG110424AL\
Data File : FG014637.D
Signal(s) : FID1A.ch
Acq On : 04 Nov 2024 12:11
Sample : P4620-04
Misc :
ALS Vial : 12 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 102124.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	6.747	6.720	6.780	BB	7751	78202	1.43%	1.364%
2	8.578	8.543	8.605	BB	4055	43472	0.79%	0.758%
3	11.566	11.530	11.599	BB	3672	46454	0.85%	0.810%
4	11.638	11.603	11.667	BB	3652	47010	0.86%	0.820%
5	12.949	12.913	12.972	BB	3310	38617	0.71%	0.673%
6	13.398	13.350	13.433	BB	446594	5470035	100.00%	95.393%
7	20.860	20.846	20.878	BB	6186	10422	0.19%	0.182%
			Sum of corrected areas:			5734211		

Aliphatic EPH 102124.M Tue Nov 05 01:17:50 2024

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Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	10/29/24
Project:	RFP 872	Date Received:	10/29/24
Client Sample ID:	P001-CF08-01	SDG No.:	P4620
Lab Sample ID:	P4620-05	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	95.1
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
11/03/24 08:45	11/04/24 17:50	PB164618

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	0.40	U	1	0.40	1.05	mg/kg	FC067606.D
Aliphatic C12-C16	Aliphatic C12-C16	0.25	U	1	0.25	0.70	mg/kg	FC067606.D
Aliphatic C16-C21	Aliphatic C16-C21	0.32	U	1	0.32	1.05	mg/kg	FC067606.D
Aliphatic C21-C28	Aliphatic C21-C28	0.84	U	1	0.84	1.40	mg/kg	FC067606.D
Aliphatic C28-C40	Aliphatic C28-C40	1.89	U	1	1.89	2.10	mg/kg	FC067606.D
Aromatic C10-C12	Aromatic C10-C12	0.32	U	1	0.32	0.70	mg/kg	FD048643.D
Aromatic C12-C16	Aromatic C12-C16	0.36	U	1	0.36	1.05	mg/kg	FD048643.D
Aromatic C16-C21	Aromatic C16-C21	1.01	U	1	1.01	1.75	mg/kg	FD048643.D
Aromatic C21-C36	Aromatic C21-C36	2.10	U	1	2.10	2.80	mg/kg	FD048643.D
Total AliphaticEPH	Total AliphaticEPH	3.70	U		3.70	6.30	mg/kg	
Total AromaticEPH	Total AromaticEPH	3.78	U		3.78	6.30	mg/kg	
Total EPH	Total EPH	7.48	U		7.48	12.6	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:	Weston Solutions, Inc.	Date Collected:	10/29/24
Project:	RFP 872	Date Received:	10/29/24
Client Sample ID:	P001-CF08-01	SDG No.:	P4620
Lab Sample ID:	P4620-05	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	95.1
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
FC067606.D	1	11/03/24	11/04/24	PB164618

CAS Number	Parameter		Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
Aliphatic C9-C12	Aliphatic C9-C12		0.40	U	0.40	1.05	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16		0.25	U	0.25	0.70	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21		0.32	U	0.32	1.05	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28		0.84	U	0.84	1.40	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40		1.89	U	1.89	2.10	mg/kg
SURROGATES							
3383-33-2	1-chlorooctadecane (SURR)		33.2		40 - 140	66%	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:	P4620-05	Acq On:	04 Nov 2024 17:50
Client Sample ID:	P001-CF08-01	Operator:	YP/AJ
Data file:	FC067606.D	Misc:	
Instrument:	FID_C	ALS Vial:	8
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.171	6.449	54091	0.399	300	ug/ml
Aliphatic C12-C16	6.450	9.838	199360	1.514	200	ug/ml
Aliphatic C16-C21	9.839	13.196	0	0	300	ug/ml
Aliphatic C21-C28	13.197	16.847	0	0	400	ug/ml
Aliphatic C28-C40	16.848	21.685	0	0	600	ug/ml
Aliphatic EPH	3.171	21.685	253451	1.913		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	12.929	12.929	3589582	33.24		ug/ml
Aliphatic C9-C28	3.171	16.847	253451	1.913	1200	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC110424AL\
Data File : FC067606.D
Signal(s) : FID1A.ch
Acq On : 04 Nov 2024 17:50
Operator : YP/AJ
Sample : P4620-05
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
P001-CF08-01

Integration File: autoint1.e
Quant Time: Nov 05 03:44:19 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...	12.929	3589582	33.240 ug/ml
Spiked Amount 50.000		Recovery = 66.48%	
Target Compounds			

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

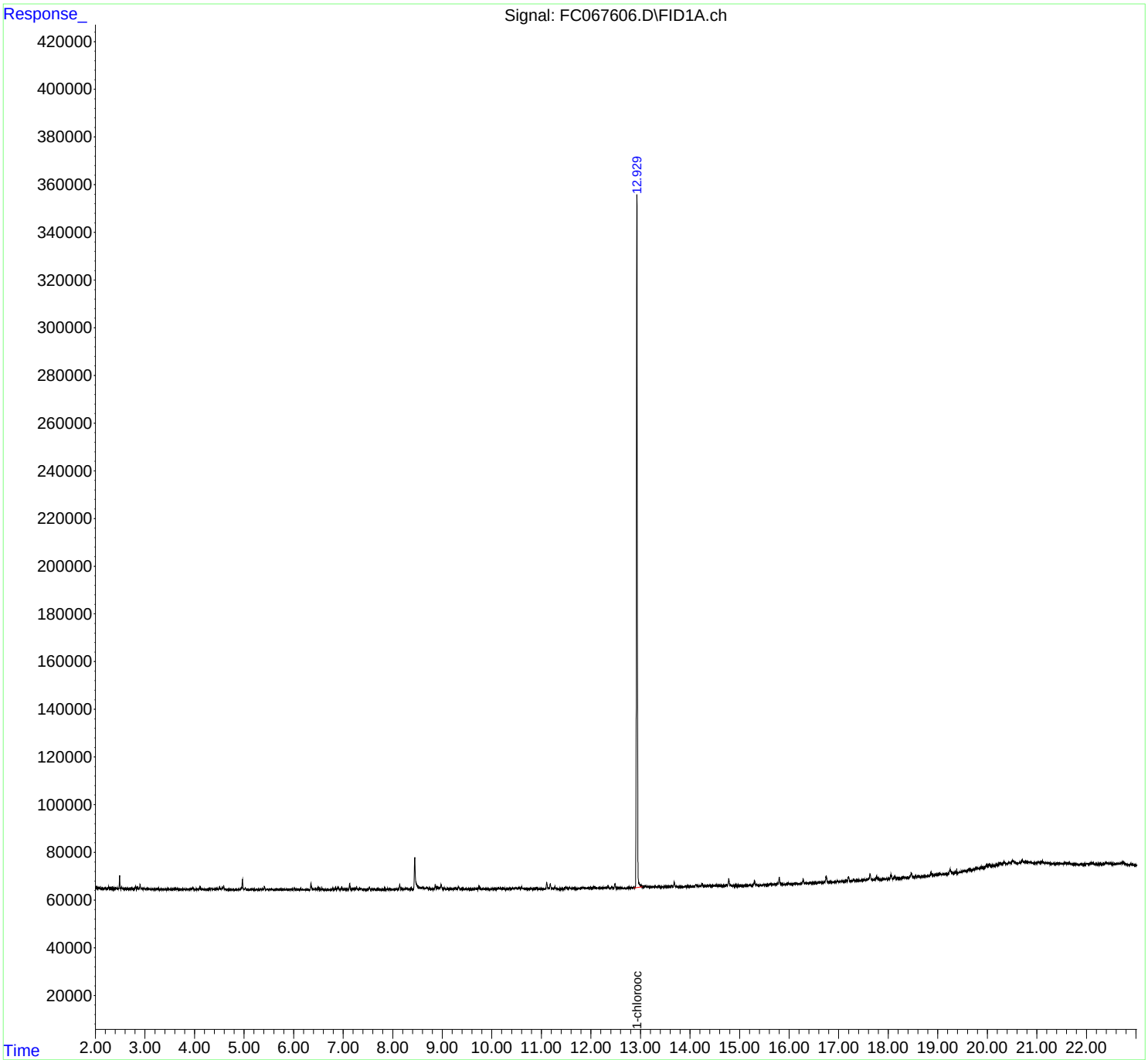
Quantitation Report (QT Reviewed)

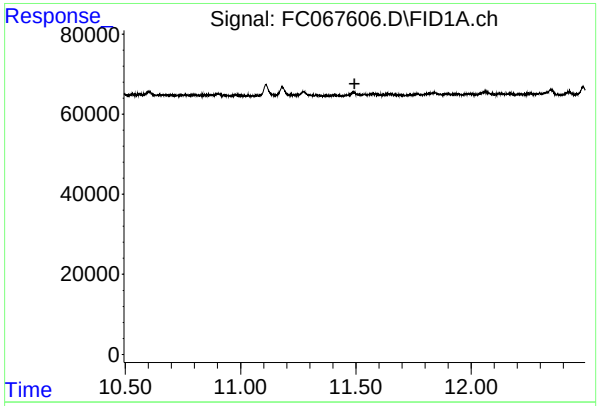
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC110424AL\
Data File : FC067606.D
Signal(s) : FID1A.ch
Acq On : 04 Nov 2024 17:50
Operator : YP/AJ
Sample : P4620-05
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
P001-CF08-01

Integration File: autoint1.e
Quant Time: Nov 05 03:44:19 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

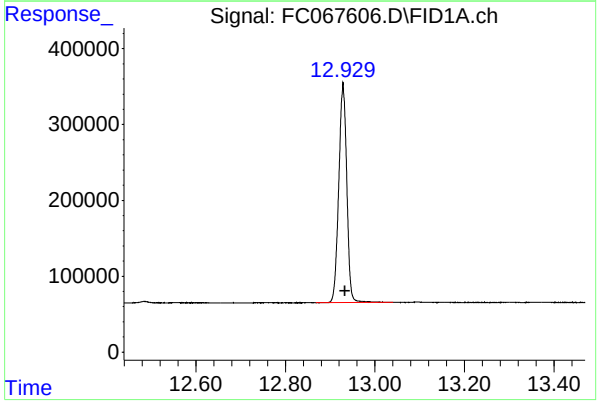




#9 ortho-Terphenyl (SURR)

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

Instrument :
FID_C
ClientSampleId :
P001-CF08-01



#12 1-chlorooctadecane (SURR)

R.T.: 12.929 min
Delta R.T.: -0.004 min
Response: 3589582
Conc: 33.24 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC110424AL\
Data File : FC067606.D
Signal(s) : FID1A.ch
Acq On : 04 Nov 2024 17:50
Sample : P4620-05
Misc :
ALS Vial : 8 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	4.967	4.912	4.997	BV	4237	54091	1.51%	1.407%
2	8.446	8.352	8.520	BB	13075	199360	5.55%	5.188%
3	12.929	12.869	13.040	BB	287399	3589582	100.00%	93.405%
			Sum of corrected areas:			3843033		

Aliphatic EPH 102324.M Tue Nov 05 05:27:39 2024

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Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	10/29/24
Project:	RFP 872	Date Received:	10/29/24
Client Sample ID:	P001-CF08-01	SDG No.:	P4620
Lab Sample ID:	P4620-05	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	95.1
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
FD048643.D	1	11/03/24	11/04/24	PB164618

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	0.32	U	0.32	0.70	mg/kg
Aromatic C12-C16	Aromatic C12-C16	0.36	U	0.36	1.05	mg/kg
Aromatic C16-C21	Aromatic C16-C21	1.01	U	1.01	1.75	mg/kg
Aromatic C21-C36	Aromatic C21-C36	2.10	U	2.10	2.80	mg/kg
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	46.5		40 - 140	93%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	44.2		40 - 140	88%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	26.9		40 - 140	54%	SPK: 50

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Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	P4620-05	Acq On:	04 Nov 2024 17:50
Client Sample ID:	P001-CF08-01	Operator:	YP/AJ
Data file:	FD048643.D	Misc:	
Instrument:	FID_D	ALS Vial:	58
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic EPH	4.093	18.080	2793715	17.555		ug/ml
ortho-Terphenyl (SURR)	11.254	11.254	4575119	26.86		ug/ml
2-Bromonaphthalene (SURR)	7.371	7.371	7059900	46.51		ug/ml
2-Flurobiphenyl (SURR)	8.220	8.220	4344369	44.24		ug/ml
Aromatic C10-C12	4.093	5.811	87005	0.494	200	ug/ml
Aromatic C12-C16	5.812	8.416	45601	0.257	300	ug/ml
Aromatic C16-C21	8.417	12.676	1398507	8.536	500	ug/ml
Aromatic C21-C36	12.677	18.080	1262602	8.268	800	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD110424AR\
Data File : FD048643.D
Signal(s) : FID2B.ch
Acq On : 04 Nov 2024 17:50
Operator : YP/AJ
Sample : P4620-05
Misc :
ALS Vial : 58 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
P001-CF08-01

Integration File: autoint1.e
Quant Time: Nov 05 02:07:46 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	7059900	46.514 ug/ml
Spiked Amount 50.000		Recovery =	93.03%
6) S 2-Flurobiphenyl (SURR)	8.220	4344369	44.244 ug/ml
Spiked Amount 50.000 Range	0 - 131	Recovery =	88.49%
11) S ortho-Terphenyl (SURR)	11.254	4575119	26.859 ug/ml
Spiked Amount 50.000		Recovery =	53.72%
Target Compounds			

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

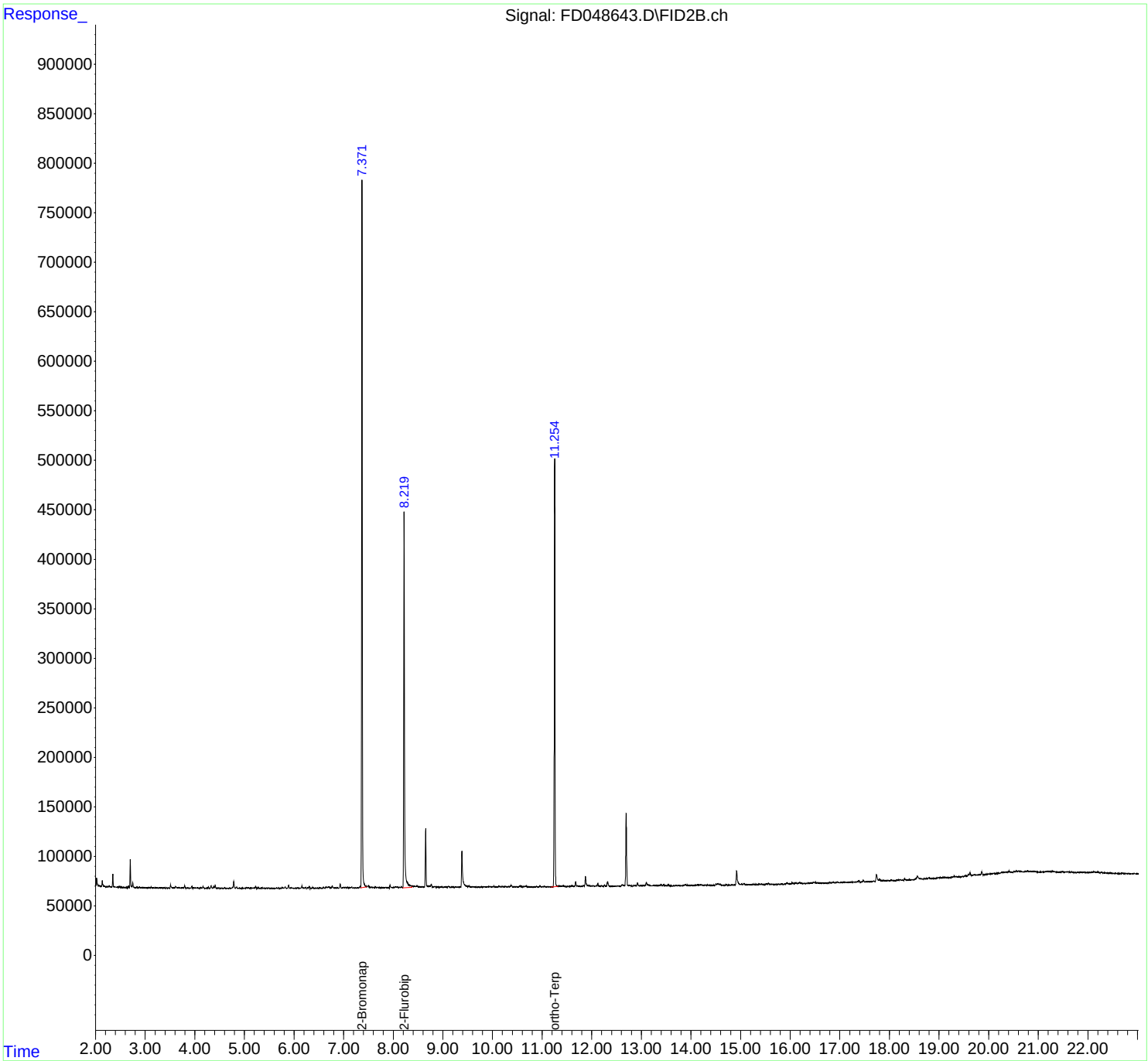
Quantitation Report (QT Reviewed)

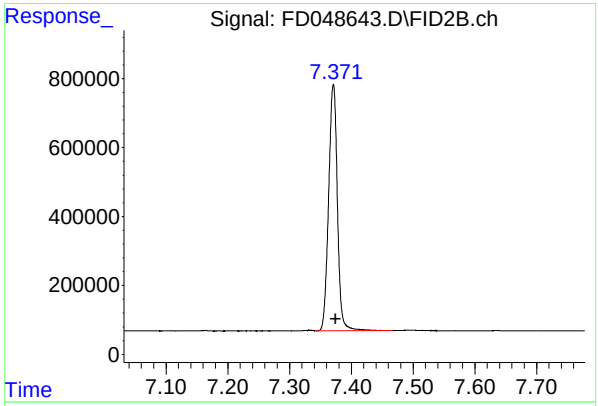
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD110424AR\
Data File : FD048643.D
Signal(s) : FID2B.ch
Acq On : 04 Nov 2024 17:50
Operator : YP/AJ
Sample : P4620-05
Misc :
ALS Vial : 58 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
P001-CF08-01

Integration File: autoint1.e
Quant Time: Nov 05 02:07:46 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

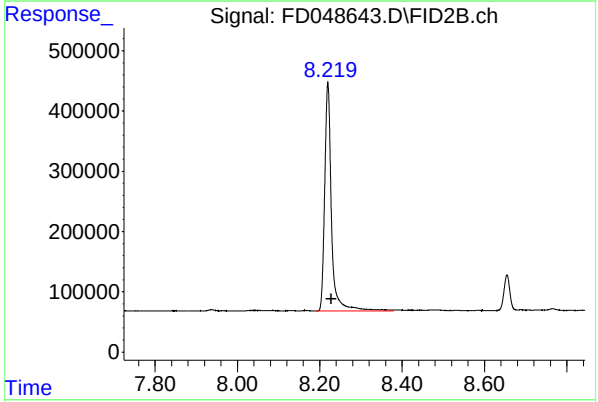




#4 2-Bromonaphthalene (SURR)

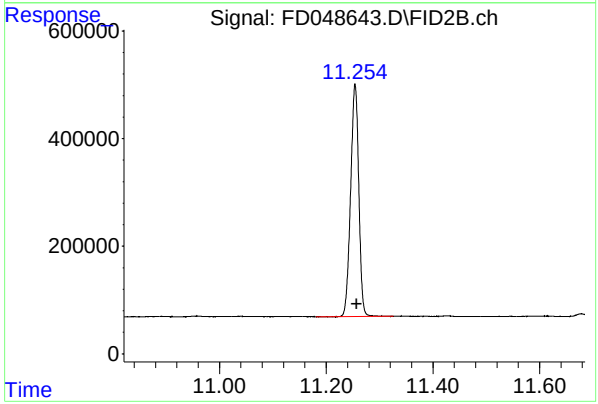
R.T.: 7.371 min
Delta R.T.: -0.004 min
Response: 7059900
Conc: 46.51 ug/ml

Instrument :
FID_D
ClientSampleId :
P001-CF08-01



#6 2-Flurobiphenyl (SURR)

R.T.: 8.220 min
Delta R.T.: -0.008 min
Response: 4344369
Conc: 44.24 ug/ml



#11 ortho-Terphenyl (SURR)

R.T.: 11.254 min
Delta R.T.: -0.003 min
Response: 4575119
Conc: 26.86 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD110424AR\
Data File : FD048643.D
Signal(s) : FID2B.ch
Acq On : 04 Nov 2024 17:50
Sample : P4620-05
Misc :
ALS Vial : 58 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	4.785	4.728	4.814	BV	6853	87005	1.23%	0.463%
2	6.932	6.908	6.954	BV	4301	45601	0.65%	0.243%
3	7.371	7.343	7.467	PV	716861	7059900	100.00%	37.606%
4	8.220	8.191	8.378	PV	378083	4344369	61.54%	23.141%
5	8.655	8.604	8.714	PV	58996	589227	8.35%	3.139%
6	9.386	9.281	9.508	BV	36218	540261	7.65%	2.878%
7	11.254	11.181	11.325	BV	432065	4575119	64.80%	24.371%
8	11.678	11.648	11.703	BV	4899	60208	0.85%	0.321%
9	11.874	11.851	11.941	PV	9559	128519	1.82%	0.685%
10	12.320	12.280	12.374	PB	4731	80292	1.14%	0.428%
11	12.695	12.658	12.728	BV	73244	834782	11.82%	4.447%
12	13.101	13.028	13.174	PB	3295	74374	1.05%	0.396%
13	14.919	14.881	15.014	BV	14173	247317	3.50%	1.317%
14	17.739	17.701	17.788	BV	6419	106129	1.50%	0.565%

Sum of corrected areas: 18773103

Aromatic EPH 102324.M Tue Nov 05 03:29:24 2024

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

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	10/29/24
Project:	RFP 872	Date Received:	10/29/24
Client Sample ID:	P001-CF08-01	SDG No.:	P4620
Lab Sample ID:	P4620-06	Matrix:	Water
Analytical Method:	NJEPH	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :	SW3510		

Prep Date :	Date Analyzed :	Prep Batch ID
11/03/24 08:20	11/04/24 12:39	PB164637

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	5.76	U	1	5.76	30.0	ug/l	FG014638.D
Aliphatic C12-C16	Aliphatic C12-C16	3.61	U	1	3.61	20.0	ug/l	FG014638.D
Aliphatic C16-C21	Aliphatic C16-C21	5.14	U	1	5.14	30.0	ug/l	FG014638.D
Aliphatic C21-C28	Aliphatic C21-C28	8.97	U	1	8.97	40.0	ug/l	FG014638.D
Aliphatic C28-C40	Aliphatic C28-C40	17.0	U	1	17.0	60.0	ug/l	FG014638.D
Aromatic C10-C12	Aromatic C10-C12	3.32	U	1	3.32	20.0	ug/l	FF014908.D
Aromatic C12-C16	Aromatic C12-C16	3.69	U	1	3.69	30.0	ug/l	FF014908.D
Aromatic C16-C21	Aromatic C16-C21	52.8		1	12.7	50.0	ug/l	FF014908.D
Aromatic C21-C36	Aromatic C21-C36	25.2	U	1	25.2	80.0	ug/l	FF014908.D
Total AliphaticEPH	Total AliphaticEPH	40.5	U		40.5	180	ug/l	
Total AromaticEPH	Total AromaticEPH	52.8	J		44.9	180	ug/l	
Total EPH	Total EPH	85.4	U		85.4	360	ug/l	

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

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

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

Report of Analysis

Client:	Weston Solutions, Inc.		Date Collected:	10/29/24	
Project:	RFP 872		Date Received:	10/29/24	
Client Sample ID:	P001-CF08-01		SDG No.:	P4620	
Lab Sample ID:	P4620-06		Matrix:	Water	
Analytical Method:	NJEPH		% Solid:	0	
Sample Wt/Vol:	1000	Units: mL	Final Vol:	2000	uL
Soil Aliquot Vol:		uL	Test:	EPH	
Prep Method :	SW3510				

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FF014908.D	1	11/03/24	11/04/24	PB164637

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	3.32	U	3.32	20.0	ug/l
Aromatic C12-C16	Aromatic C12-C16	3.69	U	3.69	30.0	ug/l
Aromatic C16-C21	Aromatic C16-C21	52.8		12.7	50.0	ug/l
Aromatic C21-C36	Aromatic C21-C36	25.2	U	25.2	80.0	ug/l
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	51.4		40 - 140	103%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	50.8		40 - 140	102%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	50.8		40 - 140	102%	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:	P4620-06	Acq On:	04 Nov 2024 12:39
Client Sample ID:	P001-CF08-01	Operator:	YP\AJ
Data file:	FF014908.D	Misc:	
Instrument:	FID_F	ALS Vial:	63
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.508	6.372	297648	1.907	200	ug/ml
Aromatic C12-C16	6.373	9.064	233338	1.462	300	ug/ml
Aromatic C16-C21	9.065	13.375	4102134	26.4	500	ug/ml
Aromatic C21-C36	13.376	18.817	194513	1.31	800	ug/ml
Aromatic EPH	4.508	18.817	4827633	31.079		ug/ml
ortho-Terphenyl (SURR)	11.930	11.930	8127769	50.81		ug/ml
2-Bromonaphthalene (SURR)	7.993	7.993	7167133	51.4		ug/ml
2-Flurobiphenyl (SURR)	8.867	8.867	4795052	50.84		ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF110424AR\
Data File : FF014908.D
Signal(s) : FID2B.ch
Acq On : 04 Nov 2024 12:39
Operator : YP\AJ
Sample : P4620-06
Misc :
ALS Vial : 63 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
P001-CF08-01

Integration File: autoint1.e
Quant Time: Nov 05 01:25:52 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 102124.M
Quant Title : GC Extractables
QLast Update : Tue Oct 22 04:14:53 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...	7.993	7167133	51.397 ug/ml
Spiked Amount 50.000		Recovery = 102.79%	
6) S 2-Flurobiphenyl (SURR)	8.867	4795052	50.843 ug/ml
Spiked Amount 50.000 Range 0 - 131		Recovery = 101.69%	
11) S ortho-Terphenyl (SURR)	11.930	8127769	50.806 ug/ml
Spiked Amount 50.000		Recovery = 101.61%	
Target Compounds			

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

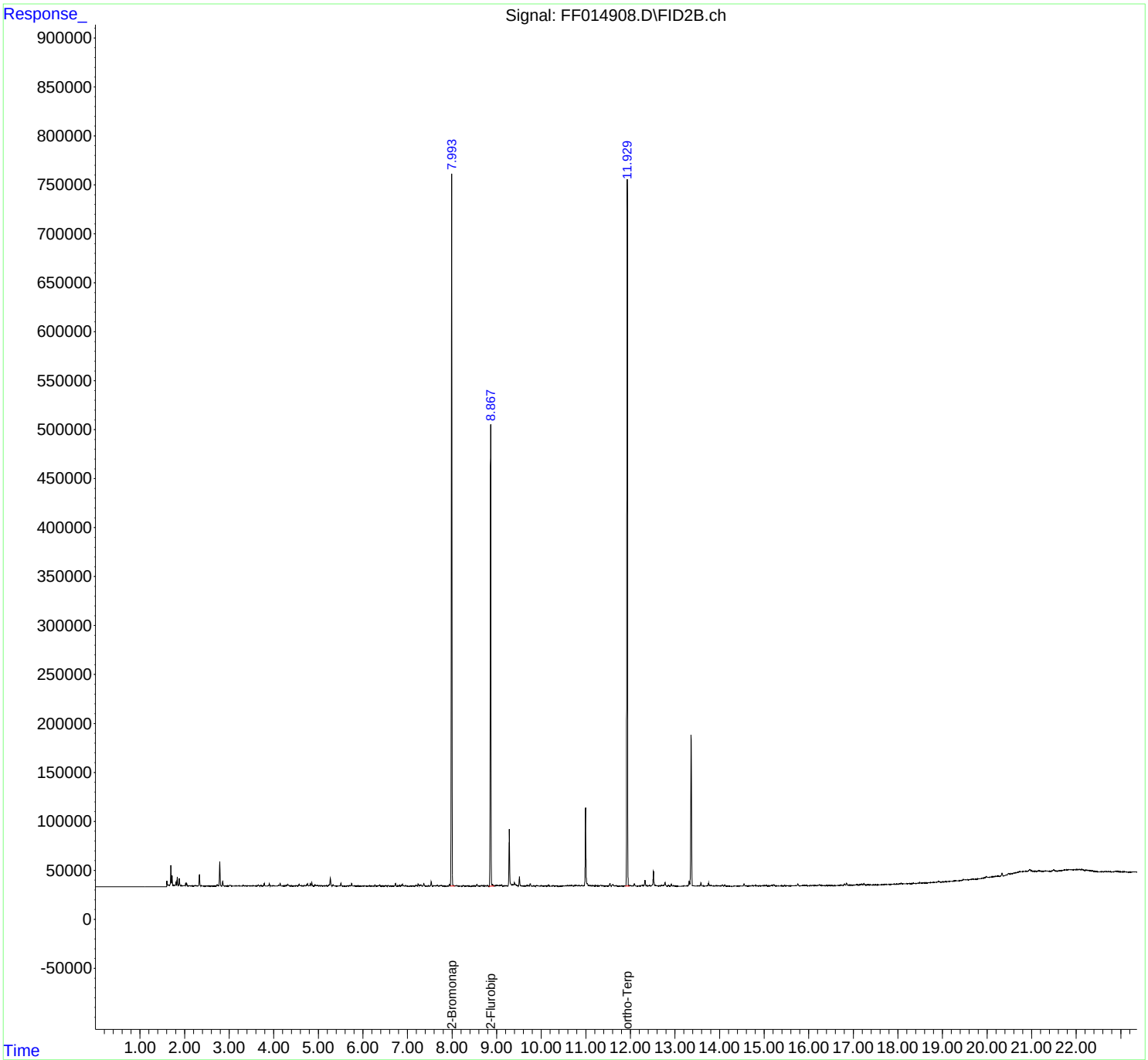
Quantitation Report (QT Reviewed)

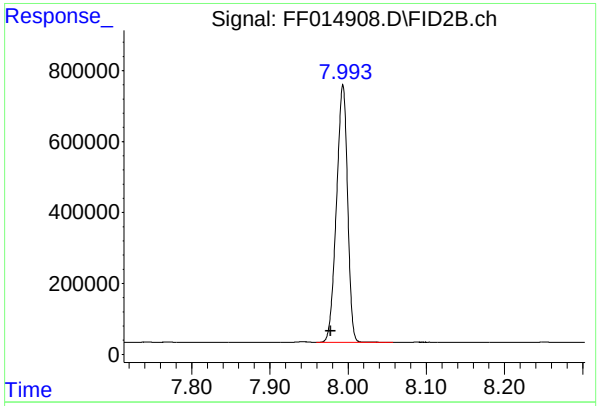
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF110424AR\
Data File : FF014908.D
Signal(s) : FID2B.ch
Acq On : 04 Nov 2024 12:39
Operator : YP\AJ
Sample : P4620-06
Misc :
ALS Vial : 63 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
P001-CF08-01

Integration File: autoint1.e
Quant Time: Nov 05 01:25:52 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 102124.M
Quant Title : GC Extractables
QLast Update : Tue Oct 22 04:14:53 2024
Response via : Initial Calibration
Integrator: ChemStation

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

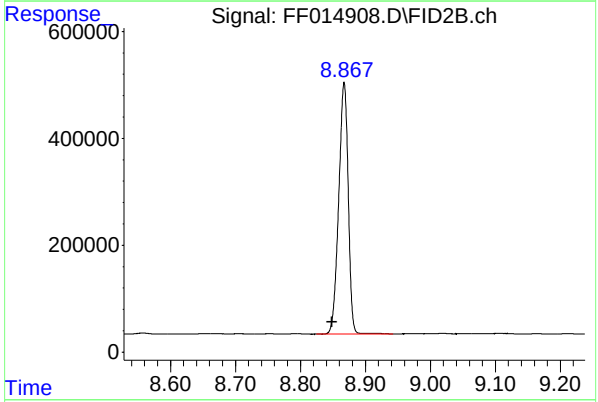




#4 2-Bromonaphthalene (SURR)

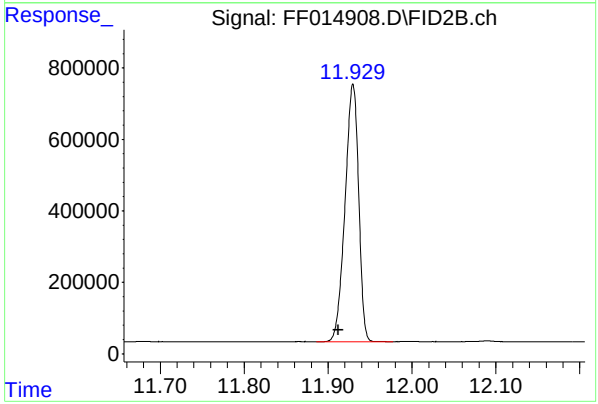
R.T.: 7.993 min
Delta R.T.: 0.016 min
Response: 7167133
Conc: 51.40 ug/ml

Instrument :
FID_F
ClientSampleId :
P001-CF08-01



#6 2-Flurobiphenyl (SURR)

R.T.: 8.867 min
Delta R.T.: 0.018 min
Response: 4795052
Conc: 50.84 ug/ml



#11 ortho-Terphenyl (SURR)

R.T.: 11.930 min
Delta R.T.: 0.018 min
Response: 8127769
Conc: 50.81 ug/ml

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF110424AR\
Data File : FF014908.D
Signal(s) : FID2B.ch
Acq On : 04 Nov 2024 12:39
Sample : P4620-06
Misc :
ALS Vial : 63 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 102124.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	4.570	4.532	4.591	BV	1995	20068	0.25%	0.081%
2	4.758	4.714	4.782	PV	2474	31468	0.39%	0.126%
3	4.821	4.782	4.837	PV	2358	25496	0.31%	0.102%
4	4.854	4.837	4.884	VB	3673	36551	0.45%	0.147%
5	5.271	5.252	5.301	VV	8228	97902	1.20%	0.393%
6	5.332	5.301	5.369	PB	1685	21282	0.26%	0.085%
7	5.508	5.489	5.542	VB	3187	31813	0.39%	0.128%
8	5.749	5.719	5.792	VV	2798	33068	0.41%	0.133%
9	6.732	6.599	6.757	BV	3094	40191	0.49%	0.161%
10	6.886	6.868	6.906	VV	2026	19787	0.24%	0.079%
11	7.242	7.219	7.277	VV	2462	42026	0.52%	0.169%
12	7.369	7.339	7.421	PB	2635	37394	0.46%	0.150%
13	7.535	7.506	7.574	BV	4747	51292	0.63%	0.206%
14	7.942	7.901	7.959	BV	1871	19457	0.24%	0.078%
15	7.993	7.959	8.057	VV	724322	7167133	88.18%	28.763%
16	8.557	8.494	8.579	PV	1849	23191	0.29%	0.093%
17	8.867	8.824	8.942	BB	472297	4795052	59.00%	19.244%
18	9.286	9.239	9.347	BV	58035	655309	8.06%	2.630%
19	9.401	9.379	9.424	VV	3377	52829	0.65%	0.212%
20	9.513	9.491	9.551	VV	9487	104295	1.28%	0.419%
21	9.755	9.689	9.796	BV	2360	30901	0.38%	0.124%
22	10.995	10.938	11.069	PV	79996	901184	11.09%	3.617%
23	11.543	11.487	11.569	BV	2678	35741	0.44%	0.143%
24	11.608	11.569	11.641	VB	1708	32019	0.39%	0.128%
25	11.930	11.886	11.977	BV	721278	8127769	100.00%	32.619%
26	12.090	12.024	12.132	BB	2235	29343	0.36%	0.118%
27	12.326	12.286	12.352	VV	5884	72949	0.90%	0.293%
28	12.518	12.459	12.616	BB	15175	204319	2.51%	0.820%
29	12.775	12.737	12.822	VB	3726	59493	0.73%	0.239%
30	12.915	12.884	12.939	PV	1950	23451	0.29%	0.094%
31	13.317	13.294	13.332	BV	4735	58832	0.72%	0.236%
32	13.361	13.332	13.394	VB	153706	1841469	22.66%	7.390%
33	13.580	13.474	13.617	BV	3265	48282	0.59%	0.194%
34	13.752	13.617	13.779	PB	2779	28449	0.35%	0.114%
35	14.548	14.429	14.581	BB	2185	31427	0.39%	0.126%
36	15.755	15.692	15.806	BB	2013	28464	0.35%	0.114%

rteres

37	16.803	16.676	16.825	BV	1604	25679	0.32%	0.103%
38	16.849	16.825	16.897	VB	2329	32212	0.40%	0.129%

Sum of corrected areas: 24917585

Aromatic EPH 102124.M Tue Nov 05 01:57:05 2024

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

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	10/29/24
Project:	RFP 872	Date Received:	10/29/24
Client Sample ID:	P001-CF08-01	SDG No.:	P4620
Lab Sample ID:	P4620-06	Matrix:	Water
Analytical Method:	NJEPH	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :	SW3510		

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FG014638.D	1	11/03/24	11/04/24	PB164637

CAS Number	Parameter		Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
Aliphatic C9-C12	Aliphatic C9-C12		5.76	U	5.76	30.0	ug/l
Aliphatic C12-C16	Aliphatic C12-C16		3.61	U	3.61	20.0	ug/l
Aliphatic C16-C21	Aliphatic C16-C21		5.14	U	5.14	30.0	ug/l
Aliphatic C21-C28	Aliphatic C21-C28		8.97	U	8.97	40.0	ug/l
Aliphatic C28-C40	Aliphatic C28-C40		17.0	U	17.0	60.0	ug/l
SURROGATES							
3383-33-2	1-chlorooctadecane (SURR)		59.9		40 - 140	120%	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:	P4620-06	Acq On:	04 Nov 2024 12:39
Client Sample ID:	P001-CF08-01	Operator:	YP\AJ
Data file:	FG014638.D	Misc:	
Instrument:	FID_G	ALS Vial:	13
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.228	6.849	144941	1.104	300	ug/ml
Aliphatic C12-C16	6.850	10.292	88797	0.654	200	ug/ml
Aliphatic C16-C21	10.293	13.665	51708	0.366	300	ug/ml
Aliphatic C21-C28	13.666	17.329	0	0	400	ug/ml
Aliphatic C28-C40	17.330	22.266	0	0	600	ug/ml
Aliphatic EPH	3.228	22.266	285446	2.123		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	13.400	13.400	7359881	59.94		ug/ml
Aliphatic C9-C28	3.228	17.329	285446	2.124	1200	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG110424AL\
Data File : FG014638.D
Signal(s) : FID1A.ch
Acq On : 04 Nov 2024 12:39
Operator : YP\AJ
Sample : P4620-06
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
P001-CF08-01

Integration File: autoint1.e
Quant Time: Nov 05 00:36:28 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 102124.M
Quant Title : GC Extractables
QLast Update : Tue Oct 22 06:49:54 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...	13.400	7359881	59.938 ug/ml
Spiked Amount 50.000		Recovery = 119.88%	
Target Compounds			

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

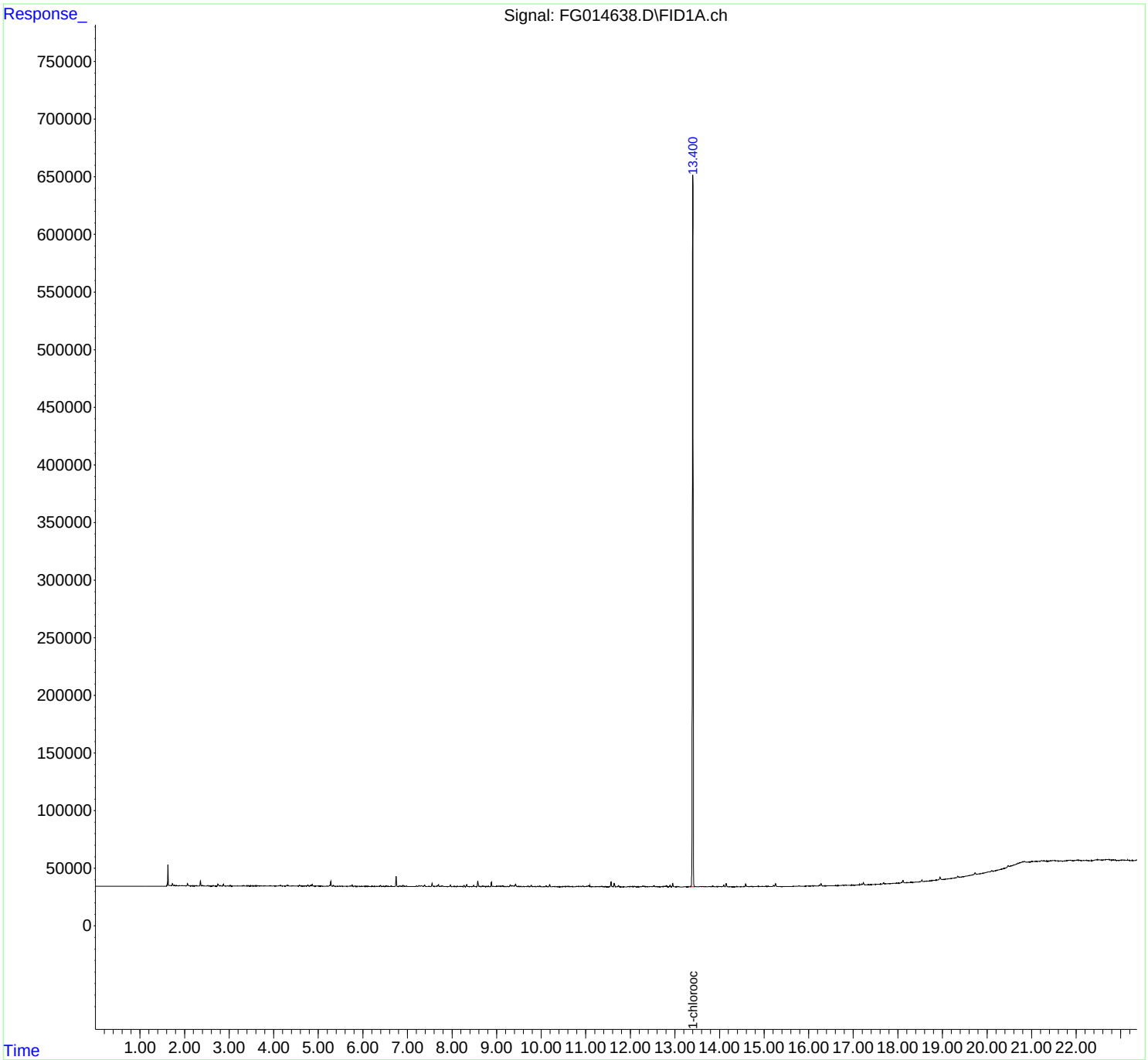
Quantitation Report (QT Reviewed)

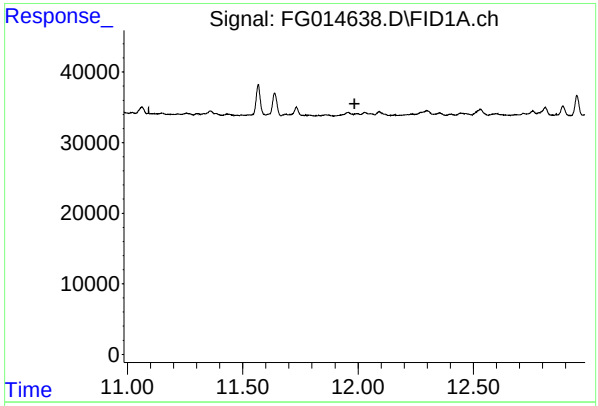
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG110424AL\
Data File : FG014638.D
Signal(s) : FID1A.ch
Acq On : 04 Nov 2024 12:39
Operator : YP\AJ
Sample : P4620-06
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
P001-CF08-01

Integration File: autoint1.e
Quant Time: Nov 05 00:36:28 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 102124.M
Quant Title : GC Extractables
QLast Update : Tue Oct 22 06:49:54 2024
Response via : Initial Calibration
Integrator: ChemStation

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

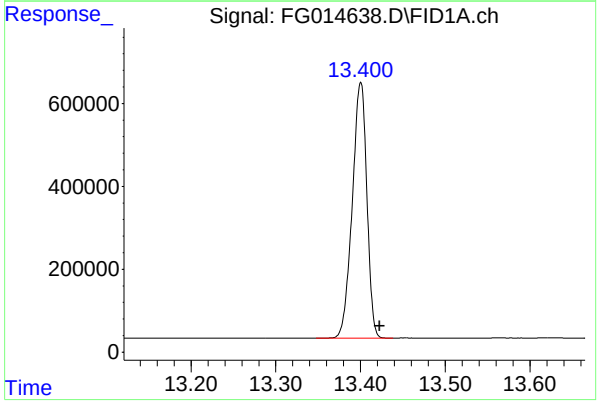




#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.984 min
Response: 0
Conc: N.D.

Instrument :
FID_G
ClientSampleId :
P001-CF08-01



#12 1-chlorooctadecane (SURR)

R.T.: 13.400 min
Delta R.T.: -0.022 min
Response: 7359881
Conc: 59.94 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG110424AL\
Data File : FG014638.D
Signal(s) : FID1A.ch
Acq On : 04 Nov 2024 12:39
Sample : P4620-06
Misc :
ALS Vial : 13 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 102124.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	5.280	5.231	5.314	BB	4270	54780	0.74%	0.717%
2	6.747	6.722	6.774	BB	8794	90161	1.23%	1.179%
3	8.579	8.554	8.603	BB	4614	49810	0.68%	0.652%
4	8.884	8.853	8.908	BB	3898	38987	0.53%	0.510%
5	11.567	11.535	11.601	BB	4342	51708	0.70%	0.676%
6	13.400	13.348	13.438	BB	617139	7359881	100.00%	96.266%

Sum of corrected areas: 7645327

Aliphatic EPH 102124.M Tue Nov 05 01:18:00 2024

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

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	10/29/24
Project:	RFP 872	Date Received:	10/29/24
Client Sample ID:	P001-CF09-01	SDG No.:	P4620
Lab Sample ID:	P4620-07	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	95.2
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
11/03/24 08:45	11/04/24 18:26	PB164618

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	0.40	U	1	0.40	1.05	mg/kg	FC067607.D
Aliphatic C12-C16	Aliphatic C12-C16	0.25	U	1	0.25	0.70	mg/kg	FC067607.D
Aliphatic C16-C21	Aliphatic C16-C21	0.31	U	1	0.31	1.05	mg/kg	FC067607.D
Aliphatic C21-C28	Aliphatic C21-C28	0.84	U	1	0.84	1.40	mg/kg	FC067607.D
Aliphatic C28-C40	Aliphatic C28-C40	1.89	U	1	1.89	2.10	mg/kg	FC067607.D
Aromatic C10-C12	Aromatic C10-C12	0.31	U	1	0.31	0.70	mg/kg	FD048644.D
Aromatic C12-C16	Aromatic C12-C16	0.36	U	1	0.36	1.05	mg/kg	FD048644.D
Aromatic C16-C21	Aromatic C16-C21	1.01	U	1	1.01	1.75	mg/kg	FD048644.D
Aromatic C21-C36	Aromatic C21-C36	2.10	U	1	2.10	2.80	mg/kg	FD048644.D
Total AliphaticEPH	Total AliphaticEPH	3.69	U		3.69	6.30	mg/kg	
Total AromaticEPH	Total AromaticEPH	3.78	U		3.78	6.30	mg/kg	
Total EPH	Total EPH	7.47	U		7.47	12.6	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:	Weston Solutions, Inc.	Date Collected:	10/29/24
Project:	RFP 872	Date Received:	10/29/24
Client Sample ID:	P001-CF09-01	SDG No.:	P4620
Lab Sample ID:	P4620-07	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	95.2
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
FC067607.D	1	11/03/24	11/04/24	PB164618

CAS Number	Parameter		Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
Aliphatic C9-C12	Aliphatic C9-C12		0.40	U	0.40	1.05	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16		0.25	U	0.25	0.70	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21		0.31	U	0.31	1.05	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28		0.84	U	0.84	1.40	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40		1.89	U	1.89	2.10	mg/kg
SURROGATES							
3383-33-2	1-chlorooctadecane (SURR)		46.1		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:	P4620-07	Acq On:	04 Nov 2024 18:26
Client Sample ID:	P001-CF09-01	Operator:	YP/AJ
Data file:	FC067607.D	Misc:	
Instrument:	FID_C	ALS Vial:	9
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.171	6.449	107880	0.796	300	ug/ml
Aliphatic C12-C16	6.450	9.838	341235	2.591	200	ug/ml
Aliphatic C16-C21	9.839	13.196	0	0	300	ug/ml
Aliphatic C21-C28	13.197	16.847	0	0	400	ug/ml
Aliphatic C28-C40	16.848	21.685	0	0	600	ug/ml
Aliphatic EPH	3.171	21.685	449115	3.388		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	12.930	12.930	4976861	46.09		ug/ml
Aliphatic C9-C28	3.171	16.847	449115	3.387	1200	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC110424AL\
Data File : FC067607.D
Signal(s) : FID1A.ch
Acq On : 04 Nov 2024 18:26
Operator : YP/AJ
Sample : P4620-07
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
P001-CF09-01

Integration File: autoint1.e
Quant Time: Nov 05 03:44:28 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...	12.930	4976861	46.087 ug/ml
Spiked Amount 50.000		Recovery = 92.17%	
Target Compounds			

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

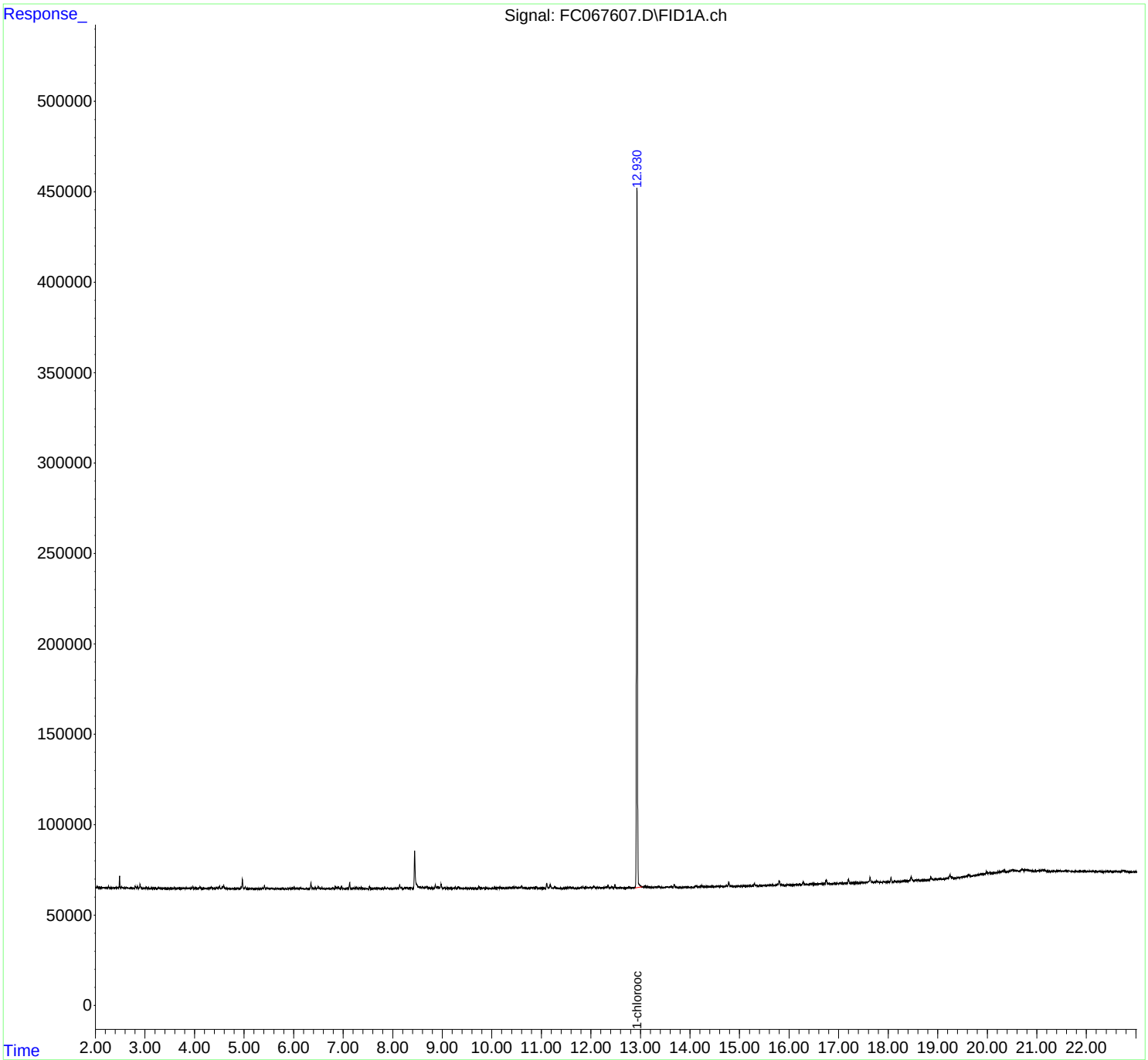
Quantitation Report (QT Reviewed)

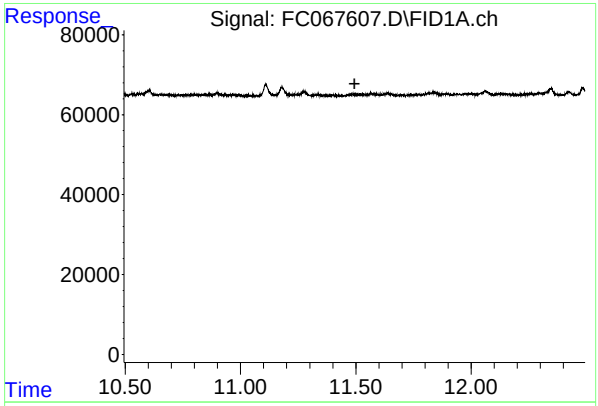
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC110424AL\
Data File : FC067607.D
Signal(s) : FID1A.ch
Acq On : 04 Nov 2024 18:26
Operator : YP/AJ
Sample : P4620-07
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
P001-CF09-01

Integration File: autoint1.e
Quant Time: Nov 05 03:44:28 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

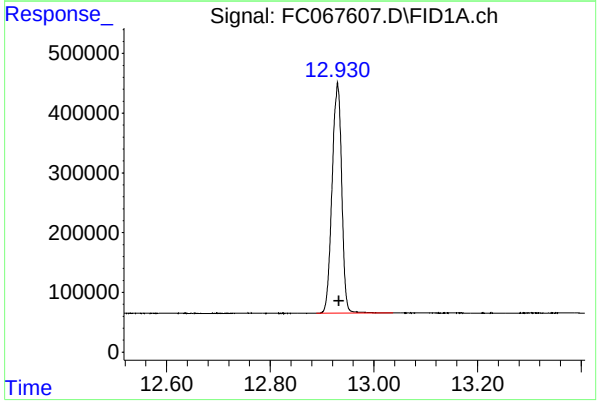




#9 ortho-Terphenyl (SURR)

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

Instrument :
FID_C
ClientSampleId :
P001-CF09-01



#12 1-chlorooctadecane (SURR)

R.T.: 12.930 min
Delta R.T.: -0.003 min
Response: 4976861
Conc: 46.09 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC110424AL\
Data File : FC067607.D
Signal(s) : FID1A.ch
Acq On : 04 Nov 2024 18:26
Sample : P4620-07
Misc :
ALS Vial : 9 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	4.967	4.872	5.004	BV	5335	69956	1.41%	1.289%
2	6.350	6.327	6.384	BB	3338	37924	0.76%	0.699%
3	7.132	7.097	7.164	BB	3523	38402	0.77%	0.708%
4	8.444	8.409	8.534	BB	20781	302833	6.08%	5.581%
5	12.930	12.889	13.037	BB	387027	4976861	100.00%	91.723%

Sum of corrected areas: 5425975

Aliphatic EPH 102324.M Tue Nov 05 05:27:48 2024

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

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	10/29/24
Project:	RFP 872	Date Received:	10/29/24
Client Sample ID:	P001-CF09-01	SDG No.:	P4620
Lab Sample ID:	P4620-07	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	95.2
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
FD048644.D	1	11/03/24	11/04/24	PB164618

CAS Number	Parameter		Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
Aromatic C10-C12	Aromatic C10-C12		0.31	U	0.31	0.70	mg/kg
Aromatic C12-C16	Aromatic C12-C16		0.36	U	0.36	1.05	mg/kg
Aromatic C16-C21	Aromatic C16-C21		1.01	U	1.01	1.75	mg/kg
Aromatic C21-C36	Aromatic C21-C36		2.10	U	2.10	2.80	mg/kg
SURROGATES							
580-13-2	2-Bromonaphthalene (SURR)		59.9		40 - 140	120%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)		54.2		40 - 140	108%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)		50.4		40 - 140	101%	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:	P4620-07	Acq On:	04 Nov 2024 18:26
Client Sample ID:	P001-CF09-01	Operator:	YP/AJ
Data file:	FD048644.D	Misc:	
Instrument:	FID_D	ALS Vial:	59
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic EPH	4.093	18.080	5090756	32.063		ug/ml
2-Bromonaphthalene (SURR)	7.374	7.374	9098028	59.94		ug/ml
2-Flurobiphenyl (SURR)	8.223	8.223	5319654	54.18		ug/ml
ortho-Terphenyl (SURR)	11.260	11.260	8582763	50.39		ug/ml
Aromatic C10-C12	4.093	5.811	309874	1.759	200	ug/ml
Aromatic C12-C16	5.812	8.416	231377	1.305	300	ug/ml
Aromatic C16-C21	8.417	12.676	1780972	10.871	500	ug/ml
Aromatic C21-C36	12.677	18.080	2768533	18.129	800	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD110424AR\
Data File : FD048644.D
Signal(s) : FID2B.ch
Acq On : 04 Nov 2024 18:26
Operator : YP/AJ
Sample : P4620-07
Misc :
ALS Vial : 59 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
P001-CF09-01

Integration File: autoint1.e
Quant Time: Nov 05 02:07:54 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	9098028	59.943 ug/ml
Spiked Amount 50.000		Recovery = 119.89%	
6) S 2-Flurobiphenyl (SURR)	8.223	5319654	54.176 ug/ml
Spiked Amount 50.000 Range 0 - 131		Recovery = 108.35%	
11) S ortho-Terphenyl (SURR)	11.260	8582763	50.386 ug/ml
Spiked Amount 50.000		Recovery = 100.77%	
Target Compounds			

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

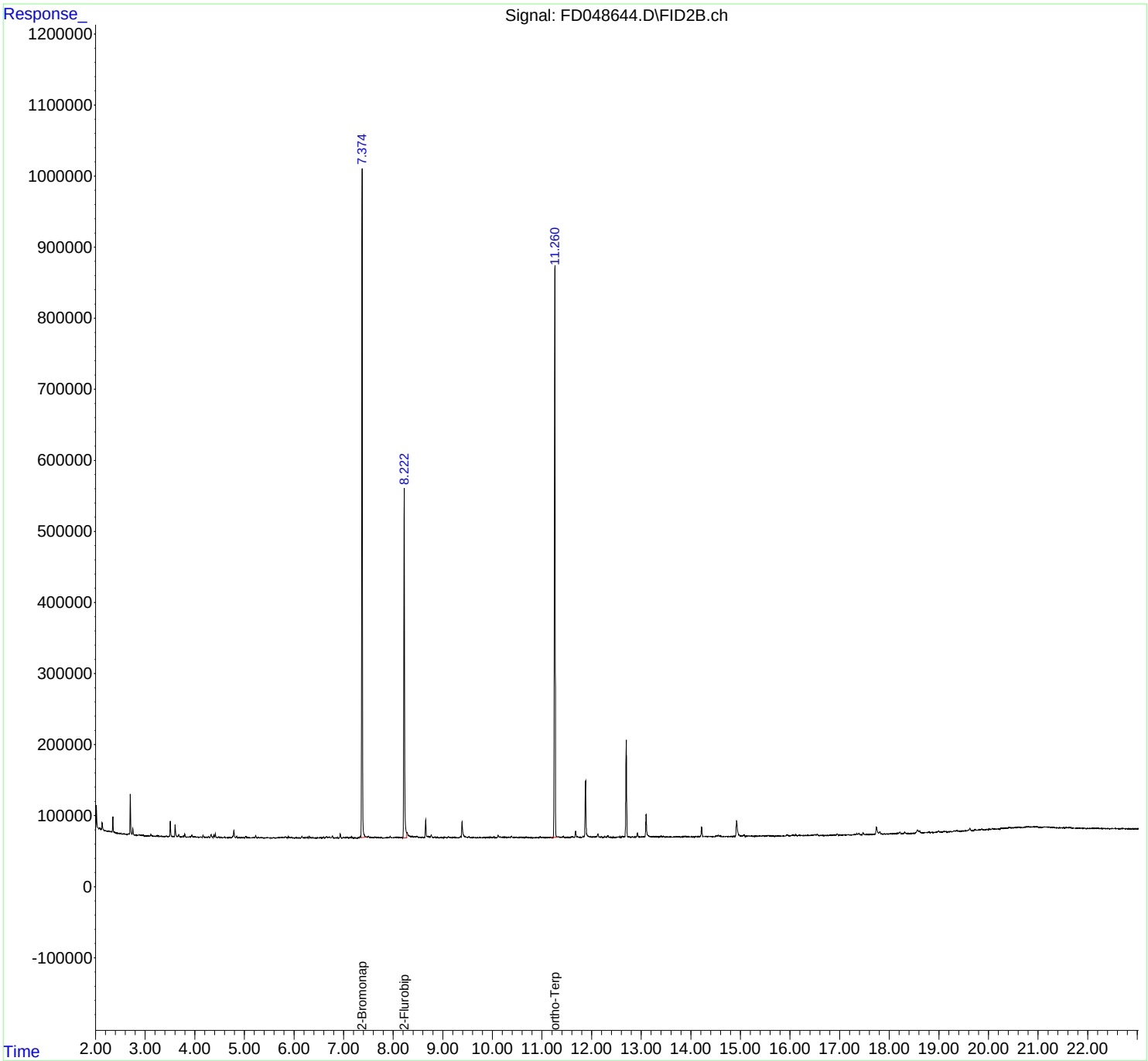
Quantitation Report (QT Reviewed)

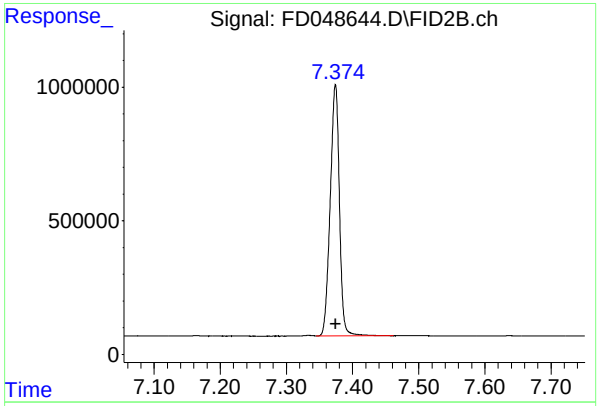
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD110424AR\
Data File : FD048644.D
Signal(s) : FID2B.ch
Acq On : 04 Nov 2024 18:26
Operator : YP/AJ
Sample : P4620-07
Misc :
ALS Vial : 59 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
P001-CF09-01

Integration File: autoint1.e
Quant Time: Nov 05 02:07:54 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

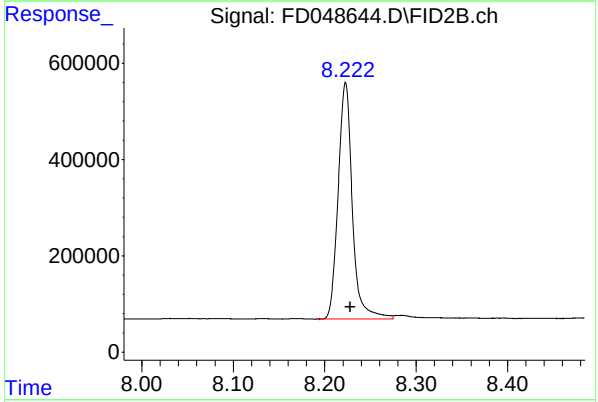




#4 2-Bromonaphthalene (SURR)

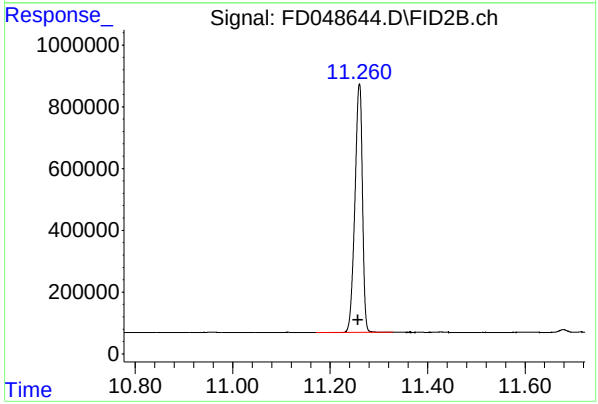
R.T.: 7.374 min
Delta R.T.: 0.000 mi
Response: 9098028
Conc: 59.94 ug/m

Instrument :
FID_D
ClientSampleId :
P001-CF09-01



#6 2-Flurobiphenyl (SURR)

R.T.: 8.223 min
Delta R.T.: -0.005 min
Response: 5319654
Conc: 54.18 ug/ml



#11 ortho-Terphenyl (SURR)

R.T.: 11.260 min
Delta R.T.: 0.003 min
Response: 8582763
Conc: 50.39 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD110424AR\
Data File : FD048644.D
Signal(s) : FID2B.ch
Acq On : 04 Nov 2024 18:26
Sample : P4620-07
Misc :
ALS Vial : 59 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	3.506	3.455	3.574	PV	21460	220683	2.43%	0.773%
2	3.604	3.574	3.657	VV	16818	180238	1.98%	0.632%
3	3.798	3.782	3.834	VV	4486	46459	0.51%	0.163%
4	4.329	4.301	4.368	PV	4222	57835	0.64%	0.203%
5	4.384	4.368	4.399	VV	3550	32846	0.36%	0.115%
6	4.414	4.399	4.458	VV	5280	52109	0.57%	0.183%
7	4.788	4.733	4.824	PV	9992	131834	1.45%	0.462%
8	5.228	5.207	5.251	VV	3522	35250	0.39%	0.124%
9	6.934	6.904	6.961	BV	5619	58710	0.65%	0.206%
10	7.374	7.345	7.461	VV	945943	9098028	100.00%	31.880%
11	8.223	8.191	8.275	PV	495852	5319654	58.47%	18.640%
12	8.283	8.275	8.349	VV	7810	172667	1.90%	0.605%
13	8.657	8.606	8.681	PV	24001	239628	2.63%	0.840%
14	9.390	9.370	9.498	VV	22707	346154	3.80%	1.213%
15	10.116	10.064	10.176	BV	3412	57936	0.64%	0.203%
16	11.260	11.171	11.329	BV	817487	8582763	94.34%	30.074%
17	11.678	11.644	11.701	BV	8773	94858	1.04%	0.332%
18	11.879	11.849	11.971	VB	78595	975206	10.72%	3.417%
19	12.126	12.061	12.181	BV	4562	67190	0.74%	0.235%
20	12.698	12.645	12.734	VV	136330	1530390	16.82%	5.363%
21	12.922	12.784	12.968	BV	5809	83329	0.92%	0.292%
22	13.098	13.039	13.214	PB	31834	432799	4.76%	1.517%
23	14.217	14.188	14.248	VB	13516	162227	1.78%	0.568%
24	14.922	14.874	15.014	BV	22007	403419	4.43%	1.414%
25	17.742	17.701	17.788	BV	9381	156369	1.72%	0.548%

Sum of corrected areas: 28538582

Aromatic EPH 102324.M Tue Nov 05 03:29:37 2024

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

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	10/29/24
Project:	RFP 872	Date Received:	10/29/24
Client Sample ID:	P001-CF09-01	SDG No.:	P4620
Lab Sample ID:	P4620-08	Matrix:	Water
Analytical Method:	NJEPH	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :	SW3510		

Prep Date :	Date Analyzed :	Prep Batch ID
11/03/24 08:20	11/04/24 13:07	PB164637

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	5.76	U	1	5.76	30.0	ug/l	FG014639.D
Aliphatic C12-C16	Aliphatic C12-C16	3.61	U	1	3.61	20.0	ug/l	FG014639.D
Aliphatic C16-C21	Aliphatic C16-C21	5.14	U	1	5.14	30.0	ug/l	FG014639.D
Aliphatic C21-C28	Aliphatic C21-C28	8.97	U	1	8.97	40.0	ug/l	FG014639.D
Aliphatic C28-C40	Aliphatic C28-C40	17.0	U	1	17.0	60.0	ug/l	FG014639.D
Aromatic C10-C12	Aromatic C10-C12	3.32	U	1	3.32	20.0	ug/l	FF014909.D
Aromatic C12-C16	Aromatic C12-C16	3.69	U	1	3.69	30.0	ug/l	FF014909.D
Aromatic C16-C21	Aromatic C16-C21	61.9		1	12.7	50.0	ug/l	FF014909.D
Aromatic C21-C36	Aromatic C21-C36	25.2	U	1	25.2	80.0	ug/l	FF014909.D
Total AliphaticEPH	Total AliphaticEPH	40.5	U		40.5	180	ug/l	
Total AromaticEPH	Total AromaticEPH	61.9	J		44.9	180	ug/l	
Total EPH	Total EPH	85.4	U		85.4	360	ug/l	

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

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

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

Report of Analysis

Client:	Weston Solutions, Inc.		Date Collected:	10/29/24	
Project:	RFP 872		Date Received:	10/29/24	
Client Sample ID:	P001-CF09-01		SDG No.:	P4620	
Lab Sample ID:	P4620-08		Matrix:	Water	
Analytical Method:	NJEPH		% Solid:	0	
Sample Wt/Vol:	1000	Units: mL	Final Vol:	2000	uL
Soil Aliquot Vol:		uL	Test:	EPH	
Prep Method :	SW3510				

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FF014909.D	1	11/03/24	11/04/24	PB164637

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	3.32	U	3.32	20.0	ug/l
Aromatic C12-C16	Aromatic C12-C16	3.69	U	3.69	30.0	ug/l
Aromatic C16-C21	Aromatic C16-C21	61.9		12.7	50.0	ug/l
Aromatic C21-C36	Aromatic C21-C36	25.2	U	25.2	80.0	ug/l
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	57.1		40 - 140	114%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	56.6		40 - 140	113%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	56.9		40 - 140	114%	SPK: 50

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Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	P4620-08	Acq On:	04 Nov 2024 13:07
Client Sample ID:	P001-CF09-01	Operator:	YP\AJ
Data file:	FF014909.D	Misc:	
Instrument:	FID_F	ALS Vial:	64
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.508	6.372	652220	4.179	200	ug/ml
Aromatic C12-C16	6.373	9.064	612165	3.835	300	ug/ml
Aromatic C16-C21	9.065	13.375	4805331	30.925	500	ug/ml
Aromatic C21-C36	13.376	18.817	602327	4.058	800	ug/ml
Aromatic EPH	4.508	18.817	6672043	42.996		ug/ml
ortho-Terphenyl (SURR)	11.930	11.930	9103396	56.9		ug/ml
2-Bromonaphthalene (SURR)	7.994	7.994	7969779	57.15		ug/ml
2-Flurobiphenyl (SURR)	8.868	8.868	5336059	56.58		ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF110424AR\
Data File : FF014909.D
Signal(s) : FID2B.ch
Acq On : 04 Nov 2024 13:07
Operator : YP\AJ
Sample : P4620-08
Misc :
ALS Vial : 64 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
P001-CF09-01

Integration File: autoint1.e
Quant Time: Nov 05 01:26:00 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 102124.M
Quant Title : GC Extractables
QLast Update : Tue Oct 22 04:14:53 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...	7.994	7969779	57.153 ug/ml
Spiked Amount 50.000		Recovery = 114.31%	
6) S 2-Flurobiphenyl (SURR)	8.868	5336059	56.580 ug/ml
Spiked Amount 50.000 Range 0 - 131		Recovery = 113.16%	
11) S ortho-Terphenyl (SURR)	11.930	9103396	56.904 ug/ml
Spiked Amount 50.000		Recovery = 113.81%	
Target Compounds			

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

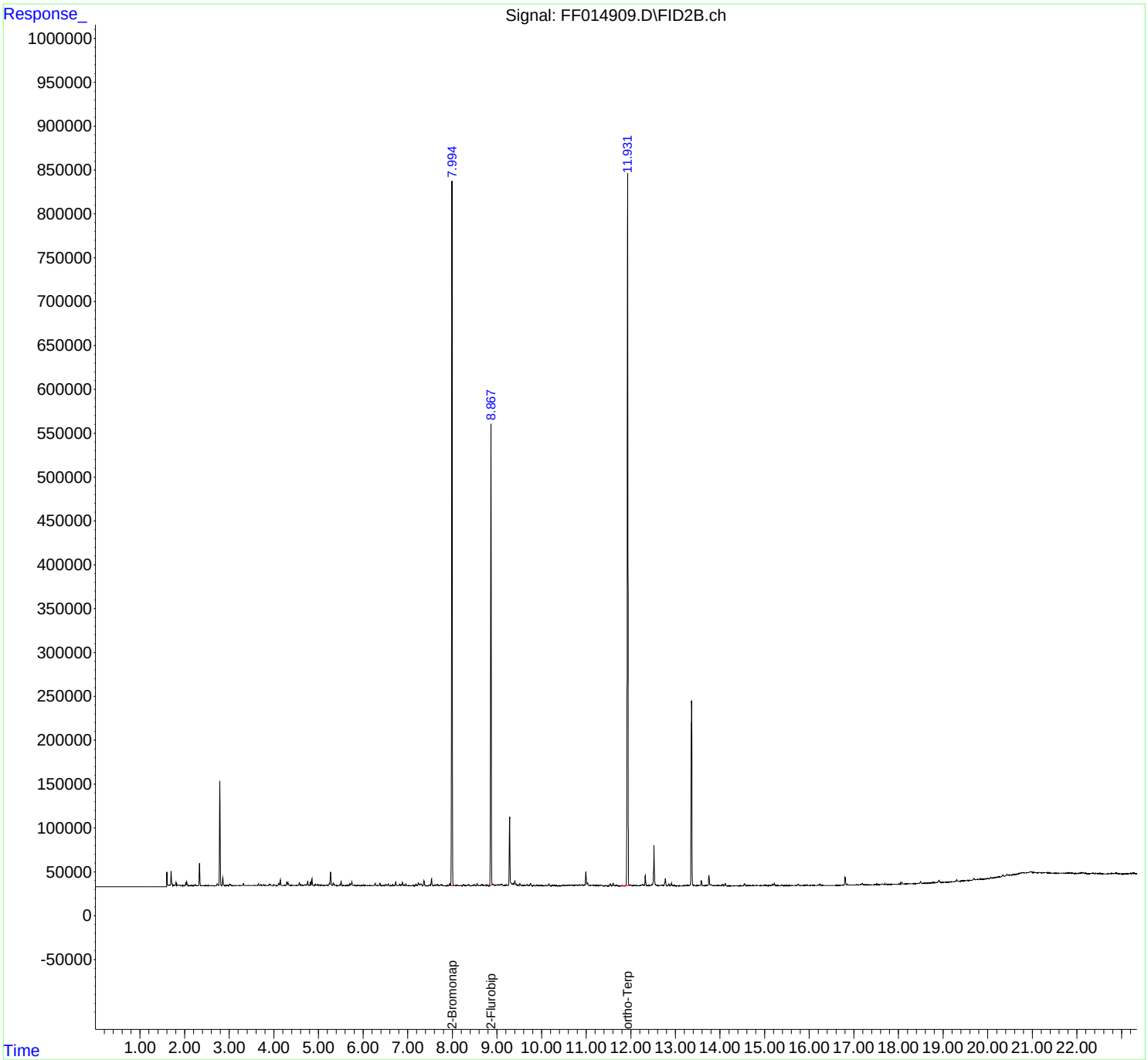
Quantitation Report (QT Reviewed)

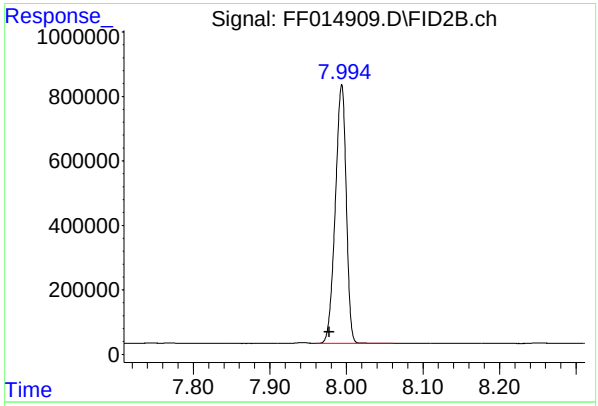
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF110424AR\
Data File : FF014909.D
Signal(s) : FID2B.ch
Acq On : 04 Nov 2024 13:07
Operator : YP\AJ
Sample : P4620-08
Misc :
ALS Vial : 64 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
P001-CF09-01

Integration File: autoint1.e
Quant Time: Nov 05 01:26:00 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 102124.M
Quant Title : GC Extractables
QLast Update : Tue Oct 22 04:14:53 2024
Response via : Initial Calibration
Integrator: ChemStation

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

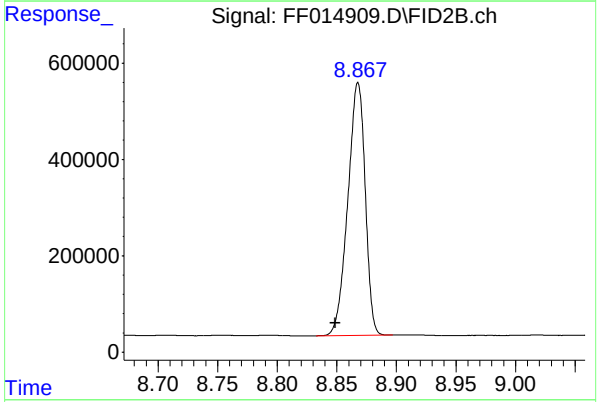




#4 2-Bromonaphthalene (SURR)

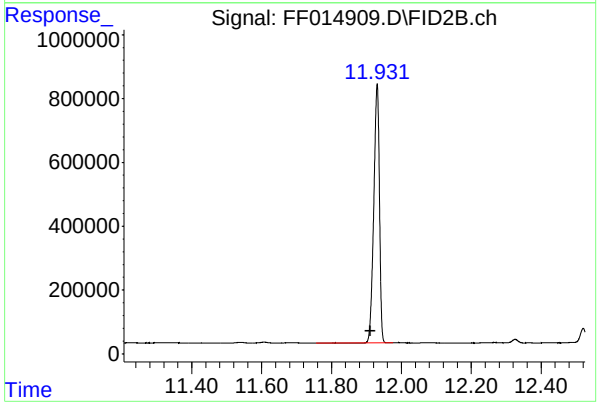
R.T.: 7.994 min
Delta R.T.: 0.016 min
Response: 7969779
Conc: 57.15 ug/ml

Instrument :
FID_F
ClientSampleId :
P001-CF09-01



#6 2-Flurobiphenyl (SURR)

R.T.: 8.868 min
Delta R.T.: 0.019 min
Response: 5336059
Conc: 56.58 ug/ml



#11 ortho-Terphenyl (SURR)

R.T.: 11.930 min
Delta R.T.: 0.018 min
Response: 9103396
Conc: 56.90 ug/ml

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF110424AR\
Data File : FF014909.D
Signal(s) : FID2B.ch
Acq On : 04 Nov 2024 13:07
Sample : P4620-08
Misc :
ALS Vial : 64 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 102124.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	4.570	4.509	4.591	BV	3335	30712	0.34%	0.106%
2	4.759	4.715	4.784	VV	4892	62388	0.69%	0.215%
3	4.821	4.784	4.837	VV	3799	40859	0.45%	0.140%
4	4.854	4.837	4.902	VV	7730	77666	0.85%	0.267%
5	4.928	4.902	4.951	PV	1552	15642	0.17%	0.054%
6	5.271	5.224	5.305	BV	15526	212460	2.33%	0.731%
7	5.332	5.305	5.374	PB	2866	40478	0.44%	0.139%
8	5.508	5.488	5.541	VV	5092	51716	0.57%	0.178%
9	5.703	5.684	5.720	PV	2397	25498	0.28%	0.088%
10	5.749	5.720	5.791	VV	4332	56130	0.62%	0.193%
11	6.272	6.202	6.317	BV	2829	38671	0.42%	0.133%
12	6.379	6.359	6.401	VB	3080	30958	0.34%	0.106%
13	6.566	6.545	6.587	VV	2122	25202	0.28%	0.087%
14	6.732	6.587	6.756	PV	4279	58440	0.64%	0.201%
15	6.819	6.756	6.837	VV	2098	27970	0.31%	0.096%
16	6.886	6.868	6.907	VV	3907	42301	0.46%	0.145%
17	6.961	6.942	6.984	VB	2304	23763	0.26%	0.082%
18	7.187	7.159	7.219	BV	2140	29097	0.32%	0.100%
19	7.241	7.219	7.276	VV	3488	58890	0.65%	0.202%
20	7.293	7.276	7.337	VV	2241	47242	0.52%	0.162%
21	7.368	7.337	7.427	VB	5604	75085	0.82%	0.258%
22	7.535	7.513	7.564	VV	8237	90421	0.99%	0.311%
23	7.675	7.657	7.697	VV	1838	23507	0.26%	0.081%
24	7.943	7.901	7.960	BV	2587	26212	0.29%	0.090%
25	7.994	7.960	8.061	PV	806357	7969779	87.55%	27.405%
26	8.252	8.229	8.302	PB	1711	24087	0.26%	0.083%
27	8.557	8.527	8.579	PV	2728	28990	0.32%	0.100%
28	8.868	8.832	8.897	BV	525559	5336059	58.62%	18.349%
29	9.285	9.239	9.349	BV	78418	883763	9.71%	3.039%
30	9.364	9.349	9.382	VV	2434	38887	0.43%	0.134%
31	9.401	9.382	9.424	VV	5398	79285	0.87%	0.273%
32	9.515	9.491	9.550	VV	2541	38012	0.42%	0.131%
33	9.752	9.726	9.794	BV	2688	38658	0.42%	0.133%
34	10.164	10.127	10.197	BB	2377	32755	0.36%	0.113%
35	10.994	10.971	11.017	VV	15833	176028	1.93%	0.605%
36	11.032	11.017	11.067	VB	2613	36209	0.40%	0.125%

rteres

37	11.539	11.377	11.565	PV	2237	39408	0.43%	0.136%
38	11.607	11.565	11.637	PV	2806	38847	0.43%	0.134%
39	11.930	11.756	11.976	BV	814253	9103396	100.00%	31.303%
40	12.326	12.291	12.352	VV	11425	135670	1.49%	0.467%
41	12.520	12.454	12.617	VV	46090	575190	6.32%	1.978%
42	12.775	12.741	12.824	BV	8286	117369	1.29%	0.404%
43	12.854	12.824	12.882	PV	2222	30436	0.33%	0.105%
44	12.915	12.882	12.942	PV	3152	39380	0.43%	0.135%
45	13.361	13.299	13.394	PV	210957	2505434	27.52%	8.615%
46	13.580	13.542	13.619	BV	5858	75224	0.83%	0.259%
47	13.752	13.619	13.804	PB	10880	116211	1.28%	0.400%
48	14.060	14.009	14.087	VV	1817	27143	0.30%	0.093%
49	14.114	14.087	14.154	PB	2831	36370	0.40%	0.125%
50	14.548	14.489	14.581	BB	2178	28161	0.31%	0.097%
51	15.215	15.192	15.281	VB	2654	41606	0.46%	0.143%
52	15.754	15.692	15.814	BB	1791	27339	0.30%	0.094%
53	16.238	16.216	16.266	VV	1980	25752	0.28%	0.089%
54	16.803	16.752	16.830	BV	9033	113222	1.24%	0.389%
55	17.187	17.166	17.217	VB	1807	25001	0.27%	0.086%
56	18.074	17.986	18.106	BB	2325	44488	0.49%	0.153%
57	18.496	18.296	18.531	BB	2014	41810	0.46%	0.144%

Sum of corrected areas: 29081275

Aromatic EPH 102124.M Tue Nov 05 01:57:16 2024

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

Report of Analysis

Client:	Weston Solutions, Inc.		Date Collected:	10/29/24	
Project:	RFP 872		Date Received:	10/29/24	
Client Sample ID:	P001-CF09-01		SDG No.:	P4620	
Lab Sample ID:	P4620-08		Matrix:	Water	
Analytical Method:	NJEPH		% Solid:	0	
Sample Wt/Vol:	1000	Units: mL	Final Vol:	2000	uL
Soil Aliquot Vol:		uL	Test:	EPH	
Prep Method :	SW3510				

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FG014639.D	1	11/03/24	11/04/24	PB164637

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C12	Aliphatic C9-C12	5.76	U	5.76	30.0	ug/l
Aliphatic C12-C16	Aliphatic C12-C16	3.61	U	3.61	20.0	ug/l
Aliphatic C16-C21	Aliphatic C16-C21	5.14	U	5.14	30.0	ug/l
Aliphatic C21-C28	Aliphatic C21-C28	8.97	U	8.97	40.0	ug/l
Aliphatic C28-C40	Aliphatic C28-C40	17.0	U	17.0	60.0	ug/l
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	56.1		40 - 140	112%	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:	P4620-08	Acq On:	04 Nov 2024 13:07
Client Sample ID:	P001-CF09-01	Operator:	YP\AJ
Data file:	FG014639.D	Misc:	
Instrument:	FID_G	ALS Vial:	14
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.228	6.849	145244	1.106	300	ug/ml
Aliphatic C12-C16	6.850	10.292	92401	0.68	200	ug/ml
Aliphatic C16-C21	10.293	13.665	184192	1.304	300	ug/ml
Aliphatic C21-C28	13.666	17.329	115587	0.822	400	ug/ml
Aliphatic C28-C40	17.330	22.266	0	0	600	ug/ml
Aliphatic EPH	3.228	22.266	537424	3.912		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	13.399	13.399	6886049	56.08		ug/ml
Aliphatic C9-C28	3.228	17.329	537424	3.912	1200	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG110424AL\
Data File : FG014639.D
Signal(s) : FID1A.ch
Acq On : 04 Nov 2024 13:07
Operator : YP\AJ
Sample : P4620-08
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
P001-CF09-01

Integration File: autoint1.e
Quant Time: Nov 05 00:36:37 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 102124.M
Quant Title : GC Extractables
QLast Update : Tue Oct 22 06:49:54 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...	13.399	6886049	56.079 ug/ml
Spiked Amount 50.000		Recovery = 112.16%	
Target Compounds			

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

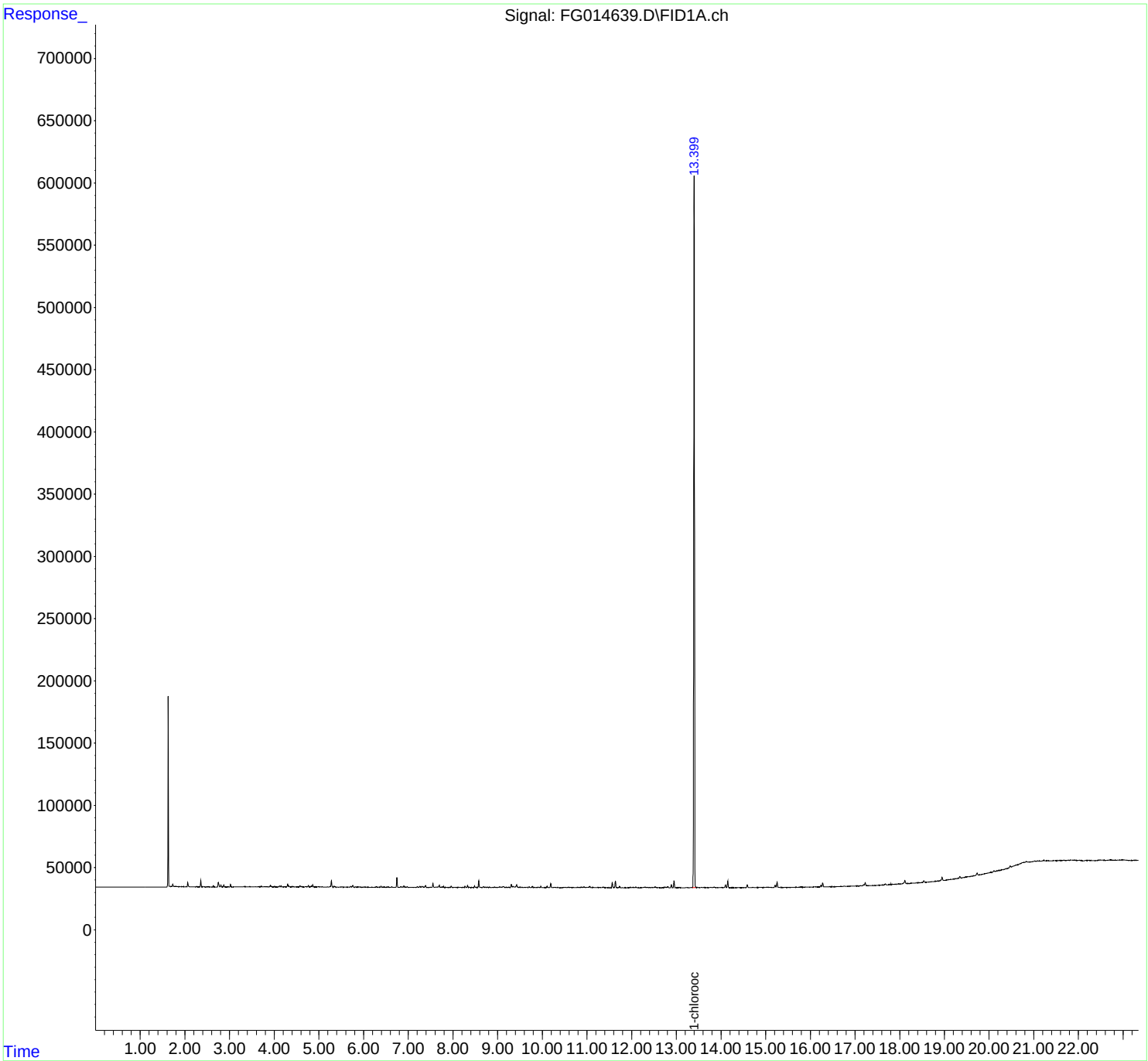
Quantitation Report (QT Reviewed)

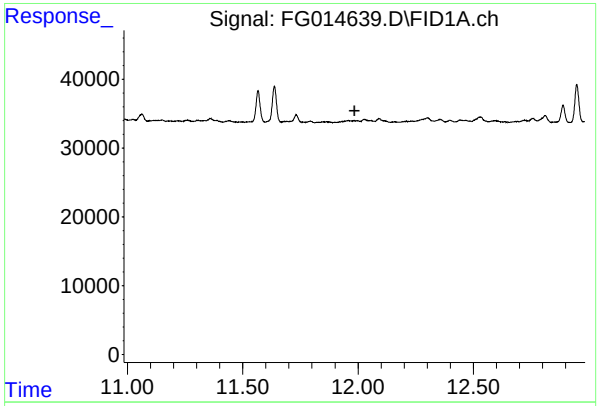
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG110424AL\
Data File : FG014639.D
Signal(s) : FID1A.ch
Acq On : 04 Nov 2024 13:07
Operator : YP\AJ
Sample : P4620-08
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
P001-CF09-01

Integration File: autoint1.e
Quant Time: Nov 05 00:36:37 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 102124.M
Quant Title : GC Extractables
QLast Update : Tue Oct 22 06:49:54 2024
Response via : Initial Calibration
Integrator: ChemStation

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

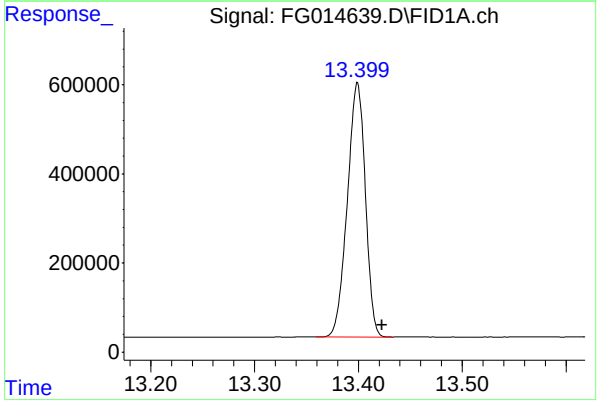




#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.984 min
Response: 0
Conc: N.D.

Instrument :
FID_G
ClientSampleId :
P001-CF09-01



#12 1-chlorooctadecane (SURR)

R.T.: 13.399 min
Delta R.T.: -0.024 min
Response: 6886049
Conc: 56.08 ug/ml

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Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG110424AL\
Data File : FG014639.D
Signal(s) : FID1A.ch
Acq On : 04 Nov 2024 13:07
Sample : P4620-08
Misc :
ALS Vial : 14 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 102124.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	5.280	5.228	5.317	BB	5138	65364	0.95%	0.881%
2	6.747	6.725	6.779	BB	7893	79880	1.16%	1.076%
3	7.554	7.533	7.578	BB	3304	35189	0.51%	0.474%
4	8.580	8.545	8.603	BB	5394	57212	0.83%	0.771%
5	11.566	11.528	11.599	BB	4579	54556	0.79%	0.735%
6	11.637	11.603	11.666	BB	5205	64177	0.93%	0.865%
7	12.948	12.918	12.974	BB	5491	65459	0.95%	0.882%
8	13.399	13.359	13.433	BB	572197	6886049	100.00%	92.760%
9	14.150	14.128	14.183	BB	5205	62158	0.90%	0.837%
10	15.254	15.229	15.281	VB	4322	53429	0.78%	0.720%

Sum of corrected areas: 7423474

Aliphatic EPH 102124.M Tue Nov 05 01:18:10 2024

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

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	10/29/24
Project:	RFP 872	Date Received:	10/29/24
Client Sample ID:	P001-CF10-01	SDG No.:	P4620
Lab Sample ID:	P4620-09	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	95.2
Sample Wt/Vol:	30.08 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
11/03/24 08:45	11/04/24 19:02	PB164618

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	0.40	U	1	0.40	1.05	mg/kg	FC067608.D
Aliphatic C12-C16	Aliphatic C12-C16	0.25	U	1	0.25	0.70	mg/kg	FC067608.D
Aliphatic C16-C21	Aliphatic C16-C21	0.31	U	1	0.31	1.05	mg/kg	FC067608.D
Aliphatic C21-C28	Aliphatic C21-C28	0.84	U	1	0.84	1.40	mg/kg	FC067608.D
Aliphatic C28-C40	Aliphatic C28-C40	1.89	U	1	1.89	2.10	mg/kg	FC067608.D
Aromatic C10-C12	Aromatic C10-C12	0.31	U	1	0.31	0.70	mg/kg	FD048645.D
Aromatic C12-C16	Aromatic C12-C16	0.36	U	1	0.36	1.05	mg/kg	FD048645.D
Aromatic C16-C21	Aromatic C16-C21	1.01	U	1	1.01	1.75	mg/kg	FD048645.D
Aromatic C21-C36	Aromatic C21-C36	2.10	U	1	2.10	2.79	mg/kg	FD048645.D
Total AliphaticEPH	Total AliphaticEPH	3.69	U		3.69	6.30	mg/kg	
Total AromaticEPH	Total AromaticEPH	3.78	U		3.78	6.29	mg/kg	
Total EPH	Total EPH	7.47	U		7.47	12.6	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:	Weston Solutions, Inc.	Date Collected:	10/29/24
Project:	RFP 872	Date Received:	10/29/24
Client Sample ID:	P001-CF10-01	SDG No.:	P4620
Lab Sample ID:	P4620-09	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	95.2
Sample Wt/Vol:	30.08 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FC067608.D	1	11/03/24	11/04/24	PB164618

CAS Number	Parameter		Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
Aliphatic C9-C12	Aliphatic C9-C12		0.40	U	0.40	1.05	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16		0.25	U	0.25	0.70	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21		0.31	U	0.31	1.05	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28		0.84	U	0.84	1.40	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40		1.89	U	1.89	2.10	mg/kg
SURROGATES							
3383-33-2	1-chlorooctadecane (SURR)		37.1		40 - 140	74%	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:	P4620-09	Acq On:	04 Nov 2024 19:02
Client Sample ID:	P001-CF10-01	Operator:	YP/AJ
Data file:	FC067608.D	Misc:	
Instrument:	FID_C	ALS Vial:	10
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.171	6.449	126041	0.93	300	ug/ml
Aliphatic C12-C16	6.450	9.838	77794	0.591	200	ug/ml
Aliphatic C16-C21	9.839	13.196	0	0	300	ug/ml
Aliphatic C21-C28	13.197	16.847	0	0	400	ug/ml
Aliphatic C28-C40	16.848	21.685	0	0	600	ug/ml
Aliphatic EPH	3.171	21.685	203835	1.521		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	12.929	12.929	4001890	37.06		ug/ml
Aliphatic C9-C28	3.171	16.847	203835	1.521	1200	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC110424AL\
Data File : FC067608.D
Signal(s) : FID1A.ch
Acq On : 04 Nov 2024 19:02
Operator : YP/AJ
Sample : P4620-09
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
P001-CF10-01

Integration File: autoint1.e
Quant Time: Nov 05 03:44:37 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...	12.929	4001890	37.059 ug/ml
Spiked Amount 50.000		Recovery = 74.12%	
Target Compounds			

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

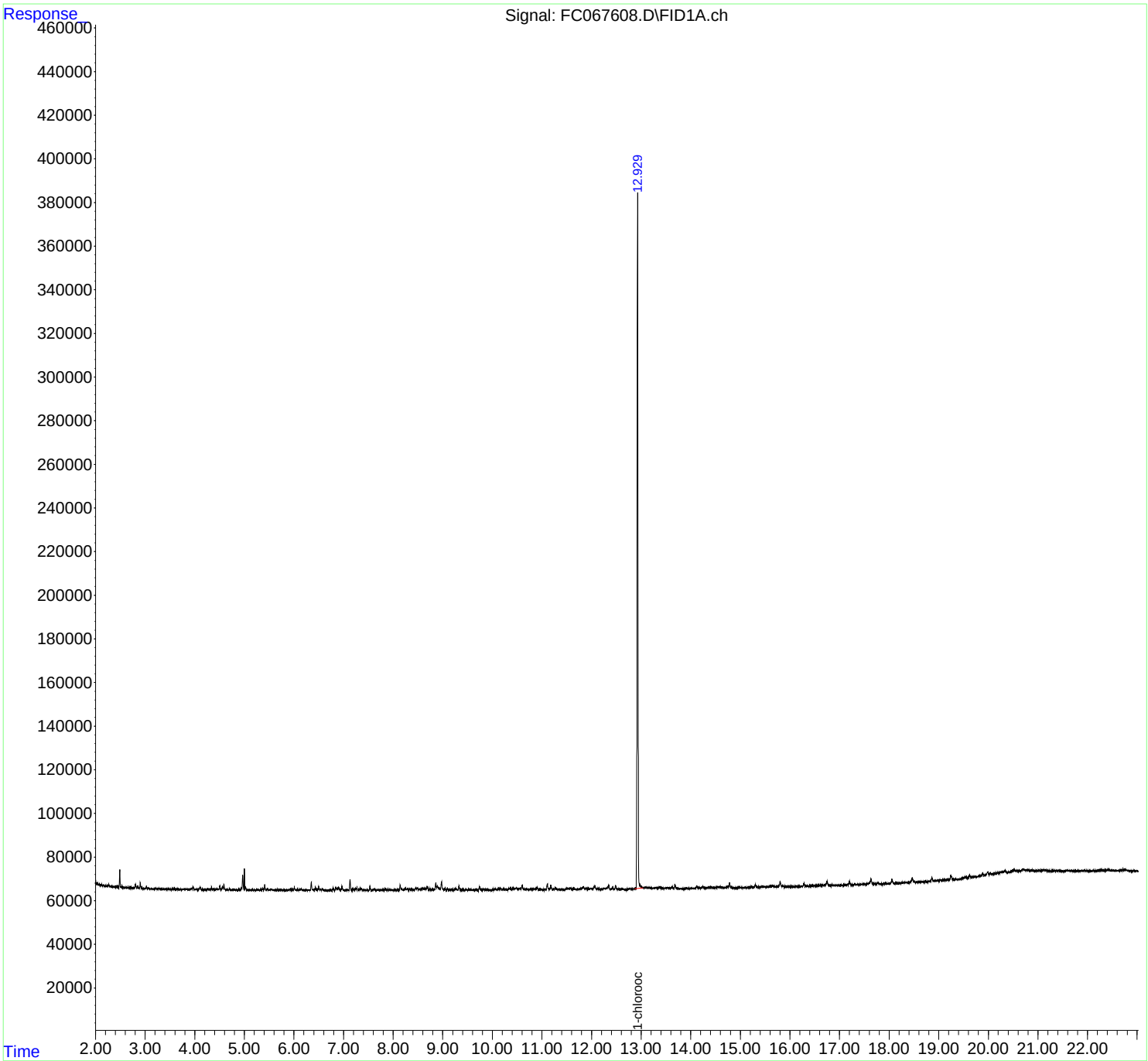
Quantitation Report (QT Reviewed)

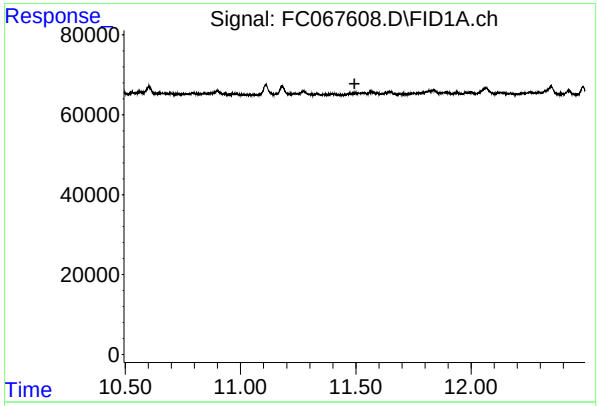
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC110424AL\
Data File : FC067608.D
Signal(s) : FID1A.ch
Acq On : 04 Nov 2024 19:02
Operator : YP/AJ
Sample : P4620-09
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
P001-CF10-01

Integration File: autoint1.e
Quant Time: Nov 05 03:44:37 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

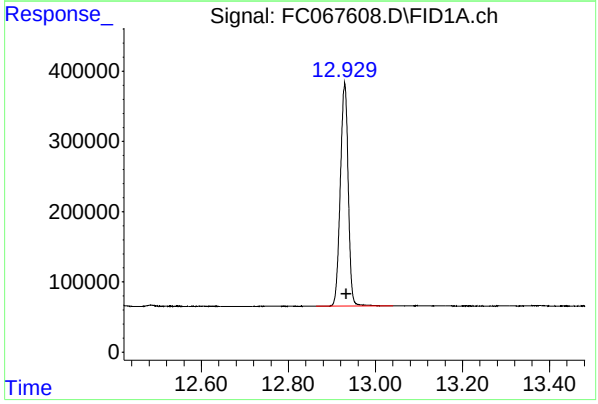




#9 ortho-Terphenyl (SURR)

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

Instrument :
FID_C
ClientSampleId :
P001-CF10-01



#12 1-chlorooctadecane (SURR)

R.T.: 12.929 min
Delta R.T.: -0.004 min
Response: 4001890
Conc: 37.06 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC110424AL\
Data File : FC067608.D
Signal(s) : FID1A.ch
Acq On : 04 Nov 2024 19:02
Sample : P4620-09
Misc :
ALS Vial : 10 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	4.967	4.912	5.010	BV	6823	87797	2.19%	2.088%
2	6.350	6.300	6.382	BB	3562	38244	0.96%	0.909%
3	7.131	7.083	7.165	BB	4892	51394	1.28%	1.222%
4	8.860	8.815	8.878	BV	2576	26400	0.66%	0.628%
5	12.929	12.863	13.040	BB	315125	4001890	100.00%	95.153%

Sum of corrected areas: 4205725

Aliphatic EPH 102324.M Tue Nov 05 05:27:58 2024

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

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	10/29/24
Project:	RFP 872	Date Received:	10/29/24
Client Sample ID:	P001-CF10-01	SDG No.:	P4620
Lab Sample ID:	P4620-09	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	95.2
Sample Wt/Vol:	30.08 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FD048645.D	1	11/03/24	11/04/24	PB164618

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	0.31	U	0.31	0.70	mg/kg
Aromatic C12-C16	Aromatic C12-C16	0.36	U	0.36	1.05	mg/kg
Aromatic C16-C21	Aromatic C16-C21	1.01	U	1.01	1.75	mg/kg
Aromatic C21-C36	Aromatic C21-C36	2.10	U	2.10	2.79	mg/kg
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	44.4		40 - 140	89%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	44.7		40 - 140	89%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	27.6		40 - 140	55%	SPK: 50

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Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	P4620-09	Acq On:	04 Nov 2024 19:02
Client Sample ID:	P001-CF10-01	Operator:	YP/AJ
Data file:	FD048645.D	Misc:	
Instrument:	FID_D	ALS Vial:	60
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic EPH	4.093	18.080	3855494	24.237		ug/ml
2-Bromonaphthalene (SURR)	7.370	7.370	6735242	44.38		ug/ml
2-Flurobiphenyl (SURR)	8.219	8.219	4385468	44.66		ug/ml
ortho-Terphenyl (SURR)	11.254	11.254	4696822	27.57		ug/ml
Aromatic C10-C12	4.093	5.811	209376	1.188	200	ug/ml
Aromatic C12-C16	5.812	8.416	74201	0.419	300	ug/ml
Aromatic C16-C21	8.417	12.676	1710160	10.438	500	ug/ml
Aromatic C21-C36	12.677	18.080	1861757	12.191	800	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD110424AR\
Data File : FD048645.D
Signal(s) : FID2B.ch
Acq On : 04 Nov 2024 19:02
Operator : YP/AJ
Sample : P4620-09
Misc :
ALS Vial : 60 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
P001-CF10-01

Integration File: autoint1.e
Quant Time: Nov 05 02:08:03 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	6735242	44.375 ug/ml
Spiked Amount 50.000		Recovery =	88.75%
6) S 2-Flurobiphenyl (SURR)	8.219	4385468	44.662 ug/ml
Spiked Amount 50.000 Range	0 - 131	Recovery =	89.32%
11) S ortho-Terphenyl (SURR)	11.254	4696822	27.573 ug/ml
Spiked Amount 50.000		Recovery =	55.15%
Target Compounds			

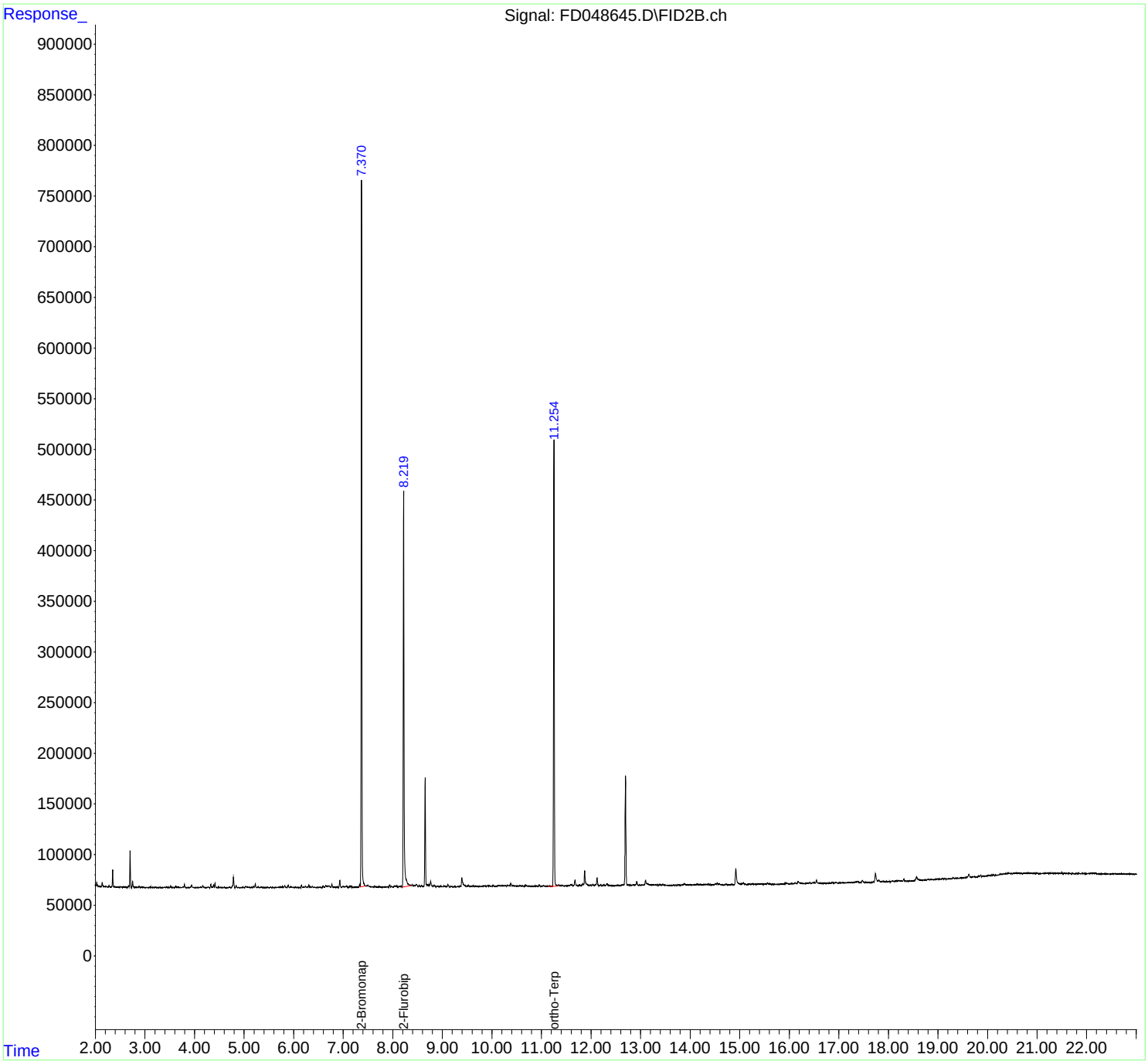
(f)=RT Delta > 1/2 Window (m)=manual int.

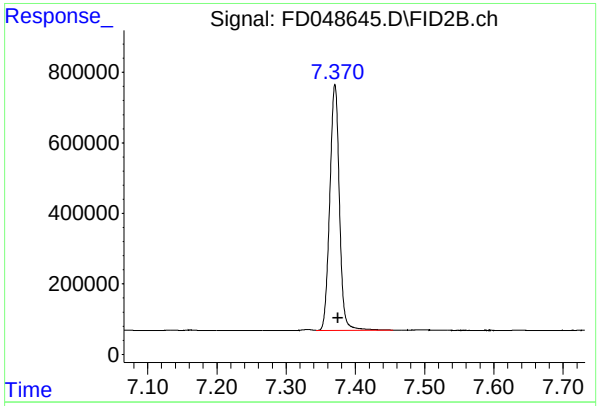
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD110424AR\
Data File : FD048645.D
Signal(s) : FID2B.ch
Acq On : 04 Nov 2024 19:02
Operator : YP/AJ
Sample : P4620-09
Misc :
ALS Vial : 60 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
P001-CF10-01

Integration File: autoint1.e
Quant Time: Nov 05 02:08:03 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

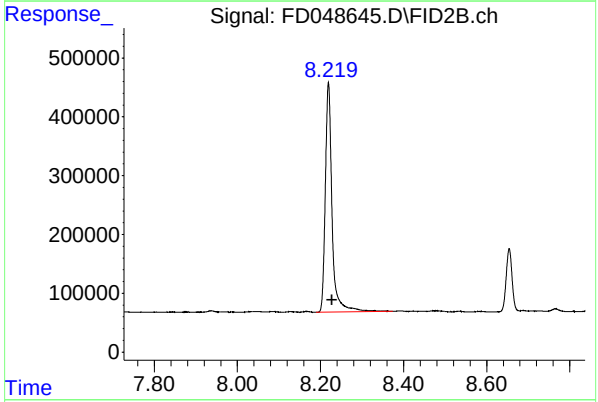




#4 2-Bromonaphthalene (SURR)

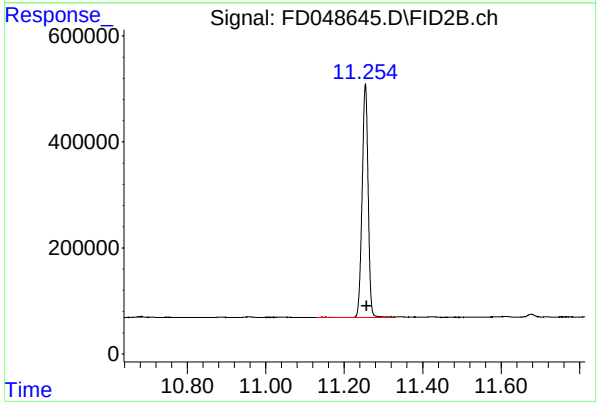
R.T.: 7.370 min
Delta R.T.: -0.004 min
Response: 6735242
Conc: 44.38 ug/ml

Instrument :
FID_D
ClientSampleId :
P001-CF10-01



#6 2-Flurobiphenyl (SURR)

R.T.: 8.219 min
Delta R.T.: -0.009 min
Response: 4385468
Conc: 44.66 ug/ml



#11 ortho-Terphenyl (SURR)

R.T.: 11.254 min
Delta R.T.: -0.003 min
Response: 4696822
Conc: 27.57 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD110424AR\
Data File : FD048645.D
Signal(s) : FID2B.ch
Acq On : 04 Nov 2024 19:02
Sample : P4620-09
Misc :
ALS Vial : 60 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	4.412	4.397	4.464	VV	4380	43855	0.65%	0.223%
2	4.785	4.728	4.820	VV	10335	131284	1.95%	0.667%
3	5.226	5.206	5.249	VV	3586	34237	0.51%	0.174%
4	6.932	6.904	6.964	BV	7035	74201	1.10%	0.377%
5	7.370	7.343	7.454	PV	699454	6735242	100.00%	34.236%
6	8.219	8.189	8.374	PV	388034	4385468	65.11%	22.292%
7	8.654	8.614	8.702	BV	107409	1076785	15.99%	5.473%
8	8.765	8.742	8.796	VV	5042	68081	1.01%	0.346%
9	9.395	9.374	9.511	VV	8687	168712	2.50%	0.858%
10	11.254	11.128	11.324	PV	440975	4696822	69.74%	23.874%
11	11.677	11.641	11.704	VV	5878	77821	1.16%	0.396%
12	11.873	11.851	11.971	VB	14296	213183	3.17%	1.084%
13	12.124	12.074	12.171	BV	7562	105578	1.57%	0.537%
14	12.695	12.638	12.771	VB	107797	1273668	18.91%	6.474%
15	12.922	12.811	12.961	BV	3956	64038	0.95%	0.326%
16	13.100	12.961	13.178	PV	4993	117063	1.74%	0.595%
17	14.920	14.888	15.011	BV	15771	274769	4.08%	1.397%
18	17.738	17.701	17.790	BV	7689	132219	1.96%	0.672%
			Sum of corrected areas:			19673025		

Aromatic EPH 102324.M Tue Nov 05 03:29:51 2024

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

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	10/29/24
Project:	RFP 872	Date Received:	10/29/24
Client Sample ID:	P001-CF10-01	SDG No.:	P4620
Lab Sample ID:	P4620-10	Matrix:	Water
Analytical Method:	NJEPH	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :	SW3510		

Prep Date :	Date Analyzed :	Prep Batch ID
11/03/24 08:20	11/04/24 13:35	PB164637

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	5.76	U	1	5.76	30.0	ug/l	FG014640.D
Aliphatic C12-C16	Aliphatic C12-C16	3.61	U	1	3.61	20.0	ug/l	FG014640.D
Aliphatic C16-C21	Aliphatic C16-C21	5.14	U	1	5.14	30.0	ug/l	FG014640.D
Aliphatic C21-C28	Aliphatic C21-C28	8.97	U	1	8.97	40.0	ug/l	FG014640.D
Aliphatic C28-C40	Aliphatic C28-C40	17.0	U	1	17.0	60.0	ug/l	FG014640.D
Aromatic C10-C12	Aromatic C10-C12	3.32	U	1	3.32	20.0	ug/l	FF014910.D
Aromatic C12-C16	Aromatic C12-C16	3.69	U	1	3.69	30.0	ug/l	FF014910.D
Aromatic C16-C21	Aromatic C16-C21	37.8	J	1	12.7	50.0	ug/l	FF014910.D
Aromatic C21-C36	Aromatic C21-C36	25.2	U	1	25.2	80.0	ug/l	FF014910.D
Total AliphaticEPH	Total AliphaticEPH	40.5	U		40.5	180	ug/l	
Total AromaticEPH	Total AromaticEPH	44.9	U		44.9	180	ug/l	
Total EPH	Total EPH	85.4	U		85.4	360	ug/l	

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

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

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Fax : 908 789 8922

Report of Analysis

Client:	Weston Solutions, Inc.		Date Collected:	10/29/24	
Project:	RFP 872		Date Received:	10/29/24	
Client Sample ID:	P001-CF10-01		SDG No.:	P4620	
Lab Sample ID:	P4620-10		Matrix:	Water	
Analytical Method:	NJEPH		% Solid:	0	
Sample Wt/Vol:	1000	Units: mL	Final Vol:	2000	uL
Soil Aliquot Vol:		uL	Test:	EPH	
Prep Method :	SW3510				

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FF014910.D	1	11/03/24	11/04/24	PB164637

CAS Number	Parameter		Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
Aromatic C10-C12	Aromatic C10-C12		3.32	U	3.32	20.0	ug/l
Aromatic C12-C16	Aromatic C12-C16		3.69	U	3.69	30.0	ug/l
Aromatic C16-C21	Aromatic C16-C21		37.8	J	12.7	50.0	ug/l
Aromatic C21-C36	Aromatic C21-C36		25.2	U	25.2	80.0	ug/l
SURROGATES							
580-13-2	2-Bromonaphthalene (SURR)		50.3		40 - 140	101%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)		49.4		40 - 140	99%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)		49.4		40 - 140	99%	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:	P4620-10	Acq On:	04 Nov 2024 13:35
Client Sample ID:	P001-CF10-01	Operator:	YP\AJ
Data file:	FF014910.D	Misc:	
Instrument:	FID_F	ALS Vial:	65
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.508	6.372	414322	2.654	200	ug/ml
Aromatic C12-C16	6.373	9.064	280622	1.758	300	ug/ml
Aromatic C16-C21	9.065	13.375	2940370	18.923	500	ug/ml
Aromatic C21-C36	13.376	18.817	197747	1.332	800	ug/ml
Aromatic EPH	4.508	18.817	3833061	24.668		ug/ml
ortho-Terphenyl (SURR)	11.930	11.930	7902935	49.4		ug/ml
2-Bromonaphthalene (SURR)	7.993	7.993	7011101	50.28		ug/ml
2-Flurobiphenyl (SURR)	8.867	8.867	4662268	49.44		ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF110424AR\
Data File : FF014910.D
Signal(s) : FID2B.ch
Acq On : 04 Nov 2024 13:35
Operator : YP\AJ
Sample : P4620-10
Misc :
ALS Vial : 65 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
P001-CF10-01

Integration File: autoint1.e
Quant Time: Nov 05 01:26:09 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 102124.M
Quant Title : GC Extractables
QLast Update : Tue Oct 22 04:14:53 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...	7.993	7011101	50.279 ug/ml
Spiked Amount 50.000		Recovery = 100.56%	
6) S 2-Flurobiphenyl (SURR)	8.867	4662268	49.436 ug/ml
Spiked Amount 50.000 Range 0 - 131		Recovery = 98.87%	
11) S ortho-Terphenyl (SURR)	11.930	7902935	49.400 ug/ml
Spiked Amount 50.000		Recovery = 98.80%	
Target Compounds			

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

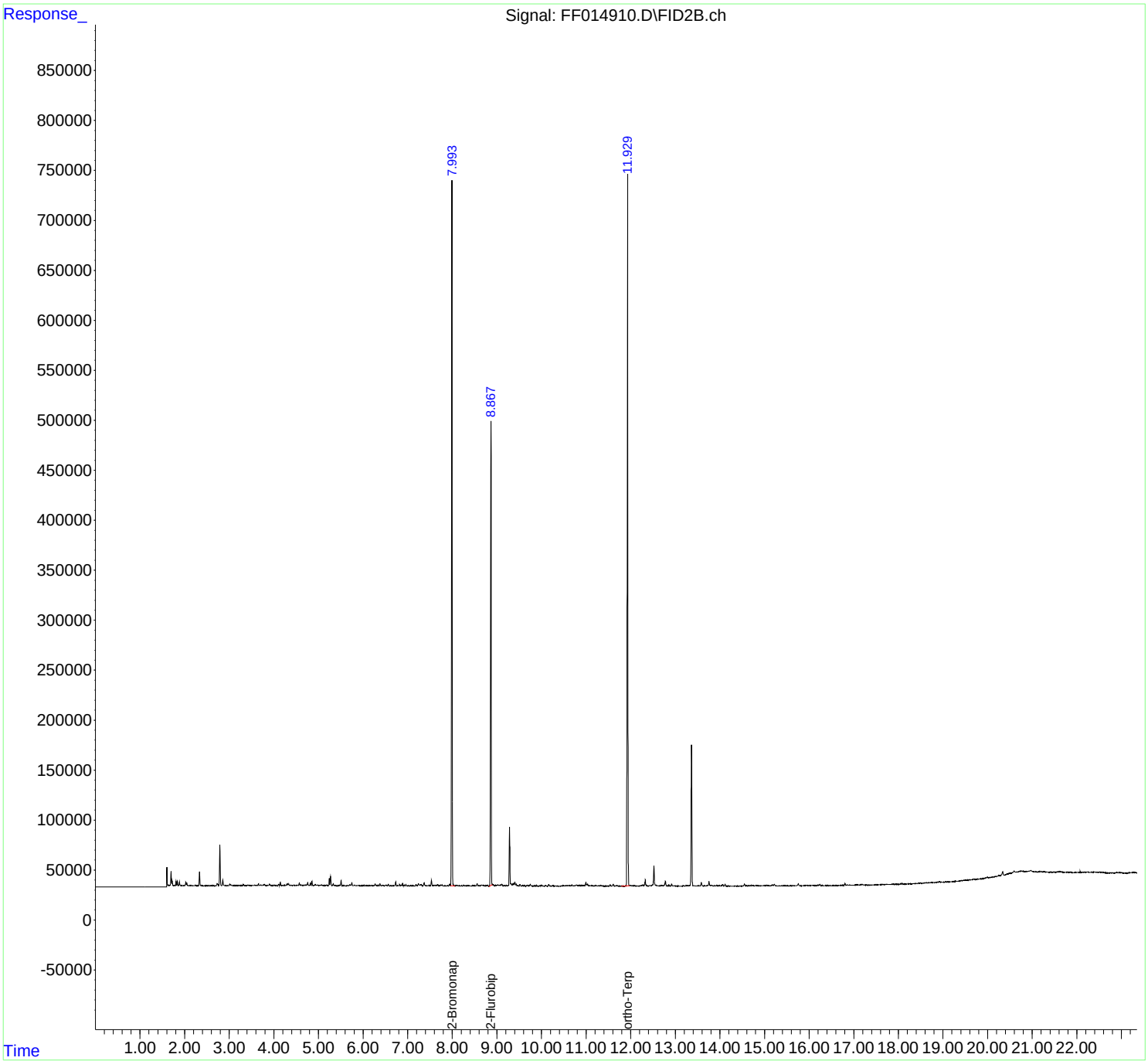
Quantitation Report (QT Reviewed)

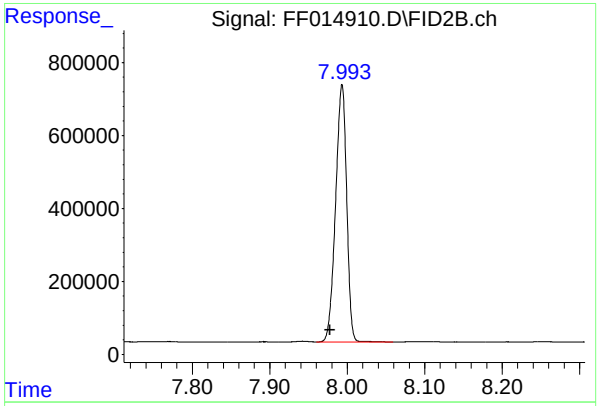
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF110424AR\
Data File : FF014910.D
Signal(s) : FID2B.ch
Acq On : 04 Nov 2024 13:35
Operator : YP\AJ
Sample : P4620-10
Misc :
ALS Vial : 65 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
P001-CF10-01

Integration File: autoint1.e
Quant Time: Nov 05 01:26:09 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 102124.M
Quant Title : GC Extractables
QLast Update : Tue Oct 22 04:14:53 2024
Response via : Initial Calibration
Integrator: ChemStation

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

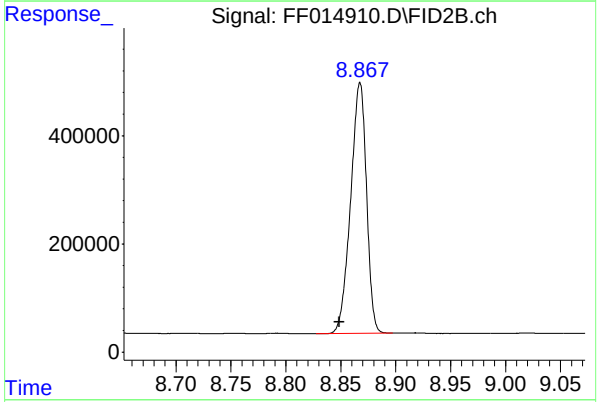




#4 2-Bromonaphthalene (SURR)

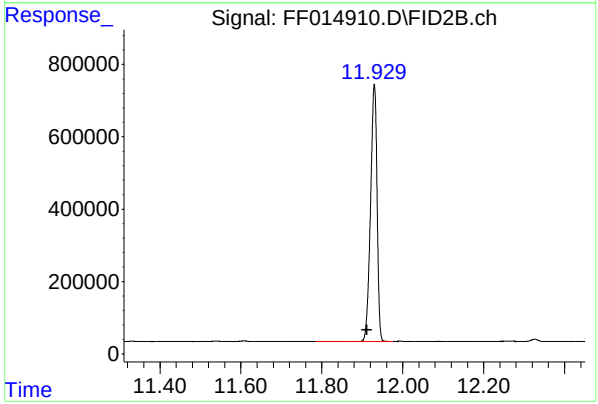
R.T.: 7.993 min
Delta R.T.: 0.015 min
Response: 7011101
Conc: 50.28 ug/ml

Instrument :
FID_F
ClientSampleId :
P001-CF10-01



#6 2-Flurobiphenyl (SURR)

R.T.: 8.867 min
Delta R.T.: 0.018 min
Response: 4662268
Conc: 49.44 ug/ml



#11 ortho-Terphenyl (SURR)

R.T.: 11.930 min
Delta R.T.: 0.018 min
Response: 7902935
Conc: 49.40 ug/ml

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF110424AR\
Data File : FF014910.D
Signal(s) : FID2B.ch
Acq On : 04 Nov 2024 13:35
Sample : P4620-10
Misc :
ALS Vial : 65 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 102124.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	4.571	4.537	4.594	BV	2445	24864	0.31%	0.106%
2	4.759	4.717	4.784	PV	2928	38829	0.49%	0.166%
3	4.822	4.784	4.838	VV	2519	27097	0.34%	0.116%
4	4.855	4.838	4.906	VB	4293	44777	0.57%	0.191%
5	5.242	5.217	5.254	BV	3284	20481	0.26%	0.087%
6	5.272	5.254	5.307	VV	9417	111620	1.41%	0.477%
7	5.332	5.307	5.371	PV	1883	24861	0.31%	0.106%
8	5.508	5.407	5.546	BV	5258	61274	0.78%	0.262%
9	5.750	5.724	5.774	VV	2993	33477	0.42%	0.143%
10	6.273	6.201	6.316	VV	1757	27042	0.34%	0.116%
11	6.380	6.357	6.401	VV	2012	20492	0.26%	0.088%
12	6.733	6.601	6.752	BV	4037	47954	0.61%	0.205%
13	6.887	6.869	6.907	PV	2477	24033	0.30%	0.103%
14	7.241	7.219	7.277	VV	2090	37746	0.48%	0.161%
15	7.370	7.341	7.431	VB	3127	47010	0.59%	0.201%
16	7.535	7.502	7.562	BV	5477	61475	0.78%	0.263%
17	7.943	7.901	7.960	BV	1874	16804	0.21%	0.072%
18	7.993	7.960	8.059	PV	704883	7011101	88.72%	29.950%
19	8.558	8.529	8.581	BV	2346	25108	0.32%	0.107%
20	8.867	8.827	8.897	BV	465000	4662268	58.99%	19.916%
21	9.285	9.242	9.347	BV	58453	631909	8.00%	2.699%
22	9.363	9.347	9.384	VV	1673	19092	0.24%	0.082%
23	9.401	9.384	9.422	VV	2852	32311	0.41%	0.138%
24	10.163	10.124	10.192	BB	1771	21893	0.28%	0.094%
25	10.995	10.974	11.016	VV	4067	49927	0.63%	0.213%
26	11.032	11.016	11.067	VB	1858	26834	0.34%	0.115%
27	11.608	11.564	11.632	PV	1951	26179	0.33%	0.112%
28	11.930	11.786	11.976	BV	712338	7902935	100.00%	33.760%
29	12.326	12.291	12.351	VV	6499	78011	0.99%	0.333%
30	12.518	12.454	12.627	VB	20275	265823	3.36%	1.136%
31	12.776	12.736	12.829	BB	4795	67885	0.86%	0.290%
32	12.915	12.891	12.941	BV	2198	26474	0.33%	0.113%
33	13.361	13.299	13.432	VB	141366	1694032	21.44%	7.237%
34	13.581	13.466	13.626	BV	3439	54215	0.69%	0.232%
35	13.753	13.626	13.777	PB	4070	42530	0.54%	0.182%
36	14.114	14.089	14.154	PB	1828	23196	0.29%	0.099%

rteres

37	14.549	14.426	14.592	BB	1802	23782	0.30%	0.102%
38	15.755	15.712	15.804	BB	1876	26811	0.34%	0.115%
39	16.803	16.679	16.827	BV	1765	27213	0.34%	0.116%

Sum of corrected areas: 23409365

Aromatic EPH 102124.M Tue Nov 05 01:57:27 2024

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

Report of Analysis

Client:	Weston Solutions, Inc.		Date Collected:	10/29/24	
Project:	RFP 872		Date Received:	10/29/24	
Client Sample ID:	P001-CF10-01		SDG No.:	P4620	
Lab Sample ID:	P4620-10		Matrix:	Water	
Analytical Method:	NJEPH		% Solid:	0	
Sample Wt/Vol:	1000	Units: mL	Final Vol:	2000	uL
Soil Aliquot Vol:		uL	Test:	EPH	
Prep Method :	SW3510				

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FG014640.D	1	11/03/24	11/04/24	PB164637

CAS Number	Parameter		Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
Aliphatic C9-C12	Aliphatic C9-C12		5.76	U	5.76	30.0	ug/l
Aliphatic C12-C16	Aliphatic C12-C16		3.61	U	3.61	20.0	ug/l
Aliphatic C16-C21	Aliphatic C16-C21		5.14	U	5.14	30.0	ug/l
Aliphatic C21-C28	Aliphatic C21-C28		8.97	U	8.97	40.0	ug/l
Aliphatic C28-C40	Aliphatic C28-C40		17.0	U	17.0	60.0	ug/l
SURROGATES							
3383-33-2	1-chlorooctadecane (SURR)		45.9		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:	P4620-10	Acq On:	04 Nov 2024 13:35
Client Sample ID:	P001-CF10-01	Operator:	YP\AJ
Data file:	FG014640.D	Misc:	
Instrument:	FID_G	ALS Vial:	15
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.228	6.849	76684	0.584	300	ug/ml
Aliphatic C12-C16	6.850	10.292	36110	0.266	200	ug/ml
Aliphatic C16-C21	10.293	13.665	0	0	300	ug/ml
Aliphatic C21-C28	13.666	17.329	0	0	400	ug/ml
Aliphatic C28-C40	17.330	22.266	0	0	600	ug/ml
Aliphatic EPH	3.228	22.266	112794	0.85		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	13.399	13.399	5636633	45.9		ug/ml
Aliphatic C9-C28	3.228	17.329	112794	0.85	1200	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG110424AL\
Data File : FG014640.D
Signal(s) : FID1A.ch
Acq On : 04 Nov 2024 13:35
Operator : YP\AJ
Sample : P4620-10
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
P001-CF10-01

Integration File: autoint1.e
Quant Time: Nov 05 00:36:47 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 102124.M
Quant Title : GC Extractables
QLast Update : Tue Oct 22 06:49:54 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...	13.399	5636633	45.904 ug/ml
Spiked Amount 50.000		Recovery = 91.81%	
Target Compounds			

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

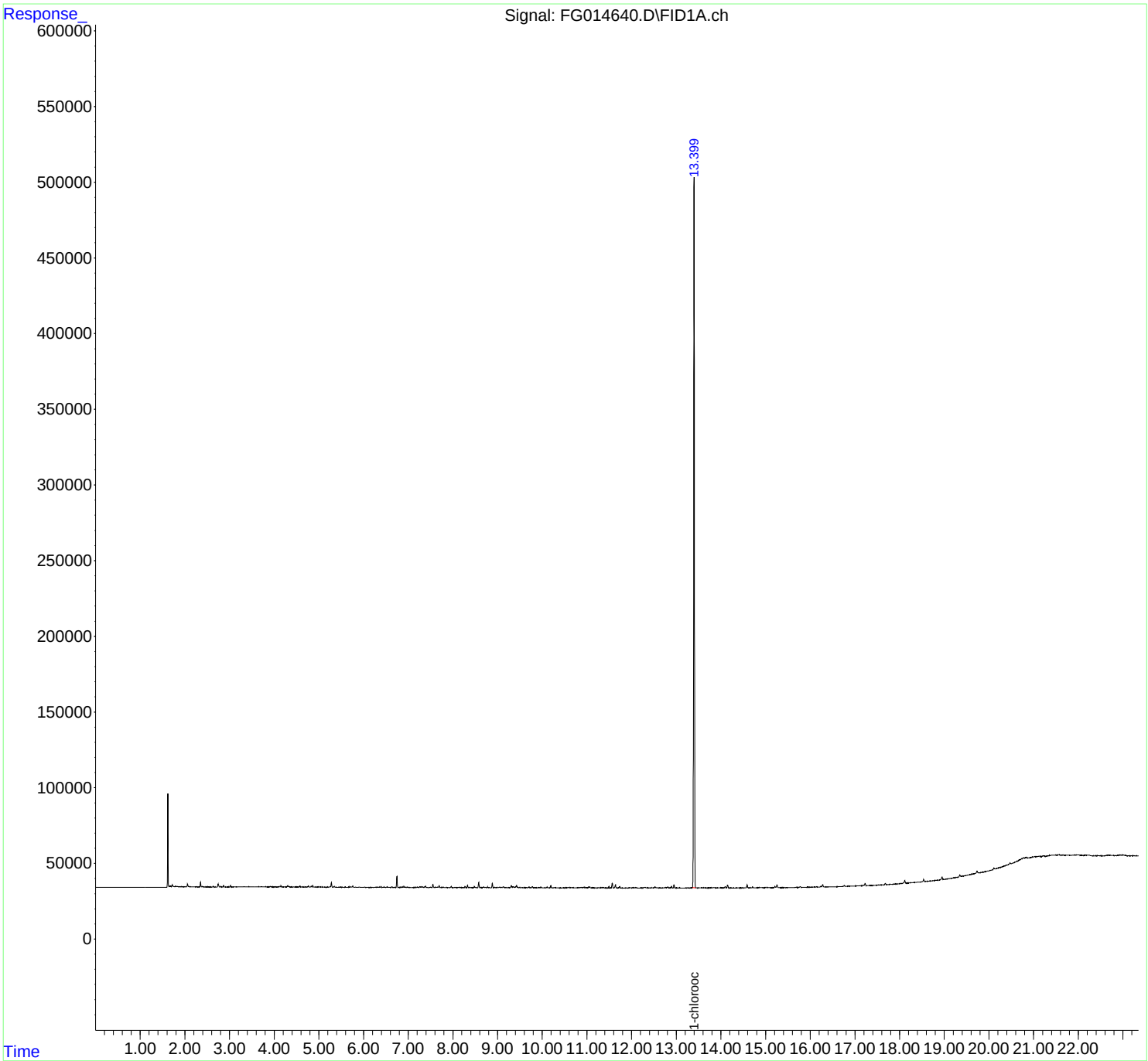
Quantitation Report (QT Reviewed)

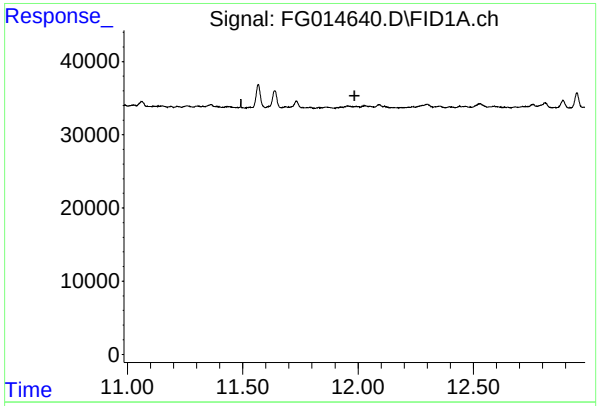
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG110424AL\
Data File : FG014640.D
Signal(s) : FID1A.ch
Acq On : 04 Nov 2024 13:35
Operator : YP\AJ
Sample : P4620-10
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
P001-CF10-01

Integration File: autoint1.e
Quant Time: Nov 05 00:36:47 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 102124.M
Quant Title : GC Extractables
QLast Update : Tue Oct 22 06:49:54 2024
Response via : Initial Calibration
Integrator: ChemStation

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

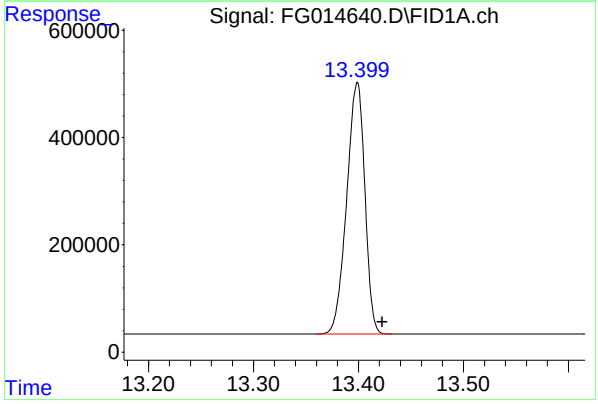




#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.984 min
Response: 0
Conc: N.D.

Instrument :
FID_G
ClientSampleId :
P001-CF10-01



#12 1-chlorooctadecane (SURR)

R.T.: 13.399 min
Delta R.T.: -0.024 min
Response: 5636633
Conc: 45.90 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG110424AL\
Data File : FG014640.D
Signal(s) : FID1A.ch
Acq On : 04 Nov 2024 13:35
Sample : P4620-10
Misc :
ALS Vial : 15 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 102124.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	6.748	6.720	6.778	BB	7496	76684	1.36%	1.334%
2	8.579	8.551	8.603	BB	3414	36110	0.64%	0.628%
3	13.399	13.359	13.433	BB	469925	5636633	100.00%	98.038%
					Sum of corrected areas:	5749427		

Aliphatic EPH 102124.M Tue Nov 05 01:18:20 2024

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

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	10/29/24
Project:	RFP 872	Date Received:	10/29/24
Client Sample ID:	P001-CF11-01	SDG No.:	P4620
Lab Sample ID:	P4620-11	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	95
Sample Wt/Vol:	30.1 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
11/03/24 08:45	11/04/24 19:39	PB164618

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	0.40	U	1	0.40	1.05	mg/kg	FC067609.D
Aliphatic C12-C16	Aliphatic C12-C16	0.25	U	1	0.25	0.70	mg/kg	FC067609.D
Aliphatic C16-C21	Aliphatic C16-C21	0.32	U	1	0.32	1.05	mg/kg	FC067609.D
Aliphatic C21-C28	Aliphatic C21-C28	0.84	U	1	0.84	1.40	mg/kg	FC067609.D
Aliphatic C28-C40	Aliphatic C28-C40	1.89	U	1	1.89	2.10	mg/kg	FC067609.D
Aromatic C10-C12	Aromatic C10-C12	0.32	U	1	0.32	0.70	mg/kg	FD048646.D
Aromatic C12-C16	Aromatic C12-C16	0.36	U	1	0.36	1.05	mg/kg	FD048646.D
Aromatic C16-C21	Aromatic C16-C21	1.01	U	1	1.01	1.75	mg/kg	FD048646.D
Aromatic C21-C36	Aromatic C21-C36	2.10	U	1	2.10	2.80	mg/kg	FD048646.D
Total AliphaticEPH	Total AliphaticEPH	3.69	U		3.69	6.30	mg/kg	
Total AromaticEPH	Total AromaticEPH	3.78	U		3.78	6.30	mg/kg	
Total EPH	Total EPH	7.48	U		7.48	12.6	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:	Weston Solutions, Inc.	Date Collected:	10/29/24
Project:	RFP 872	Date Received:	10/29/24
Client Sample ID:	P001-CF11-01	SDG No.:	P4620
Lab Sample ID:	P4620-11	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	95
Sample Wt/Vol:	30.1 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FC067609.D	1	11/03/24	11/04/24	PB164618

CAS Number	Parameter		Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
Aliphatic C9-C12	Aliphatic C9-C12		0.40	U	0.40	1.05	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16		0.25	U	0.25	0.70	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21		0.32	U	0.32	1.05	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28		0.84	U	0.84	1.40	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40		1.89	U	1.89	2.10	mg/kg
SURROGATES							
3383-33-2	1-chlorooctadecane (SURR)		42.7		40 - 140	85%	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:	P4620-11	Acq On:	04 Nov 2024 19:39
Client Sample ID:	P001-CF11-01	Operator:	YP/AJ
Data file:	FC067609.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	3.171	6.449	120123	0.887	300	ug/ml
Aliphatic C12-C16	6.450	9.838	243104	1.846	200	ug/ml
Aliphatic C16-C21	9.839	13.196	0	0	300	ug/ml
Aliphatic C21-C28	13.197	16.847	0	0	400	ug/ml
Aliphatic C28-C40	16.848	21.685	0	0	600	ug/ml
Aliphatic EPH	3.171	21.685	363227	2.733		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	12.929	12.929	4606734	42.66		ug/ml
Aliphatic C9-C28	3.171	16.847	363227	2.733	1200	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC110424AL\
Data File : FC067609.D
Signal(s) : FID1A.ch
Acq On : 04 Nov 2024 19:39
Operator : YP/AJ
Sample : P4620-11
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
P001-CF11-01

Integration File: autoint1.e
Quant Time: Nov 05 03:44:46 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...	12.929	4606734	42.660 ug/ml
Spiked Amount 50.000		Recovery = 85.32%	
Target Compounds			

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

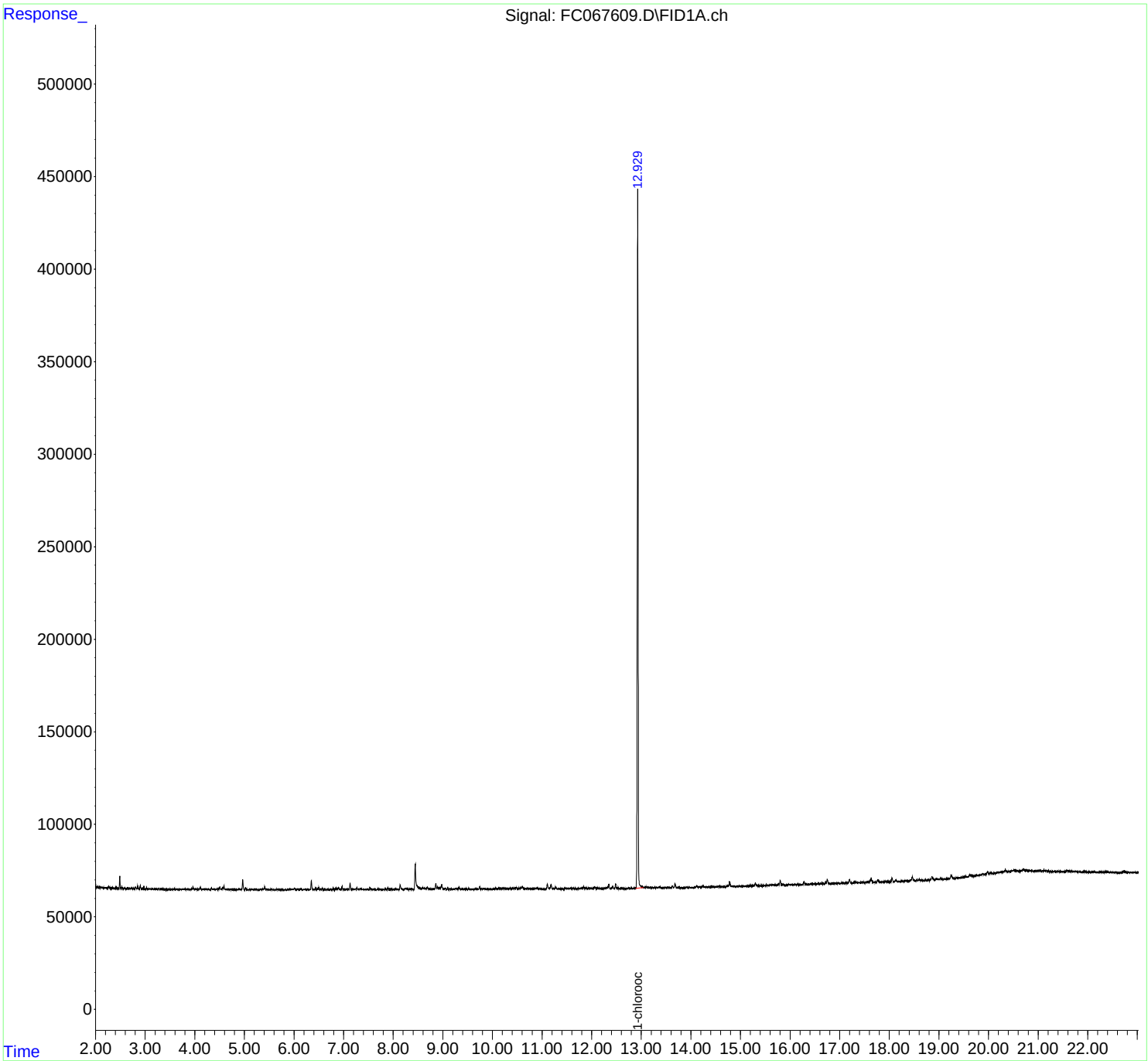
Quantitation Report (QT Reviewed)

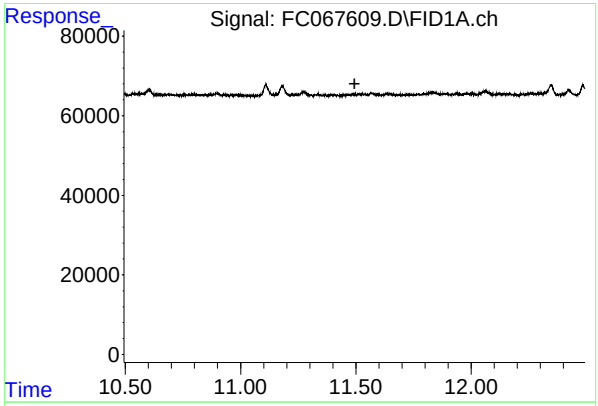
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC110424AL\
Data File : FC067609.D
Signal(s) : FID1A.ch
Acq On : 04 Nov 2024 19:39
Operator : YP/AJ
Sample : P4620-11
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
P001-CF11-01

Integration File: autoint1.e
Quant Time: Nov 05 03:44:46 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

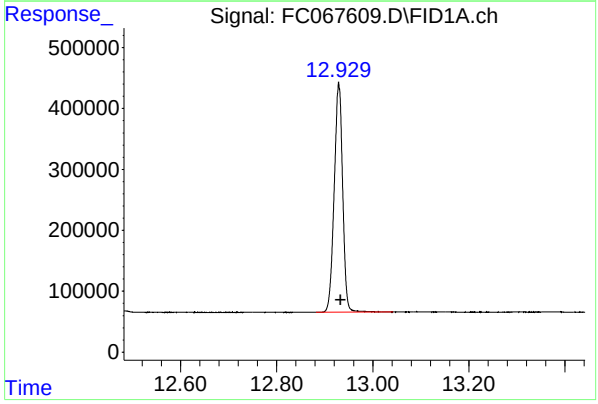




#9 ortho-Terphenyl (SURR)

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

Instrument :
FID_C
ClientSampleId :
P001-CF11-01



#12 1-chlorooctadecane (SURR)

R.T.: 12.929 min
Delta R.T.: -0.004 min
Response: 4606734
Conc: 42.66 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC110424AL\
Data File : FC067609.D
Signal(s) : FID1A.ch
Acq On : 04 Nov 2024 19:39
Sample : P4620-11
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	4.967	4.857	4.999	BB	5462	65916	1.43%	1.326%
2	6.350	6.295	6.394	BB	4716	54207	1.18%	1.091%
3	7.131	7.084	7.159	BB	3574	36573	0.79%	0.736%
4	8.445	8.399	8.527	BB	13711	206531	4.48%	4.156%
5	12.929	12.882	13.042	BB	375395	4606734	100.00%	92.692%

Sum of corrected areas: 4969961

Aliphatic EPH 102324.M Tue Nov 05 05:28:07 2024

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

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	10/29/24
Project:	RFP 872	Date Received:	10/29/24
Client Sample ID:	P001-CF11-01	SDG No.:	P4620
Lab Sample ID:	P4620-11	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	95
Sample Wt/Vol:	30.1 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FD048646.D	1	11/03/24	11/04/24	PB164618

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	0.32	U	0.32	0.70	mg/kg
Aromatic C12-C16	Aromatic C12-C16	0.36	U	0.36	1.05	mg/kg
Aromatic C16-C21	Aromatic C16-C21	1.01	U	1.01	1.75	mg/kg
Aromatic C21-C36	Aromatic C21-C36	2.10	U	2.10	2.80	mg/kg
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	49.6		40 - 140	99%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	47.6		40 - 140	95%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	24.4		40 - 140	49%	SPK: 50

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Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	P4620-11	Acq On:	04 Nov 2024 19:39
Client Sample ID:	P001-CF11-01	Operator:	YP/AJ
Data file:	FD048646.D	Misc:	
Instrument:	FID_D	ALS Vial:	61
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic EPH	4.093	18.080	4121099	25.943		ug/ml
2-Bromonaphthalene (SURR)	7.371	7.371	7524964	49.58		ug/ml
2-Flurobiphenyl (SURR)	8.220	8.220	4669674	47.56		ug/ml
ortho-Terphenyl (SURR)	11.254	11.254	4158685	24.41		ug/ml
Aromatic C10-C12	4.093	5.811	83573	0.474	200	ug/ml
Aromatic C12-C16	5.812	8.416	100588	0.567	300	ug/ml
Aromatic C16-C21	8.417	12.676	1978110	12.074	500	ug/ml
Aromatic C21-C36	12.677	18.080	1958828	12.827	800	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD110424AR\
Data File : FD048646.D
Signal(s) : FID2B.ch
Acq On : 04 Nov 2024 19:39
Operator : YP/AJ
Sample : P4620-11
Misc :
ALS Vial : 61 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
P001-CF11-01

Integration File: autoint1.e
Quant Time: Nov 05 02:08:11 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	7524964	49.578 ug/ml
Spiked Amount 50.000		Recovery =	99.16%
6) S 2-Flurobiphenyl (SURR)	8.220	4669674	47.557 ug/ml
Spiked Amount 50.000 Range	0 - 131	Recovery =	95.11%
11) S ortho-Terphenyl (SURR)	11.254	4158685	24.414 ug/ml
Spiked Amount 50.000		Recovery =	48.83%
Target Compounds			

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

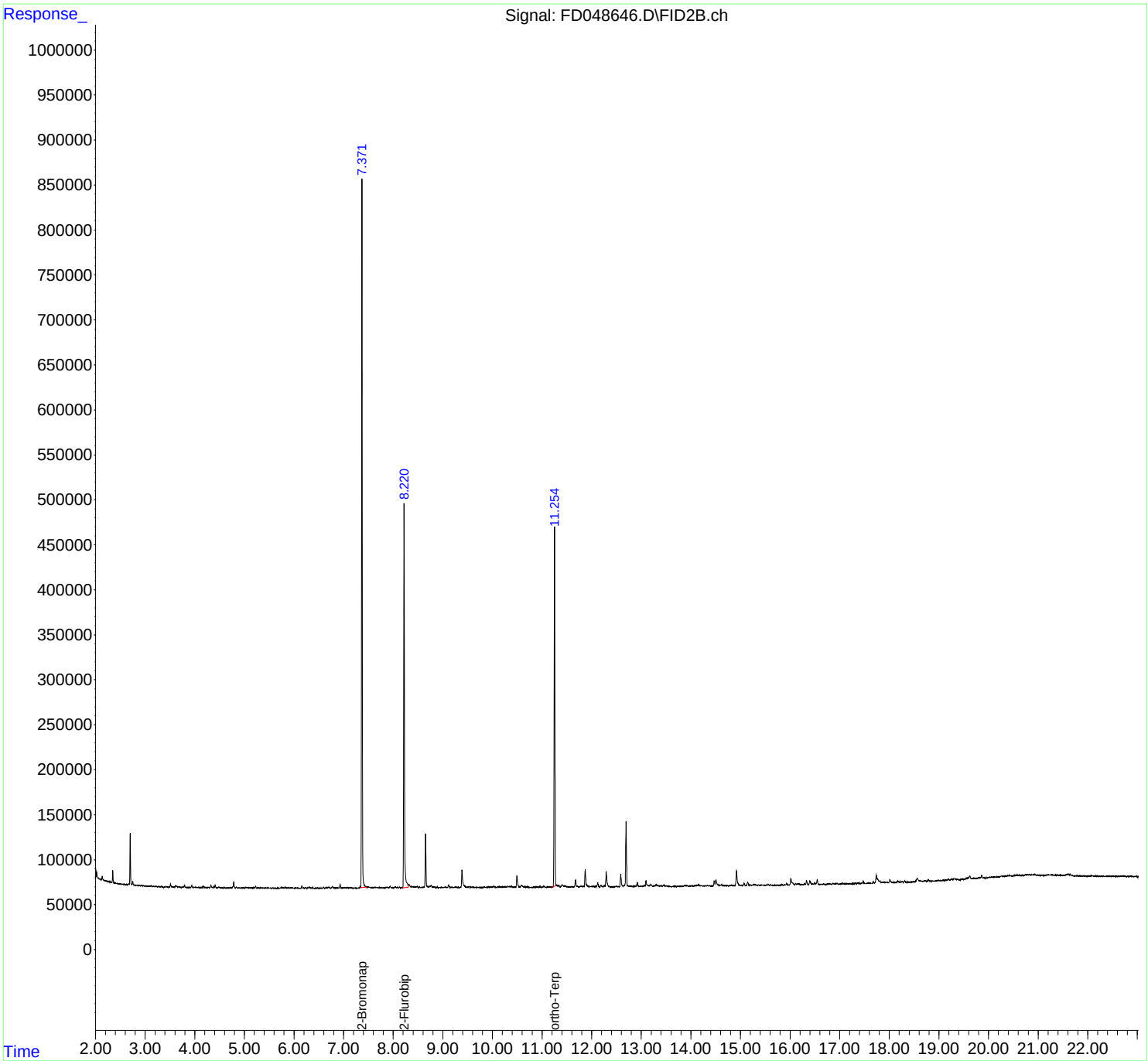
Quantitation Report (QT Reviewed)

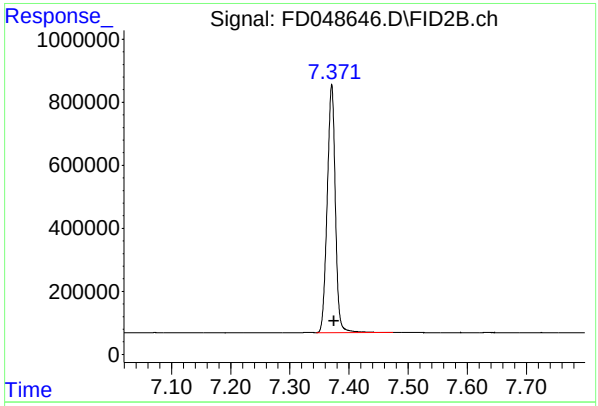
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD110424AR\
Data File : FD048646.D
Signal(s) : FID2B.ch
Acq On : 04 Nov 2024 19:39
Operator : YP/AJ
Sample : P4620-11
Misc :
ALS Vial : 61 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
P001-CF11-01

Integration File: autoint1.e
Quant Time: Nov 05 02:08:11 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

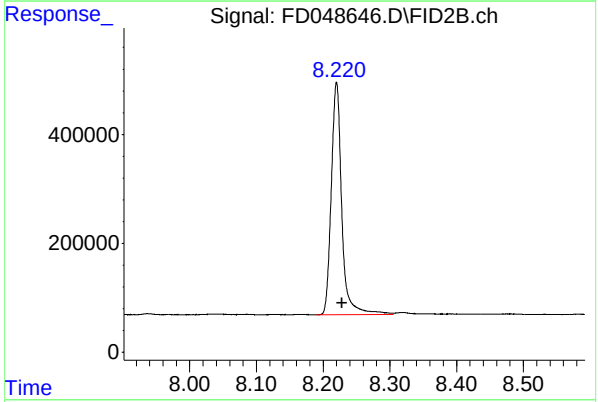




#4 2-Bromonaphthalene (SURR)

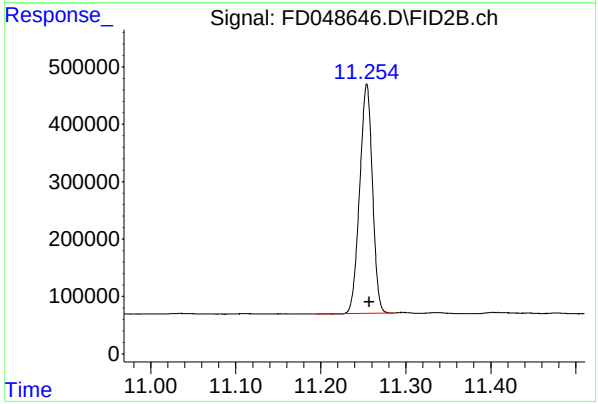
R.T.: 7.371 min
Delta R.T.: -0.004 min
Response: 7524964
Conc: 49.58 ug/ml

Instrument :
FID_D
ClientSampleId :
P001-CF11-01



#6 2-Flurobiphenyl (SURR)

R.T.: 8.220 min
Delta R.T.: -0.008 min
Response: 4669674
Conc: 47.56 ug/ml



#11 ortho-Terphenyl (SURR)

R.T.: 11.254 min
Delta R.T.: -0.003 min
Response: 4158685
Conc: 24.41 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD110424AR\
Data File : FD048646.D
Signal(s) : FID2B.ch
Acq On : 04 Nov 2024 19:39
Sample : P4620-11
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	3.512	3.464	3.558	BB	3433	38946	0.52%	0.190%
2	4.785	4.654	4.824	BV	6438	83573	1.11%	0.407%
3	6.931	6.858	6.971	BV	4050	44432	0.59%	0.217%
4	7.371	7.344	7.474	PV	789904	7524964	100.00%	36.683%
5	8.220	8.189	8.305	PV	428701	4669674	62.06%	22.764%
6	8.319	8.305	8.381	VV	3430	56156	0.75%	0.274%
7	8.654	8.607	8.708	PV	59634	618612	8.22%	3.016%
8	9.388	9.294	9.508	PV	19375	314672	4.18%	1.534%
9	10.495	10.461	10.564	PV	12741	188506	2.51%	0.919%
10	11.254	11.194	11.285	BV	400526	4158685	55.27%	20.273%
11	11.676	11.629	11.699	PV	7769	91282	1.21%	0.445%
12	11.872	11.848	11.938	VV	19161	238410	3.17%	1.162%
13	12.124	12.064	12.161	BV	4542	66770	0.89%	0.325%
14	12.294	12.272	12.378	VB	16549	256696	3.41%	1.251%
15	12.587	12.401	12.637	BV	13874	203162	2.70%	0.990%
16	12.695	12.667	12.764	VV	72346	864701	11.49%	4.215%
17	12.921	12.821	12.959	BV	4542	68634	0.91%	0.335%
18	13.097	13.077	13.134	VV	5961	73976	0.98%	0.361%
19	14.469	14.415	14.486	PV	5572	74712	0.99%	0.364%
20	14.505	14.486	14.568	VV	6579	128436	1.71%	0.626%
21	14.919	14.873	15.038	PV	16375	282194	3.75%	1.376%
22	15.145	15.114	15.171	BV	3346	44296	0.59%	0.216%
23	16.015	15.961	16.038	BV	5367	49151	0.65%	0.240%
24	16.331	16.311	16.369	VV	4475	59741	0.79%	0.291%
25	16.397	16.369	16.442	PV	4191	78380	1.04%	0.382%
26	16.546	16.522	16.594	VB	5230	76015	1.01%	0.371%
27	17.738	17.701	17.795	BV	7665	158592	2.11%	0.773%
			Sum of corrected areas:			20513367		

Aromatic EPH 102324.M Tue Nov 05 03:30:02 2024

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

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	10/29/24
Project:	RFP 872	Date Received:	10/29/24
Client Sample ID:	P001-CF11-01	SDG No.:	P4620
Lab Sample ID:	P4620-12	Matrix:	Water
Analytical Method:	NJEPH	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :	SW3510		

Prep Date :	Date Analyzed :	Prep Batch ID
11/03/24 08:20	11/04/24 14:04	PB164637

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	5.76	U	1	5.76	30.0	ug/l	FG014641.D
Aliphatic C12-C16	Aliphatic C12-C16	3.61	U	1	3.61	20.0	ug/l	FG014641.D
Aliphatic C16-C21	Aliphatic C16-C21	5.14	U	1	5.14	30.0	ug/l	FG014641.D
Aliphatic C21-C28	Aliphatic C21-C28	8.97	U	1	8.97	40.0	ug/l	FG014641.D
Aliphatic C28-C40	Aliphatic C28-C40	17.0	U	1	17.0	60.0	ug/l	FG014641.D
Aromatic C10-C12	Aromatic C10-C12	3.32	U	1	3.32	20.0	ug/l	FF014911.D
Aromatic C12-C16	Aromatic C12-C16	3.69	U	1	3.69	30.0	ug/l	FF014911.D
Aromatic C16-C21	Aromatic C16-C21	86.3		1	12.7	50.0	ug/l	FF014911.D
Aromatic C21-C36	Aromatic C21-C36	25.2	U	1	25.2	80.0	ug/l	FF014911.D
Total AliphaticEPH	Total AliphaticEPH	40.5	U		40.5	180	ug/l	
Total AromaticEPH	Total AromaticEPH	86.3	J		44.9	180	ug/l	
Total EPH	Total EPH	86.3	J		85.4	360	ug/l	

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

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

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

Report of Analysis

Client:	Weston Solutions, Inc.		Date Collected:	10/29/24	
Project:	RFP 872		Date Received:	10/29/24	
Client Sample ID:	P001-CF11-01		SDG No.:	P4620	
Lab Sample ID:	P4620-12		Matrix:	Water	
Analytical Method:	NJEPH		% Solid:	0	
Sample Wt/Vol:	1000	Units: mL	Final Vol:	2000	uL
Soil Aliquot Vol:		uL	Test:	EPH	
Prep Method :	SW3510				

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FF014911.D	1	11/03/24	11/04/24	PB164637

CAS Number	Parameter		Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
Aromatic C10-C12	Aromatic C10-C12		3.32	U	3.32	20.0	ug/l
Aromatic C12-C16	Aromatic C12-C16		3.69	U	3.69	30.0	ug/l
Aromatic C16-C21	Aromatic C16-C21		86.3		12.7	50.0	ug/l
Aromatic C21-C36	Aromatic C21-C36		25.2	U	25.2	80.0	ug/l
SURROGATES							
580-13-2	2-Bromonaphthalene (SURR)		43.9		40 - 140	88%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)		43.9		40 - 140	88%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)		44.0		40 - 140	88%	SPK: 50

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Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	P4620-12	Acq On:	04 Nov 2024 14:04
Client Sample ID:	P001-CF11-01	Operator:	YP\AJ
Data file:	FF014911.D	Misc:	
Instrument:	FID_F	ALS Vial:	66
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.508	6.372	286706	1.837	200	ug/ml
Aromatic C12-C16	6.373	9.064	297724	1.865	300	ug/ml
Aromatic C16-C21	9.065	13.375	6706547	43.161	500	ug/ml
Aromatic C21-C36	13.376	18.817	187450	1.263	800	ug/ml
Aromatic EPH	4.508	18.817	7478427	48.125		ug/ml
ortho-Terphenyl (SURR)	11.929	11.929	7043579	44.03		ug/ml
2-Bromonaphthalene (SURR)	7.992	7.992	6117916	43.87		ug/ml
2-Flurobiphenyl (SURR)	8.866	8.866	4136874	43.86		ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF110424AR\
Data File : FF014911.D
Signal(s) : FID2B.ch
Acq On : 04 Nov 2024 14:04
Operator : YP\AJ
Sample : P4620-12
Misc :
ALS Vial : 66 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
P001-CF11-01

Integration File: autoint1.e
Quant Time: Nov 05 01:26:17 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 102124.M
Quant Title : GC Extractables
QLast Update : Tue Oct 22 04:14:53 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...	7.992	6117916	43.873 ug/ml
Spiked Amount 50.000		Recovery = 87.75%	
6) S 2-Flurobiphenyl (SURR)	8.866	4136874	43.865 ug/ml
Spiked Amount 50.000 Range 0 - 131		Recovery = 87.73%	
11) S ortho-Terphenyl (SURR)	11.929	7043579	44.029 ug/ml
Spiked Amount 50.000		Recovery = 88.06%	
Target Compounds			

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

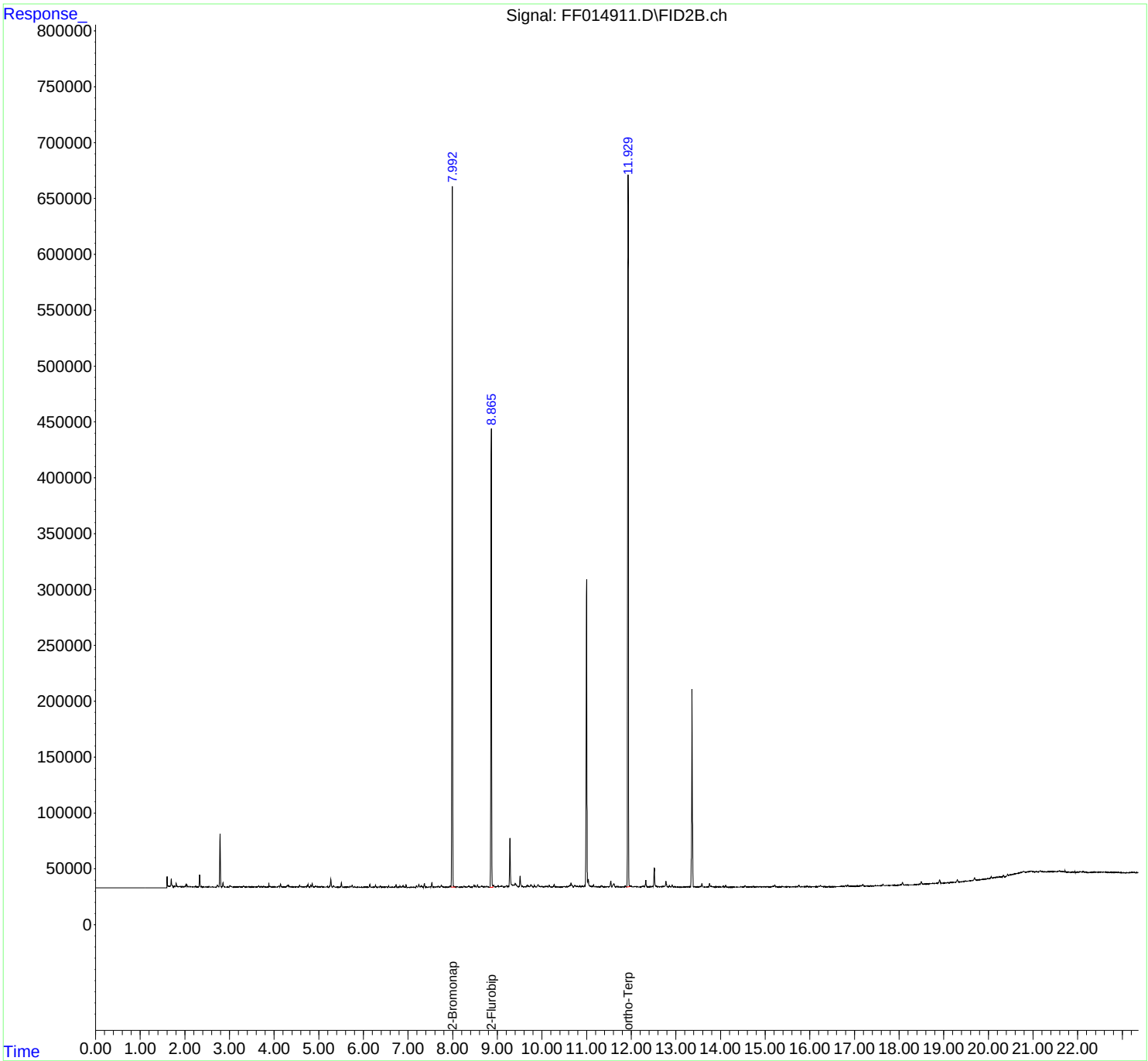
Quantitation Report (QT Reviewed)

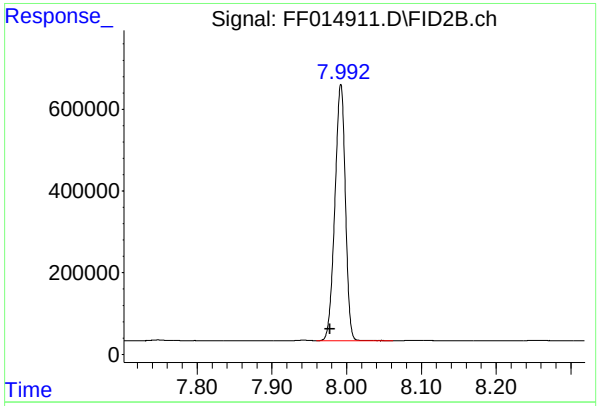
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF110424AR\
Data File : FF014911.D
Signal(s) : FID2B.ch
Acq On : 04 Nov 2024 14:04
Operator : YP\AJ
Sample : P4620-12
Misc :
ALS Vial : 66 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
P001-CF11-01

Integration File: autoint1.e
Quant Time: Nov 05 01:26:17 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 102124.M
Quant Title : GC Extractables
QLast Update : Tue Oct 22 04:14:53 2024
Response via : Initial Calibration
Integrator: ChemStation

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

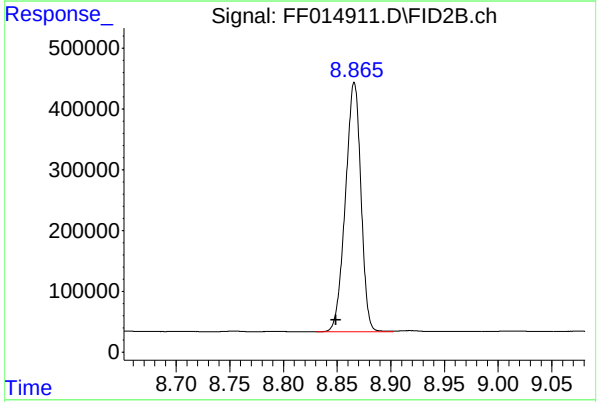




#4 2-Bromonaphthalene (SURR)

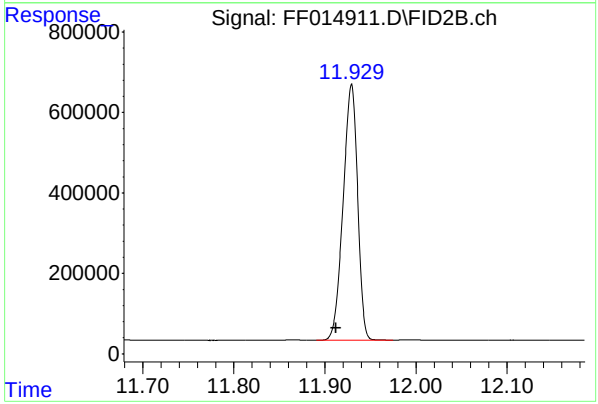
R.T.: 7.992 min
Delta R.T.: 0.015 min
Response: 6117916
Conc: 43.87 ug/ml

Instrument :
FID_F
ClientSampleId :
P001-CF11-01



#6 2-Flurobiphenyl (SURR)

R.T.: 8.866 min
Delta R.T.: 0.017 min
Response: 4136874
Conc: 43.86 ug/ml



#11 ortho-Terphenyl (SURR)

R.T.: 11.929 min
Delta R.T.: 0.017 min
Response: 7043579
Conc: 44.03 ug/ml

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF110424AR\
Data File : FF014911.D
Signal(s) : FID2B.ch
Acq On : 04 Nov 2024 14:04
Sample : P4620-12
Misc :
ALS Vial : 66 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 102124.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	4.759	4.717	4.800	PV	2189	29298	0.42%	0.118%
2	4.854	4.836	4.900	VB	3335	34123	0.48%	0.138%
3	5.271	5.130	5.305	BV	7134	102749	1.46%	0.415%
4	5.508	5.434	5.542	BV	4180	46492	0.66%	0.188%
5	5.749	5.720	5.792	VV	2001	26804	0.38%	0.108%
6	6.144	6.039	6.165	PV	2534	27641	0.39%	0.112%
7	6.272	6.224	6.305	BV	1845	19599	0.28%	0.079%
8	6.732	6.600	6.762	BV	2520	37623	0.53%	0.152%
9	6.886	6.869	6.906	VV	1769	16393	0.23%	0.066%
10	7.243	7.217	7.270	VV	2665	38447	0.55%	0.155%
11	7.367	7.339	7.414	VB	3250	42240	0.60%	0.170%
12	7.535	7.514	7.564	VV	4138	46841	0.67%	0.189%
13	7.748	7.697	7.787	PV	1952	30710	0.44%	0.124%
14	7.992	7.959	8.062	PV	629147	6117916	86.86%	24.692%
15	8.479	8.419	8.494	BV	2118	29007	0.41%	0.117%
16	8.557	8.527	8.604	VB	2012	24027	0.34%	0.097%
17	8.866	8.830	8.902	BV	410984	4136874	58.73%	16.697%
18	8.918	8.902	8.952	VV	1938	32436	0.46%	0.131%
19	9.285	9.227	9.349	VV	43246	549037	7.79%	2.216%
20	9.371	9.349	9.385	VV	1893	36377	0.52%	0.147%
21	9.402	9.385	9.462	VV	3056	73445	1.04%	0.296%
22	9.512	9.462	9.550	VV	9634	118992	1.69%	0.480%
23	9.754	9.717	9.802	VV	2325	49719	0.71%	0.201%
24	9.917	9.870	9.940	VV	2301	48761	0.69%	0.197%
25	10.164	10.141	10.195	VB	1779	24527	0.35%	0.099%
26	10.274	10.217	10.300	BV	2406	36626	0.52%	0.148%
27	10.653	10.577	10.704	PV	3661	89137	1.27%	0.360%
28	11.001	10.969	11.025	VV	271745	2948764	41.86%	11.901%
29	11.037	11.025	11.095	VB	6303	83598	1.19%	0.337%
30	11.544	11.490	11.569	BV	5227	67984	0.97%	0.274%
31	11.613	11.569	11.647	PV	2932	60666	0.86%	0.245%
32	11.929	11.890	11.975	PV	636674	7043579	100.00%	28.428%
33	12.326	12.294	12.354	VV	5972	73224	1.04%	0.296%
34	12.518	12.455	12.614	BB	16961	218718	3.11%	0.883%
35	12.778	12.647	12.824	BV	5177	94169	1.34%	0.380%
36	12.916	12.885	12.950	PV	2174	27672	0.39%	0.112%

rteres

37	13.362	13.295	13.430	BB	176770	2105131	29.89%	8.496%
38	13.580	13.477	13.620	BV	3084	49601	0.70%	0.200%
39	13.753	13.620	13.785	PB	2851	30112	0.43%	0.122%
40	14.114	14.090	14.154	PB	1818	23105	0.33%	0.093%
41	18.075	17.992	18.105	BB	2559	42113	0.60%	0.170%
42	18.496	18.294	18.530	BB	2438	42519	0.60%	0.172%

Sum of corrected areas: 24776793

Aromatic EPH 102124.M Tue Nov 05 01:57:38 2024

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

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	10/29/24
Project:	RFP 872	Date Received:	10/29/24
Client Sample ID:	P001-CF11-01	SDG No.:	P4620
Lab Sample ID:	P4620-12	Matrix:	Water
Analytical Method:	NJEPH	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :	SW3510		

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FG014641.D	1	11/03/24	11/04/24	PB164637

CAS Number	Parameter		Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
Aliphatic C9-C12	Aliphatic C9-C12		5.76	U	5.76	30.0	ug/l
Aliphatic C12-C16	Aliphatic C12-C16		3.61	U	3.61	20.0	ug/l
Aliphatic C16-C21	Aliphatic C16-C21		5.14	U	5.14	30.0	ug/l
Aliphatic C21-C28	Aliphatic C21-C28		8.97	U	8.97	40.0	ug/l
Aliphatic C28-C40	Aliphatic C28-C40		17.0	U	17.0	60.0	ug/l
SURROGATES							
3383-33-2	1-chlorooctadecane (SURR)		47.4		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:	P4620-12	Acq On:	04 Nov 2024 14:04
Client Sample ID:	P001-CF11-01	Operator:	YP\AJ
Data file:	FG014641.D	Misc:	
Instrument:	FID_G	ALS Vial:	16
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.228	6.849	112394	0.856	300	ug/ml
Aliphatic C12-C16	6.850	10.292	53502	0.394	200	ug/ml
Aliphatic C16-C21	10.293	13.665	87129	0.617	300	ug/ml
Aliphatic C21-C28	13.666	17.329	0	0	400	ug/ml
Aliphatic C28-C40	17.330	22.266	0	0	600	ug/ml
Aliphatic EPH	3.228	22.266	253025	1.866		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	13.399	13.399	5813759	47.35		ug/ml
Aliphatic C9-C28	3.228	17.329	253025	1.867	1200	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG110424AL\
Data File : FG014641.D
Signal(s) : FID1A.ch
Acq On : 04 Nov 2024 14:04
Operator : YP\AJ
Sample : P4620-12
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
P001-CF11-01

Integration File: autoint1.e
Quant Time: Nov 05 00:36:56 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 102124.M
Quant Title : GC Extractables
QLast Update : Tue Oct 22 06:49:54 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...	13.399	5813759	47.347 ug/ml
Spiked Amount 50.000		Recovery = 94.69%	
Target Compounds			

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

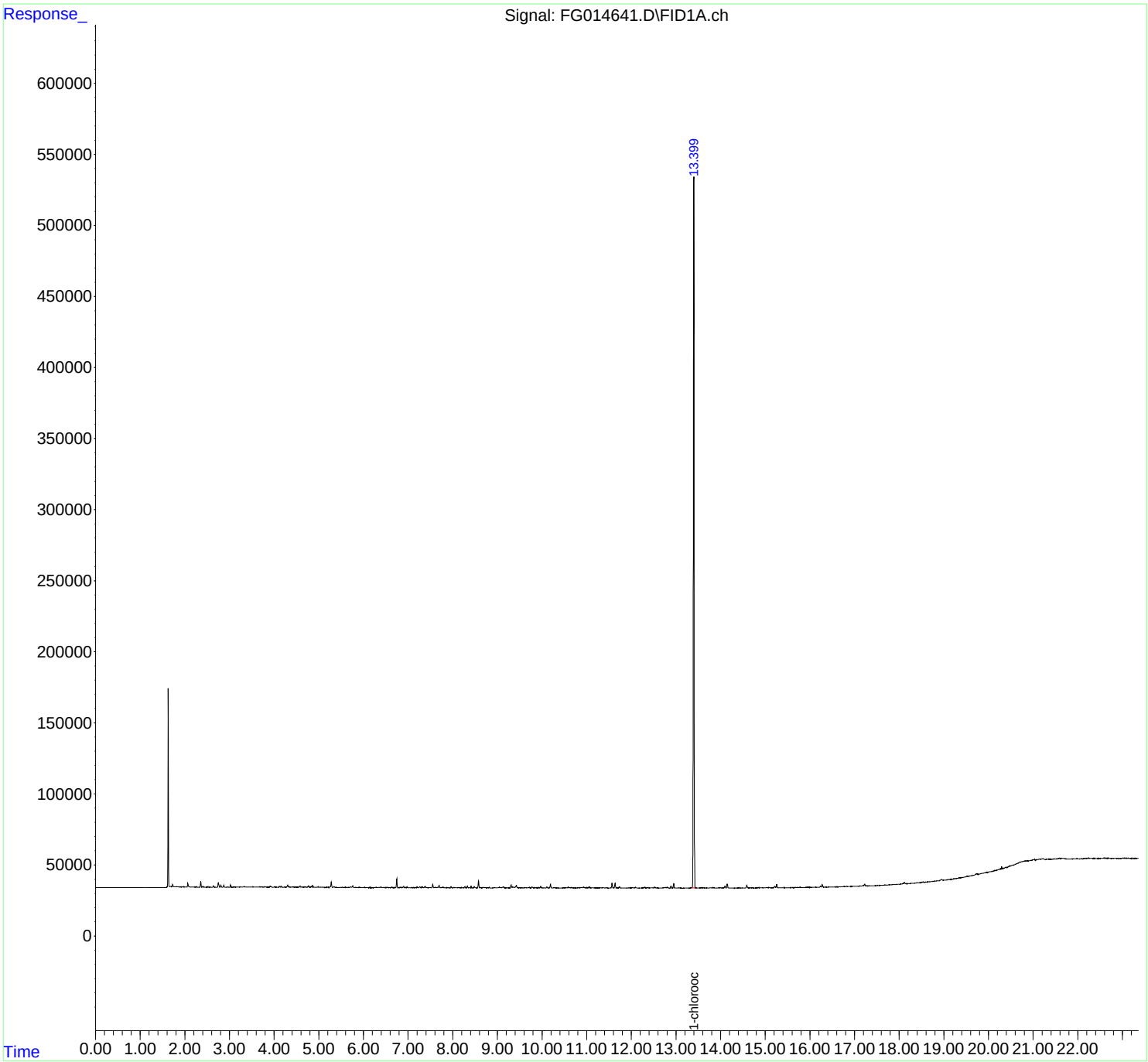
Quantitation Report (QT Reviewed)

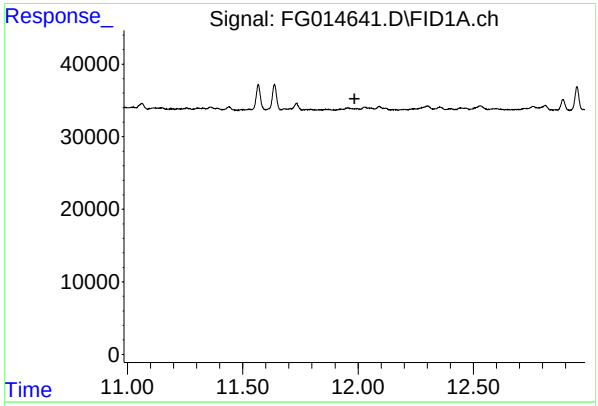
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG110424AL\
Data File : FG014641.D
Signal(s) : FID1A.ch
Acq On : 04 Nov 2024 14:04
Operator : YP\AJ
Sample : P4620-12
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
P001-CF11-01

Integration File: autoint1.e
Quant Time: Nov 05 00:36:56 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 102124.M
Quant Title : GC Extractables
QLast Update : Tue Oct 22 06:49:54 2024
Response via : Initial Calibration
Integrator: ChemStation

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

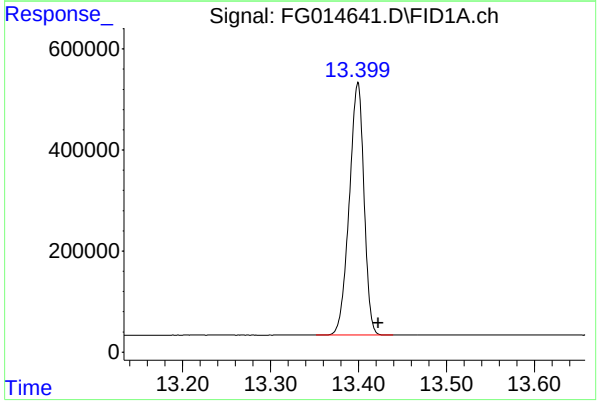




#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.984 min
Response: 0
Conc: N.D.

Instrument :
FID_G
ClientSampleId :
P001-CF11-01



#12 1-chlorooctadecane (SURR)

R.T.: 13.399 min
Delta R.T.: -0.023 min
Response: 5813759
Conc: 47.35 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG110424AL\
Data File : FG014641.D
Signal(s) : FID1A.ch
Acq On : 04 Nov 2024 14:04
Sample : P4620-12
Misc :
ALS Vial : 16 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 102124.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	5.280	5.232	5.313	BB	3862	48253	0.83%	0.795%
2	6.747	6.719	6.772	BB	6233	64141	1.10%	1.057%
3	8.579	8.543	8.608	BB	4945	53502	0.92%	0.882%
4	11.567	11.540	11.600	BB	3488	43379	0.75%	0.715%
5	11.637	11.603	11.667	BB	3479	43750	0.75%	0.721%
6	13.399	13.352	13.439	BB	499740	5813759	100.00%	95.829%
			Sum of corrected areas:			6066784		

Aliphatic EPH 102124.M Tue Nov 05 01:18:32 2024

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

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	10/29/24
Project:	RFP 872	Date Received:	10/29/24
Client Sample ID:	P001-CF12-01	SDG No.:	P4620
Lab Sample ID:	P4620-13	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	95.4
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
11/03/24 08:45	11/05/24 9:41	PB164618

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	0.40	U	1	0.40	1.05	mg/kg	FC067627.D
Aliphatic C12-C16	Aliphatic C12-C16	0.25	U	1	0.25	0.70	mg/kg	FC067627.D
Aliphatic C16-C21	Aliphatic C16-C21	0.31	U	1	0.31	1.05	mg/kg	FC067627.D
Aliphatic C21-C28	Aliphatic C21-C28	0.84	U	1	0.84	1.40	mg/kg	FC067627.D
Aliphatic C28-C40	Aliphatic C28-C40	1.89	U	1	1.89	2.10	mg/kg	FC067627.D
Aromatic C10-C12	Aromatic C10-C12	0.31	U	1	0.31	0.70	mg/kg	FD048647.D
Aromatic C12-C16	Aromatic C12-C16	0.36	U	1	0.36	1.05	mg/kg	FD048647.D
Aromatic C16-C21	Aromatic C16-C21	1.01	U	1	1.01	1.75	mg/kg	FD048647.D
Aromatic C21-C36	Aromatic C21-C36	2.10	U	1	2.10	2.79	mg/kg	FD048647.D
Total AliphaticEPH	Total AliphaticEPH	3.69	U		3.69	6.30	mg/kg	
Total AromaticEPH	Total AromaticEPH	3.78	U		3.78	6.29	mg/kg	
Total EPH	Total EPH	7.47	U		7.47	12.6	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:	Weston Solutions, Inc.	Date Collected:	10/29/24
Project:	RFP 872	Date Received:	10/29/24
Client Sample ID:	P001-CF12-01	SDG No.:	P4620
Lab Sample ID:	P4620-13	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	95.4
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
FC067627.D	1	11/03/24	11/05/24	PB164618

CAS Number	Parameter		Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
Aliphatic C9-C12	Aliphatic C9-C12		0.40	U	0.40	1.05	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16		0.25	U	0.25	0.70	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21		0.31	U	0.31	1.05	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28		0.84	U	0.84	1.40	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40		1.89	U	1.89	2.10	mg/kg
SURROGATES							
3383-33-2	1-chlorooctadecane (SURR)		38.1		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:	P4620-13	Acq On:	05 Nov 2024 09:41
Client Sample ID:	P001-CF12-01	Operator:	YP/AJ
Data file:	FC067627.D	Misc:	
Instrument:	FID_C	ALS Vial:	24
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.171	6.449	56324	0.416	300	ug/ml
Aliphatic C12-C16	6.450	9.838	51376	0.39	200	ug/ml
Aliphatic C16-C21	9.839	13.196	0	0	300	ug/ml
Aliphatic C21-C28	13.197	16.847	158432	1.319	400	ug/ml
Aliphatic C28-C40	16.848	21.685	419390	4.149	600	ug/ml
Aliphatic EPH	3.171	21.685	685522	6.274		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	12.929	12.929	4119174	38.14		ug/ml
Aliphatic C9-C28	3.171	16.847	266132	2.125	1200	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC110424AL\
Data File : FC067627.D
Signal(s) : FID1A.ch
Acq On : 05 Nov 2024 09:41
Operator : YP/AJ
Sample : P4620-13
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
P001-CF12-01

Integration File: autoint1.e
Quant Time: Nov 05 15:47:16 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...	12.929	4119174	38.145 ug/ml
Spiked Amount 50.000		Recovery = 76.29%	
Target Compounds			

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

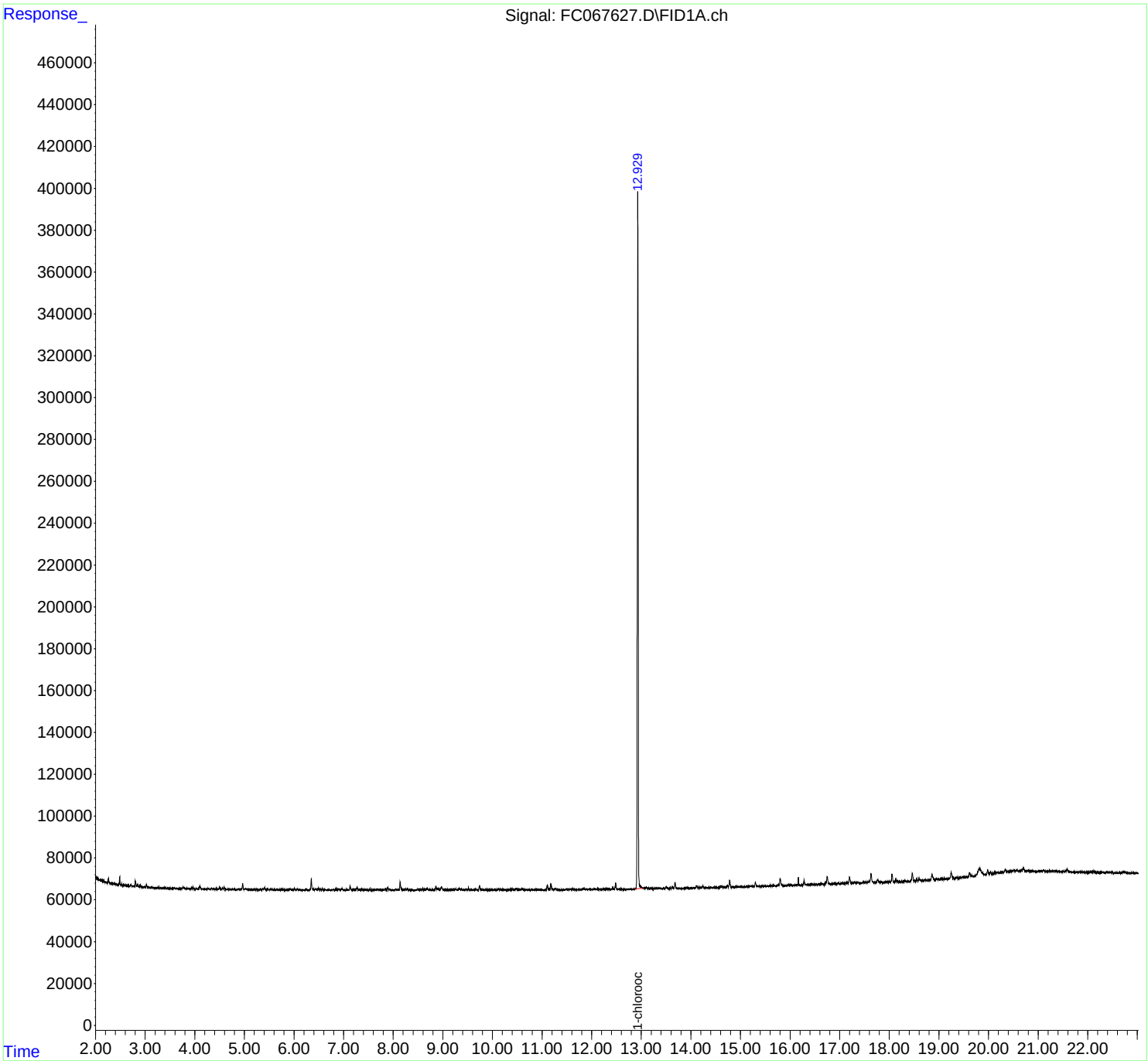
Quantitation Report (QT Reviewed)

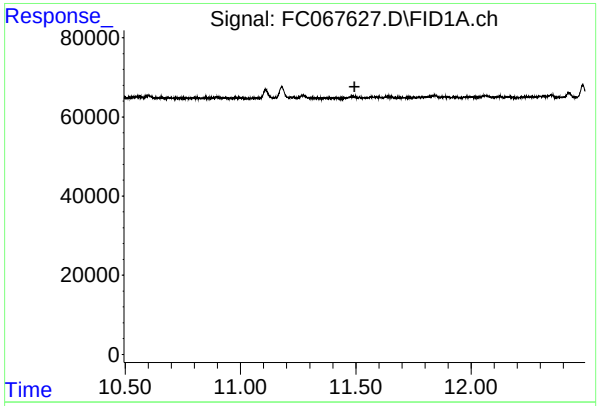
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC110424AL\
Data File : FC067627.D
Signal(s) : FID1A.ch
Acq On : 05 Nov 2024 09:41
Operator : YP/AJ
Sample : P4620-13
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
P001-CF12-01

Integration File: autoint1.e
Quant Time: Nov 05 15:47:16 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

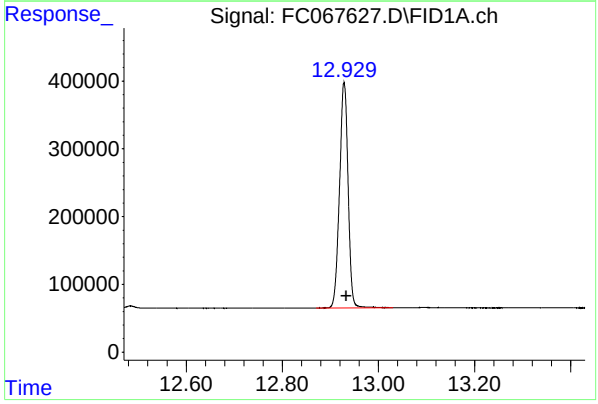




#9 ortho-Terphenyl (SURR)

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

Instrument :
FID_C
ClientSampleId :
P001-CF12-01



#12 1-chlorooctadecane (SURR)

R.T.: 12.929 min
Delta R.T.: -0.004 min
Response: 4119174
Conc: 38.14 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC110424AL\
Data File : FC067627.D
Signal(s) : FID1A.ch
Acq On : 05 Nov 2024 09:41
Sample : P4620-13
Misc :
ALS Vial : 24 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	6.349	6.299	6.390	BB	5304	56324	1.37%	1.172%
2	8.141	8.012	8.189	BB	3707	51376	1.25%	1.069%
3	12.929	12.870	13.030	BB	331938	4119174	100.00%	85.732%
4	14.781	14.757	14.820	VB	3310	45458	1.10%	0.946%
5	15.800	15.722	15.849	BB	3382	56059	1.36%	1.167%
6	16.748	16.667	16.782	BB	3486	56915	1.38%	1.185%
7	17.632	17.550	17.679	BB	4233	68836	1.67%	1.433%
8	18.055	18.015	18.092	BB	3584	48929	1.19%	1.018%
9	18.463	18.392	18.522	BB	4061	69859	1.70%	1.454%
10	19.247	19.198	19.310	BB	3299	67168	1.63%	1.398%
11	19.814	19.684	19.919	BB	3320	164598	4.00%	3.426%
			Sum of corrected areas:			4804696		

Aliphatic EPH 102324.M Tue Nov 05 16:16:07 2024

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

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	10/29/24
Project:	RFP 872	Date Received:	10/29/24
Client Sample ID:	P001-CF12-01	SDG No.:	P4620
Lab Sample ID:	P4620-13	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	95.4
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
FD048647.D	1	11/03/24	11/04/24	PB164618

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	0.31	U	0.31	0.70	mg/kg
Aromatic C12-C16	Aromatic C12-C16	0.36	U	0.36	1.05	mg/kg
Aromatic C16-C21	Aromatic C16-C21	1.01	U	1.01	1.75	mg/kg
Aromatic C21-C36	Aromatic C21-C36	2.10	U	2.10	2.79	mg/kg
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	40.9		40 - 140	82%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	37.9		40 - 140	76%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	32.2		40 - 140	64%	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:	P4620-13	Acq On:	04 Nov 2024 20:16
Client Sample ID:	P001-CF12-01	Operator:	YP/AJ
Data file:	FD048647.D	Misc:	
Instrument:	FID_D	ALS Vial:	62
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic EPH	4.093	18.080	3200884	19.766		ug/ml
2-Bromonaphthalene (SURR)	7.370	7.370	6213998	40.94		ug/ml
2-Flurobiphenyl (SURR)	8.220	8.220	3717112	37.86		ug/ml
ortho-Terphenyl (SURR)	11.255	11.255	5487539	32.22		ug/ml
Aromatic C10-C12	4.093	5.811	222255	1.261	200	ug/ml
Aromatic C12-C16	5.812	8.416	324218	1.829	300	ug/ml
Aromatic C16-C21	8.417	12.676	1589004	9.699	500	ug/ml
Aromatic C21-C36	12.677	18.080	1065407	6.977	800	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD110424AR\
Data File : FD048647.D
Signal(s) : FID2B.ch
Acq On : 04 Nov 2024 20:16
Operator : YP/AJ
Sample : P4620-13
Misc :
ALS Vial : 62 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
P001-CF12-01

Integration File: autoint1.e
Quant Time: Nov 05 02:08:21 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	6213998	40.941 ug/ml
Spiked Amount 50.000		Recovery =	81.88%
6) S 2-Flurobiphenyl (SURR)	8.220	3717112	37.856 ug/ml
Spiked Amount 50.000 Range 0 - 131		Recovery =	75.71%
11) S ortho-Terphenyl (SURR)	11.255	5487539	32.215 ug/ml
Spiked Amount 50.000		Recovery =	64.43%
Target Compounds			

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

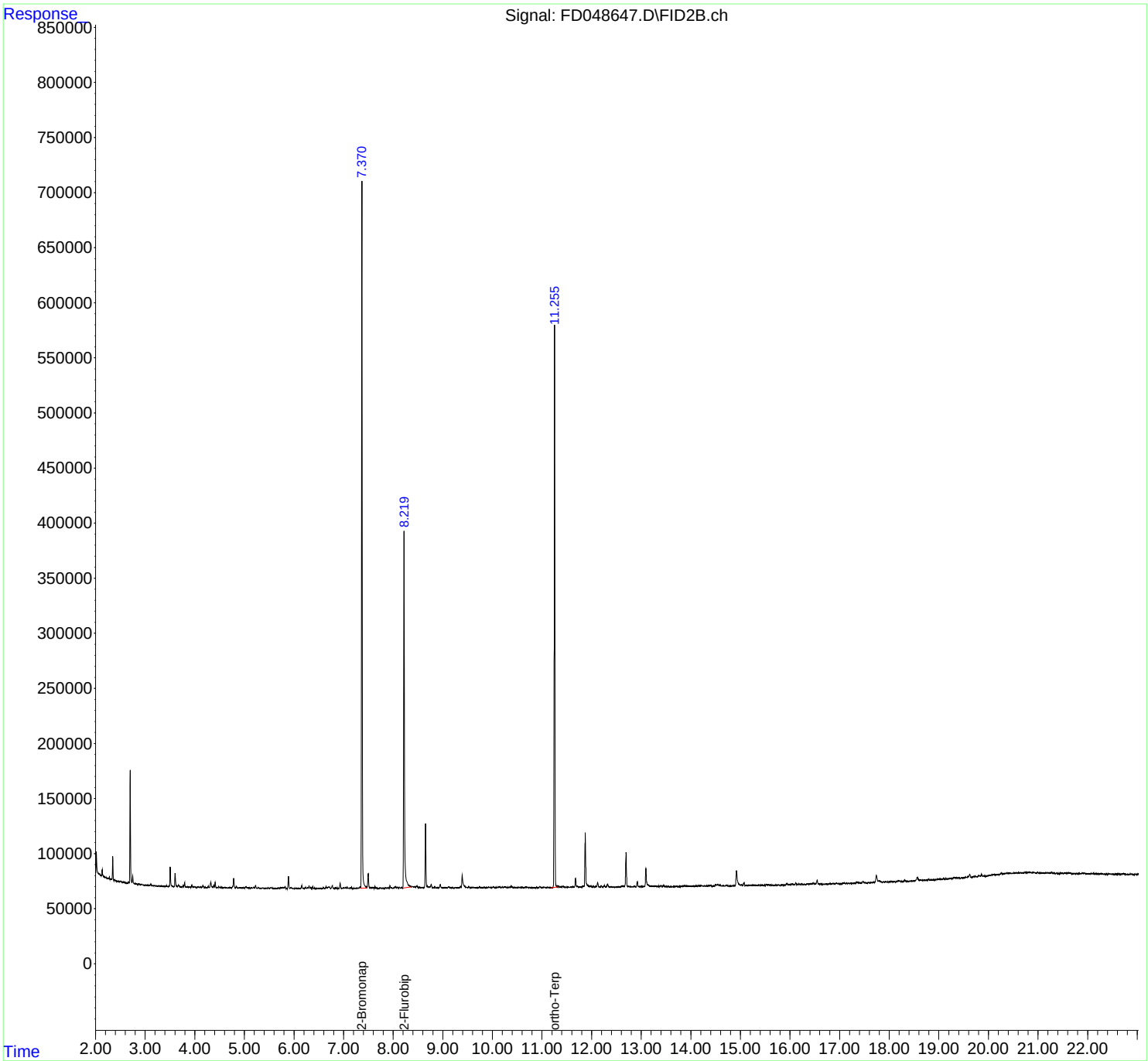
Quantitation Report (QT Reviewed)

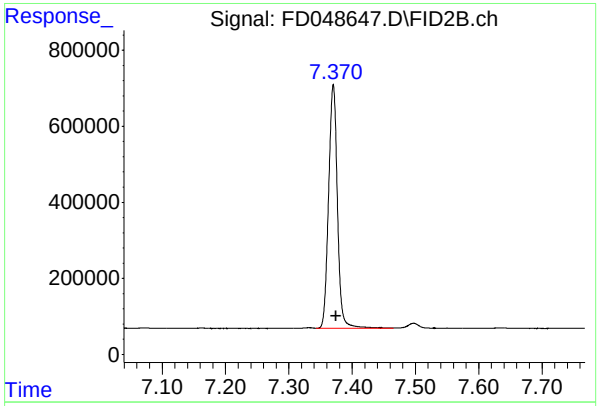
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD110424AR\
Data File : FD048647.D
Signal(s) : FID2B.ch
Acq On : 04 Nov 2024 20:16
Operator : YP/AJ
Sample : P4620-13
Misc :
ALS Vial : 62 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
P001-CF12-01

Integration File: autoint1.e
Quant Time: Nov 05 02:08:21 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

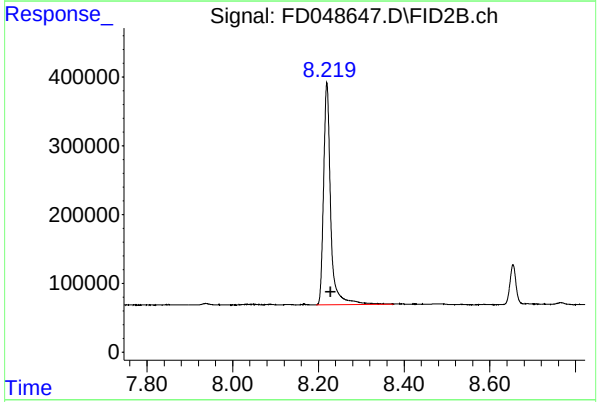




#4 2-Bromonaphthalene (SURR)

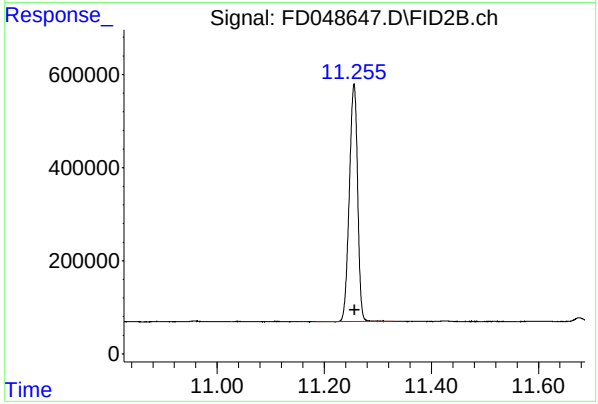
R.T.: 7.370 min
Delta R.T.: -0.004 min
Response: 6213998
Conc: 40.94 ug/ml

Instrument :
FID_D
ClientSampleId :
P001-CF12-01



#6 2-Flurobiphenyl (SURR)

R.T.: 8.220 min
Delta R.T.: -0.008 min
Response: 3717112
Conc: 37.86 ug/ml



#11 ortho-Terphenyl (SURR)

R.T.: 11.255 min
Delta R.T.: -0.002 min
Response: 5487539
Conc: 32.22 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD110424AR\
Data File : FD048647.D
Signal(s) : FID2B.ch
Acq On : 04 Nov 2024 20:16
Sample : P4620-13
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	3.505	3.465	3.579	PV	17964	181248	2.92%	0.955%
2	3.604	3.579	3.658	PV	11981	128682	2.07%	0.678%
3	3.796	3.780	3.858	VB	4055	39607	0.64%	0.209%
4	4.324	4.296	4.351	VV	4505	64149	1.03%	0.338%
5	4.412	4.396	4.445	VV	4978	46248	0.74%	0.244%
6	4.785	4.741	4.815	BV	8840	111858	1.80%	0.590%
7	5.890	5.851	5.916	BV	11138	112945	1.82%	0.595%
8	6.932	6.905	6.974	BV	4865	52548	0.85%	0.277%
9	7.370	7.343	7.465	VV	641392	6213998	100.00%	32.759%
10	7.497	7.465	7.538	VB	13138	158725	2.55%	0.837%
11	8.220	8.194	8.374	BV	321781	3717112	59.82%	19.596%
12	8.654	8.563	8.745	PV	58070	590563	9.50%	3.113%
13	9.393	9.372	9.498	VB	11243	199307	3.21%	1.051%
14	11.255	11.185	11.328	BV	506783	5487539	88.31%	28.929%
15	11.676	11.651	11.699	BV	8178	95811	1.54%	0.505%
16	11.874	11.847	12.008	VV	49365	635048	10.22%	3.348%
17	12.124	12.008	12.149	VV	4132	68275	1.10%	0.360%
18	12.695	12.640	12.778	VB	31499	392547	6.32%	2.069%
19	12.920	12.781	12.965	BV	4839	71303	1.15%	0.376%
20	13.095	12.965	13.178	PV	16422	243377	3.92%	1.283%
21	14.920	14.638	15.011	BB	13475	200846	3.23%	1.059%
22	16.546	16.521	16.608	VB	3848	57710	0.93%	0.304%
23	17.740	17.701	17.784	BV	5838	99624	1.60%	0.525%
			Sum of corrected areas:			18969069		

Aromatic EPH 102324.M Tue Nov 05 03:30:16 2024

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

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	10/29/24
Project:	RFP 872	Date Received:	10/29/24
Client Sample ID:	P001-CF12-01	SDG No.:	P4620
Lab Sample ID:	P4620-14	Matrix:	Water
Analytical Method:	NJEPH	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :	SW3510		

Prep Date :	Date Analyzed :	Prep Batch ID
11/03/24 08:20	11/04/24 14:32	PB164637

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	5.76	U	1	5.76	30.0	ug/l	FG014642.D
Aliphatic C12-C16	Aliphatic C12-C16	32.2		1	3.61	20.0	ug/l	FG014642.D
Aliphatic C16-C21	Aliphatic C16-C21	5.14	U	1	5.14	30.0	ug/l	FG014642.D
Aliphatic C21-C28	Aliphatic C21-C28	8.97	U	1	8.97	40.0	ug/l	FG014642.D
Aliphatic C28-C40	Aliphatic C28-C40	17.0	U	1	17.0	60.0	ug/l	FG014642.D
Aromatic C10-C12	Aromatic C10-C12	3.32	U	1	3.32	20.0	ug/l	FF014912.D
Aromatic C12-C16	Aromatic C12-C16	3.69	U	1	3.69	30.0	ug/l	FF014912.D
Aromatic C16-C21	Aromatic C16-C21	12.7	U	1	12.7	50.0	ug/l	FF014912.D
Aromatic C21-C36	Aromatic C21-C36	25.2	U	1	25.2	80.0	ug/l	FF014912.D
Total AliphaticEPH	Total AliphaticEPH	40.5	U		40.5	180	ug/l	
Total AromaticEPH	Total AromaticEPH	44.9	U		44.9	180	ug/l	
Total EPH	Total EPH	85.4	U		85.4	360	ug/l	

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

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

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

Report of Analysis

Client:	Weston Solutions, Inc.		Date Collected:	10/29/24	
Project:	RFP 872		Date Received:	10/29/24	
Client Sample ID:	P001-CF12-01		SDG No.:	P4620	
Lab Sample ID:	P4620-14		Matrix:	Water	
Analytical Method:	NJEPH		% Solid:	0	
Sample Wt/Vol:	1000	Units: mL	Final Vol:	2000	uL
Soil Aliquot Vol:		uL	Test:	EPH	
Prep Method :	SW3510				

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FF014912.D	1	11/03/24	11/04/24	PB164637

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	3.32	U	3.32	20.0	ug/l
Aromatic C12-C16	Aromatic C12-C16	3.69	U	3.69	30.0	ug/l
Aromatic C16-C21	Aromatic C16-C21	12.7	U	12.7	50.0	ug/l
Aromatic C21-C36	Aromatic C21-C36	25.2	U	25.2	80.0	ug/l
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	47.6		40 - 140	95%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	32.4		40 - 140	65%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	48.7		40 - 140	97%	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:	P4620-14	Acq On:	04 Nov 2024 14:32
Client Sample ID:	P001-CF12-01	Operator:	YP\AJ
Data file:	FF014912.D	Misc:	
Instrument:	FID_F	ALS Vial:	67
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.508	6.372	203496	1.304	200	ug/ml
Aromatic C12-C16	6.373	9.064	117944	0.739	300	ug/ml
Aromatic C16-C21	9.065	13.375	2191194	14.102	500	ug/ml
Aromatic C21-C36	13.376	18.817	460169	3.1	800	ug/ml
Aromatic EPH	4.508	18.817	2972803	19.244		ug/ml
ortho-Terphenyl (SURR)	11.930	11.930	7791705	48.71		ug/ml
2-Bromonaphthalene (SURR)	7.993	7.993	6636989	47.6		ug/ml
2-Flurobiphenyl (SURR)	8.865	8.865	3050978	32.35		ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF110424AR\
Data File : FF014912.D
Signal(s) : FID2B.ch
Acq On : 04 Nov 2024 14:32
Operator : YP\AJ
Sample : P4620-14
Misc :
ALS Vial : 67 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
P001-CF12-01

Integration File: autoint1.e
Quant Time: Nov 05 01:26:26 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 102124.M
Quant Title : GC Extractables
QLast Update : Tue Oct 22 04:14:53 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...	7.993	6636989	47.596 ug/ml
Spiked Amount 50.000		Recovery =	95.19%
6) S 2-Flurobiphenyl (SURR)	8.865	3050978	32.351 ug/ml
Spiked Amount 50.000 Range	0 - 131	Recovery =	64.70%
11) S ortho-Terphenyl (SURR)	11.930	7791705	48.705 ug/ml
Spiked Amount 50.000		Recovery =	97.41%
Target Compounds			

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

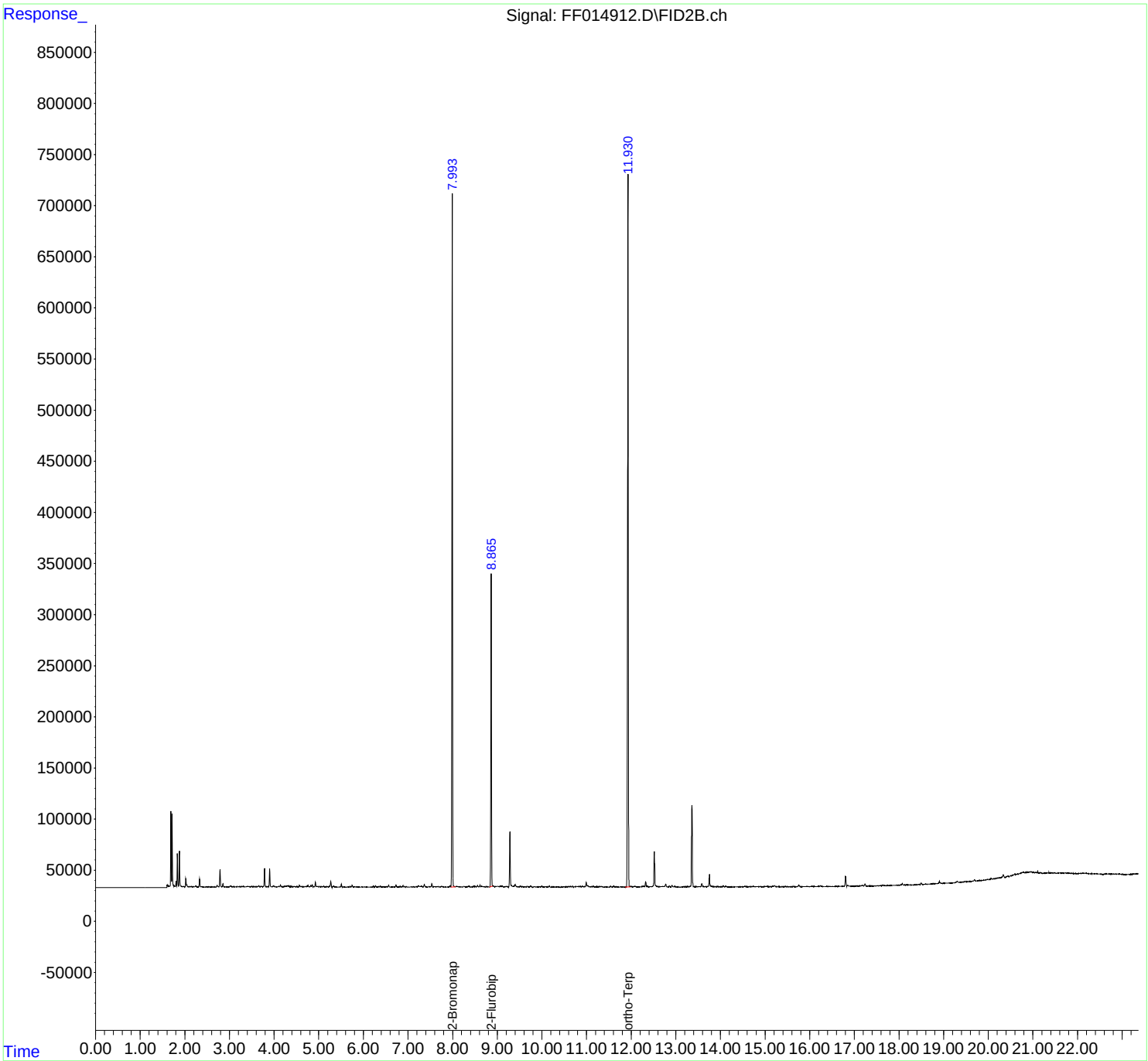
Quantitation Report (QT Reviewed)

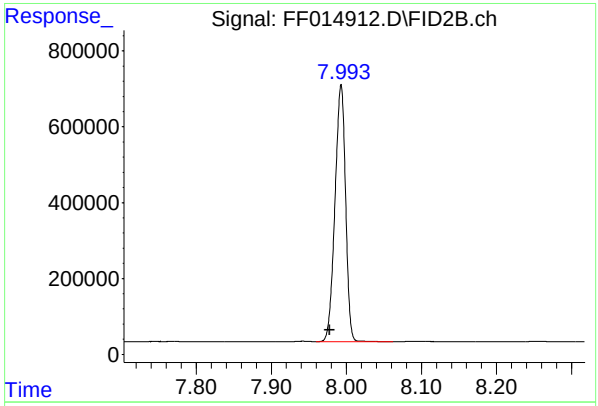
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF110424AR\
Data File : FF014912.D
Signal(s) : FID2B.ch
Acq On : 04 Nov 2024 14:32
Operator : YP\AJ
Sample : P4620-14
Misc :
ALS Vial : 67 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
P001-CF12-01

Integration File: autoint1.e
Quant Time: Nov 05 01:26:26 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 102124.M
Quant Title : GC Extractables
QLast Update : Tue Oct 22 04:14:53 2024
Response via : Initial Calibration
Integrator: ChemStation

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

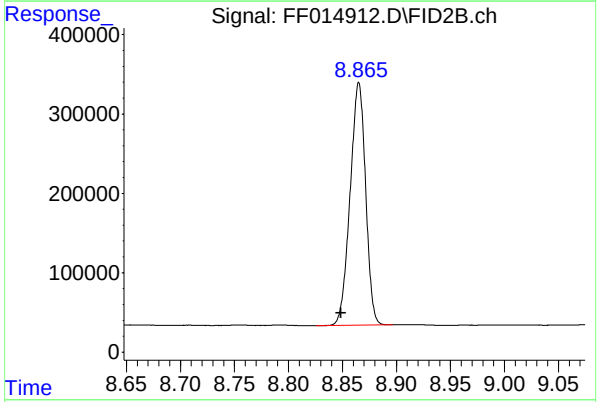




#4 2-Bromonaphthalene (SURR)

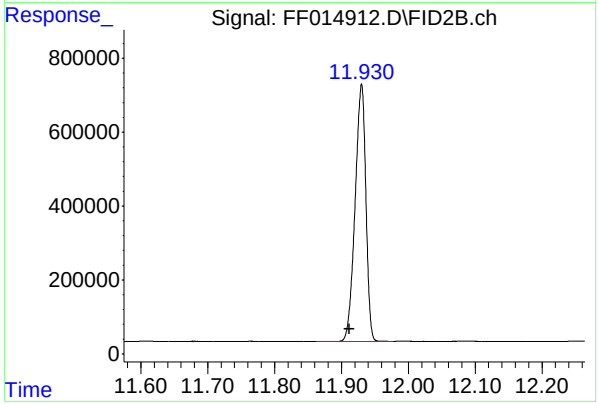
R.T.: 7.993 min
Delta R.T.: 0.015 min
Response: 6636989
Conc: 47.60 ug/ml

Instrument :
FID_F
ClientSampleId :
P001-CF12-01



#6 2-Flurobiphenyl (SURR)

R.T.: 8.865 min
Delta R.T.: 0.016 min
Response: 3050978
Conc: 32.35 ug/ml



#11 ortho-Terphenyl (SURR)

R.T.: 11.930 min
Delta R.T.: 0.018 min
Response: 7791705
Conc: 48.71 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF110424AR\
Data File : FF014912.D
Signal(s) : FID2B.ch
Acq On : 04 Nov 2024 14:32
Sample : P4620-14
Misc :
ALS Vial : 67 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 102124.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	4.854	4.836	4.902	VB	2325	25481	0.33%	0.125%
2	4.926	4.907	4.957	BV	4594	46593	0.60%	0.228%
3	5.271	5.215	5.304	BV	5517	76109	0.98%	0.372%
4	5.508	5.437	5.547	BV	3167	34752	0.45%	0.170%
5	5.749	5.724	5.790	VV	1883	20561	0.26%	0.101%
6	6.567	6.544	6.597	VB	1880	21789	0.28%	0.107%
7	6.732	6.650	6.760	BB	2202	23645	0.30%	0.116%
8	7.368	7.339	7.417	PB	2620	36105	0.46%	0.177%
9	7.535	7.515	7.564	VV	3394	36405	0.47%	0.178%
10	7.993	7.960	8.062	PV	675845	6636989	85.18%	32.451%
11	8.865	8.825	8.897	BV	306348	3050978	39.16%	14.917%
12	9.285	9.250	9.350	BV	53859	586219	7.52%	2.866%
13	9.402	9.350	9.455	VV	2493	61969	0.80%	0.303%
14	10.995	10.970	11.017	PV	3950	39794	0.51%	0.195%
15	11.930	11.862	11.977	BV	700624	7791705	100.00%	38.097%
16	12.327	12.292	12.350	VV	5156	61613	0.79%	0.301%
17	12.520	12.457	12.620	BB	34590	421339	5.41%	2.060%
18	12.775	12.734	12.824	BB	2484	38236	0.49%	0.187%
19	13.361	13.297	13.390	PB	79532	982024	12.60%	4.801%
20	13.581	13.479	13.625	BV	3017	48764	0.63%	0.238%
21	13.752	13.625	13.847	VB	12325	171902	2.21%	0.840%
22	15.755	15.689	15.807	BB	1816	26464	0.34%	0.129%
23	16.802	16.749	16.830	BV	9735	124551	1.60%	0.609%
24	17.236	17.212	17.277	VB	2132	29423	0.38%	0.144%
25	18.074	17.992	18.112	BB	1596	27410	0.35%	0.134%
26	18.496	18.294	18.534	BB	1605	31655	0.41%	0.155%
			Sum of corrected areas:			20452474		

Aromatic EPH 102124.M Tue Nov 05 01:57:50 2024

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

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	10/29/24
Project:	RFP 872	Date Received:	10/29/24
Client Sample ID:	P001-CF12-01	SDG No.:	P4620
Lab Sample ID:	P4620-14	Matrix:	Water
Analytical Method:	NJEPH	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :	SW3510		

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FG014642.D	1	11/03/24	11/04/24	PB164637

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C12	Aliphatic C9-C12	5.76	U	5.76	30.0	ug/l
Aliphatic C12-C16	Aliphatic C12-C16	32.2		3.61	20.0	ug/l
Aliphatic C16-C21	Aliphatic C16-C21	5.14	U	5.14	30.0	ug/l
Aliphatic C21-C28	Aliphatic C21-C28	8.97	U	8.97	40.0	ug/l
Aliphatic C28-C40	Aliphatic C28-C40	17.0	U	17.0	60.0	ug/l
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	61.8		40 - 140	124%	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:	P4620-14	Acq On:	04 Nov 2024 14:32
Client Sample ID:	P001-CF12-01	Operator:	YP\AJ
Data file:	FG014642.D	Misc:	
Instrument:	FID_G	ALS Vial:	17
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.228	6.849	137085	1.044	300	ug/ml
Aliphatic C12-C16	6.850	10.292	2183981	16.08	200	ug/ml
Aliphatic C16-C21	10.293	13.665	50369	0.357	300	ug/ml
Aliphatic C21-C28	13.666	17.329	0	0	400	ug/ml
Aliphatic C28-C40	17.330	22.266	0	0	600	ug/ml
Aliphatic EPH	3.228	22.266	2371435	17.48		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	13.400	13.400	7583275	61.76		ug/ml
Aliphatic C9-C28	3.228	17.329	2371435	17.481	1200	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG110424AL\
Data File : FG014642.D
Signal(s) : FID1A.ch
Acq On : 04 Nov 2024 14:32
Operator : YP\AJ
Sample : P4620-14
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
P001-CF12-01

Integration File: autoint1.e
Quant Time: Nov 05 00:37:05 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 102124.M
Quant Title : GC Extractables
QLast Update : Tue Oct 22 06:49:54 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...	13.400	7583275	61.758 ug/ml
Spiked Amount 50.000		Recovery = 123.52%	
Target Compounds			

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

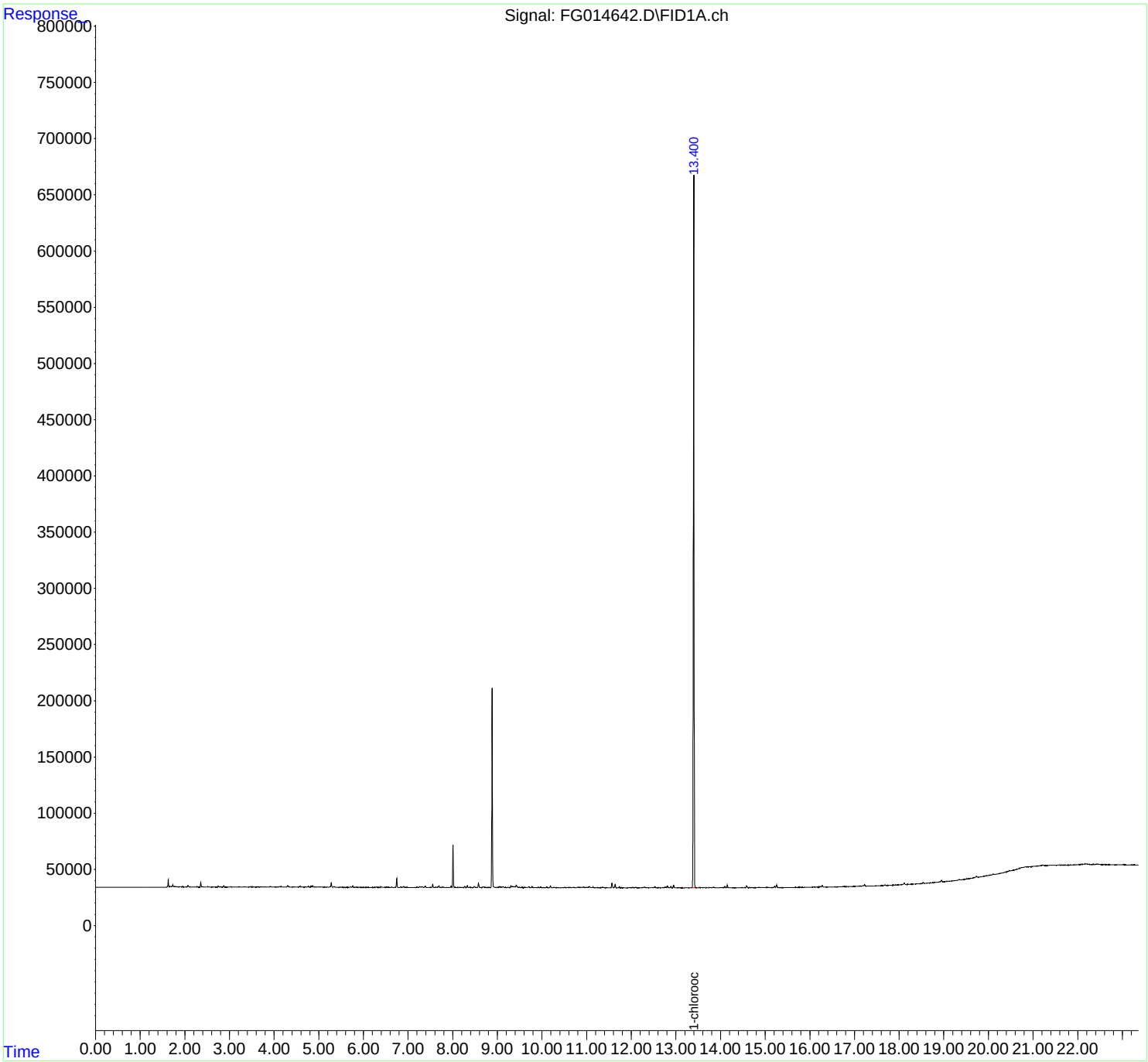
Quantitation Report (QT Reviewed)

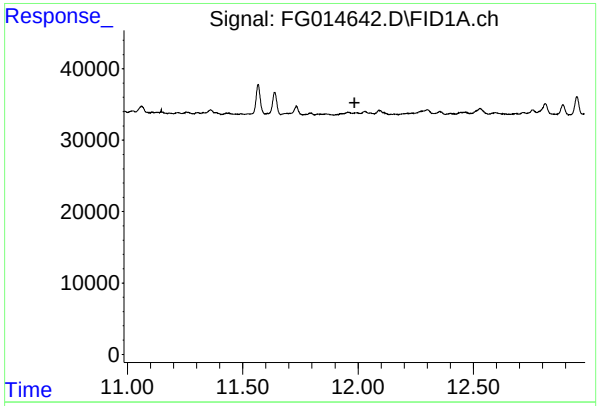
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG110424AL\
Data File : FG014642.D
Signal(s) : FID1A.ch
Acq On : 04 Nov 2024 14:32
Operator : YP\AJ
Sample : P4620-14
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
P001-CF12-01

Integration File: autoint1.e
Quant Time: Nov 05 00:37:05 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 102124.M
Quant Title : GC Extractables
QLast Update : Tue Oct 22 06:49:54 2024
Response via : Initial Calibration
Integrator: ChemStation

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

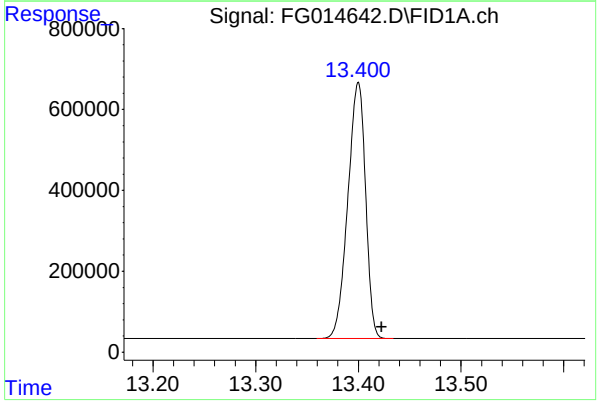




#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.984 min
Response: 0
Conc: N.D.

Instrument :
FID_G
ClientSampleId :
P001-CF12-01



#12 1-chlorooctadecane (SURR)

R.T.: 13.400 min
Delta R.T.: -0.023 min
Response: 7583275
Conc: 61.76 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG110424AL\
Data File : FG014642.D
Signal(s) : FID1A.ch
Acq On : 04 Nov 2024 14:32
Sample : P4620-14
Misc :
ALS Vial : 17 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 102124.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	5.281	5.237	5.311	BB	4049	52671	0.69%	0.529%
2	6.747	6.723	6.776	BB	8221	84414	1.11%	0.848%
3	8.009	7.987	8.037	BB	37752	368171	4.86%	3.698%
4	8.580	8.554	8.608	BB	3953	42712	0.56%	0.429%
5	8.885	8.846	8.925	BB	177336	1773098	23.38%	17.812%
6	11.567	11.534	11.594	BB	4147	50369	0.66%	0.506%
7	13.400	13.359	13.434	BB	633934	7583275	100.00%	76.178%
			Sum of corrected areas:			9954710		

Aliphatic EPH 102124.M Tue Nov 05 01:18:51 2024

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

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	10/29/24
Project:	RFP 872	Date Received:	10/29/24
Client Sample ID:	P001-CF13-01	SDG No.:	P4620
Lab Sample ID:	P4620-15	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	95
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
11/03/24 08:45	11/04/24 20:52	PB164618

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	0.40	U	1	0.40	1.05	mg/kg	FC067611.D
Aliphatic C12-C16	Aliphatic C12-C16	0.25	U	1	0.25	0.70	mg/kg	FC067611.D
Aliphatic C16-C21	Aliphatic C16-C21	0.32	U	1	0.32	1.05	mg/kg	FC067611.D
Aliphatic C21-C28	Aliphatic C21-C28	0.84	U	1	0.84	1.40	mg/kg	FC067611.D
Aliphatic C28-C40	Aliphatic C28-C40	1.89	U	1	1.89	2.10	mg/kg	FC067611.D
Aromatic C10-C12	Aromatic C10-C12	0.32	U	1	0.32	0.70	mg/kg	FD048648.D
Aromatic C12-C16	Aromatic C12-C16	0.36	U	1	0.36	1.05	mg/kg	FD048648.D
Aromatic C16-C21	Aromatic C16-C21	1.01	U	1	1.01	1.75	mg/kg	FD048648.D
Aromatic C21-C36	Aromatic C21-C36	2.10	U	1	2.10	2.80	mg/kg	FD048648.D
Total AliphaticEPH	Total AliphaticEPH	3.70	U		3.70	6.30	mg/kg	
Total AromaticEPH	Total AromaticEPH	3.78	U		3.78	6.30	mg/kg	
Total EPH	Total EPH	7.48	U		7.48	12.6	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:	Weston Solutions, Inc.	Date Collected:	10/29/24
Project:	RFP 872	Date Received:	10/29/24
Client Sample ID:	P001-CF13-01	SDG No.:	P4620
Lab Sample ID:	P4620-15	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	95
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
FC067611.D	1	11/03/24	11/04/24	PB164618

CAS Number	Parameter		Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
Aliphatic C9-C12	Aliphatic C9-C12		0.40	U	0.40	1.05	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16		0.25	U	0.25	0.70	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21		0.32	U	0.32	1.05	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28		0.84	U	0.84	1.40	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40		1.89	U	1.89	2.10	mg/kg
SURROGATES							
3383-33-2	1-chlorooctadecane (SURR)		37.4		40 - 140	75%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)		0.00		40 - 140	0%	SPK: 50

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Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	P4620-15	Acq On:	04 Nov 2024 20:52
Client Sample ID:	P001-CF13-01	Operator:	YP/AJ
Data file:	FC067611.D	Misc:	
Instrument:	FID_C	ALS Vial:	13
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.171	6.449	63152	0.466	300	ug/ml
Aliphatic C12-C16	6.450	9.838	0	0	200	ug/ml
Aliphatic C16-C21	9.839	13.196	0	0	300	ug/ml
Aliphatic C21-C28	13.197	16.847	0	0	400	ug/ml
Aliphatic C28-C40	16.848	21.685	0	0	600	ug/ml
Aliphatic EPH	3.171	21.685	63152	0.466		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	12.929	12.929	4037218	37.39		ug/ml
Aliphatic C9-C28	3.171	16.847	63152	0.466	1200	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC110424AL\
Data File : FC067611.D
Signal(s) : FID1A.ch
Acq On : 04 Nov 2024 20:52
Operator : YP/AJ
Sample : P4620-15
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
P001-CF13-01

Integration File: autoint1.e
Quant Time: Nov 05 03:45:06 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...	12.929	4037218	37.386 ug/ml
Spiked Amount 50.000		Recovery = 74.77%	
Target Compounds			

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

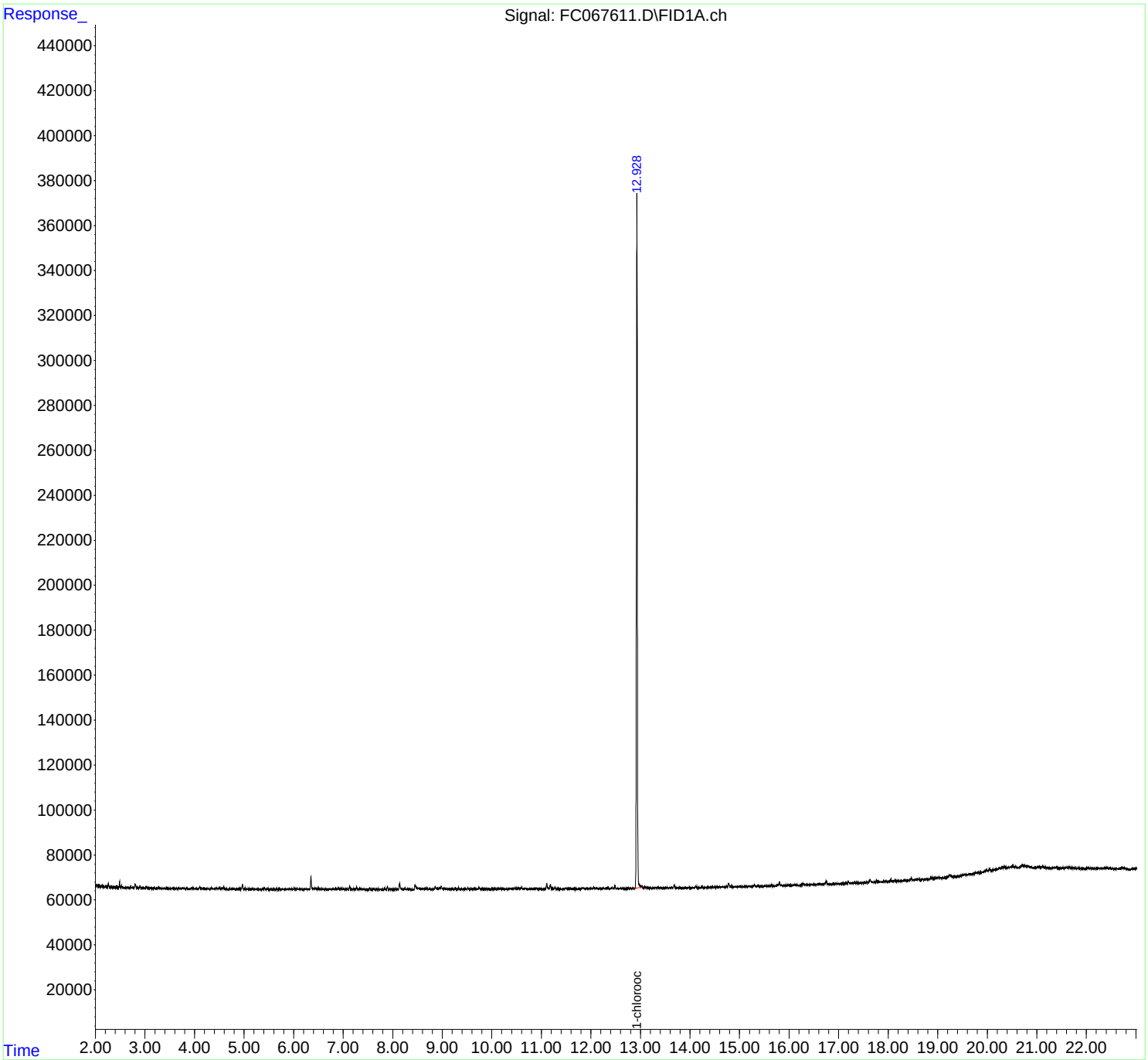
Quantitation Report (QT Reviewed)

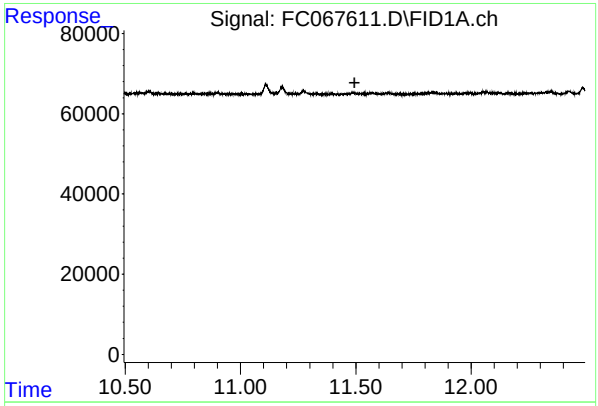
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC110424AL\
Data File : FC067611.D
Signal(s) : FID1A.ch
Acq On : 04 Nov 2024 20:52
Operator : YP/AJ
Sample : P4620-15
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
P001-CF13-01

Integration File: autoint1.e
Quant Time: Nov 05 03:45:06 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

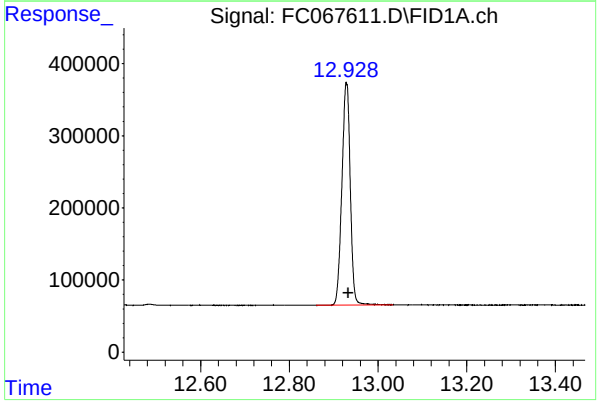




#9 ortho-Terphenyl (SURR)

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

Instrument :
FID_C
ClientSampleId :
P001-CF13-01



#12 1-chlorooctadecane (SURR)

R.T.: 12.929 min
Delta R.T.: -0.004 min
Response: 4037218
Conc: 37.39 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC110424AL\
Data File : FC067611.D
Signal(s) : FID1A.ch
Acq On : 04 Nov 2024 20:52
Sample : P4620-15
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	6.350	6.294	6.397	BB	5538	63152	1.56%	1.540%
2	12.929	12.860	13.034	BB	308651	4037218	100.00%	98.460%
			Sum of corrected areas:			4100370		

Aliphatic EPH 102324.M Tue Nov 05 05:28:26 2024

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Fax : 908 789 8922

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	10/29/24
Project:	RFP 872	Date Received:	10/29/24
Client Sample ID:	P001-CF13-01	SDG No.:	P4620
Lab Sample ID:	P4620-15	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	95
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
FD048648.D	1	11/03/24	11/04/24	PB164618

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	0.32	U	0.32	0.70	mg/kg
Aromatic C12-C16	Aromatic C12-C16	0.36	U	0.36	1.05	mg/kg
Aromatic C16-C21	Aromatic C16-C21	1.01	U	1.01	1.75	mg/kg
Aromatic C21-C36	Aromatic C21-C36	2.10	U	2.10	2.80	mg/kg
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	46.4		40 - 140	93%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	46.0		40 - 140	92%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	26.9		40 - 140	54%	SPK: 50

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Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	P4620-15	Acq On:	04 Nov 2024 20:52
Client Sample ID:	P001-CF13-01	Operator:	YP/AJ
Data file:	FD048648.D	Misc:	
Instrument:	FID_D	ALS Vial:	63
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic EPH	4.093	18.080	2431777	15.217		ug/ml
2-Bromonaphthalene (SURR)	7.371	7.371	7037170	46.36		ug/ml
2-Flurobiphenyl (SURR)	8.220	8.220	4521081	46.04		ug/ml
ortho-Terphenyl (SURR)	11.254	11.254	4579466	26.88		ug/ml
Aromatic C10-C12	4.093	5.811	86002	0.488	200	ug/ml
Aromatic C12-C16	5.812	8.416	273616	1.543	300	ug/ml
Aromatic C16-C21	8.417	12.676	861909	5.261	500	ug/ml
Aromatic C21-C36	12.677	18.080	1210250	7.925	800	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD110424AR\
Data File : FD048648.D
Signal(s) : FID2B.ch
Acq On : 04 Nov 2024 20:52
Operator : YP/AJ
Sample : P4620-15
Misc :
ALS Vial : 63 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
P001-CF13-01

Integration File: autoint1.e
Quant Time: Nov 05 02:08:29 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	7037170	46.365 ug/ml
Spiked Amount 50.000		Recovery =	92.73%
6) S 2-Flurobiphenyl (SURR)	8.220	4521081	46.043 ug/ml
Spiked Amount 50.000 Range 0 - 131		Recovery =	92.09%
11) S ortho-Terphenyl (SURR)	11.254	4579466	26.884 ug/ml
Spiked Amount 50.000		Recovery =	53.77%
Target Compounds			

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

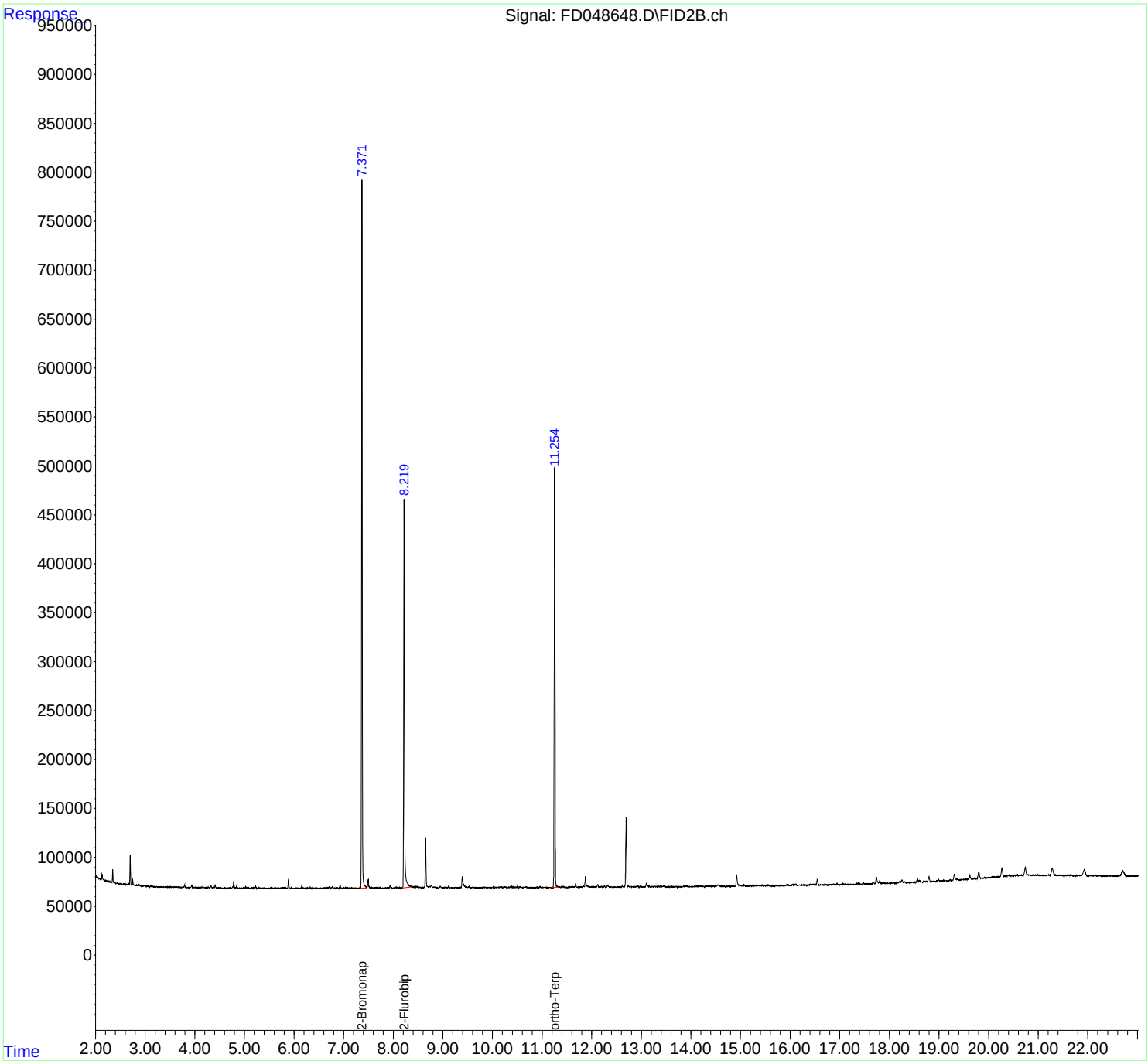
Quantitation Report (QT Reviewed)

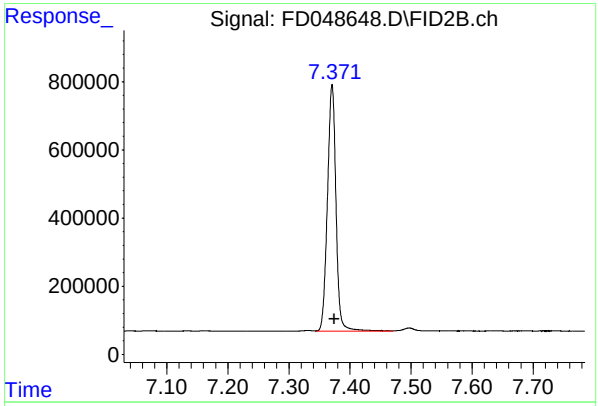
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD110424AR\
Data File : FD048648.D
Signal(s) : FID2B.ch
Acq On : 04 Nov 2024 20:52
Operator : YP/AJ
Sample : P4620-15
Misc :
ALS Vial : 63 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
P001-CF13-01

Integration File: autoint1.e
Quant Time: Nov 05 02:08:29 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

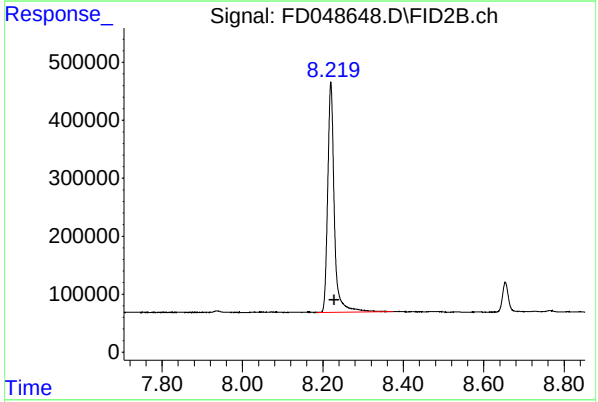




#4 2-Bromonaphthalene (SURR)

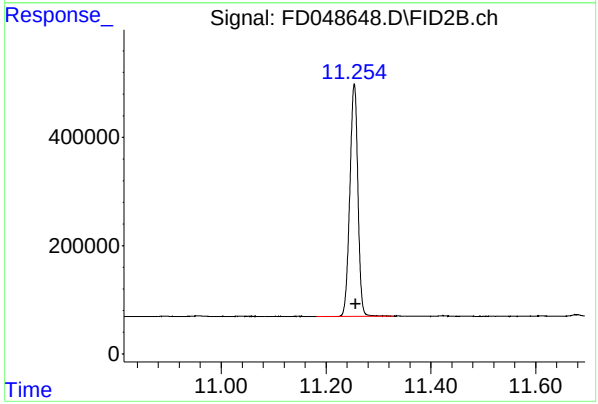
R.T.: 7.371 min
Delta R.T.: -0.004 min
Response: 7037170
Conc: 46.36 ug/ml

Instrument :
FID_D
ClientSampleId :
P001-CF13-01



#6 2-Flurobiphenyl (SURR)

R.T.: 8.220 min
Delta R.T.: -0.008 min
Response: 4521081
Conc: 46.04 ug/ml



#11 ortho-Terphenyl (SURR)

R.T.: 11.254 min
Delta R.T.: -0.003 min
Response: 4579466
Conc: 26.88 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD110424AR\
Data File : FD048648.D
Signal(s) : FID2B.ch
Acq On : 04 Nov 2024 20:52
Sample : P4620-15
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	4.785	4.741	4.818	BV	6394	86002	1.22%	0.463%
2	5.890	5.861	5.915	PV	8028	83284	1.18%	0.449%
3	6.159	6.128	6.211	BB	3390	38255	0.54%	0.206%
4	6.931	6.904	6.964	BV	3854	40580	0.58%	0.219%
5	7.371	7.344	7.470	VV	724363	7037170	100.00%	37.896%
6	7.497	7.470	7.548	VB	8826	111497	1.58%	0.600%
7	8.220	8.183	8.374	PV	394320	4521081	64.25%	24.347%
8	8.654	8.624	8.701	BV	51046	515201	7.32%	2.774%
9	9.393	9.374	9.508	VV	10962	212270	3.02%	1.143%
10	11.254	11.181	11.328	BV	431320	4579466	65.08%	24.661%
11	11.873	11.854	11.938	VB	10043	134438	1.91%	0.724%
12	12.695	12.648	12.768	VB	70725	827306	11.76%	4.455%
13	14.919	14.894	15.018	PV	11526	203915	2.90%	1.098%
14	16.546	16.521	16.624	VB	5736	84289	1.20%	0.454%
15	17.737	17.701	17.781	BV	5996	94740	1.35%	0.510%

Sum of corrected areas: 18569492

Aromatic EPH 102324.M Tue Nov 05 03:31:39 2024

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

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	10/29/24
Project:	RFP 872	Date Received:	10/29/24
Client Sample ID:	P001-CF13-01	SDG No.:	P4620
Lab Sample ID:	P4620-16	Matrix:	Water
Analytical Method:	NJEPH	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :	SW3510		

Prep Date :	Date Analyzed :	Prep Batch ID
11/03/24 08:20	11/04/24 15:00	PB164637

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	5.76	U	1	5.76	30.0	ug/l	FG014643.D
Aliphatic C12-C16	Aliphatic C12-C16	3.61	U	1	3.61	20.0	ug/l	FG014643.D
Aliphatic C16-C21	Aliphatic C16-C21	5.14	U	1	5.14	30.0	ug/l	FG014643.D
Aliphatic C21-C28	Aliphatic C21-C28	8.97	U	1	8.97	40.0	ug/l	FG014643.D
Aliphatic C28-C40	Aliphatic C28-C40	17.0	U	1	17.0	60.0	ug/l	FG014643.D
Aromatic C10-C12	Aromatic C10-C12	3.32	U	1	3.32	20.0	ug/l	FF014913.D
Aromatic C12-C16	Aromatic C12-C16	13.3	J	1	3.69	30.0	ug/l	FF014913.D
Aromatic C16-C21	Aromatic C16-C21	87.8		1	12.7	50.0	ug/l	FF014913.D
Aromatic C21-C36	Aromatic C21-C36	25.2	U	1	25.2	80.0	ug/l	FF014913.D
Total AliphaticEPH	Total AliphaticEPH	40.5	U		40.5	180	ug/l	
Total AromaticEPH	Total AromaticEPH	101	J		44.9	180	ug/l	
Total EPH	Total EPH	101	J		85.4	360	ug/l	

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

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

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

Report of Analysis

Client:	Weston Solutions, Inc.		Date Collected:	10/29/24	
Project:	RFP 872		Date Received:	10/29/24	
Client Sample ID:	P001-CF13-01		SDG No.:	P4620	
Lab Sample ID:	P4620-16		Matrix:	Water	
Analytical Method:	NJEPH		% Solid:	0	
Sample Wt/Vol:	1000	Units: mL	Final Vol:	2000	uL
Soil Aliquot Vol:		uL	Test:	EPH	
Prep Method :	SW3510				

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FF014913.D	1	11/03/24	11/04/24	PB164637

CAS Number	Parameter		Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
Aromatic C10-C12	Aromatic C10-C12		3.32	U	3.32	20.0	ug/l
Aromatic C12-C16	Aromatic C12-C16		13.3	J	3.69	30.0	ug/l
Aromatic C16-C21	Aromatic C16-C21		87.8		12.7	50.0	ug/l
Aromatic C21-C36	Aromatic C21-C36		25.2	U	25.2	80.0	ug/l
SURROGATES							
580-13-2	2-Bromonaphthalene (SURR)		47.8		40 - 140	96%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)		47.3		40 - 140	95%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)		46.4		40 - 140	93%	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:	P4620-16	Acq On:	04 Nov 2024 15:00
Client Sample ID:	P001-CF13-01	Operator:	YP\AJ
Data file:	FF014913.D	Misc:	
Instrument:	FID_F	ALS Vial:	68
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.508	6.372	163192	1.046	200	ug/ml
Aromatic C12-C16	6.373	9.064	1062546	6.657	300	ug/ml
Aromatic C16-C21	9.065	13.375	6823282	43.912	500	ug/ml
Aromatic C21-C36	13.376	18.817	140554	0.947	800	ug/ml
Aromatic EPH	4.508	18.817	8189574	52.561		ug/ml
2-Bromonaphthalene (SURR)	7.993	7.993	6666559	47.81		ug/ml
2-Flurobiphenyl (SURR)	8.867	8.867	4457338	47.26		ug/ml
ortho-Terphenyl (SURR)	11.929	11.929	7419832	46.38		ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF110424AR\
Data File : FF014913.D
Signal(s) : FID2B.ch
Acq On : 04 Nov 2024 15:00
Operator : YP\AJ
Sample : P4620-16
Misc :
ALS Vial : 68 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
P001-CF13-01

Integration File: autoint1.e
Quant Time: Nov 05 01:26:34 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 102124.M
Quant Title : GC Extractables
QLast Update : Tue Oct 22 04:14:53 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...	7.993	6666559	47.808 ug/ml
Spiked Amount 50.000		Recovery = 95.62%	
6) S 2-Flurobiphenyl (SURR)	8.867	4457338	47.263 ug/ml
Spiked Amount 50.000 Range 0 - 131		Recovery = 94.53%	
11) S ortho-Terphenyl (SURR)	11.929	7419832	46.380 ug/ml
Spiked Amount 50.000		Recovery = 92.76%	
Target Compounds			

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

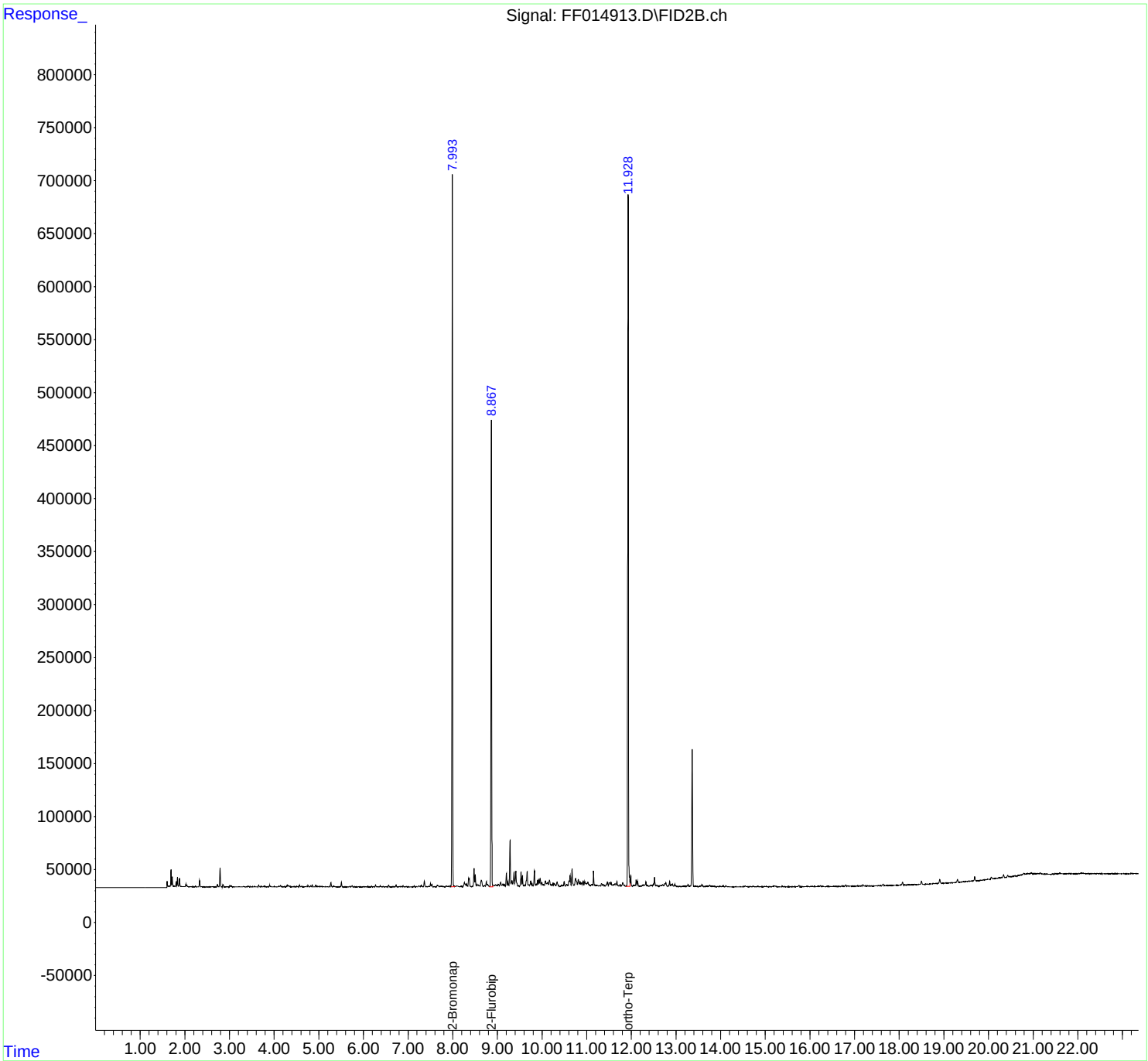
Quantitation Report (QT Reviewed)

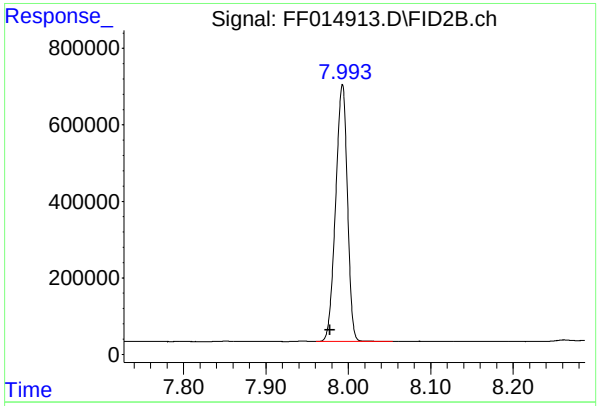
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF110424AR\
Data File : FF014913.D
Signal(s) : FID2B.ch
Acq On : 04 Nov 2024 15:00
Operator : YP\AJ
Sample : P4620-16
Misc :
ALS Vial : 68 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
P001-CF13-01

Integration File: autoint1.e
Quant Time: Nov 05 01:26:34 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 102124.M
Quant Title : GC Extractables
QLast Update : Tue Oct 22 04:14:53 2024
Response via : Initial Calibration
Integrator: ChemStation

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

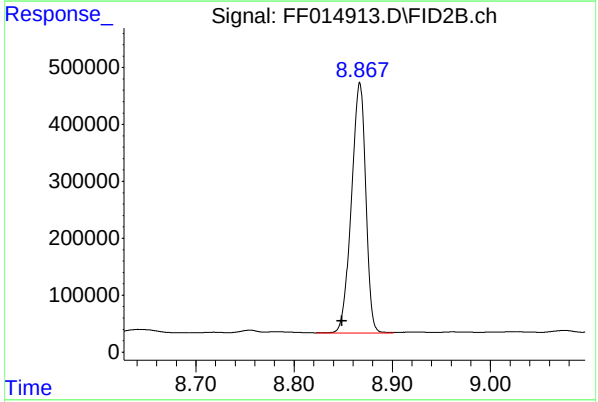




#4 2-Bromonaphthalene (SURR)

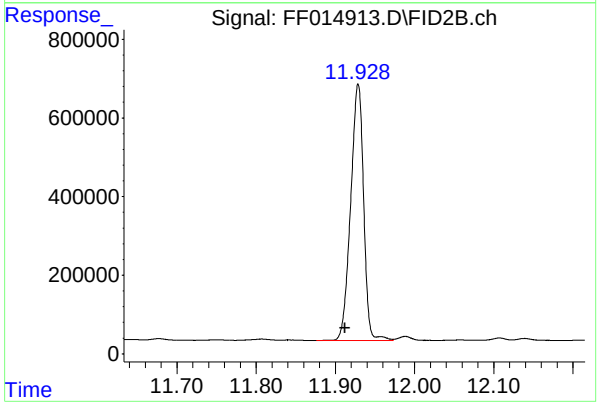
R.T.: 7.993 min
Delta R.T.: 0.015 min
Response: 6666559
Conc: 47.81 ug/ml

Instrument :
FID_F
ClientSampleId :
P001-CF13-01



#6 2-Flurobiphenyl (SURR)

R.T.: 8.867 min
Delta R.T.: 0.018 min
Response: 4457338
Conc: 47.26 ug/ml



#11 ortho-Terphenyl (SURR)

R.T.: 11.929 min
Delta R.T.: 0.017 min
Response: 7419832
Conc: 46.38 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF110424AR\
Data File : FF014913.D
Signal(s) : FID2B.ch
Acq On : 04 Nov 2024 15:00
Sample : P4620-16
Misc :
ALS Vial : 68 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 102124.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	4.855	4.839	4.897	VB	1834	20008	0.27%	0.075%
2	5.272	5.136	5.302	BV	4443	65341	0.88%	0.244%
3	5.508	5.371	5.546	VB	4542	49616	0.67%	0.186%
4	6.272	6.201	6.321	PB	2063	28227	0.38%	0.106%
5	6.567	6.476	6.594	BV	1897	31669	0.43%	0.118%
6	6.732	6.682	6.781	BB	2088	25754	0.35%	0.096%
7	7.366	7.338	7.402	PV	5683	71936	0.97%	0.269%
8	7.503	7.402	7.519	VV	3301	47466	0.64%	0.178%
9	7.535	7.519	7.564	VV	2626	33395	0.45%	0.125%
10	7.993	7.961	8.054	PV	672282	6666559	89.85%	24.937%
11	8.262	8.219	8.299	PV	4116	85453	1.15%	0.320%
12	8.311	8.299	8.329	VV	2842	31279	0.42%	0.117%
13	8.359	8.329	8.422	VV	7985	161729	2.18%	0.605%
14	8.479	8.422	8.495	PV	17340	199703	2.69%	0.747%
15	8.507	8.495	8.527	VV	11542	119781	1.61%	0.448%
16	8.642	8.609	8.682	VV	6237	135038	1.82%	0.505%
17	8.755	8.732	8.771	VV	4921	60205	0.81%	0.225%
18	8.867	8.822	8.901	VV	442552	4457338	60.07%	16.673%
19	9.023	8.989	9.051	VV	2201	59138	0.80%	0.221%
20	9.075	9.051	9.095	VV	4208	69315	0.93%	0.259%
21	9.126	9.095	9.141	VV	2700	46421	0.63%	0.174%
22	9.155	9.141	9.177	VV	2383	32813	0.44%	0.123%
23	9.204	9.177	9.224	VV	12484	156106	2.10%	0.584%
24	9.238	9.224	9.258	VV	4833	59636	0.80%	0.223%
25	9.285	9.258	9.307	VV	43618	479426	6.46%	1.793%
26	9.329	9.307	9.344	VV	5915	89096	1.20%	0.333%
27	9.374	9.344	9.391	VV	13482	183199	2.47%	0.685%
28	9.415	9.391	9.461	VV	14906	229089	3.09%	0.857%
29	9.531	9.496	9.548	VV	14005	171276	2.31%	0.641%
30	9.563	9.548	9.595	VV	10340	117613	1.59%	0.440%
31	9.668	9.628	9.722	VV	14269	256900	3.46%	0.961%
32	9.749	9.722	9.765	VV	5684	78026	1.05%	0.292%
33	9.777	9.765	9.799	VV	3292	39025	0.53%	0.146%
34	9.831	9.799	9.857	VV	15183	188445	2.54%	0.705%
35	9.872	9.857	9.883	VV	2540	31044	0.42%	0.116%
36	9.903	9.883	9.917	VV	5899	76241	1.03%	0.285%

rteres

37	9.931	9.917	9.944	VV	6267	72417	0.98%	0.271%
38	9.959	9.944	9.980	VV	7533	105491	1.42%	0.395%
39	10.076	10.052	10.098	VV	5280	90325	1.22%	0.338%
40	10.125	10.098	10.143	VV	3984	80305	1.08%	0.300%
41	10.168	10.143	10.218	VV	6072	138179	1.86%	0.517%
42	10.273	10.254	10.311	VV	2888	61838	0.83%	0.231%
43	10.338	10.311	10.412	VV	4334	86554	1.17%	0.324%
44	10.496	10.467	10.531	BV	4068	41623	0.56%	0.156%
45	10.630	10.579	10.653	VV	9856	187120	2.52%	0.700%
46	10.674	10.653	10.710	VV	16128	199180	2.68%	0.745%
47	10.751	10.710	10.792	VV	6965	166341	2.24%	0.622%
48	10.813	10.792	10.835	VV	5870	90599	1.22%	0.339%
49	10.851	10.835	10.869	VV	4305	57997	0.78%	0.217%
50	10.887	10.869	10.902	VV	2911	42022	0.57%	0.157%
51	10.921	10.902	10.937	VV	4653	57423	0.77%	0.215%
52	10.958	10.937	11.004	VV	4301	100381	1.35%	0.375%
53	11.024	11.004	11.072	VV	3452	78290	1.06%	0.293%
54	11.154	11.132	11.214	VB	14201	161058	2.17%	0.602%
55	11.332	11.312	11.354	PV	2221	32110	0.43%	0.120%
56	11.464	11.392	11.485	VV	3964	74889	1.01%	0.280%
57	11.507	11.485	11.528	VV	3262	60646	0.82%	0.227%
58	11.545	11.528	11.569	VV	3718	56399	0.76%	0.211%
59	11.633	11.592	11.659	VV	2405	69296	0.93%	0.259%
60	11.677	11.659	11.722	VV	4475	67315	0.91%	0.252%
61	11.807	11.774	11.829	VV	3541	57896	0.78%	0.217%
62	11.929	11.876	11.973	PV	653772	7419832	100.00%	27.755%
63	11.988	11.973	12.027	VV	10321	117812	1.59%	0.441%
64	12.107	12.082	12.123	VV	6149	73292	0.99%	0.274%
65	12.139	12.123	12.189	VV	5128	63218	0.85%	0.236%
66	12.325	12.282	12.347	VV	4245	69170	0.93%	0.259%
67	12.517	12.471	12.547	VV	8463	120551	1.62%	0.451%
68	12.772	12.727	12.816	VB	3509	78877	1.06%	0.295%
69	12.857	12.826	12.877	BV	4816	58569	0.79%	0.219%
70	12.916	12.877	12.952	VV	2350	52768	0.71%	0.197%
71	12.971	12.952	13.011	VB	2402	34845	0.47%	0.130%
72	13.270	13.216	13.296	BV	1929	26626	0.36%	0.100%
73	13.361	13.296	13.394	PV	129600	1588189	21.40%	5.941%
74	13.580	13.469	13.621	BV	2087	42907	0.58%	0.161%
75	18.073	17.987	18.107	BB	2874	44954	0.61%	0.168%
76	18.497	18.294	18.531	BB	3165	52693	0.71%	0.197%

Sum of corrected areas: 26733301

Aromatic EPH 102124.M Tue Nov 05 01:58:03 2024

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

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	10/29/24
Project:	RFP 872	Date Received:	10/29/24
Client Sample ID:	P001-CF13-01	SDG No.:	P4620
Lab Sample ID:	P4620-16	Matrix:	Water
Analytical Method:	NJEPH	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :	SW3510		

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FG014643.D	1	11/03/24	11/04/24	PB164637

CAS Number	Parameter		Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
Aliphatic C9-C12	Aliphatic C9-C12		5.76	U	5.76	30.0	ug/l
Aliphatic C12-C16	Aliphatic C12-C16		3.61	U	3.61	20.0	ug/l
Aliphatic C16-C21	Aliphatic C16-C21		5.14	U	5.14	30.0	ug/l
Aliphatic C21-C28	Aliphatic C21-C28		8.97	U	8.97	40.0	ug/l
Aliphatic C28-C40	Aliphatic C28-C40		17.0	U	17.0	60.0	ug/l
SURROGATES							
3383-33-2	1-chlorooctadecane (SURR)		42.5		40 - 140	85%	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:	P4620-16	Acq On:	04 Nov 2024 15:00
Client Sample ID:	P001-CF13-01	Operator:	YP\AJ
Data file:	FG014643.D	Misc:	
Instrument:	FID_G	ALS Vial:	18
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.228	6.849	60215	0.458	300	ug/ml
Aliphatic C12-C16	6.850	10.292	0	0	200	ug/ml
Aliphatic C16-C21	10.293	13.665	0	0	300	ug/ml
Aliphatic C21-C28	13.666	17.329	0	0	400	ug/ml
Aliphatic C28-C40	17.330	22.266	0	0	600	ug/ml
Aliphatic EPH	3.228	22.266	60215	0.458		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	13.398	13.398	5219304	42.51		ug/ml
Aliphatic C9-C28	3.228	17.329	60215	0.458	1200	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG110424AL\
Data File : FG014643.D
Signal(s) : FID1A.ch
Acq On : 04 Nov 2024 15:00
Operator : YP\AJ
Sample : P4620-16
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
P001-CF13-01

Integration File: autoint1.e
Quant Time: Nov 05 00:37:14 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 102124.M
Quant Title : GC Extractables
QLast Update : Tue Oct 22 06:49:54 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...	13.398	5219304	42.506 ug/ml
Spiked Amount 50.000		Recovery = 85.01%	
Target Compounds			

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

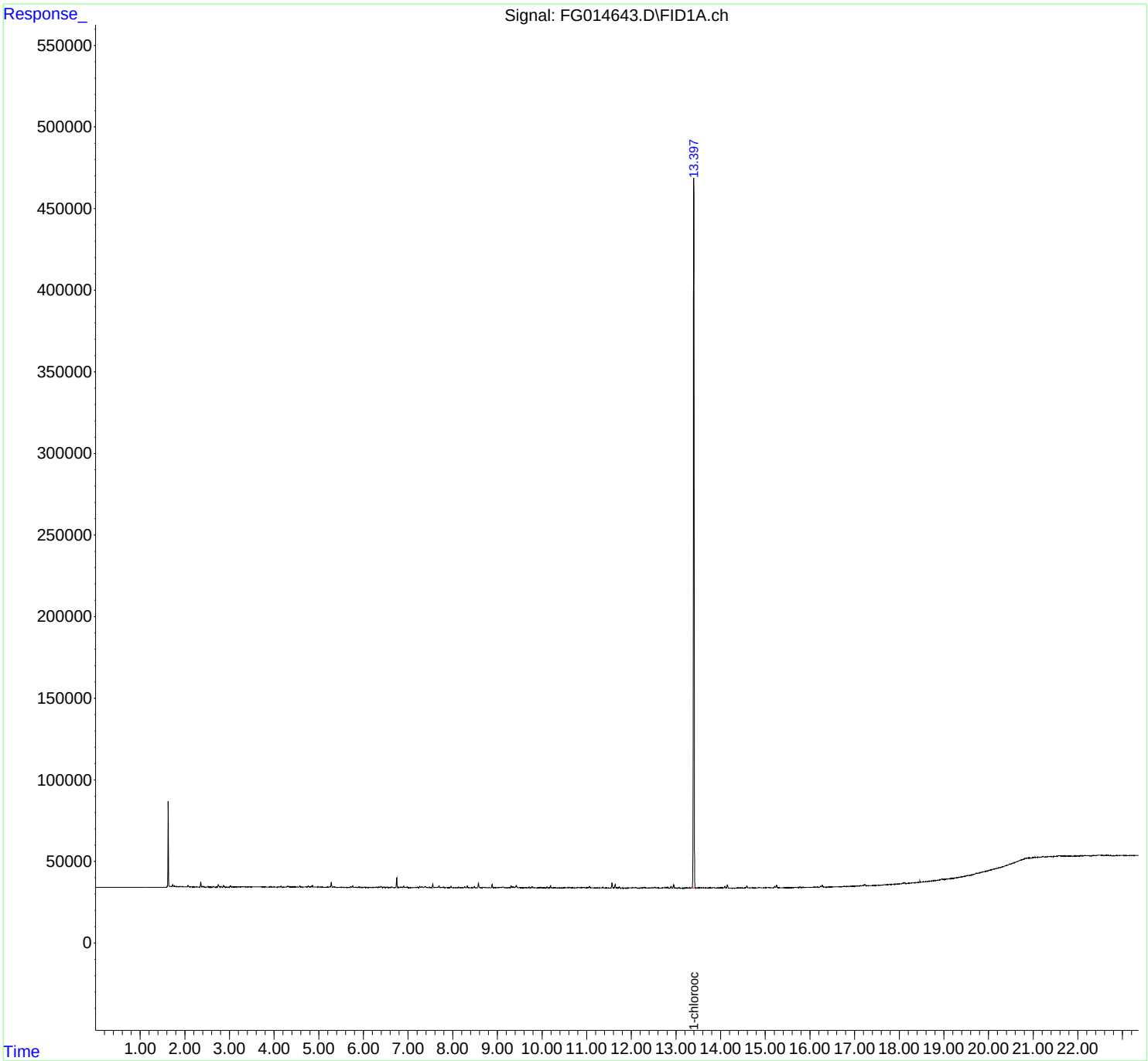
Quantitation Report (QT Reviewed)

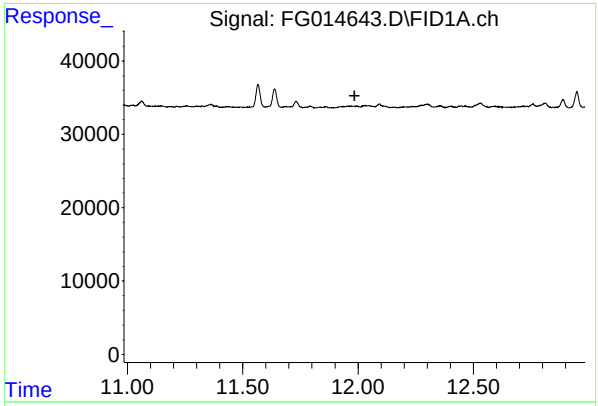
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG110424AL\
Data File : FG014643.D
Signal(s) : FID1A.ch
Acq On : 04 Nov 2024 15:00
Operator : YP\AJ
Sample : P4620-16
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
P001-CF13-01

Integration File: autoint1.e
Quant Time: Nov 05 00:37:14 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 102124.M
Quant Title : GC Extractables
QLast Update : Tue Oct 22 06:49:54 2024
Response via : Initial Calibration
Integrator: ChemStation

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

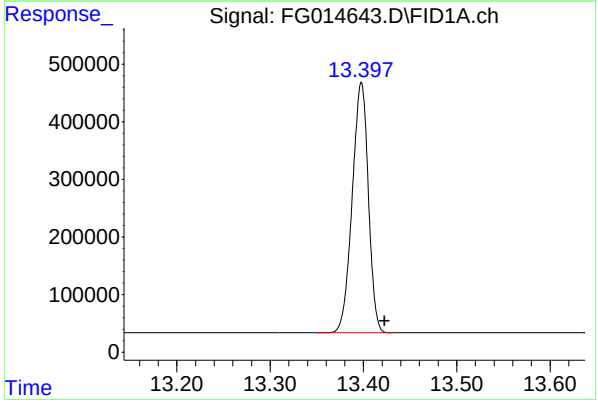




#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.984 min
Response: 0
Conc: N.D.

Instrument :
FID_G
ClientSampleId :
P001-CF13-01



#12 1-chlorooctadecane (SURR)

R.T.: 13.398 min
Delta R.T.: -0.025 min
Response: 5219304
Conc: 42.51 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG110424AL\
Data File : FG014643.D
Signal(s) : FID1A.ch
Acq On : 04 Nov 2024 15:00
Sample : P4620-16
Misc :
ALS Vial : 18 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 102124.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	6.747	6.716	6.778	BB	5941	60215	1.15%	1.141%
2	13.398	13.349	13.432	BB	434732	5219304	100.00%	98.859%
			Sum of corrected areas:			5279519		

Aliphatic EPH 102124.M Tue Nov 05 01:19:02 2024

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

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	10/29/24
Project:	RFP 872	Date Received:	10/29/24
Client Sample ID:	P001-CF14-01	SDG No.:	P4620
Lab Sample ID:	P4620-17	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	95.3
Sample Wt/Vol:	30.09 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
11/03/24 08:45	11/04/24 21:29	PB164618

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	0.40	U	1	0.40	1.05	mg/kg	FC067612.D
Aliphatic C12-C16	Aliphatic C12-C16	0.25	U	1	0.25	0.70	mg/kg	FC067612.D
Aliphatic C16-C21	Aliphatic C16-C21	0.31	U	1	0.31	1.05	mg/kg	FC067612.D
Aliphatic C21-C28	Aliphatic C21-C28	0.84	U	1	0.84	1.39	mg/kg	FC067612.D
Aliphatic C28-C40	Aliphatic C28-C40	1.88	U	1	1.88	2.09	mg/kg	FC067612.D
Aromatic C10-C12	Aromatic C10-C12	0.31	U	1	0.31	0.70	mg/kg	FD048649.D
Aromatic C12-C16	Aromatic C12-C16	0.36	U	1	0.36	1.05	mg/kg	FD048649.D
Aromatic C16-C21	Aromatic C16-C21	1.00	U	1	1.00	1.74	mg/kg	FD048649.D
Aromatic C21-C36	Aromatic C21-C36	2.09	U	1	2.09	2.79	mg/kg	FD048649.D
Total AliphaticEPH	Total AliphaticEPH	3.68	U		3.68	6.28	mg/kg	
Total AromaticEPH	Total AromaticEPH	3.76	U		3.76	6.28	mg/kg	
Total EPH	Total EPH	7.44	U		7.44	12.6	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:	Weston Solutions, Inc.	Date Collected:	10/29/24
Project:	RFP 872	Date Received:	10/29/24
Client Sample ID:	P001-CF14-01	SDG No.:	P4620
Lab Sample ID:	P4620-17	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	95.3
Sample Wt/Vol:	30.09 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FC067612.D	1	11/03/24	11/04/24	PB164618

CAS Number	Parameter		Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
Aliphatic C9-C12	Aliphatic C9-C12		0.40	U	0.40	1.05	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16		0.25	U	0.25	0.70	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21		0.31	U	0.31	1.05	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28		0.84	U	0.84	1.39	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40		1.88	U	1.88	2.09	mg/kg
SURROGATES							
3383-33-2	1-chlorooctadecane (SURR)		37.2		40 - 140	74%	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:	P4620-17	Acq On:	04 Nov 2024 21:29
Client Sample ID:	P001-CF14-01	Operator:	YP/AJ
Data file:	FC067612.D	Misc:	
Instrument:	FID_C	ALS Vial:	14
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.171	6.449	54904	0.405	300	ug/ml
Aliphatic C12-C16	6.450	9.838	50781	0.386	200	ug/ml
Aliphatic C16-C21	9.839	13.196	0	0	300	ug/ml
Aliphatic C21-C28	13.197	16.847	0	0	400	ug/ml
Aliphatic C28-C40	16.848	21.685	0	0	600	ug/ml
Aliphatic EPH	3.171	21.685	105685	0.791		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	12.928	12.928	4021749	37.24		ug/ml
Aliphatic C9-C28	3.171	16.847	105685	0.791	1200	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC110424AL\
Data File : FC067612.D
Signal(s) : FID1A.ch
Acq On : 04 Nov 2024 21:29
Operator : YP/AJ
Sample : P4620-17
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
P001-CF14-01

Integration File: autoint1.e
Quant Time: Nov 05 03:45:16 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...	12.928	4021749	37.242 ug/ml
Spiked Amount 50.000		Recovery = 74.48%	
Target Compounds			

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

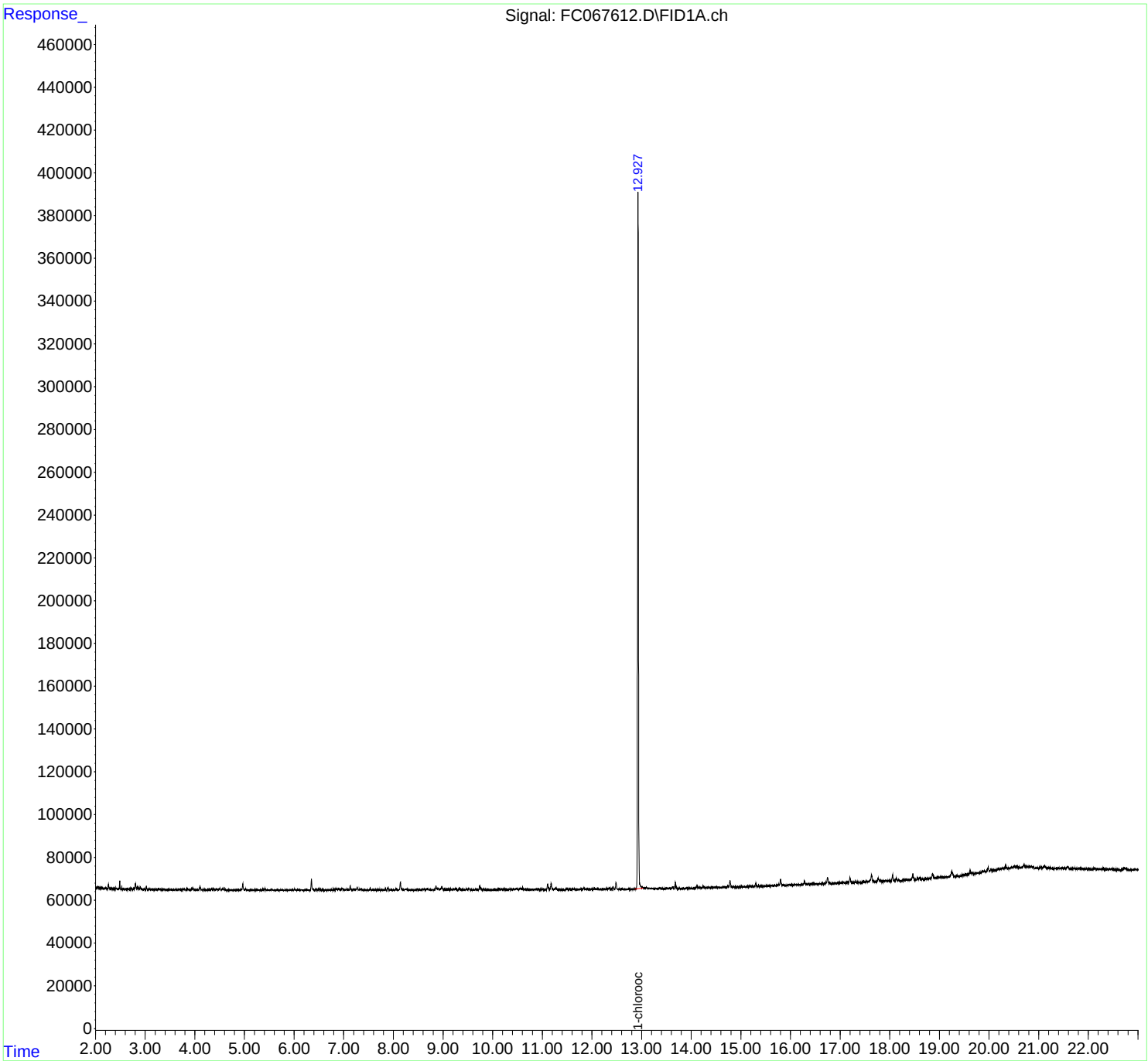
Quantitation Report (QT Reviewed)

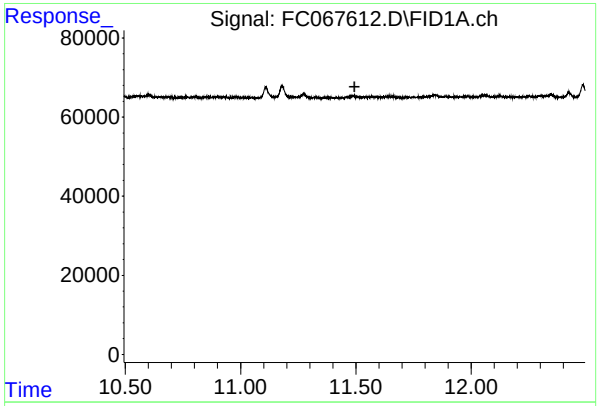
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC110424AL\
Data File : FC067612.D
Signal(s) : FID1A.ch
Acq On : 04 Nov 2024 21:29
Operator : YP/AJ
Sample : P4620-17
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
P001-CF14-01

Integration File: autoint1.e
Quant Time: Nov 05 03:45:16 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

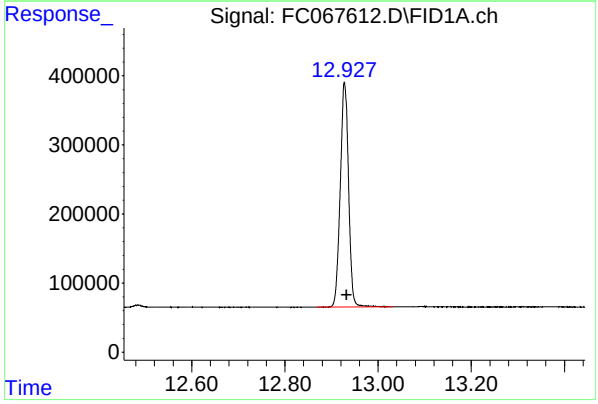




#9 ortho-Terphenyl (SURR)

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

Instrument :
FID_C
ClientSampleId :
P001-CF14-01



#12 1-chlorooctadecane (SURR)

R.T.: 12.928 min
Delta R.T.: -0.005 min
Response: 4021749
Conc: 37.24 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC110424AL\
Data File : FC067612.D
Signal(s) : FID1A.ch
Acq On : 04 Nov 2024 21:29
Sample : P4620-17
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	6.350	6.295	6.389	BB	5178	54904	1.37%	1.330%
2	8.142	8.002	8.185	BB	3589	50781	1.26%	1.230%
3	12.928	12.867	13.032	BB	322523	4021749	100.00%	97.439%
			Sum of corrected areas:			4127434		

Aliphatic EPH 102324.M Tue Nov 05 05:28:35 2024

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Fax : 908 789 8922

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	10/29/24
Project:	RFP 872	Date Received:	10/29/24
Client Sample ID:	P001-CF14-01	SDG No.:	P4620
Lab Sample ID:	P4620-17	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	95.3
Sample Wt/Vol:	30.09 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FD048649.D	1	11/03/24	11/04/24	PB164618

CAS Number	Parameter		Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
Aromatic C10-C12	Aromatic C10-C12		0.31	U	0.31	0.70	mg/kg
Aromatic C12-C16	Aromatic C12-C16		0.36	U	0.36	1.05	mg/kg
Aromatic C16-C21	Aromatic C16-C21		1.00	U	1.00	1.74	mg/kg
Aromatic C21-C36	Aromatic C21-C36		2.09	U	2.09	2.79	mg/kg
SURROGATES							
580-13-2	2-Bromonaphthalene (SURR)		48.3		40 - 140	96%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)		49.3		40 - 140	99%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)		26.0		40 - 140	52%	SPK: 50

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Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	P4620-17	Acq On:	04 Nov 2024 21:29
Client Sample ID:	P001-CF14-01	Operator:	YP/AJ
Data file:	FD048649.D	Misc:	
Instrument:	FID_D	ALS Vial:	64
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic EPH	4.093	18.080	2762856	17.532		ug/ml
2-Bromonaphthalene (SURR)	7.371	7.371	7322770	48.25		ug/ml
2-Flurobiphenyl (SURR)	8.220	8.220	4837250	49.26		ug/ml
ortho-Terphenyl (SURR)	11.254	11.254	4422710	25.96		ug/ml
Aromatic C10-C12	4.093	5.811	130753	0.742	200	ug/ml
Aromatic C12-C16	5.812	8.416	37509	0.212	300	ug/ml
Aromatic C16-C21	8.417	12.676	925877	5.651	500	ug/ml
Aromatic C21-C36	12.677	18.080	1668717	10.927	800	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD110424AR\
Data File : FD048649.D
Signal(s) : FID2B.ch
Acq On : 04 Nov 2024 21:29
Operator : YP/AJ
Sample : P4620-17
Misc :
ALS Vial : 64 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
P001-CF14-01

Integration File: autoint1.e
Quant Time: Nov 05 02:08:37 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	7322770	48.246 ug/ml
Spiked Amount 50.000		Recovery =	96.49%
6) S 2-Flurobiphenyl (SURR)	8.220	4837250	49.263 ug/ml
Spiked Amount 50.000	Range 0 - 131	Recovery =	98.53%
11) S ortho-Terphenyl (SURR)	11.254	4422710	25.964 ug/ml
Spiked Amount 50.000		Recovery =	51.93%
Target Compounds			

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

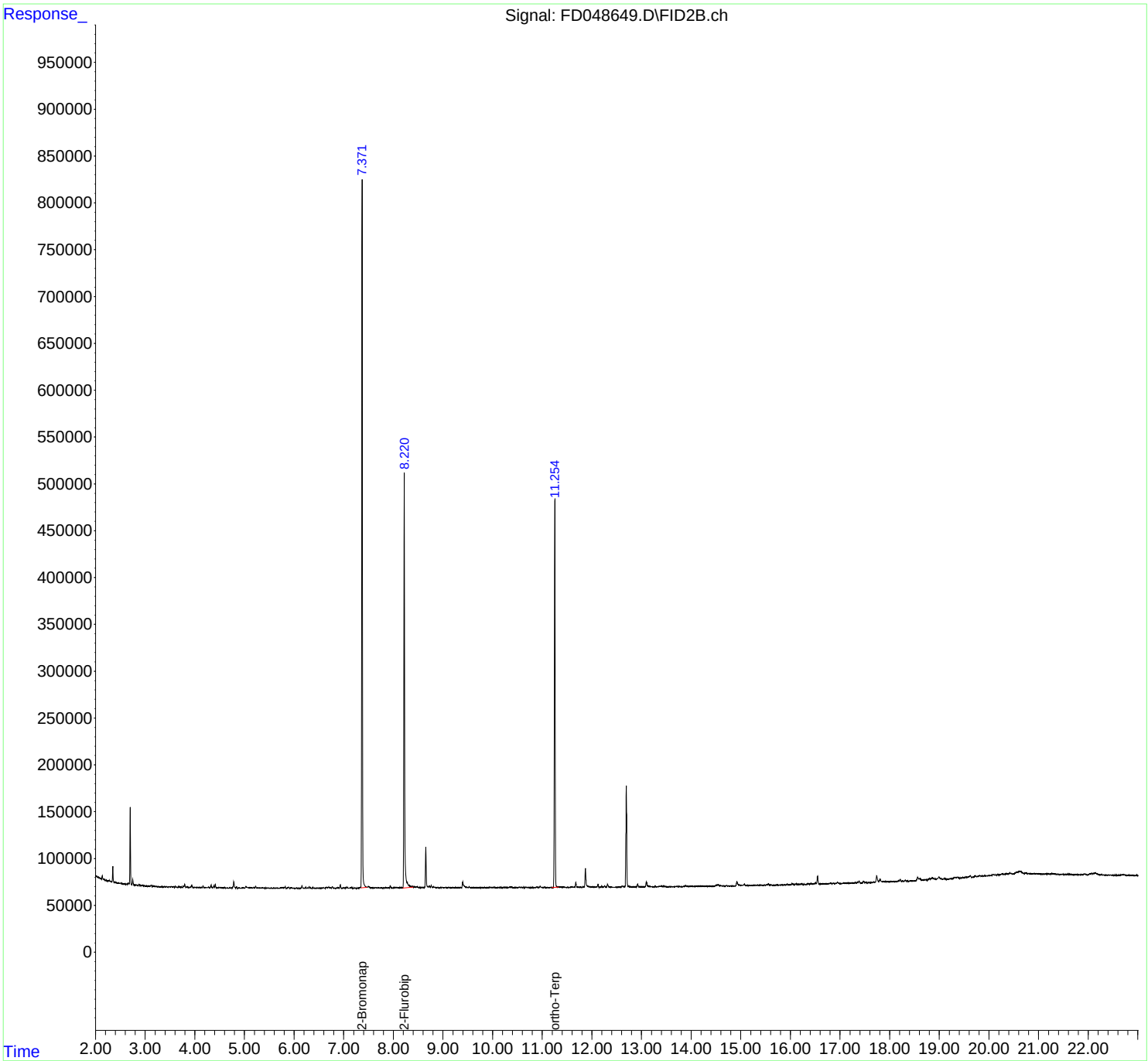
Quantitation Report (QT Reviewed)

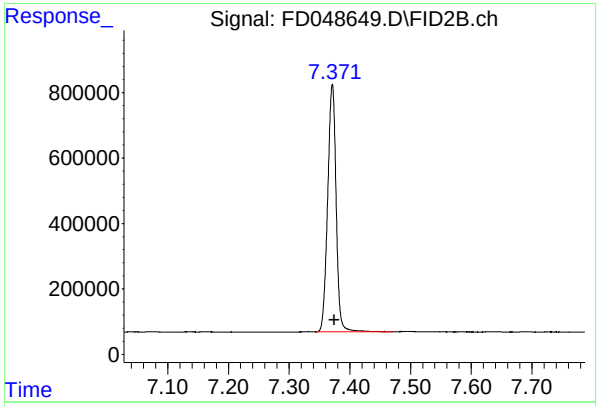
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD110424AR\
Data File : FD048649.D
Signal(s) : FID2B.ch
Acq On : 04 Nov 2024 21:29
Operator : YP/AJ
Sample : P4620-17
Misc :
ALS Vial : 64 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
P001-CF14-01

Integration File: autoint1.e
Quant Time: Nov 05 02:08:37 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

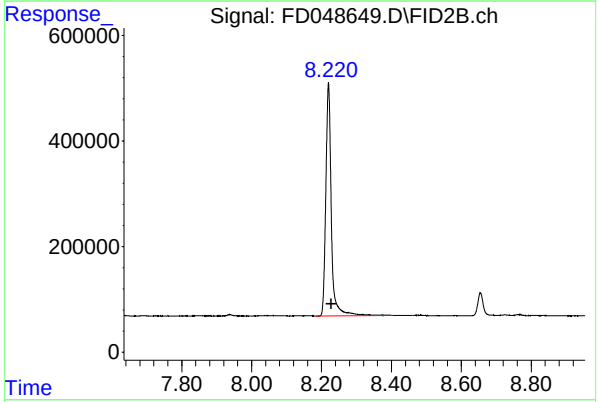




#4 2-Bromonaphthalene (SURR)

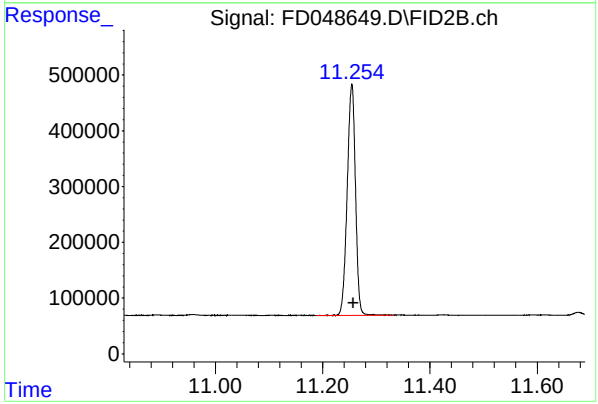
R.T.: 7.371 min
Delta R.T.: -0.004 min
Response: 7322770
Conc: 48.25 ug/ml

Instrument :
FID_D
ClientSampleId :
P001-CF14-01



#6 2-Flurobiphenyl (SURR)

R.T.: 8.220 min
Delta R.T.: -0.008 min
Response: 4837250
Conc: 49.26 ug/ml



#11 ortho-Terphenyl (SURR)

R.T.: 11.254 min
Delta R.T.: -0.003 min
Response: 4422710
Conc: 25.96 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD110424AR\
Data File : FD048649.D
Signal(s) : FID2B.ch
Acq On : 04 Nov 2024 21:29
Sample : P4620-17
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	4.412	4.396	4.454	VV	3766	35325	0.48%	0.183%
2	4.785	4.641	4.822	BV	6612	95428	1.30%	0.493%
3	6.932	6.904	6.961	BV	3640	37509	0.51%	0.194%
4	7.371	7.344	7.471	PV	757847	7322770	100.00%	37.852%
5	8.220	8.184	8.404	PB	440941	4837250	66.06%	25.004%
6	8.655	8.618	8.702	BV	43307	458317	6.26%	2.369%
7	9.398	9.376	9.498	PB	6239	129800	1.77%	0.671%
8	11.254	11.188	11.331	BV	415248	4422710	60.40%	22.862%
9	11.677	11.648	11.728	BB	5161	67044	0.92%	0.347%
10	11.871	11.848	11.968	VB	20120	270716	3.70%	1.399%
11	12.695	12.643	12.764	VB	107779	1279869	17.48%	6.616%
12	13.098	12.951	13.171	PV	5237	86878	1.19%	0.449%
13	14.921	14.861	15.004	BV	4629	89139	1.22%	0.461%
14	16.546	16.520	16.601	VB	8655	116320	1.59%	0.601%
15	17.737	17.701	17.778	BV	6407	96511	1.32%	0.499%

Sum of corrected areas: 19345586

Aromatic EPH 102324.M Tue Nov 05 03:31:50 2024

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

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	10/29/24
Project:	RFP 872	Date Received:	10/29/24
Client Sample ID:	P001-CF14-01	SDG No.:	P4620
Lab Sample ID:	P4620-18	Matrix:	Water
Analytical Method:	NJEPH	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :	SW3510		

Prep Date :	Date Analyzed :	Prep Batch ID
11/03/24 08:20	11/04/24 15:28	PB164637

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	5.76	U	1	5.76	30.0	ug/l	FG014644.D
Aliphatic C12-C16	Aliphatic C12-C16	3.61	U	1	3.61	20.0	ug/l	FG014644.D
Aliphatic C16-C21	Aliphatic C16-C21	5.14	U	1	5.14	30.0	ug/l	FG014644.D
Aliphatic C21-C28	Aliphatic C21-C28	8.97	U	1	8.97	40.0	ug/l	FG014644.D
Aliphatic C28-C40	Aliphatic C28-C40	17.0	U	1	17.0	60.0	ug/l	FG014644.D
Aromatic C10-C12	Aromatic C10-C12	3.32	U	1	3.32	20.0	ug/l	FF014914.D
Aromatic C12-C16	Aromatic C12-C16	3.69	U	1	3.69	30.0	ug/l	FF014914.D
Aromatic C16-C21	Aromatic C16-C21	33.4	J	1	12.7	50.0	ug/l	FF014914.D
Aromatic C21-C36	Aromatic C21-C36	25.2	U	1	25.2	80.0	ug/l	FF014914.D
Total AliphaticEPH	Total AliphaticEPH	40.5	U		40.5	180	ug/l	
Total AromaticEPH	Total AromaticEPH	44.9	U		44.9	180	ug/l	
Total EPH	Total EPH	85.4	U		85.4	360	ug/l	

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

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

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

Report of Analysis

Client:	Weston Solutions, Inc.		Date Collected:	10/29/24	
Project:	RFP 872		Date Received:	10/29/24	
Client Sample ID:	P001-CF14-01		SDG No.:	P4620	
Lab Sample ID:	P4620-18		Matrix:	Water	
Analytical Method:	NJEPH		% Solid:	0	
Sample Wt/Vol:	1000	Units: mL	Final Vol:	2000	uL
Soil Aliquot Vol:		uL	Test:	EPH	
Prep Method :	SW3510				

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FF014914.D	1	11/03/24	11/04/24	PB164637

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	3.32	U	3.32	20.0	ug/l
Aromatic C12-C16	Aromatic C12-C16	3.69	U	3.69	30.0	ug/l
Aromatic C16-C21	Aromatic C16-C21	33.4	J	12.7	50.0	ug/l
Aromatic C21-C36	Aromatic C21-C36	25.2	U	25.2	80.0	ug/l
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	47.2		40 - 140	94%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	46.6		40 - 140	93%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	46.4		40 - 140	93%	SPK: 50

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Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	P4620-18	Acq On:	04 Nov 2024 15:28
Client Sample ID:	P001-CF14-01	Operator:	YP\AJ
Data file:	FF014914.D	Misc:	
Instrument:	FID_F	ALS Vial:	69
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.508	6.372	129441	0.829	200	ug/ml
Aromatic C12-C16	6.373	9.064	79694	0.499	300	ug/ml
Aromatic C16-C21	9.065	13.375	2593883	16.693	500	ug/ml
Aromatic C21-C36	13.376	18.817	198051	1.334	800	ug/ml
Aromatic EPH	4.508	18.817	3001069	19.356		ug/ml
ortho-Terphenyl (SURR)	11.930	11.930	7415061	46.35		ug/ml
2-Bromonaphthalene (SURR)	7.993	7.993	6577938	47.17		ug/ml
2-Flurobiphenyl (SURR)	8.866	8.866	4395637	46.61		ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF110424AR\
Data File : FF014914.D
Signal(s) : FID2B.ch
Acq On : 04 Nov 2024 15:28
Operator : YP\AJ
Sample : P4620-18
Misc :
ALS Vial : 69 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
P001-CF14-01

Integration File: autoint1.e
Quant Time: Nov 05 01:26:43 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 102124.M
Quant Title : GC Extractables
QLast Update : Tue Oct 22 04:14:53 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...	7.993	6577938	47.172 ug/ml
Spiked Amount 50.000		Recovery = 94.34%	
6) S 2-Flurobiphenyl (SURR)	8.866	4395637	46.608 ug/ml
Spiked Amount 50.000 Range 0 - 131		Recovery = 93.22%	
11) S ortho-Terphenyl (SURR)	11.930	7415061	46.351 ug/ml
Spiked Amount 50.000		Recovery = 92.70%	
Target Compounds			

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

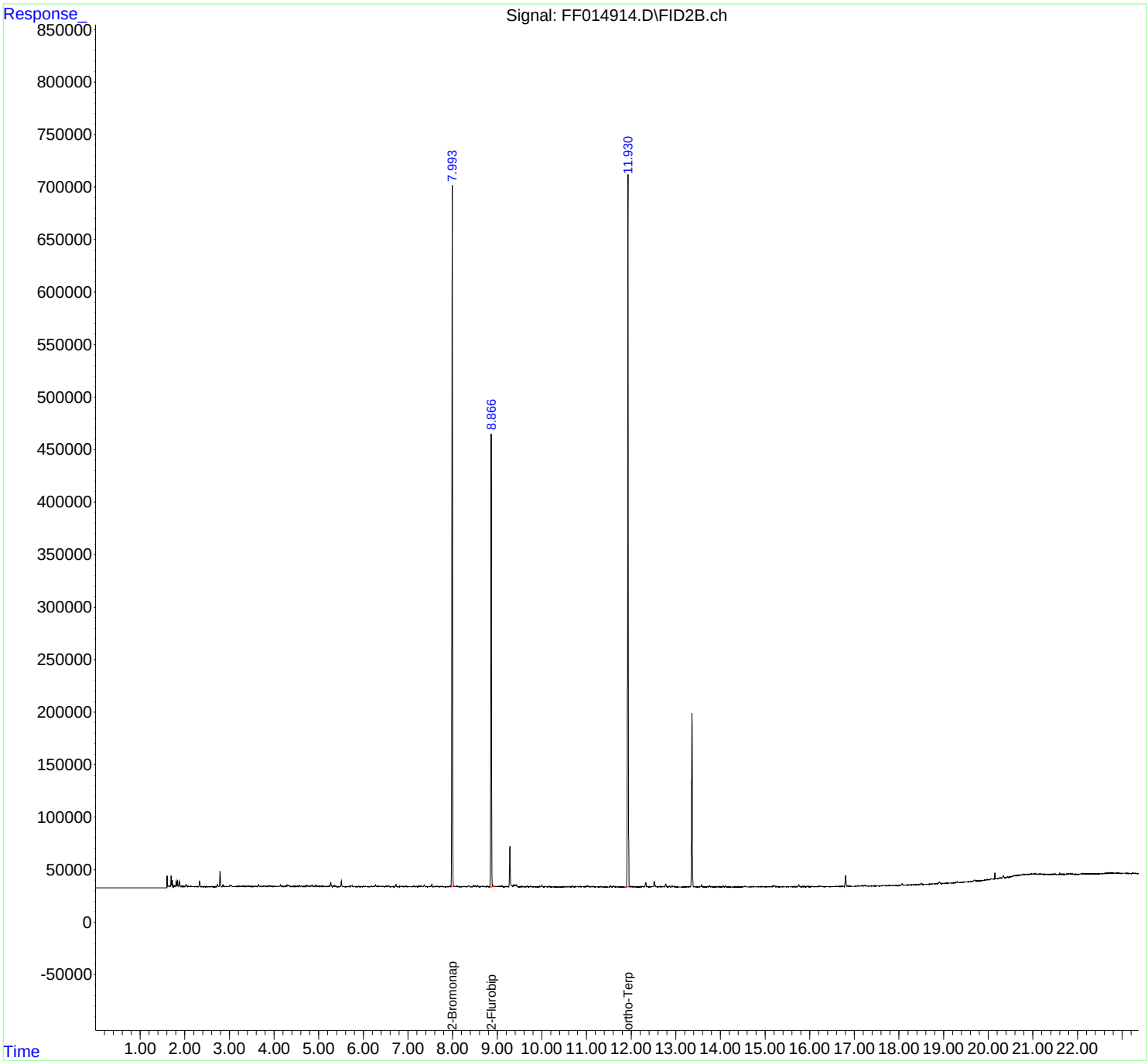
Quantitation Report (QT Reviewed)

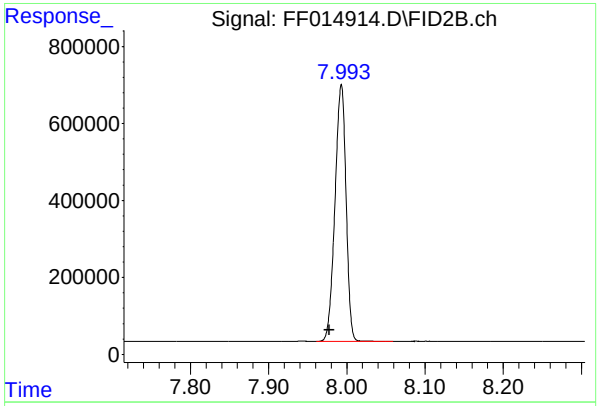
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF110424AR\
Data File : FF014914.D
Signal(s) : FID2B.ch
Acq On : 04 Nov 2024 15:28
Operator : YP\AJ
Sample : P4620-18
Misc :
ALS Vial : 69 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
P001-CF14-01

Integration File: autoint1.e
Quant Time: Nov 05 01:26:43 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 102124.M
Quant Title : GC Extractables
QLast Update : Tue Oct 22 04:14:53 2024
Response via : Initial Calibration
Integrator: ChemStation

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

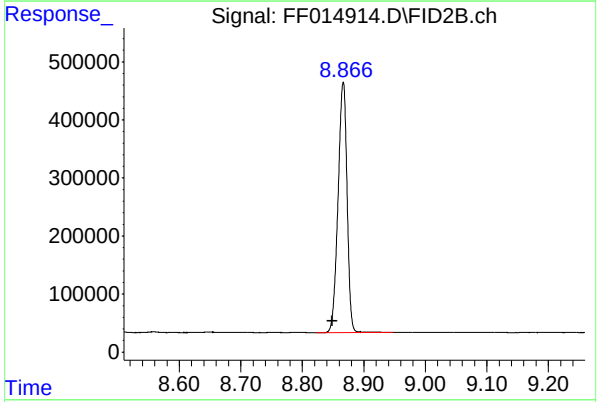




#4 2-Bromonaphthalene (SURR)

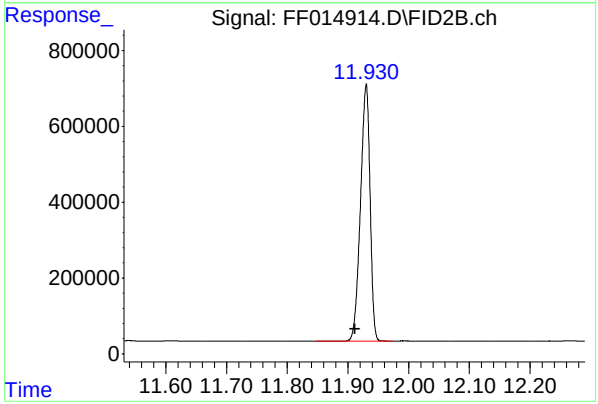
R.T.: 7.993 min
Delta R.T.: 0.015 min
Response: 6577938
Conc: 47.17 ug/ml

Instrument :
FID_F
ClientSampleId :
P001-CF14-01



#6 2-Flurobiphenyl (SURR)

R.T.: 8.866 min
Delta R.T.: 0.017 min
Response: 4395637
Conc: 46.61 ug/ml



#11 ortho-Terphenyl (SURR)

R.T.: 11.930 min
Delta R.T.: 0.018 min
Response: 7415061
Conc: 46.35 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF110424AR\
Data File : FF014914.D
Signal(s) : FID2B.ch
Acq On : 04 Nov 2024 15:28
Sample : P4620-18
Misc :
ALS Vial : 69 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 102124.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	5.271	5.204	5.306	BV	3904	51140	0.69%	0.239%
2	5.508	5.434	5.544	BB	5178	54102	0.73%	0.253%
3	6.272	6.202	6.324	PB	1662	24199	0.33%	0.113%
4	6.732	6.672	6.781	BB	2316	26414	0.36%	0.123%
5	7.368	7.337	7.399	PB	1810	24296	0.33%	0.114%
6	7.536	7.516	7.567	VV	2452	28984	0.39%	0.136%
7	7.993	7.961	8.059	PV	666963	6577938	88.71%	30.753%
8	8.866	8.822	8.947	BB	430876	4395637	59.28%	20.550%
9	9.285	9.224	9.344	PV	38315	415639	5.61%	1.943%
10	9.363	9.344	9.386	VV	1466	16302	0.22%	0.076%
11	10.000	9.919	10.051	BB	1726	30547	0.41%	0.143%
12	11.930	11.847	11.974	BV	673102	7415061	100.00%	34.666%
13	12.326	12.299	12.351	BV	4068	48277	0.65%	0.226%
14	12.518	12.456	12.587	BB	5049	74612	1.01%	0.349%
15	12.776	12.714	12.821	BB	2609	36814	0.50%	0.172%
16	13.361	13.297	13.419	BB	165391	1971692	26.59%	9.218%
17	13.580	13.486	13.617	BV	2108	33240	0.45%	0.155%
18	15.754	15.697	15.802	BB	2025	28793	0.39%	0.135%
19	16.802	16.649	16.831	BV	10121	136018	1.83%	0.636%
			Sum of corrected areas:			21389703		

Aromatic EPH 102124.M Tue Nov 05 01:58:15 2024

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Report of Analysis

Client:	Weston Solutions, Inc.		Date Collected:	10/29/24	
Project:	RFP 872		Date Received:	10/29/24	
Client Sample ID:	P001-CF14-01		SDG No.:	P4620	
Lab Sample ID:	P4620-18		Matrix:	Water	
Analytical Method:	NJEPH		% Solid:	0	
Sample Wt/Vol:	1000	Units: mL	Final Vol:	2000	uL
Soil Aliquot Vol:		uL	Test:	EPH	
Prep Method :	SW3510				

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FG014644.D	1	11/03/24	11/04/24	PB164637

CAS Number	Parameter		Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
Aliphatic C9-C12	Aliphatic C9-C12		5.76	U	5.76	30.0	ug/l
Aliphatic C12-C16	Aliphatic C12-C16		3.61	U	3.61	20.0	ug/l
Aliphatic C16-C21	Aliphatic C16-C21		5.14	U	5.14	30.0	ug/l
Aliphatic C21-C28	Aliphatic C21-C28		8.97	U	8.97	40.0	ug/l
Aliphatic C28-C40	Aliphatic C28-C40		17.0	U	17.0	60.0	ug/l
SURROGATES							
3383-33-2	1-chlorooctadecane (SURR)		43.4		40 - 140	87%	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:	P4620-18	Acq On:	04 Nov 2024 15:28
Client Sample ID:	P001-CF14-01	Operator:	YP\AJ
Data file:	FG014644.D	Misc:	
Instrument:	FID_G	ALS Vial:	19
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.228	6.849	80967	0.616	300	ug/ml
Aliphatic C12-C16	6.850	10.292	38929	0.287	200	ug/ml
Aliphatic C16-C21	10.293	13.665	0	0	300	ug/ml
Aliphatic C21-C28	13.666	17.329	0	0	400	ug/ml
Aliphatic C28-C40	17.330	22.266	0	0	600	ug/ml
Aliphatic EPH	3.228	22.266	119896	0.903		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	13.398	13.398	5324709	43.36		ug/ml
Aliphatic C9-C28	3.228	17.329	119896	0.903	1200	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG110424AL\
Data File : FG014644.D
Signal(s) : FID1A.ch
Acq On : 04 Nov 2024 15:28
Operator : YP\AJ
Sample : P4620-18
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
P001-CF14-01

Integration File: autoint1.e
Quant Time: Nov 05 00:37:23 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 102124.M
Quant Title : GC Extractables
QLast Update : Tue Oct 22 06:49:54 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...	13.398	5324709	43.364 ug/ml
Spiked Amount 50.000		Recovery = 86.73%	
Target Compounds			

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

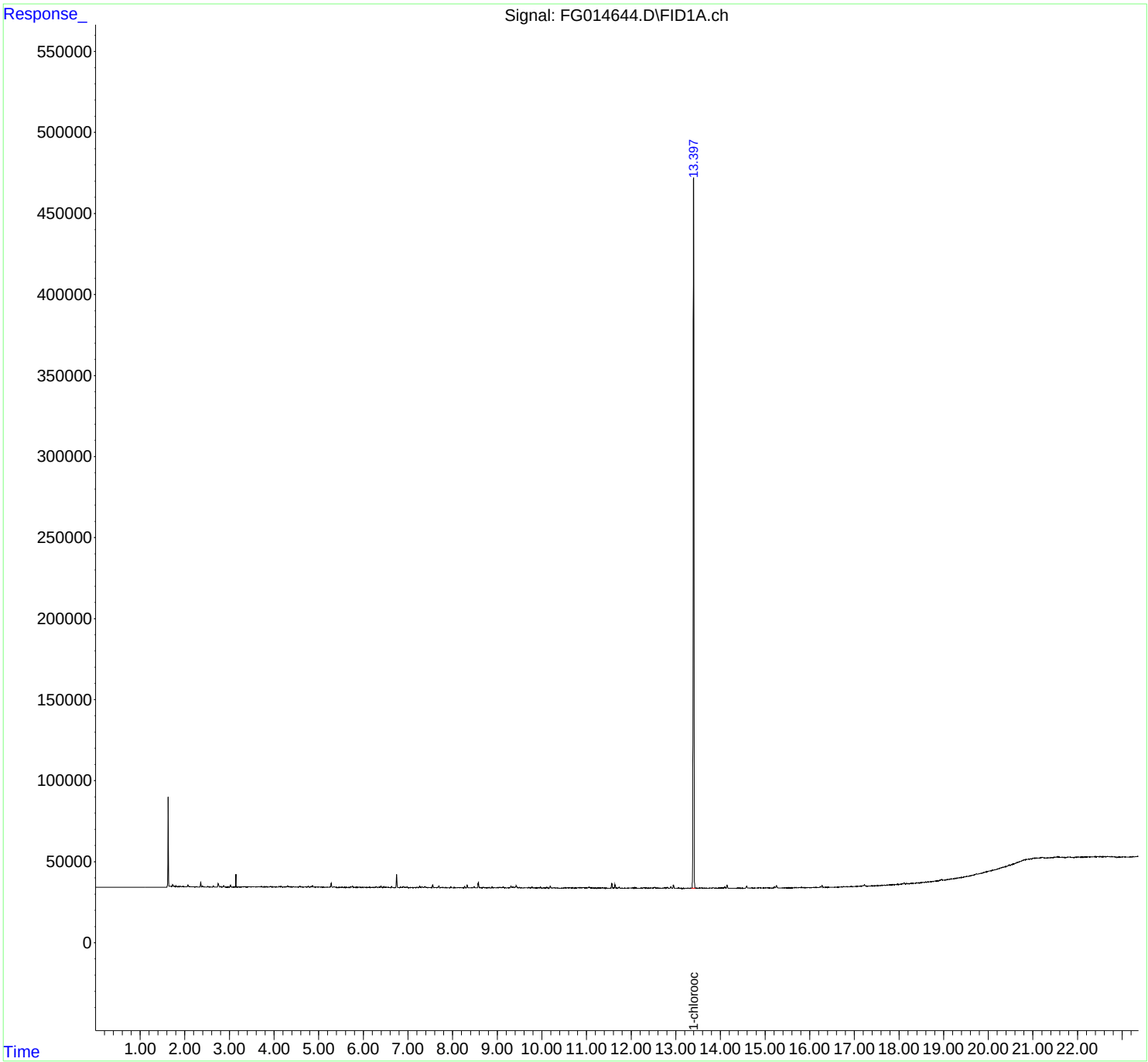
Quantitation Report (QT Reviewed)

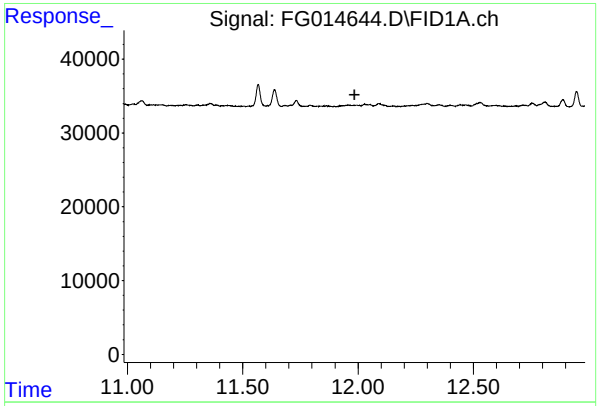
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG110424AL\
Data File : FG014644.D
Signal(s) : FID1A.ch
Acq On : 04 Nov 2024 15:28
Operator : YP\AJ
Sample : P4620-18
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
P001-CF14-01

Integration File: autoint1.e
Quant Time: Nov 05 00:37:23 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 102124.M
Quant Title : GC Extractables
QLast Update : Tue Oct 22 06:49:54 2024
Response via : Initial Calibration
Integrator: ChemStation

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

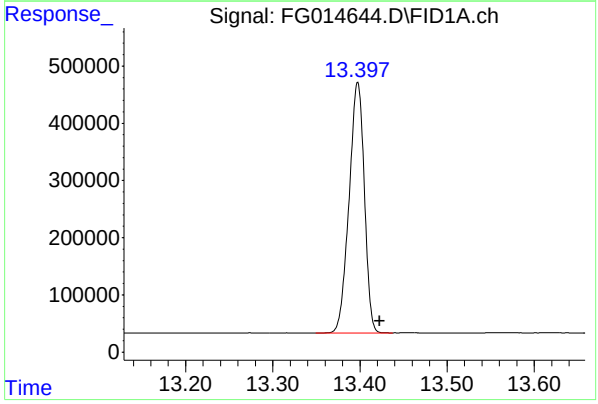




#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.984 min
Response: 0
Conc: N.D.

Instrument :
FID_G
ClientSampleId :
P001-CF14-01



#12 1-chlorooctadecane (SURR)

R.T.: 13.398 min
Delta R.T.: -0.025 min
Response: 5324709
Conc: 43.36 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG110424AL\
Data File : FG014644.D
Signal(s) : FID1A.ch
Acq On : 04 Nov 2024 15:28
Sample : P4620-18
Misc :
ALS Vial : 19 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 102124.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	3.143	3.138	3.163	BB	7963	12170	0.23%	0.223%
2	6.747	6.719	6.774	BB	8136	80967	1.52%	1.484%
3	8.579	8.553	8.604	BB	3498	38929	0.73%	0.713%
4	13.398	13.349	13.438	BB	438361	5324709	100.00%	97.580%
			Sum of corrected areas:			5456775		

Aliphatic EPH 102124.M Tue Nov 05 01:19:12 2024

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Fax : 908 789 8922

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	10/29/24
Project:	RFP 872	Date Received:	10/29/24
Client Sample ID:	P001-CF15-01	SDG No.:	P4620
Lab Sample ID:	P4620-19	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	95.5
Sample Wt/Vol:	30.05 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
11/03/24 08:45	11/04/24 22:05	PB164618

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	0.40	U	1	0.40	1.05	mg/kg	FC067613.D
Aliphatic C12-C16	Aliphatic C12-C16	0.25	U	1	0.25	0.70	mg/kg	FC067613.D
Aliphatic C16-C21	Aliphatic C16-C21	0.31	U	1	0.31	1.05	mg/kg	FC067613.D
Aliphatic C21-C28	Aliphatic C21-C28	0.84	U	1	0.84	1.39	mg/kg	FC067613.D
Aliphatic C28-C40	Aliphatic C28-C40	1.88	U	1	1.88	2.09	mg/kg	FC067613.D
Aromatic C10-C12	Aromatic C10-C12	0.31	U	1	0.31	0.70	mg/kg	FD048650.D
Aromatic C12-C16	Aromatic C12-C16	0.36	U	1	0.36	1.05	mg/kg	FD048650.D
Aromatic C16-C21	Aromatic C16-C21	1.00	U	1	1.00	1.74	mg/kg	FD048650.D
Aromatic C21-C36	Aromatic C21-C36	2.09	U	1	2.09	2.79	mg/kg	FD048650.D
Total AliphaticEPH	Total AliphaticEPH	3.68	U		3.68	6.28	mg/kg	
Total AromaticEPH	Total AromaticEPH	3.76	U		3.76	6.28	mg/kg	
Total EPH	Total EPH	7.44	U		7.44	12.6	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:	Weston Solutions, Inc.	Date Collected:	10/29/24
Project:	RFP 872	Date Received:	10/29/24
Client Sample ID:	P001-CF15-01	SDG No.:	P4620
Lab Sample ID:	P4620-19	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	95.5
Sample Wt/Vol:	30.05 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FC067613.D	1	11/03/24	11/04/24	PB164618

CAS Number	Parameter		Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
Aliphatic C9-C12	Aliphatic C9-C12		0.40	U	0.40	1.05	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16		0.25	U	0.25	0.70	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21		0.31	U	0.31	1.05	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28		0.84	U	0.84	1.39	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40		1.88	U	1.88	2.09	mg/kg
SURROGATES							
3383-33-2	1-chlorooctadecane (SURR)		30.8		40 - 140	62%	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:	P4620-19	Acq On:	04 Nov 2024 22:05
Client Sample ID:	P001-CF15-01	Operator:	YP/AJ
Data file:	FC067613.D	Misc:	
Instrument:	FID_C	ALS Vial:	15
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.171	6.449	84585	0.624	300	ug/ml
Aliphatic C12-C16	6.450	9.838	0	0	200	ug/ml
Aliphatic C16-C21	9.839	13.196	0	0	300	ug/ml
Aliphatic C21-C28	13.197	16.847	0	0	400	ug/ml
Aliphatic C28-C40	16.848	21.685	0	0	600	ug/ml
Aliphatic EPH	3.171	21.685	84585	0.624		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	12.928	12.928	3329646	30.83		ug/ml
Aliphatic C9-C28	3.171	16.847	84585	0.624	1200	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC110424AL\
Data File : FC067613.D
Signal(s) : FID1A.ch
Acq On : 04 Nov 2024 22:05
Operator : YP/AJ
Sample : P4620-19
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
P001-CF15-01

Integration File: autoint1.e
Quant Time: Nov 05 03:45:25 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...	12.928	3329646	30.833 ug/ml
Spiked Amount 50.000		Recovery = 61.67%	
Target Compounds			

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

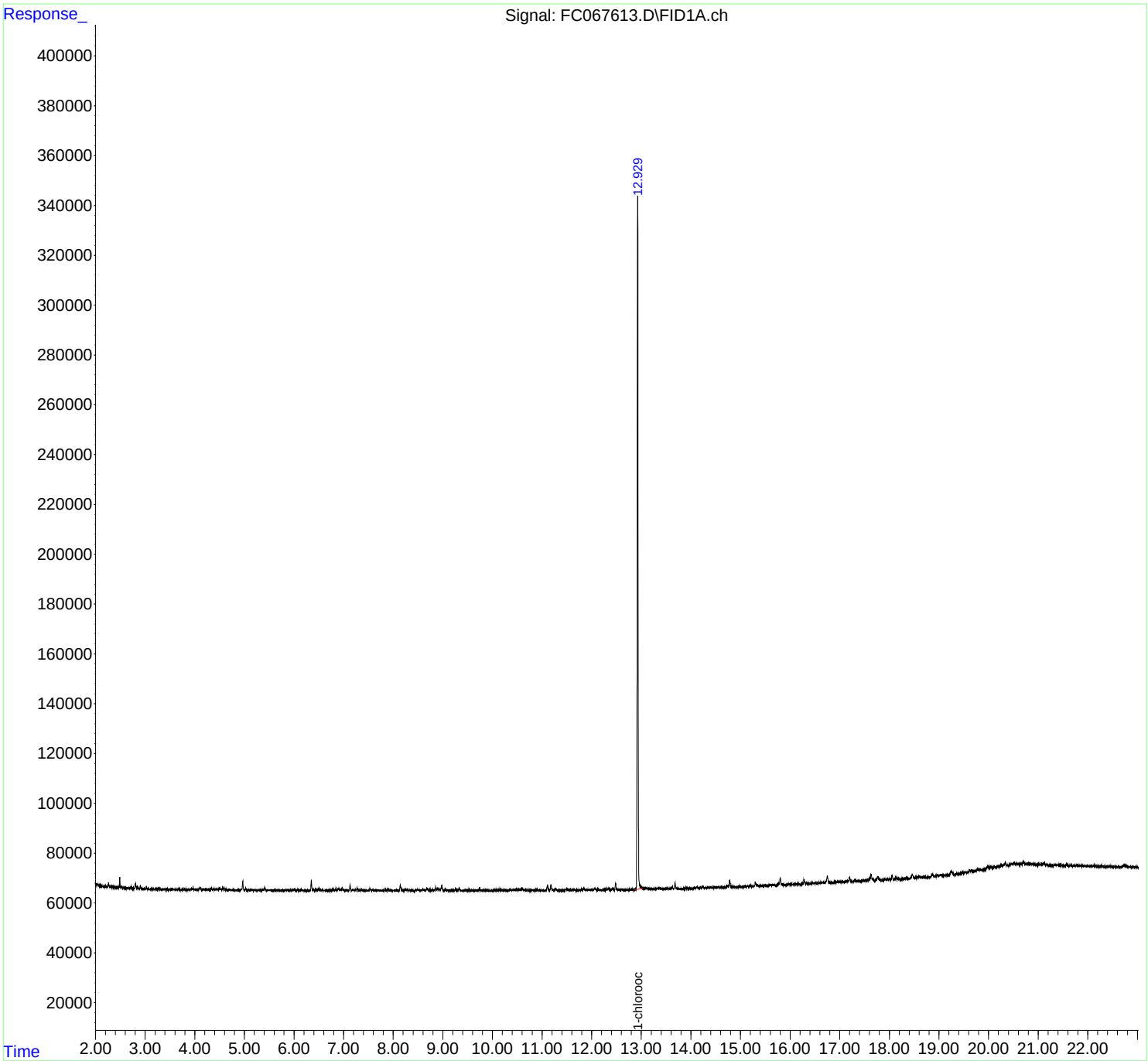
Quantitation Report (QT Reviewed)

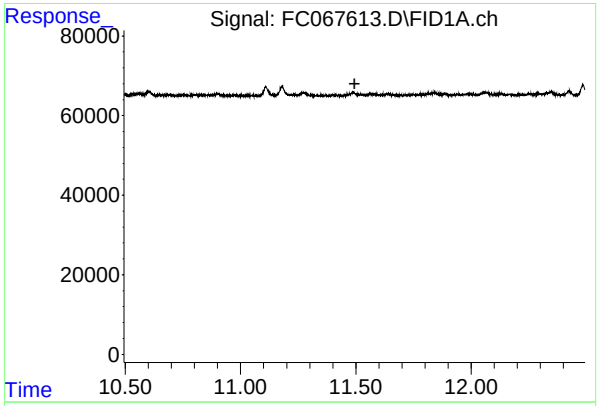
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC110424AL\
Data File : FC067613.D
Signal(s) : FID1A.ch
Acq On : 04 Nov 2024 22:05
Operator : YP/AJ
Sample : P4620-19
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
P001-CF15-01

Integration File: autoint1.e
Quant Time: Nov 05 03:45:25 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

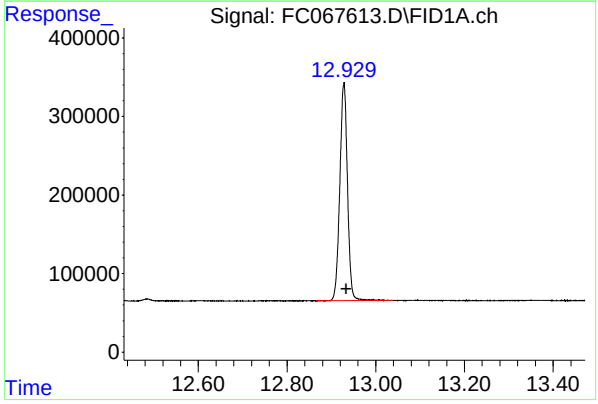




#9 ortho-Terphenyl (SURR)

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

Instrument :
FID_C
ClientSampleId :
P001-CF15-01



#12 1-chlorooctadecane (SURR)

R.T.: 12.928 min
Delta R.T.: -0.005 min
Response: 3329646
Conc: 30.83 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC110424AL\
Data File : FC067613.D
Signal(s) : FID1A.ch
Acq On : 04 Nov 2024 22:05
Sample : P4620-19
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	4.967	4.907	5.005	BB	3575	41870	1.26%	1.226%
2	6.350	6.297	6.392	BB	3964	42715	1.28%	1.251%
3	12.928	12.865	13.039	BB	277958	3329646	100.00%	97.523%
					Sum of corrected areas:	3414231		

Aliphatic EPH 102324.M Tue Nov 05 05:28:45 2024

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

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	10/29/24
Project:	RFP 872	Date Received:	10/29/24
Client Sample ID:	P001-CF15-01	SDG No.:	P4620
Lab Sample ID:	P4620-19	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	95.5
Sample Wt/Vol:	30.05 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FD048650.D	1	11/03/24	11/04/24	PB164618

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	0.31	U	0.31	0.70	mg/kg
Aromatic C12-C16	Aromatic C12-C16	0.36	U	0.36	1.05	mg/kg
Aromatic C16-C21	Aromatic C16-C21	1.00	U	1.00	1.74	mg/kg
Aromatic C21-C36	Aromatic C21-C36	2.09	U	2.09	2.79	mg/kg
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	51.3		40 - 140	103%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	52.0		40 - 140	104%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	27.1		40 - 140	54%	SPK: 50

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Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	P4620-19	Acq On:	04 Nov 2024 22:05
Client Sample ID:	P001-CF15-01	Operator:	YP/AJ
Data file:	FD048650.D	Misc:	
Instrument:	FID_D	ALS Vial:	65
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic EPH	4.093	18.080	3360197	21.249		ug/ml
2-Bromonaphthalene (SURR)	7.371	7.371	7779461	51.26		ug/ml
2-Flurobiphenyl (SURR)	8.220	8.220	5106476	52.01		ug/ml
ortho-Terphenyl (SURR)	11.254	11.254	4619932	27.12		ug/ml
Aromatic C10-C12	4.093	5.811	96420	0.547	200	ug/ml
Aromatic C12-C16	5.812	8.416	55023	0.31	300	ug/ml
Aromatic C16-C21	8.417	12.676	1395449	8.518	500	ug/ml
Aromatic C21-C36	12.677	18.080	1813305	11.874	800	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD110424AR\
Data File : FD048650.D
Signal(s) : FID2B.ch
Acq On : 04 Nov 2024 22:05
Operator : YP/AJ
Sample : P4620-19
Misc :
ALS Vial : 65 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
P001-CF15-01

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 11/06/2024
Supervised By :Ankita Jodhani 11/06/2024

Integration File: autoint1.e
Quant Time: Nov 05 02:08:46 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	7779461	51.255 ug/ml
Spiked Amount 50.000		Recovery = 102.51%	
6) S 2-Flurobiphenyl (SURR)	8.220	5106476	52.005 ug/ml
Spiked Amount 50.000 Range 0 - 131		Recovery = 104.01%	
11) S ortho-Terphenyl (SURR)	11.254	4619932	27.122 ug/mlm
Spiked Amount 50.000		Recovery = 54.24%	
Target Compounds			

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

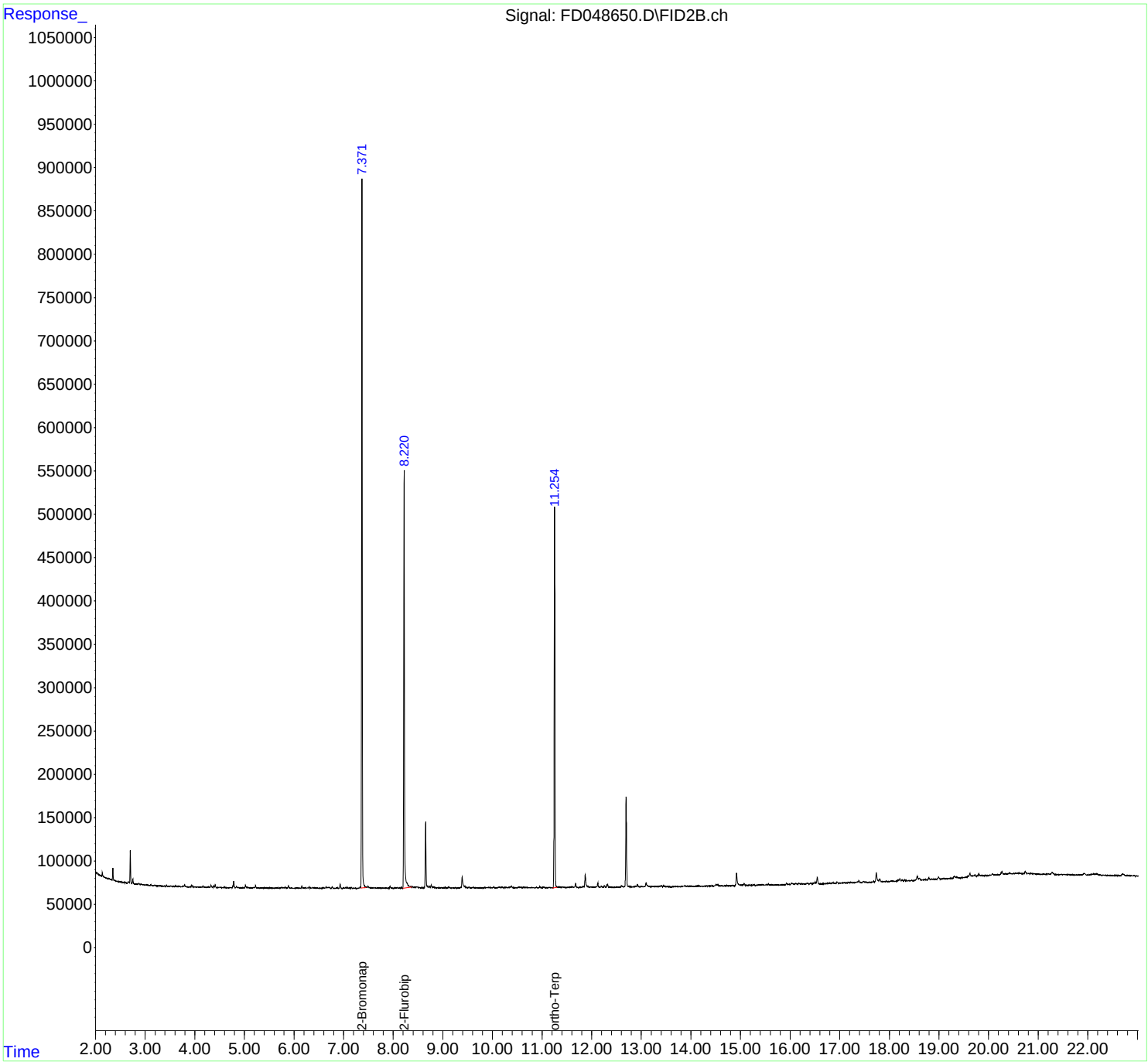
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD110424AR\
Data File : FD048650.D
Signal(s) : FID2B.ch
Acq On : 04 Nov 2024 22:05
Operator : YP/AJ
Sample : P4620-19
Misc :
ALS Vial : 65 Sample Multiplier: 1

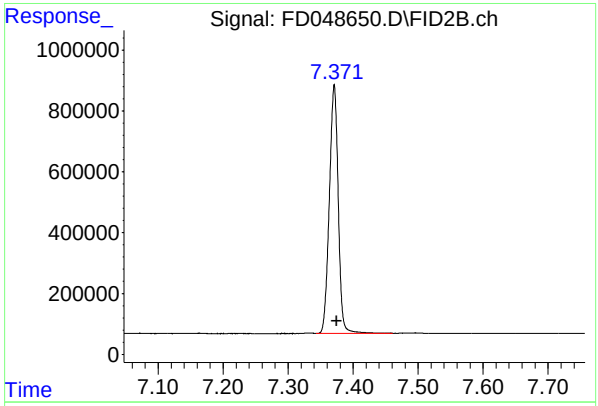
Instrument :
FID_D
ClientSampleId :
P001-CF15-01

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 11/06/2024
Supervised By :Ankita Jodhani 11/06/2024

Integration File: autoint1.e
Quant Time: Nov 05 02:08:46 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





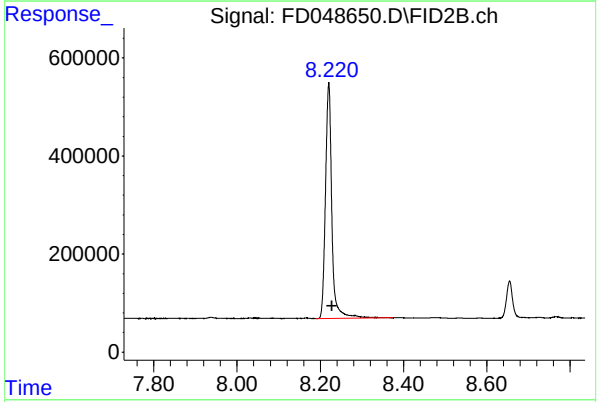
#4 2-Bromonaphthalene (SURR)

R.T.: 7.371 min
Delta R.T.: -0.004 min
Response: 7779461
Conc: 51.26 ug/ml

Instrument :
FID_D
ClientSampleId :
P001-CF15-01

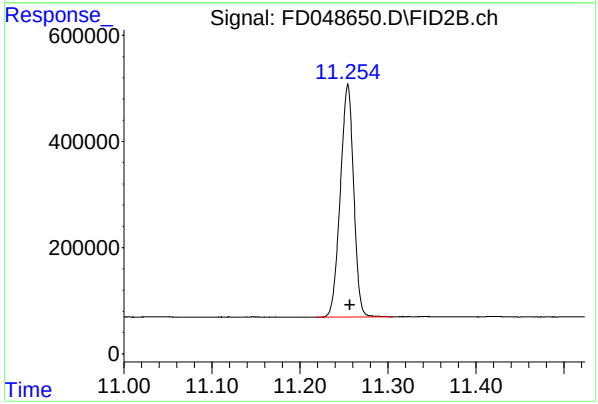
Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/06/2024
Supervised By :Ankita Jodhani 11/06/2024



#6 2-Flurobiphenyl (SURR)

R.T.: 8.220 min
Delta R.T.: -0.008 min
Response: 5106476
Conc: 52.01 ug/ml



#11 ortho-Terphenyl (SURR)

R.T.: 11.254 min
Delta R.T.: -0.003 min
Response: 4619932
Conc: 27.12 ug/ml m

Instrument :
FID_D
ClientSampleId :
P001-CF15-01

rteres

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/06/2024
Supervised By :Ankita Jodhani 11/06/2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD11042
Data File : FD048650.D
Signal(s) : FID2B.ch
Acq On : 04 Nov 2024 22:05
Sample : P4620-19
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	4.785	4.735	4.822	BV	7584	96420	1.24%	0.463%
2	6.931	6.905	6.965	BV	5048	55023	0.71%	0.264%
3	7.371	7.343	7.461	PV	816531	7779461	100.00%	37.332%
4	8.220	8.190	8.375	PV	484355	5106476	65.64%	24.505%
5	8.655	8.611	8.702	PV	75552	760682	9.78%	3.650%
6	9.391	9.370	9.505	VB	12735	230606	2.96%	1.107%
7	11.254	11.095	11.310	BB	438519	4592642	59.04%	22.039%
8	11.676	11.645	11.735	BV	4592	59028	0.76%	0.283%
9	11.871	11.848	11.971	VB	14592	214912	2.76%	1.031%
10	12.124	12.058	12.171	BV	4880	70992	0.91%	0.341%
11	12.315	12.288	12.360	PB	3495	59229	0.76%	0.284%
12	12.695	12.638	12.731	PV	103647	1225997	15.76%	5.883%
13	13.098	13.008	13.178	BV	4649	85166	1.09%	0.409%
14	14.918	14.875	15.008	PV	14524	246074	3.16%	1.181%
15	16.547	16.521	16.625	VV	7921	119242	1.53%	0.572%
16	17.737	17.701	17.781	BV	9477	136826	1.76%	0.657%

Sum of corrected areas: 20838775

Aromatic EPH 102324.M Tue Nov 05 03:38:42 2024

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Fax : 908 789 8922

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	10/29/24
Project:	RFP 872	Date Received:	10/29/24
Client Sample ID:	P001-CF15-01	SDG No.:	P4620
Lab Sample ID:	P4620-20	Matrix:	Water
Analytical Method:	NJEPH	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :	SW3510		

Prep Date :	Date Analyzed :	Prep Batch ID
11/03/24 08:20	11/04/24 15:57	PB164637

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	5.76	U	1	5.76	30.0	ug/l	FG014645.D
Aliphatic C12-C16	Aliphatic C12-C16	3.61	U	1	3.61	20.0	ug/l	FG014645.D
Aliphatic C16-C21	Aliphatic C16-C21	5.14	U	1	5.14	30.0	ug/l	FG014645.D
Aliphatic C21-C28	Aliphatic C21-C28	8.97	U	1	8.97	40.0	ug/l	FG014645.D
Aliphatic C28-C40	Aliphatic C28-C40	17.0	U	1	17.0	60.0	ug/l	FG014645.D
Aromatic C10-C12	Aromatic C10-C12	3.32	U	1	3.32	20.0	ug/l	FF014915.D
Aromatic C12-C16	Aromatic C12-C16	3.69	U	1	3.69	30.0	ug/l	FF014915.D
Aromatic C16-C21	Aromatic C16-C21	59.0		1	12.7	50.0	ug/l	FF014915.D
Aromatic C21-C36	Aromatic C21-C36	25.2	U	1	25.2	80.0	ug/l	FF014915.D
Total AliphaticEPH	Total AliphaticEPH	40.5	U		40.5	180	ug/l	
Total AromaticEPH	Total AromaticEPH	59.0	J		44.9	180	ug/l	
Total EPH	Total EPH	85.4	U		85.4	360	ug/l	

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

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

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Fax : 908 789 8922

Report of Analysis

Client:	Weston Solutions, Inc.		Date Collected:	10/29/24	
Project:	RFP 872		Date Received:	10/29/24	
Client Sample ID:	P001-CF15-01		SDG No.:	P4620	
Lab Sample ID:	P4620-20		Matrix:	Water	
Analytical Method:	NJEPH		% Solid:	0	
Sample Wt/Vol:	1000	Units: mL	Final Vol:	2000	uL
Soil Aliquot Vol:		uL	Test:	EPH	
Prep Method :	SW3510				

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FF014915.D	1	11/03/24	11/04/24	PB164637

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	3.32	U	3.32	20.0	ug/l
Aromatic C12-C16	Aromatic C12-C16	3.69	U	3.69	30.0	ug/l
Aromatic C16-C21	Aromatic C16-C21	59.0		12.7	50.0	ug/l
Aromatic C21-C36	Aromatic C21-C36	25.2	U	25.2	80.0	ug/l
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	56.2		40 - 140	112%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	55.4		40 - 140	111%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	56.5		40 - 140	113%	SPK: 50

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Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	P4620-20	Acq On:	04 Nov 2024 15:57
Client Sample ID:	P001-CF15-01	Operator:	YP\AJ
Data file:	FF014915.D	Misc:	
Instrument:	FID_F	ALS Vial:	70
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.508	6.372	566645	3.63	200	ug/ml
Aromatic C12-C16	6.373	9.064	502947	3.151	300	ug/ml
Aromatic C16-C21	9.065	13.375	4585459	29.51	500	ug/ml
Aromatic C21-C36	13.376	18.817	530349	3.573	800	ug/ml
Aromatic EPH	4.508	18.817	6185400	39.864		ug/ml
ortho-Terphenyl (SURR)	11.930	11.930	9035540	56.48		ug/ml
2-Bromonaphthalene (SURR)	7.994	7.994	7832214	56.17		ug/ml
2-Flurobiphenyl (SURR)	8.867	8.867	5228162	55.44		ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF110424AR\
Data File : FF014915.D
Signal(s) : FID2B.ch
Acq On : 04 Nov 2024 15:57
Operator : YP\AJ
Sample : P4620-20
Misc :
ALS Vial : 70 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
P001-CF15-01

Integration File: autoint1.e
Quant Time: Nov 05 01:26:51 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 102124.M
Quant Title : GC Extractables
QLast Update : Tue Oct 22 04:14:53 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...	7.994	7832214	56.167 ug/ml
Spiked Amount 50.000		Recovery = 112.33%	
6) S 2-Flurobiphenyl (SURR)	8.867	5228162	55.436 ug/ml
Spiked Amount 50.000 Range 0 - 131		Recovery = 110.87%	
11) S ortho-Terphenyl (SURR)	11.930	9035540	56.480 ug/ml
Spiked Amount 50.000		Recovery = 112.96%	
Target Compounds			

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

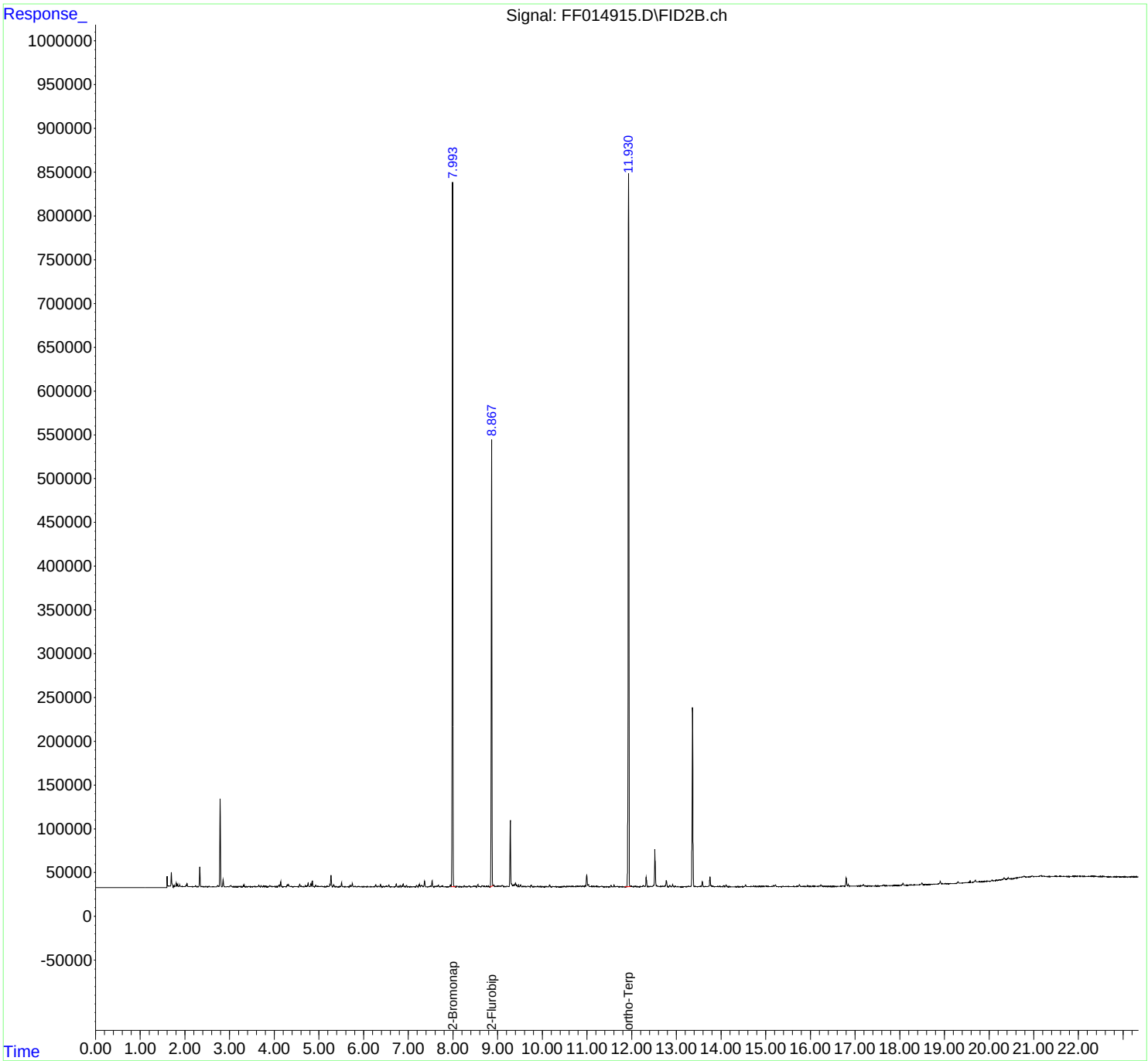
Quantitation Report (QT Reviewed)

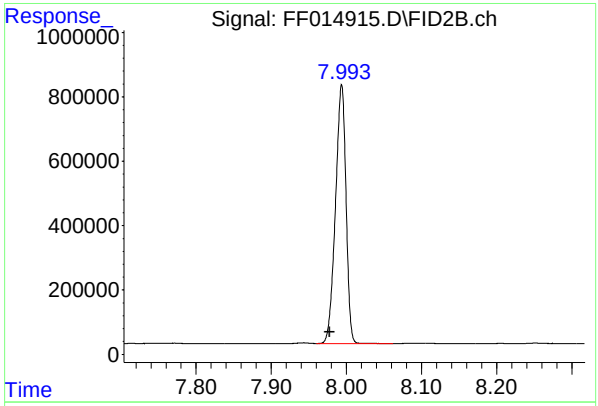
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF110424AR\
Data File : FF014915.D
Signal(s) : FID2B.ch
Acq On : 04 Nov 2024 15:57
Operator : YP\AJ
Sample : P4620-20
Misc :
ALS Vial : 70 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
P001-CF15-01

Integration File: autoint1.e
Quant Time: Nov 05 01:26:51 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 102124.M
Quant Title : GC Extractables
QLast Update : Tue Oct 22 04:14:53 2024
Response via : Initial Calibration
Integrator: ChemStation

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

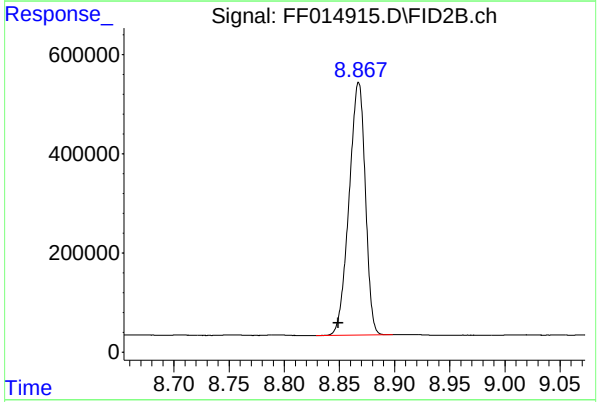




#4 2-Bromonaphthalene (SURR)

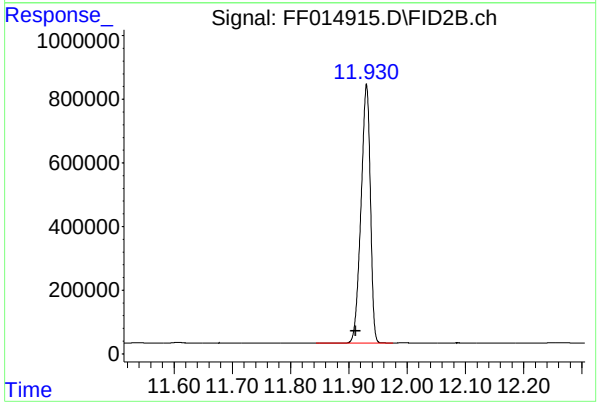
R.T.: 7.994 min
Delta R.T.: 0.016 min
Response: 7832214
Conc: 56.17 ug/ml

Instrument :
FID_F
ClientSampleId :
P001-CF15-01



#6 2-Flurobiphenyl (SURR)

R.T.: 8.867 min
Delta R.T.: 0.018 min
Response: 5228162
Conc: 55.44 ug/ml



#11 ortho-Terphenyl (SURR)

R.T.: 11.930 min
Delta R.T.: 0.018 min
Response: 9035540
Conc: 56.48 ug/ml

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF110424AR\
Data File : FF014915.D
Signal(s) : FID2B.ch
Acq On : 04 Nov 2024 15:57
Sample : P4620-20
Misc :
ALS Vial : 70 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 102124.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	4.571	4.524	4.592	BV	2986	28904	0.32%	0.102%
2	4.759	4.714	4.782	VV	4379	55226	0.61%	0.195%
3	4.821	4.782	4.837	VV	3350	36145	0.40%	0.128%
4	4.854	4.837	4.900	VB	6901	69681	0.77%	0.246%
5	4.928	4.907	4.947	BV	1766	17811	0.20%	0.063%
6	5.271	5.217	5.304	BV	13129	177009	1.96%	0.626%
7	5.332	5.304	5.367	PV	2407	31342	0.35%	0.111%
8	5.508	5.409	5.550	BV	4959	58871	0.65%	0.208%
9	5.704	5.682	5.722	BV	1891	19397	0.21%	0.069%
10	5.749	5.722	5.787	VV	3804	43906	0.49%	0.155%
11	6.272	6.177	6.317	BV	2611	28353	0.31%	0.100%
12	6.379	6.357	6.402	VB	2847	28330	0.31%	0.100%
13	6.567	6.544	6.600	VV	2445	28506	0.32%	0.101%
14	6.732	6.600	6.759	PV	3528	47095	0.52%	0.167%
15	6.886	6.868	6.909	VV	3467	38504	0.43%	0.136%
16	6.961	6.940	6.982	PV	1977	20674	0.23%	0.073%
17	7.187	7.162	7.210	BV	1855	21881	0.24%	0.077%
18	7.242	7.210	7.277	VV	2371	44913	0.50%	0.159%
19	7.293	7.277	7.337	VV	1924	40206	0.44%	0.142%
20	7.367	7.337	7.415	VB	6669	81490	0.90%	0.288%
21	7.535	7.515	7.563	VV	7141	78689	0.87%	0.278%
22	7.675	7.659	7.698	VV	1893	23138	0.26%	0.082%
23	7.943	7.900	7.960	BV	2114	19480	0.22%	0.069%
24	7.994	7.960	8.062	PV	806941	7832214	86.68%	27.694%
25	8.557	8.524	8.579	PV	2610	30041	0.33%	0.106%
26	8.867	8.829	8.898	BV	511342	5228162	57.86%	18.486%
27	9.285	9.247	9.350	BV	75433	838592	9.28%	2.965%
28	9.363	9.350	9.376	VV	2382	28258	0.31%	0.100%
29	9.401	9.376	9.423	VV	4484	73309	0.81%	0.259%
30	9.472	9.455	9.492	VV	2074	10751	0.12%	0.038%
31	9.515	9.492	9.549	PV	2114	29958	0.33%	0.106%
32	9.750	9.705	9.794	BV	1903	24506	0.27%	0.087%
33	10.164	10.122	10.214	BB	2217	30345	0.34%	0.107%
34	10.994	10.972	11.017	VV	13029	146571	1.62%	0.518%
35	11.032	11.017	11.075	VV	2412	34372	0.38%	0.122%
36	11.538	11.479	11.560	BV	1695	22495	0.25%	0.080%

rteres

37	11.607	11.560	11.640	VV	2468	33049	0.37%	0.117%
38	11.930	11.844	11.976	BV	815345	9035540	100.00%	31.949%
39	12.326	12.295	12.352	VV	10943	128332	1.42%	0.454%
40	12.520	12.455	12.624	VV	42716	555853	6.15%	1.965%
41	12.775	12.624	12.829	VB	7305	140035	1.55%	0.495%
42	12.854	12.829	12.875	BV	1683	21941	0.24%	0.078%
43	12.915	12.875	12.942	PV	2563	30612	0.34%	0.108%
44	13.361	13.297	13.394	PV	204574	2436480	26.97%	8.615%
45	13.580	13.472	13.622	BV	5856	83379	0.92%	0.295%
46	13.752	13.622	13.807	PB	10990	121109	1.34%	0.428%
47	14.113	14.087	14.157	PB	2318	29009	0.32%	0.103%
48	14.548	14.479	14.589	BB	2127	28829	0.32%	0.102%
49	15.215	15.194	15.262	VB	2116	31102	0.34%	0.110%
50	15.754	15.684	15.810	BB	2156	34211	0.38%	0.121%
51	16.801	16.757	16.829	BV	9373	117902	1.30%	0.417%
52	18.073	17.985	18.109	BB	2536	44805	0.50%	0.158%
53	18.497	18.294	18.524	BB	2139	40003	0.44%	0.141%

Sum of corrected areas: 28281316

Aromatic EPH 102124.M Tue Nov 05 01:58:31 2024

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

Report of Analysis

Client:	Weston Solutions, Inc.		Date Collected:	10/29/24	
Project:	RFP 872		Date Received:	10/29/24	
Client Sample ID:	P001-CF15-01		SDG No.:	P4620	
Lab Sample ID:	P4620-20		Matrix:	Water	
Analytical Method:	NJEPH		% Solid:	0	
Sample Wt/Vol:	1000	Units: mL	Final Vol:	2000	uL
Soil Aliquot Vol:		uL	Test:	EPH	
Prep Method :	SW3510				

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FG014645.D	1	11/03/24	11/04/24	PB164637

CAS Number	Parameter		Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
Aliphatic C9-C12	Aliphatic C9-C12		5.76	U	5.76	30.0	ug/l
Aliphatic C12-C16	Aliphatic C12-C16		3.61	U	3.61	20.0	ug/l
Aliphatic C16-C21	Aliphatic C16-C21		5.14	U	5.14	30.0	ug/l
Aliphatic C21-C28	Aliphatic C21-C28		8.97	U	8.97	40.0	ug/l
Aliphatic C28-C40	Aliphatic C28-C40		17.0	U	17.0	60.0	ug/l
SURROGATES							
3383-33-2	1-chlorooctadecane (SURR)		42.5		40 - 140	85%	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:	P4620-20	Acq On:	04 Nov 2024 15:57
Client Sample ID:	P001-CF15-01	Operator:	YP\AJ
Data file:	FG014645.D	Misc:	
Instrument:	FID_G	ALS Vial:	20
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.228	6.849	40825	0.311	300	ug/ml
Aliphatic C12-C16	6.850	10.292	35549	0.262	200	ug/ml
Aliphatic C16-C21	10.293	13.665	87335	0.618	300	ug/ml
Aliphatic C21-C28	13.666	17.329	0	0	400	ug/ml
Aliphatic C28-C40	17.330	22.266	0	0	600	ug/ml
Aliphatic EPH	3.228	22.266	163709	1.191		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	13.397	13.397	5217176	42.49		ug/ml
Aliphatic C9-C28	3.228	17.329	163709	1.191	1200	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG110424AL\
Data File : FG014645.D
Signal(s) : FID1A.ch
Acq On : 04 Nov 2024 15:57
Operator : YP\AJ
Sample : P4620-20
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
P001-CF15-01

Integration File: autoint1.e
Quant Time: Nov 05 00:37:33 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 102124.M
Quant Title : GC Extractables
QLast Update : Tue Oct 22 06:49:54 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...	13.397	5217176	42.488 ug/ml
Spiked Amount 50.000		Recovery = 84.98%	
Target Compounds			

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

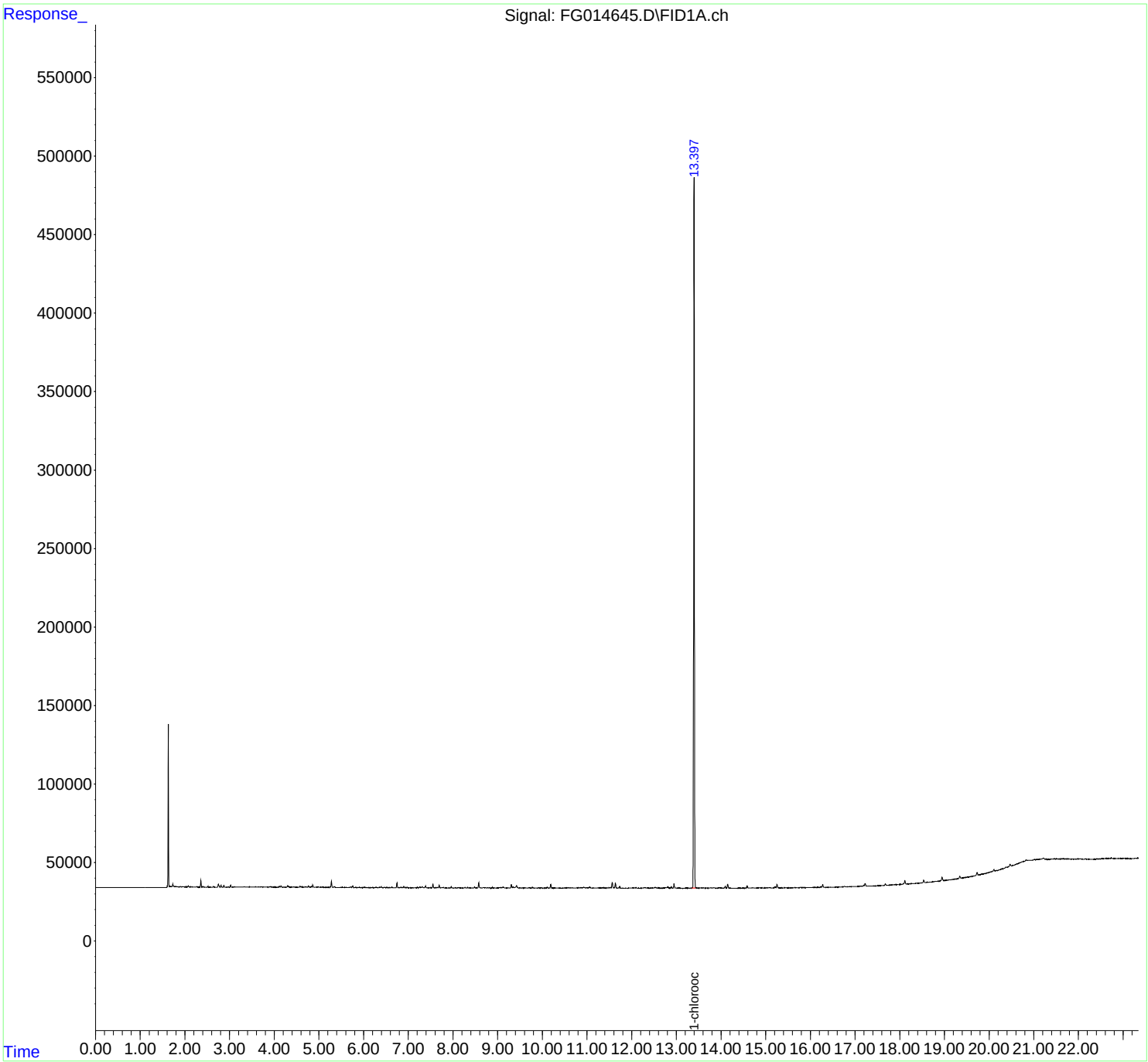
Quantitation Report (QT Reviewed)

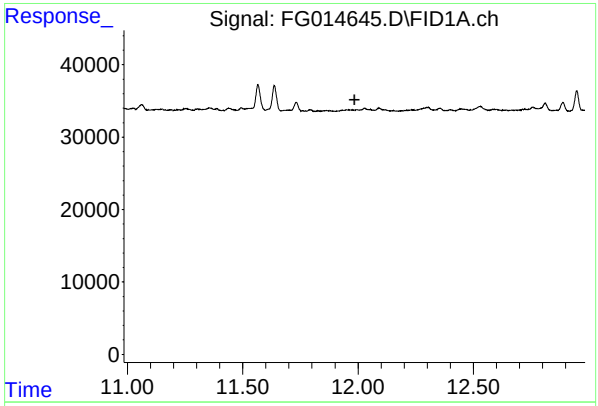
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG110424AL\
Data File : FG014645.D
Signal(s) : FID1A.ch
Acq On : 04 Nov 2024 15:57
Operator : YP\AJ
Sample : P4620-20
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
P001-CF15-01

Integration File: autoint1.e
Quant Time: Nov 05 00:37:33 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 102124.M
Quant Title : GC Extractables
QLast Update : Tue Oct 22 06:49:54 2024
Response via : Initial Calibration
Integrator: ChemStation

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

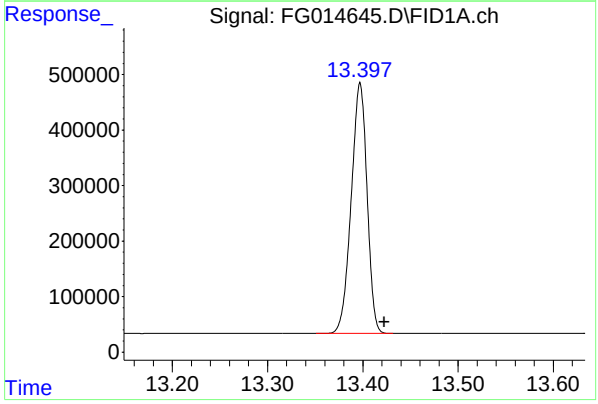




#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.984 min
Response: 0
Conc: N.D.

Instrument :
FID_G
ClientSampleId :
P001-CF15-01



#12 1-chlorooctadecane (SURR)

R.T.: 13.397 min
Delta R.T.: -0.026 min
Response: 5217176
Conc: 42.49 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG110424AL\
Data File : FG014645.D
Signal(s) : FID1A.ch
Acq On : 04 Nov 2024 15:57
Sample : P4620-20
Misc :
ALS Vial : 20 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 102124.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	5.280	5.262	5.313	BB	3827	40825	0.78%	0.759%
2	8.578	8.553	8.603	BB	3290	35549	0.68%	0.661%
3	11.566	11.541	11.598	BB	3435	43417	0.83%	0.807%
4	11.637	11.603	11.667	BB	3458	43918	0.84%	0.816%
5	13.397	13.351	13.432	BB	451919	5217176	100.00%	96.958%

Sum of corrected areas: 5380885

Aliphatic EPH 102124.M Tue Nov 05 01:19:24 2024

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

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	10/29/24
Project:	RFP 872	Date Received:	10/29/24
Client Sample ID:	P001-CF16-01	SDG No.:	P4620
Lab Sample ID:	P4620-22	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	95.8
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
11/03/24 08:45	11/04/24 22:42	PB164618

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	0.40	U	1	0.40	1.04	mg/kg	FC067614.D
Aliphatic C12-C16	Aliphatic C12-C16	0.25	U	1	0.25	0.70	mg/kg	FC067614.D
Aliphatic C16-C21	Aliphatic C16-C21	0.31	U	1	0.31	1.04	mg/kg	FC067614.D
Aliphatic C21-C28	Aliphatic C21-C28	0.83	U	1	0.83	1.39	mg/kg	FC067614.D
Aliphatic C28-C40	Aliphatic C28-C40	1.88	U	1	1.88	2.09	mg/kg	FC067614.D
Aromatic C10-C12	Aromatic C10-C12	0.31	U	1	0.31	0.70	mg/kg	FD048651.D
Aromatic C12-C16	Aromatic C12-C16	0.36	U	1	0.36	1.04	mg/kg	FD048651.D
Aromatic C16-C21	Aromatic C16-C21	1.00	U	1	1.00	1.74	mg/kg	FD048651.D
Aromatic C21-C36	Aromatic C21-C36	2.09	U	1	2.09	2.78	mg/kg	FD048651.D
Total AliphaticEPH	Total AliphaticEPH	3.67	U		3.67	6.25	mg/kg	
Total AromaticEPH	Total AromaticEPH	3.76	U		3.76	6.25	mg/kg	
Total EPH	Total EPH	7.43	U		7.43	12.5	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:	Weston Solutions, Inc.	Date Collected:	10/29/24
Project:	RFP 872	Date Received:	10/29/24
Client Sample ID:	P001-CF16-01	SDG No.:	P4620
Lab Sample ID:	P4620-22	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	95.8
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
FC067614.D	1	11/03/24	11/04/24	PB164618

CAS Number	Parameter		Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
Aliphatic C9-C12	Aliphatic C9-C12		0.40	U	0.40	1.04	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16		0.25	U	0.25	0.70	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21		0.31	U	0.31	1.04	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28		0.83	U	0.83	1.39	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40		1.88	U	1.88	2.09	mg/kg
SURROGATES							
3383-33-2	1-chlorooctadecane (SURR)		43.1		40 - 140	86%	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:	P4620-22	Acq On:	04 Nov 2024 22:42
Client Sample ID:	P001-CF16-01	Operator:	YP/AJ
Data file:	FC067614.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	3.171	6.449	0	0	300	ug/ml
Aliphatic C12-C16	6.450	9.838	0	0	200	ug/ml
Aliphatic C16-C21	9.839	13.196	0	0	300	ug/ml
Aliphatic C21-C28	13.197	16.847	0	0	400	ug/ml
Aliphatic C28-C40	16.848	21.685	0	0	600	ug/ml
Aliphatic EPH	3.171	21.685	0	0		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	12.929	12.929	4651410	43.07		ug/ml
Aliphatic C9-C28	3.171	16.847	0	0	1200	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC110424AL\
Data File : FC067614.D
Signal(s) : FID1A.ch
Acq On : 04 Nov 2024 22:42
Operator : YP/AJ
Sample : P4620-22
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
P001-CF16-01

Integration File: autoint1.e
Quant Time: Nov 05 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			
12) S 1-chlorooctadecane (S...	12.929	4651410	43.073 ug/ml
Spiked Amount 50.000		Recovery = 86.15%	
Target Compounds			

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

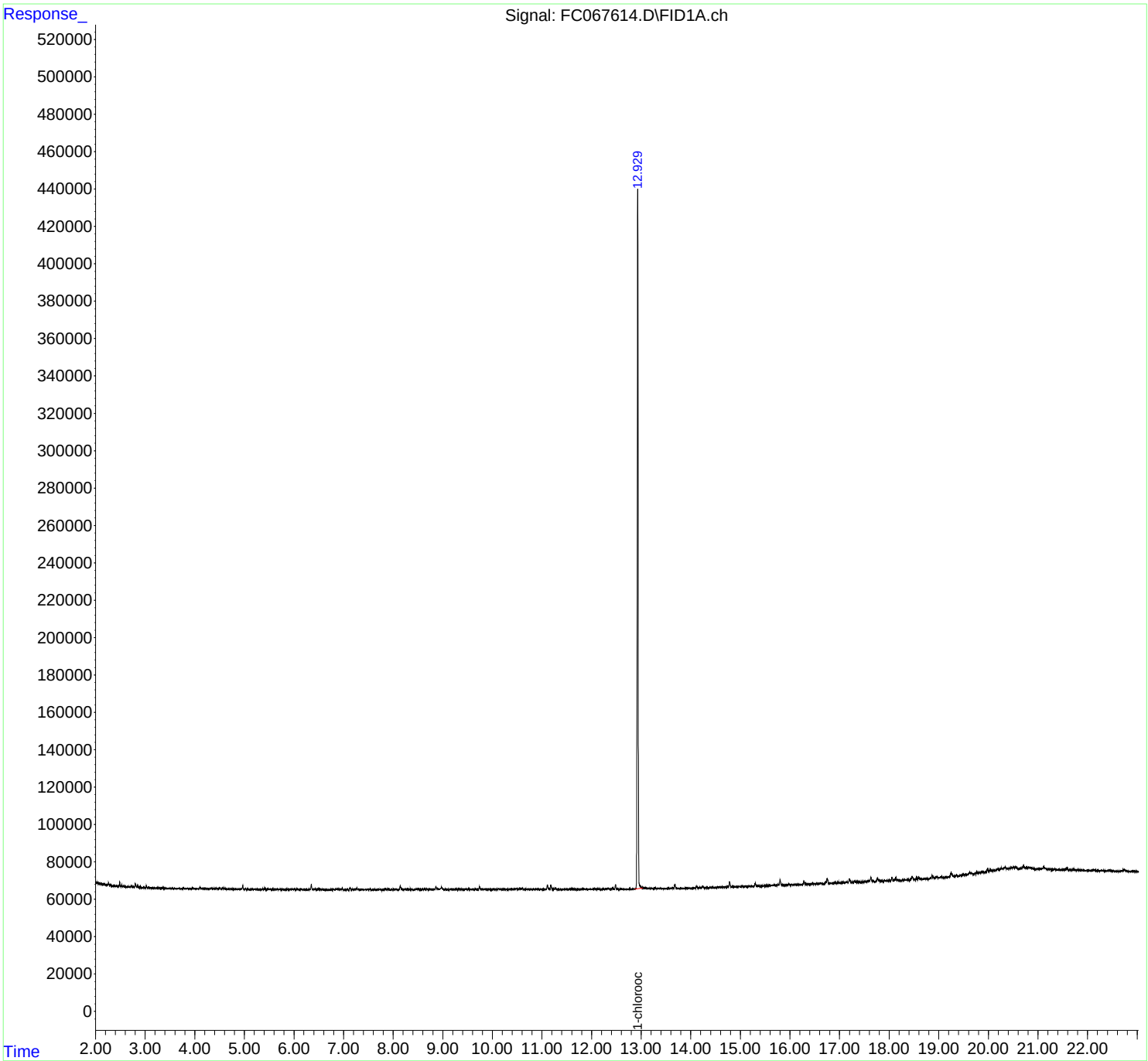
Quantitation Report (QT Reviewed)

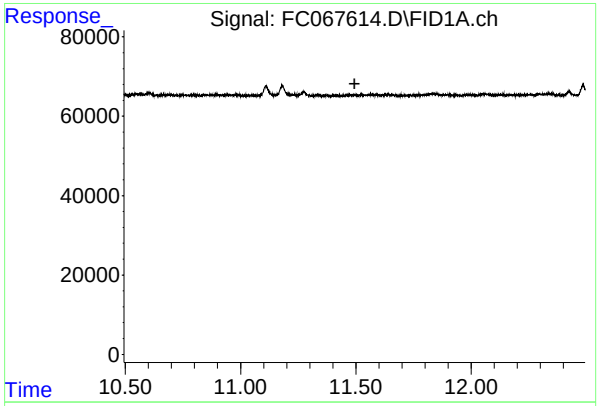
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC110424AL\
Data File : FC067614.D
Signal(s) : FID1A.ch
Acq On : 04 Nov 2024 22:42
Operator : YP/AJ
Sample : P4620-22
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
P001-CF16-01

Integration File: autoint1.e
Quant Time: Nov 05 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

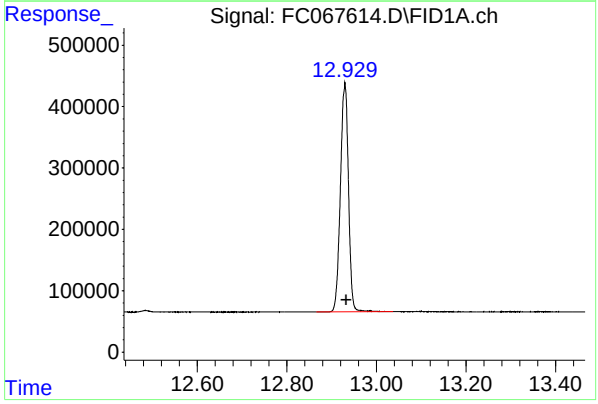




#9 ortho-Terphenyl (SURR)

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

Instrument :
FID_C
ClientSampleId :
P001-CF16-01



#12 1-chlorooctadecane (SURR)

R.T.: 12.929 min
Delta R.T.: -0.004 min
Response: 4651410
Conc: 43.07 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC110424AL\
Data File : FC067614.D
Signal(s) : FID1A.ch
Acq On : 04 Nov 2024 22:42
Sample : P4620-22
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	12.929	12.865	13.037	BB	368089	4651410	100.00%	100.000%

Sum of corrected areas: 4651410

Aliphatic EPH 102324.M Tue Nov 05 05:28:56 2024

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

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	10/29/24
Project:	RFP 872	Date Received:	10/29/24
Client Sample ID:	P001-CF16-01	SDG No.:	P4620
Lab Sample ID:	P4620-22	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	95.8
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
FD048651.D	1	11/03/24	11/04/24	PB164618

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	0.31	U	0.31	0.70	mg/kg
Aromatic C12-C16	Aromatic C12-C16	0.36	U	0.36	1.04	mg/kg
Aromatic C16-C21	Aromatic C16-C21	1.00	U	1.00	1.74	mg/kg
Aromatic C21-C36	Aromatic C21-C36	2.09	U	2.09	2.78	mg/kg
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	42.7		40 - 140	85%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	43.5		40 - 140	87%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	35.2		40 - 140	70%	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:	P4620-22	Acq On:	04 Nov 2024 22:42
Client Sample ID:	P001-CF16-01	Operator:	YP/AJ
Data file:	FD048651.D	Misc:	
Instrument:	FID_D	ALS Vial:	66
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic EPH	4.093	18.080	3125302	19.996		ug/ml
2-Bromonaphthalene (SURR)	7.370	7.370	6486550	42.74		ug/ml
2-Flurobiphenyl (SURR)	8.220	8.220	4270030	43.49		ug/ml
ortho-Terphenyl (SURR)	11.255	11.255	5998394	35.21		ug/ml
Aromatic C10-C12	4.093	5.811	0	0	200	ug/ml
Aromatic C12-C16	5.812	8.416	0	0	300	ug/ml
Aromatic C16-C21	8.417	12.676	1054829	6.438	500	ug/ml
Aromatic C21-C36	12.677	18.080	2070473	13.558	800	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD110424AR\
Data File : FD048651.D
Signal(s) : FID2B.ch
Acq On : 04 Nov 2024 22:42
Operator : YP/AJ
Sample : P4620-22
Misc :
ALS Vial : 66 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
P001-CF16-01

Integration File: autoint1.e
Quant Time: Nov 05 02:08:55 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	6486550	42.737 ug/ml
Spiked Amount 50.000		Recovery =	85.47%
6) S 2-Flurobiphenyl (SURR)	8.220	4270030	43.487 ug/ml
Spiked Amount 50.000 Range	0 - 131	Recovery =	86.97%
11) S ortho-Terphenyl (SURR)	11.255	5998394	35.214 ug/ml
Spiked Amount 50.000		Recovery =	70.43%
Target Compounds			

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

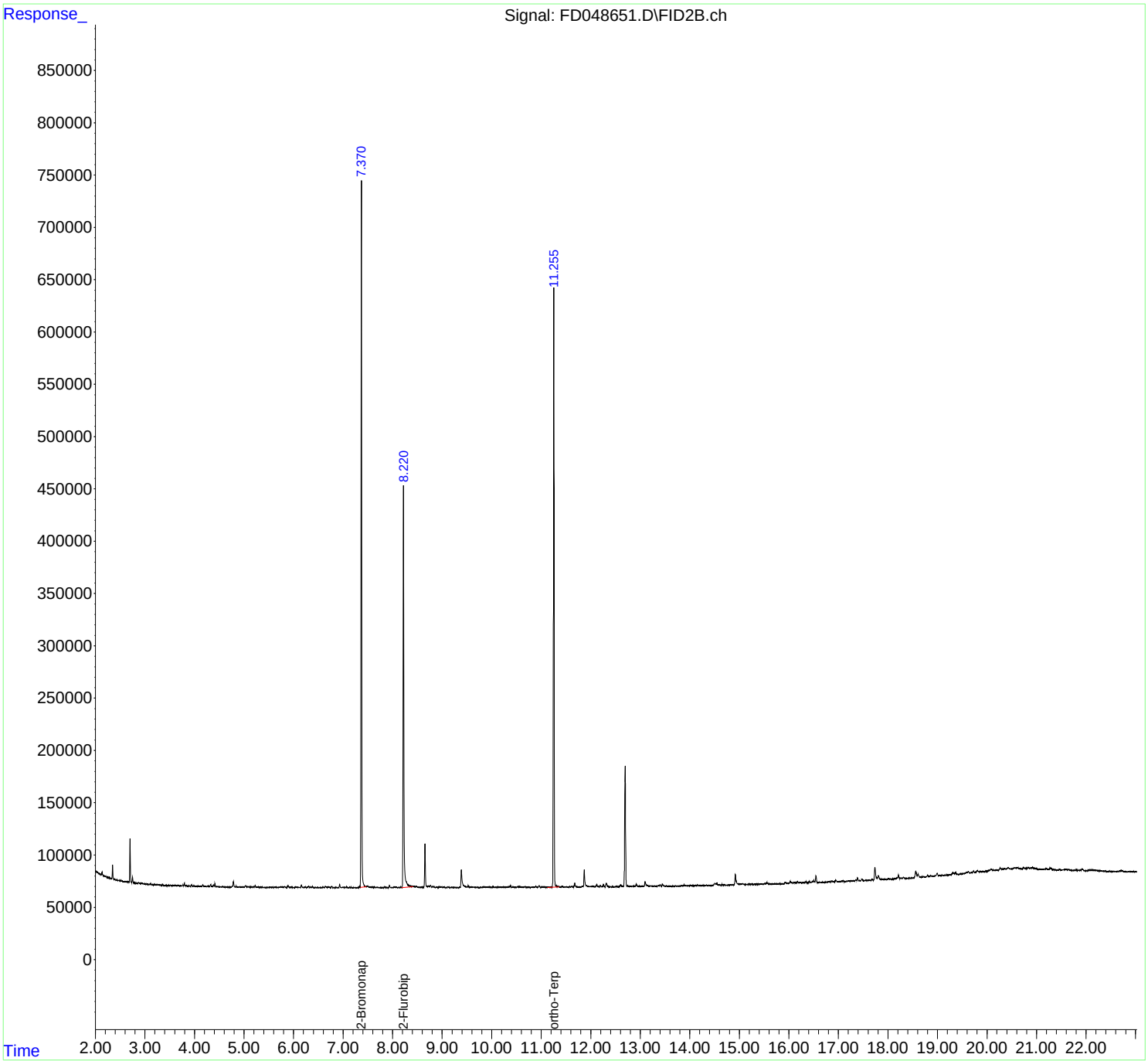
Quantitation Report (QT Reviewed)

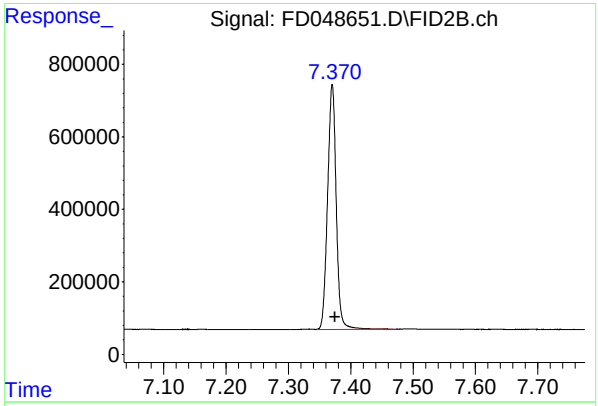
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD110424AR\
Data File : FD048651.D
Signal(s) : FID2B.ch
Acq On : 04 Nov 2024 22:42
Operator : YP/AJ
Sample : P4620-22
Misc :
ALS Vial : 66 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
P001-CF16-01

Integration File: autoint1.e
Quant Time: Nov 05 02:08:55 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

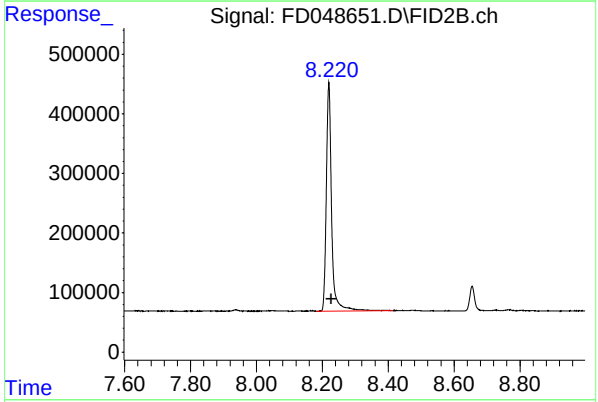




#4 2-Bromonaphthalene (SURR)

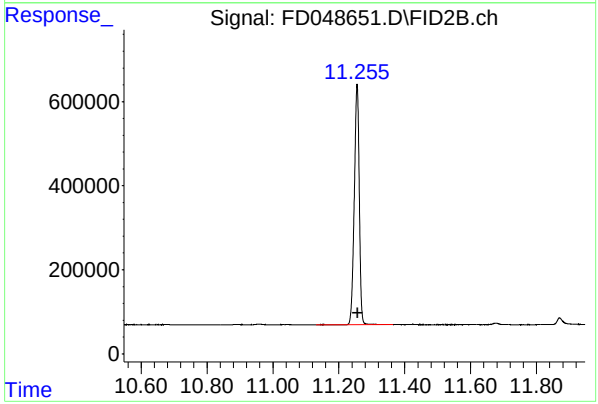
R.T.: 7.370 min
Delta R.T.: -0.004 min
Response: 6486550
Conc: 42.74 ug/ml

Instrument :
FID_D
ClientSampleId :
P001-CF16-01



#6 2-Flurobiphenyl (SURR)

R.T.: 8.220 min
Delta R.T.: -0.008 min
Response: 4270030
Conc: 43.49 ug/ml



#11 ortho-Terphenyl (SURR)

R.T.: 11.255 min
Delta R.T.: -0.002 min
Response: 5998394
Conc: 35.21 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD110424AR\
Data File : FD048651.D
Signal(s) : FID2B.ch
Acq On : 04 Nov 2024 22:42
Sample : P4620-22
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	7.370	7.344	7.468	VV	677420	6486550	100.00%	32.628%
2	8.220	8.181	8.414	PV	383133	4270030	65.83%	21.479%
3	8.655	8.561	8.701	BV	41251	412055	6.35%	2.073%
4	9.389	9.281	9.508	BV	17006	280517	4.32%	1.411%
5	11.255	11.131	11.364	BB	568304	5998394	92.47%	30.173%
6	11.677	11.654	11.744	BB	3818	54341	0.84%	0.273%
7	11.871	11.748	11.971	BV	16212	249516	3.85%	1.255%
8	12.313	12.281	12.358	PB	3263	58400	0.90%	0.294%
9	12.695	12.644	12.781	VB	115004	1369816	21.12%	6.890%
10	13.098	13.001	13.171	BB	4312	65143	1.00%	0.328%
11	14.918	14.868	15.001	BV	10023	172420	2.66%	0.867%
12	16.545	16.521	16.611	VB	6397	89968	1.39%	0.453%
13	17.385	17.120	17.421	PV	3039	97432	1.50%	0.490%
14	17.736	17.701	17.785	BV	11974	208235	3.21%	1.047%
15	17.807	17.785	17.868	VB	3667	67459	1.04%	0.339%

Sum of corrected areas: 19880276

Aromatic EPH 102324.M Tue Nov 05 03:38:53 2024

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

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	10/29/24
Project:	RFP 872	Date Received:	10/29/24
Client Sample ID:	P001-CF16-01	SDG No.:	P4620
Lab Sample ID:	P4620-25	Matrix:	Water
Analytical Method:	NJEPH	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :	SW3510		

Prep Date :	Date Analyzed :	Prep Batch ID
11/03/24 08:20	11/04/24 16:25	PB164637

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	5.76	U	1	5.76	30.0	ug/l	FG014646.D
Aliphatic C12-C16	Aliphatic C12-C16	3.61	U	1	3.61	20.0	ug/l	FG014646.D
Aliphatic C16-C21	Aliphatic C16-C21	5.14	U	1	5.14	30.0	ug/l	FG014646.D
Aliphatic C21-C28	Aliphatic C21-C28	8.97	U	1	8.97	40.0	ug/l	FG014646.D
Aliphatic C28-C40	Aliphatic C28-C40	17.0	U	1	17.0	60.0	ug/l	FG014646.D
Aromatic C10-C12	Aromatic C10-C12	3.32	U	1	3.32	20.0	ug/l	FF014916.D
Aromatic C12-C16	Aromatic C12-C16	3.69	U	1	3.69	30.0	ug/l	FF014916.D
Aromatic C16-C21	Aromatic C16-C21	43.7	J	1	12.7	50.0	ug/l	FF014916.D
Aromatic C21-C36	Aromatic C21-C36	25.2	U	1	25.2	80.0	ug/l	FF014916.D
Total AliphaticEPH	Total AliphaticEPH	40.5	U		40.5	180	ug/l	
Total AromaticEPH	Total AromaticEPH	44.9	U		44.9	180	ug/l	
Total EPH	Total EPH	85.4	U		85.4	360	ug/l	

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

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Fax : 908 789 8922

Report of Analysis

Client:	Weston Solutions, Inc.		Date Collected:	10/29/24	
Project:	RFP 872		Date Received:	10/29/24	
Client Sample ID:	P001-CF16-01		SDG No.:	P4620	
Lab Sample ID:	P4620-25		Matrix:	Water	
Analytical Method:	NJEPH		% Solid:	0	
Sample Wt/Vol:	1000	Units: mL	Final Vol:	2000	uL
Soil Aliquot Vol:		uL	Test:	EPH	
Prep Method :	SW3510				

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FF014916.D	1	11/03/24	11/04/24	PB164637

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	3.32	U	3.32	20.0	ug/l
Aromatic C12-C16	Aromatic C12-C16	3.69	U	3.69	30.0	ug/l
Aromatic C16-C21	Aromatic C16-C21	43.7	J	12.7	50.0	ug/l
Aromatic C21-C36	Aromatic C21-C36	25.2	U	25.2	80.0	ug/l
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	56.9		40 - 140	114%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	54.3		40 - 140	109%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	52.6		40 - 140	105%	SPK: 50

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Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	P4620-25	Acq On:	04 Nov 2024 16:25
Client Sample ID:	P001-CF16-01	Operator:	YP\AJ
Data file:	FF014916.D	Misc:	
Instrument:	FID_F	ALS Vial:	71
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.508	6.372	145865	0.935	200	ug/ml
Aromatic C12-C16	6.373	9.064	172047	1.078	300	ug/ml
Aromatic C16-C21	9.065	13.375	3394255	21.844	500	ug/ml
Aromatic C21-C36	13.376	18.817	345899	2.33	800	ug/ml
Aromatic EPH	4.508	18.817	4058066	26.187		ug/ml
2-Bromonaphthalene (SURR)	7.993	7.993	7937793	56.92		ug/ml
2-Flurobiphenyl (SURR)	8.867	8.867	5121870	54.31		ug/ml
ortho-Terphenyl (SURR)	11.929	11.929	8409633	52.57		ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF110424AR\
Data File : FF014916.D
Signal(s) : FID2B.ch
Acq On : 04 Nov 2024 16:25
Operator : YP\AJ
Sample : P4620-25
Misc :
ALS Vial : 71 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
P001-CF16-01

Integration File: autoint1.e
Quant Time: Nov 05 01:27:00 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 102124.M
Quant Title : GC Extractables
QLast Update : Tue Oct 22 04:14:53 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...	7.993	7937793	56.924 ug/ml
Spiked Amount 50.000		Recovery = 113.85%	
6) S 2-Flurobiphenyl (SURR)	8.867	5121870	54.309 ug/ml
Spiked Amount 50.000 Range 0 - 131		Recovery = 108.62%	
11) S ortho-Terphenyl (SURR)	11.929	8409633	52.568 ug/ml
Spiked Amount 50.000		Recovery = 105.14%	
Target Compounds			

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

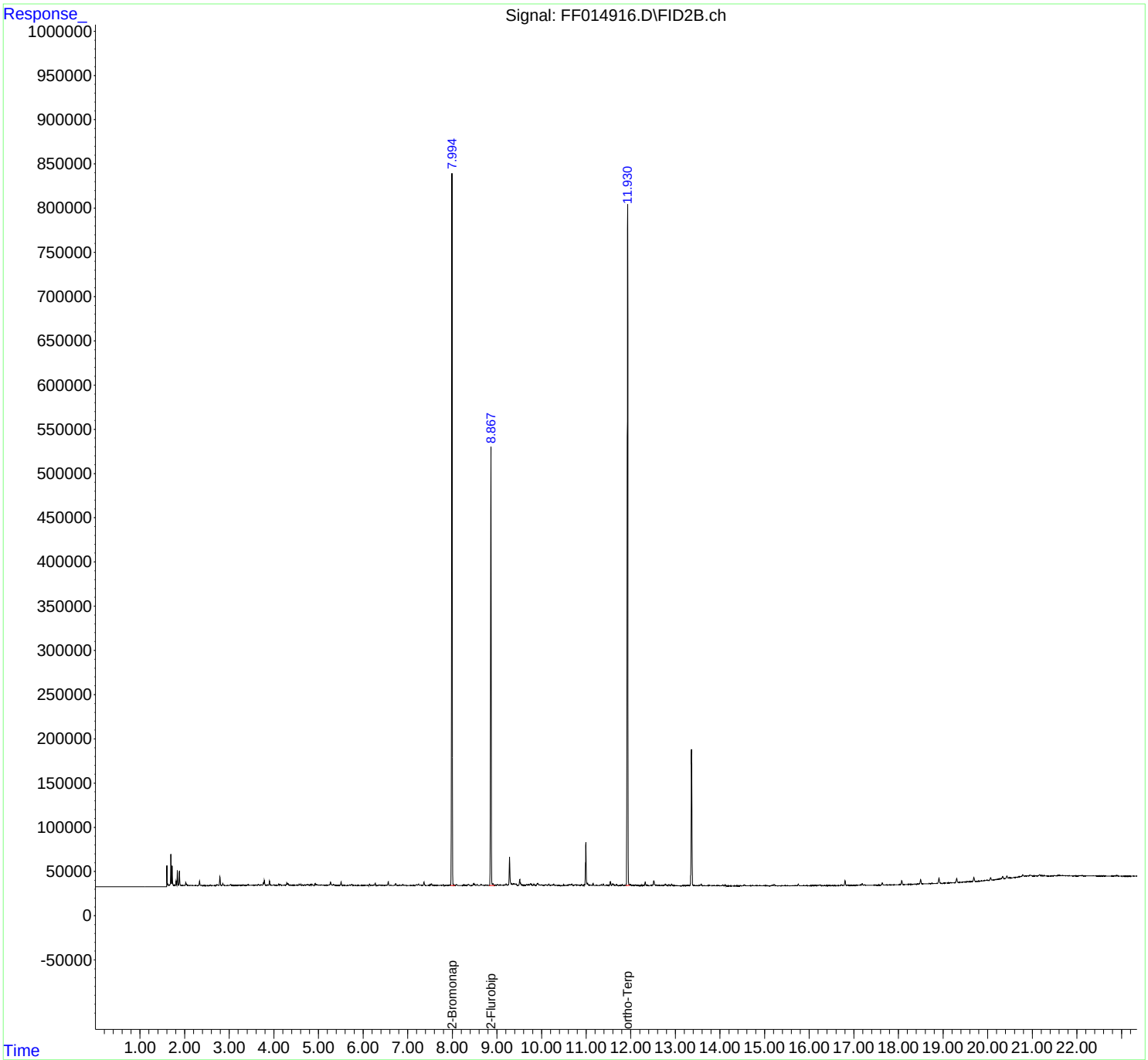
Quantitation Report (QT Reviewed)

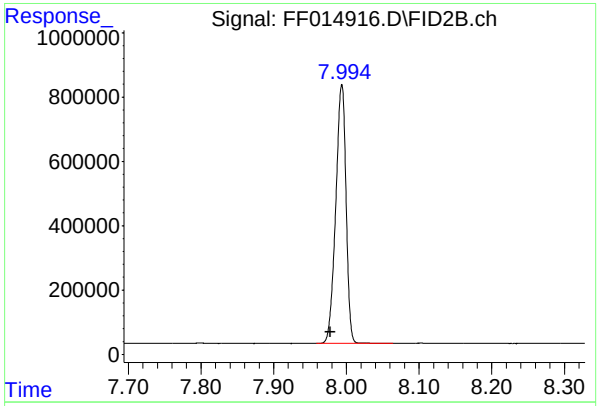
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF110424AR\
Data File : FF014916.D
Signal(s) : FID2B.ch
Acq On : 04 Nov 2024 16:25
Operator : YP\AJ
Sample : P4620-25
Misc :
ALS Vial : 71 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
P001-CF16-01

Integration File: autoint1.e
Quant Time: Nov 05 01:27:00 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 102124.M
Quant Title : GC Extractables
QLast Update : Tue Oct 22 04:14:53 2024
Response via : Initial Calibration
Integrator: ChemStation

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

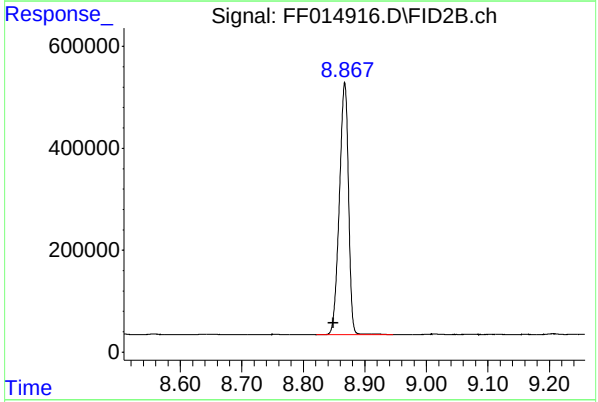




#4 2-Bromonaphthalene (SURR)

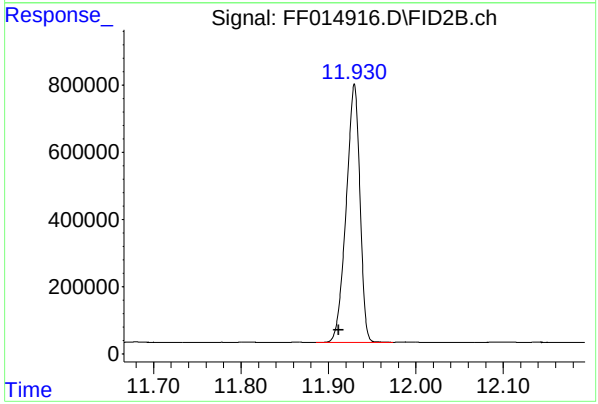
R.T.: 7.993 min
Delta R.T.: 0.016 min
Response: 7937793
Conc: 56.92 ug/ml

Instrument :
FID_F
ClientSampleId :
P001-CF16-01



#6 2-Flurobiphenyl (SURR)

R.T.: 8.867 min
Delta R.T.: 0.018 min
Response: 5121870
Conc: 54.31 ug/ml



#11 ortho-Terphenyl (SURR)

R.T.: 11.929 min
Delta R.T.: 0.017 min
Response: 8409633
Conc: 52.57 ug/ml

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF110424AR\
Data File : FF014916.D
Signal(s) : FID2B.ch
Acq On : 04 Nov 2024 16:25
Sample : P4620-25
Misc :
ALS Vial : 71 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 102124.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	4.927	4.886	4.959	BB	2116	21104	0.25%	0.083%
2	5.272	5.139	5.312	BV	3703	52424	0.62%	0.205%
3	5.508	5.447	5.529	BV	3967	38928	0.46%	0.152%
4	6.272	6.202	6.294	BV	2575	33409	0.40%	0.131%
5	6.565	6.544	6.602	VV	4377	47593	0.57%	0.186%
6	6.733	6.651	6.786	BB	2272	30158	0.36%	0.118%
7	7.366	7.339	7.414	BB	3805	47977	0.57%	0.188%
8	7.536	7.519	7.584	VB	2016	24362	0.29%	0.095%
9	7.993	7.958	8.064	PV	808467	7937793	94.39%	31.095%
10	8.479	8.414	8.495	BV	2099	21957	0.26%	0.086%
11	8.867	8.821	8.946	BV	496980	5121870	60.90%	20.064%
12	9.285	9.250	9.346	PV	31564	352526	4.19%	1.381%
13	9.512	9.469	9.551	BV	6515	88709	1.05%	0.348%
14	9.755	9.719	9.796	VV	2145	46165	0.55%	0.181%
15	9.917	9.876	9.944	BV	2207	43122	0.51%	0.169%
16	10.994	10.969	11.022	VV	48865	532383	6.33%	2.086%
17	11.035	11.022	11.066	VV	2378	33669	0.40%	0.132%
18	11.154	11.066	11.206	VB	2466	42378	0.50%	0.166%
19	11.383	11.364	11.424	VV	1863	21242	0.25%	0.083%
20	11.543	11.479	11.567	VV	4528	65615	0.78%	0.257%
21	11.596	11.567	11.656	VV	1935	43940	0.52%	0.172%
22	11.929	11.886	11.974	PV	768403	8409633	100.00%	32.944%
23	12.325	12.288	12.348	VV	3994	53807	0.64%	0.211%
24	12.517	12.387	12.591	PV	5544	116443	1.38%	0.456%
25	12.777	12.591	12.821	VV	1736	71777	0.85%	0.281%
26	12.914	12.882	12.937	PV	1873	23450	0.28%	0.092%
27	13.360	13.292	13.439	BB	152660	1859029	22.11%	7.282%
28	13.580	13.562	13.619	VB	1952	26089	0.31%	0.102%
29	15.754	15.644	15.802	BB	1781	26341	0.31%	0.103%
30	16.801	16.754	16.829	BV	5510	69756	0.83%	0.273%
31	17.186	17.026	17.213	BV	1936	37016	0.44%	0.145%
32	17.637	17.579	17.679	BB	2546	36324	0.43%	0.142%
33	18.073	17.992	18.107	BB	4558	70820	0.84%	0.277%
34	18.496	18.376	18.529	BB	5132	79553	0.95%	0.312%
			Sum of corrected areas:			25527360		

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

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	10/29/24
Project:	RFP 872	Date Received:	10/29/24
Client Sample ID:	P001-CF16-01	SDG No.:	P4620
Lab Sample ID:	P4620-25	Matrix:	Water
Analytical Method:	NJEPH	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :	SW3510		

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FG014646.D	1	11/03/24	11/04/24	PB164637

CAS Number	Parameter		Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
Aliphatic C9-C12	Aliphatic C9-C12		5.76	U	5.76	30.0	ug/l
Aliphatic C12-C16	Aliphatic C12-C16		3.61	U	3.61	20.0	ug/l
Aliphatic C16-C21	Aliphatic C16-C21		5.14	U	5.14	30.0	ug/l
Aliphatic C21-C28	Aliphatic C21-C28		8.97	U	8.97	40.0	ug/l
Aliphatic C28-C40	Aliphatic C28-C40		17.0	U	17.0	60.0	ug/l
SURROGATES							
3383-33-2	1-chlorooctadecane (SURR)		46.8		40 - 140	94%	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:	P4620-25	Acq On:	04 Nov 2024 16:25
Client Sample ID:	P001-CF16-01	Operator:	YP\AJ
Data file:	FG014646.D	Misc:	
Instrument:	FID_G	ALS Vial:	21
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.228	6.849	70021	0.533	300	ug/ml
Aliphatic C12-C16	6.850	10.292	240003	1.767	200	ug/ml
Aliphatic C16-C21	10.293	13.665	42483	0.301	300	ug/ml
Aliphatic C21-C28	13.666	17.329	0	0	400	ug/ml
Aliphatic C28-C40	17.330	22.266	0	0	600	ug/ml
Aliphatic EPH	3.228	22.266	352507	2.601		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	13.398	13.398	5743014	46.77		ug/ml
Aliphatic C9-C28	3.228	17.329	352507	2.601	1200	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG110424AL\
Data File : FG014646.D
Signal(s) : FID1A.ch
Acq On : 04 Nov 2024 16:25
Operator : YP\AJ
Sample : P4620-25
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
P001-CF16-01

Integration File: autoint1.e
Quant Time: Nov 05 00:37:43 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 102124.M
Quant Title : GC Extractables
QLast Update : Tue Oct 22 06:49:54 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...	13.398	5743014	46.771 ug/ml
Spiked Amount 50.000		Recovery = 93.54%	
Target Compounds			

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

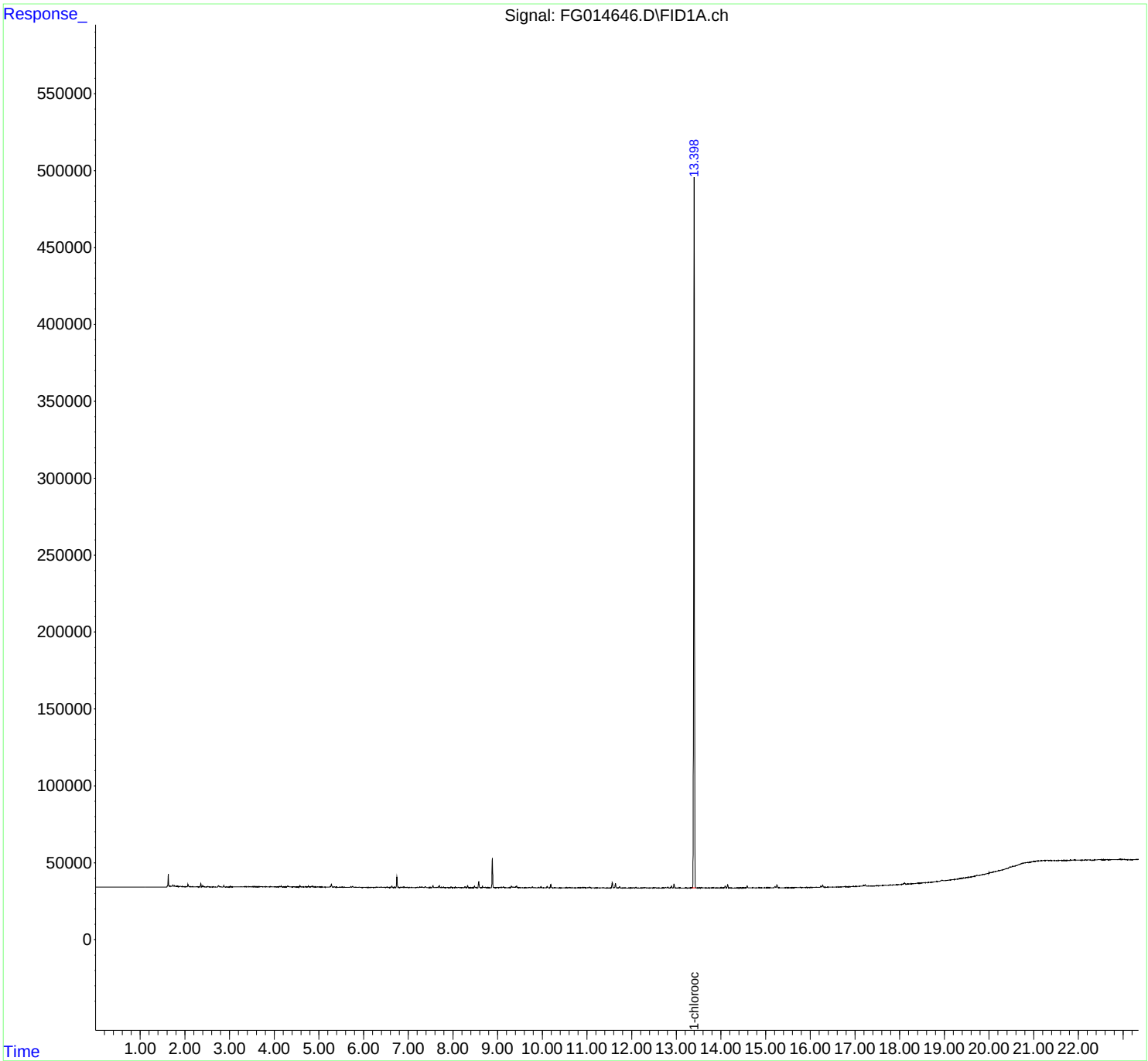
Quantitation Report (QT Reviewed)

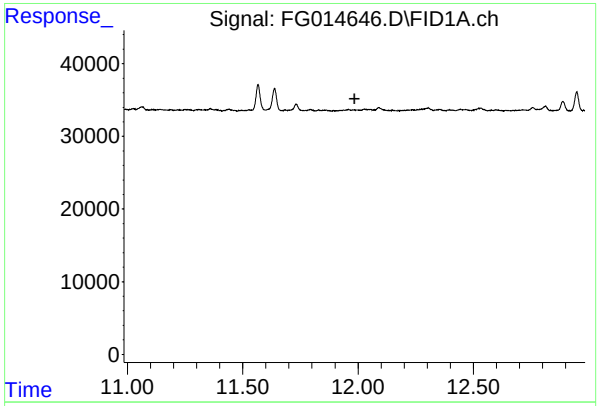
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG110424AL\
Data File : FG014646.D
Signal(s) : FID1A.ch
Acq On : 04 Nov 2024 16:25
Operator : YP\AJ
Sample : P4620-25
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
P001-CF16-01

Integration File: autoint1.e
Quant Time: Nov 05 00:37:43 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 102124.M
Quant Title : GC Extractables
QLast Update : Tue Oct 22 06:49:54 2024
Response via : Initial Calibration
Integrator: ChemStation

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

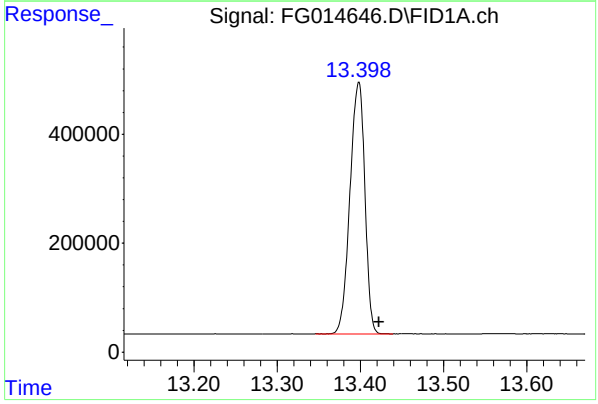




#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.984 min
Response: 0
Conc: N.D.

Instrument :
FID_G
ClientSampleId :
P001-CF16-01



#12 1-chlorooctadecane (SURR)

R.T.: 13.398 min
Delta R.T.: -0.024 min
Response: 5743014
Conc: 46.77 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG110424AL\
Data File : FG014646.D
Signal(s) : FID1A.ch
Acq On : 04 Nov 2024 16:25
Sample : P4620-25
Misc :
ALS Vial : 21 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 102124.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	6.747	6.719	6.773	BB	6957	70021	1.22%	1.149%
2	8.579	8.547	8.610	BB	4121	44723	0.78%	0.734%
3	8.884	8.845	8.908	BB	19297	195280	3.40%	3.204%
4	11.566	11.534	11.597	BB	3532	42483	0.74%	0.697%
5	13.398	13.347	13.439	BB	462401	5743014	100.00%	94.217%

Sum of corrected areas: 6095521

Aliphatic EPH 102124.M Tue Nov 05 01:19:34 2024

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

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	10/29/24
Project:	RFP 872	Date Received:	10/29/24
Client Sample ID:	P001-CF16-02	SDG No.:	P4620
Lab Sample ID:	P4620-29	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	95.2
Sample Wt/Vol:	30.03 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
11/03/24 08:45	11/05/24 10:18	PB164618

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	0.40	U	1	0.40	1.05	mg/kg	FC067628.D
Aliphatic C12-C16	Aliphatic C12-C16	0.47	J	1	0.25	0.70	mg/kg	FC067628.D
Aliphatic C16-C21	Aliphatic C16-C21	0.46	J	1	0.32	1.05	mg/kg	FC067628.D
Aliphatic C21-C28	Aliphatic C21-C28	0.84	U	1	0.84	1.40	mg/kg	FC067628.D
Aliphatic C28-C40	Aliphatic C28-C40	2.68		1	1.89	2.10	mg/kg	FC067628.D
Aromatic C10-C12	Aromatic C10-C12	0.32	U	1	0.32	0.70	mg/kg	FD048655.D
Aromatic C12-C16	Aromatic C12-C16	0.36	U	1	0.36	1.05	mg/kg	FD048655.D
Aromatic C16-C21	Aromatic C16-C21	1.01	U	1	1.01	1.75	mg/kg	FD048655.D
Aromatic C21-C36	Aromatic C21-C36	2.10	U	1	2.10	2.80	mg/kg	FD048655.D
Total AliphaticEPH	Total AliphaticEPH	3.69	U		3.69	6.30	mg/kg	
Total AromaticEPH	Total AromaticEPH	3.78	U		3.78	6.30	mg/kg	
Total EPH	Total EPH	7.48	U		7.48	12.6	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:	Weston Solutions, Inc.	Date Collected:	10/29/24
Project:	RFP 872	Date Received:	10/29/24
Client Sample ID:	P001-CF16-02	SDG No.:	P4620
Lab Sample ID:	P4620-29	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	95.2
Sample Wt/Vol:	30.03 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FC067628.D	1	11/03/24	11/05/24	PB164618

CAS Number	Parameter		Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
Aliphatic C9-C12	Aliphatic C9-C12		0.40	U	0.40	1.05	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16		0.47	J	0.25	0.70	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21		0.46	J	0.32	1.05	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28		0.84	U	0.84	1.40	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40		2.68		1.89	2.10	mg/kg
SURROGATES							
3383-33-2	1-chlorooctadecane (SURR)		26.4		40 - 140	53%	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:	P4620-29	Acq On:	05 Nov 2024 10:18
Client Sample ID:	P001-CF16-02	Operator:	YP/AJ
Data file:	FC067628.D	Misc:	
Instrument:	FID_C	ALS Vial:	25
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.171	6.449	432931	3.196	300	ug/ml
Aliphatic C12-C16	6.450	9.838	876738	6.658	200	ug/ml
Aliphatic C16-C21	9.839	13.196	834408	6.558	300	ug/ml
Aliphatic C21-C28	13.197	16.847	796258	6.63	400	ug/ml
Aliphatic C28-C40	16.848	21.685	3867879	38.261	600	ug/ml
Aliphatic EPH	3.171	21.685	6808214	61.303		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	12.928	12.928	2851347	26.4		ug/ml
Aliphatic C9-C28	3.171	16.847	2940335	23.042	1200	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC110424AL\
Data File : FC067628.D
Signal(s) : FID1A.ch
Acq On : 05 Nov 2024 10:18
Operator : YP/AJ
Sample : P4620-29
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
P001-CF16-02

Integration File: autoint1.e
Quant Time: Nov 05 15:47:33 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...	12.928	2851347	26.404 ug/ml
Spiked Amount 50.000		Recovery = 52.81%	
Target Compounds			

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

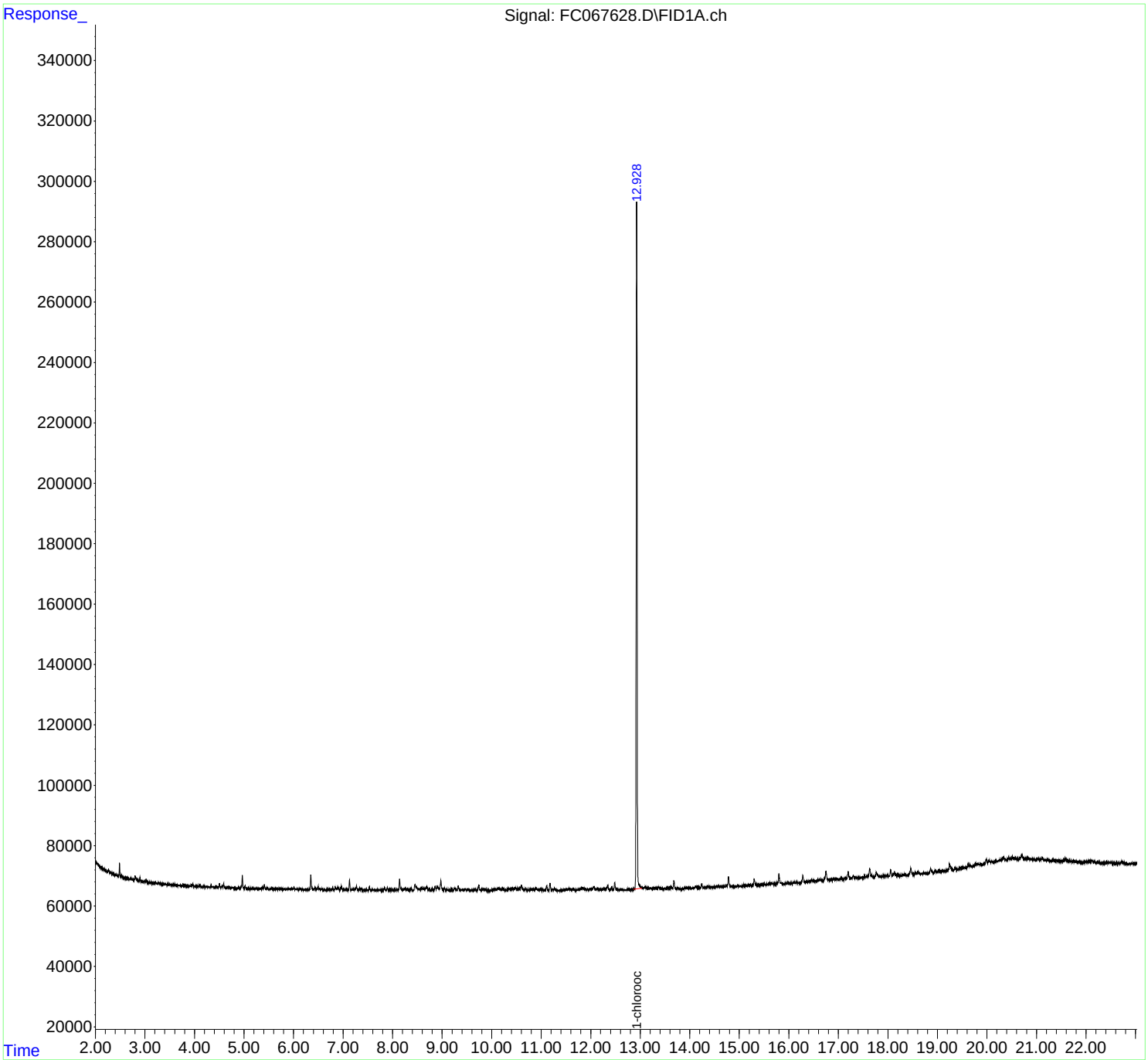
Quantitation Report (QT Reviewed)

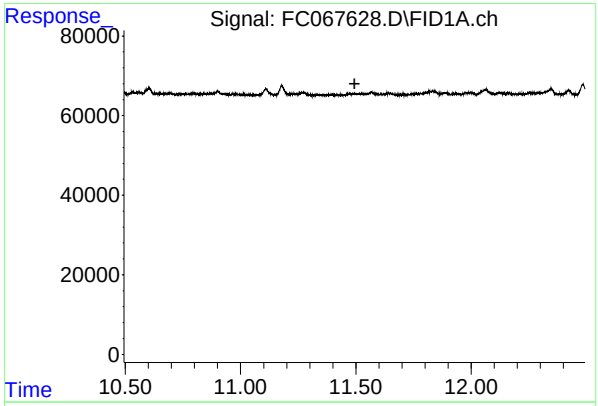
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC110424AL\
Data File : FC067628.D
Signal(s) : FID1A.ch
Acq On : 05 Nov 2024 10:18
Operator : YP/AJ
Sample : P4620-29
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
P001-CF16-02

Integration File: autoint1.e
Quant Time: Nov 05 15:47:33 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

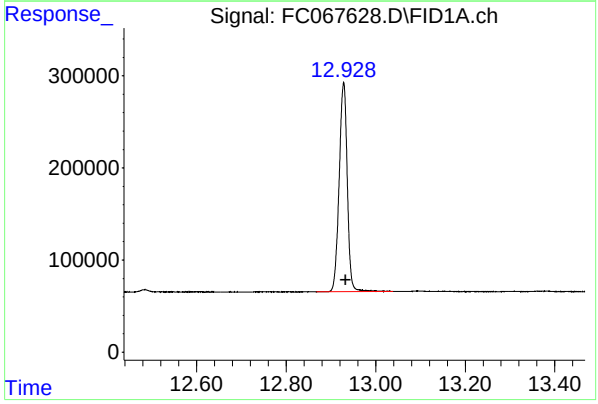




#9 ortho-Terphenyl (SURR)

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

Instrument :
FID_C
ClientSampleId :
P001-CF16-02



#12 1-chlorooctadecane (SURR)

R.T.: 12.928 min
Delta R.T.: -0.005 min
Response: 2851347
Conc: 26.40 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC110424AL\
Data File : FC067628.D
Signal(s) : FID1A.ch
Acq On : 05 Nov 2024 10:18
Sample : P4620-29
Misc :
ALS Vial : 25 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	3.210	3.205	3.252	VV	138	2446	0.08%	0.025%
2	3.271	3.252	3.345	PV	272	6110	0.21%	0.062%
3	3.367	3.345	3.441	PV	160	4078	0.14%	0.042%
4	3.451	3.441	3.465	VV	80	936	0.03%	0.010%
5	3.473	3.465	3.524	VV	146	2869	0.10%	0.029%
6	3.547	3.524	3.562	VV	172	2404	0.08%	0.025%
7	3.571	3.562	3.580	VV	203	1473	0.05%	0.015%
8	3.591	3.580	3.626	VV	223	3686	0.13%	0.038%
9	3.642	3.626	3.660	PV	151	1701	0.06%	0.017%
10	3.674	3.660	3.751	VV	92	2779	0.10%	0.028%
11	3.764	3.751	3.833	VV	214	5167	0.18%	0.053%
12	3.852	3.833	3.908	VV	159	3455	0.12%	0.035%
13	3.937	3.908	3.949	PV	450	5299	0.18%	0.054%
14	3.965	3.949	3.991	VV	811	8817	0.30%	0.090%
15	4.003	3.991	4.018	VV	122	1125	0.04%	0.011%
16	4.028	4.018	4.068	VV	152	2074	0.07%	0.021%
17	4.112	4.068	4.237	VV	799	17777	0.61%	0.182%
18	4.247	4.237	4.292	PV	190	3568	0.12%	0.036%
19	4.297	4.292	4.309	VV	86	975	0.03%	0.010%
20	4.336	4.309	4.395	VV	570	11624	0.40%	0.119%
21	4.439	4.395	4.471	VV	291	8055	0.28%	0.082%
22	4.503	4.471	4.540	VV	1272	17029	0.59%	0.174%
23	4.558	4.540	4.573	VV	919	10653	0.37%	0.109%
24	4.589	4.573	4.634	VV	1594	17112	0.59%	0.175%
25	4.644	4.634	4.661	VV	177	1753	0.06%	0.018%
26	4.668	4.661	4.678	VV	112	951	0.03%	0.010%
27	4.705	4.678	4.734	VV	233	4979	0.17%	0.051%
28	4.738	4.734	4.745	VV	189	659	0.02%	0.007%
29	4.777	4.745	4.870	VV	179	6118	0.21%	0.063%
30	4.888	4.870	4.921	VV	275	4448	0.15%	0.045%
31	4.967	4.921	5.008	VV	4466	55511	1.91%	0.567%
32	5.023	5.008	5.042	VV	932	10044	0.35%	0.103%
33	5.051	5.042	5.065	VV	196	2274	0.08%	0.023%
34	5.078	5.065	5.111	VV	177	3470	0.12%	0.035%
35	5.160	5.111	5.222	PV	358	11417	0.39%	0.117%
36	5.254	5.222	5.281	VV	135	3459	0.12%	0.035%

rteres

37	5.334	5.281	5.351	VV	222	6287	0.22%	0.064%
38	5.370	5.351	5.390	VV	501	7326	0.25%	0.075%
39	5.410	5.390	5.446	VV	1630	19669	0.68%	0.201%
40	5.467	5.446	5.520	VV	433	8153	0.28%	0.083%
41	5.532	5.520	5.540	VV	220	2151	0.07%	0.022%
42	5.554	5.540	5.578	VV	362	4748	0.16%	0.049%
43	5.598	5.589	5.607	VV	167	1300	0.04%	0.013%
44	5.616	5.607	5.638	VV	156	1842	0.06%	0.019%
45	5.661	5.638	5.683	VV	317	5444	0.19%	0.056%
46	5.718	5.683	5.804	VV	219	7168	0.25%	0.073%
47	5.820	5.804	5.844	VV	186	2394	0.08%	0.024%
48	5.871	5.844	5.905	PV	193	4492	0.15%	0.046%
49	5.926	5.905	5.951	VV	368	5978	0.21%	0.061%
50	5.965	5.951	5.986	VV	400	5069	0.17%	0.052%
51	6.009	5.986	6.033	VV	852	9475	0.33%	0.097%
52	6.040	6.033	6.053	VV	134	1434	0.05%	0.015%
53	6.070	6.053	6.111	VV	453	6619	0.23%	0.068%
54	6.141	6.111	6.202	VV	337	8899	0.31%	0.091%
55	6.219	6.202	6.228	PV	117	944	0.03%	0.010%
56	6.245	6.228	6.295	VV	158	2540	0.09%	0.026%
57	6.349	6.295	6.409	PV	4960	63295	2.18%	0.647%
58	6.434	6.409	6.454	VV	873	11409	0.39%	0.117%
59	6.469	6.454	6.481	VV	461	5633	0.19%	0.058%
60	6.498	6.481	6.517	VV	1225	14200	0.49%	0.145%
61	6.531	6.517	6.550	VV	462	5391	0.19%	0.055%
62	6.570	6.550	6.608	VV	630	8063	0.28%	0.082%
63	6.625	6.608	6.641	VV	146	1466	0.05%	0.015%
64	6.680	6.641	6.693	VV	148	1973	0.07%	0.020%
65	6.715	6.693	6.765	VV	163	3746	0.13%	0.038%
66	6.790	6.765	6.820	VV	777	9938	0.34%	0.102%
67	6.844	6.820	6.878	VV	988	18383	0.63%	0.188%
68	6.894	6.878	6.935	VV	810	17590	0.61%	0.180%
69	6.969	6.935	6.993	VV	1416	20463	0.71%	0.209%
70	7.007	6.993	7.030	VV	243	2784	0.10%	0.028%
71	7.074	7.030	7.111	VV	371	7332	0.25%	0.075%
72	7.131	7.111	7.165	VV	3410	37749	1.30%	0.386%
73	7.205	7.165	7.222	VV	406	8864	0.31%	0.091%
74	7.236	7.222	7.250	VV	529	6290	0.22%	0.064%
75	7.271	7.250	7.295	VV	1500	20152	0.69%	0.206%
76	7.334	7.295	7.348	VV	524	9732	0.34%	0.099%
77	7.361	7.348	7.411	VV	662	9208	0.32%	0.094%
78	7.442	7.411	7.461	VV	166	3356	0.12%	0.034%
79	7.475	7.461	7.497	VV	177	1951	0.07%	0.020%
80	7.533	7.497	7.575	PV	1379	16023	0.55%	0.164%
81	7.614	7.575	7.660	VV	304	8509	0.29%	0.087%
82	7.699	7.660	7.710	VV	294	4869	0.17%	0.050%
83	7.726	7.710	7.736	VV	176	2354	0.08%	0.024%
84	7.747	7.736	7.776	VV	192	2085	0.07%	0.021%
85	7.793	7.776	7.809	PV	304	2839	0.10%	0.029%
86	7.838	7.809	7.870	VV	1115	14217	0.49%	0.145%
87	7.893	7.870	7.916	VV	1023	12947	0.45%	0.132%
88	7.931	7.916	7.954	VV	253	3725	0.13%	0.038%
89	7.962	7.954	7.984	VV	233	2431	0.08%	0.025%

90	7.995	7.984	8.031	VV	188	2767	0.10%	0.028%
91	8.048	8.031	8.068	VV	540	6827	0.24%	0.070%
92	8.079	8.068	8.114	VV	281	4790	0.17%	0.049%
93	8.142	8.114	8.214	VV	3826	57254	1.97%	0.585%
94	8.253	8.214	8.273	VV	650	15976	0.55%	0.163%
95	8.288	8.273	8.312	VV	627	9041	0.31%	0.092%
96	8.333	8.312	8.358	VV	523	7484	0.26%	0.076%
97	8.374	8.358	8.421	VV	734	9526	0.33%	0.097%
98	8.452	8.421	8.514	VV	2062	56284	1.94%	0.575%
99	8.550	8.514	8.571	VV	590	18620	0.64%	0.190%
100	8.598	8.571	8.614	VV	962	17323	0.60%	0.177%
101	8.629	8.614	8.640	VV	802	10176	0.35%	0.104%
102	8.651	8.640	8.661	VV	689	8026	0.28%	0.082%
103	8.681	8.661	8.718	VV	1301	28254	0.97%	0.289%
104	8.741	8.718	8.770	VV	658	11814	0.41%	0.121%
105	8.794	8.770	8.818	VV	600	9256	0.32%	0.095%
106	8.859	8.818	8.877	VV	1526	24756	0.85%	0.253%
107	8.897	8.877	8.936	VV	1504	32588	1.12%	0.333%
108	8.976	8.936	9.028	VV	3315	65598	2.26%	0.670%
109	9.049	9.028	9.081	VV	920	13757	0.47%	0.141%
110	9.098	9.081	9.131	VV	711	9029	0.31%	0.092%
111	9.177	9.131	9.222	VV	468	15306	0.53%	0.156%
112	9.263	9.222	9.300	VV	882	21804	0.75%	0.223%
113	9.326	9.300	9.364	VV	1618	27705	0.95%	0.283%
114	9.379	9.364	9.418	VV	384	10332	0.36%	0.106%
115	9.424	9.418	9.441	VV	412	3644	0.13%	0.037%
116	9.468	9.441	9.495	VV	743	12120	0.42%	0.124%
117	9.520	9.495	9.635	VV	676	20991	0.72%	0.214%
118	9.659	9.635	9.705	VV	496	10780	0.37%	0.110%
119	9.740	9.705	9.785	VV	1968	31944	1.10%	0.326%
120	9.812	9.785	9.823	VV	560	9900	0.34%	0.101%
121	9.827	9.823	9.854	VV	560	8803	0.30%	0.090%
122	9.863	9.854	9.895	VV	385	7501	0.26%	0.077%
123	9.910	9.895	9.933	VV	354	5295	0.18%	0.054%
124	9.948	9.933	9.967	VV	168	1653	0.06%	0.017%
125	10.019	9.967	10.030	PV	456	9396	0.32%	0.096%
126	10.057	10.030	10.075	VV	668	12441	0.43%	0.127%
127	10.129	10.075	10.150	VV	960	25644	0.88%	0.262%
128	10.165	10.150	10.195	VV	801	15357	0.53%	0.157%
129	10.203	10.195	10.241	VV	550	14117	0.49%	0.144%
130	10.248	10.241	10.306	VV	438	13127	0.45%	0.134%
131	10.339	10.306	10.351	VV	729	13311	0.46%	0.136%
132	10.364	10.351	10.389	VV	705	13290	0.46%	0.136%
133	10.416	10.389	10.438	VV	849	19729	0.68%	0.202%
134	10.478	10.438	10.515	VV	1086	32775	1.13%	0.335%
135	10.531	10.515	10.578	VV	796	25598	0.88%	0.262%
136	10.603	10.578	10.629	VV	1797	33680	1.16%	0.344%
137	10.639	10.629	10.654	VV	513	6977	0.24%	0.071%
138	10.693	10.654	10.716	VV	553	16244	0.56%	0.166%
139	10.735	10.716	10.744	VV	399	5514	0.19%	0.056%
140	10.761	10.744	10.772	VV	390	5877	0.20%	0.060%
141	10.798	10.772	10.831	VV	578	14598	0.50%	0.149%

142	10.844	10.831	10.856	VV	489	6444	0.22%	0.066%
143	10.869	10.856	10.877	VV	553	6038	0.21%	0.062%
144	10.901	10.877	10.951	VV	1011	23221	0.80%	0.237%
145	10.979	10.951	11.065	VV	359	14971	0.52%	0.153%
146	11.110	11.065	11.145	VV	1612	29582	1.02%	0.302%
147	11.179	11.145	11.212	VV	2383	37902	1.31%	0.387%
148	11.226	11.212	11.238	VV	365	5467	0.19%	0.056%
149	11.271	11.238	11.317	VV	770	17445	0.60%	0.178%
150	11.332	11.317	11.354	VV	158	2229	0.08%	0.023%
151	11.395	11.354	11.434	VV	192	5297	0.18%	0.054%
152	11.526	11.434	11.547	PV	428	20167	0.70%	0.206%
153	11.567	11.547	11.614	VV	768	17099	0.59%	0.175%
154	11.642	11.614	11.677	VV	554	12546	0.43%	0.128%
155	11.770	11.677	11.784	VV	416	15187	0.52%	0.155%
156	11.836	11.784	11.868	VV	950	33340	1.15%	0.341%
157	11.888	11.868	11.914	VV	578	11699	0.40%	0.120%
158	11.934	11.914	11.958	VV	450	7865	0.27%	0.080%
159	11.978	11.958	11.991	VV	653	8819	0.30%	0.090%
160	12.000	11.991	12.021	VV	689	8049	0.28%	0.082%
161	12.063	12.021	12.108	VV	1359	36116	1.24%	0.369%
162	12.126	12.108	12.150	VV	628	12014	0.41%	0.123%
163	12.166	12.150	12.199	VV	452	8801	0.30%	0.090%
164	12.217	12.199	12.230	VV	262	4599	0.16%	0.047%
165	12.253	12.230	12.271	VV	578	10011	0.35%	0.102%
166	12.346	12.271	12.393	VV	1615	45509	1.57%	0.465%
167	12.424	12.393	12.449	VV	1152	17956	0.62%	0.183%
168	12.484	12.449	12.565	VV	2597	44343	1.53%	0.453%
169	12.600	12.565	12.716	VV	293	11065	0.38%	0.113%
170	12.752	12.716	12.788	PV	304	8274	0.29%	0.085%
171	12.806	12.788	12.824	VV	303	3399	0.12%	0.035%
172	12.856	12.824	12.867	VV	293	5777	0.20%	0.059%
173	12.883	12.867	12.891	VV	322	3968	0.14%	0.041%
174	12.928	12.891	13.066	VV	226287	2901630	100.00%	29.643%
175	13.094	13.066	13.133	VV	1019	29468	1.02%	0.301%
176	13.153	13.133	13.188	VV	633	17617	0.61%	0.180%
177	13.211	13.188	13.233	VV	506	10900	0.38%	0.111%
178	13.246	13.233	13.278	VV	346	8174	0.28%	0.083%
179	13.306	13.278	13.333	VV	578	15135	0.52%	0.155%
180	13.381	13.333	13.418	VV	726	25388	0.87%	0.259%
181	13.428	13.418	13.460	VV	403	6985	0.24%	0.071%
182	13.496	13.460	13.509	VV	392	8911	0.31%	0.091%
183	13.535	13.509	13.572	VV	533	14938	0.51%	0.153%
184	13.591	13.572	13.600	VV	344	4987	0.17%	0.051%
185	13.627	13.600	13.651	VV	954	16967	0.58%	0.173%
186	13.680	13.651	13.723	VV	2674	43334	1.49%	0.443%
187	13.735	13.723	13.756	VV	319	4235	0.15%	0.043%
188	13.778	13.756	13.798	VV	257	4331	0.15%	0.044%
189	13.803	13.798	13.833	VV	167	1894	0.07%	0.019%
190	13.841	13.833	13.873	PV	107	1829	0.06%	0.019%
191	13.908	13.873	13.952	VV	357	10985	0.38%	0.112%
192	13.978	13.952	13.992	VV	248	4008	0.14%	0.041%
193	14.020	13.992	14.054	VV	269	5289	0.18%	0.054%
194	14.118	14.054	14.158	VV	792	19171	0.66%	0.196%

195	14.175	14.158	14.200	VV	332	6385	0.22%	0.065%
196	14.242	14.200	14.275	VV	1452	22677	0.78%	0.232%
197	14.305	14.275	14.325	VV	220	5232	0.18%	0.053%
198	14.372	14.325	14.415	VV	352	13884	0.48%	0.142%
199	14.433	14.415	14.461	VV	301	5974	0.21%	0.061%
200	14.491	14.461	14.521	VV	445	10172	0.35%	0.104%
201	14.557	14.521	14.574	VV	473	10622	0.37%	0.109%
202	14.590	14.574	14.612	VV	404	7220	0.25%	0.074%
203	14.632	14.612	14.681	VV	258	7986	0.28%	0.082%
204	14.689	14.681	14.714	VV	204	3380	0.12%	0.035%
205	14.738	14.714	14.758	VV	735	11723	0.40%	0.120%
206	14.781	14.758	14.825	VV	3404	52083	1.79%	0.532%
207	14.834	14.825	14.928	VV	255	6523	0.22%	0.067%
208	14.975	14.928	15.008	PV	276	6672	0.23%	0.068%
209	15.024	15.008	15.039	VV	191	1820	0.06%	0.019%
210	15.050	15.039	15.077	VV	134	1844	0.06%	0.019%
211	15.094	15.077	15.111	VV	351	2542	0.09%	0.026%
212	15.118	15.111	15.149	VV	191	2371	0.08%	0.024%
213	15.167	15.149	15.177	VV	202	2338	0.08%	0.024%
214	15.203	15.177	15.255	VV	412	9241	0.32%	0.094%
215	15.299	15.255	15.332	VV	2154	35251	1.21%	0.360%
216	15.347	15.332	15.381	VV	360	7008	0.24%	0.072%
217	15.448	15.381	15.458	VV	202	6706	0.23%	0.069%
218	15.481	15.458	15.512	VV	353	7943	0.27%	0.081%
219	15.522	15.512	15.578	VV	266	6043	0.21%	0.062%
220	15.620	15.578	15.634	VV	571	12854	0.44%	0.131%
221	15.646	15.634	15.675	VV	405	8936	0.31%	0.091%
222	15.687	15.675	15.696	VV	326	3377	0.12%	0.034%
223	15.762	15.696	15.774	VV	481	9534	0.33%	0.097%
224	15.799	15.774	15.835	VV	3457	53149	1.83%	0.543%
225	15.850	15.835	15.911	VV	489	8185	0.28%	0.084%
226	15.976	15.911	16.023	PV	391	10857	0.37%	0.111%
227	16.115	16.023	16.138	PV	371	11301	0.39%	0.115%
228	16.159	16.138	16.216	VV	286	6965	0.24%	0.071%
229	16.282	16.216	16.313	PV	2470	40198	1.39%	0.411%
230	16.325	16.313	16.343	VV	315	4492	0.15%	0.046%
231	16.368	16.343	16.381	VV	325	4859	0.17%	0.050%
232	16.384	16.381	16.391	VV	169	1029	0.04%	0.011%
233	16.458	16.391	16.482	VV	545	19538	0.67%	0.200%
234	16.493	16.482	16.528	VV	525	11019	0.38%	0.113%
235	16.542	16.528	16.561	VV	331	5824	0.20%	0.060%
236	16.586	16.561	16.615	VV	563	12896	0.44%	0.132%
237	16.641	16.615	16.661	VV	632	14534	0.50%	0.148%
238	16.670	16.661	16.690	VV	486	6042	0.21%	0.062%
239	16.749	16.690	16.785	VV	3369	74940	2.58%	0.766%
240	16.798	16.785	16.821	VV	618	9243	0.32%	0.094%
241	16.834	16.821	16.848	VV	381	5385	0.19%	0.055%
242	16.856	16.848	16.878	VV	324	4699	0.16%	0.048%
243	16.912	16.878	16.948	VV	545	16183	0.56%	0.165%
244	16.976	16.948	17.008	VV	660	13535	0.47%	0.138%
245	17.062	17.008	17.101	VV	599	22207	0.77%	0.227%
246	17.149	17.101	17.165	VV	595	15175	0.52%	0.155%

247	17.198	17.165	17.247	VV	2714	52413	1.81%	0.535%
248	17.263	17.247	17.274	VV	500	6669	0.23%	0.068%
249	17.300	17.274	17.328	VV	1124	24919	0.86%	0.255%
250	17.362	17.328	17.373	VV	607	12802	0.44%	0.131%
251	17.384	17.373	17.405	VV	436	7716	0.27%	0.079%
252	17.429	17.405	17.435	VV	328	5313	0.18%	0.054%
253	17.480	17.435	17.502	VV	700	17355	0.60%	0.177%
254	17.529	17.502	17.547	VV	697	14317	0.49%	0.146%
255	17.631	17.547	17.657	VV	3276	85669	2.95%	0.875%
256	17.670	17.657	17.719	VV	1039	18951	0.65%	0.194%
257	17.767	17.719	17.839	VV	1749	54466	1.88%	0.556%
258	17.853	17.839	17.877	VV	316	4895	0.17%	0.050%
259	17.962	17.877	17.987	VV	516	24392	0.84%	0.249%
260	18.008	17.987	18.025	VV	439	6815	0.23%	0.070%
261	18.054	18.025	18.086	VV	2333	37926	1.31%	0.387%
262	18.131	18.086	18.154	VV	1560	30275	1.04%	0.309%
263	18.167	18.154	18.179	VV	567	6461	0.22%	0.066%
264	18.191	18.179	18.232	VV	355	7387	0.25%	0.075%
265	18.254	18.232	18.266	PV	224	2771	0.10%	0.028%
266	18.324	18.266	18.404	VV	460	19675	0.68%	0.201%
267	18.463	18.404	18.531	VV	2341	54544	1.88%	0.557%
268	18.554	18.531	18.576	VV	986	15506	0.53%	0.158%
269	18.600	18.576	18.683	VV	1170	33251	1.15%	0.340%
270	18.726	18.683	18.809	VV	502	17967	0.62%	0.184%
271	18.861	18.809	18.915	VV	1920	50370	1.74%	0.515%
272	18.954	18.915	18.971	VV	824	18897	0.65%	0.193%
273	18.982	18.971	18.991	VV	600	6848	0.24%	0.070%
274	19.040	18.991	19.088	VV	957	42626	1.47%	0.435%
275	19.110	19.088	19.179	VV	829	32472	1.12%	0.332%
276	19.247	19.179	19.328	VV	2742	107945	3.72%	1.103%
277	19.359	19.328	19.416	VV	1301	50195	1.73%	0.513%
278	19.429	19.416	19.437	VV	993	11367	0.39%	0.116%
279	19.477	19.437	19.491	VV	1200	35002	1.21%	0.358%
280	19.529	19.491	19.588	VV	1331	69833	2.41%	0.713%
281	19.621	19.588	19.641	VV	2449	54539	1.88%	0.557%
282	19.660	19.641	19.702	VV	1952	58641	2.02%	0.599%
283	19.776	19.702	19.793	VV	2270	98267	3.39%	1.004%
284	19.805	19.793	19.850	VV	2236	69094	2.38%	0.706%
285	19.884	19.850	19.947	VV	1963	109200	3.76%	1.116%
286	19.986	19.947	20.011	VV	3435	102599	3.54%	1.048%
287	20.044	20.011	20.075	VV	3142	101010	3.48%	1.032%
288	20.091	20.075	20.145	VV	2660	104873	3.61%	1.071%
289	20.178	20.145	20.215	VV	2957	111060	3.83%	1.135%
290	20.282	20.215	20.294	VV	2936	132824	4.58%	1.357%
291	20.336	20.294	20.391	VV	3911	180728	6.23%	1.846%
292	20.437	20.391	20.478	VV	3458	162239	5.59%	1.657%
293	20.511	20.478	20.538	VV	3579	119764	4.13%	1.223%
294	20.556	20.538	20.612	VV	3275	134875	4.65%	1.378%
295	20.618	20.612	20.631	VV	2823	31414	1.08%	0.321%
296	20.707	20.631	20.775	VV	3911	267796	9.23%	2.736%
297	20.813	20.775	20.842	VV	2920	110542	3.81%	1.129%
298	20.852	20.842	20.951	VV	2612	158772	5.47%	1.622%
299	21.026	20.951	21.080	VV	2360	172574	5.95%	1.763%

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300	21.118	21.080	21.157	VV	2576	99244	3.42%	1.014%
301	21.167	21.157	21.201	VV	1813	46405	1.60%	0.474%
302	21.226	21.201	21.258	VV	1764	56763	1.96%	0.580%
303	21.267	21.258	21.296	VV	1636	33844	1.17%	0.346%
304	21.339	21.296	21.363	VV	1616	60421	2.08%	0.617%
305	21.376	21.363	21.391	VV	1477	22882	0.79%	0.234%
306	21.399	21.391	21.448	VV	1441	42989	1.48%	0.439%
307	21.457	21.448	21.496	VV	1251	32588	1.12%	0.333%
308	21.515	21.496	21.528	VV	1205	21496	0.74%	0.220%
309	21.537	21.528	21.548	VV	1080	12724	0.44%	0.130%
310	21.581	21.548	21.638	VV	1689	67800	2.34%	0.693%
311	21.645	21.638	21.694	VV	1112	30103	1.04%	0.308%
312	21.735	21.694	21.808	VV	852	45019	1.55%	0.460%
313	21.835	21.808	21.848	VV	502	10251	0.35%	0.105%
314	21.851	21.848	21.860	VV	382	2461	0.08%	0.025%
315	21.872	21.860	21.901	VV	424	6376	0.22%	0.065%
316	21.919	21.901	21.948	VV	251	4999	0.17%	0.051%
317	21.967	21.948	21.994	PV	132	2489	0.09%	0.025%
318	22.016	21.994	22.025	VV	205	2458	0.08%	0.025%
319	22.055	22.025	22.085	VV	243	4801	0.17%	0.049%

Sum of corrected areas: 9788691

Aliphatic EPH 102324.M Tue Nov 05 16:15:18 2024

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

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	10/29/24
Project:	RFP 872	Date Received:	10/29/24
Client Sample ID:	P001-CF16-02	SDG No.:	P4620
Lab Sample ID:	P4620-29	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	95.2
Sample Wt/Vol:	30.03 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FD048655.D	1	11/03/24	11/05/24	PB164618

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	0.32	U	0.32	0.70	mg/kg
Aromatic C12-C16	Aromatic C12-C16	0.36	U	0.36	1.05	mg/kg
Aromatic C16-C21	Aromatic C16-C21	1.01	U	1.01	1.75	mg/kg
Aromatic C21-C36	Aromatic C21-C36	2.10	U	2.10	2.80	mg/kg
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	54.6		40 - 140	109%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	55.3		40 - 140	111%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	26.9		40 - 140	54%	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:	P4620-29	Acq On:	05 Nov 2024 01:09
Client Sample ID:	P001-CF16-02	Operator:	YP/AJ
Data file:	FD048655.D	Misc:	
Instrument:	FID_D	ALS Vial:	70
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic EPH	4.093	18.080	3422809	21.637		ug/ml
2-Bromonaphthalene (SURR)	7.371	7.371	8284533	54.58		ug/ml
2-Flurobiphenyl (SURR)	8.220	8.220	5425733	55.26		ug/ml
ortho-Terphenyl (SURR)	11.254	11.254	4581204	26.89		ug/ml
Aromatic C10-C12	4.093	5.811	82132	0.466	200	ug/ml
Aromatic C12-C16	5.812	8.416	53481	0.302	300	ug/ml
Aromatic C16-C21	8.417	12.676	1475248	9.005	500	ug/ml
Aromatic C21-C36	12.677	18.080	1811948	11.865	800	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD110424AR\
Data File : FD048655.D
Signal(s) : FID2B.ch
Acq On : 05 Nov 2024 01:09
Operator : YP/AJ
Sample : P4620-29
Misc :
ALS Vial : 70 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
P001-CF16-02

Integration File: autoint1.e
Quant Time: Nov 05 02:09:32 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...	7.371	8284533	54.583 ug/ml
Spiked Amount 50.000		Recovery = 109.17%	
6) S 2-Flurobiphenyl (SURR)	8.220	5425733	55.256 ug/ml
Spiked Amount 50.000 Range 0 - 131		Recovery = 110.51%	
11) S ortho-Terphenyl (SURR)	11.254	4581204	26.895 ug/ml
Spiked Amount 50.000		Recovery = 53.79%	
Target Compounds			

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

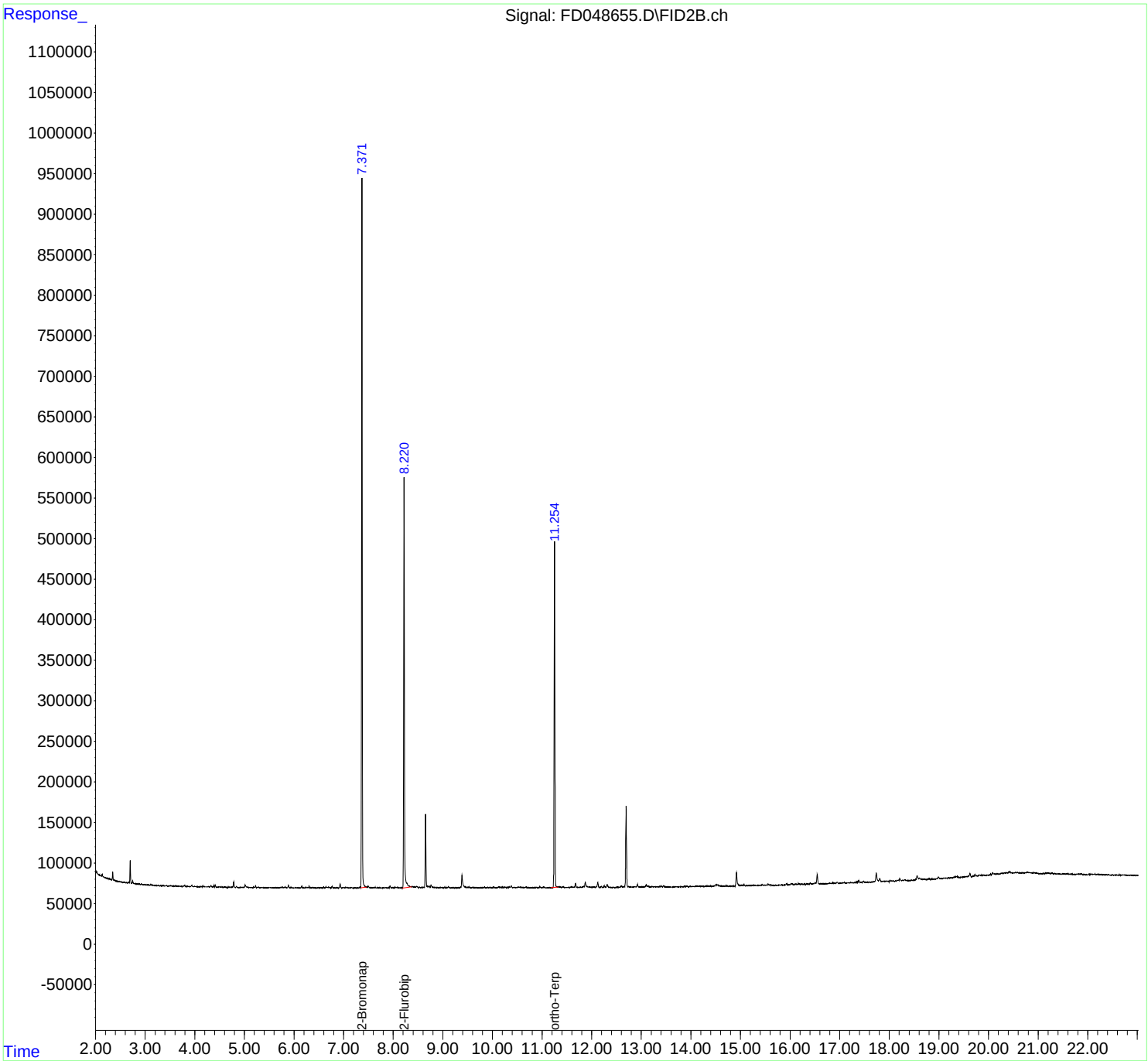
Quantitation Report (QT Reviewed)

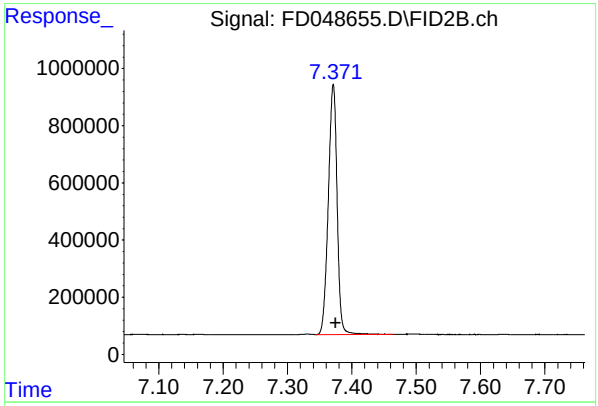
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD110424AR\
Data File : FD048655.D
Signal(s) : FID2B.ch
Acq On : 05 Nov 2024 01:09
Operator : YP/AJ
Sample : P4620-29
Misc :
ALS Vial : 70 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
P001-CF16-02

Integration File: autoint1.e
Quant Time: Nov 05 02:09:32 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

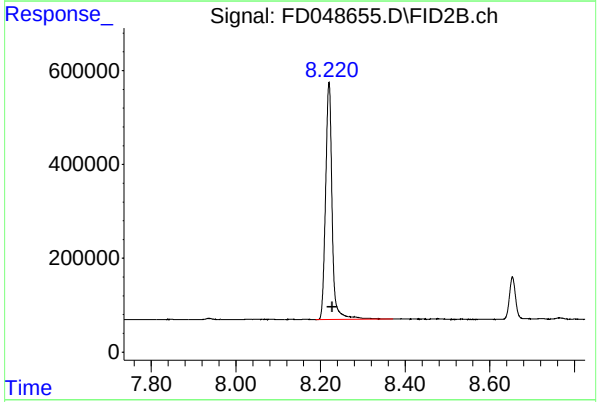




#4 2-Bromonaphthalene (SURR)

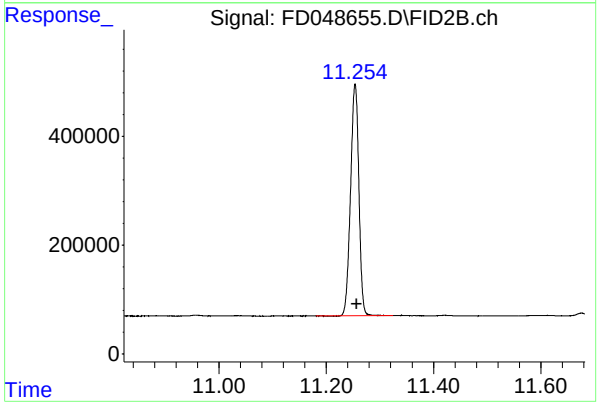
R.T.: 7.371 min
Delta R.T.: -0.004 min
Response: 8284533
Conc: 54.58 ug/ml

Instrument :
FID_D
ClientSampleId :
P001-CF16-02



#6 2-Flurobiphenyl (SURR)

R.T.: 8.220 min
Delta R.T.: -0.008 min
Response: 5425733
Conc: 55.26 ug/ml



#11 ortho-Terphenyl (SURR)

R.T.: 11.254 min
Delta R.T.: -0.003 min
Response: 4581204
Conc: 26.89 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD110424AR\
Data File : FD048655.D
Signal(s) : FID2B.ch
Acq On : 05 Nov 2024 01:09
Sample : P4620-29
Misc :
ALS Vial : 70 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	4.784	4.741	4.817	VV	6739	82132	0.99%	0.378%
2	6.931	6.894	6.970	PV	4971	53481	0.65%	0.246%
3	7.371	7.344	7.464	PV	875363	8284533	100.00%	38.152%
4	8.220	8.189	8.371	PV	510127	5425733	65.49%	24.987%
5	8.654	8.608	8.701	BV	89486	893291	10.78%	4.114%
6	9.388	9.281	9.494	BV	15242	264303	3.19%	1.217%
7	11.254	11.181	11.324	BV	426961	4581204	55.30%	21.098%
8	11.676	11.641	11.734	BV	5036	63011	0.76%	0.290%
9	11.872	11.854	11.934	VV	6327	94192	1.14%	0.434%
10	12.124	12.048	12.174	BV	6300	90739	1.10%	0.418%
11	12.310	12.281	12.371	VB	3526	69712	0.84%	0.321%
12	12.695	12.635	12.771	VV	99919	1168121	14.10%	5.380%
13	14.918	14.758	14.994	BV	16649	251009	3.03%	1.156%
14	16.546	16.520	16.591	VV	11644	160824	1.94%	0.741%
15	17.737	17.701	17.785	BV	10486	175878	2.12%	0.810%
16	17.807	17.785	17.848	VV	3553	56116	0.68%	0.258%
			Sum of corrected areas:			21714280		

Aromatic EPH 102324.M Tue Nov 05 03:39:40 2024

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

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	10/29/24
Project:	RFP 872	Date Received:	10/29/24
Client Sample ID:	P001-CF16-02	SDG No.:	P4620
Lab Sample ID:	P4620-30	Matrix:	Water
Analytical Method:	NJEPH	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :	SW3510		

Prep Date :	Date Analyzed :	Prep Batch ID
11/03/24 08:20	11/04/24 17:50	PB164637

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	5.76	U	1	5.76	30.0	ug/l	FG014649.D
Aliphatic C12-C16	Aliphatic C12-C16	3.61	U	1	3.61	20.0	ug/l	FG014649.D
Aliphatic C16-C21	Aliphatic C16-C21	5.14	U	1	5.14	30.0	ug/l	FG014649.D
Aliphatic C21-C28	Aliphatic C21-C28	8.97	U	1	8.97	40.0	ug/l	FG014649.D
Aliphatic C28-C40	Aliphatic C28-C40	17.0	U	1	17.0	60.0	ug/l	FG014649.D
Aromatic C10-C12	Aromatic C10-C12	3.32	U	1	3.32	20.0	ug/l	FF014919.D
Aromatic C12-C16	Aromatic C12-C16	3.69	U	1	3.69	30.0	ug/l	FF014919.D
Aromatic C16-C21	Aromatic C16-C21	44.9	J	1	12.7	50.0	ug/l	FF014919.D
Aromatic C21-C36	Aromatic C21-C36	25.2	U	1	25.2	80.0	ug/l	FF014919.D
Total AliphaticEPH	Total AliphaticEPH	40.5	U		40.5	180	ug/l	
Total AromaticEPH	Total AromaticEPH	44.9	U		44.9	180	ug/l	
Total EPH	Total EPH	85.4	U		85.4	360	ug/l	

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

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

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

Report of Analysis

Client:	Weston Solutions, Inc.		Date Collected:	10/29/24	
Project:	RFP 872		Date Received:	10/29/24	
Client Sample ID:	P001-CF16-02		SDG No.:	P4620	
Lab Sample ID:	P4620-30		Matrix:	Water	
Analytical Method:	NJEPH		% Solid:	0	
Sample Wt/Vol:	1000	Units: mL	Final Vol:	2000	uL
Soil Aliquot Vol:		uL	Test:	EPH	
Prep Method :	SW3510				

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FF014919.D	1	11/03/24	11/04/24	PB164637

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	3.32	U	3.32	20.0	ug/l
Aromatic C12-C16	Aromatic C12-C16	3.69	U	3.69	30.0	ug/l
Aromatic C16-C21	Aromatic C16-C21	44.9	J	12.7	50.0	ug/l
Aromatic C21-C36	Aromatic C21-C36	25.2	U	25.2	80.0	ug/l
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	58.4		40 - 140	117%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	54.9		40 - 140	110%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	51.6		40 - 140	103%	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:	P4620-30	Acq On:	04 Nov 2024 17:50
Client Sample ID:	P001-CF16-02	Operator:	YP\AJ
Data file:	FF014919.D	Misc:	
Instrument:	FID_F	ALS Vial:	74
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.508	6.372	450047	2.883	200	ug/ml
Aromatic C12-C16	6.373	9.064	321906	2.017	300	ug/ml
Aromatic C16-C21	9.065	13.375	3485121	22.429	500	ug/ml
Aromatic C21-C36	13.376	18.817	550115	3.706	800	ug/ml
Aromatic EPH	4.508	18.817	4807189	31.035		ug/ml
ortho-Terphenyl (SURR)	11.930	11.930	8249880	51.57		ug/ml
2-Bromonaphthalene (SURR)	7.994	7.994	8147040	58.42		ug/ml
2-Flurobiphenyl (SURR)	8.867	8.867	5176436	54.89		ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF110424AR\
Data File : FF014919.D
Signal(s) : FID2B.ch
Acq On : 04 Nov 2024 17:50
Operator : YP\AJ
Sample : P4620-30
Misc :
ALS Vial : 74 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
P001-CF16-02

Integration File: autoint1.e
Quant Time: Nov 05 01:27:29 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 102124.M
Quant Title : GC Extractables
QLast Update : Tue Oct 22 04:14:53 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...	7.994	8147040	58.425 ug/ml
Spiked Amount 50.000		Recovery = 116.85%	
6) S 2-Flurobiphenyl (SURR)	8.867	5176436	54.887 ug/ml
Spiked Amount 50.000 Range 0 - 131		Recovery = 109.77%	
11) S ortho-Terphenyl (SURR)	11.930	8249880	51.569 ug/ml
Spiked Amount 50.000		Recovery = 103.14%	
Target Compounds			

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

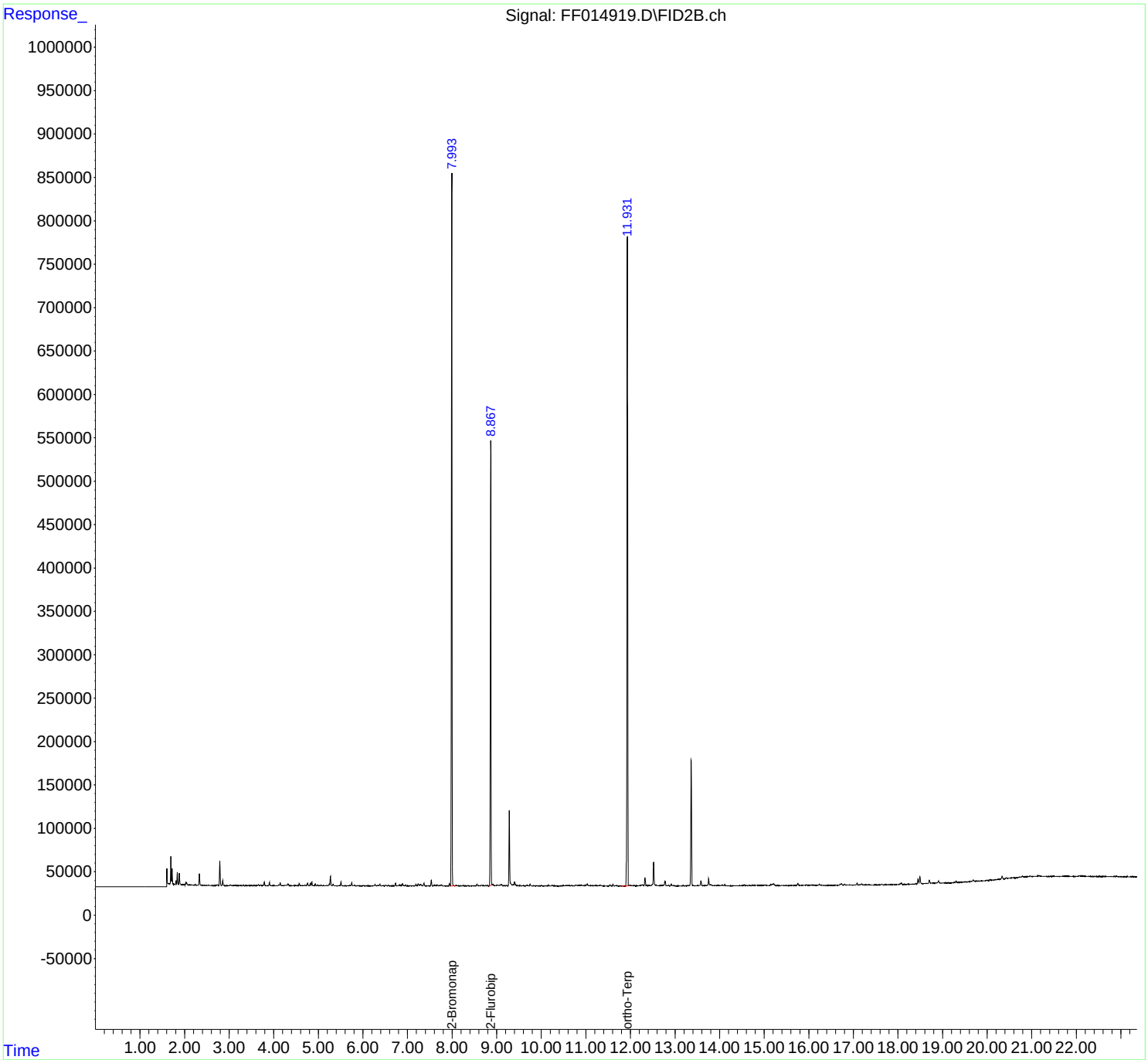
Quantitation Report (QT Reviewed)

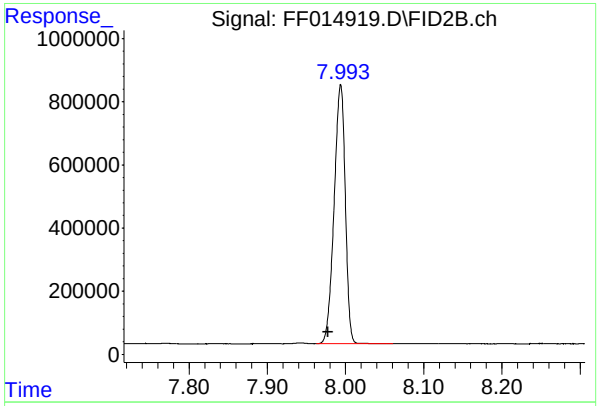
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF110424AR\
Data File : FF014919.D
Signal(s) : FID2B.ch
Acq On : 04 Nov 2024 17:50
Operator : YP\AJ
Sample : P4620-30
Misc :
ALS Vial : 74 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
P001-CF16-02

Integration File: autoint1.e
Quant Time: Nov 05 01:27:29 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 102124.M
Quant Title : GC Extractables
QLast Update : Tue Oct 22 04:14:53 2024
Response via : Initial Calibration
Integrator: ChemStation

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

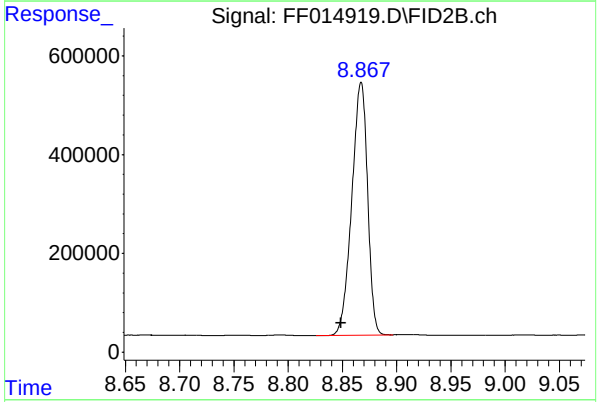




#4 2-Bromonaphthalene (SURR)

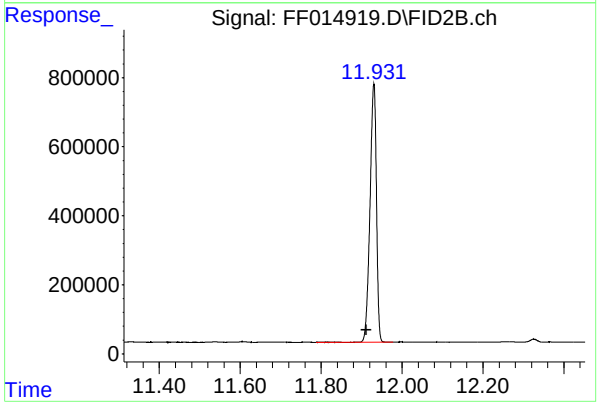
R.T.: 7.994 min
Delta R.T.: 0.016 min
Response: 8147040
Conc: 58.42 ug/ml

Instrument :
FID_F
ClientSampleId :
P001-CF16-02



#6 2-Flurobiphenyl (SURR)

R.T.: 8.867 min
Delta R.T.: 0.018 min
Response: 5176436
Conc: 54.89 ug/ml



#11 ortho-Terphenyl (SURR)

R.T.: 11.930 min
Delta R.T.: 0.018 min
Response: 8249880
Conc: 51.57 ug/ml

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF110424AR\
Data File : FF014919.D
Signal(s) : FID2B.ch
Acq On : 04 Nov 2024 17:50
Sample : P4620-30
Misc :
ALS Vial : 74 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 102124.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	4.571	4.522	4.593	BV	2300	23977	0.29%	0.091%
2	4.759	4.716	4.782	PV	3183	37861	0.46%	0.144%
3	4.822	4.782	4.838	VV	2994	33625	0.41%	0.127%
4	4.855	4.838	4.881	VB	4639	46821	0.57%	0.177%
5	4.928	4.909	4.962	BV	2076	22982	0.28%	0.087%
6	5.272	5.226	5.304	BV	10696	144639	1.75%	0.548%
7	5.333	5.304	5.367	PV	2091	25187	0.31%	0.095%
8	5.509	5.489	5.547	VB	4692	49124	0.60%	0.186%
9	5.750	5.727	5.791	VV	3777	39546	0.48%	0.150%
10	6.273	6.206	6.306	BV	1778	26285	0.32%	0.100%
11	6.379	6.356	6.407	VB	1932	20833	0.25%	0.079%
12	6.732	6.684	6.756	BV	3409	34693	0.42%	0.132%
13	6.887	6.871	6.909	VV	2685	26633	0.32%	0.101%
14	7.187	7.097	7.219	BV	1647	27009	0.33%	0.102%
15	7.241	7.219	7.277	VV	2526	43957	0.53%	0.167%
16	7.370	7.339	7.414	VB	3243	42938	0.52%	0.163%
17	7.535	7.507	7.565	BV	6834	75056	0.91%	0.285%
18	7.942	7.901	7.962	BV	2616	26510	0.32%	0.100%
19	7.994	7.962	8.061	PV	824011	8147040	98.75%	30.883%
20	8.558	8.404	8.578	BV	1936	24277	0.29%	0.092%
21	8.867	8.826	8.897	BV	513619	5176436	62.75%	19.622%
22	9.285	9.242	9.350	PV	86663	938573	11.38%	3.558%
23	9.401	9.376	9.424	VV	3852	47612	0.58%	0.180%
24	9.750	9.716	9.797	BB	2167	28048	0.34%	0.106%
25	11.033	10.975	11.067	VB	2260	42599	0.52%	0.161%
26	11.607	11.562	11.636	PV	1833	25213	0.31%	0.096%
27	11.930	11.787	11.977	PV	751207	8249880	100.00%	31.273%
28	12.326	12.291	12.351	VV	9249	116212	1.41%	0.441%
29	12.518	12.452	12.631	VV	27058	387487	4.70%	1.469%
30	12.775	12.631	12.819	VV	5656	133746	1.62%	0.507%
31	12.915	12.877	12.936	PV	2182	25532	0.31%	0.097%
32	13.361	13.294	13.392	VV	144491	1740099	21.09%	6.596%
33	13.580	13.499	13.619	BV	5698	83957	1.02%	0.318%
34	13.751	13.672	13.781	BV	7399	75498	0.92%	0.286%
35	14.113	14.087	14.156	PB	1790	24604	0.30%	0.093%
36	15.754	15.689	15.807	BB	2004	29447	0.36%	0.112%

rteres

37	16.731	16.717	16.777	VV	1767	24996	0.30%	0.095%
38	17.081	17.017	17.134	BB	1998	29630	0.36%	0.112%
39	18.074	17.992	18.104	BB	1995	35792	0.43%	0.136%
40	18.448	18.416	18.469	PV	5532	72882	0.88%	0.276%
41	18.491	18.469	18.544	VB	8301	124802	1.51%	0.473%
42	18.701	18.641	18.731	BB	3817	48507	0.59%	0.184%

Sum of corrected areas: 26380546

Aromatic EPH 102124.M Tue Nov 05 02:01:09 2024

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

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	10/29/24
Project:	RFP 872	Date Received:	10/29/24
Client Sample ID:	P001-CF16-02	SDG No.:	P4620
Lab Sample ID:	P4620-30	Matrix:	Water
Analytical Method:	NJEPH	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :	SW3510		

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FG014649.D	1	11/03/24	11/04/24	PB164637

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C12	Aliphatic C9-C12	5.76	U	5.76	30.0	ug/l
Aliphatic C12-C16	Aliphatic C12-C16	3.61	U	3.61	20.0	ug/l
Aliphatic C16-C21	Aliphatic C16-C21	5.14	U	5.14	30.0	ug/l
Aliphatic C21-C28	Aliphatic C21-C28	8.97	U	8.97	40.0	ug/l
Aliphatic C28-C40	Aliphatic C28-C40	17.0	U	17.0	60.0	ug/l
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	58.3		40 - 140	117%	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:	P4620-30	Acq On:	04 Nov 2024 17:50
Client Sample ID:	P001-CF16-02	Operator:	YP\AJ
Data file:	FG014649.D	Misc:	
Instrument:	FID_G	ALS Vial:	24
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.228	6.849	136331	1.038	300	ug/ml
Aliphatic C12-C16	6.850	10.292	322956	2.378	200	ug/ml
Aliphatic C16-C21	10.293	13.665	44553	0.315	300	ug/ml
Aliphatic C21-C28	13.666	17.329	0	0	400	ug/ml
Aliphatic C28-C40	17.330	22.266	248219	2.349	600	ug/ml
Aliphatic EPH	3.228	22.266	752059	6.08		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	13.398	13.398	7158664	58.3		ug/ml
Aliphatic C9-C28	3.228	17.329	503840	3.731	1200	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG110424AL\
Data File : FG014649.D
Signal(s) : FID1A.ch
Acq On : 04 Nov 2024 17:50
Operator : YP\AJ
Sample : P4620-30
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
P001-CF16-02

Integration File: autoint1.e
Quant Time: Nov 05 00:38:18 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 102124.M
Quant Title : GC Extractables
QLast Update : Tue Oct 22 06:49:54 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...	13.398	7158664	58.300 ug/ml
Spiked Amount 50.000		Recovery = 116.60%	
Target Compounds			

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

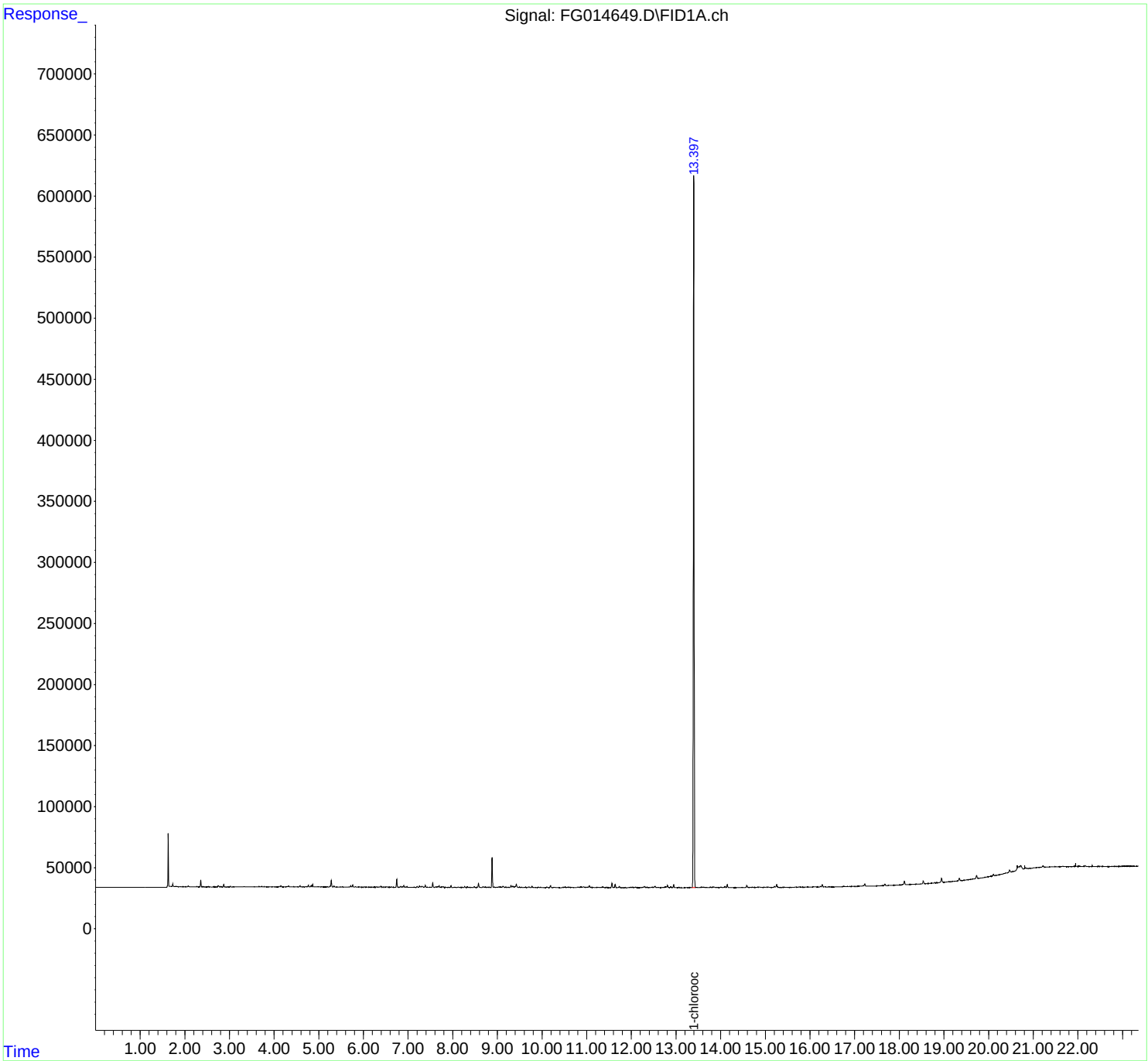
Quantitation Report (QT Reviewed)

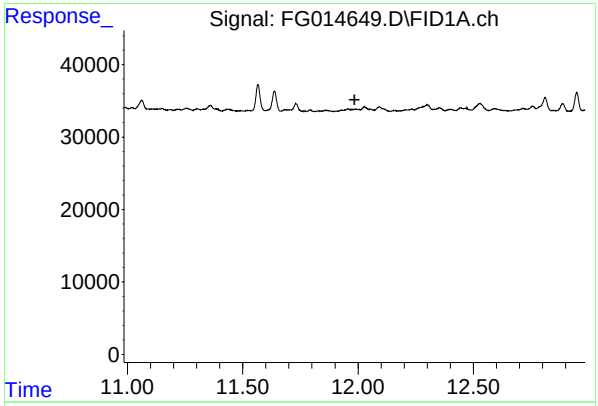
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG110424AL\
Data File : FG014649.D
Signal(s) : FID1A.ch
Acq On : 04 Nov 2024 17:50
Operator : YP\AJ
Sample : P4620-30
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
P001-CF16-02

Integration File: autoint1.e
Quant Time: Nov 05 00:38:18 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 102124.M
Quant Title : GC Extractables
QLast Update : Tue Oct 22 06:49:54 2024
Response via : Initial Calibration
Integrator: ChemStation

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

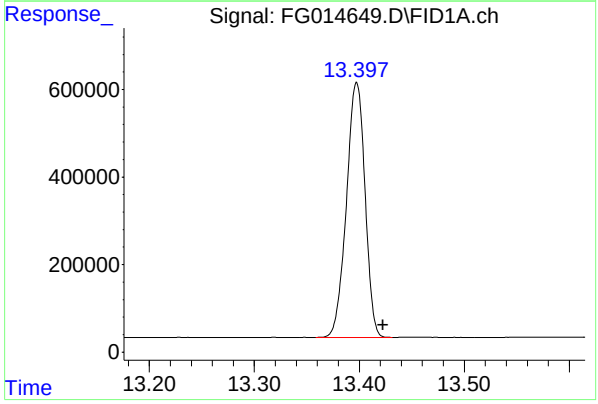




#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.984 min
Response: 0
Conc: N.D.

Instrument :
FID_G
ClientSampleId :
P001-CF16-02



#12 1-chlorooctadecane (SURR)

R.T.: 13.398 min
Delta R.T.: -0.025 min
Response: 7158664
Conc: 58.30 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG110424AL\
Data File : FG014649.D
Signal(s) : FID1A.ch
Acq On : 04 Nov 2024 17:50
Sample : P4620-30
Misc :
ALS Vial : 24 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 102124.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	5.280	5.228	5.313	BB	5498	70361	0.98%	0.889%
2	6.747	6.723	6.773	BB	6566	65970	0.92%	0.834%
3	7.553	7.529	7.581	BB	3711	38675	0.54%	0.489%
4	8.578	8.552	8.606	BB	3321	35808	0.50%	0.453%
5	8.882	8.857	8.912	BB	24584	248473	3.47%	3.141%
6	11.566	11.536	11.598	BB	3643	44553	0.62%	0.563%
7	13.398	13.358	13.432	BB	583195	7158664	100.00%	90.493%
8	18.946	18.908	18.980	BB	3425	46845	0.65%	0.592%
9	20.643	20.595	20.780	BB	4161	201374	2.81%	2.546%
			Sum of corrected areas:			7910722		

Aliphatic EPH 102124.M Tue Nov 05 01:20:07 2024

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

Report of Analysis

Client:	Weston Solutions, Inc.		Date Collected:		
Project:	RFP 872		Date Received:		
Client Sample ID:	PB164637TB		SDG No.:	P4620	
Lab Sample ID:	PB164637TB		Matrix:	water	
Analytical Method:	NJEPH		% Solid:	0	
Sample Wt/Vol:	1000 Units:	mL	Final Vol:	2000	uL
Soil Aliquot Vol:		uL	Test:	EPH	
Prep Method :	SW3510				

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FG014652.D	1		11/04/24	FG110424AL

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C12	Aliphatic C9-C12	5.76	U	5.76	30.0	ug/l
Aliphatic C12-C16	Aliphatic C12-C16	3.61	U	3.61	20.0	ug/l
Aliphatic C16-C21	Aliphatic C16-C21	5.14	U	5.14	30.0	ug/l
Aliphatic C21-C28	Aliphatic C21-C28	8.97	U	8.97	40.0	ug/l
Aliphatic C28-C40	Aliphatic C28-C40	17.0	U	17.0	60.0	ug/l
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	43.5		40 - 140	87%	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:	PB164637TB	Acq On:	04 Nov 2024 19:14
Client Sample ID:	PB164637TB	Operator:	YP\AJ
Data file:	FG014652.D	Misc:	
Instrument:	FID_G	ALS Vial:	27
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.228	6.849	0	0	300	ug/ml
Aliphatic C12-C16	6.850	10.292	0	0	200	ug/ml
Aliphatic C16-C21	10.293	13.665	0	0	300	ug/ml
Aliphatic C21-C28	13.666	17.329	0	0	400	ug/ml
Aliphatic C28-C40	17.330	22.266	0	0	600	ug/ml
Aliphatic EPH	3.228	22.266	0	0		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	13.397	13.397	5348144	43.55		ug/ml
Aliphatic C9-C28	3.228	17.329	0	0	1200	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG110424AL\
Data File : FG014652.D
Signal(s) : FID1A.ch
Acq On : 04 Nov 2024 19:14
Operator : YP\AJ
Sample : PB164637TB
Misc :
ALS Vial : 27 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
PB164637TB

Integration File: autoint1.e
Quant Time: Nov 05 00:38:49 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 102124.M
Quant Title : GC Extractables
QLast Update : Tue Oct 22 06:49:54 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...	13.397	5348144	43.555 ug/ml
Spiked Amount 50.000		Recovery = 87.11%	
Target Compounds			

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

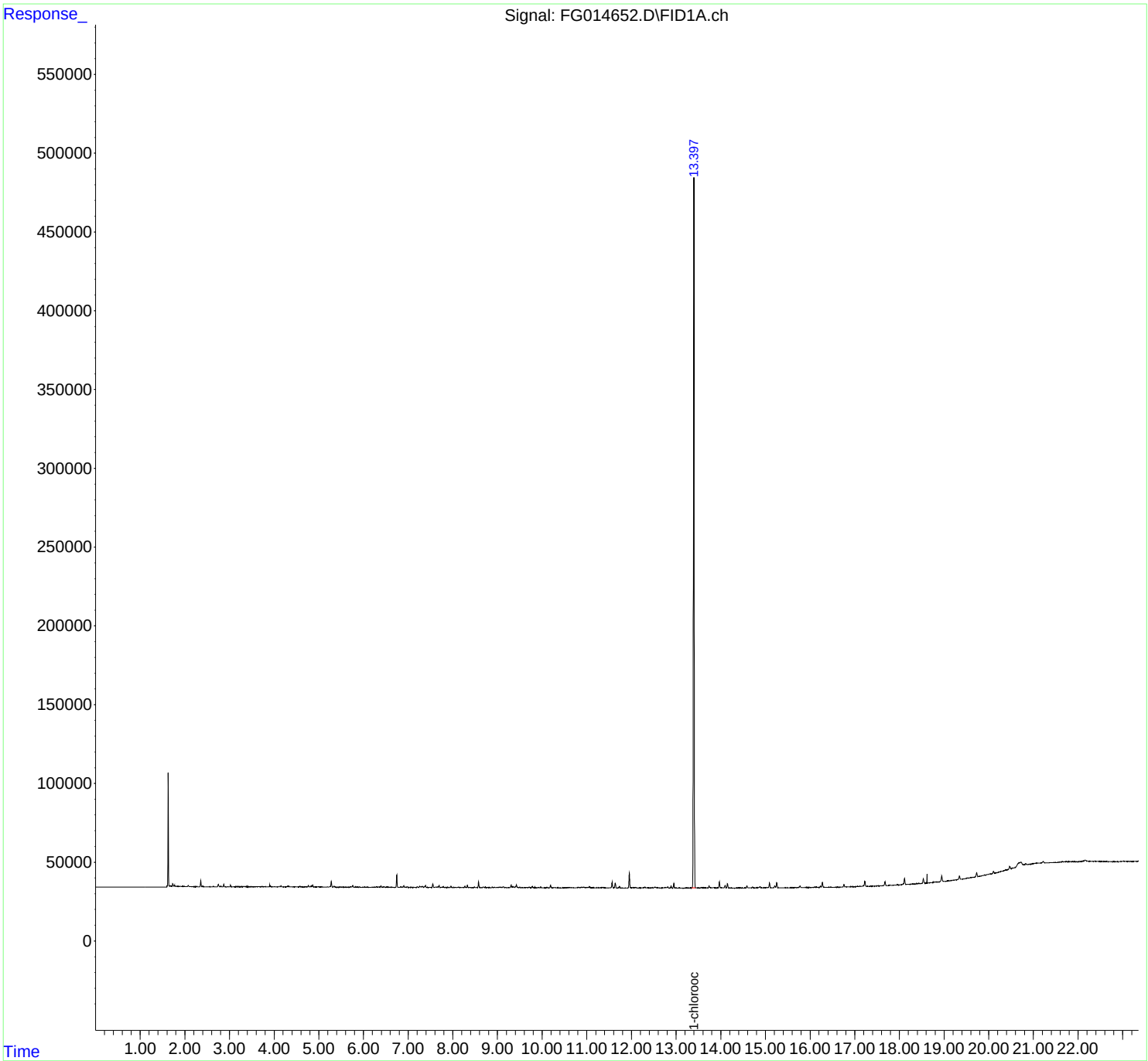
Quantitation Report (QT Reviewed)

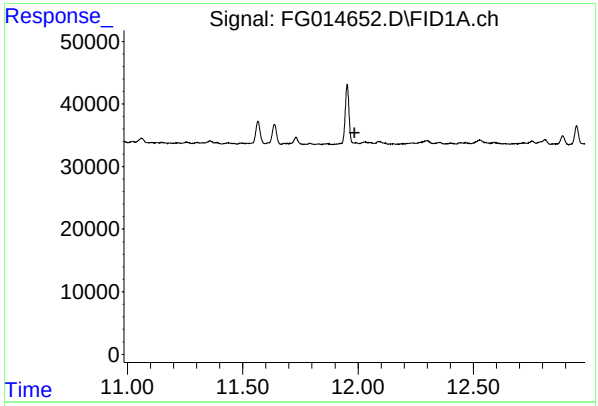
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG110424AL\
Data File : FG014652.D
Signal(s) : FID1A.ch
Acq On : 04 Nov 2024 19:14
Operator : YP\AJ
Sample : PB164637TB
Misc :
ALS Vial : 27 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
PB164637TB

Integration File: autoint1.e
Quant Time: Nov 05 00:38:49 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 102124.M
Quant Title : GC Extractables
QLast Update : Tue Oct 22 06:49:54 2024
Response via : Initial Calibration
Integrator: ChemStation

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

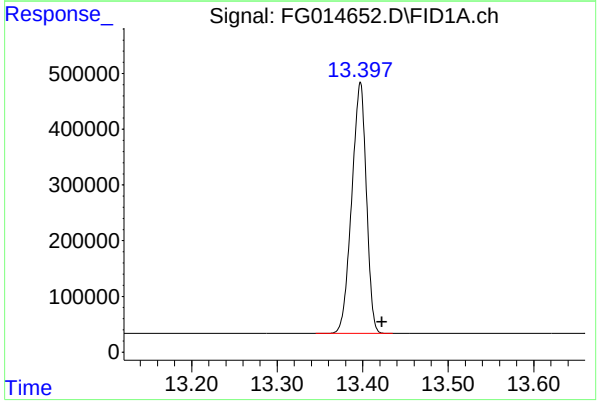




#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.984 min
Response: 0
Conc: N.D.

Instrument :
FID_G
ClientSampleId :
PB164637TB



#12 1-chlorooctadecane (SURR)

R.T.: 13.397 min
Delta R.T.: -0.025 min
Response: 5348144
Conc: 43.55 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG110424AL\
Data File : FG014652.D
Signal(s) : FID1A.ch
Acq On : 04 Nov 2024 19:14
Sample : PB164637TB
Misc :
ALS Vial : 27 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 102124.M
Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	13.397	13.345	13.435	BB	451454	5348144	100.00%	100.000%

Sum of corrected areas: 5348144

Aliphatic EPH 102124.M Tue Nov 05 01:22:46 2024

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Fax : 908 789 8922

Report of Analysis

Client:	Weston Solutions, Inc.		Date Collected:		
Project:	RFP 872		Date Received:		
Client Sample ID:	PB164637TB		SDG No.:	P4620	
Lab Sample ID:	PB164637TB		Matrix:	water	
Analytical Method:	NJEPH		% Solid:	0	
Sample Wt/Vol:	1000	Units: mL	Final Vol:	2000	uL
Soil Aliquot Vol:		uL	Test:	EPH	
Prep Method :	SW3510				

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FF014922.D	1		11/04/24	FF110424AR

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	3.32	U	3.32	20.0	ug/l
Aromatic C12-C16	Aromatic C12-C16	3.69	U	3.69	30.0	ug/l
Aromatic C16-C21	Aromatic C16-C21	12.7	U	12.7	50.0	ug/l
Aromatic C21-C36	Aromatic C21-C36	25.2	U	25.2	80.0	ug/l
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	47.6		40 - 140	95%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	47.5		40 - 140	95%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	39.6		40 - 140	79%	SPK: 50

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Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	PB164637TB	Acq On:	04 Nov 2024 19:14
Client Sample ID:	PB164637TB	Operator:	YP\AJ
Data file:	FF014922.D	Misc:	
Instrument:	FID_F	ALS Vial:	77
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.508	6.372	0	0	200	ug/ml
Aromatic C12-C16	6.373	9.064	0	0	300	ug/ml
Aromatic C16-C21	9.065	13.375	0	0	500	ug/ml
Aromatic C21-C36	13.376	18.817	0	0	800	ug/ml
Aromatic EPH	4.508	18.817	0	0		ug/ml
ortho-Terphenyl (SURR)	11.928	11.928	6328133	39.56		ug/ml
2-Bromonaphthalene (SURR)	7.992	7.992	6633697	47.57		ug/ml
2-Flurobiphenyl (SURR)	8.866	8.866	4480485	47.51		ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF110424AR\
Data File : FF014922.D
Signal(s) : FID2B.ch
Acq On : 04 Nov 2024 19:14
Operator : YP\AJ
Sample : PB164637TB
Misc :
ALS Vial : 77 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
PB164637TB

Integration File: autoint1.e
Quant Time: Nov 05 01:27:58 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 102124.M
Quant Title : GC Extractables
QLast Update : Tue Oct 22 04:14:53 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...	7.992	6633697	47.572 ug/ml
Spiked Amount 50.000		Recovery =	95.14%
6) S 2-Flurobiphenyl (SURR)	8.866	4480485	47.508 ug/ml
Spiked Amount 50.000 Range 0 - 131		Recovery =	95.02%
11) S ortho-Terphenyl (SURR)	11.928	6328133	39.556 ug/ml
Spiked Amount 50.000		Recovery =	79.11%
Target Compounds			

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

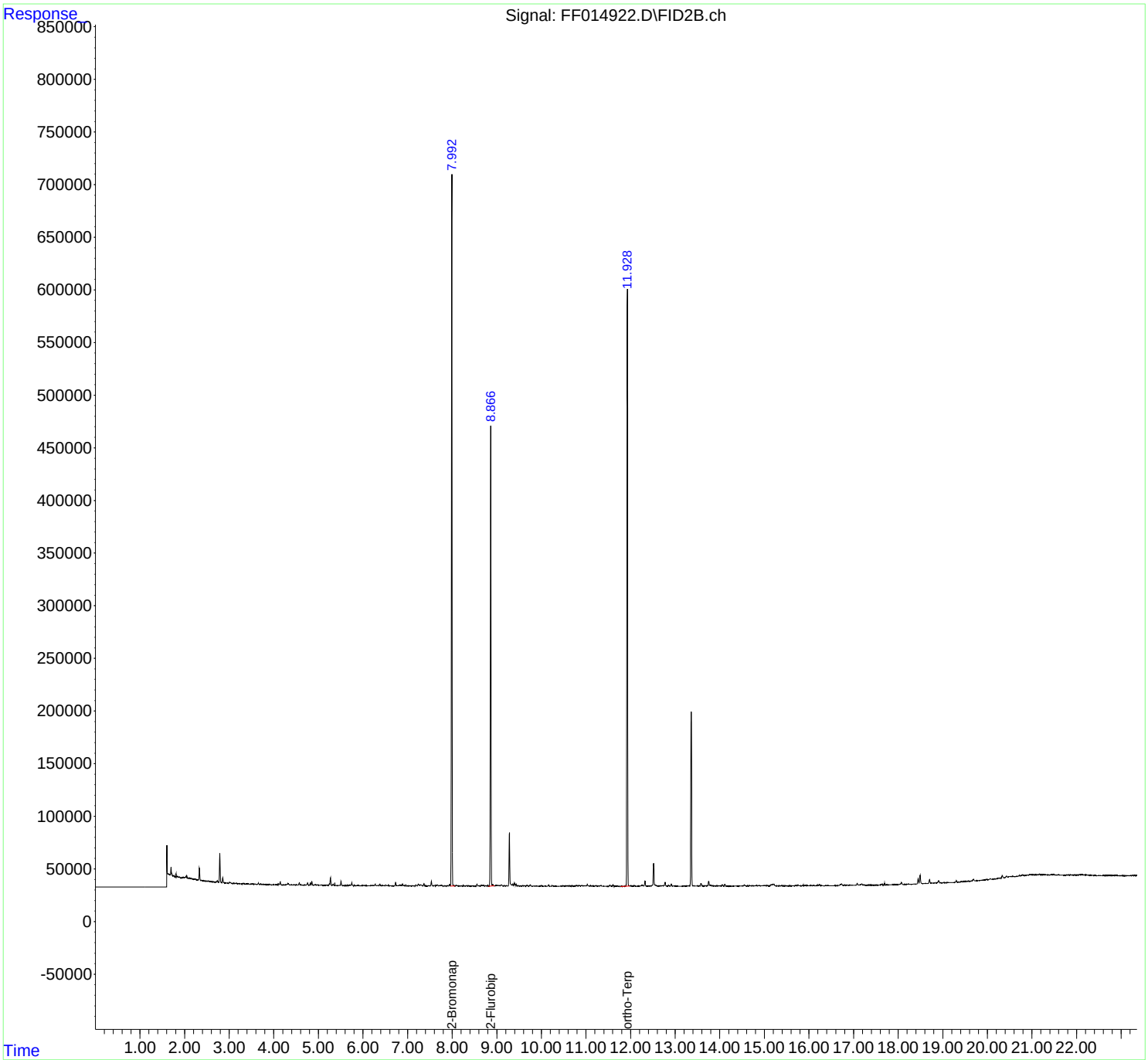
Quantitation Report (QT Reviewed)

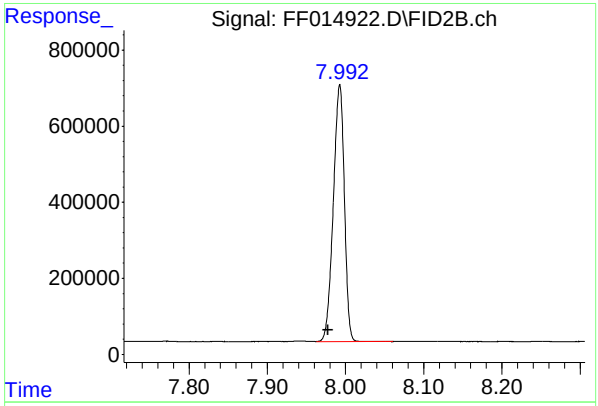
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF110424AR\
Data File : FF014922.D
Signal(s) : FID2B.ch
Acq On : 04 Nov 2024 19:14
Operator : YP\AJ
Sample : PB164637TB
Misc :
ALS Vial : 77 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
PB164637TB

Integration File: autoint1.e
Quant Time: Nov 05 01:27:58 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 102124.M
Quant Title : GC Extractables
QLast Update : Tue Oct 22 04:14:53 2024
Response via : Initial Calibration
Integrator: ChemStation

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

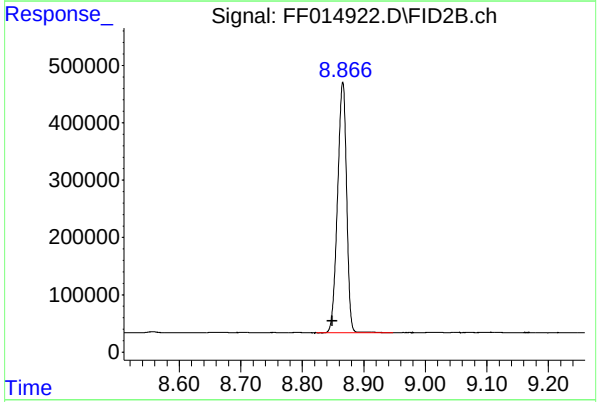




#4 2-Bromonaphthalene (SURR)

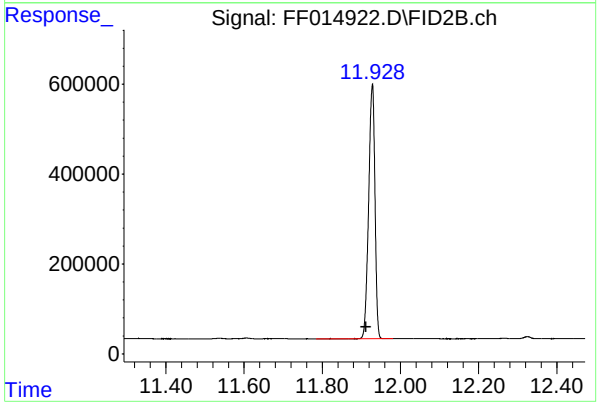
R.T.: 7.992 min
Delta R.T.: 0.015 min
Response: 6633697
Conc: 47.57 ug/ml

Instrument :
FID_F
ClientSampleId :
PB164637TB



#6 2-Flurobiphenyl (SURR)

R.T.: 8.866 min
Delta R.T.: 0.017 min
Response: 4480485
Conc: 47.51 ug/ml



#11 ortho-Terphenyl (SURR)

R.T.: 11.928 min
Delta R.T.: 0.016 min
Response: 6328133
Conc: 39.56 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF110424AR\
Data File : FF014922.D
Signal(s) : FID2B.ch
Acq On : 04 Nov 2024 19:14
Sample : PB164637TB
Misc :
ALS Vial : 77 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 102124.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	7.992	7.962	8.061	PV	676353	6633697	100.00%	38.032%
2	8.866	8.822	8.947	BV	438353	4480485	67.54%	25.687%
3	11.928	11.784	11.981	BV	563270	6328133	95.39%	36.280%
			Sum of corrected areas:			17442314		

Aromatic EPH 102124.M Tue Nov 05 02:03:40 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.

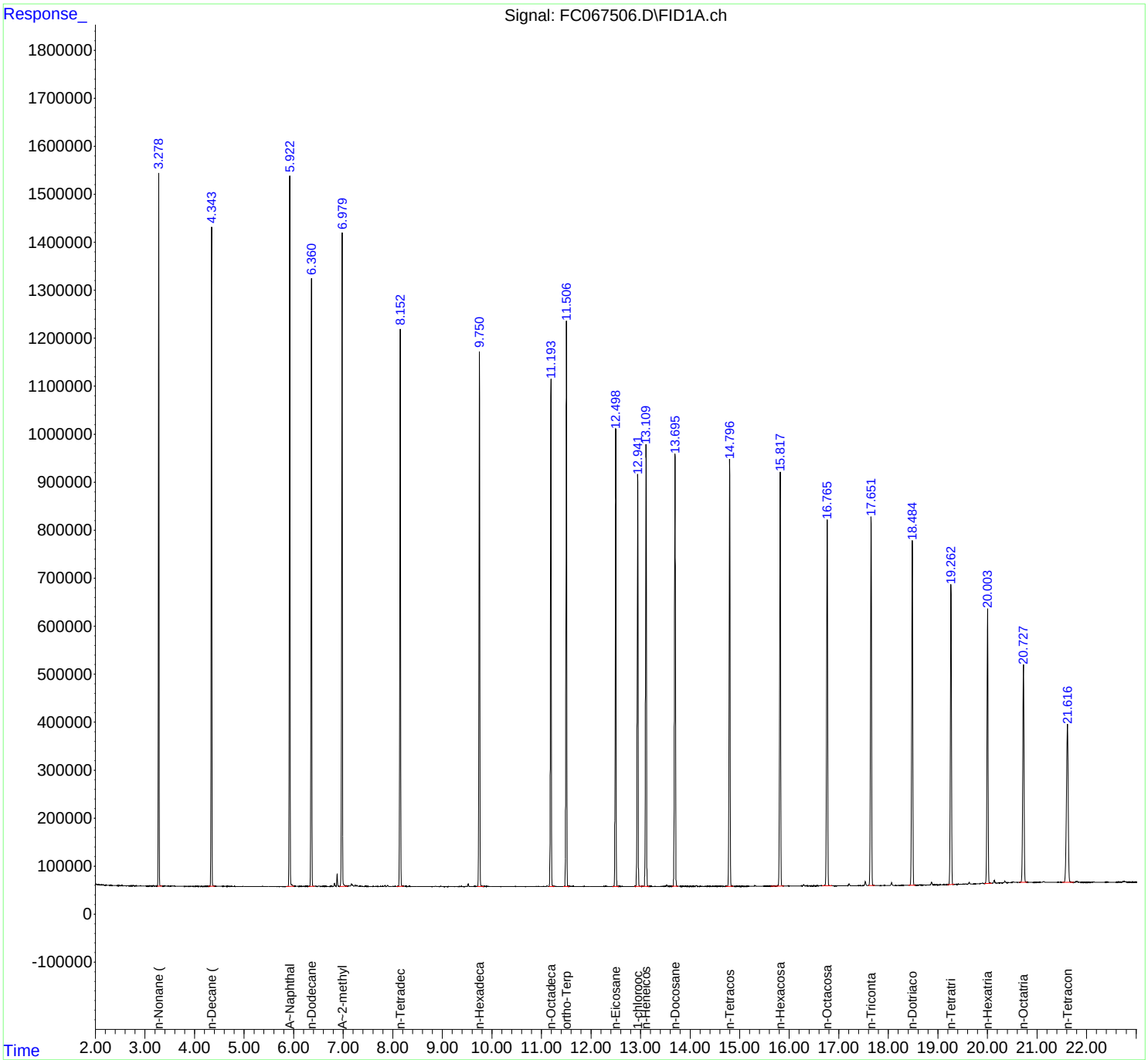
Quantitation Report (QT Reviewed)

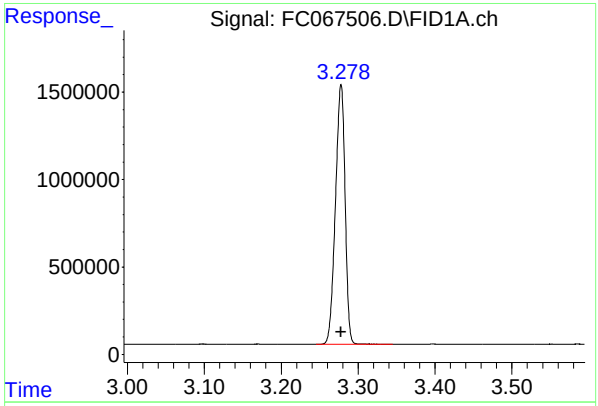
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC102324AL\
Data File : FC067506.D
Signal(s) : FID1A.ch
Acq On : 23 Oct 2024 15:12
Operator : YP/AJ
Sample : 100 PPM ALIPHATIC HC STD1
Misc :
ALS Vial : 11 Sample Multiplier: 1

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

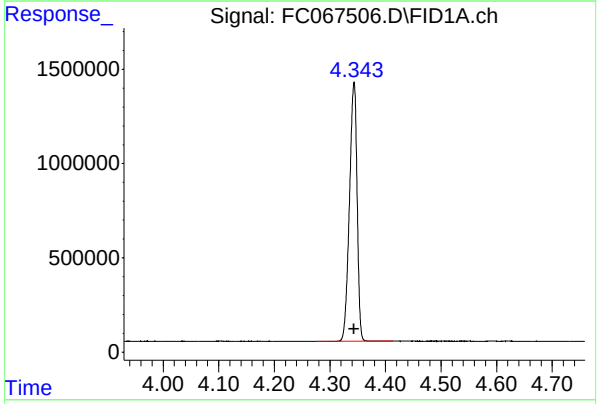




#1 n-Nonane (C9)

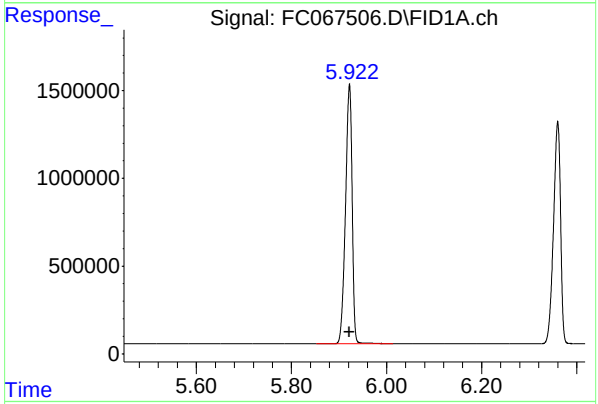
R.T.: 3.278 min
Delta R.T.: 0.000 min
Response: 12920314
Conc: 98.30 ug/ml

Instrument :
FID_C
ClientSampleId :
100 PPM ALIPHATIC HC STD1



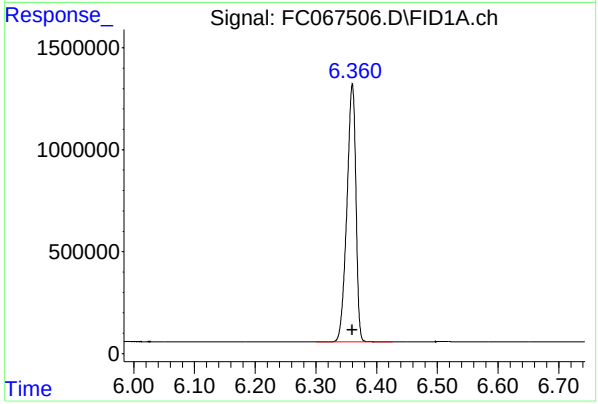
#2 n-Decane (C10)

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



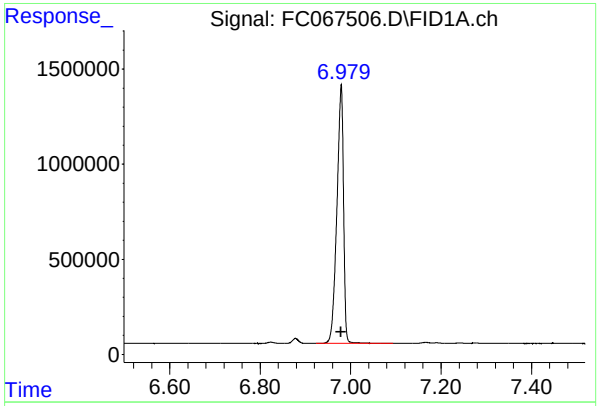
#3 A~Naphthalene (C11.7)

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



#4 n-Dodecane (C12)

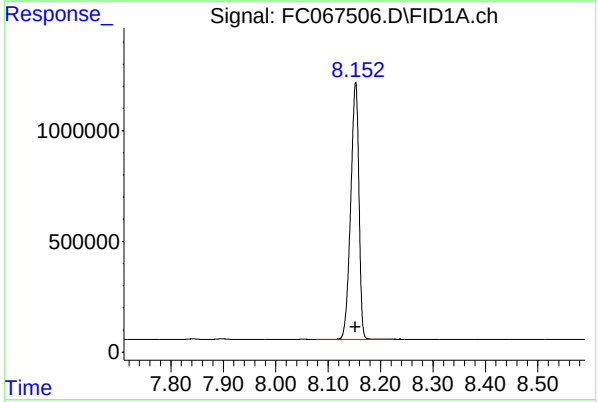
R.T.: 6.360 min
Delta R.T.: 0.000 min
Response: 13016771
Conc: 98.45 ug/ml



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

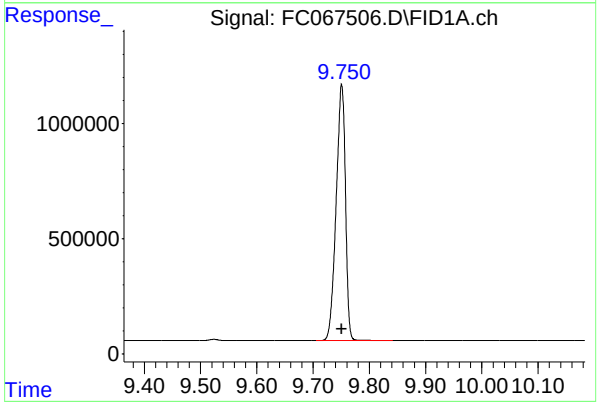
R.T.: 6.979 min
Delta R.T.: 0.000 min
Response: 13836866
Conc: 99.33 ug/ml

Instrument :
FID_C
ClientSampleId :
100 PPM ALIPHATIC HC STD1



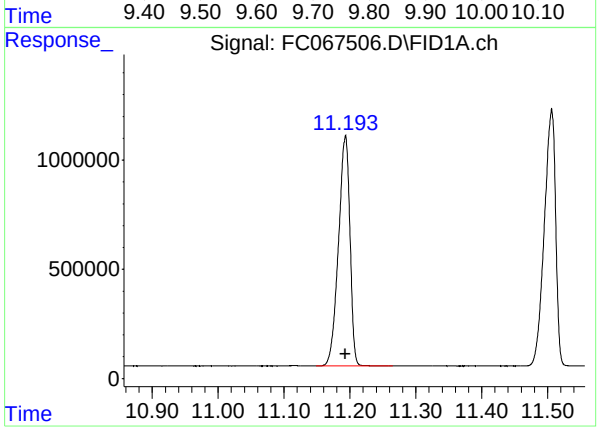
#6 n-Tetradecane (C14)

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



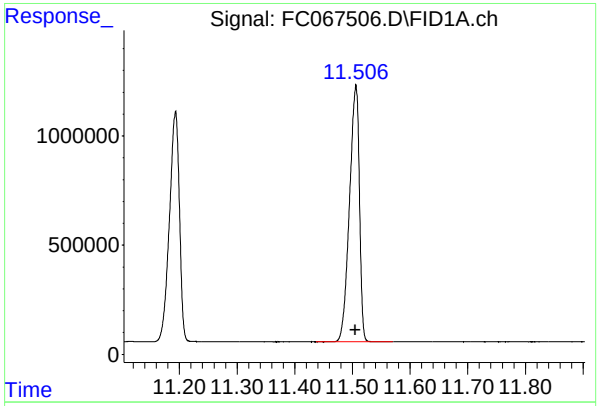
#7 n-Hexadecane (C16)

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



#8 n-Octadecane (C18)

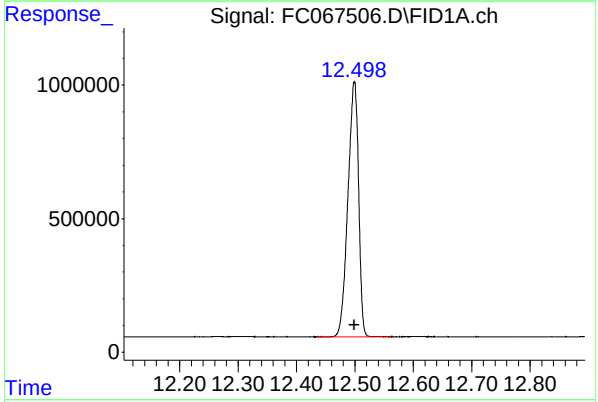
R.T.: 11.193 min
Delta R.T.: 0.000 min
Response: 12738874
Conc: 98.79 ug/ml



#9 ortho-Terphenyl (SURR)

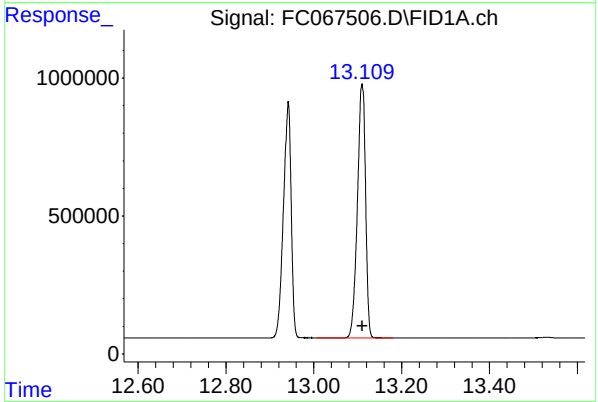
R.T.: 11.506 min
Delta R.T.: 0.000 min
Response: 14037783
Conc: 98.63 ug/ml

Instrument :
FID_C
ClientSampleId :
100 PPM ALIPHATIC HC STD1



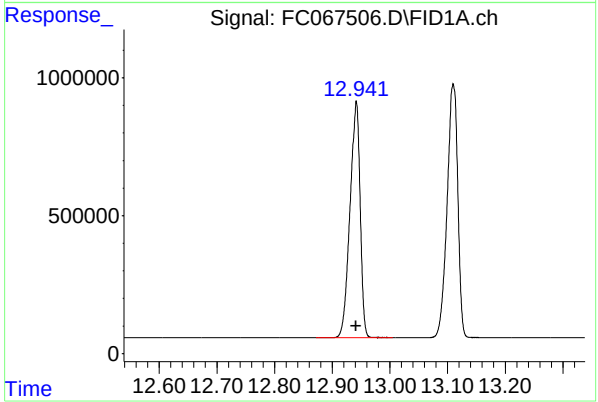
#10 n-Eicosane (C20)

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



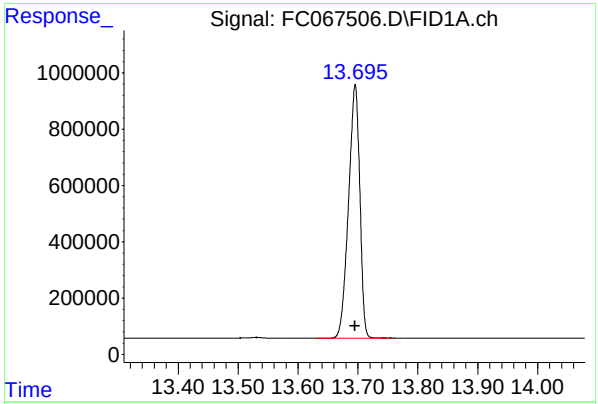
#11 n-Heneicosane (C21)

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



#12 1-chlorooctadecane (SURR)

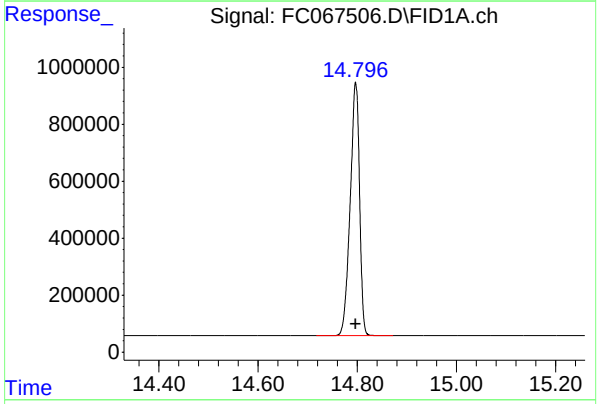
R.T.: 12.941 min
Delta R.T.: 0.000 min
Response: 10490435
Conc: 99.22 ug/ml



#13 n-Docosane (C22)

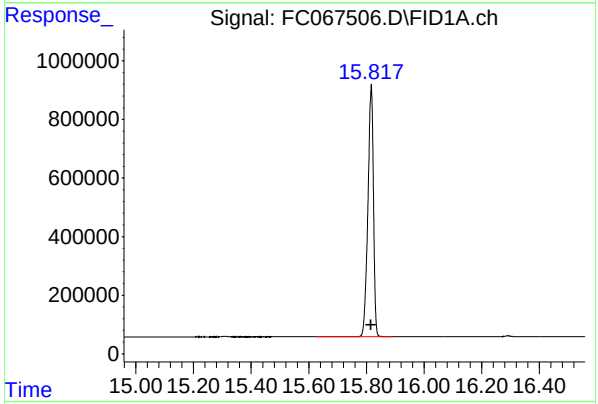
R.T.: 13.695 min
Delta R.T.: 0.000 min
Response: 11751176
Conc: 98.74 ug/ml

Instrument :
FID_C
ClientSampleId :
100 PPM ALIPHATIC HC STD1



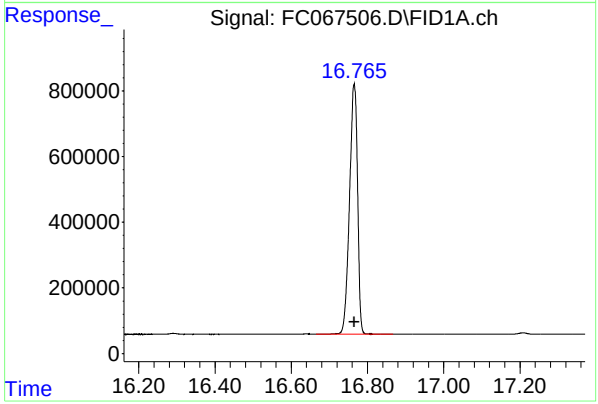
#14 n-Tetracosane (C24)

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



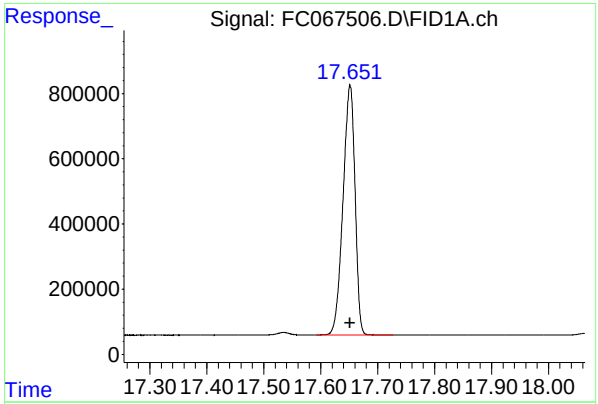
#15 n-Hexacosane (C26)

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



#16 n-Octacosane (C28)

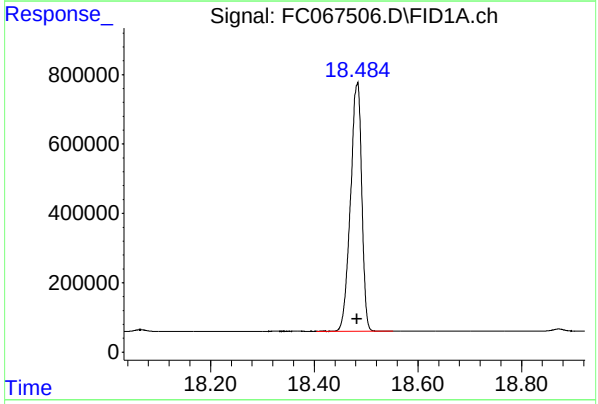
R.T.: 16.765 min
Delta R.T.: 0.000 min
Response: 11146972
Conc: 98.03 ug/ml



#17 n-Tricontane (C30)

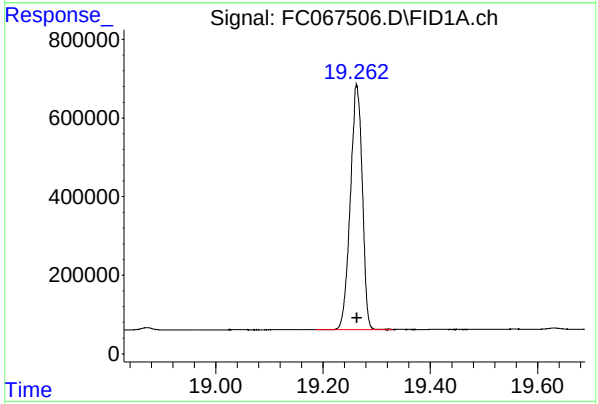
R.T.: 17.651 min
Delta R.T.: 0.000 min
Response: 11224678
Conc: 97.10 ug/ml

Instrument :
FID_C
ClientSampleId :
100 PPM ALIPHATIC HC STD1



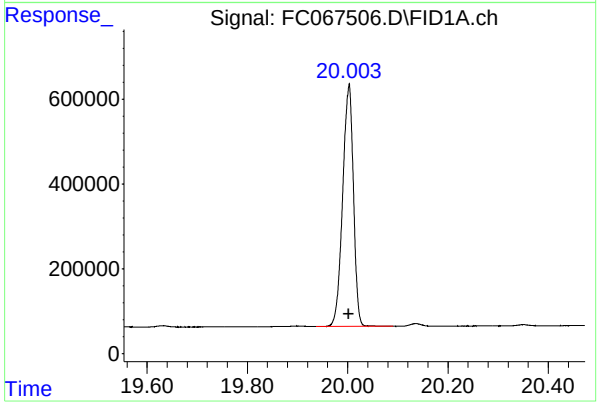
#18 n-Dotriacontane (C32)

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



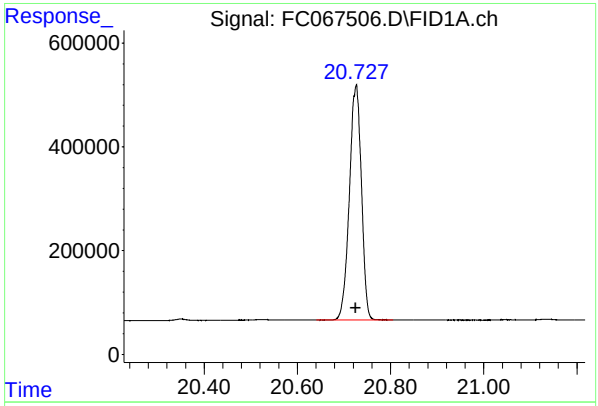
#19 n-Tetratriacontane (C34)

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



#20 n-Hexatriacontane (C36)

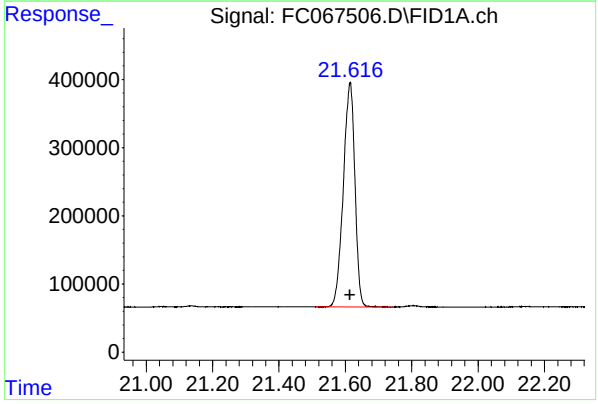
R.T.: 20.002 min
Delta R.T.: 0.000 min
Response: 8494635
Conc: 97.26 ug/ml



#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.

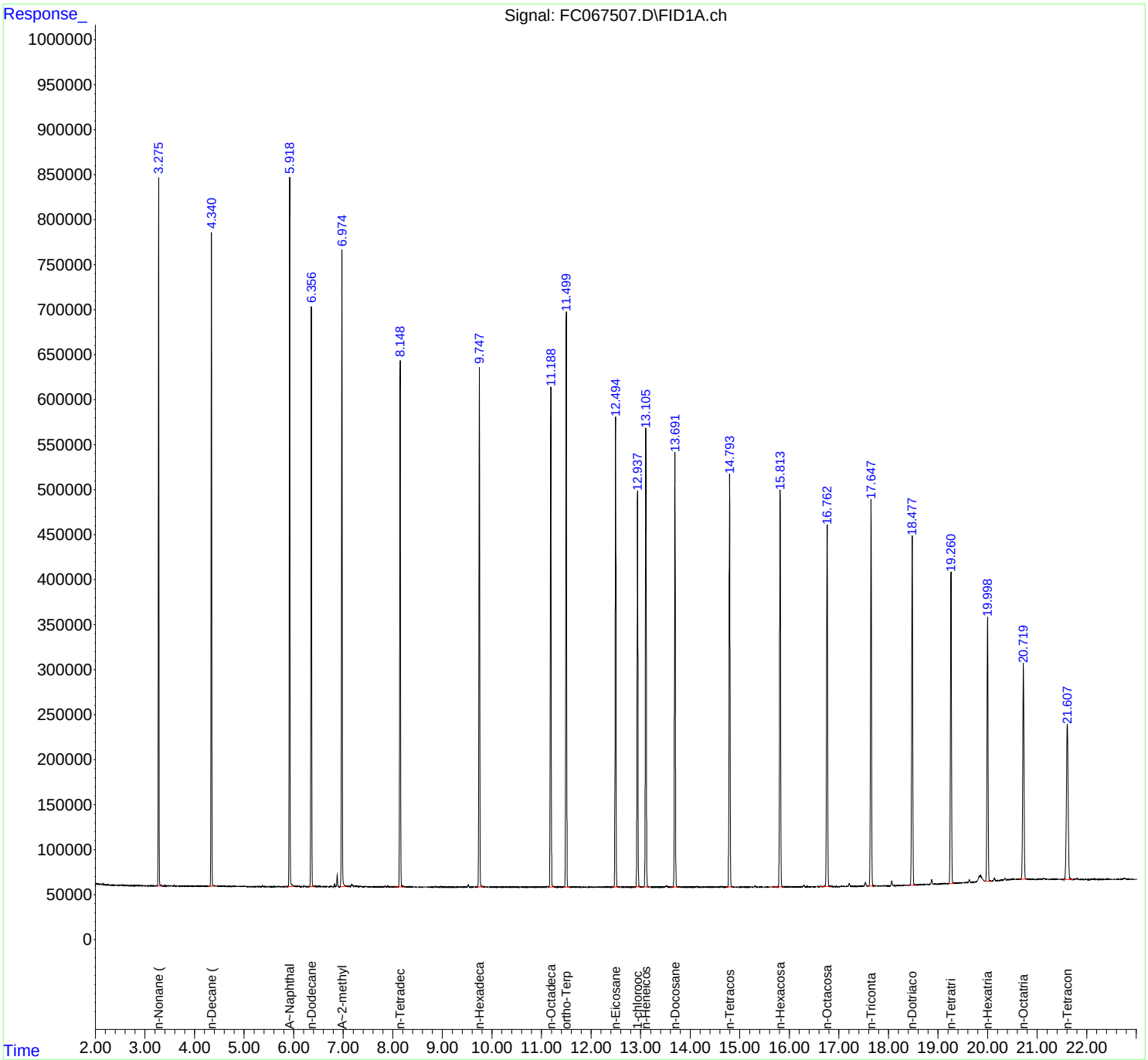
Quantitation Report (QT Reviewed)

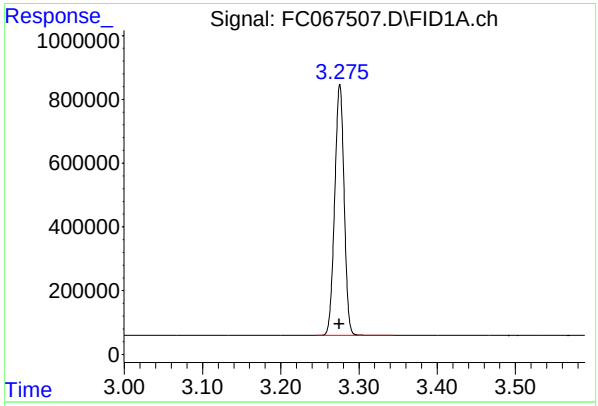
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC102324AL\
Data File : FC067507.D
Signal(s) : FID1A.ch
Acq On : 23 Oct 2024 15:48
Operator : YP/AJ
Sample : 50 PPM ALIPHATIC HC STD2
Misc :
ALS Vial : 12 Sample Multiplier: 1

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

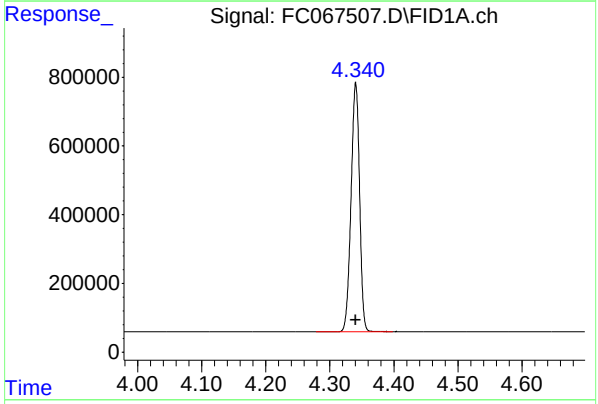




#1 n-Nonane (C9)

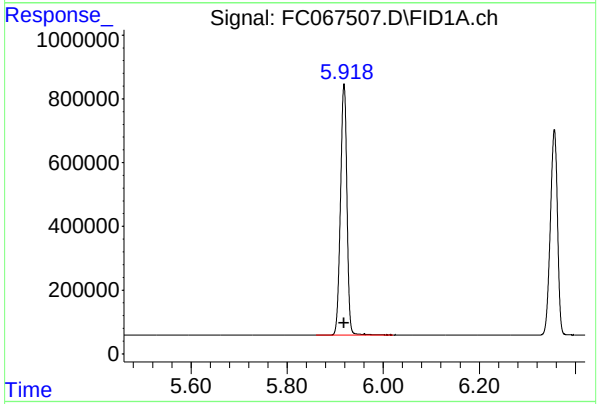
R.T.: 3.275 min
Delta R.T.: 0.000 min
Response: 6596270
Conc: 50.12 ug/ml

Instrument :
FID_C
ClientSampleId :
50 PPM ALIPHATIC HC STD2



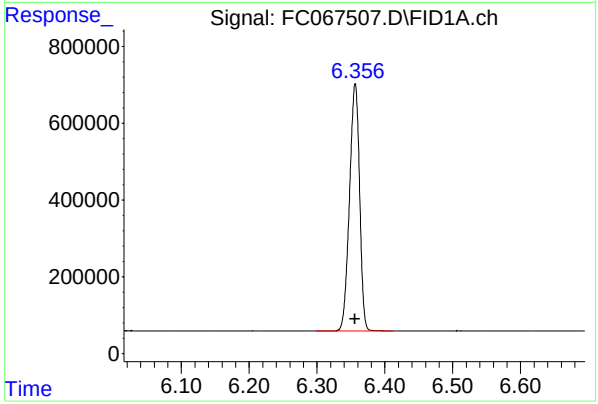
#2 n-Decane (C10)

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



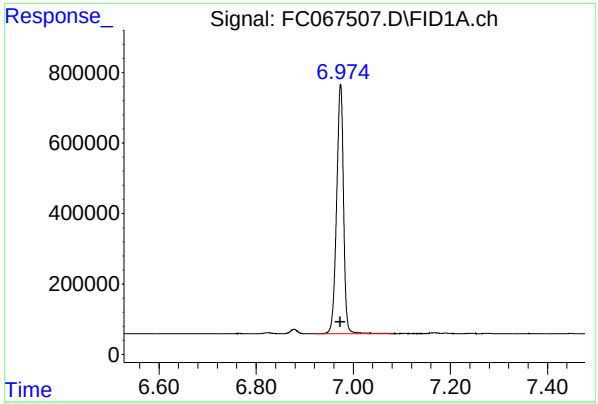
#3 A~Naphthalene (C11.7)

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



#4 n-Dodecane (C12)

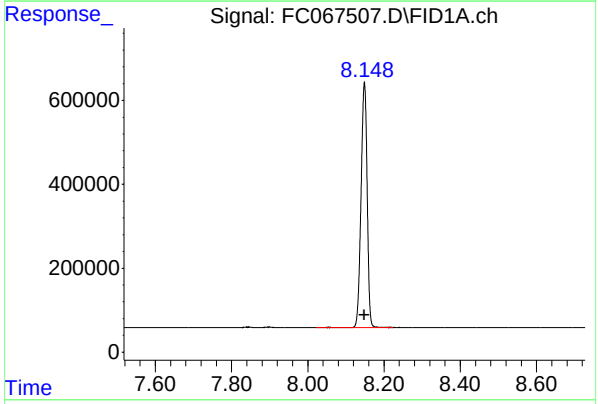
R.T.: 6.356 min
Delta R.T.: 0.000 min
Response: 6650893
Conc: 50.20 ug/ml



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

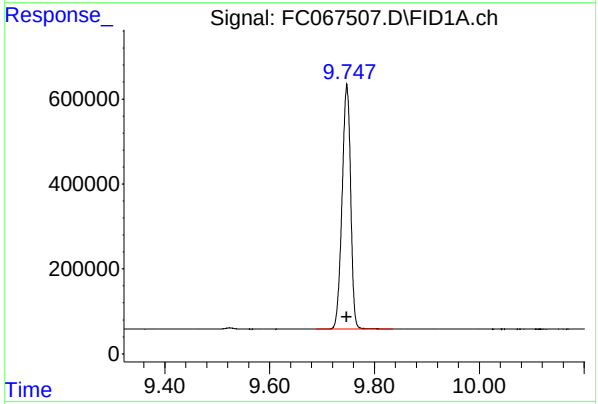
R.T.: 6.974 min
Delta R.T.: 0.000 min
Response: 7049073
Conc: 50.40 ug/ml

Instrument :
FID_C
ClientSampleId :
50 PPM ALIPHATIC HC STD2



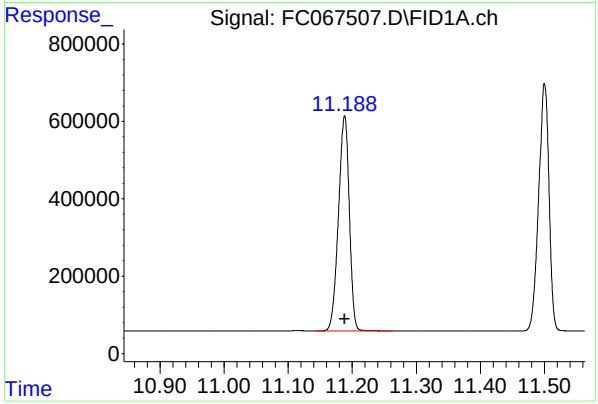
#6 n-Tetradecane (C14)

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



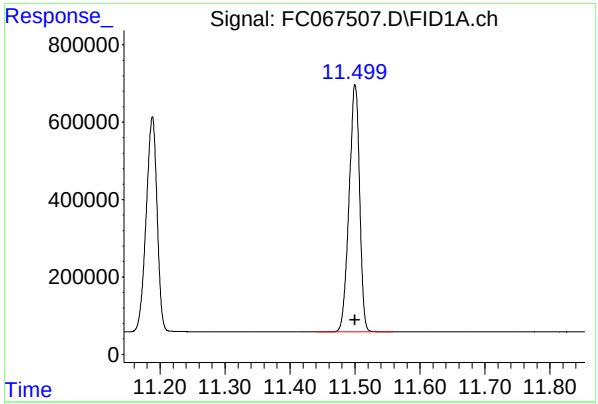
#7 n-Hexadecane (C16)

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



#8 n-Octadecane (C18)

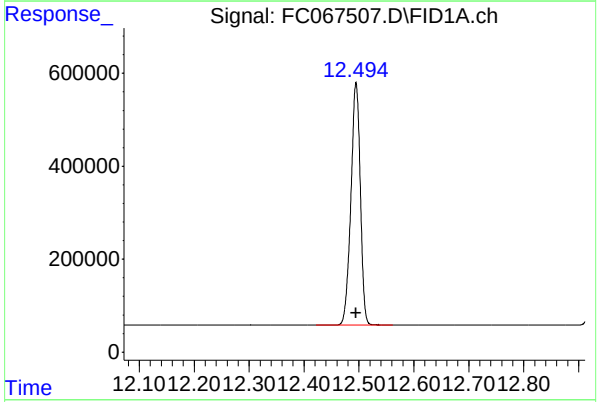
R.T.: 11.188 min
Delta R.T.: 0.000 min
Response: 6511575
Conc: 50.33 ug/ml



#9 ortho-Terphenyl (SURR)

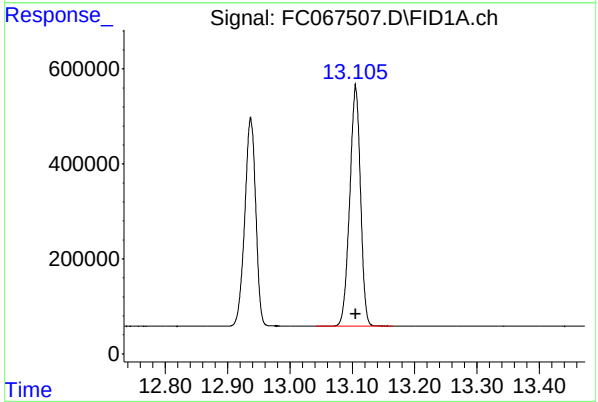
R.T.: 11.500 min
Delta R.T.: 0.000 min
Response: 7186867
Conc: 50.33 ug/ml

Instrument :
FID_C
ClientSampleId :
50 PPM ALIPHATIC HC STD2



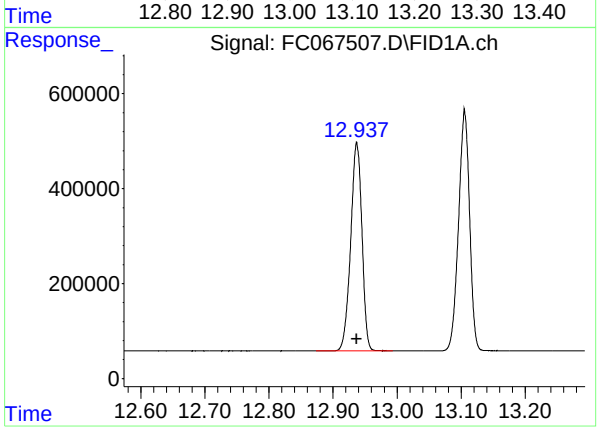
#10 n-Eicosane (C20)

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



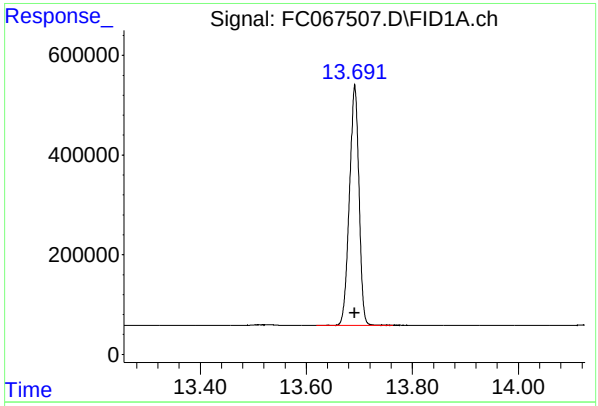
#11 n-Heneicosane (C21)

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



#12 1-chlorooctadecane (SURR)

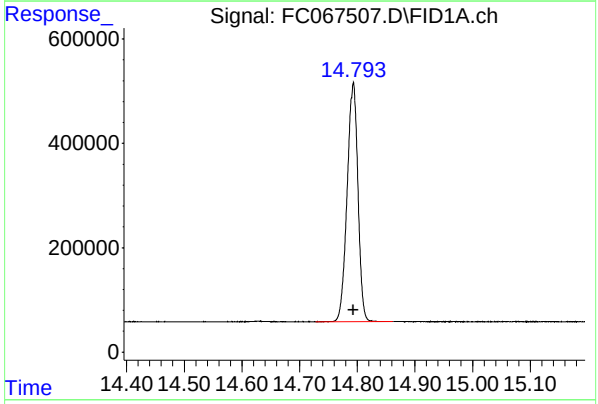
R.T.: 12.937 min
Delta R.T.: 0.000 min
Response: 5350584
Conc: 50.40 ug/ml



#13 n-Docosane (C22)

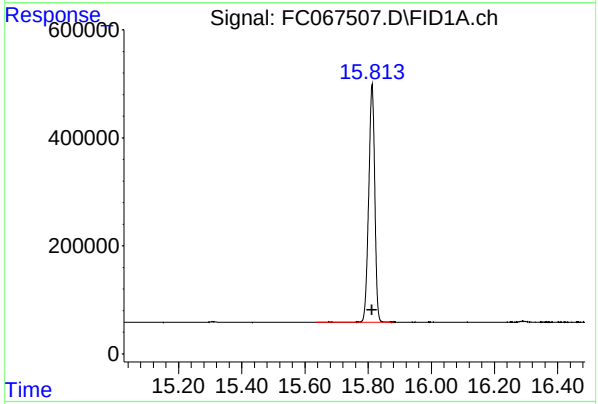
R.T.: 13.691 min
Delta R.T.: 0.000 min
Response: 6022373
Conc: 50.40 ug/ml

Instrument :
FID_C
ClientSampleId :
50 PPM ALIPHATIC HC STD2



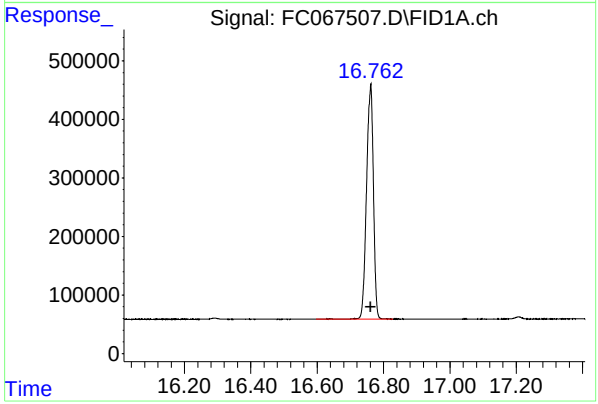
#14 n-Tetracosane (C24)

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



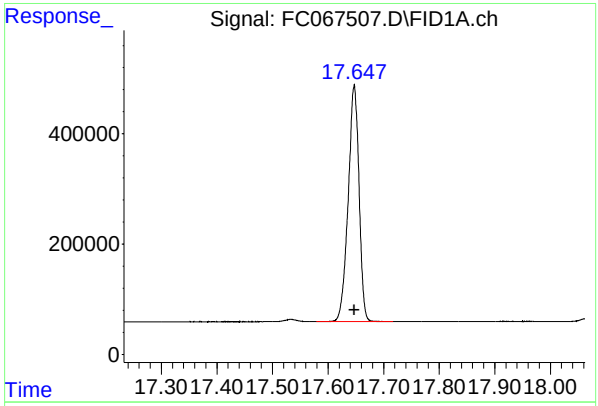
#15 n-Hexacosane (C26)

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



#16 n-Octacosane (C28)

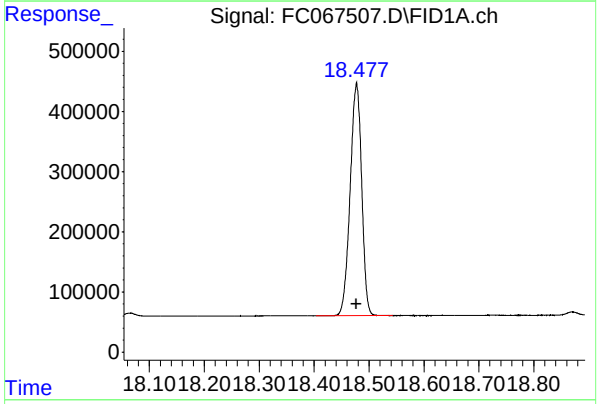
R.T.: 16.761 min
Delta R.T.: 0.000 min
Response: 5758647
Conc: 50.43 ug/ml



#17 n-Tricontane (C30)

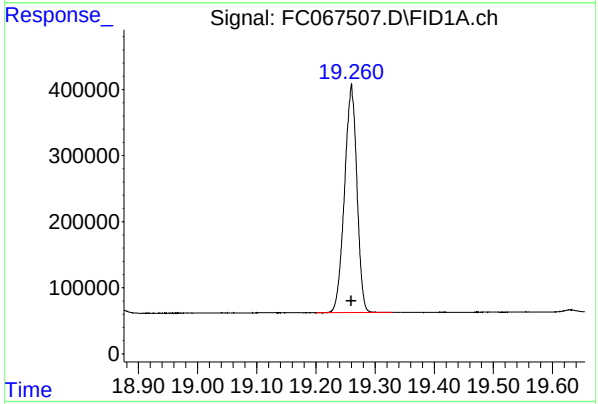
R.T.: 17.647 min
Delta R.T.: 0.000 min
Response: 5830292
Conc: 50.29 ug/ml

Instrument :
FID_C
ClientSampleId :
50 PPM ALIPHATIC HC STD2



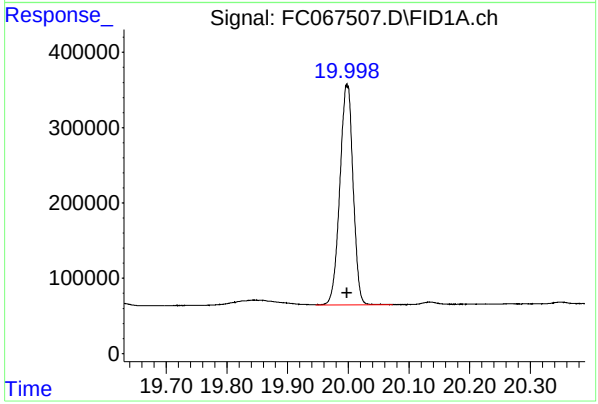
#18 n-Dotriacontane (C32)

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



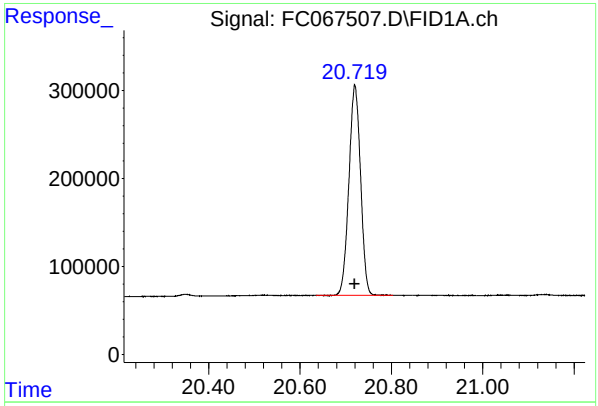
#19 n-Tetratriacontane (C34)

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



#20 n-Hexatriacontane (C36)

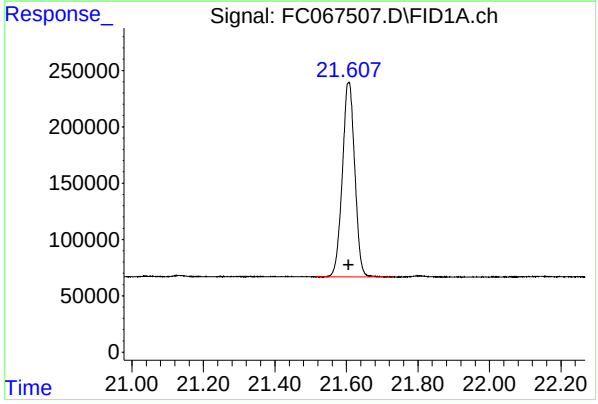
R.T.: 19.998 min
Delta R.T.: 0.000 min
Response: 4430530
Conc: 50.48 ug/ml



#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.

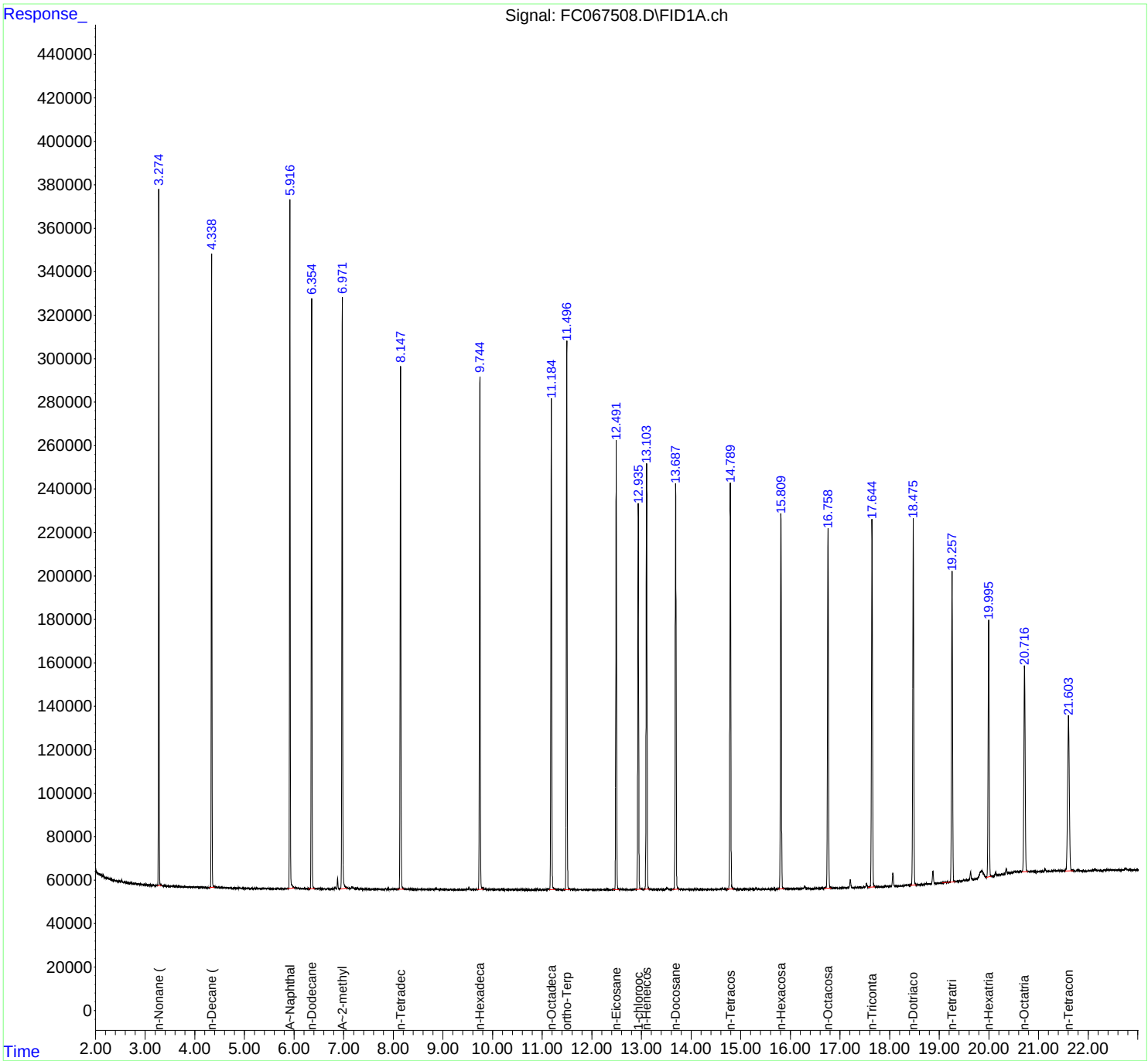
Quantitation Report (QT Reviewed)

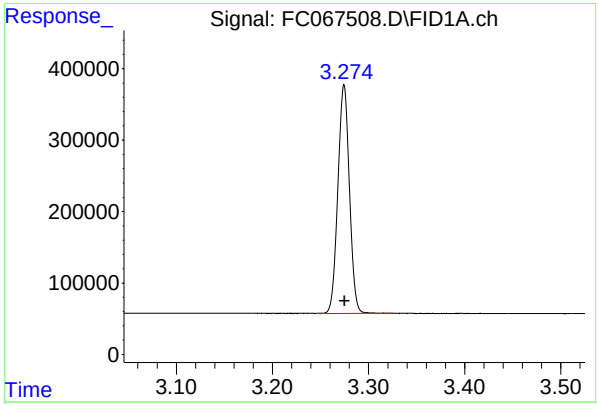
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC102324AL\
Data File : FC067508.D
Signal(s) : FID1A.ch
Acq On : 23 Oct 2024 16:25
Operator : YP/AJ
Sample : 20 PPM ALIPHATIC HC STD3
Misc :
ALS Vial : 13 Sample Multiplier: 1

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

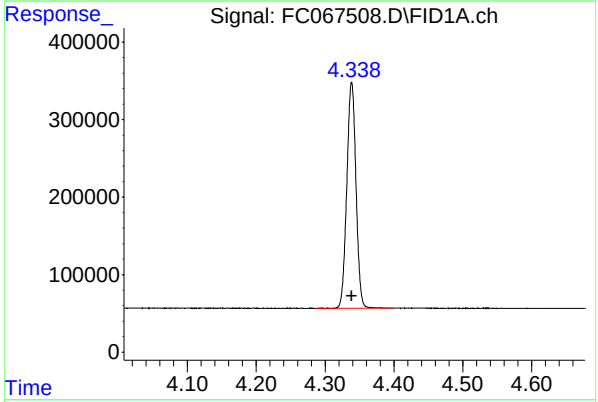




#1 n-Nonane (C9)

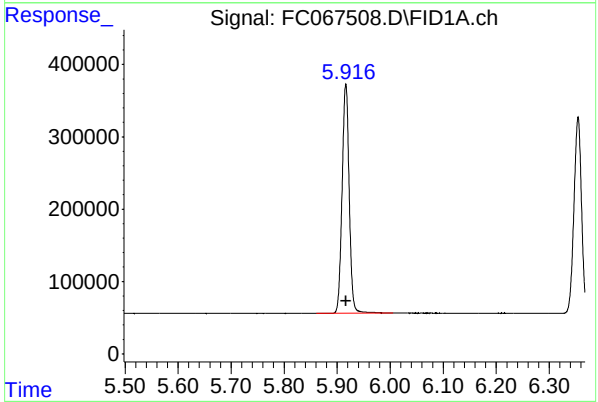
R.T.: 3.275 min
Delta R.T.: 0.000 min
Response: 2673666
Conc: 20.00 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD3



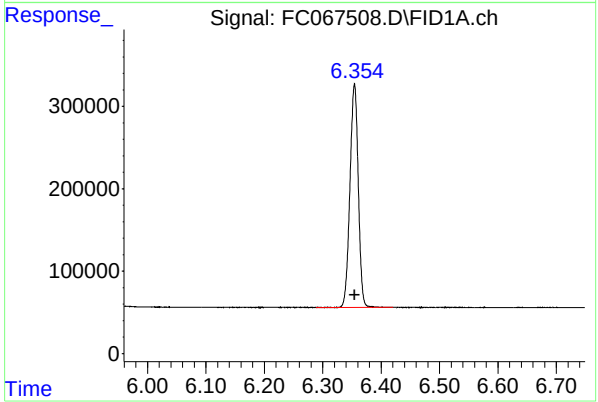
#2 n-Decane (C10)

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



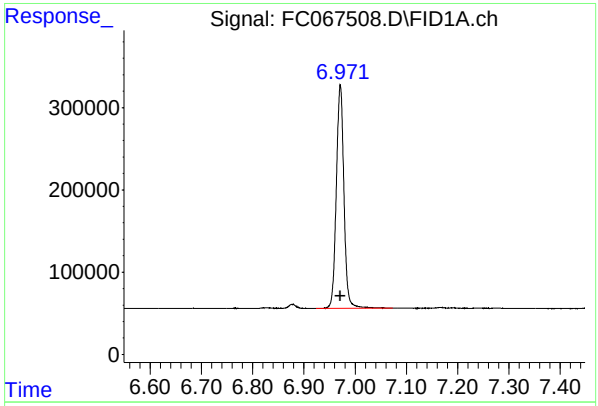
#3 A~Naphthalene (C11.7)

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



#4 n-Dodecane (C12)

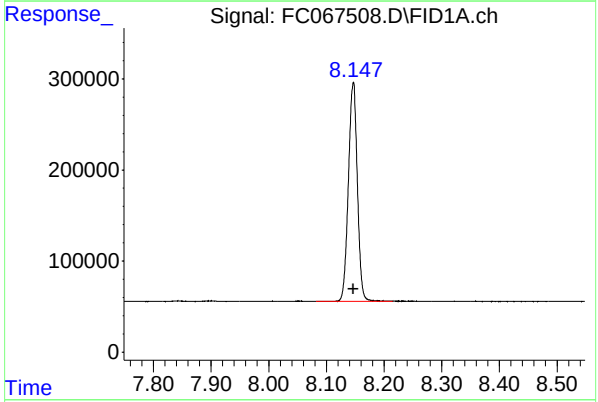
R.T.: 6.354 min
Delta R.T.: 0.000 min
Response: 2685213
Conc: 20.00 ug/ml



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

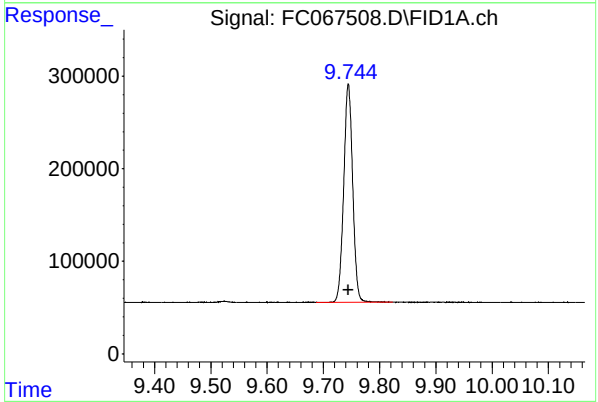
R.T.: 6.971 min
Delta R.T.: 0.000 min
Response: 2804469
Conc: 20.00 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD3



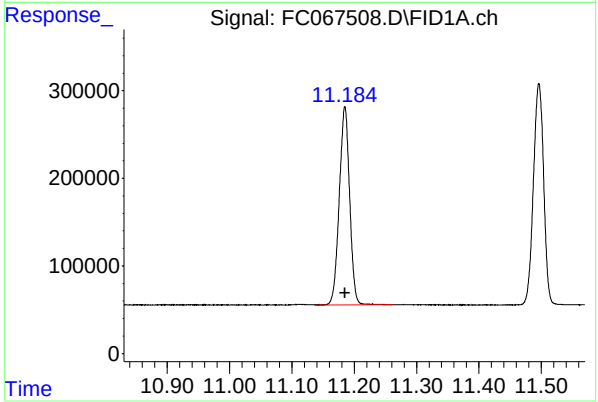
#6 n-Tetradecane (C14)

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



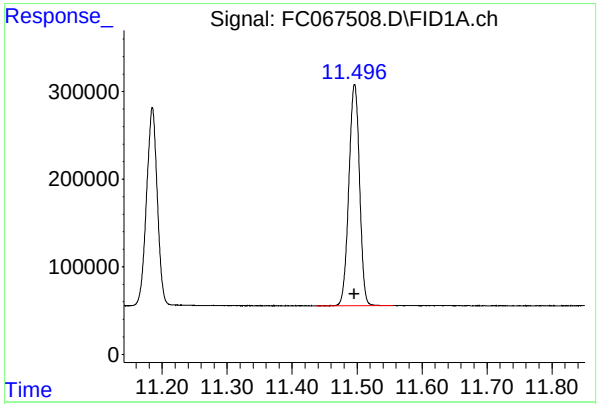
#7 n-Hexadecane (C16)

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



#8 n-Octadecane (C18)

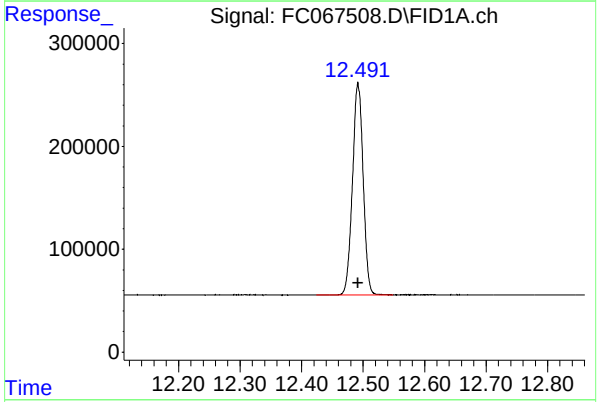
R.T.: 11.185 min
Delta R.T.: 0.000 min
Response: 2610385
Conc: 20.00 ug/ml



#9 ortho-Terphenyl (SURR)

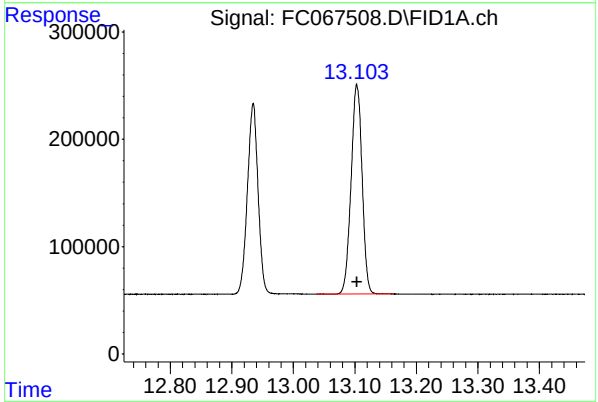
R.T.: 11.496 min
Delta R.T.: 0.000 min
Response: 2885453
Conc: 20.00 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD3



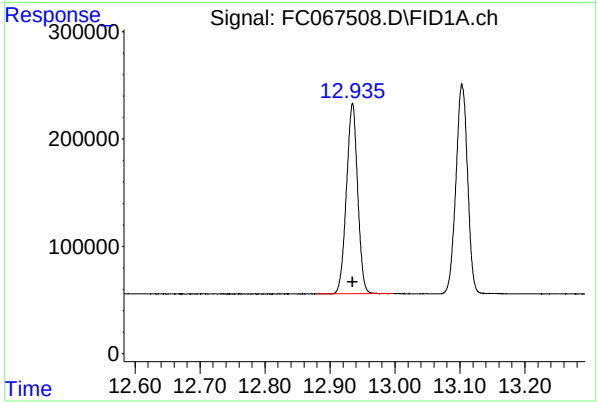
#10 n-Eicosane (C20)

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



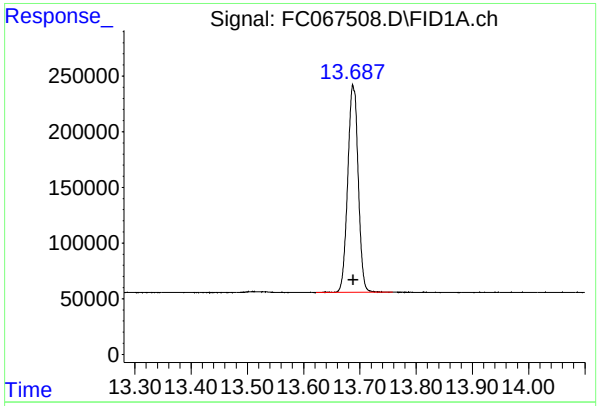
#11 n-Heneicosane (C21)

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



#12 1-chlorooctadecane (SURR)

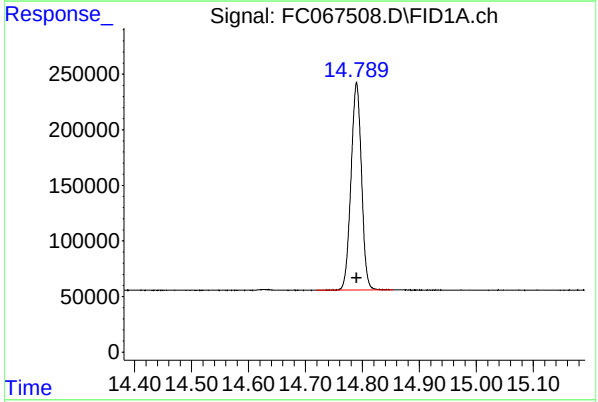
R.T.: 12.935 min
Delta R.T.: 0.000 min
Response: 2131037
Conc: 20.00 ug/ml



#13 n-Docosane (C22)

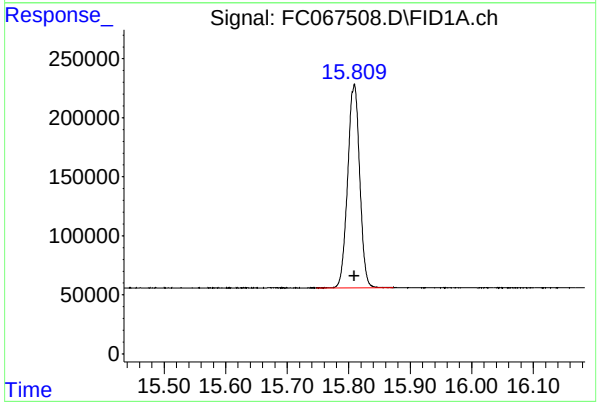
R.T.: 13.688 min
Delta R.T.: 0.000 min
Response: 2410406
Conc: 20.00 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD3



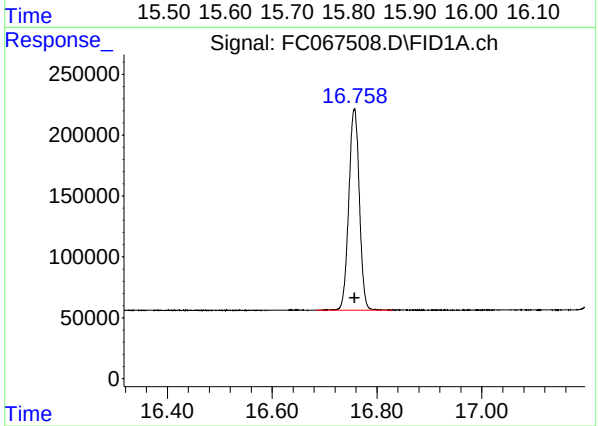
#14 n-Tetracosane (C24)

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



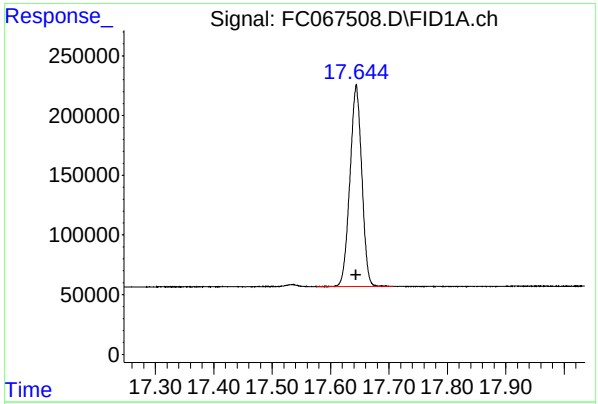
#15 n-Hexacosane (C26)

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



#16 n-Octacosane (C28)

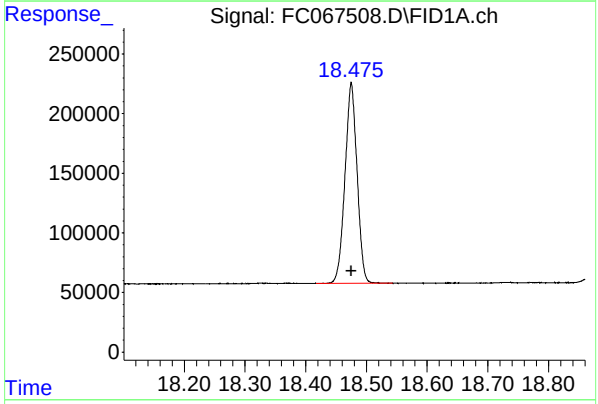
R.T.: 16.757 min
Delta R.T.: 0.000 min
Response: 2318777
Conc: 20.00 ug/ml



#17 n-Tricontane (C30)

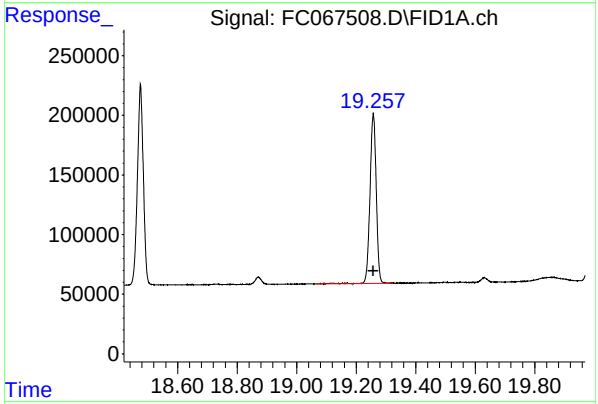
R.T.: 17.644 min
Delta R.T.: 0.000 min
Response: 2378909
Conc: 20.00 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD3



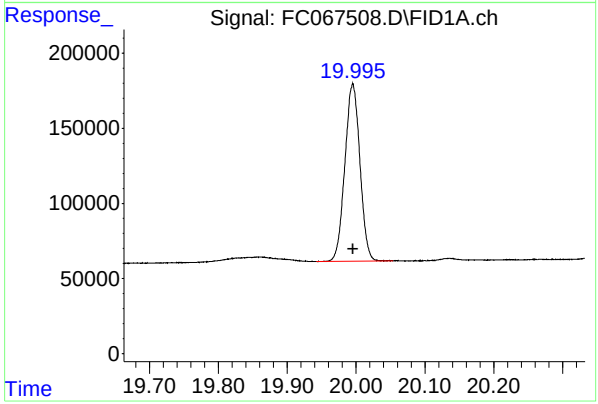
#18 n-Dotriacontane (C32)

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



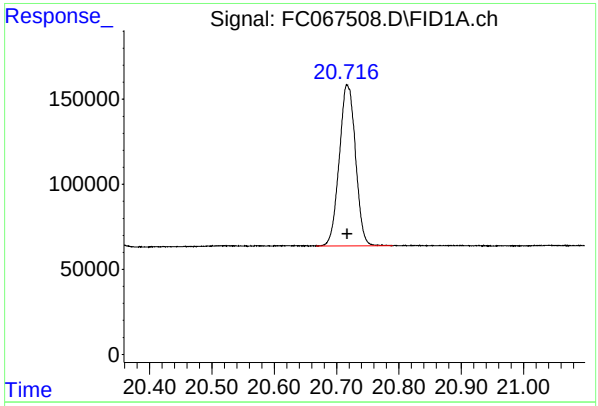
#19 n-Tetratriacontane (C34)

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



#20 n-Hexatriacontane (C36)

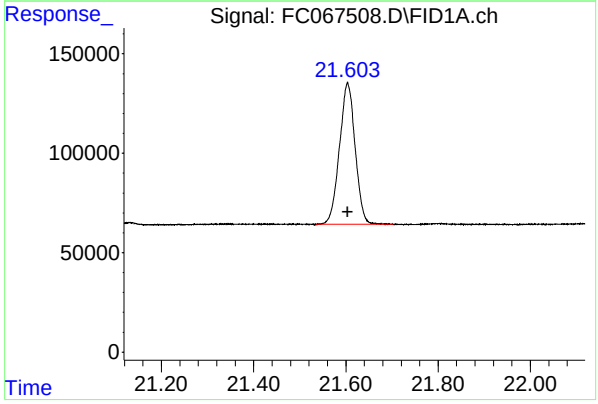
R.T.: 19.995 min
Delta R.T.: 0.000 min
Response: 1794670
Conc: 20.00 ug/ml



#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.

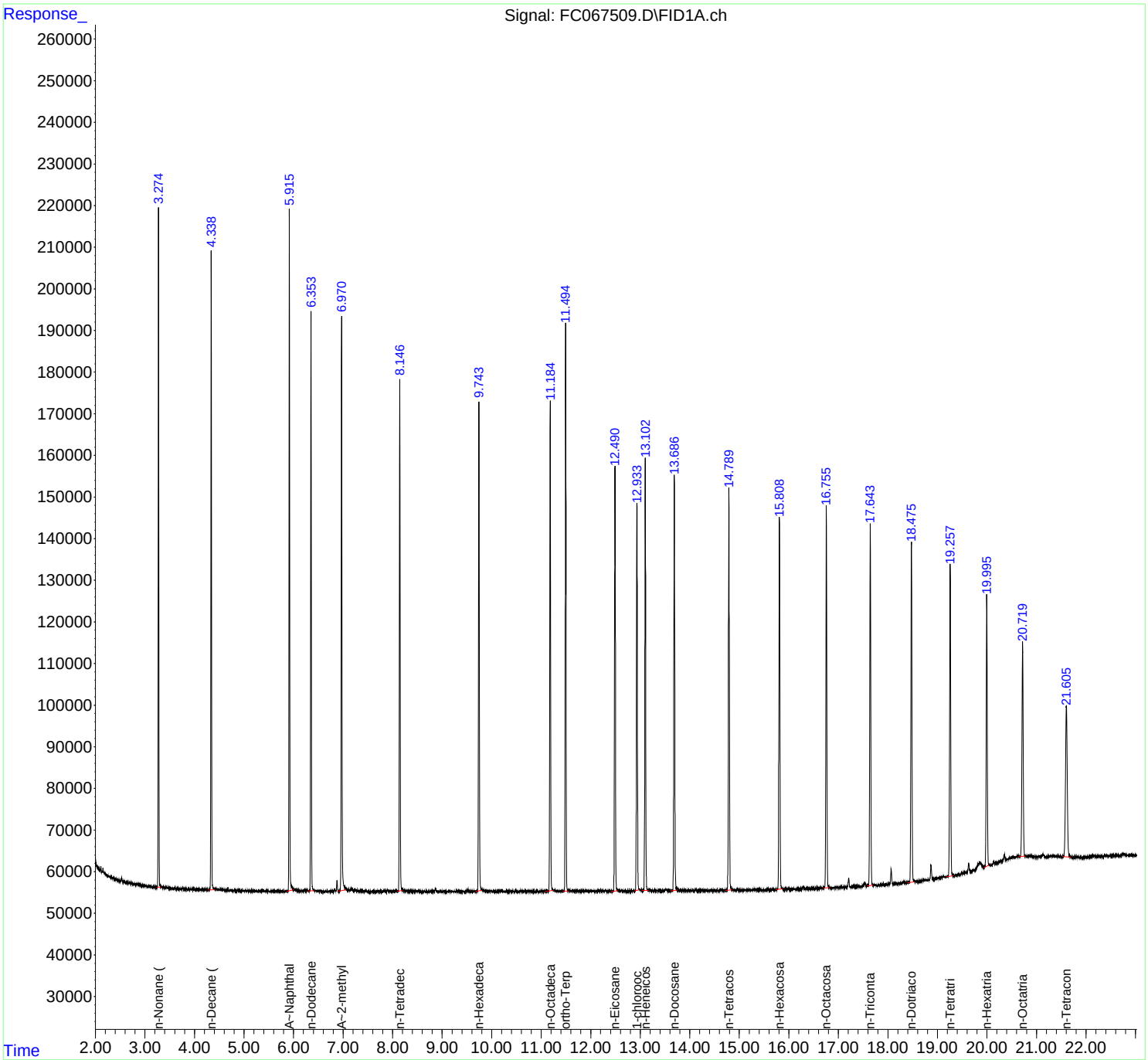
Quantitation Report (QT Reviewed)

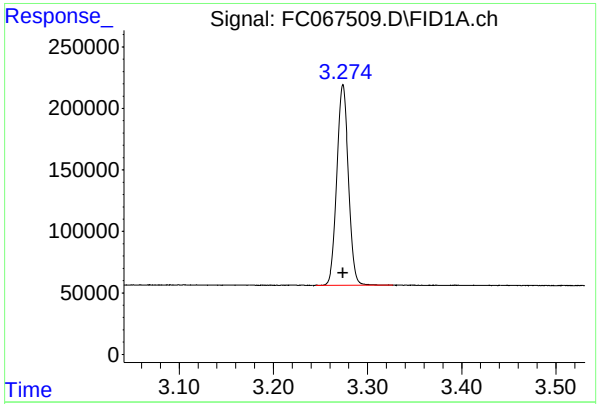
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC102324AL\
Data File : FC067509.D
Signal(s) : FID1A.ch
Acq On : 23 Oct 2024 17:02
Operator : YP/AJ
Sample : 10 PPM ALIPHATIC HC STD4
Misc :
ALS Vial : 14 Sample Multiplier: 1

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

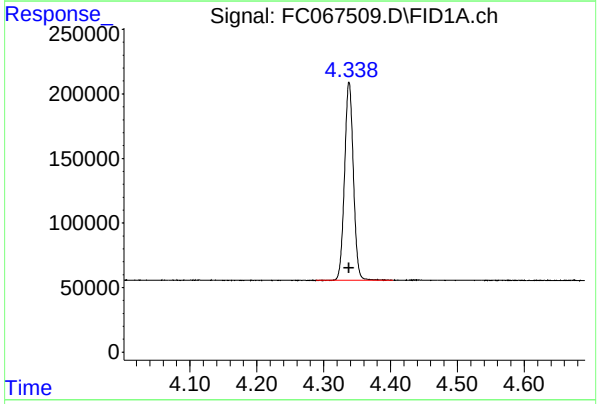




#1 n-Nonane (C9)

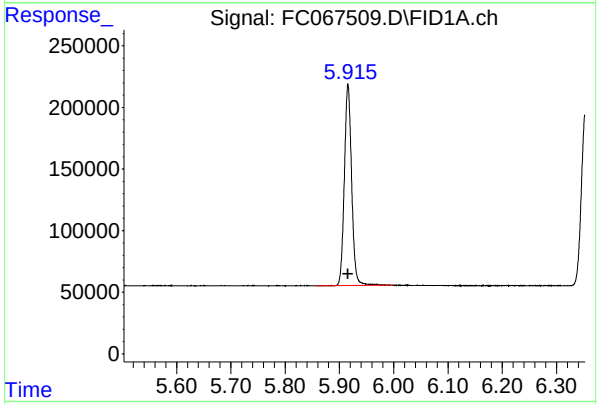
R.T.: 3.274 min
Delta R.T.: 0.000 min
Response: 1392325
Conc: 10.43 ug/ml

Instrument :
FID_C
ClientSampleId :
10 PPM ALIPHATIC HC STD4



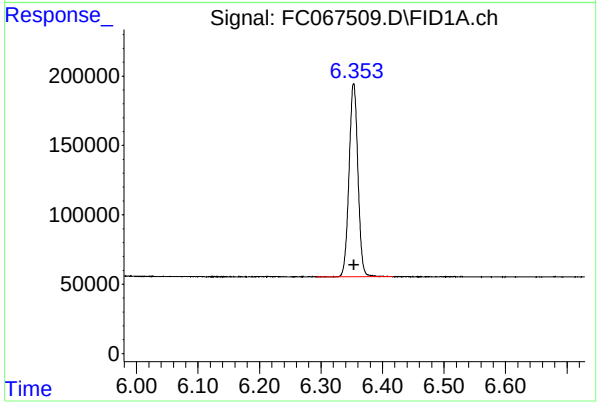
#2 n-Decane (C10)

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



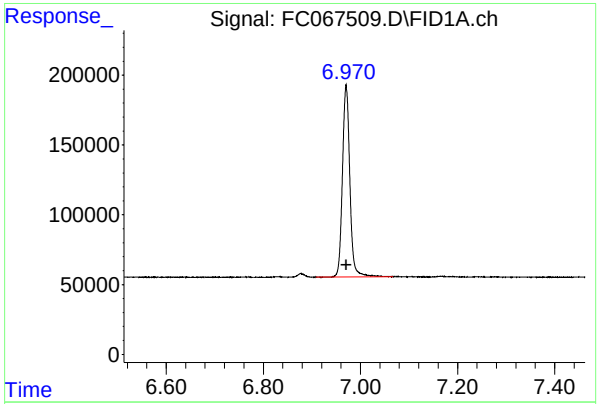
#3 A~Naphthalene (C11.7)

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



#4 n-Dodecane (C12)

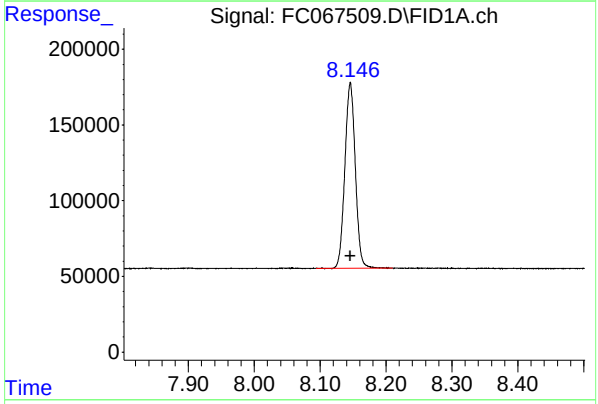
R.T.: 6.353 min
Delta R.T.: 0.000 min
Response: 1397121
Conc: 10.40 ug/ml



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

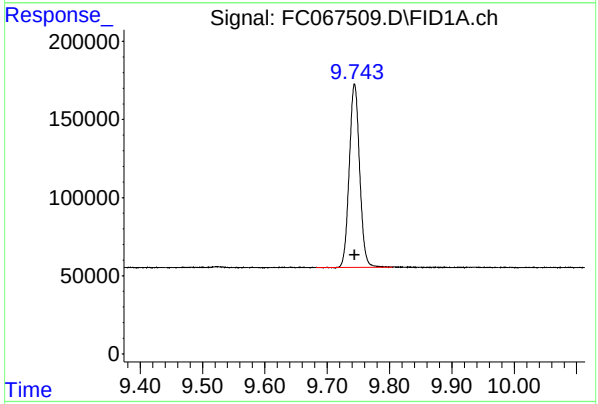
R.T.: 6.971 min
Delta R.T.: 0.000 min
Response: 1445653
Conc: 10.25 ug/ml

Instrument :
FID_C
ClientSampleId :
10 PPM ALIPHATIC HC STD4



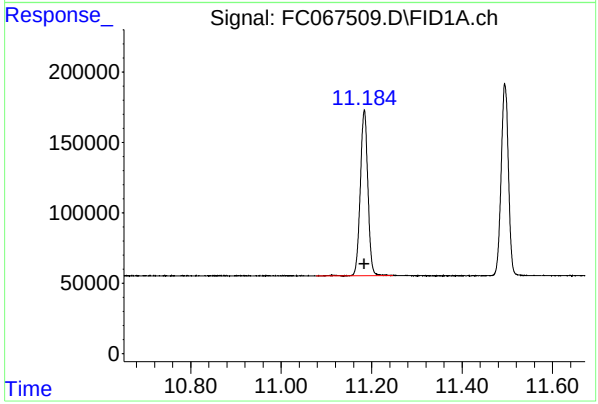
#6 n-Tetradecane (C14)

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



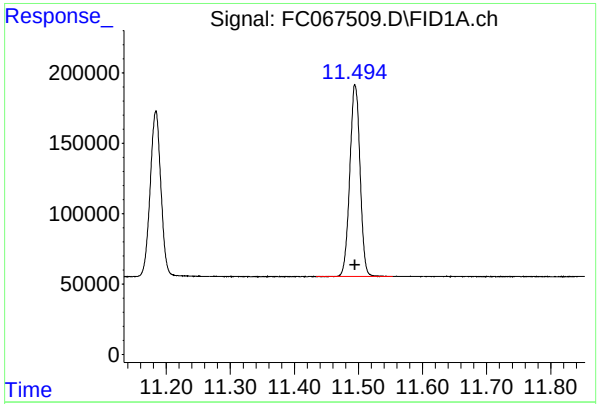
#7 n-Hexadecane (C16)

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



#8 n-Octadecane (C18)

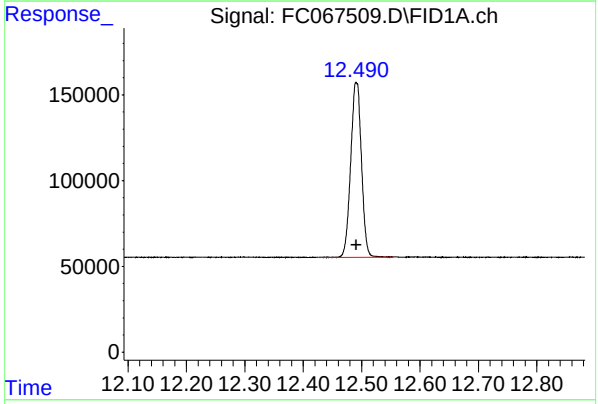
R.T.: 11.184 min
Delta R.T.: 0.000 min
Response: 1362847
Conc: 10.39 ug/ml



#9 ortho-Terphenyl (SURR)

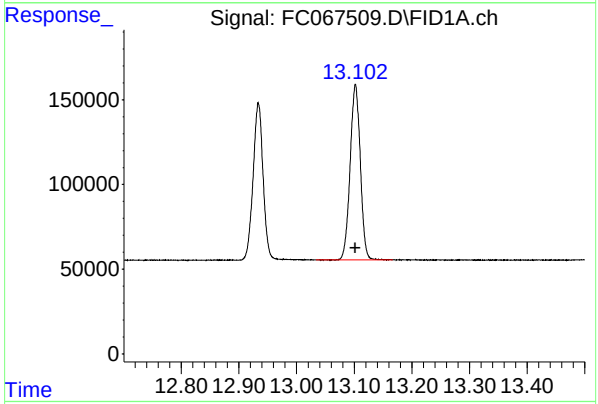
R.T.: 11.495 min
Delta R.T.: 0.000 min
Response: 1516253
Conc: 10.46 ug/ml

Instrument :
FID_C
ClientSampleId :
10 PPM ALIPHATIC HC STD4



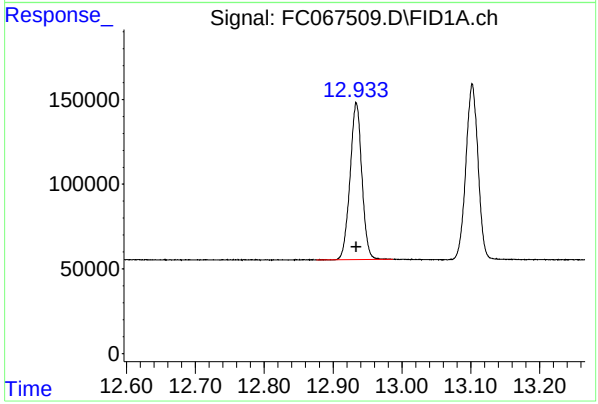
#10 n-Eicosane (C20)

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



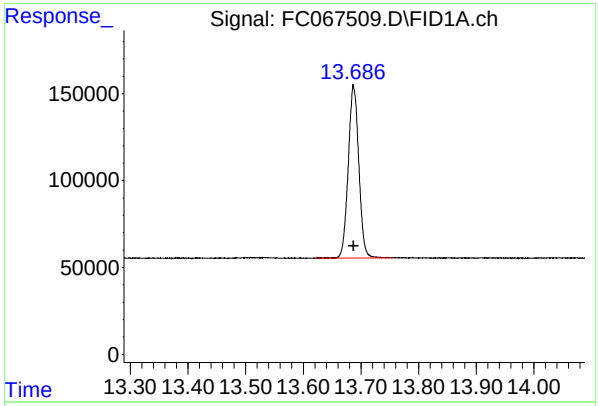
#11 n-Heneicosane (C21)

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



#12 1-chlorooctadecane (SURR)

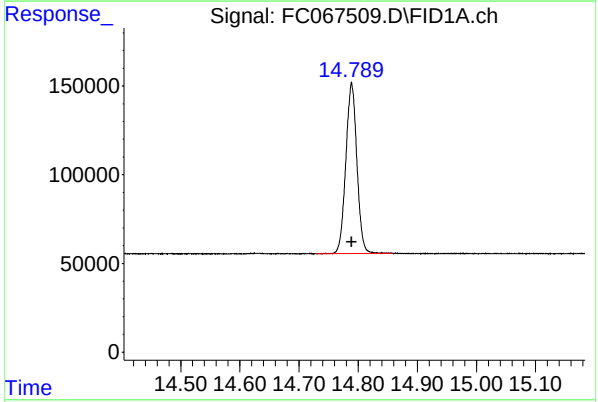
R.T.: 12.934 min
Delta R.T.: 0.000 min
Response: 1104370
Conc: 10.30 ug/ml



#13 n-Docosane (C22)

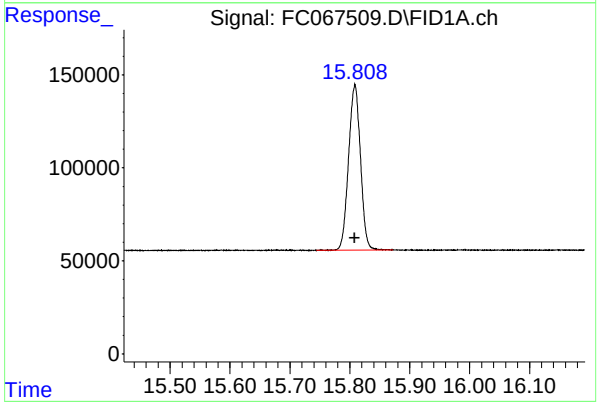
R.T.: 13.687 min
Delta R.T.: 0.000 min
Response: 1260218
Conc: 10.40 ug/ml

Instrument :
FID_C
ClientSampleId :
10 PPM ALIPHATIC HC STD4



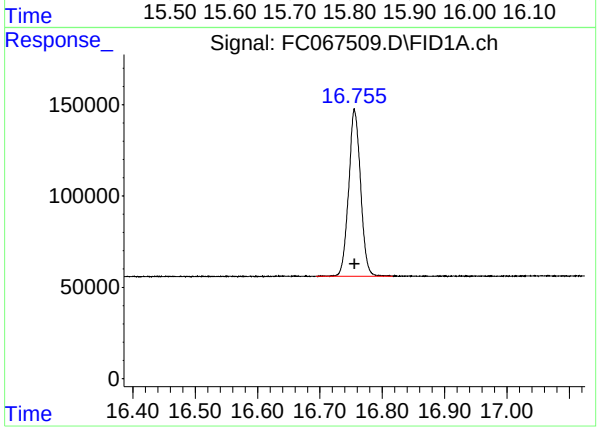
#14 n-Tetracosane (C24)

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



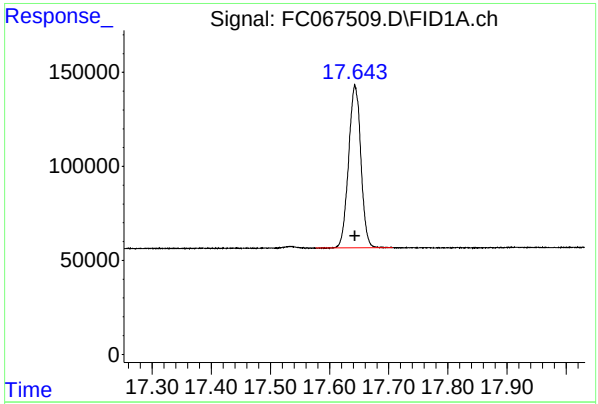
#15 n-Hexacosane (C26)

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



#16 n-Octacosane (C28)

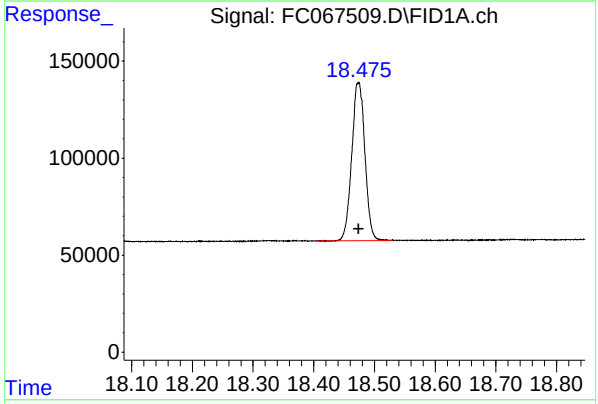
R.T.: 16.756 min
Delta R.T.: 0.000 min
Response: 1213286
Conc: 10.46 ug/ml



#17 n-Tricontane (C30)

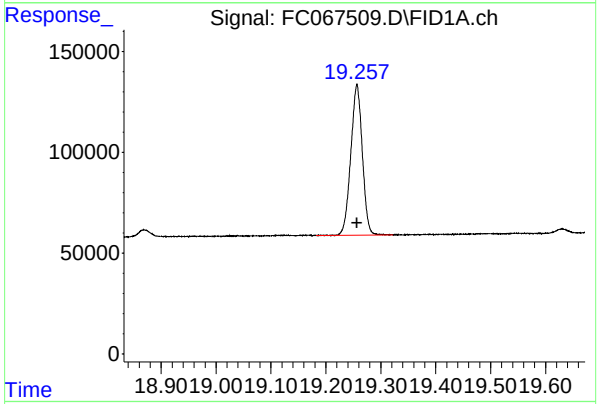
R.T.: 17.643 min
Delta R.T.: 0.000 min
Response: 1249088
Conc: 10.57 ug/ml

Instrument :
FID_C
ClientSampleId :
10 PPM ALIPHATIC HC STD4



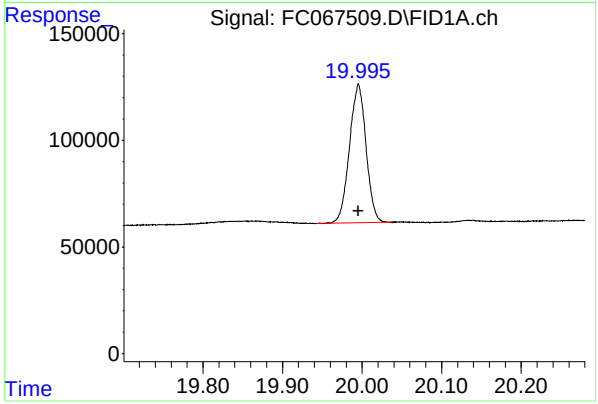
#18 n-Dotriacontane (C32)

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



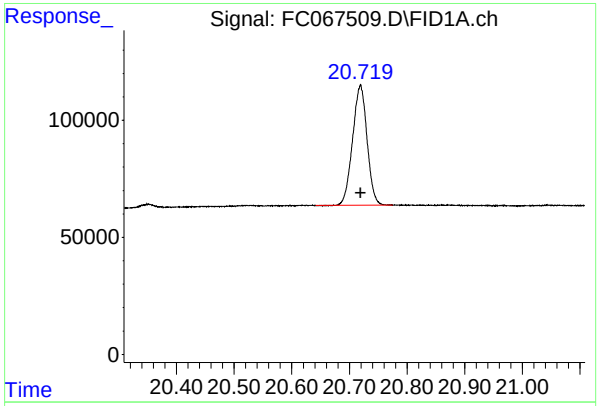
#19 n-Tetratriacontane (C34)

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



#20 n-Hexatriacontane (C36)

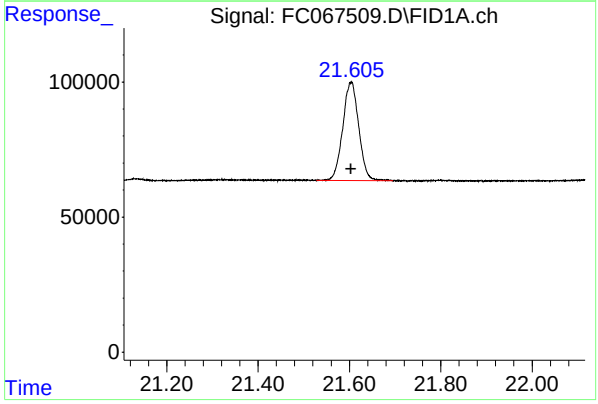
R.T.: 19.995 min
Delta R.T.: 0.000 min
Response: 941330
Conc: 10.53 ug/ml



#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.

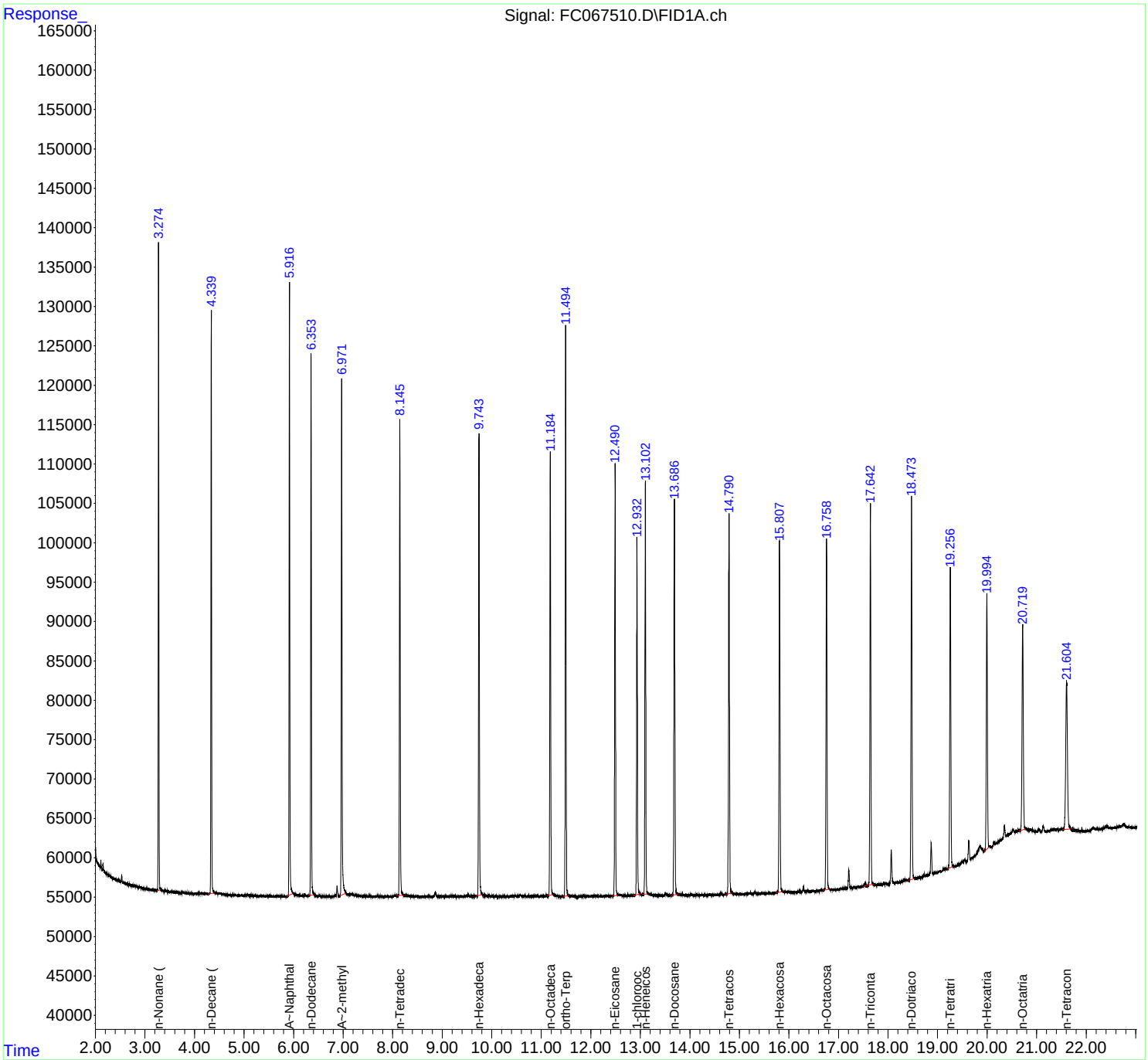
Quantitation Report (QT Reviewed)

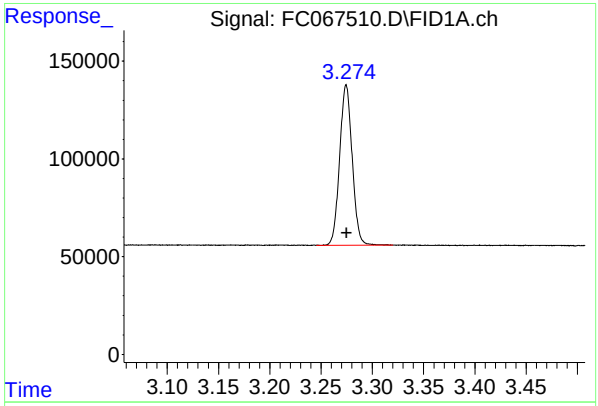
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC102324AL\
Data File : FC067510.D
Signal(s) : FID1A.ch
Acq On : 23 Oct 2024 17:38
Operator : YP/AJ
Sample : 5 PPM ALIPHATIC HC STD5
Misc :
ALS Vial : 15 Sample Multiplier: 1

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

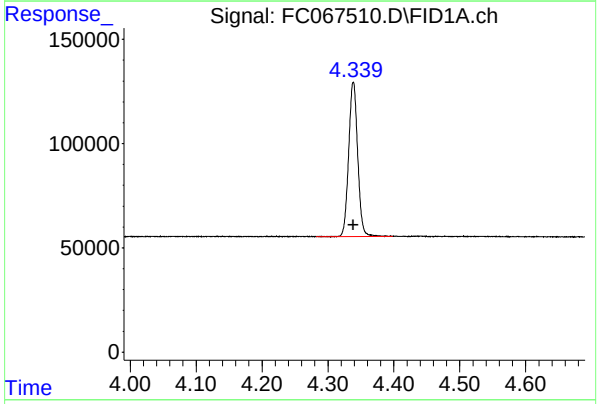




#1 n-Nonane (C9)

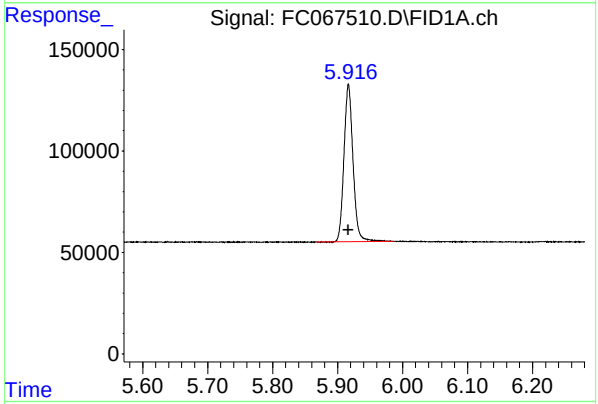
R.T.: 3.275 min
Delta R.T.: 0.000 min
Response: 697792
Conc: 5.18 ug/ml

Instrument :
FID_C
ClientSampleId :
5 PPM ALIPHATIC HC STD5



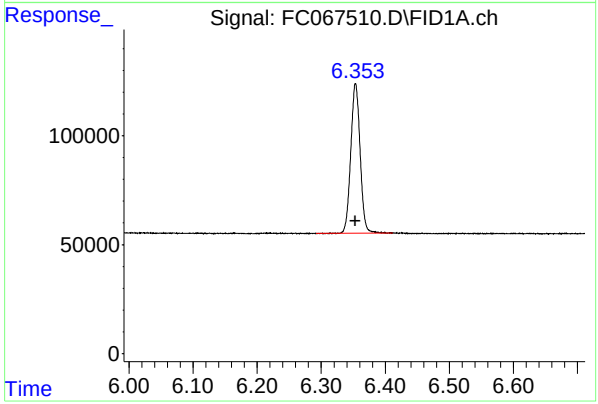
#2 n-Decane (C10)

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



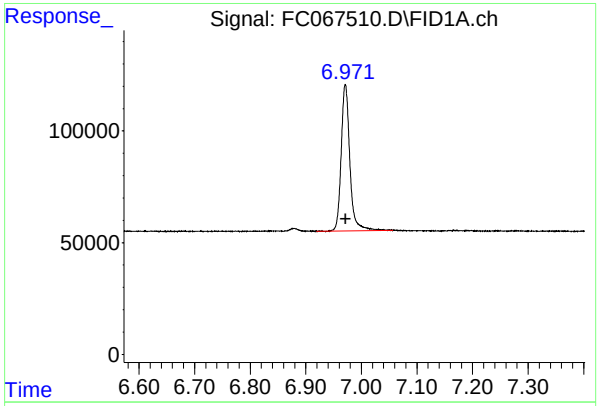
#3 A~Naphthalene (C11.7)

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



#4 n-Dodecane (C12)

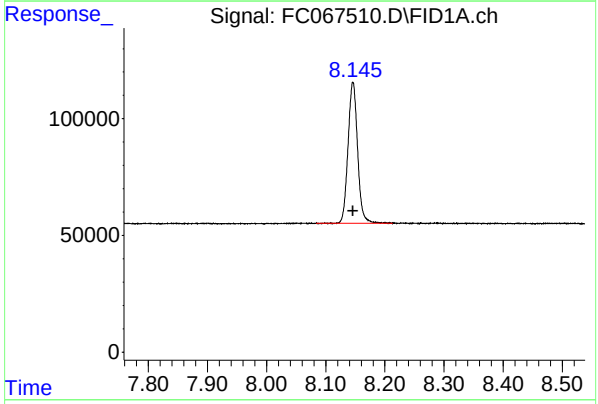
R.T.: 6.354 min
Delta R.T.: 0.000 min
Response: 700270
Conc: 5.17 ug/ml



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

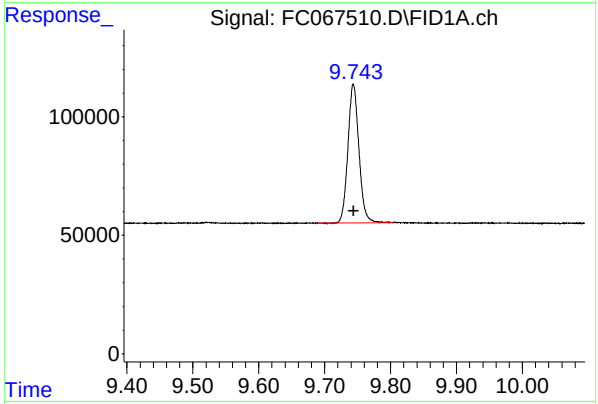
R.T.: 6.971 min
Delta R.T.: 0.000 min
Response: 709834
Conc: 5.03 ug/ml

Instrument :
FID_C
ClientSampleId :
5 PPM ALIPHATIC HC STD5



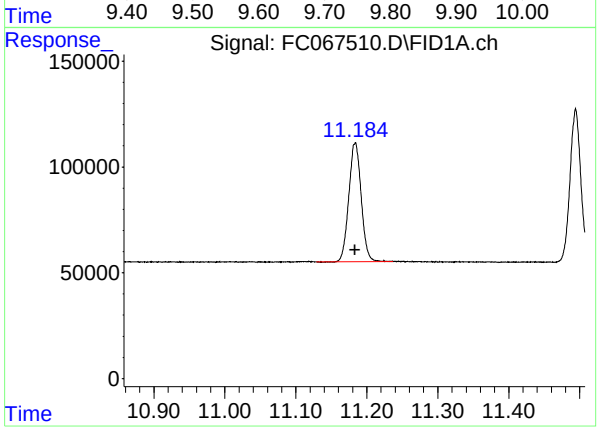
#6 n-Tetradecane (C14)

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



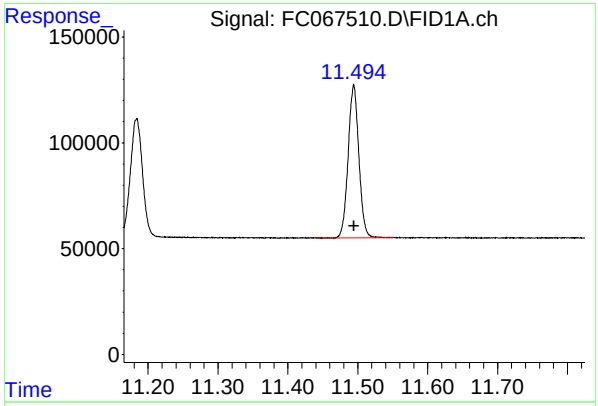
#7 n-Hexadecane (C16)

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



#8 n-Octadecane (C18)

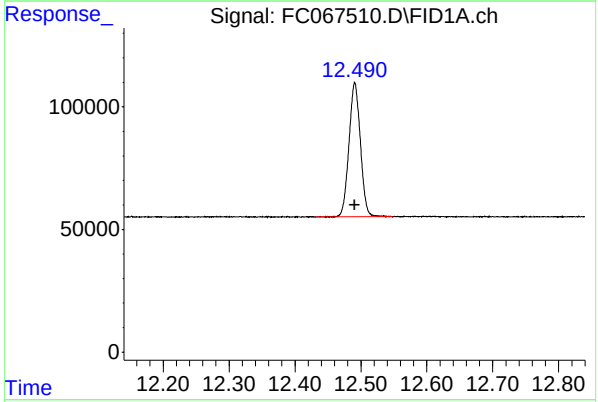
R.T.: 11.184 min
Delta R.T.: 0.000 min
Response: 680709
Conc: 5.15 ug/ml



#9 ortho-Terphenyl (SURR)

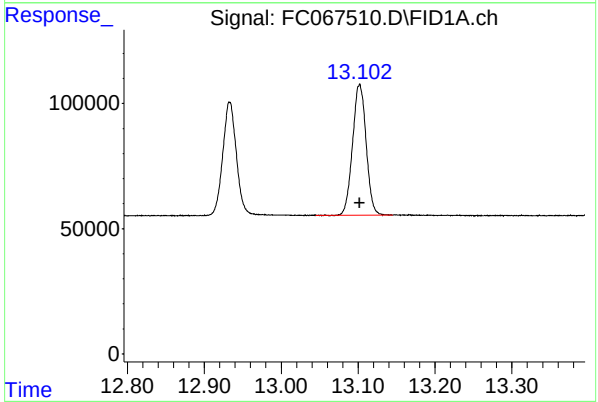
R.T.: 11.494 min
Delta R.T.: 0.000 min
Response: 768220
Conc: 5.24 ug/ml

Instrument :
FID_C
ClientSampleId :
5 PPM ALIPHATIC HC STD5



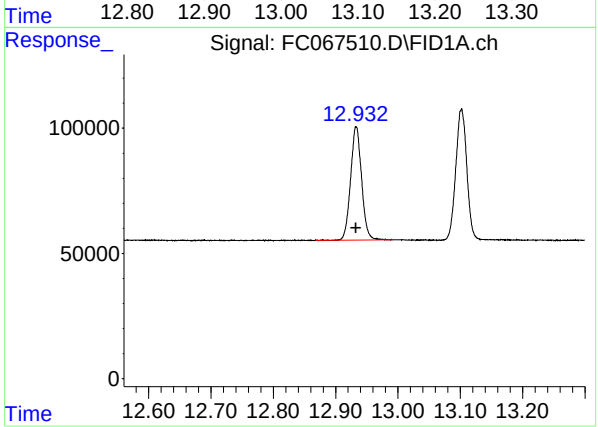
#10 n-Eicosane (C20)

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



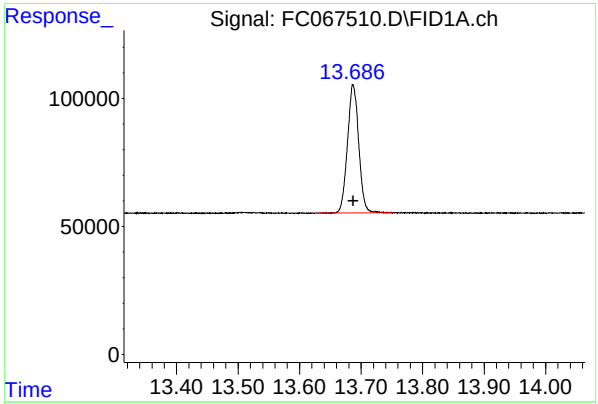
#11 n-Heneicosane (C21)

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



#12 1-chlorooctadecane (SURR)

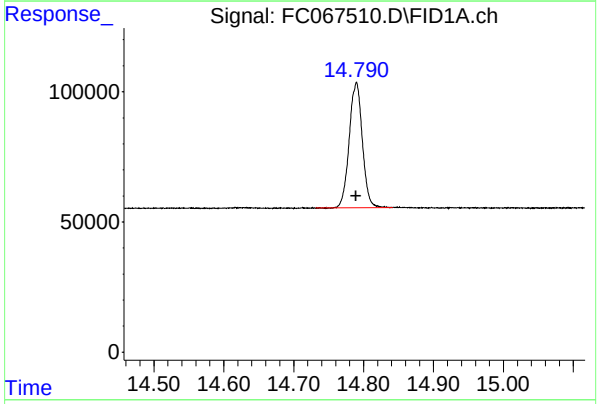
R.T.: 12.933 min
Delta R.T.: 0.000 min
Response: 555182
Conc: 5.14 ug/ml



#13 n-Docosane (C22)

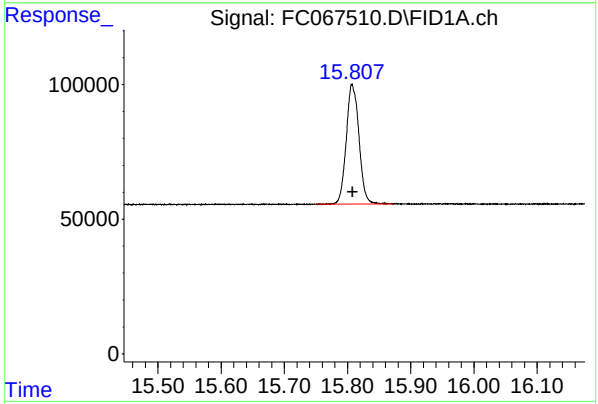
R.T.: 13.687 min
Delta R.T.: 0.000 min
Response: 638712
Conc: 5.22 ug/ml

Instrument :
FID_C
ClientSampleId :
5 PPM ALIPHATIC HC STD5



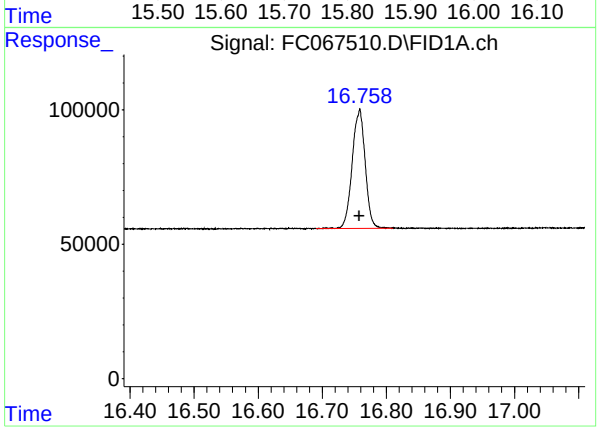
#14 n-Tetracosane (C24)

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



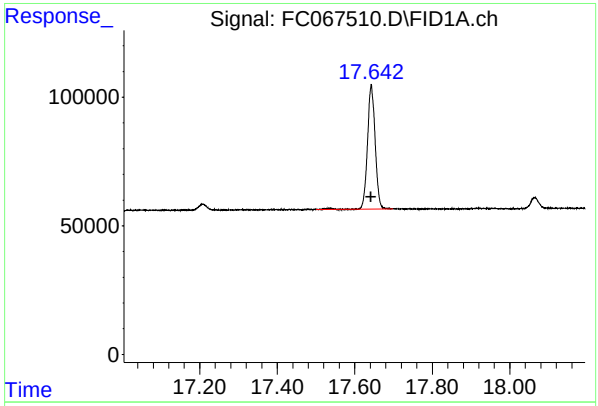
#15 n-Hexacosane (C26)

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



#16 n-Octacosane (C28)

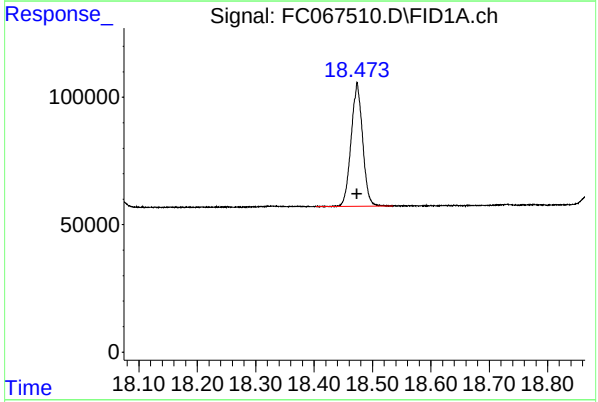
R.T.: 16.758 min
Delta R.T.: 0.000 min
Response: 621629
Conc: 5.28 ug/ml



#17 n-Tricontane (C30)

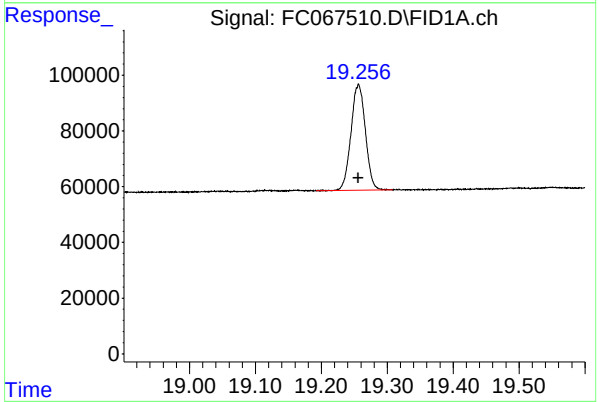
R.T.: 17.643 min
Delta R.T.: 0.000 min
Response: 658247
Conc: 5.45 ug/ml

Instrument :
FID_C
ClientSampleId :
5 PPM ALIPHATIC HC STD5



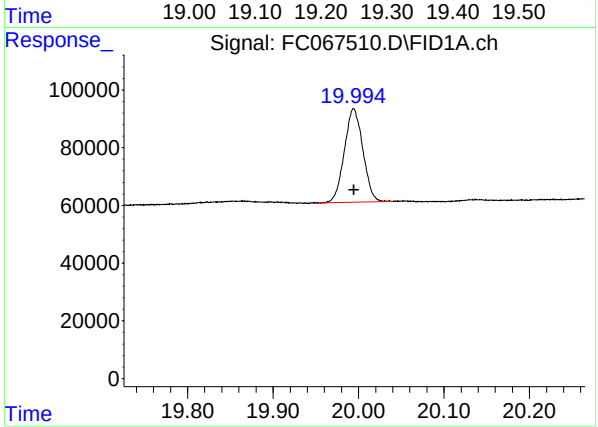
#18 n-Dotriacontane (C32)

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



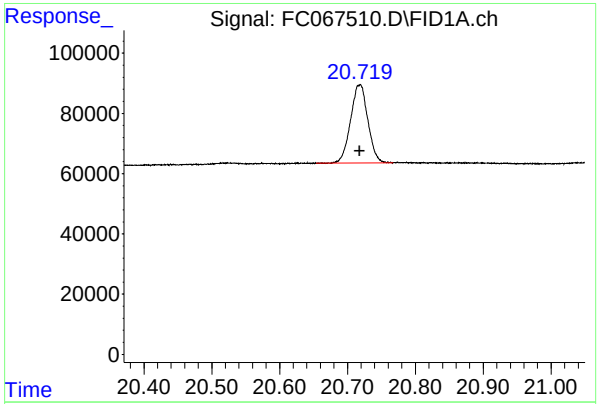
#19 n-Tetratriacontane (C34)

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



#20 n-Hexatriacontane (C36)

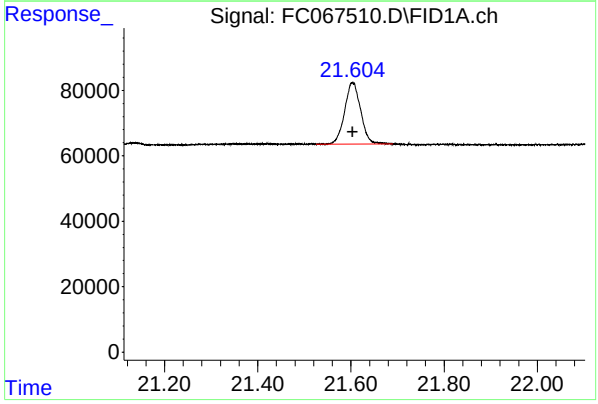
R.T.: 19.994 min
Delta R.T.: 0.000 min
Response: 488556
Conc: 5.37 ug/ml



#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.

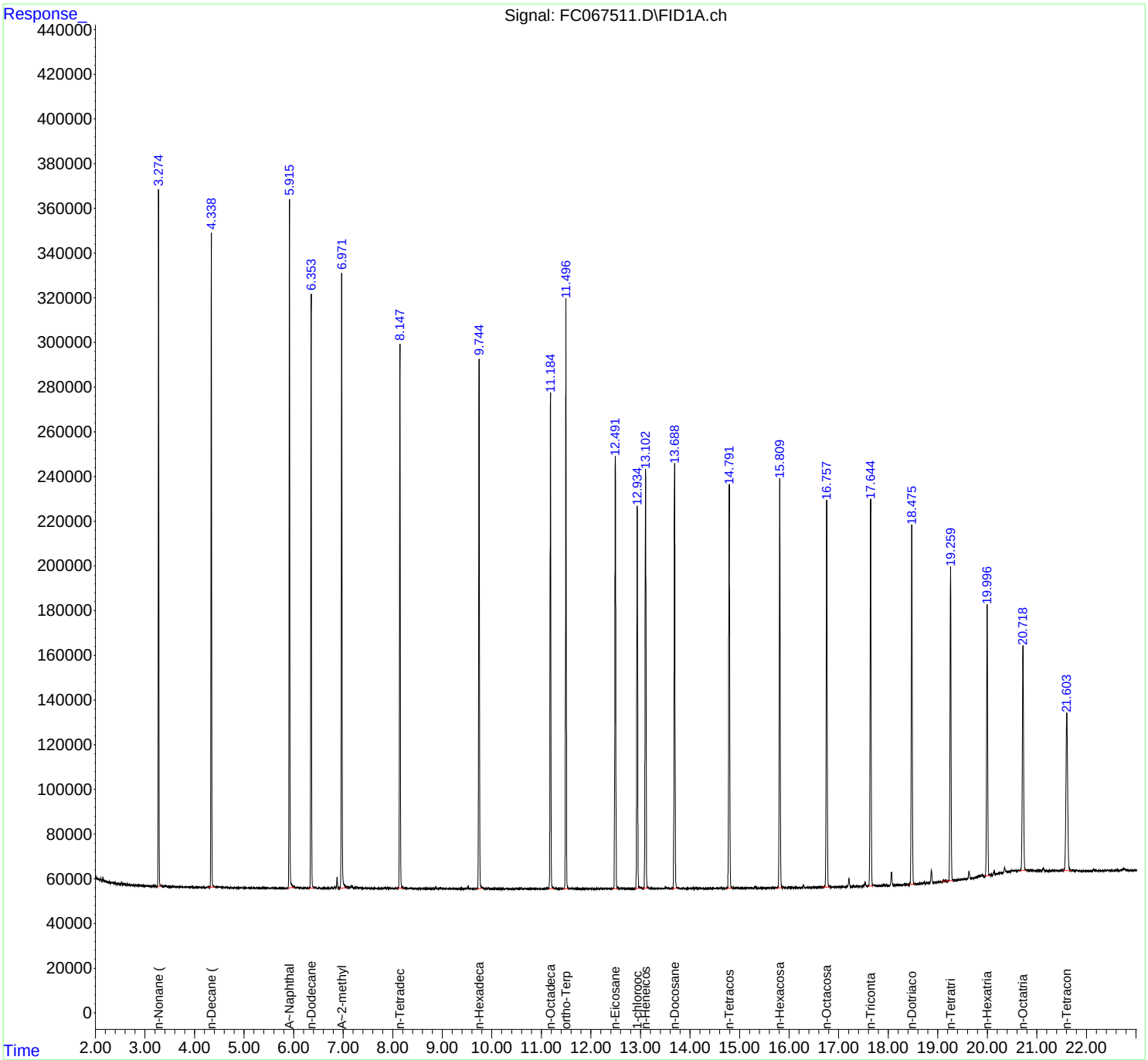
Quantitation Report (QT Reviewed)

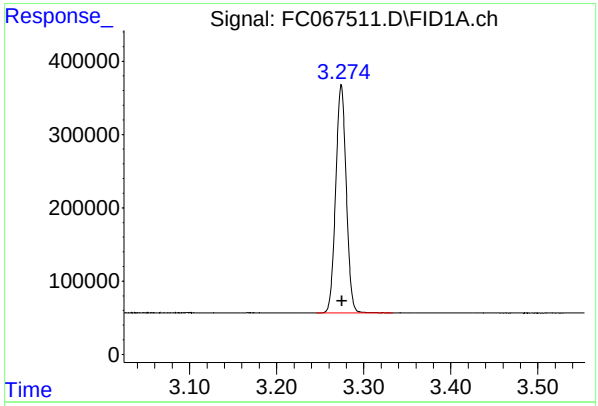
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC102324AL\
Data File : FC067511.D
Signal(s) : FID1A.ch
Acq On : 23 Oct 2024 18:14
Operator : YP/AJ
Sample : 20 PPM ALIPHATIC HC STD ICV
Misc :
ALS Vial : 16 Sample Multiplier: 1

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

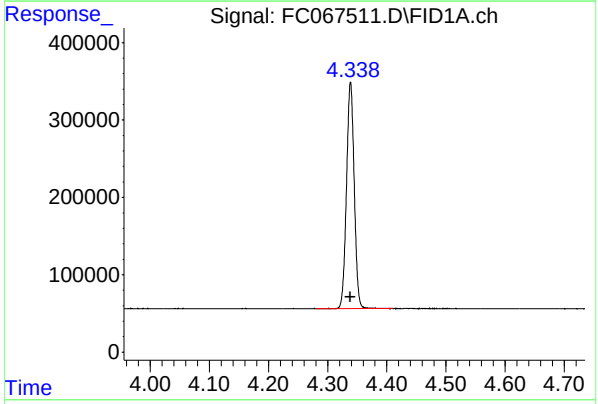




#1 n-Nonane (C9)

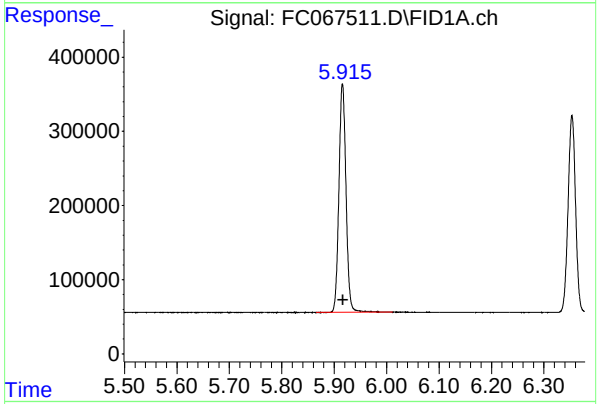
R.T.: 3.274 min
Delta R.T.: 0.000 min
Response: 2613683
Conc: 19.40 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV



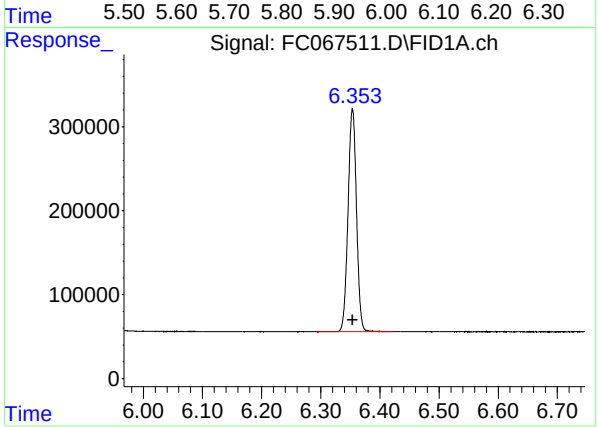
#2 n-Decane (C10)

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



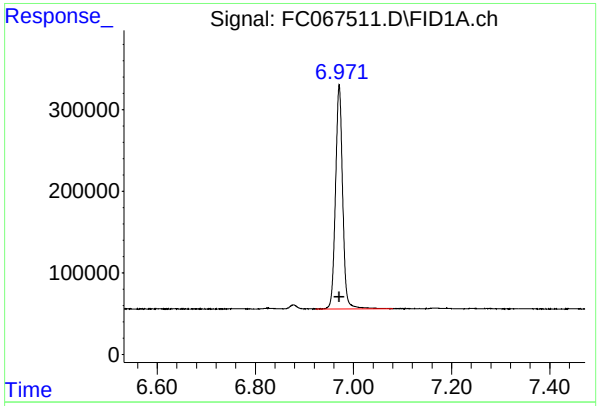
#3 A~Naphthalene (C11.7)

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



#4 n-Dodecane (C12)

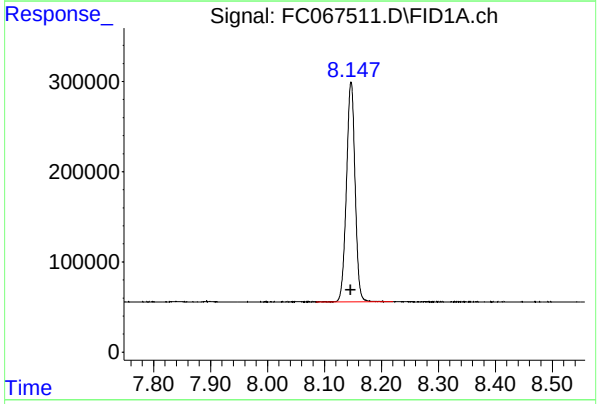
R.T.: 6.354 min
Delta R.T.: 0.000 min
Response: 2640477
Conc: 19.50 ug/ml



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

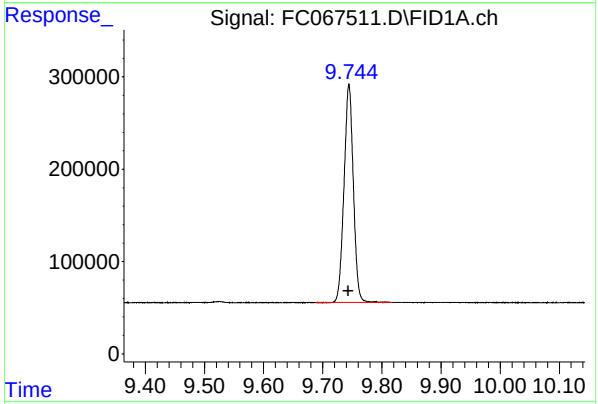
R.T.: 6.971 min
Delta R.T.: 0.000 min
Response: 2771002
Conc: 19.62 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV



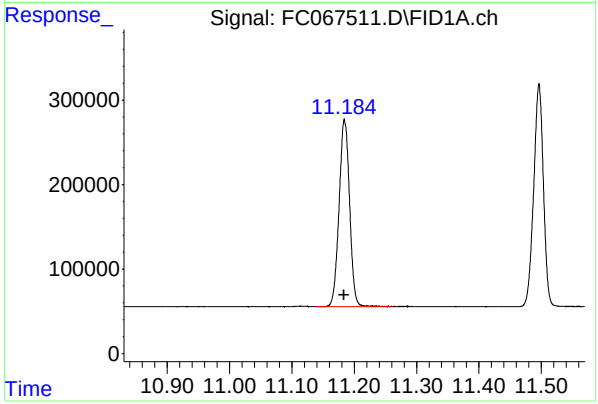
#6 n-Tetradecane (C14)

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



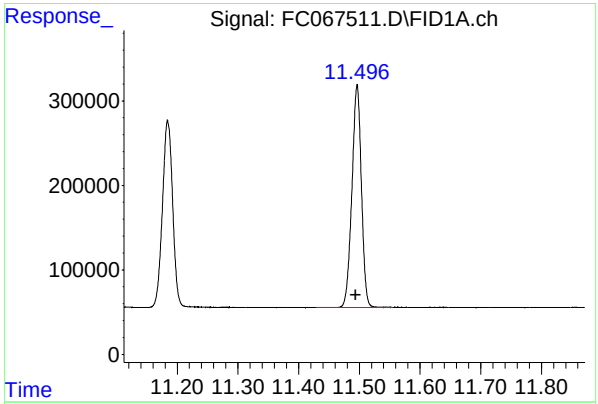
#7 n-Hexadecane (C16)

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



#8 n-Octadecane (C18)

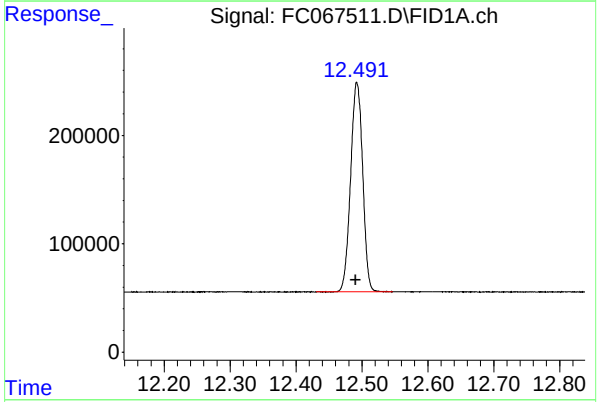
R.T.: 11.185 min
Delta R.T.: 0.000 min
Response: 2593351
Conc: 19.63 ug/ml



#9 ortho-Terphenyl (SURR)

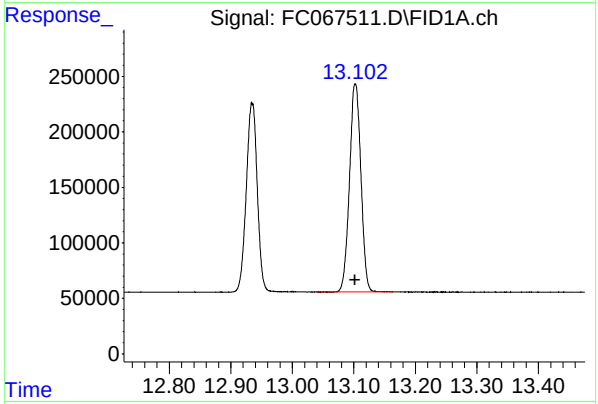
R.T.: 11.496 min
Delta R.T.: 0.002 min
Response: 2853188
Conc: 19.44 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV



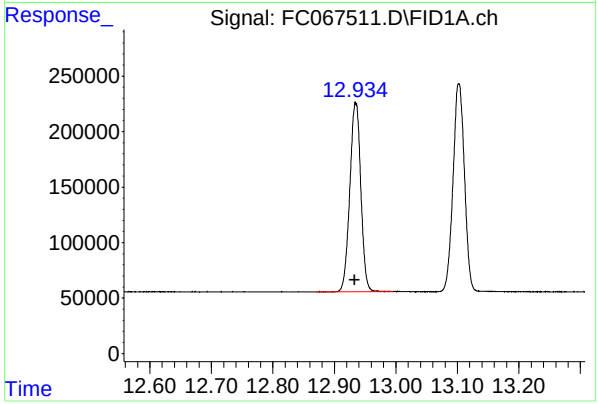
#10 n-Eicosane (C20)

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



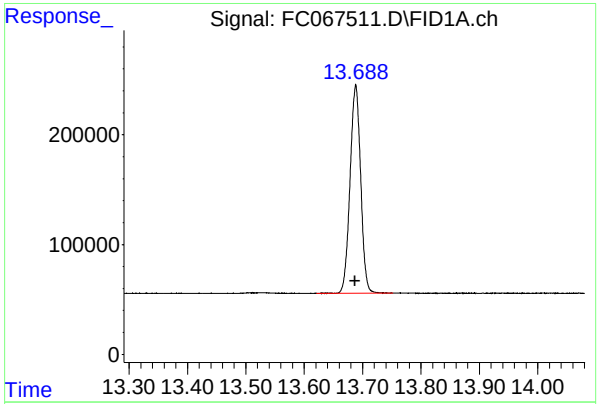
#11 n-Heneicosane (C21)

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



#12 1-chlorooctadecane (SURR)

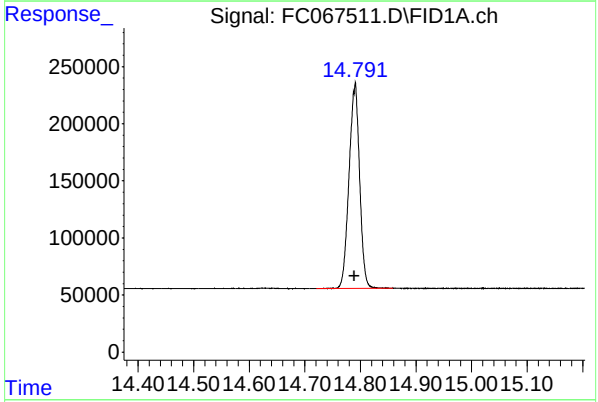
R.T.: 12.935 min
Delta R.T.: 0.002 min
Response: 2112213
Conc: 19.56 ug/ml



#13 n-Docosane (C22)

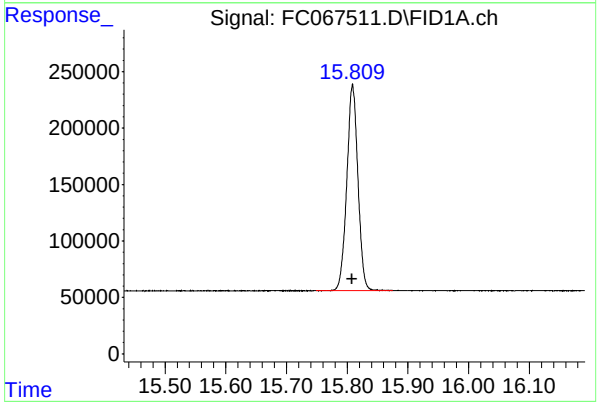
R.T.: 13.688 min
Delta R.T.: 0.000 min
Response: 2390568
Conc: 19.52 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV



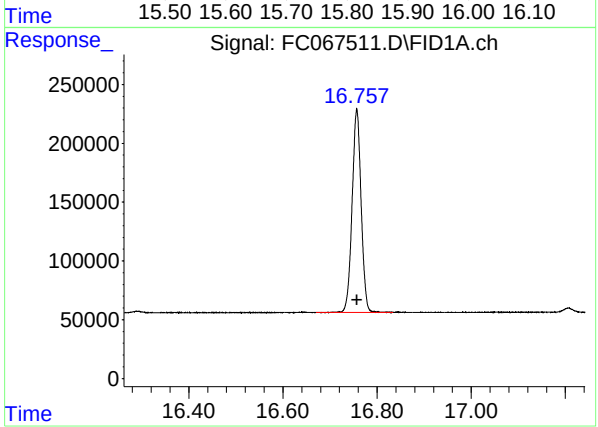
#14 n-Tetracosane (C24)

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



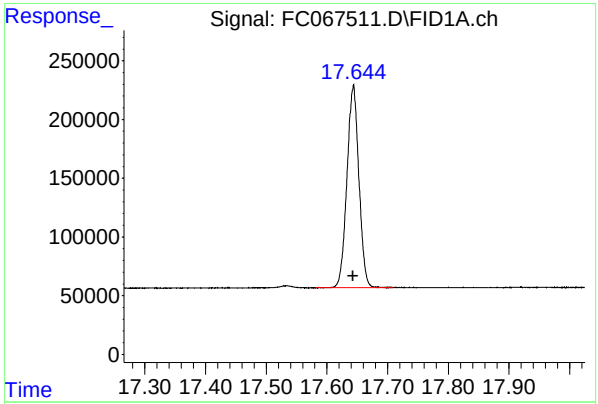
#15 n-Hexacosane (C26)

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



#16 n-Octacosane (C28)

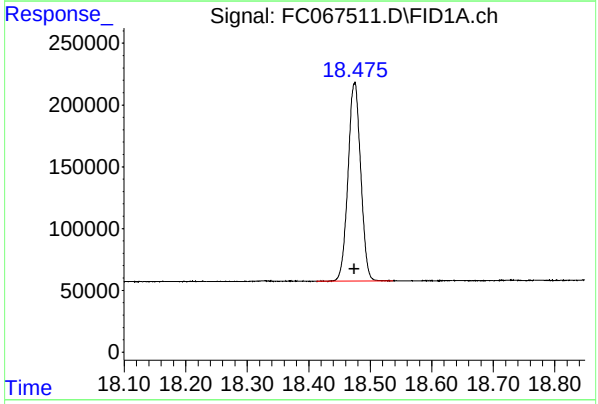
R.T.: 16.757 min
Delta R.T.: 0.000 min
Response: 2297199
Conc: 19.53 ug/ml



#17 n-Tricontane (C30)

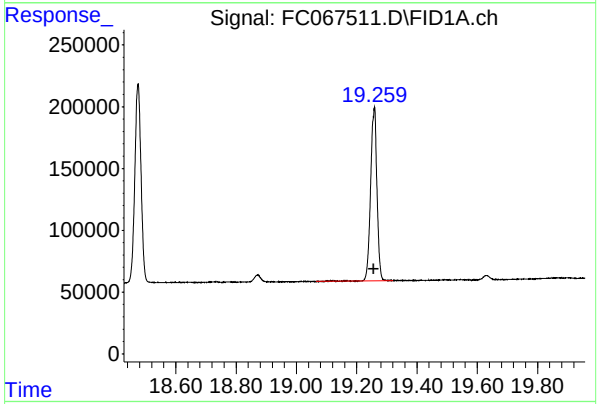
R.T.: 17.643 min
Delta R.T.: 0.000 min
Response: 2353840
Conc: 19.47 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV



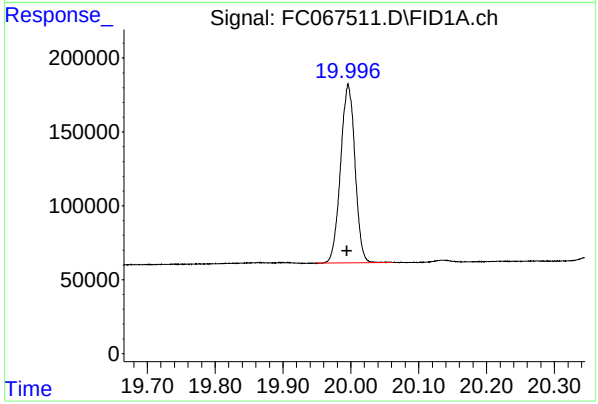
#18 n-Dotriacontane (C32)

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



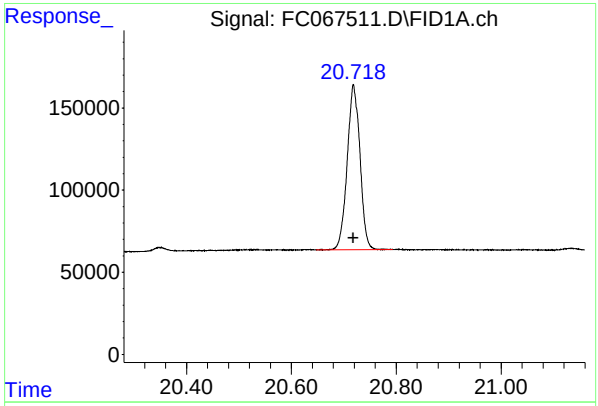
#19 n-Tetratriacontane (C34)

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



#20 n-Hexatriacontane (C36)

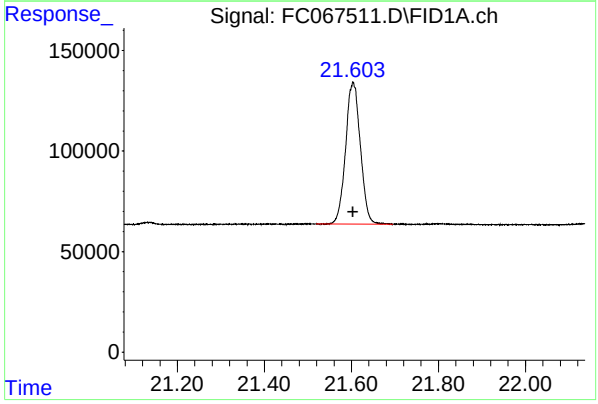
R.T.: 19.996 min
Delta R.T.: 0.002 min
Response: 1784212
Conc: 19.60 ug/ml



#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.

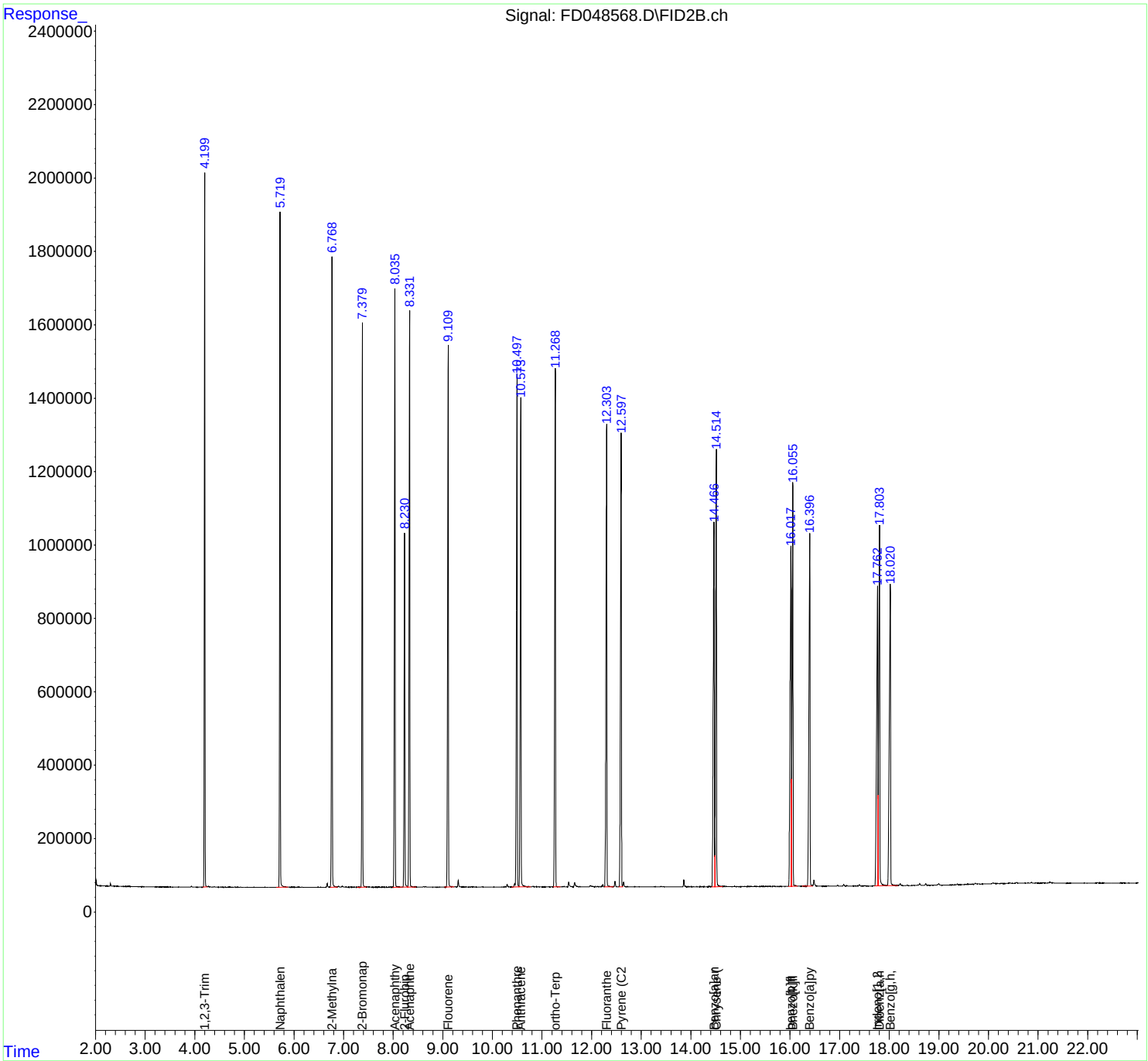
Quantitation Report (QT Reviewed)

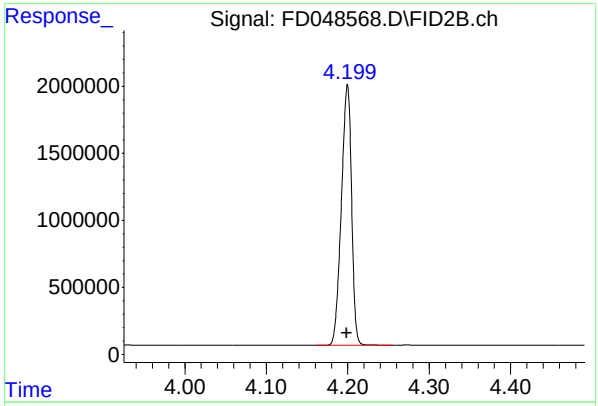
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD102324AR\
Data File : FD048568.D
Signal(s) : FID2B.ch
Acq On : 23 Oct 2024 15:12
Operator : YP/AJ
Sample : 100 PPM AROMATIC HC STD1
Misc :
ALS Vial : 61 Sample Multiplier: 1

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

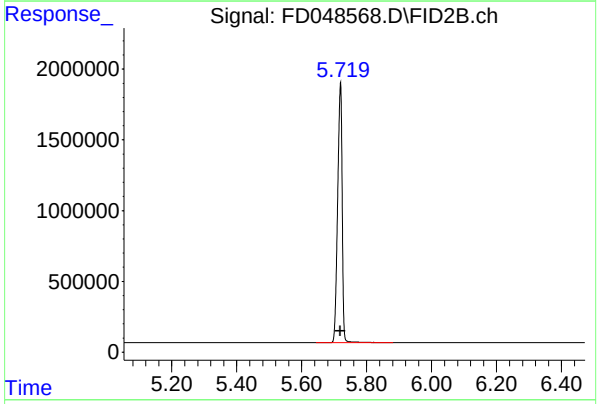




#1 1,2,3-Trimethylbenzene (C10.1)

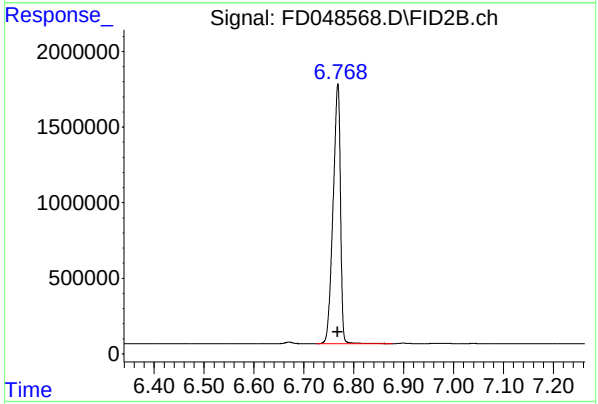
R.T.: 4.199 min
Delta R.T.: 0.000 min
Response: 16947170
Conc: 98.91 ug/ml

Instrument :
FID_D
ClientSampleId :
100 PPM AROMATIC HC STD1



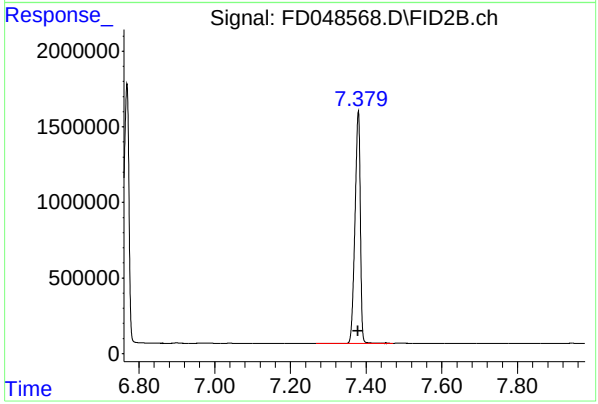
#2 Naphthalene (C11.7)

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



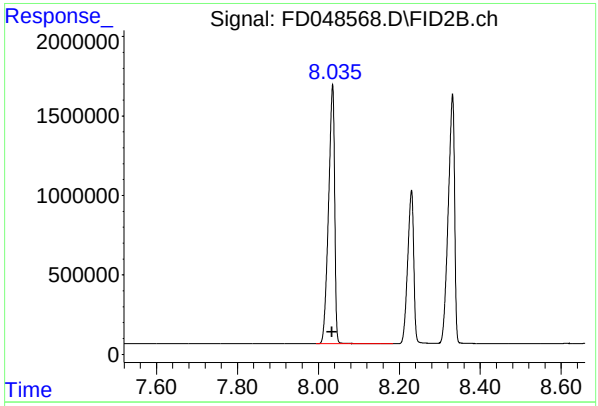
#3 2-Methylnaphthalene (C12.89)

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



#4 2-Bromonaphthalene (SURR)

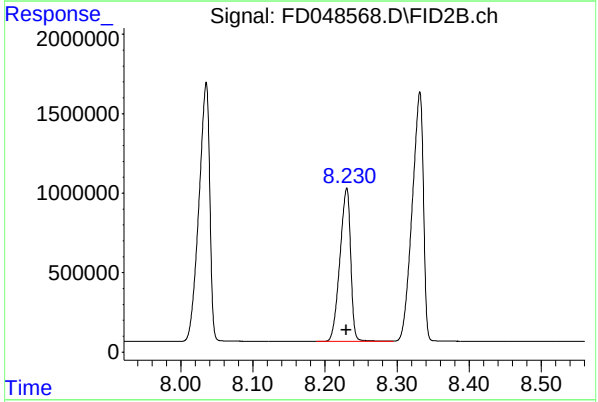
R.T.: 7.379 min
Delta R.T.: 0.000 min
Response: 14919837
Conc: 98.96 ug/ml



#5 Acenaphthylene (C15.06)

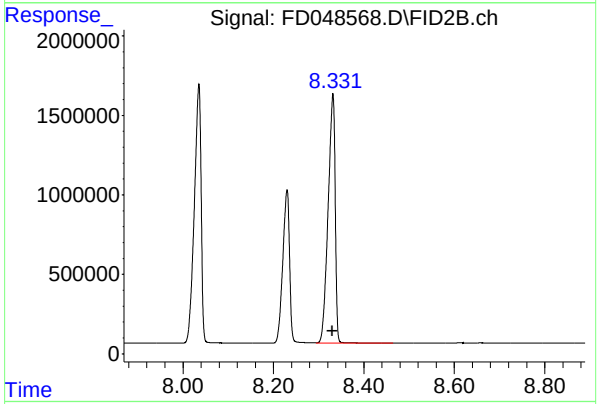
R.T.: 8.034 min
Delta R.T.: 0.000 min
Response: 17045088
Conc: 98.40 ug/ml

Instrument :
FID_D
ClientSampleId :
100 PPM AROMATIC HC STD1



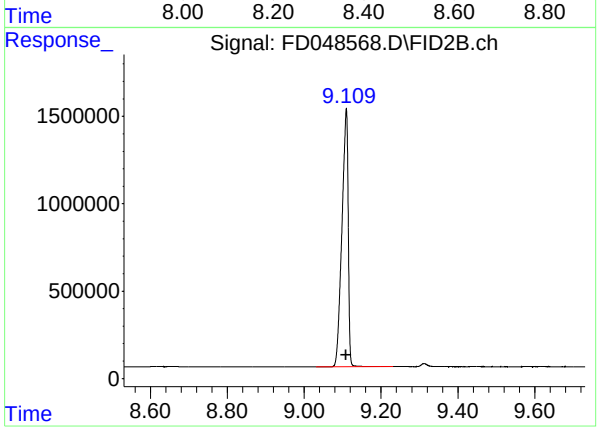
#6 2-Flurobiphenyl (SURR)

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



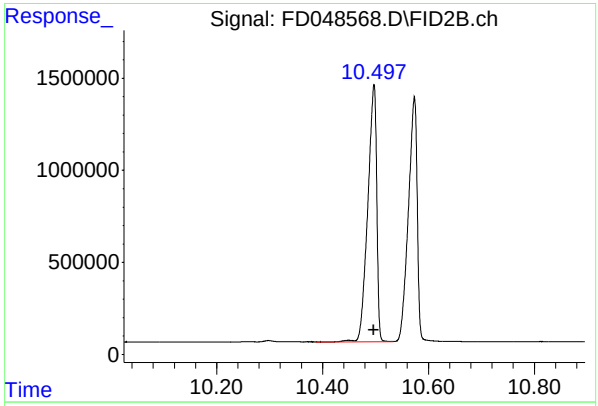
#7 Acenaphthene (C15.5)

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



#8 Flouorene (C16.55)

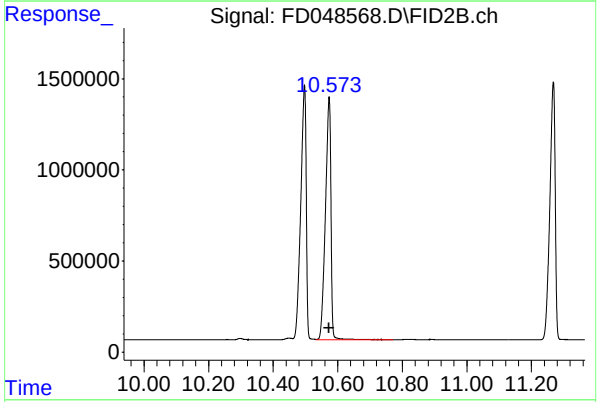
R.T.: 9.109 min
Delta R.T.: 0.000 min
Response: 16673063
Conc: 98.96 ug/ml



#9 Phenanthrene (C19.36)

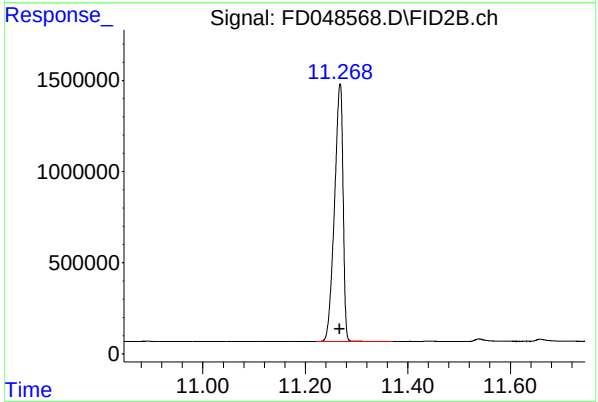
R.T.: 10.496 min
Delta R.T.: 0.000 min
Response: 16410378
Conc: 99.31 ug/ml

Instrument :
FID_D
ClientSampleId :
100 PPM AROMATIC HC STD1



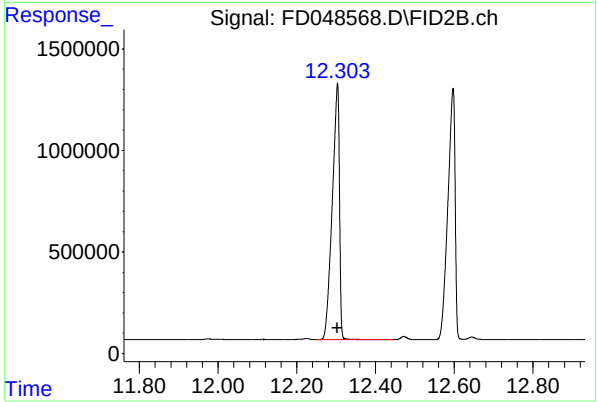
#10 Anthracene (C19.43)

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



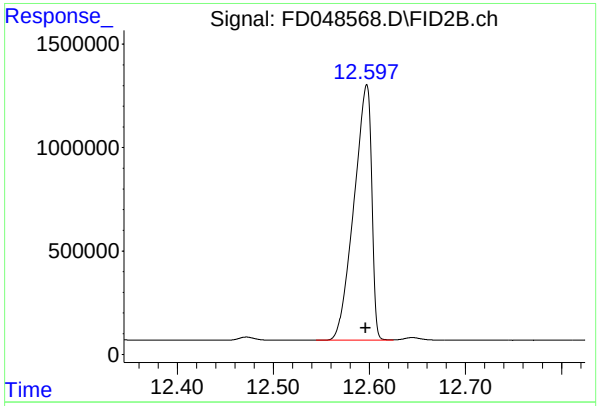
#11 ortho-Terphenyl (SURR)

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



#12 Fluoranthene (C21.85)

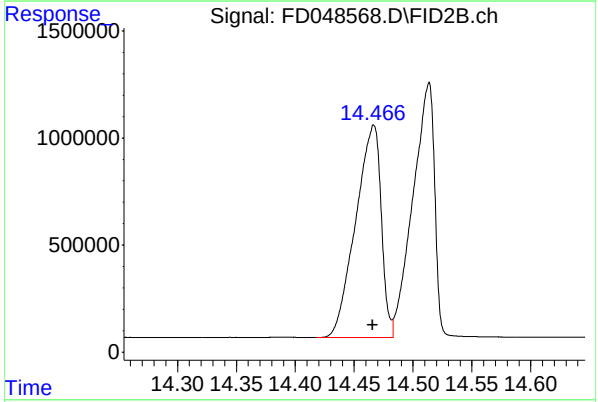
R.T.: 12.302 min
Delta R.T.: 0.000 min
Response: 15981856
Conc: 98.53 ug/ml



#13 Pyrene (C20.8)

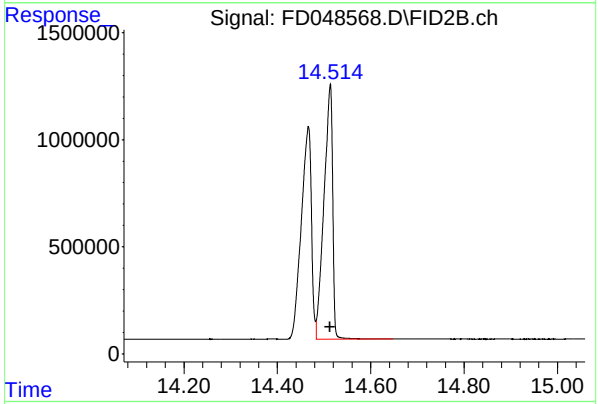
R.T.: 12.596 min
Delta R.T.: 0.000 min
Response: 15811187
Conc: 98.99 ug/ml

Instrument :
FID_D
ClientSampleId :
100 PPM AROMATIC HC STD1



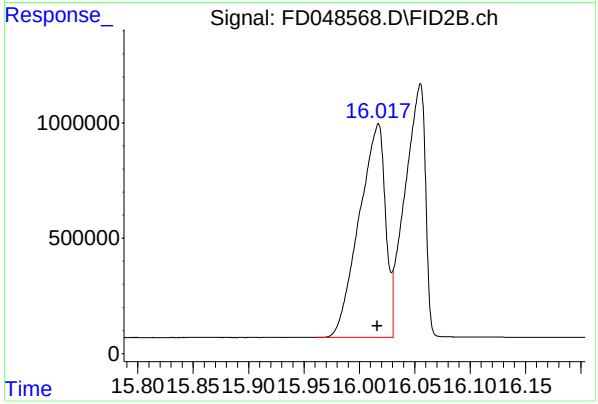
#14 Benzo[a]anthracene (C26.37)

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



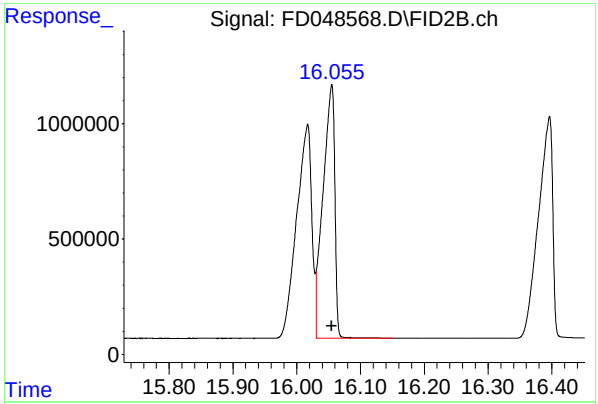
#15 Chrysene (C27.41)

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



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

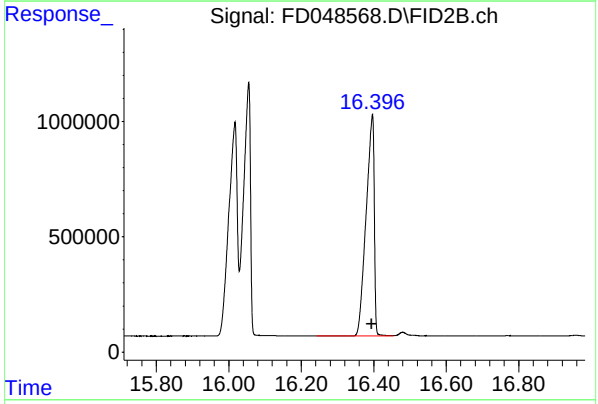
R.T.: 16.016 min
Delta R.T.: 0.000 min
Response: 15350623
Conc: 99.93 ug/ml



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

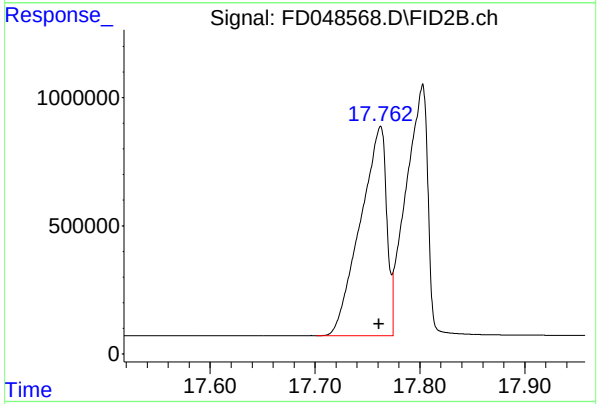
R.T.: 16.054 min
Delta R.T.: -0.001 min
Response: 14161475
Conc: 97.90 ug/ml

Instrument :
FID_D
ClientSampleId :
100 PPM AROMATIC HC STD1



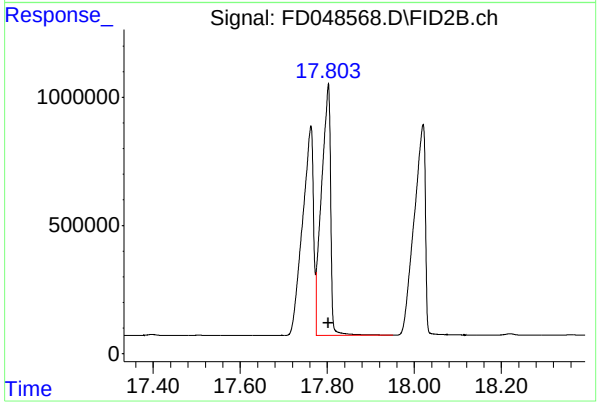
#18 Benzo[a]pyrene (C31.34)

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



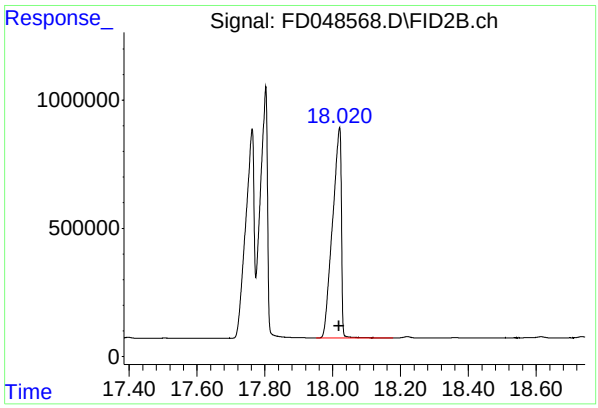
#19 Indeno[1,2,3-cd]pyrene (C35.01)

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.

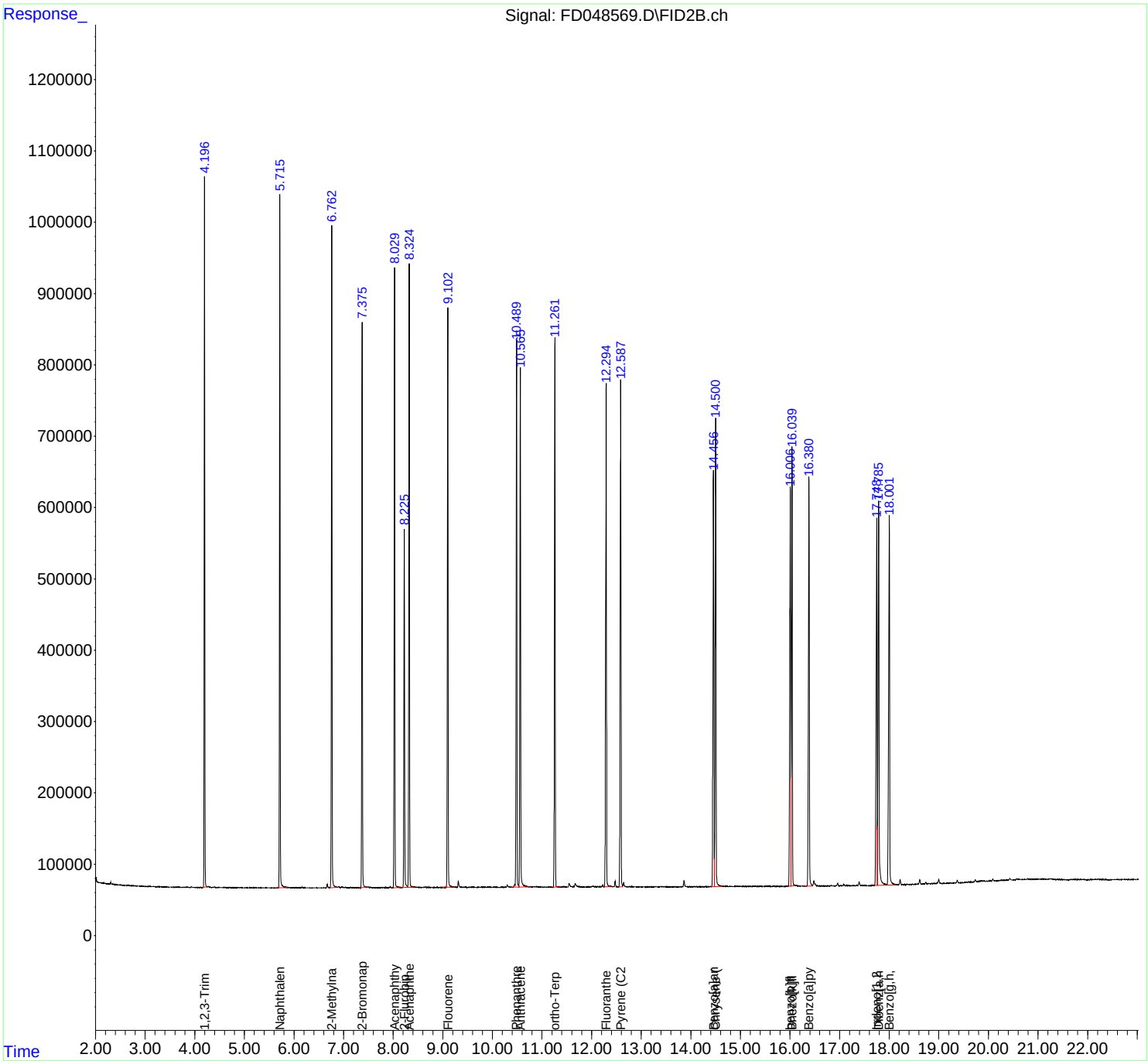
Quantitation Report (QT Reviewed)

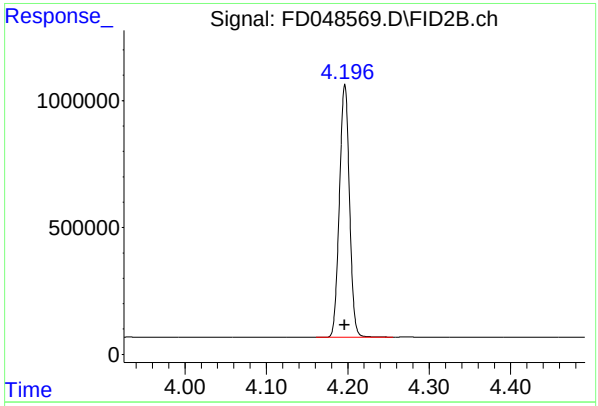
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD102324AR\
Data File : FD048569.D
Signal(s) : FID2B.ch
Acq On : 23 Oct 2024 15:48
Operator : YP/AJ
Sample : 50 PPM AROMATIC HC STD2
Misc :
ALS Vial : 62 Sample Multiplier: 1

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

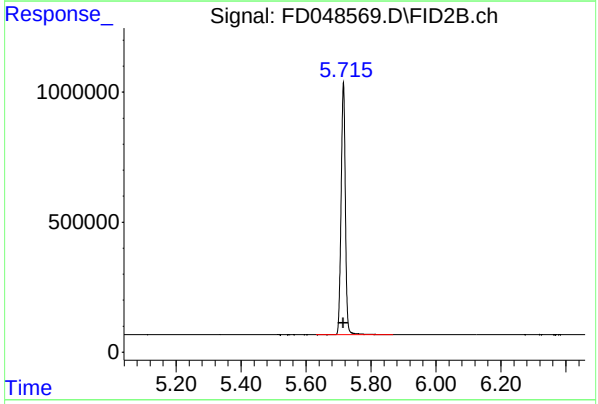




#1 1,2,3-Trimethylbenzene (C10.1)

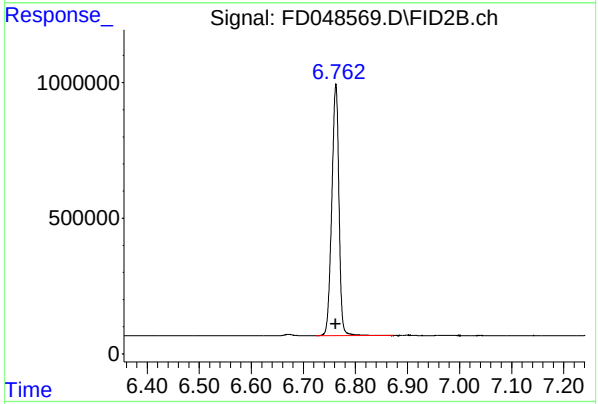
R.T.: 4.196 min
Delta R.T.: 0.000 min
Response: 8539641
Conc: 49.89 ug/ml

Instrument :
FID_D
ClientSampleId :
50 PPM AROMATIC HC STD2



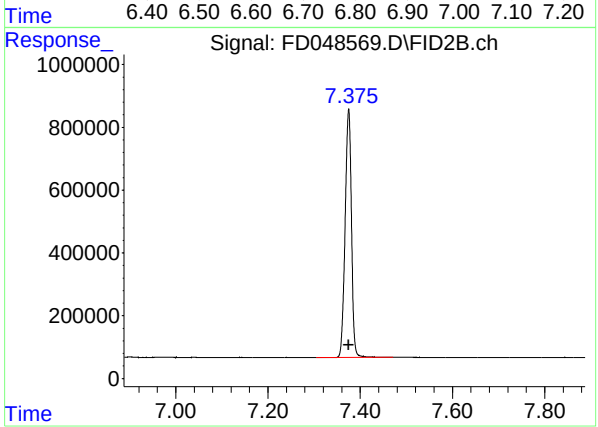
#2 Naphthalene (C11.7)

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



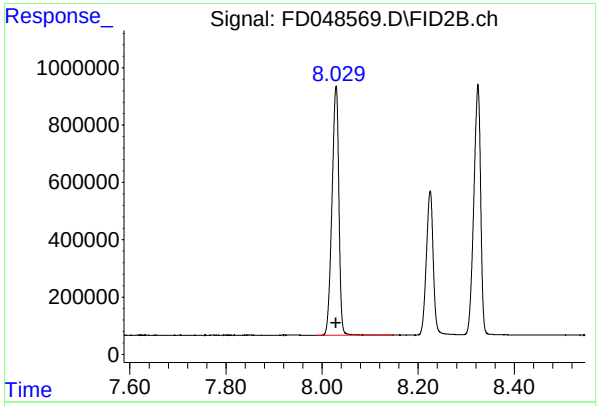
#3 2-Methylnaphthalene (C12.89)

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



#4 2-Bromonaphthalene (SURR)

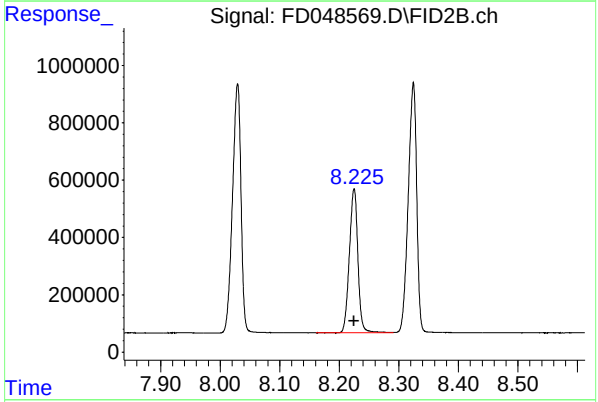
R.T.: 7.375 min
Delta R.T.: 0.000 min
Response: 7529591
Conc: 49.96 ug/ml



#5 Acenaphthylene (C15.06)

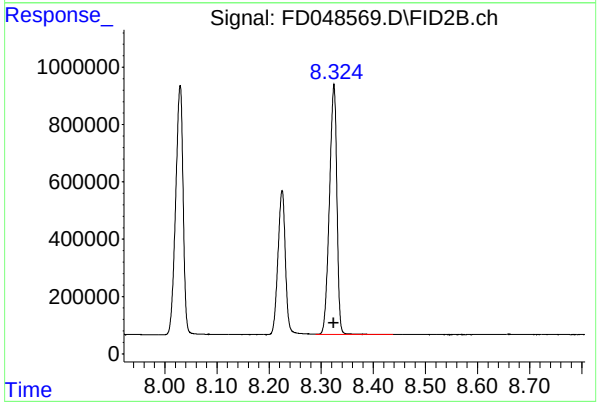
R.T.: 8.029 min
Delta R.T.: 0.000 min
Response: 8649197
Conc: 49.95 ug/ml

Instrument :
FID_D
ClientSampleId :
50 PPM AROMATIC HC STD2



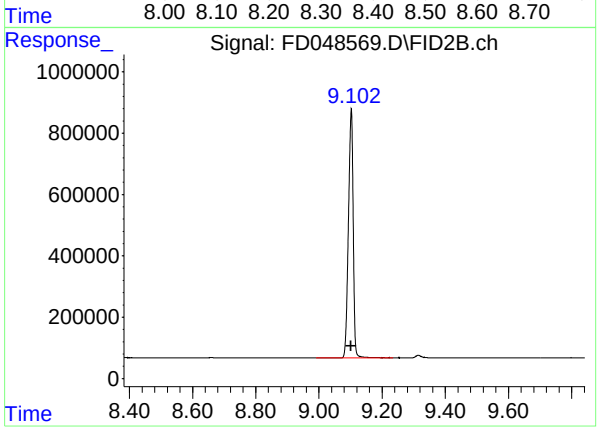
#6 2-Flurobiphenyl (SURR)

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



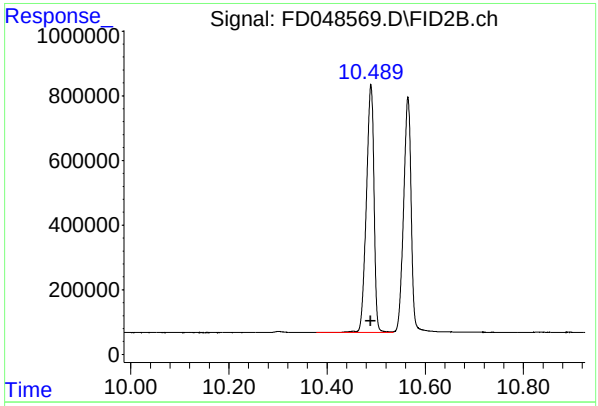
#7 Acenaphthene (C15.5)

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



#8 Flouorene (C16.55)

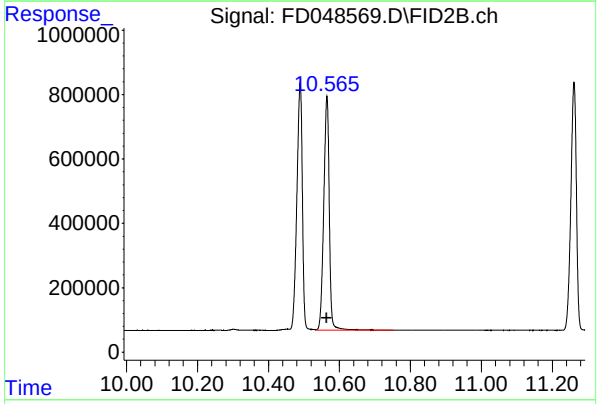
R.T.: 9.102 min
Delta R.T.: 0.000 min
Response: 8428307
Conc: 50.02 ug/ml



#9 Phenanthrene (C19.36)

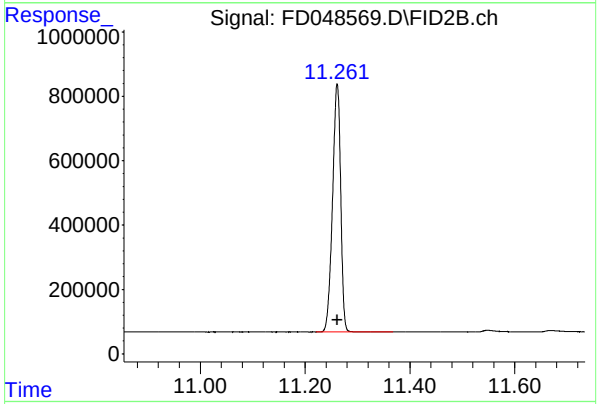
R.T.: 10.489 min
Delta R.T.: 0.000 min
Response: 8272929
Conc: 50.04 ug/ml

Instrument :
FID_D
ClientSampleId :
50 PPM AROMATIC HC STD2



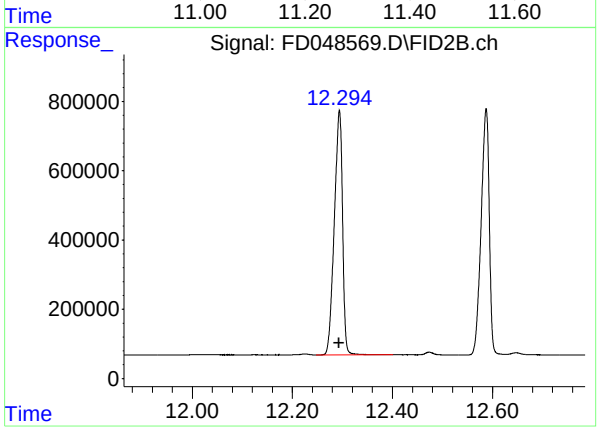
#10 Anthracene (C19.43)

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



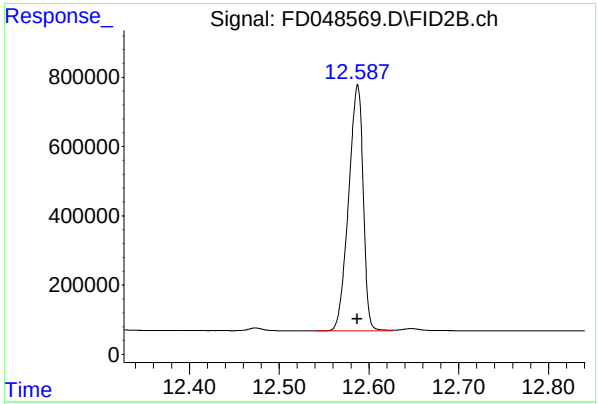
#11 ortho-Terphenyl (SURR)

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



#12 Fluoranthene (C21.85)

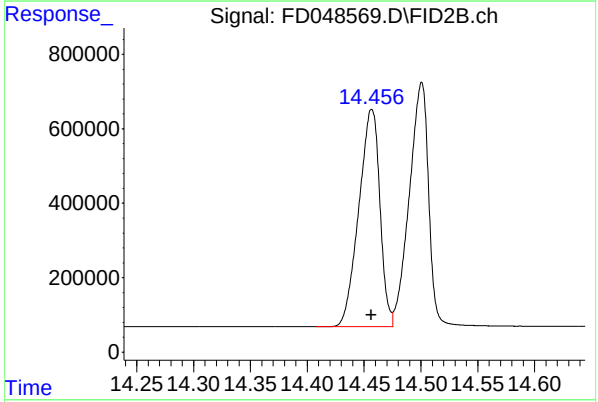
R.T.: 12.294 min
Delta R.T.: 0.000 min
Response: 8076662
Conc: 49.86 ug/ml



#13 Pyrene (C20.8)

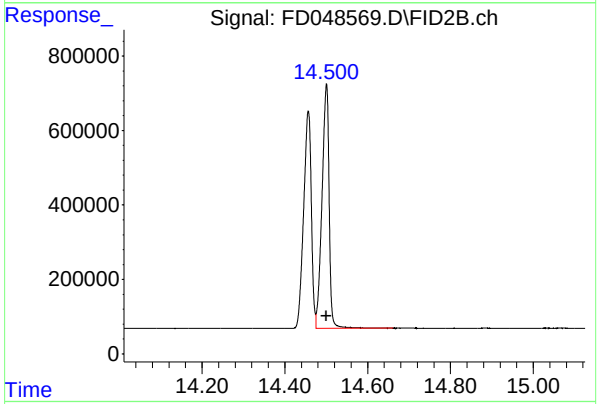
R.T.: 12.587 min
Delta R.T.: 0.000 min
Response: 8025067
Conc: 50.16 ug/ml

Instrument :
FID_D
ClientSampleId :
50 PPM AROMATIC HC STD2



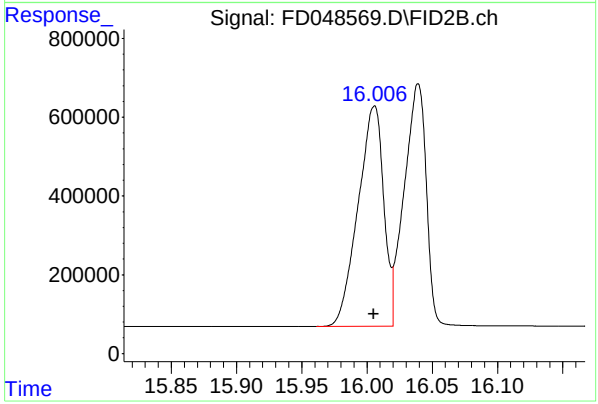
#14 Benzo[a]anthracene (C26.37)

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



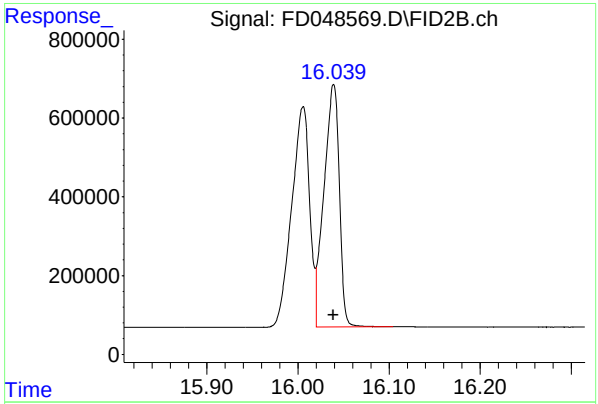
#15 Chrysene (C27.41)

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



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

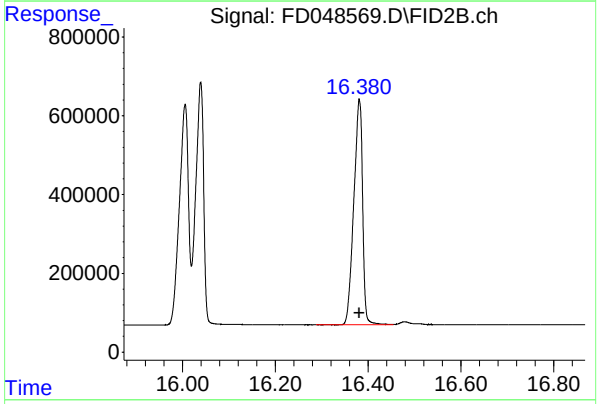
R.T.: 16.005 min
Delta R.T.: 0.000 min
Response: 7671770
Conc: 49.96 ug/ml



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

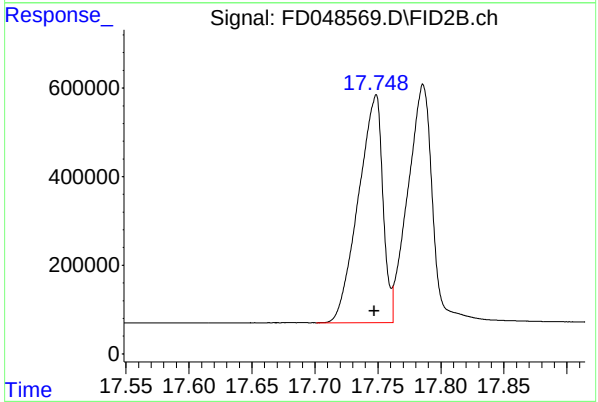
R.T.: 16.039 min
Delta R.T.: 0.000 min
Response: 7231888
Conc: 49.60 ug/ml

Instrument :
FID_D
ClientSampleId :
50 PPM AROMATIC HC STD2



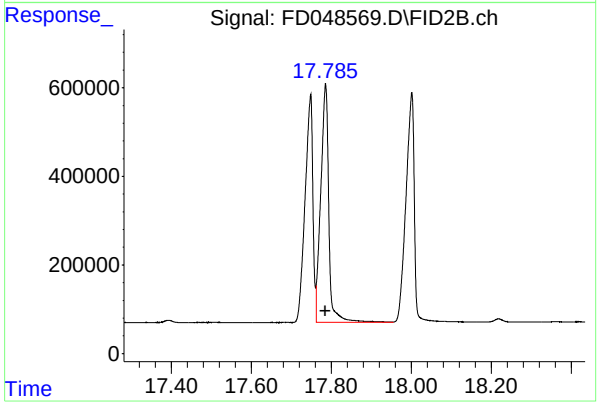
#18 Benzo[a]pyrene (C31.34)

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



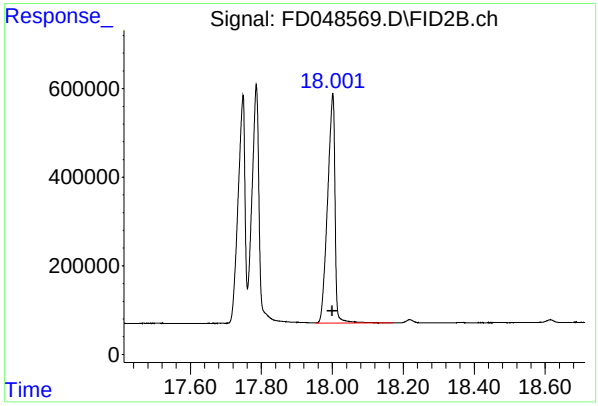
#19 Indeno[1,2,3-cd]pyrene (C35.01)

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.

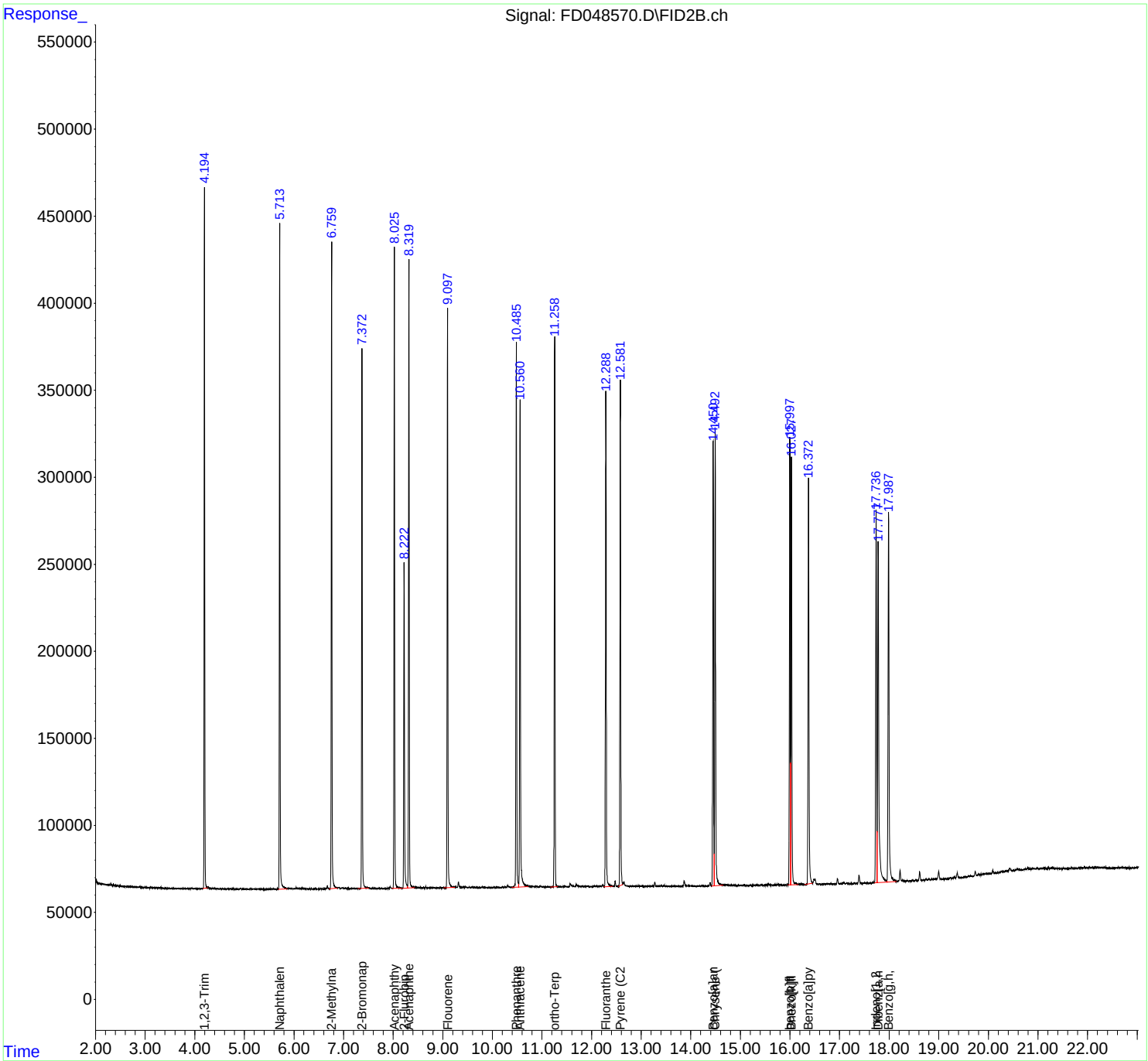
Quantitation Report (QT Reviewed)

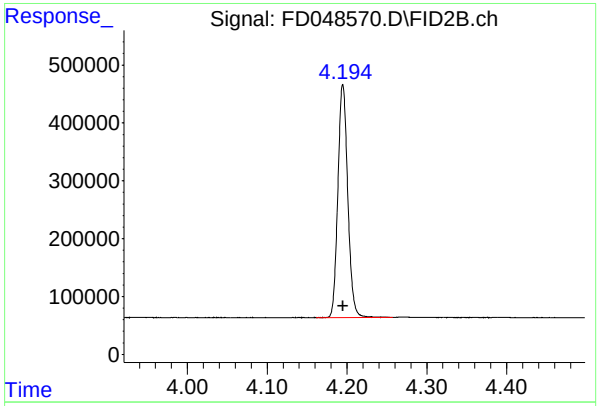
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD102324AR\
Data File : FD048570.D
Signal(s) : FID2B.ch
Acq On : 23 Oct 2024 16:25
Operator : YP/AJ
Sample : 20 PPM AROMATIC HC STD3
Misc :
ALS Vial : 63 Sample Multiplier: 1

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

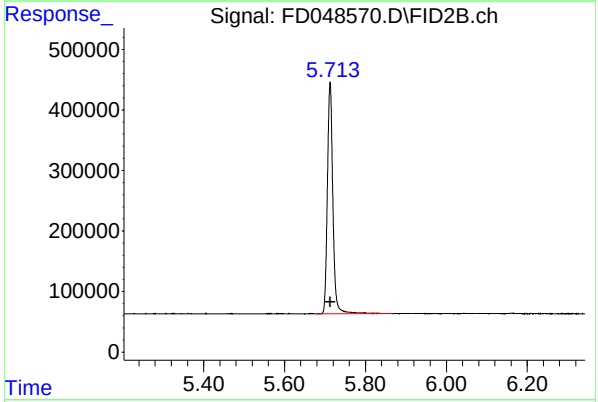




#1 1,2,3-Trimethylbenzene (C10.1)

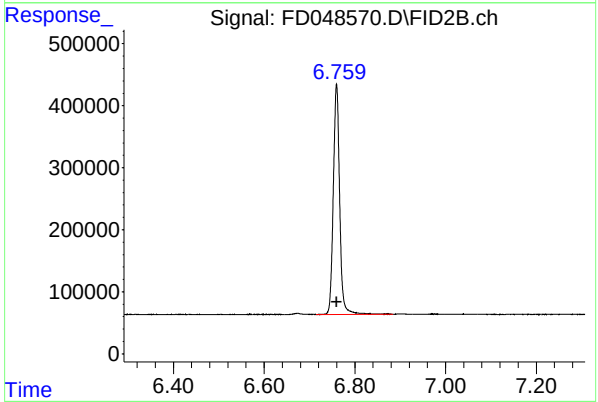
R.T.: 4.195 min
Delta R.T.: 0.000 min
Response: 3464073
Conc: 20.00 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD3



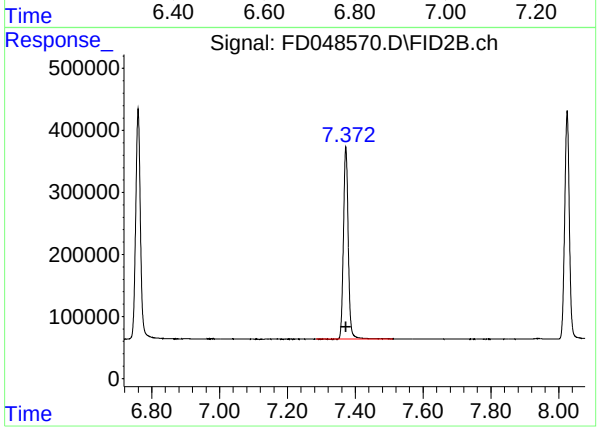
#2 Naphthalene (C11.7)

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



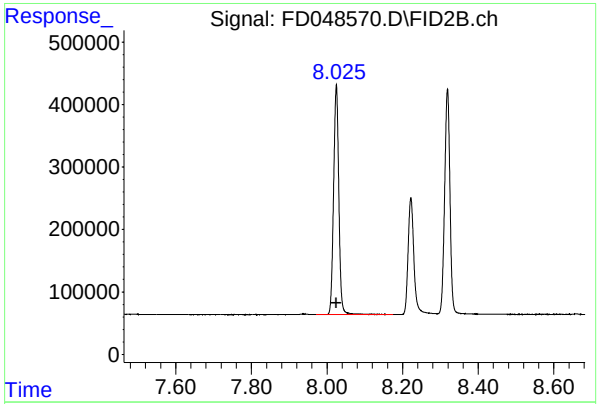
#3 2-Methylnaphthalene (C12.89)

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



#4 2-Bromonaphthalene (SURR)

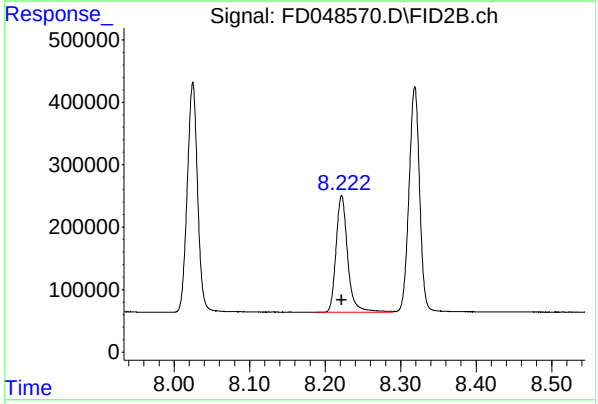
R.T.: 7.372 min
Delta R.T.: 0.000 min
Response: 3046545
Conc: 20.00 ug/ml



#5 Acenaphthylene (C15.06)

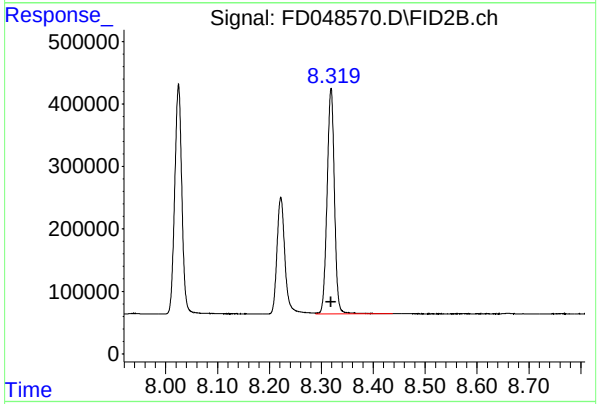
R.T.: 8.025 min
Delta R.T.: 0.000 min
Response: 3519888
Conc: 20.00 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD3



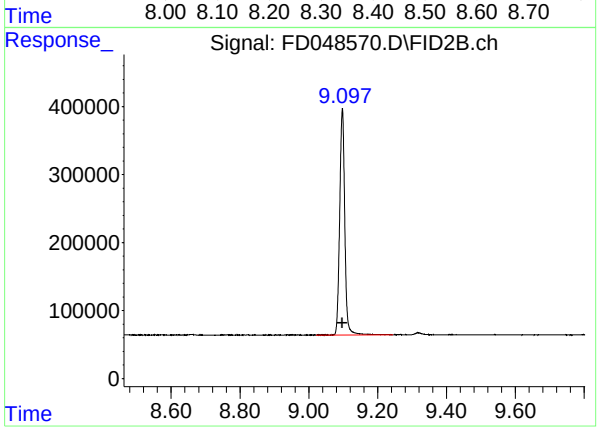
#6 2-Flurobiphenyl (SURR)

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



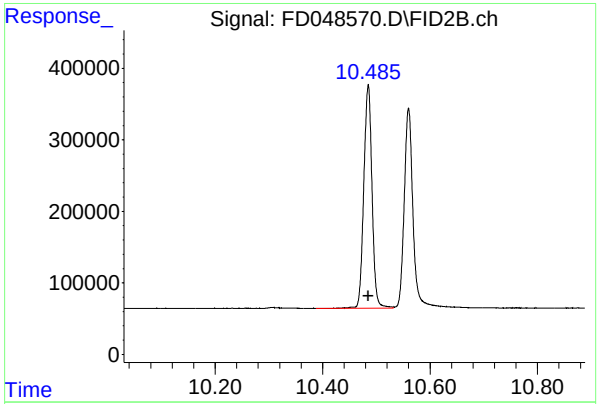
#7 Acenaphthene (C15.5)

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



#8 Flouorene (C16.55)

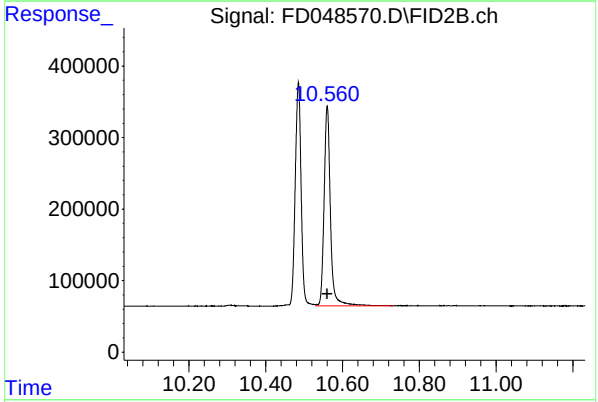
R.T.: 9.097 min
Delta R.T.: 0.000 min
Response: 3404430
Conc: 20.00 ug/ml



#9 Phenanthrene (C19.36)

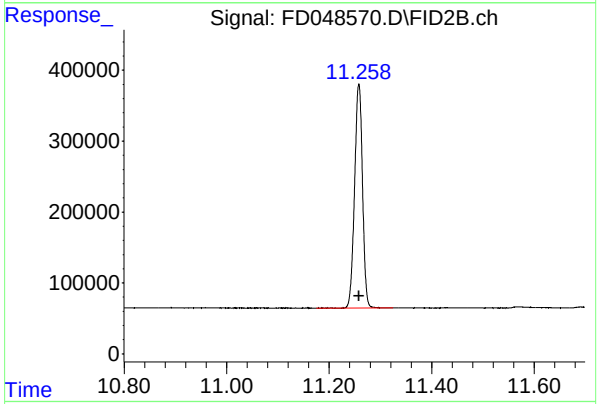
R.T.: 10.485 min
Delta R.T.: 0.000 min
Response: 3327445
Conc: 20.00 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD3



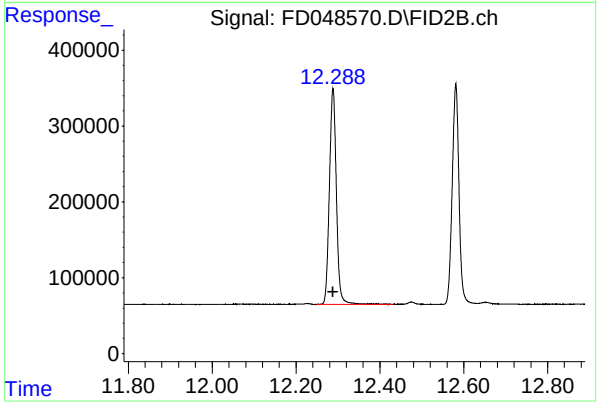
#10 Anthracene (C19.43)

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



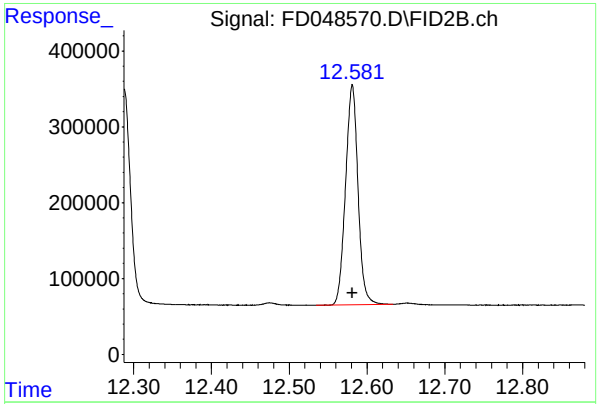
#11 ortho-Terphenyl (SURR)

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



#12 Fluoranthene (C21.85)

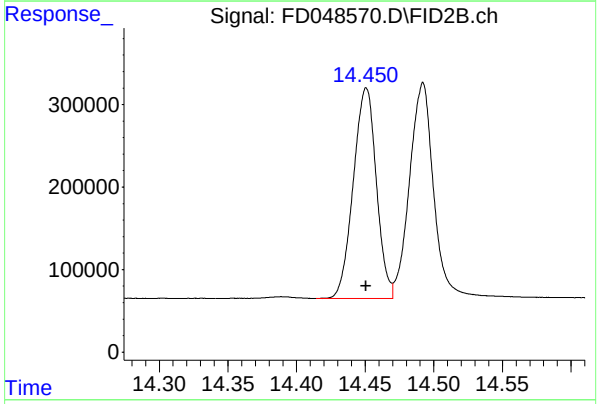
R.T.: 12.288 min
Delta R.T.: 0.000 min
Response: 3291616
Conc: 20.00 ug/ml



#13 Pyrene (C20.8)

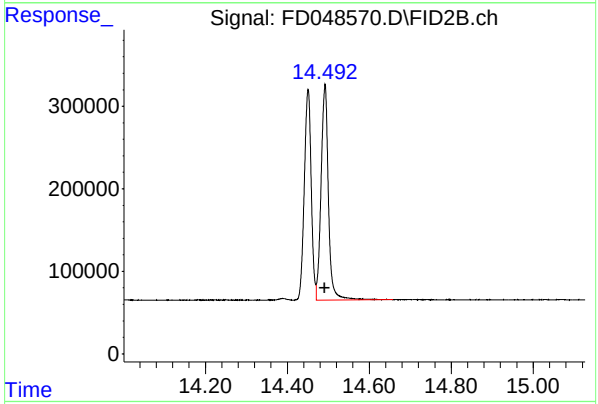
R.T.: 12.581 min
Delta R.T.: 0.000 min
Response: 3226732
Conc: 20.00 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD3



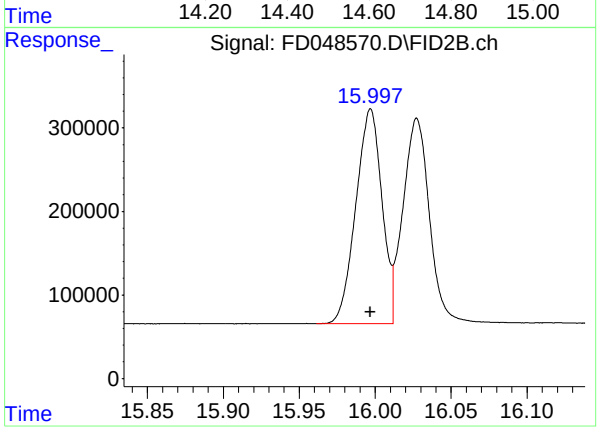
#14 Benzo[a]anthracene (C26.37)

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



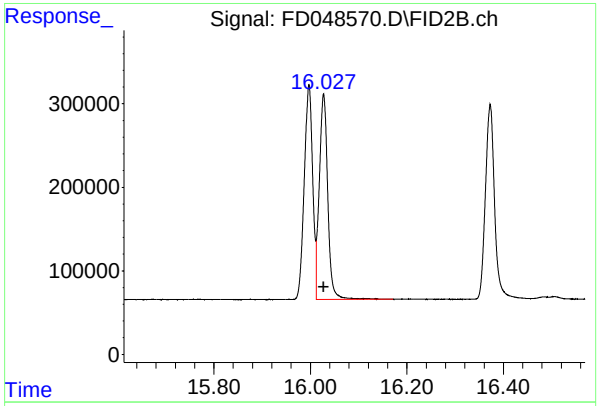
#15 Chrysene (C27.41)

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



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

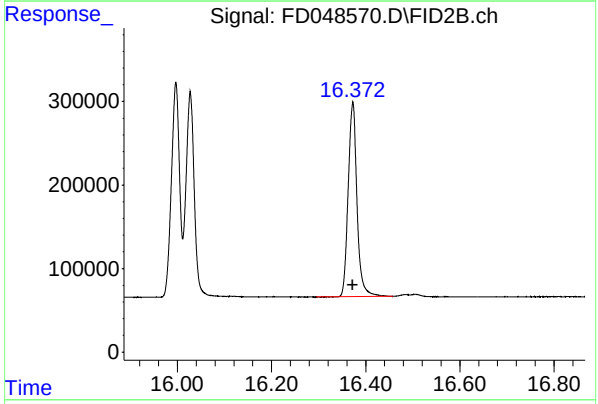
R.T.: 15.997 min
Delta R.T.: 0.000 min
Response: 3074553
Conc: 20.00 ug/ml



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

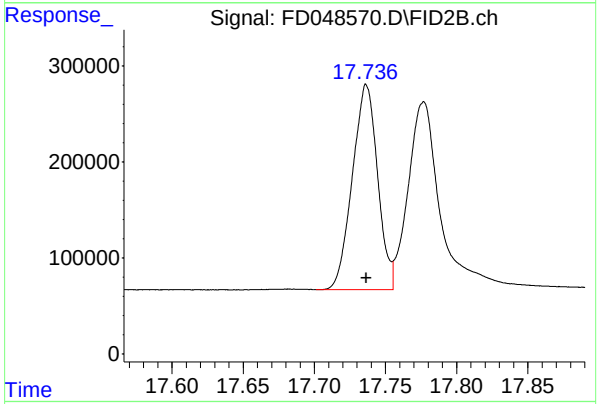
R.T.: 16.027 min
Delta R.T.: 0.000 min
Response: 3023398
Conc: 20.00 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD3



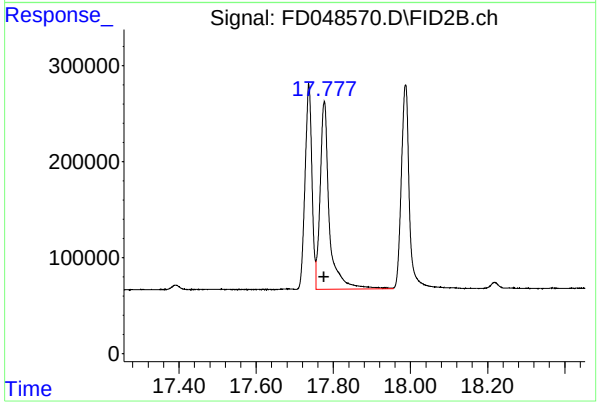
#18 Benzo[a]pyrene (C31.34)

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



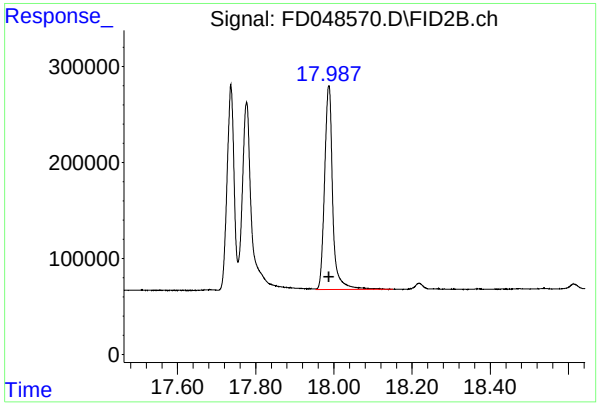
#19 Indeno[1,2,3-cd]pyrene (C35.01)

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.

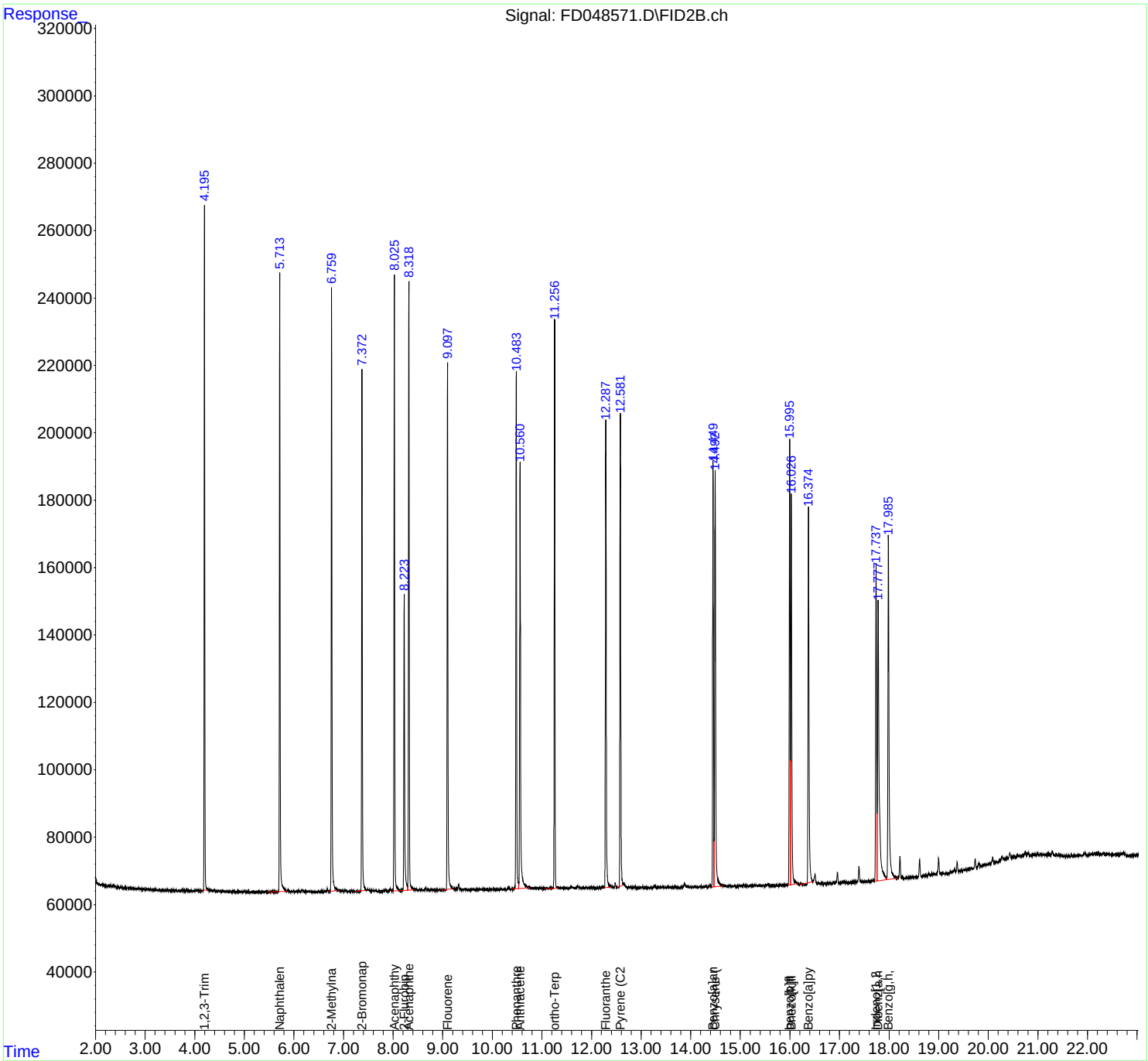
Quantitation Report (QT Reviewed)

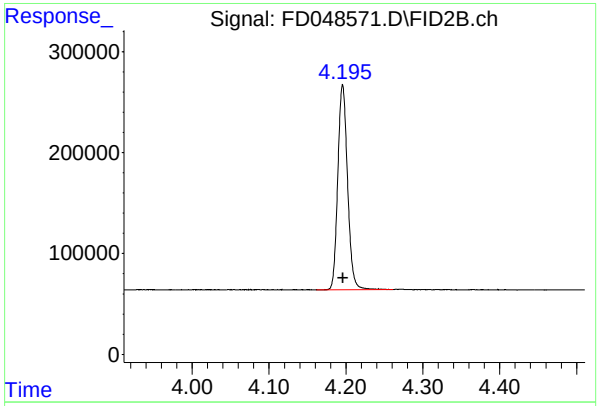
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD102324AR\
Data File : FD048571.D
Signal(s) : FID2B.ch
Acq On : 23 Oct 2024 17:02
Operator : YP/AJ
Sample : 10 PPM AROMATIC HC STD4
Misc :
ALS Vial : 64 Sample Multiplier: 1

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

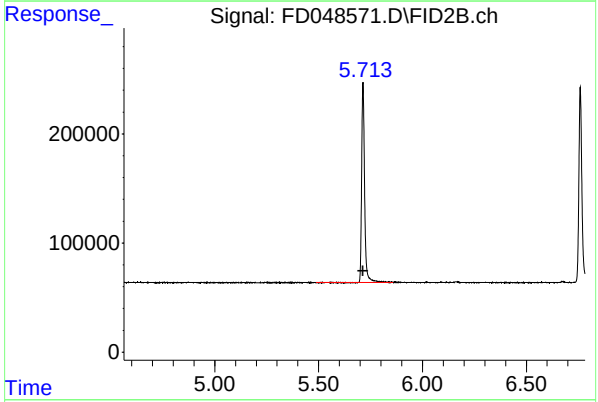




#1 1,2,3-Trimethylbenzene (C10.1)

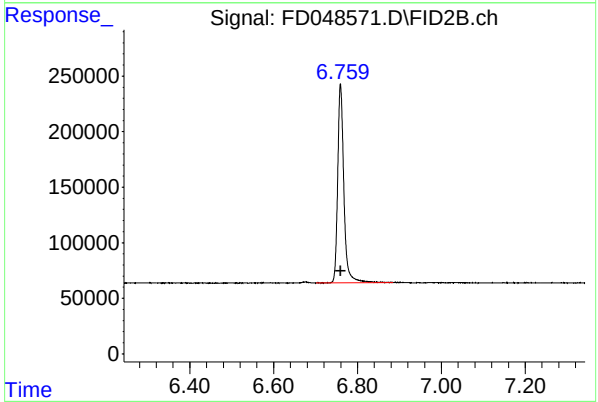
R.T.: 4.196 min
Delta R.T.: 0.000 min
Response: 1780007
Conc: 10.30 ug/ml

Instrument :
FID_D
ClientSampleId :
10 PPM AROMATIC HC STD4



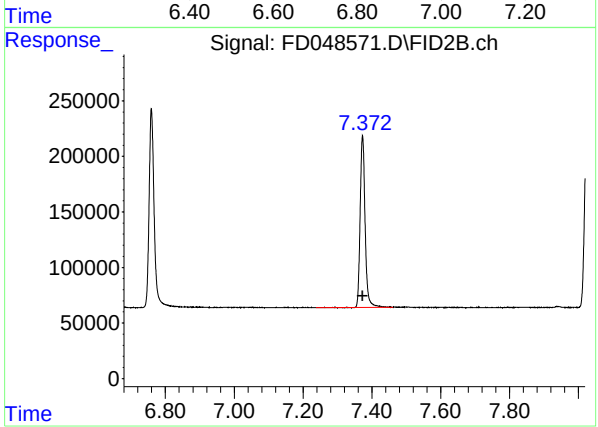
#2 Naphthalene (C11.7)

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



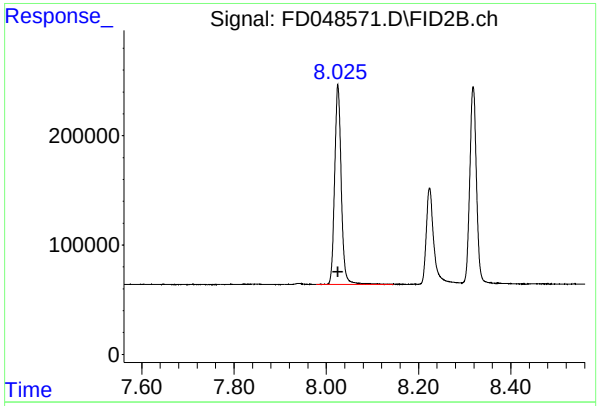
#3 2-Methylnaphthalene (C12.89)

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



#4 2-Bromonaphthalene (SURR)

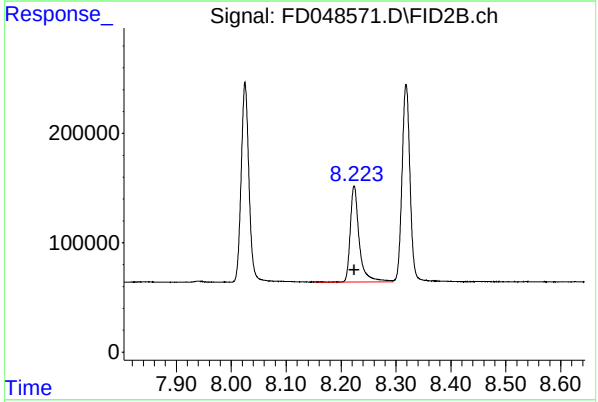
R.T.: 7.373 min
Delta R.T.: 0.000 min
Response: 1535833
Conc: 10.14 ug/ml



#5 Acenaphthylene (C15.06)

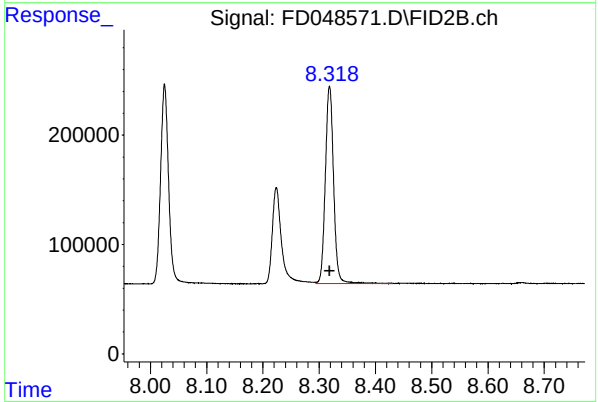
R.T.: 8.025 min
Delta R.T.: 0.000 min
Response: 1809718
Conc: 10.34 ug/ml

Instrument :
FID_D
ClientSampleId :
10 PPM AROMATIC HC STD4



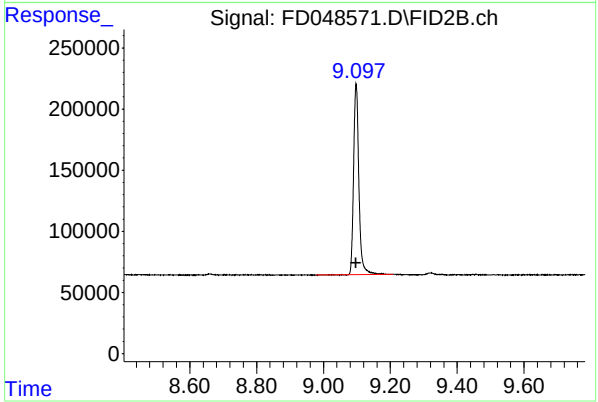
#6 2-Flurobiphenyl (SURR)

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



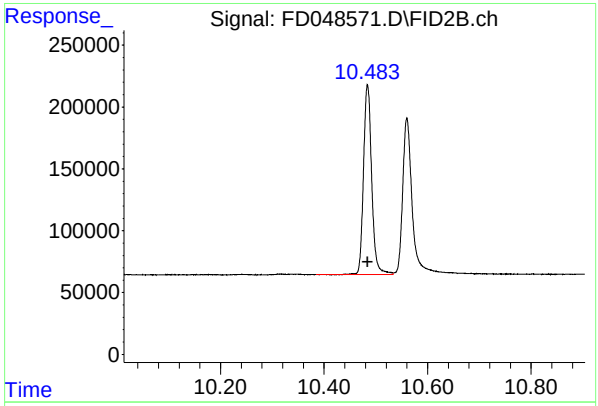
#7 Acenaphthene (C15.5)

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



#8 Flouorene (C16.55)

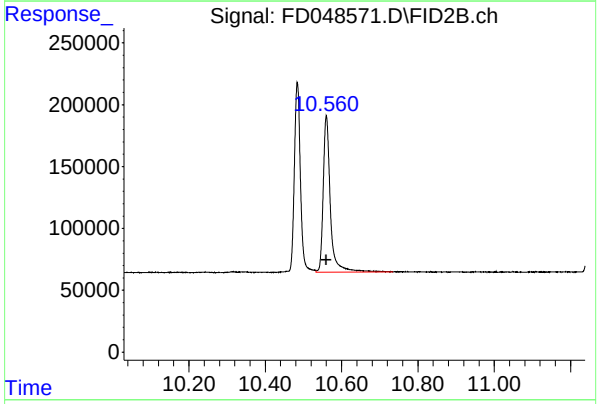
R.T.: 9.098 min
Delta R.T.: 0.000 min
Response: 1719817
Conc: 10.15 ug/ml



#9 Phenanthrene (C19.36)

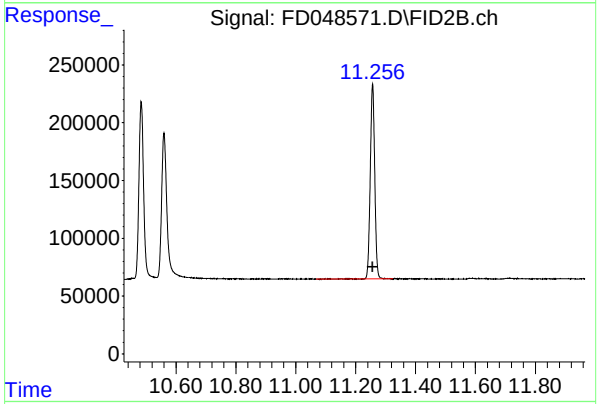
R.T.: 10.484 min
Delta R.T.: 0.000 min
Response: 1680489
Conc: 10.12 ug/ml

Instrument :
FID_D
ClientSampleId :
10 PPM AROMATIC HC STD4



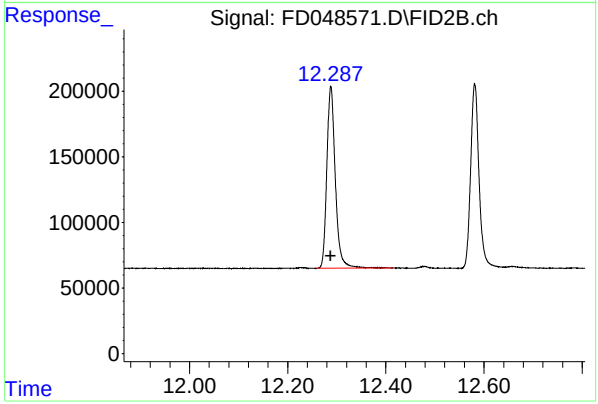
#10 Anthracene (C19.43)

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



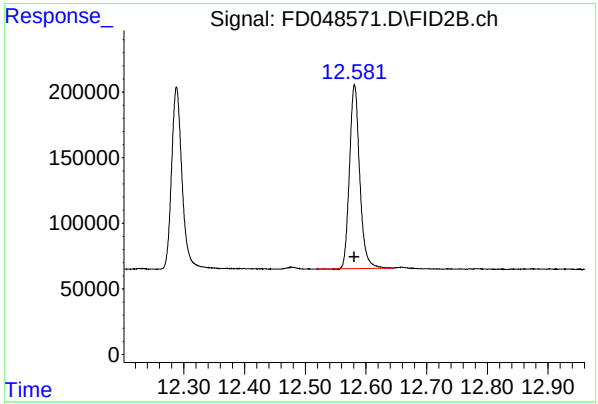
#11 ortho-Terphenyl (SURR)

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



#12 Fluoranthene (C21.85)

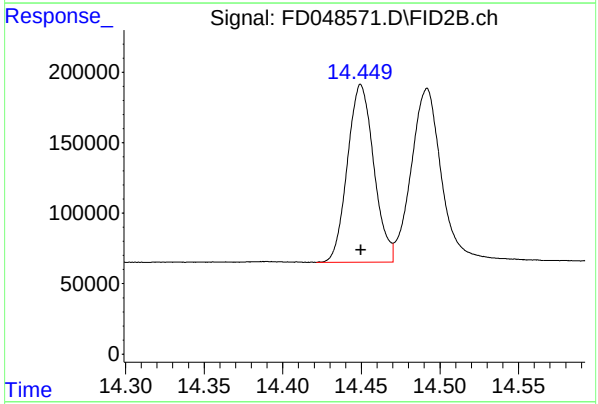
R.T.: 12.288 min
Delta R.T.: 0.000 min
Response: 1671203
Conc: 10.24 ug/ml



#13 Pyrene (C20.8)

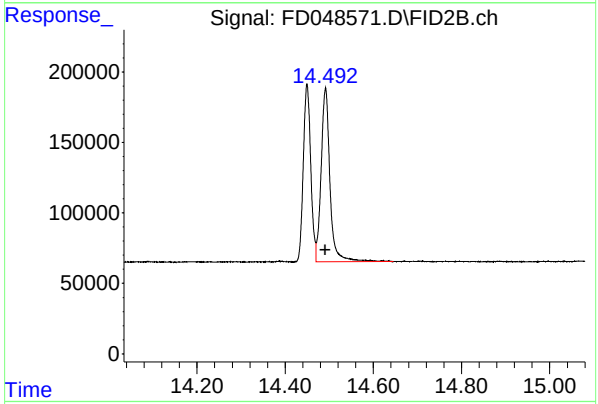
R.T.: 12.581 min
Delta R.T.: 0.000 min
Response: 1639022
Conc: 10.18 ug/ml

Instrument :
FID_D
ClientSampleId :
10 PPM AROMATIC HC STD4



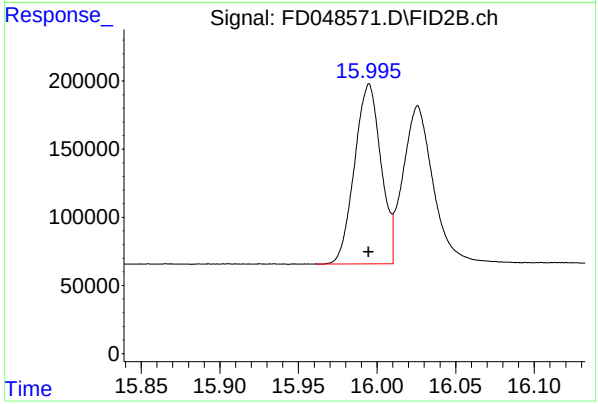
#14 Benzo[a]anthracene (C26.37)

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



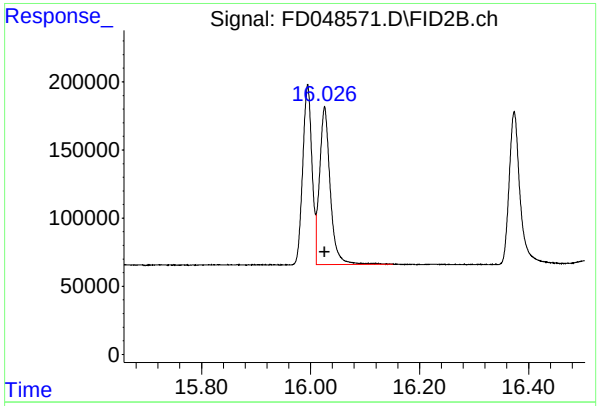
#15 Chrysene (C27.41)

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



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

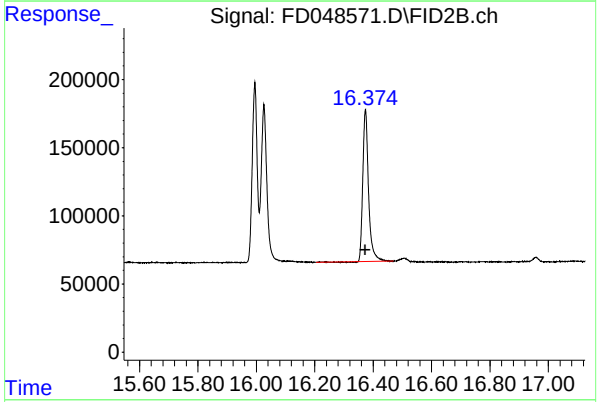
R.T.: 15.995 min
Delta R.T.: 0.000 min
Response: 1544713
Conc: 10.04 ug/ml



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

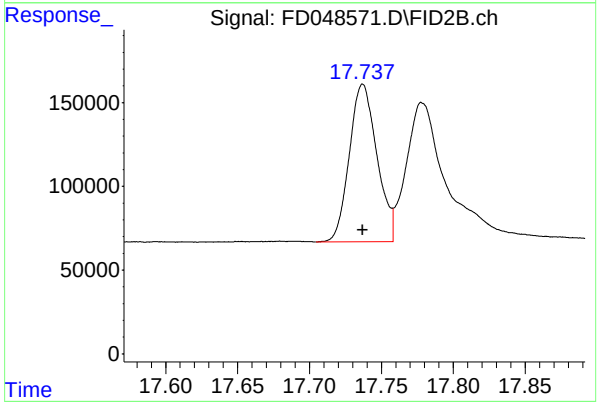
R.T.: 16.026 min
Delta R.T.: 0.000 min
Response: 1579300
Conc: 10.61 ug/ml

Instrument :
FID_D
ClientSampleId :
10 PPM AROMATIC HC STD4



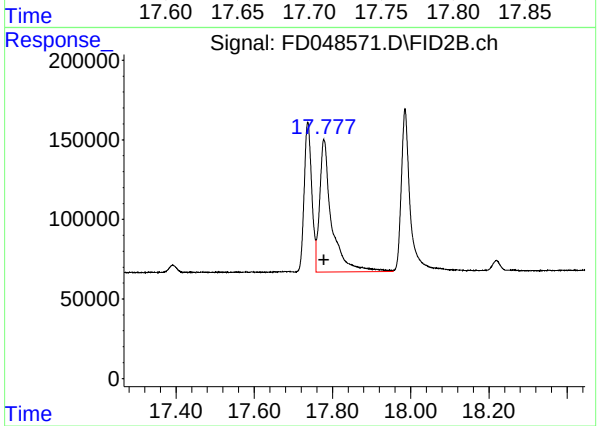
#18 Benzo[a]pyrene (C31.34)

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



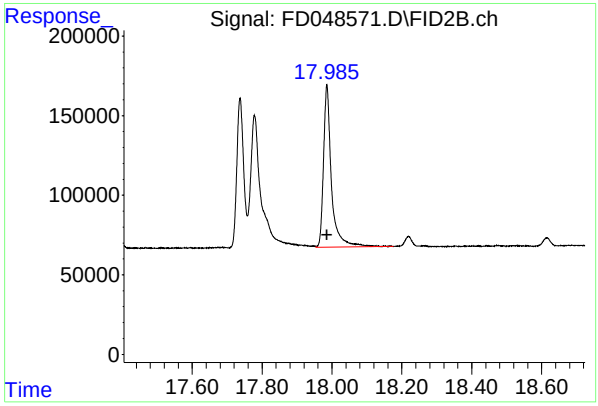
#19 Indeno[1,2,3-cd]pyrene (C35.01)

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.

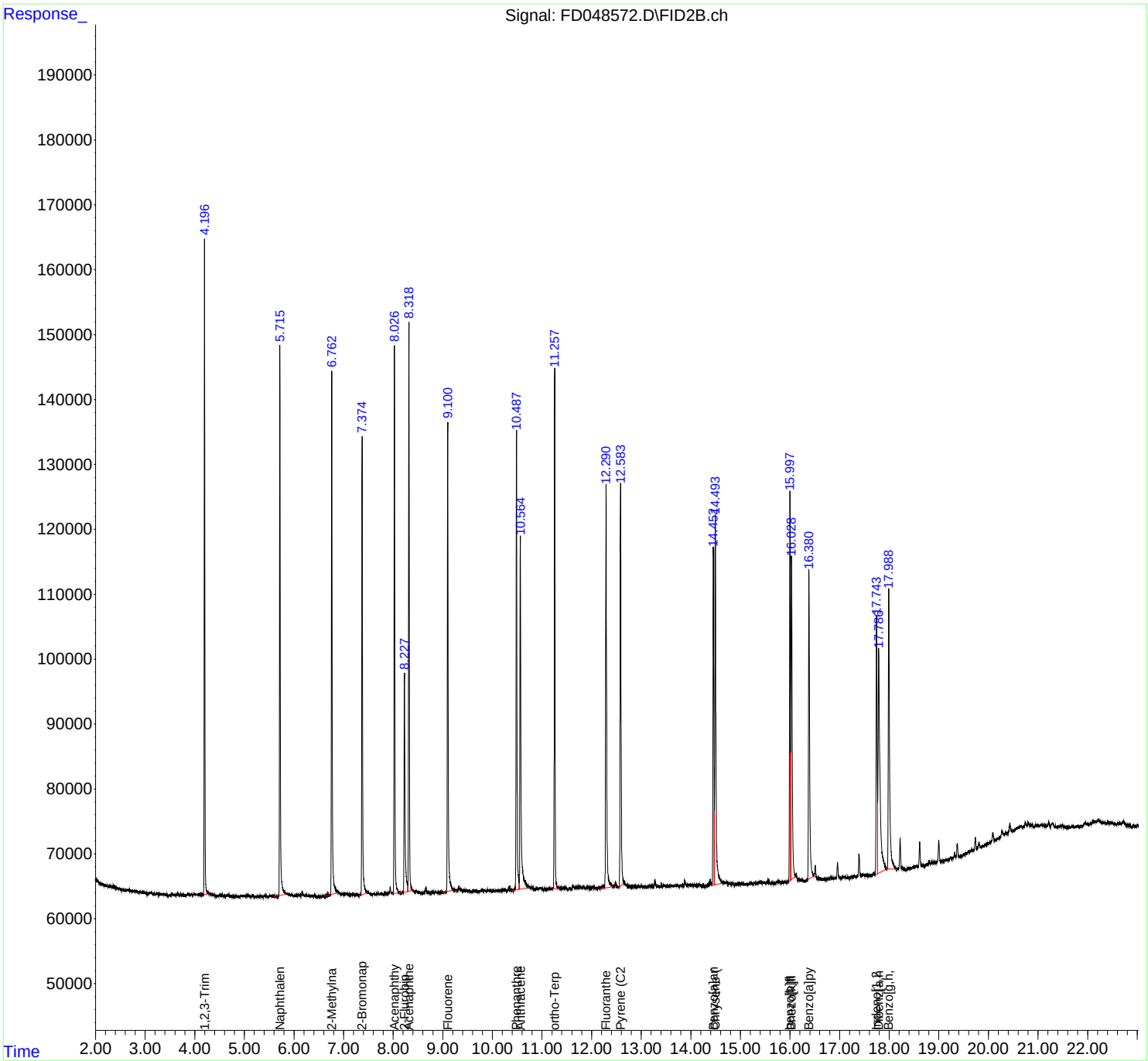
Quantitation Report (QT Reviewed)

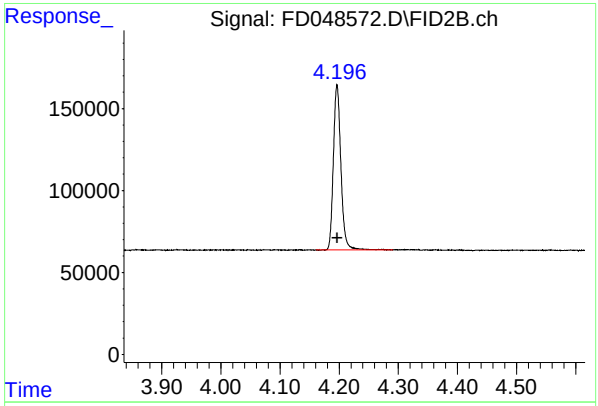
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD102324AR\
Data File : FD048572.D
Signal(s) : FID2B.ch
Acq On : 23 Oct 2024 17:38
Operator : YP/AJ
Sample : 5 PPM AROMATIC HC STD5
Misc :
ALS Vial : 65 Sample Multiplier: 1

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

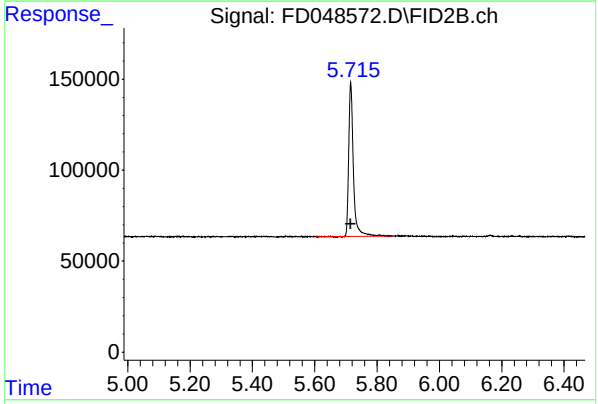




#1 1,2,3-Trimethylbenzene (C10.1)

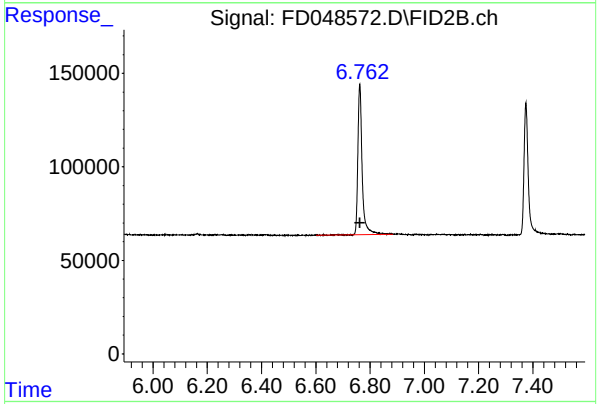
R.T.: 4.197 min
Delta R.T.: 0.000 min
Response: 891941
Conc: 5.13 ug/ml

Instrument :
FID_D
ClientSampleId :
5 PPM AROMATIC HC STD5



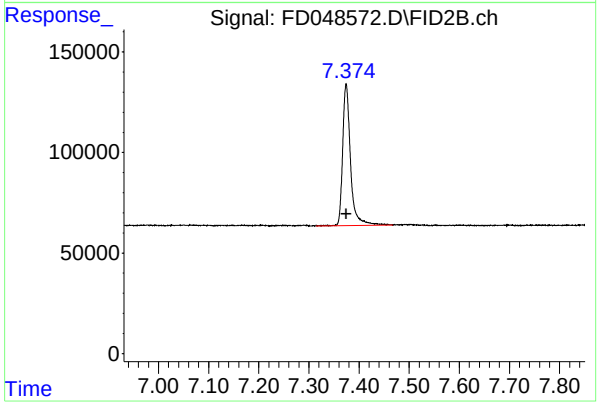
#2 Naphthalene (C11.7)

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



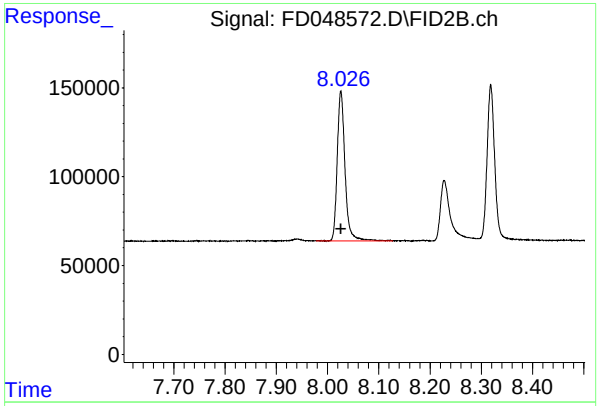
#3 2-Methylnaphthalene (C12.89)

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



#4 2-Bromonaphthalene (SURR)

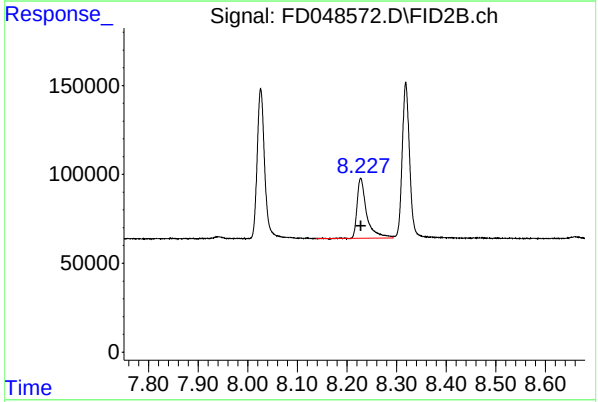
R.T.: 7.375 min
Delta R.T.: 0.000 min
Response: 765966
Conc: 5.05 ug/ml



#5 Acenaphthylene (C15.06)

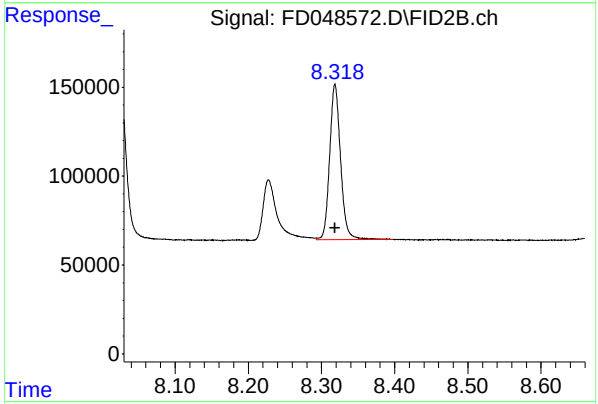
R.T.: 8.026 min
Delta R.T.: 0.000 min
Response: 887785
Conc: 5.06 ug/ml

Instrument :
FID_D
ClientSampleId :
5 PPM AROMATIC HC STD5



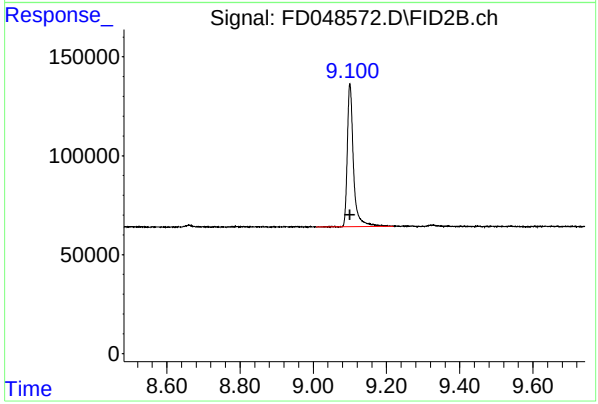
#6 2-Flurobiphenyl (SURR)

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



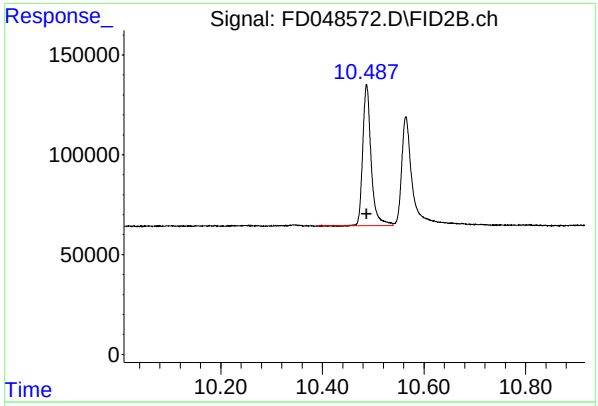
#7 Acenaphthene (C15.5)

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



#8 Flouorene (C16.55)

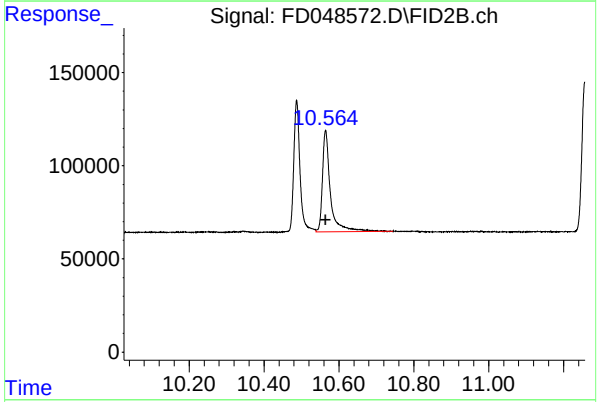
R.T.: 9.101 min
Delta R.T.: 0.000 min
Response: 838419
Conc: 4.96 ug/ml



#9 Phenanthrene (C19.36)

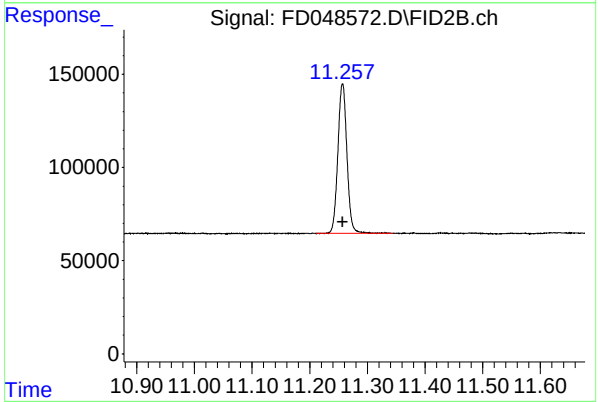
R.T.: 10.487 min
Delta R.T.: 0.000 min
Response: 812730
Conc: 4.92 ug/ml

Instrument :
FID_D
ClientSampleId :
5 PPM AROMATIC HC STD5



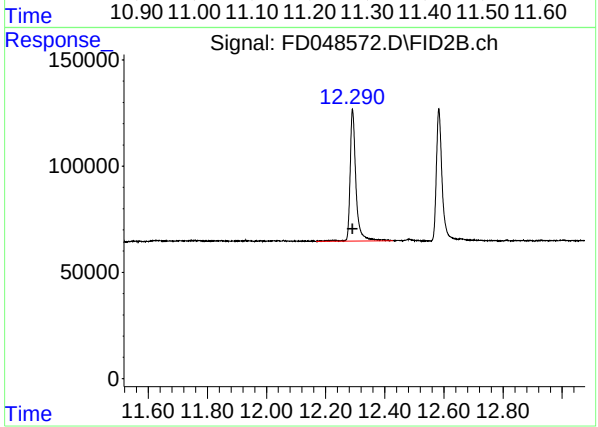
#10 Anthracene (C19.43)

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



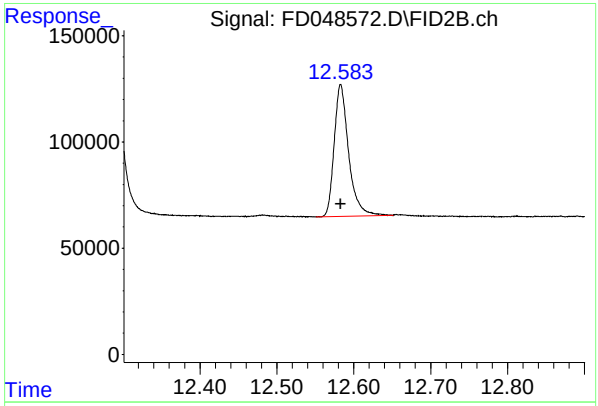
#11 ortho-Terphenyl (SURR)

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



#12 Fluoranthene (C21.85)

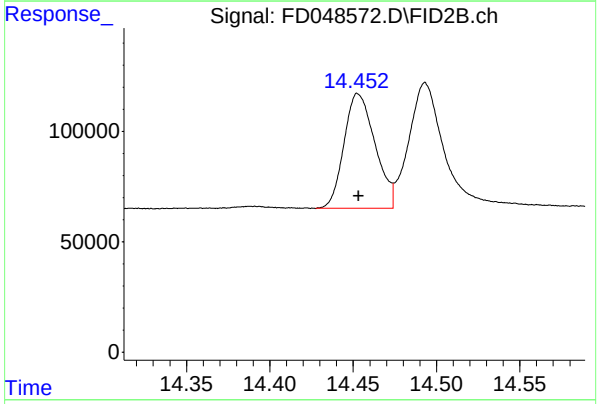
R.T.: 12.291 min
Delta R.T.: 0.000 min
Response: 849157
Conc: 5.16 ug/ml



#13 Pyrene (C20.8)

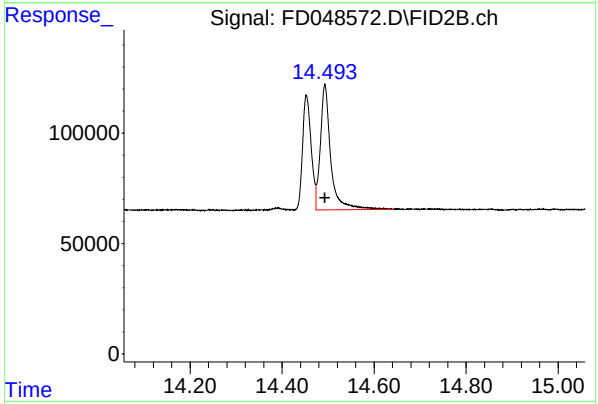
R.T.: 12.583 min
Delta R.T.: 0.000 min
Response: 807675
Conc: 5.01 ug/ml

Instrument :
FID_D
ClientSampleId :
5 PPM AROMATIC HC STD5



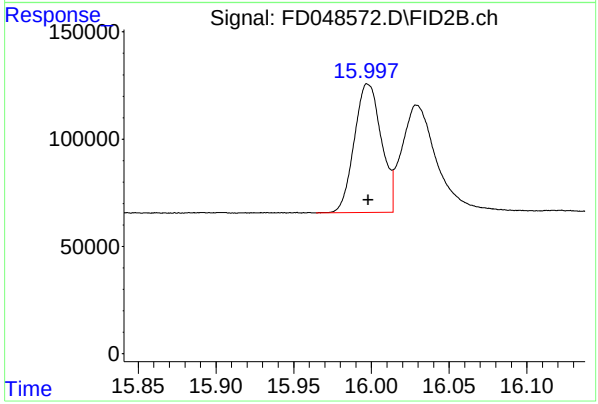
#14 Benzo[a]anthracene (C26.37)

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



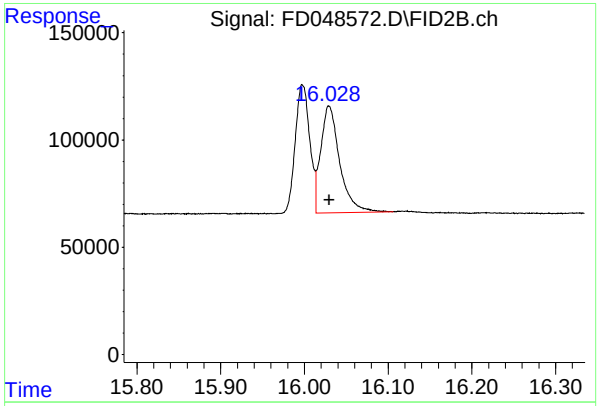
#15 Chrysene (C27.41)

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



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

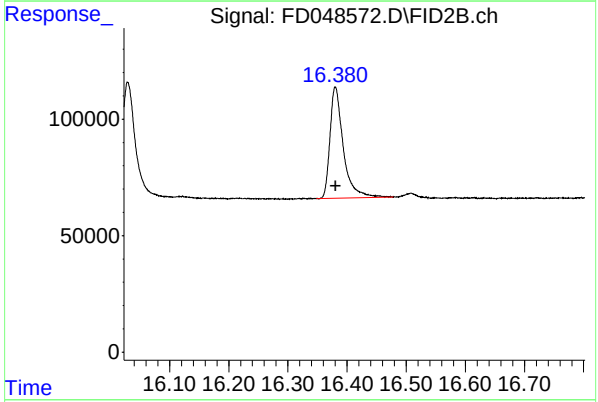
R.T.: 15.998 min
Delta R.T.: 0.000 min
Response: 725025
Conc: 4.77 ug/ml



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

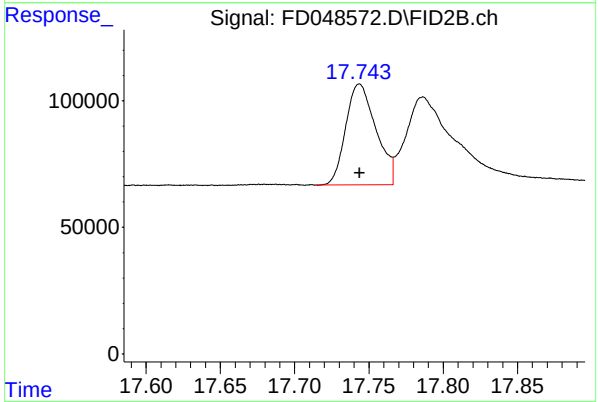
R.T.: 16.030 min
Delta R.T.: 0.000 min
Response: 780831
Conc: 5.20 ug/ml

Instrument :
FID_D
ClientSampleId :
5 PPM AROMATIC HC STD5



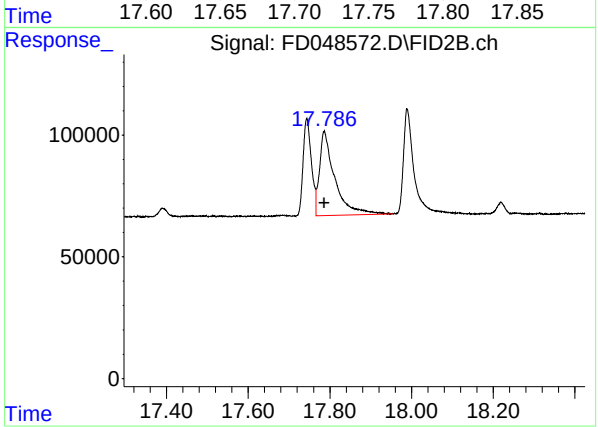
#18 Benzo[a]pyrene (C31.34)

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



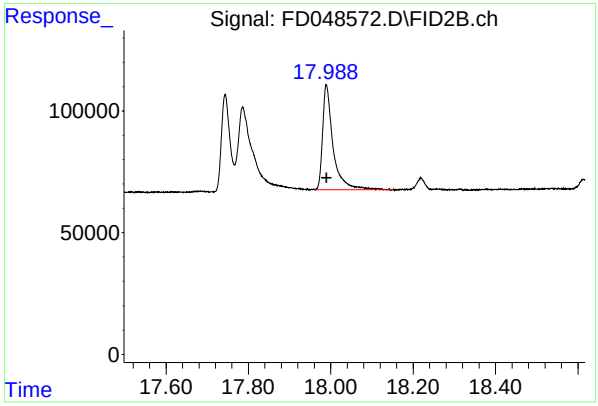
#19 Indeno[1,2,3-cd]pyrene (C35.01)

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.

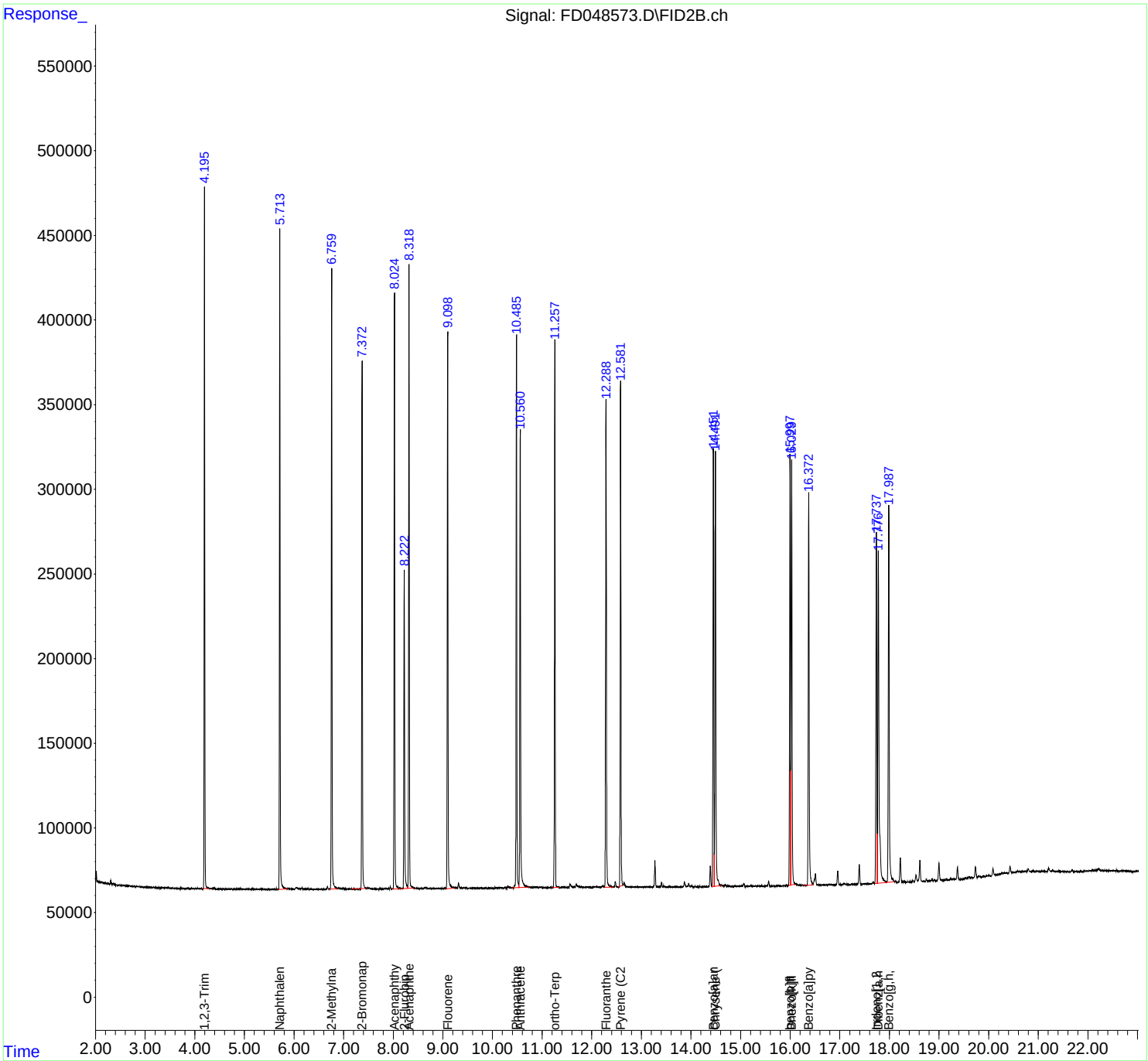
Quantitation Report (QT Reviewed)

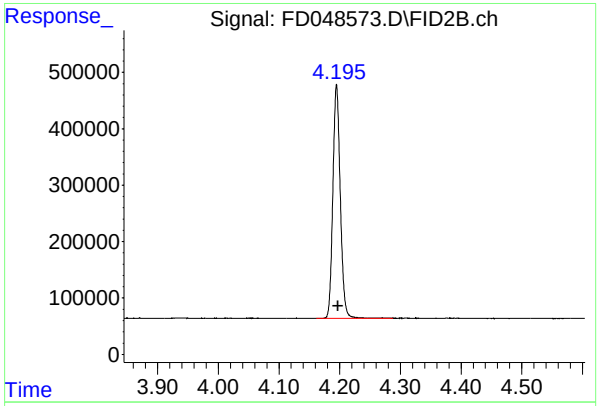
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD102324AR\
Data File : FD048573.D
Signal(s) : FID2B.ch
Acq On : 23 Oct 2024 18:14
Operator : YP/AJ
Sample : 20 PPM AROMATIC HC STD ICV
Misc :
ALS Vial : 66 Sample Multiplier: 1

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

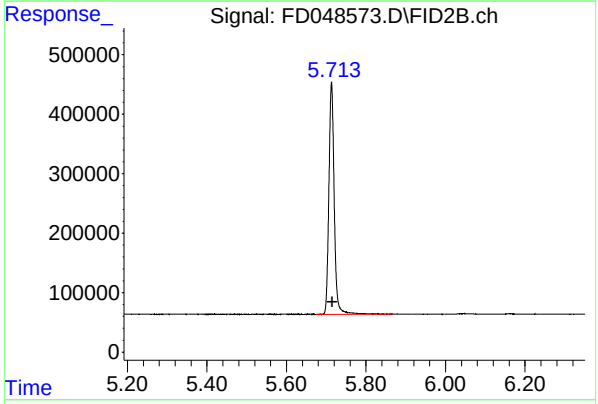




#1 1,2,3-Trimethylbenzene (C10.1)

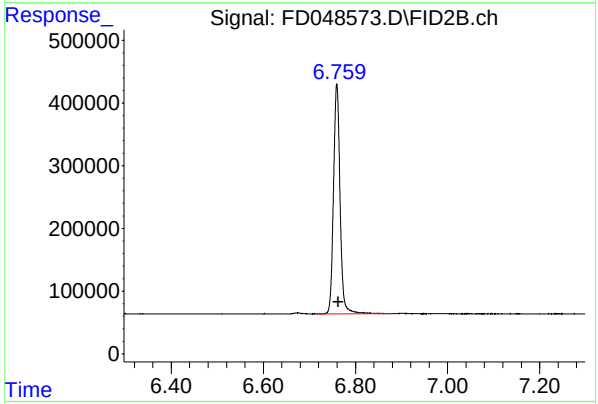
R.T.: 4.195 min
Delta R.T.: -0.002 min
Response: 3511974
Conc: 20.19 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD ICV



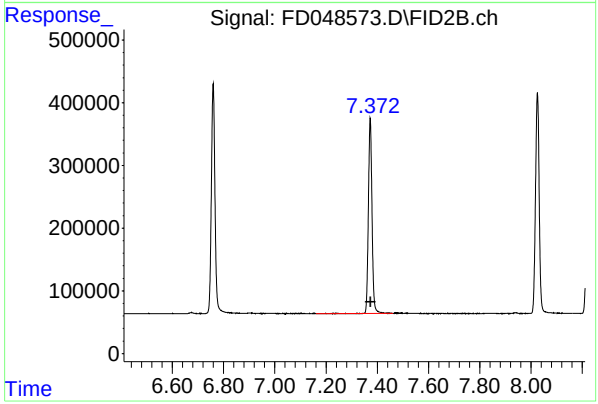
#2 Naphthalene (C11.7)

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



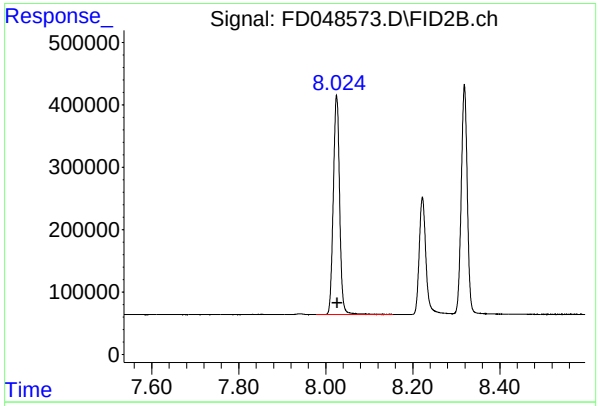
#3 2-Methylnaphthalene (C12.89)

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



#4 2-Bromonaphthalene (SURR)

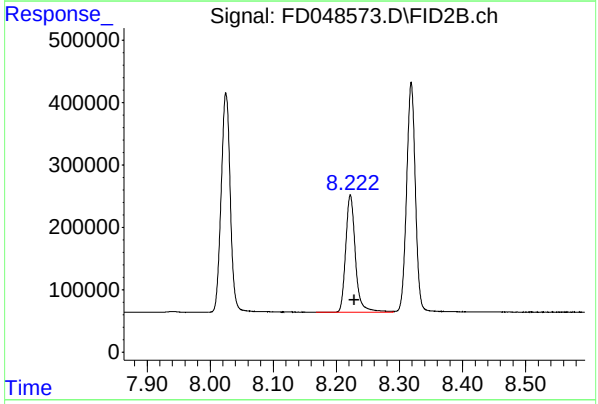
R.T.: 7.372 min
Delta R.T.: -0.002 min
Response: 3035391
Conc: 20.00 ug/ml



#5 Acenaphthylene (C15.06)

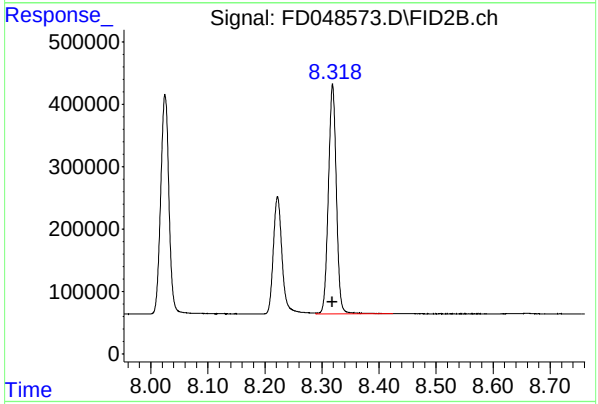
R.T.: 8.025 min
Delta R.T.: -0.001 min
Response: 3549708
Conc: 20.22 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD ICV



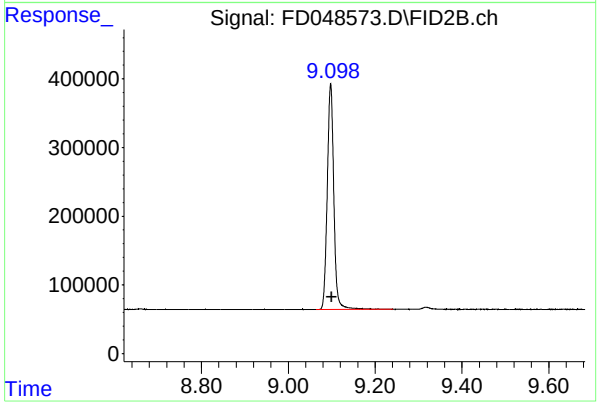
#6 2-Flurobiphenyl (SURR)

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



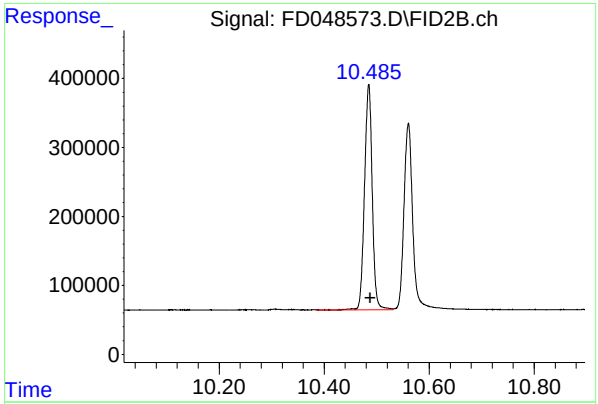
#7 Acenaphthene (C15.5)

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



#8 Flouorene (C16.55)

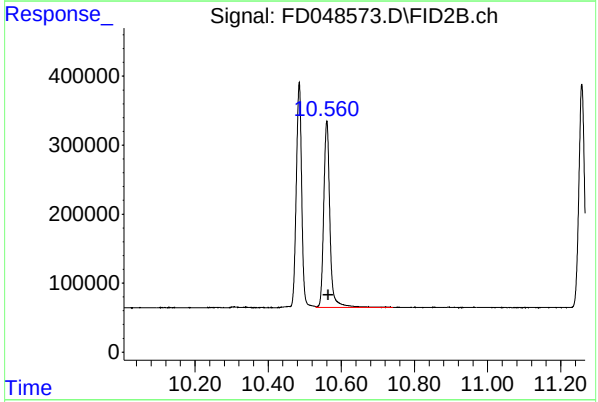
R.T.: 9.098 min
Delta R.T.: -0.003 min
Response: 3449130
Conc: 20.40 ug/ml



#9 Phenanthrene (C19.36)

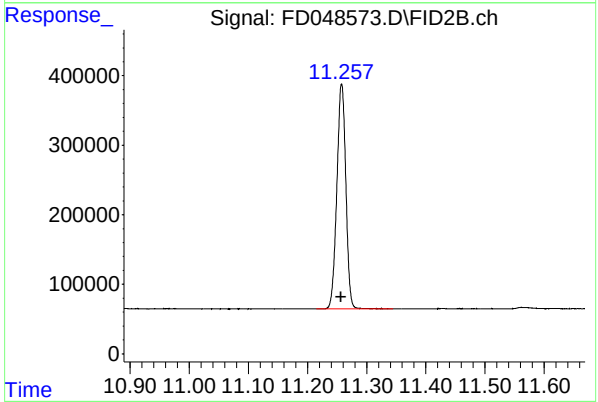
R.T.: 10.485 min
Delta R.T.: -0.003 min
Response: 3337748
Conc: 20.19 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD ICV



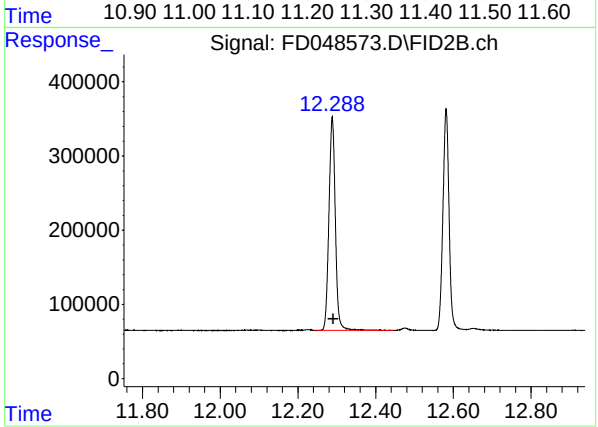
#10 Anthracene (C19.43)

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



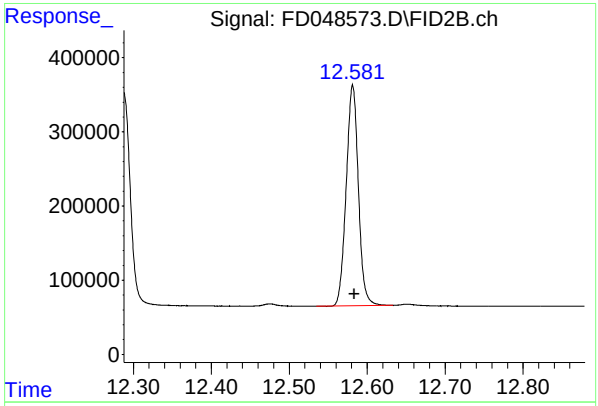
#11 ortho-Terphenyl (SURR)

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



#12 Fluoranthene (C21.85)

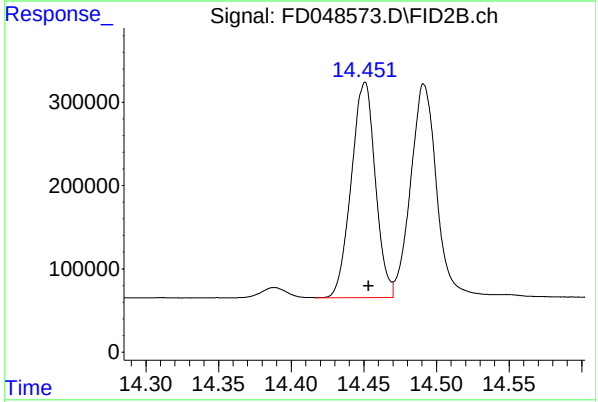
R.T.: 12.288 min
Delta R.T.: -0.003 min
Response: 3304952
Conc: 20.08 ug/ml



#13 Pyrene (C20.8)

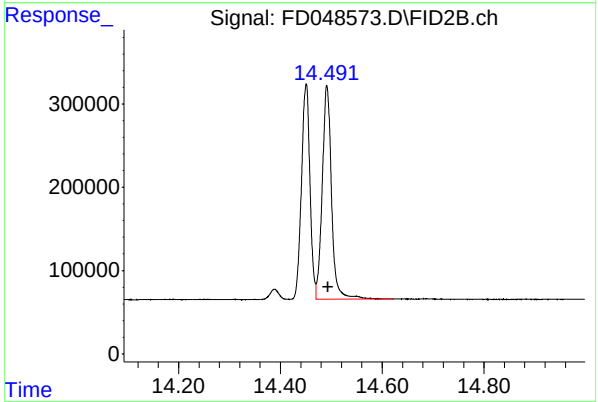
R.T.: 12.581 min
Delta R.T.: -0.002 min
Response: 3231023
Conc: 20.06 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD ICV



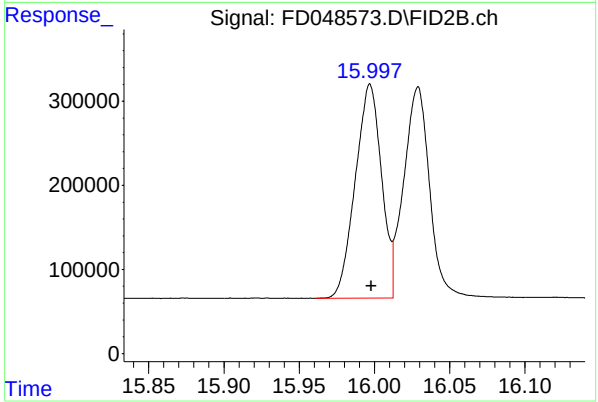
#14 Benzo[a]anthracene (C26.37)

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



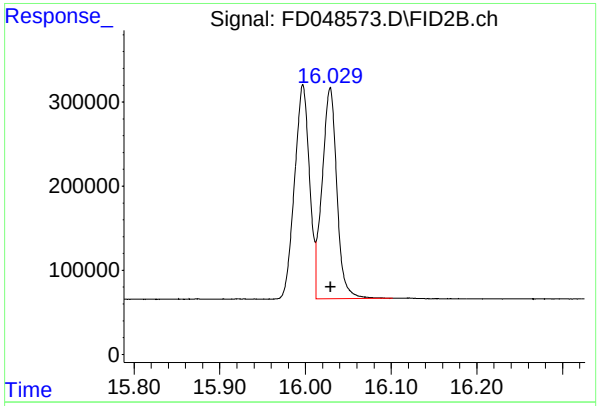
#15 Chrysene (C27.41)

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



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

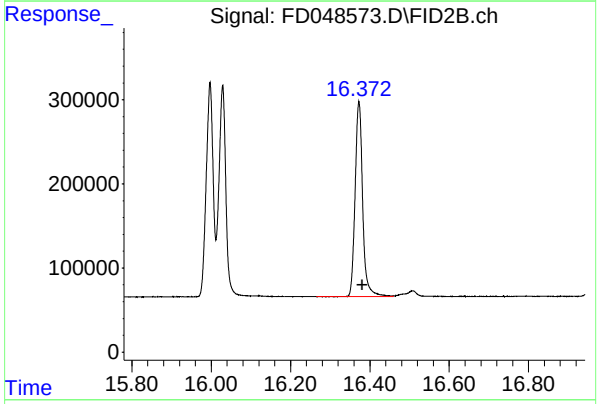
R.T.: 15.997 min
Delta R.T.: 0.000 min
Response: 3076351
Conc: 20.24 ug/ml



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

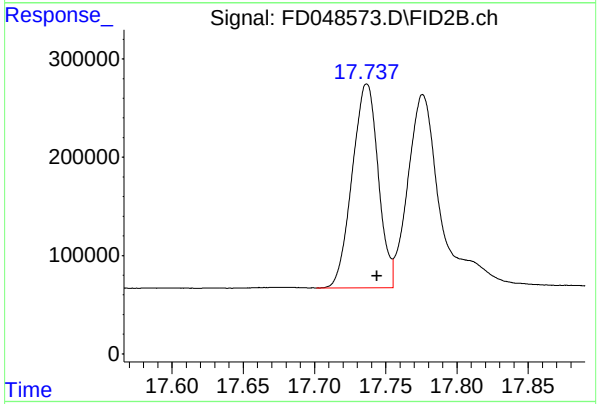
R.T.: 16.029 min
Delta R.T.: 0.000 min
Response: 3007230
Conc: 20.01 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD ICV



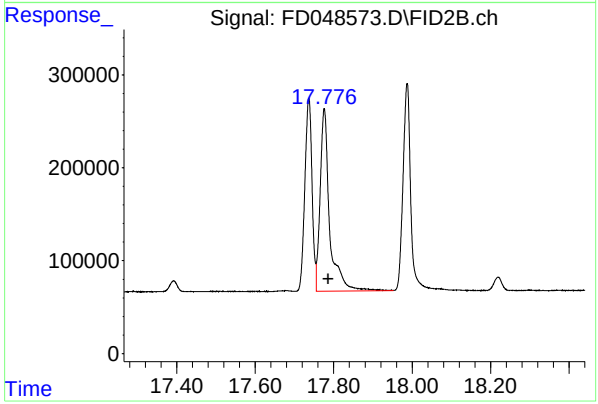
#18 Benzo[a]pyrene (C31.34)

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



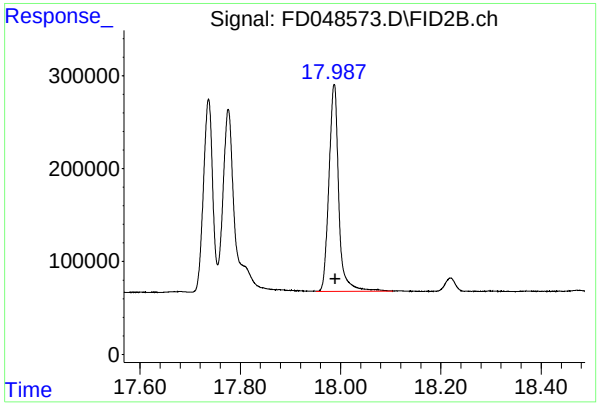
#19 Indeno[1,2,3-cd]pyrene (C35.01)

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

Inital Calibration Report for SequenceID : FF102124AR

AreaCount

Parameter Range	FF014714.D	FF014715.D	FF014716.D	FF014717.D	FF014718.D	
Aromatic C10-C12	28789924.000	15115035.000	6337092.000	3244642.000	1646729.000	
Aromatic C12-C16	44156071.000	23182440.000	9730614.000	4962356.000	2531591.000	
Aromatic C16-C21	57080822.000	30091772.000	12612739.000	6471263.000	3286587.000	
Aromatic C21-C36	123007784.000	64586877.000	27030069.000	13831409.000	7117725.000	
Aromatic EPH	253034601.000	132976124.000	55710514.000	28509670.000	14582632.000	

AVG Response Factor

Parameter Range	AVG RF	% RSD				
Aromatic C10-C12	156086.454	5.442				
Aromatic C12-C16	159619.6006664	5.463				
Aromatic C16-C21	155386.2155	5.677				
Aromatic C21-C36	148444.5495552	5.713				
Aromatic EPH	152698.7509994	5.625				

Concentration

Parameter Range	FF014714.D	FF014715.D	FF014716.D	FF014717.D	FF014718.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	FF014714.D	FF014715.D	FF014716.D	FF014717.D	FF014718.D	
Aromatic C10-C12	143949.620000	151150.350000	158427.300000	162232.100000	164672.900000	
Aromatic C12-C16	147186.903333	154549.600000	162176.900000	165411.866666	168772.733333	
Aromatic C16-C21	142702.055000	150458.860000	157659.237500	161781.575000	164329.350000	
Aromatic C21-C36	136675.315555	143526.393333	150167.050000	153682.322222	158171.666666	
Aromatic EPH	140574.778333	147751.248888	154751.427777	158387.055555	162029.244444	

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

Lab Sample ID:	100 PPM AROMATIC HC	Acq On:	21 Oct 2024 19:40
Client Sample ID:		Operator:	YP\AJ
Data file:	FF014714.D	Misc:	
Instrument:	FID_F	ALS Vial:	21
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aromatic C10-C12	4.497	6.360	28789924.000	200.000	ug/ml
Aromatic C12-C16	6.361	9.050	44156071.000	300.000	ug/ml
Aromatic C16-C21	9.051	13.357	57080822.000	400.000	ug/ml
Aromatic C21-C36	13.358	18.791	123007784.000	900.000	ug/ml
Aromatic EPH	4.497	18.791	253034601.000	1800.000	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF102124AR\
Data File : FF014714.D
Signal(s) : FID2B.ch
Acq On : 21 Oct 2024 19:40
Operator : YP\AJ
Sample : 100 PPM AROMATIC HC STD1
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
100 PPM AROMATIC HC STD1

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 10/22/2024
Supervised By :Ankita Jodhani 10/22/2024

Integration File: autoint1.e
Quant Time: Oct 22 04:08:55 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 102124.M
Quant Title : GC Extractables
QLast Update : Tue Oct 22 04:07:29 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...	7.984	12685568	89.862 ug/ml
Spiked Amount	50.000		Recovery =	179.72%
6) S	2-Flurobiphenyl (SURR)	8.857	8681224	90.742 ug/ml
Spiked Amount	50.000 Range	0 - 131	Recovery =	181.48%#
11) S	ortho-Terphenyl (SURR)	11.920	14564828	89.931 ug/ml
Spiked Amount	50.000		Recovery =	179.86%
	Target Compounds			
1) T	1,2,3-Trimethylbenzen...	4.600	14027819	90.864 ug/ml
2) T	Naphthalene (C11.7)	6.265	14762105	90.859 ug/ml
3) T	2-Methylnaphthalene (...	7.359	14917264	90.597 ug/ml
5) T	Acenaphthylene (C15.06)	8.659	14643320	90.901 ug/ml
7) T	Acenaphthene (C15.5)	8.961	14595487	90.777 ug/ml
8) T	Flouorene (C16.55)	9.748	14501218	90.677 ug/ml
9) T	Phenanthrene (C19.36)	11.152	14480416	90.605 ug/ml
10) T	Anthracene (C19.43)	11.229	13790271	90.341 ug/ml
12) T	Fluoranthene (C21.85)	12.972	14408878	90.224 ug/ml
13) T	Pyrene (C20.8)	13.272	14308917	90.420 ug/ml
14) T	Benzo[a]anthracene (C...	15.148	13979366	90.721 ug/ml
15) T	Chrysene (C27.41)	15.198	14104588	90.289 ug/ml
16) T	benzo[b]fluoranthene ...	16.706	14247840	92.074 ug/ml
17) T	Bnezo[k]fluoranthene ...	16.747	13351009	91.598 ug/mlm
18) T	Benzo[a]pyrene (C31.34)	17.091	13733570	90.762 ug/ml
19) T	Indeno[1,2,3-cd]pyren...	18.459	13173471	95.486 ug/ml
20) T	Dibenz[a,h]anthracene...	18.504	12746788	86.892 ug/mlm
21) T	Benzo[g,h,i]perylene ...	18.723	13262274	91.451 ug/ml

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

Quantitation Report (QT Reviewed)

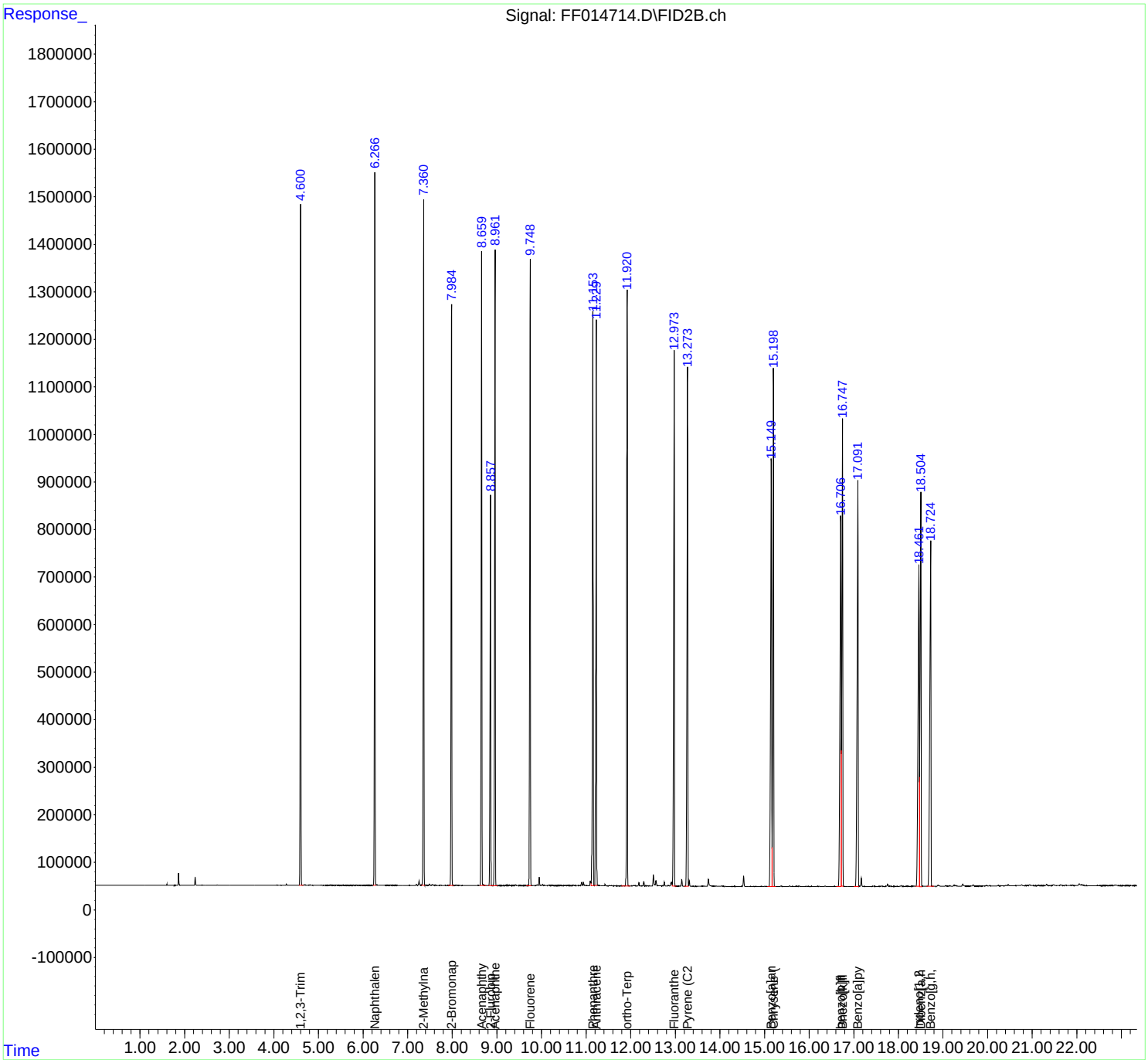
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF102124AR\
Data File : FF014714.D
Signal(s) : FID2B.ch
Acq On : 21 Oct 2024 19:40
Operator : YP\AJ
Sample : 100 PPM AROMATIC HC STD1
Misc :
ALS Vial : 21 Sample Multiplier: 1

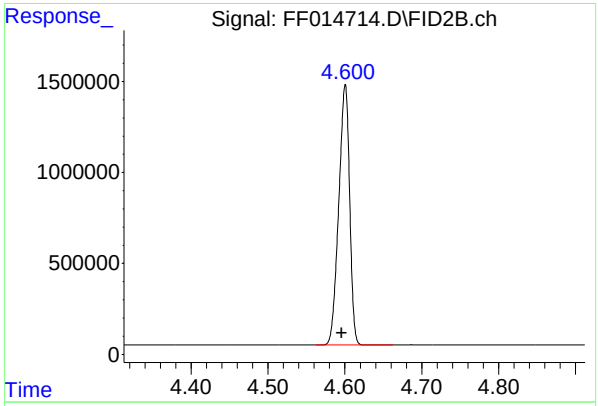
Integration File: autoint1.e
Quant Time: Oct 22 04:08:55 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 102124.M
Quant Title : GC Extractables
QLast Update : Tue Oct 22 04:07:29 2024
Response via : Initial Calibration
Integrator: ChemStation

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

Instrument :
FID_F
ClientSampleId :
100 PPM AROMATIC HC STD1

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 10/22/2024
Supervised By :Ankita Jodhani 10/22/2024





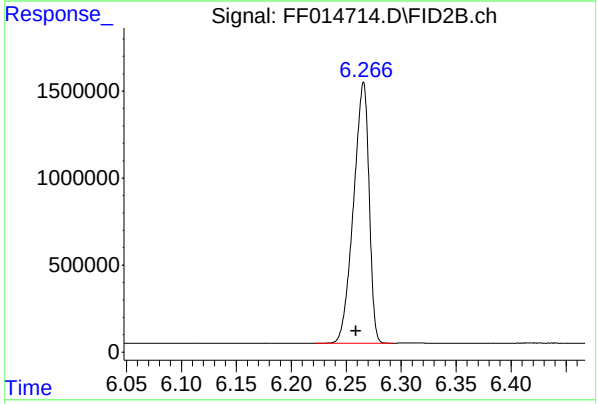
#1 1,2,3-Trimethylbenzene (C10.1)

R.T.: 4.600 min
Delta R.T.: 0.004 min
Response: 14027819
Conc: 90.86 ug/ml

Instrument :
FID_F
ClientSampleId :
100 PPM AROMATIC HC STD1

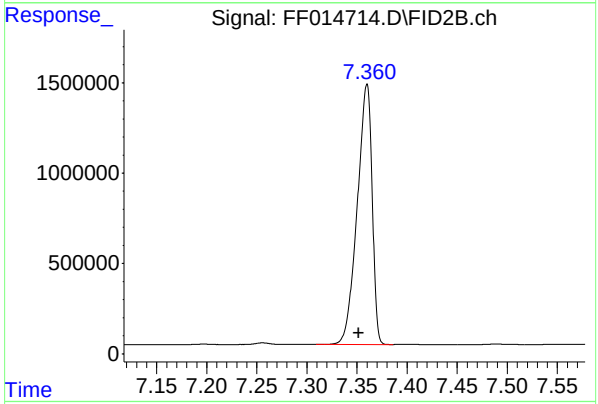
Manual Integrations APPROVED

Reviewed By :Yogesh Patel 10/22/2024
Supervised By :Ankita Jodhani 10/22/2024



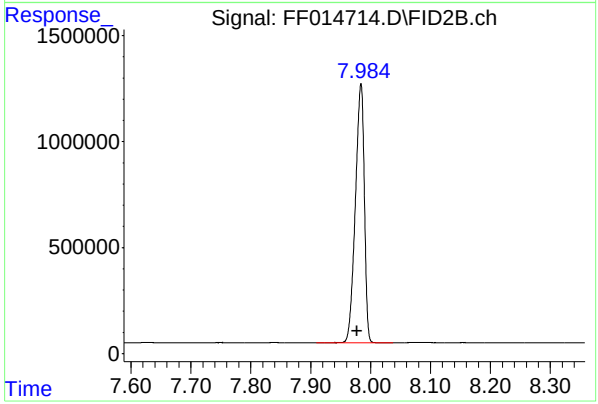
#2 Naphthalene (C11.7)

R.T.: 6.265 min
Delta R.T.: 0.006 min
Response: 14762105
Conc: 90.86 ug/ml



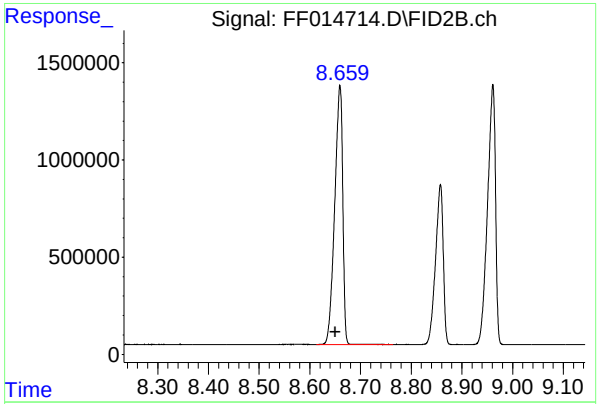
#3 2-Methylnaphthalene (C12.89)

R.T.: 7.359 min
Delta R.T.: 0.008 min
Response: 14917264
Conc: 90.60 ug/ml



#4 2-Bromonaphthalene (SURR)

R.T.: 7.984 min
Delta R.T.: 0.006 min
Response: 12685568
Conc: 89.86 ug/ml



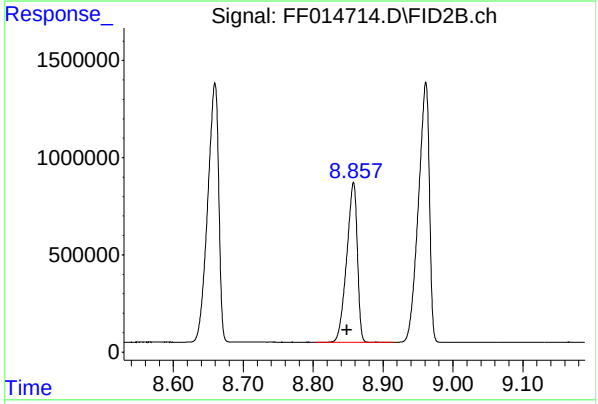
#5 Acenaphthylene (C15.06)

R.T.: 8.659 min
Delta R.T.: 0.009 min
Response: 14643320
Conc: 90.90 ug/ml

Instrument :
FID_F
ClientSampleId :
100 PPM AROMATIC HC STD1

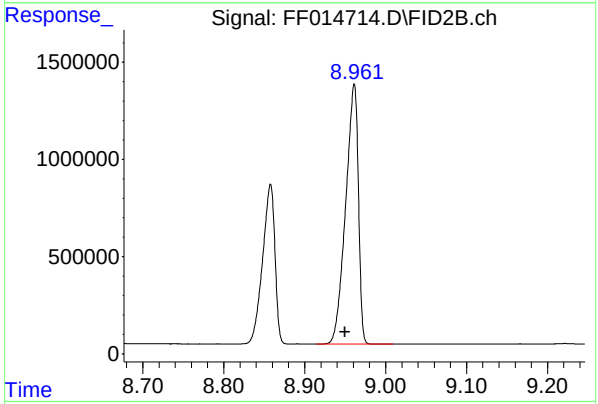
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/22/2024
Supervised By :Ankita Jodhani 10/22/2024



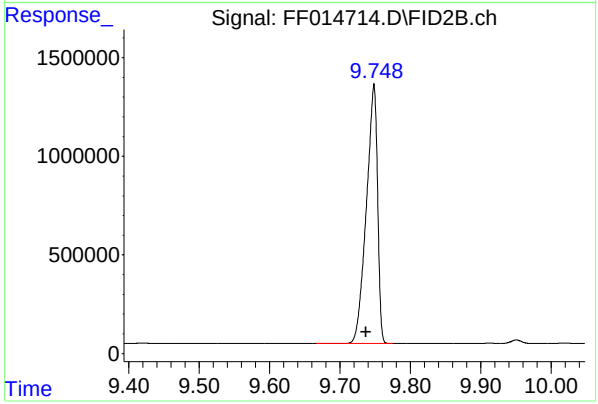
#6 2-Flurobiphenyl (SURR)

R.T.: 8.857 min
Delta R.T.: 0.008 min
Response: 8681224
Conc: 90.74 ug/ml



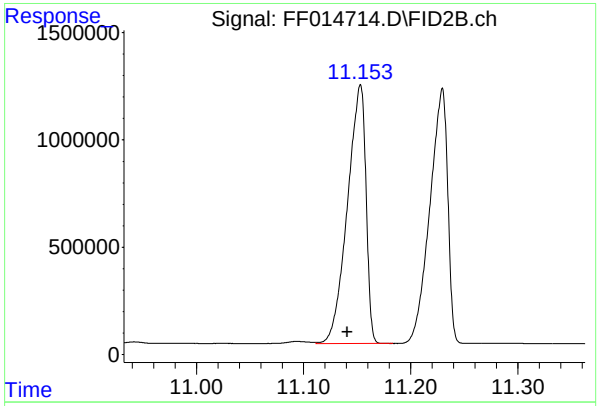
#7 Acenaphthene (C15.5)

R.T.: 8.961 min
Delta R.T.: 0.011 min
Response: 14595487
Conc: 90.78 ug/ml



#8 Flouorene (C16.55)

R.T.: 9.748 min
Delta R.T.: 0.011 min
Response: 14501218
Conc: 90.68 ug/ml



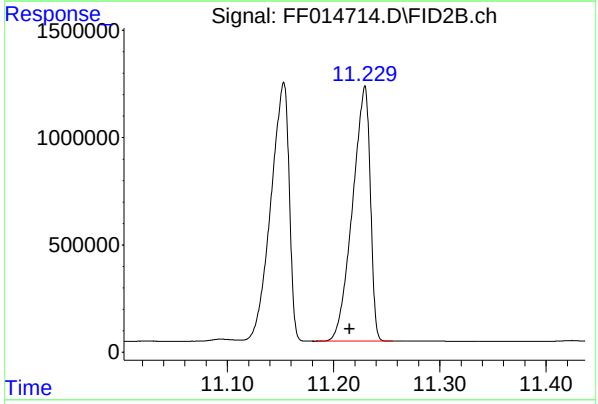
#9 Phenanthrene (C19.36)

R.T.: 11.152 min
Delta R.T.: 0.011 min
Response: 14480416
Conc: 90.61 ug/ml

Instrument :
FID_F
ClientSampleId :
100 PPM AROMATIC HC STD1

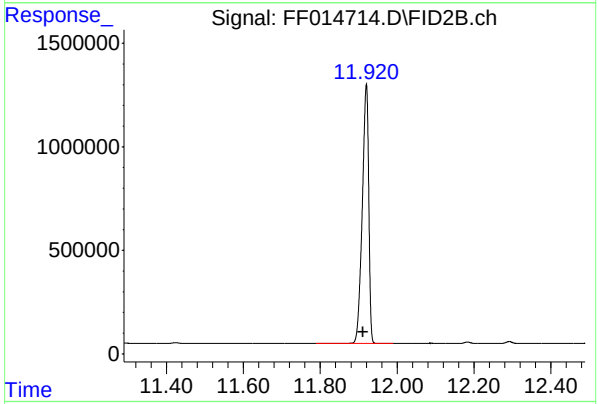
Manual Integrations APPROVED

Reviewed By :Yogesh Patel 10/22/2024
Supervised By :Ankita Jodhani 10/22/2024



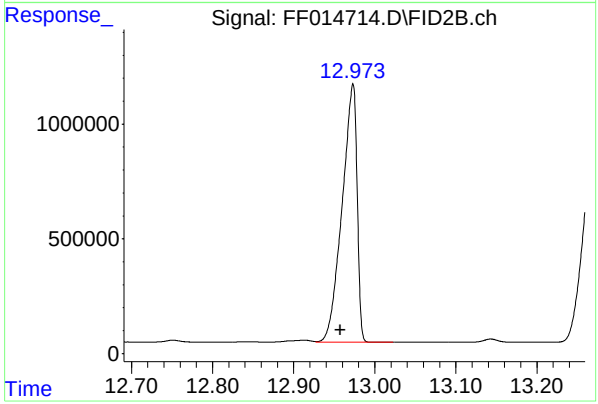
#10 Anthracene (C19.43)

R.T.: 11.229 min
Delta R.T.: 0.014 min
Response: 13790271
Conc: 90.34 ug/ml



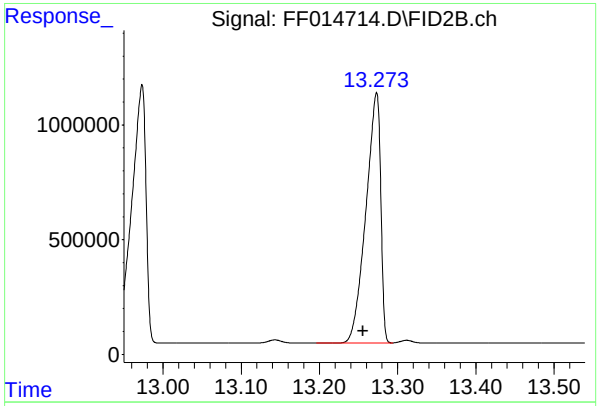
#11 ortho-Terphenyl (SURR)

R.T.: 11.920 min
Delta R.T.: 0.008 min
Response: 14564828
Conc: 89.93 ug/ml



#12 Fluoranthene (C21.85)

R.T.: 12.972 min
Delta R.T.: 0.014 min
Response: 14408878
Conc: 90.22 ug/ml



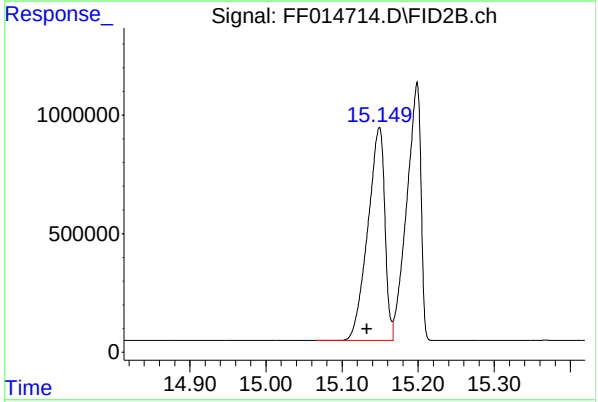
#13 Pyrene (C20.8)

R.T.: 13.272 min
Delta R.T.: 0.016 min
Response: 14308917
Conc: 90.42 ug/ml

Instrument :
FID_F
ClientSampleId :
100 PPM AROMATIC HC STD1

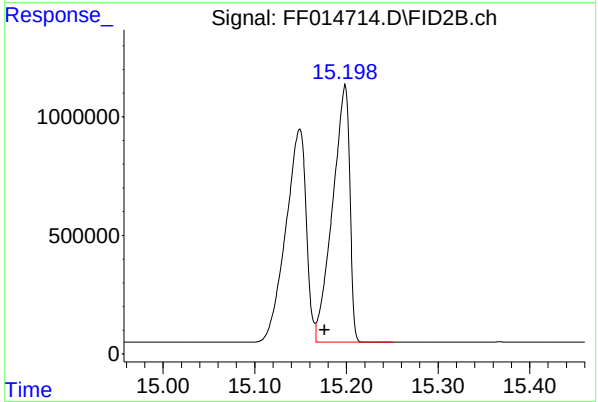
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/22/2024
Supervised By :Ankita Jodhani 10/22/2024



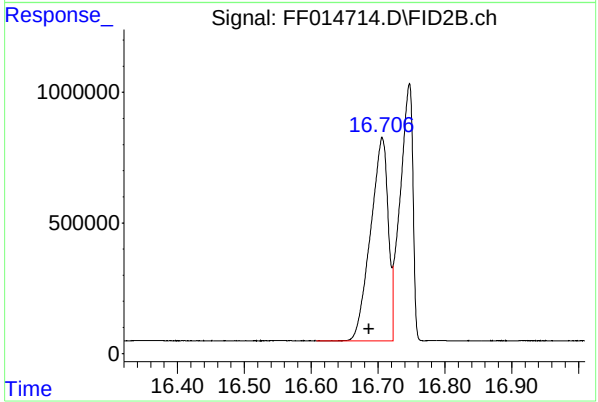
#14 Benzo[a]anthracene (C26.37)

R.T.: 15.148 min
Delta R.T.: 0.016 min
Response: 13979366
Conc: 90.72 ug/ml



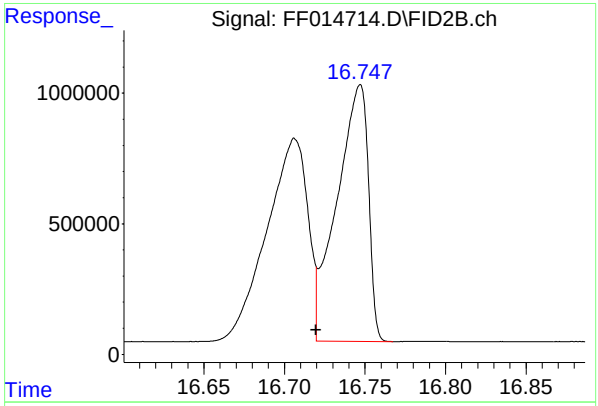
#15 Chrysene (C27.41)

R.T.: 15.198 min
Delta R.T.: 0.021 min
Response: 14104588
Conc: 90.29 ug/ml



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

R.T.: 16.706 min
Delta R.T.: 0.019 min
Response: 14247840
Conc: 92.07 ug/ml



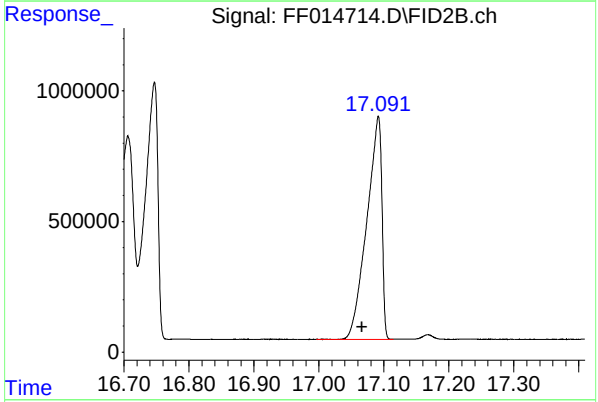
#17 Bnezo[k]fluoranthene (C30.14)

R.T.: 16.747 min
Delta R.T.: 0.027 min
Response: 13351009
Conc: 91.60 ug/ml

Instrument :
FID_F
ClientSampleId :
100 PPM AROMATIC HC STD1

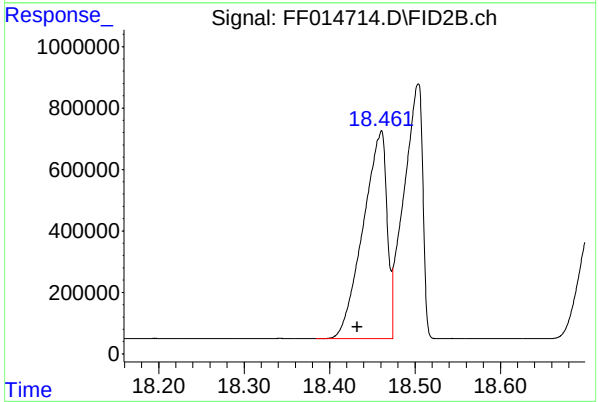
Manual Integrations APPROVED

Reviewed By :Yogesh Patel 10/22/2024
Supervised By :Ankita Jodhani 10/22/2024



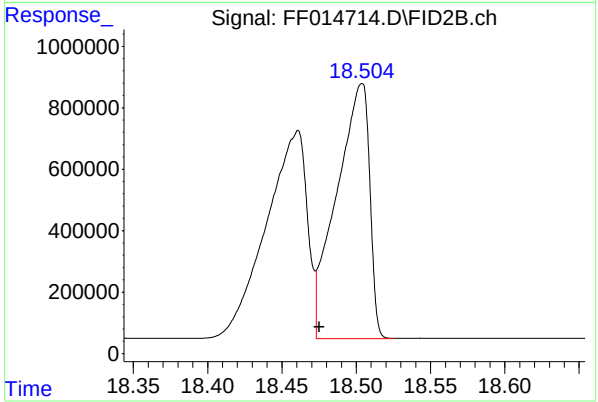
#18 Benzo[a]pyrene (C31.34)

R.T.: 17.091 min
Delta R.T.: 0.025 min
Response: 13733570
Conc: 90.76 ug/ml



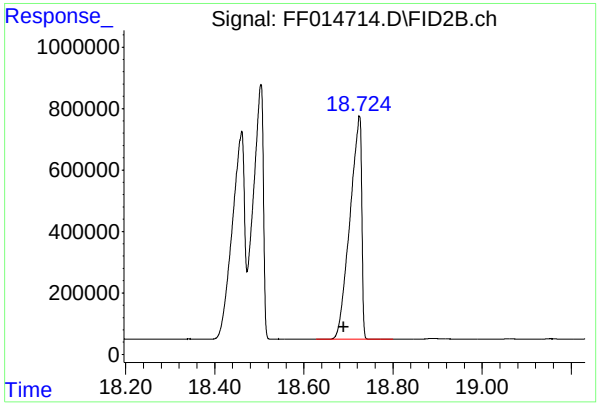
#19 Indeno[1,2,3-cd]pyrene (C35.01)

R.T.: 18.459 min
Delta R.T.: 0.027 min
Response: 13173471
Conc: 95.49 ug/ml



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

R.T.: 18.504 min
Delta R.T.: 0.029 min
Response: 12746788
Conc: 86.89 ug/ml m



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

R.T.: 18.723 min
Delta R.T.: 0.034 mi
Response: 13262274
Conc: 91.45 ug/m

Instrument :
FID_F
ClientSampleId :
100 PPM AROMATIC HC STD1

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/22/2024
Supervised By :Ankita Jodhani 10/22/2024

Instrument :
FID_F
LabSampleId :
100 PPM AROMATIC HC STD1

rteres

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 10/22/2024
Supervised By :Ankita Jodhani 10/22/2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF10212
Data File : FF014714.D
Signal(s) : FID2B.ch
Acq On : 21 Oct 2024 19:40
Sample : 100 PPM AROMATIC HC STD1
Misc :
ALS Vial : 21 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 102124.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	4.600	4.562	4.662	BV	1439591	14027819	94.04%	4.862%
2	6.265	6.222	6.292	BV	1508927	14762105	98.96%	5.116%
3	7.359	7.309	7.386	BV	1436323	14917264	100.00%	5.170%
4	7.984	7.909	8.037	BB	1228521	12685568	85.04%	4.397%
5	8.659	8.612	8.764	BB	1336126	14643320	98.16%	5.075%
6	8.857	8.804	8.914	BV	823777	8681224	58.20%	3.009%
7	8.961	8.914	9.009	PB	1341172	14595487	97.84%	5.059%
8	9.748	9.666	9.775	BV	1303746	14501218	97.21%	5.026%
9	11.152	11.112	11.183	VV	1206476	14480416	97.07%	5.019%
10	11.229	11.183	11.256	PV	1188441	13790271	92.45%	4.780%
11	11.920	11.789	11.989	BB	1248127	14564828	97.64%	5.048%
12	12.972	12.928	13.022	VB	1123143	14408878	96.59%	4.994%
13	13.272	13.196	13.294	BV	1088710	14308917	95.92%	4.959%
14	15.148	15.066	15.167	BV	901489	13979366	93.71%	4.845%
15	15.198	15.167	15.251	VB	1076788	14104588	94.55%	4.888%
16	16.706	16.607	16.722	BV	779091	14247840	95.51%	4.938%
17	16.746	16.722	16.771	VV	977723	12988329	87.07%	4.502%
18	17.091	16.996	17.114	BV	852269	13733570	92.06%	4.760%
19	18.459	18.384	18.474	BV	666252	13173471	88.31%	4.566%
20	18.503	18.474	18.529	VV	827105	12672676	84.95%	4.392%
21	18.723	18.627	18.800	BBA	729416	13262274	88.91%	4.597%

Sum of corrected areas: 288529429

Aromatic EPH 102124.M Tue Oct 22 04:21:09 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:	21 Oct 2024 20:09
Client Sample ID:		Operator:	YP\AJ
Data file:	FF014715.D	Misc:	
Instrument:	FID_F	ALS Vial:	22
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aromatic C10-C12	4.497	6.360	15115035.000	100.000	ug/ml
Aromatic C12-C16	6.361	9.050	23182440.000	150.000	ug/ml
Aromatic C16-C21	9.051	13.357	30091772.000	200.000	ug/ml
Aromatic C21-C36	13.358	18.791	64586877.000	450.000	ug/ml
Aromatic EPH	4.497	18.791	132976124.000	900.000	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF102124AR\
Data File : FF014715.D
Signal(s) : FID2B.ch
Acq On : 21 Oct 2024 20:09
Operator : YP\AJ
Sample : 50 PPM AROMATIC HC STD2
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
50 PPM AROMATIC HC STD2

Integration File: autoint1.e
Quant Time: Oct 22 04:10:09 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 102124.M
Quant Title : GC Extractables
QLast Update : Tue Oct 22 04:07:29 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...	7.980	6689236	47.385 ug/ml
Spiked Amount	50.000		Recovery =	94.77%
6) S	2-Flurobiphenyl (SURR)	8.852	4571031	47.779 ug/ml
Spiked Amount	50.000 Range	0 - 131	Recovery =	95.56%
11) S	ortho-Terphenyl (SURR)	11.916	7694214	47.508 ug/ml
Spiked Amount	50.000		Recovery =	95.02%
	Target Compounds			
1) T	1,2,3-Trimethylbenzen...	4.597	7362780	47.692 ug/ml
2) T	Naphthalene (C11.7)	6.261	7752255	47.714 ug/ml
3) T	2-Methylnaphthalene (...	7.354	7839943	47.614 ug/ml
5) T	Acenaphthylene (C15.06)	8.654	7664632	47.580 ug/ml
7) T	Acenaphthene (C15.5)	8.954	7677865	47.753 ug/ml
8) T	Flouorene (C16.55)	9.741	7635772	47.747 ug/ml
9) T	Phenanthrene (C19.36)	11.146	7623448	47.701 ug/ml
10) T	Anthracene (C19.43)	11.221	7279102	47.686 ug/ml
12) T	Fluoranthene (C21.85)	12.964	7606946	47.632 ug/ml
13) T	Pyrene (C20.8)	13.263	7553450	47.731 ug/ml
14) T	Benzo[a]anthracene (C...	15.140	7373650	47.852 ug/ml
15) T	Chrysene (C27.41)	15.186	7451906	47.703 ug/ml
16) T	benzo[b]fluoranthene ...	16.696	7426647	47.994 ug/ml
17) T	Bnezo[k]fluoranthene ...	16.732	6935597	47.583 ug/ml
18) T	Benzo[a]pyrene (C31.34)	17.078	7230851	47.787 ug/ml
19) T	Indeno[1,2,3-cd]pyren...	18.446	6684543	48.452 ug/ml
20) T	Dibenz[a,h]anthracene...	18.487	6921838	47.185 ug/ml
21) T	Benzo[g,h,i]perylene ...	18.706	6954899	47.958 ug/ml

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

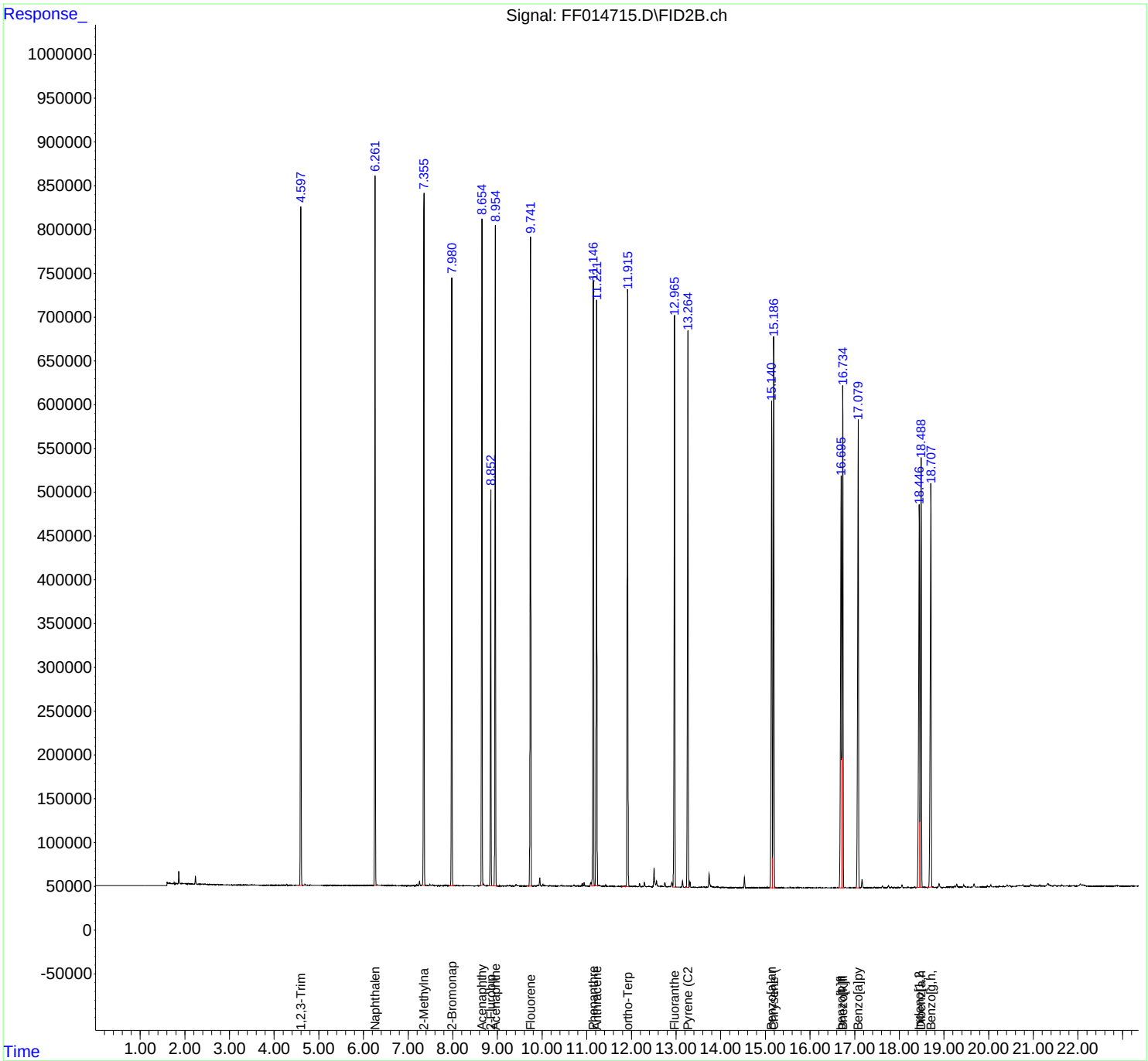
Quantitation Report (QT Reviewed)

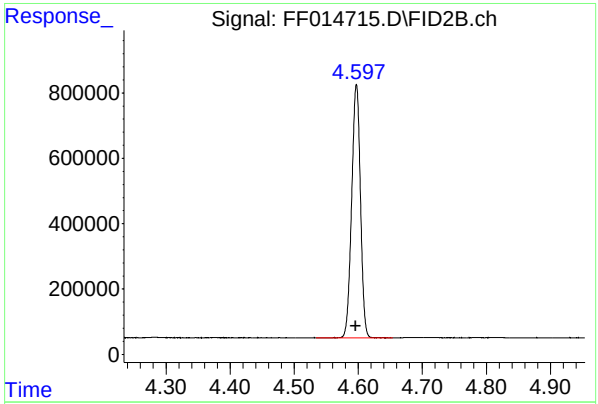
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF102124AR\
Data File : FF014715.D
Signal(s) : FID2B.ch
Acq On : 21 Oct 2024 20:09
Operator : YP\AJ
Sample : 50 PPM AROMATIC HC STD2
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
50 PPM AROMATIC HC STD2

Integration File: autoint1.e
Quant Time: Oct 22 04:10:09 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 102124.M
Quant Title : GC Extractables
QLast Update : Tue Oct 22 04:07:29 2024
Response via : Initial Calibration
Integrator: ChemStation

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

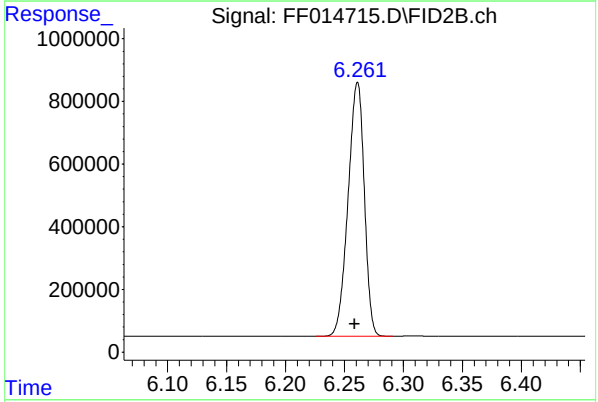




#1 1,2,3-Trimethylbenzene (C10.1)

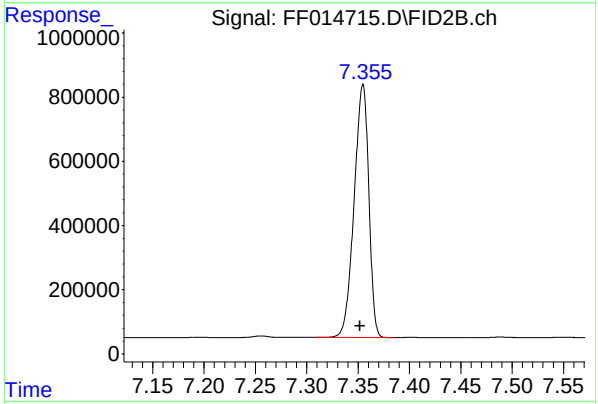
R.T.: 4.597 min
Delta R.T.: 0.001 min
Response: 7362780
Conc: 47.69 ug/ml

Instrument :
FID_F
ClientSampleId :
50 PPM AROMATIC HC STD2



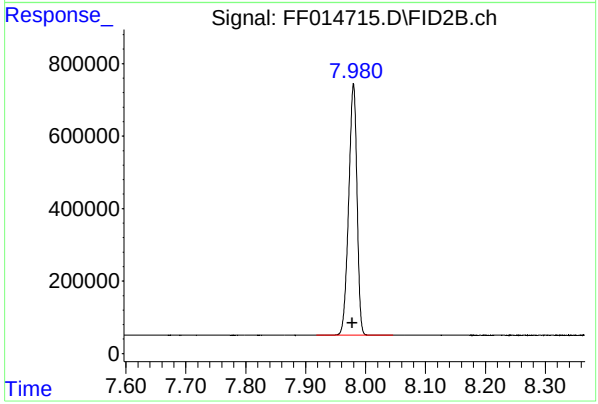
#2 Naphthalene (C11.7)

R.T.: 6.261 min
Delta R.T.: 0.002 min
Response: 7752255
Conc: 47.71 ug/ml



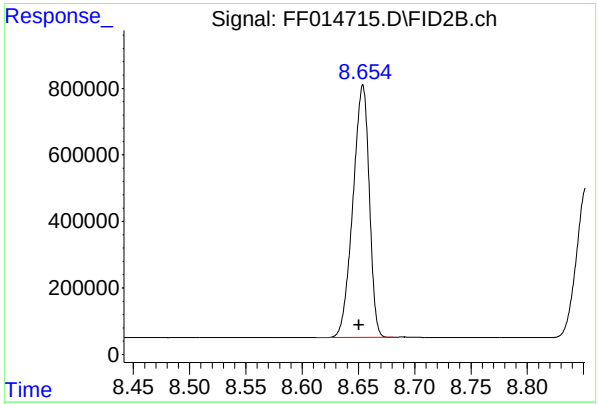
#3 2-Methylnaphthalene (C12.89)

R.T.: 7.354 min
Delta R.T.: 0.003 min
Response: 7839943
Conc: 47.61 ug/ml



#4 2-Bromonaphthalene (SURR)

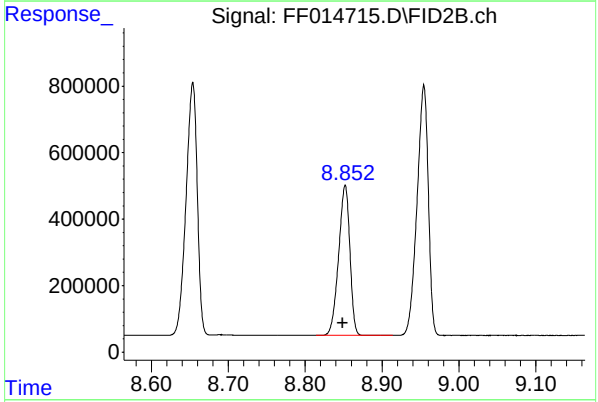
R.T.: 7.980 min
Delta R.T.: 0.002 min
Response: 6689236
Conc: 47.39 ug/ml



#5 Acenaphthylene (C15.06)

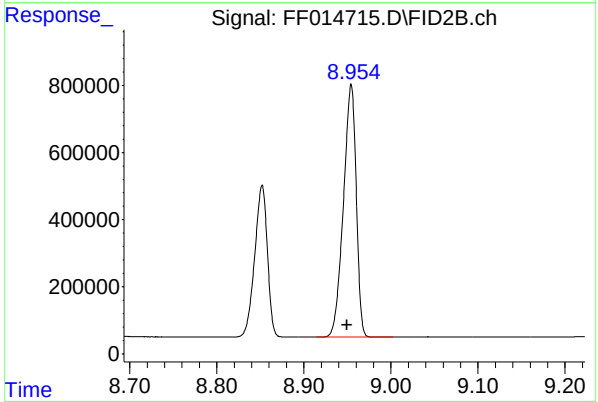
R.T.: 8.654 min
Delta R.T.: 0.003 min
Response: 7664632
Conc: 47.58 ug/ml

Instrument :
FID_F
ClientSampleId :
50 PPM AROMATIC HC STD2



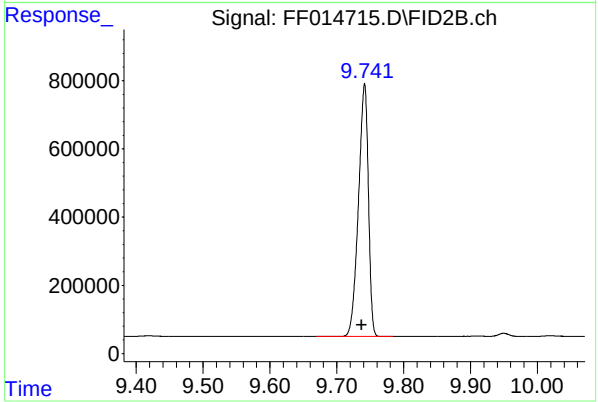
#6 2-Flurobiphenyl (SURR)

R.T.: 8.852 min
Delta R.T.: 0.003 min
Response: 4571031
Conc: 47.78 ug/ml



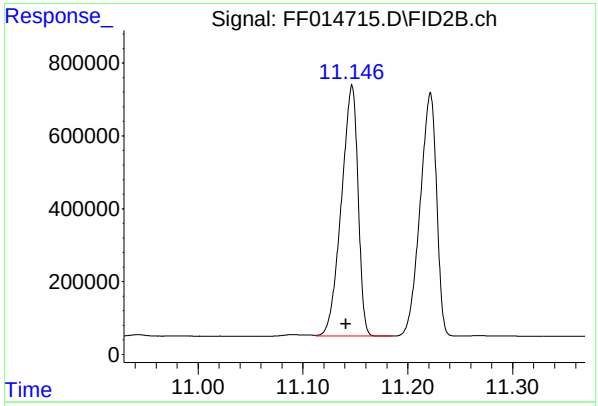
#7 Acenaphthene (C15.5)

R.T.: 8.954 min
Delta R.T.: 0.004 min
Response: 7677865
Conc: 47.75 ug/ml



#8 Flouorene (C16.55)

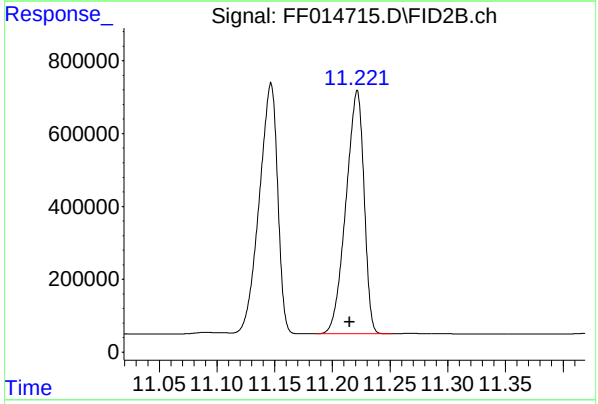
R.T.: 9.741 min
Delta R.T.: 0.004 min
Response: 7635772
Conc: 47.75 ug/ml



#9 Phenanthrene (C19.36)

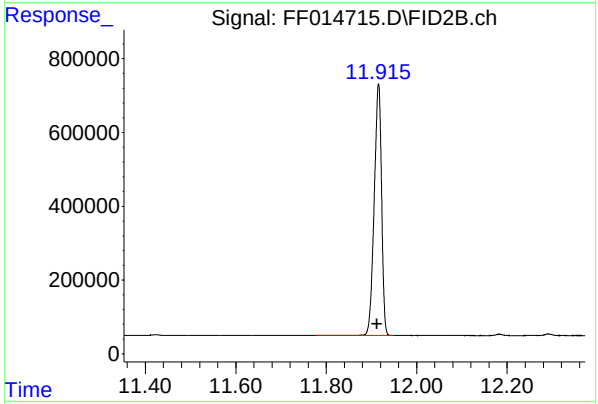
R.T.: 11.146 min
Delta R.T.: 0.005 min
Response: 7623448
Conc: 47.70 ug/ml

Instrument :
FID_F
ClientSampleId :
50 PPM AROMATIC HC STD2



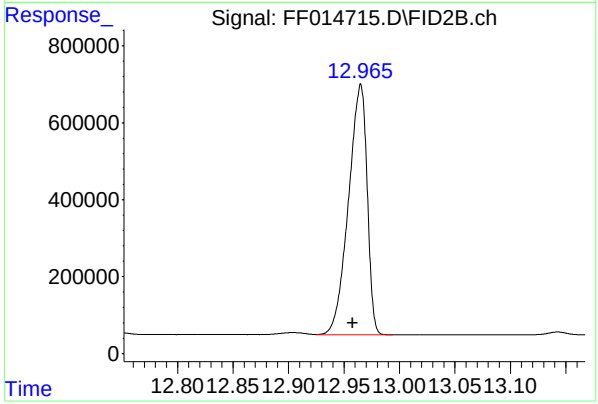
#10 Anthracene (C19.43)

R.T.: 11.221 min
Delta R.T.: 0.006 min
Response: 7279102
Conc: 47.69 ug/ml



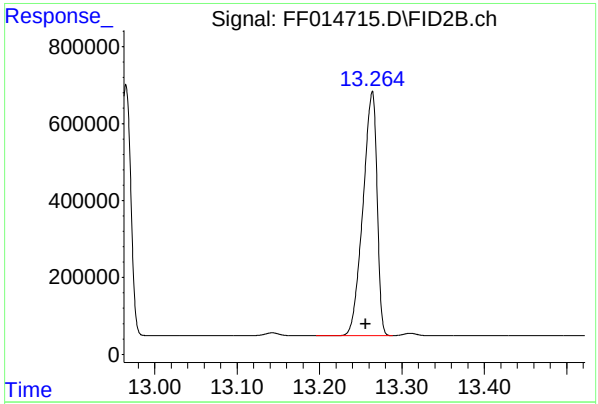
#11 ortho-Terphenyl (SURR)

R.T.: 11.916 min
Delta R.T.: 0.004 min
Response: 7694214
Conc: 47.51 ug/ml



#12 Fluoranthene (C21.85)

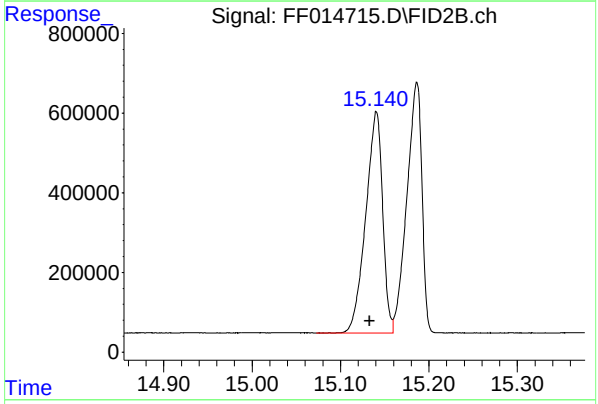
R.T.: 12.964 min
Delta R.T.: 0.007 min
Response: 7606946
Conc: 47.63 ug/ml



#13 Pyrene (C20.8)

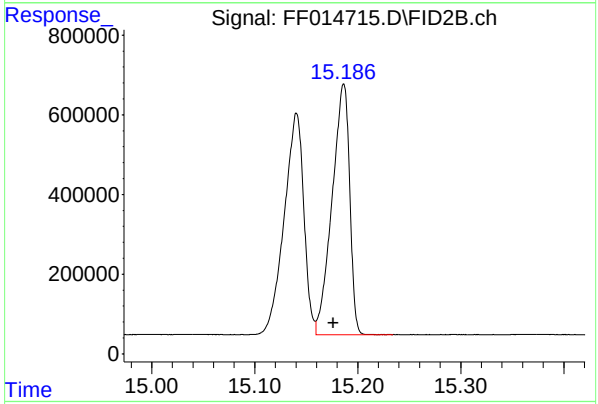
R.T.: 13.263 min
Delta R.T.: 0.007 min
Response: 7553450
Conc: 47.73 ug/ml

Instrument :
FID_F
ClientSampleId :
50 PPM AROMATIC HC STD2



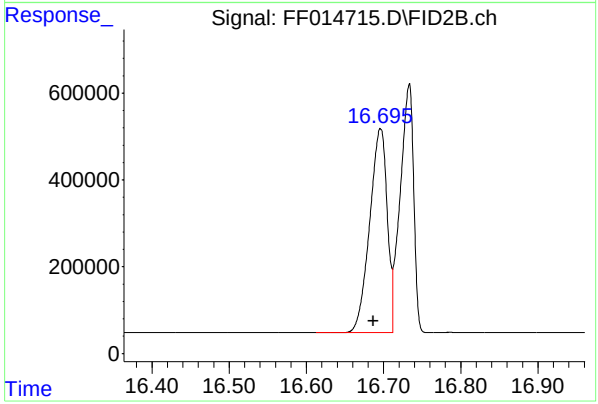
#14 Benzo[a]anthracene (C26.37)

R.T.: 15.140 min
Delta R.T.: 0.007 min
Response: 7373650
Conc: 47.85 ug/ml



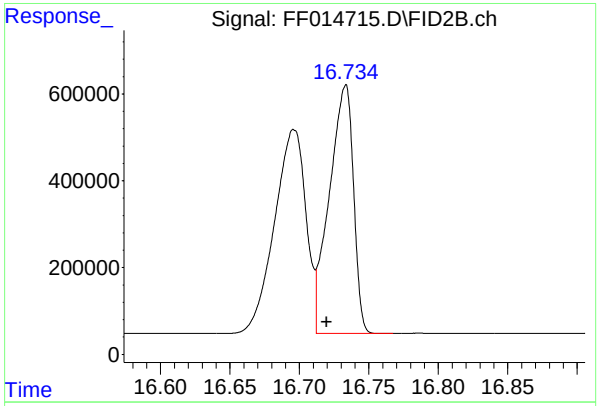
#15 Chrysene (C27.41)

R.T.: 15.186 min
Delta R.T.: 0.010 min
Response: 7451906
Conc: 47.70 ug/ml



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

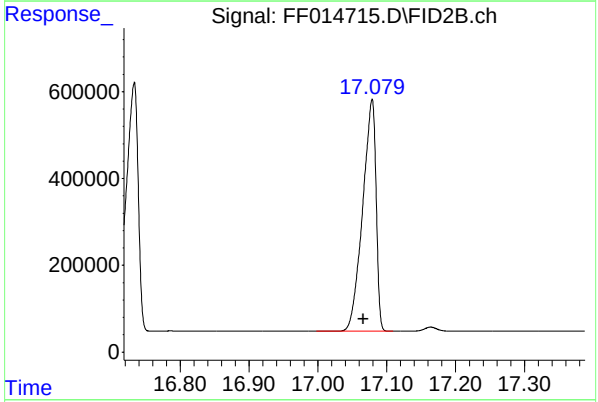
R.T.: 16.696 min
Delta R.T.: 0.009 min
Response: 7426647
Conc: 47.99 ug/ml



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

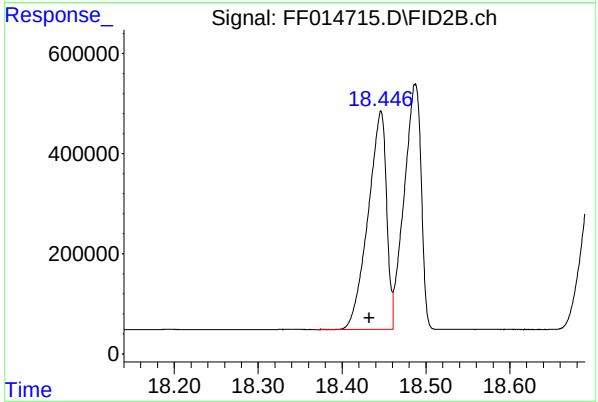
R.T.: 16.732 min
Delta R.T.: 0.013 min
Response: 6935597
Conc: 47.58 ug/ml

Instrument :
FID_F
ClientSampleId :
50 PPM AROMATIC HC STD2



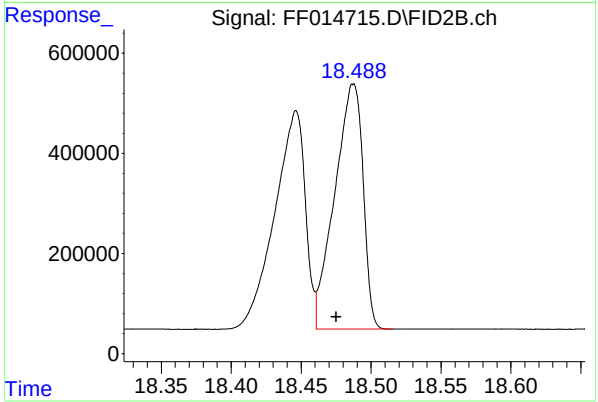
#18 Benzo[a]pyrene (C31.34)

R.T.: 17.078 min
Delta R.T.: 0.012 min
Response: 7230851
Conc: 47.79 ug/ml



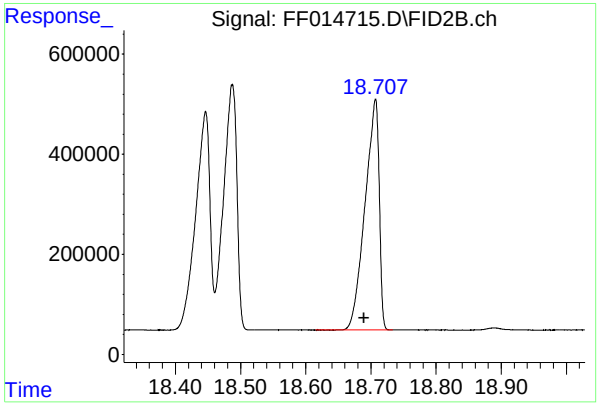
#19 Indeno[1,2,3-cd]pyrene (C35.01)

R.T.: 18.446 min
Delta R.T.: 0.013 min
Response: 6684543
Conc: 48.45 ug/ml



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

R.T.: 18.487 min
Delta R.T.: 0.012 min
Response: 6921838
Conc: 47.18 ug/ml



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

R.T.: 18.706 min
Delta R.T.: 0.017 mi
Response: 6954899
Conc: 47.96 ug/m

Instrument :
FID_F
ClientSampleId :
50 PPM AROMATIC HC STD2

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF102124AR\
Data File : FF014715.D
Signal(s) : FID2B.ch
Acq On : 21 Oct 2024 20:09
Sample : 50 PPM AROMATIC HC STD2
Misc :
ALS Vial : 22 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 102124.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	4.597	4.534	4.654	BB	776372	7362780	93.91%	4.846%
2	6.261	6.226	6.291	BV	811065	7752255	98.88%	5.102%
3	7.354	7.309	7.384	BV	788115	7839943	100.00%	5.160%
4	7.980	7.917	8.046	BB	691131	6689236	85.32%	4.403%
5	8.654	8.612	8.681	BV	763632	7664632	97.76%	5.045%
6	8.852	8.814	8.914	BV	454203	4571031	58.30%	3.009%
7	8.954	8.914	9.002	VB	753489	7677865	97.93%	5.054%
8	9.741	9.669	9.784	BB	735952	7635772	97.40%	5.026%
9	11.146	11.112	11.186	VV	684450	7623448	97.24%	5.018%
10	11.221	11.186	11.252	PV	666107	7279102	92.85%	4.791%
11	11.916	11.777	11.947	BB	683735	7694214	98.14%	5.064%
12	12.964	12.925	12.994	VB	646635	7606946	97.03%	5.007%
13	13.263	13.196	13.289	BV	637517	7553450	96.35%	4.972%
14	15.140	15.072	15.159	BV	557291	7373650	94.05%	4.853%
15	15.186	15.159	15.234	VB	629660	7451906	95.05%	4.905%
16	16.696	16.612	16.712	BV	470412	7426647	94.73%	4.888%
17	16.732	16.712	16.767	VV	570040	6935597	88.46%	4.565%
18	17.078	16.997	17.109	BV	530889	7230851	92.23%	4.759%
19	18.446	18.369	18.461	BV	437080	6684543	85.26%	4.400%
20	18.487	18.461	18.516	VB	490139	6921838	88.29%	4.556%
21	18.706	18.616	18.734	BV	458422	6954899	88.71%	4.578%

Sum of corrected areas: 151930603

Aromatic EPH 102124.M Tue Oct 22 04:21:41 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:	21 Oct 2024 20:38
Client Sample ID:		Operator:	YP\AJ
Data file:	FF014716.D	Misc:	
Instrument:	FID_F	ALS Vial:	23
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aromatic C10-C12	4.497	6.360	6337092.000	40.000	ug/ml
Aromatic C12-C16	6.361	9.050	9730614.000	60.000	ug/ml
Aromatic C16-C21	9.051	13.357	12612739.000	80.000	ug/ml
Aromatic C21-C36	13.358	18.791	27030069.000	180.000	ug/ml
Aromatic EPH	4.497	18.791	55710514.000	360.000	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF102124AR\
Data File : FF014716.D
Signal(s) : FID2B.ch
Acq On : 21 Oct 2024 20:38
Operator : YP\AJ
Sample : 20 PPM AROMATIC HC STD3
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
20 PPM AROMATIC HC STD3

Integration File: autoint1.e
Quant Time: Oct 22 04:10:19 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 102124.M
Quant Title : GC Extractables
QLast Update : Tue Oct 22 04:07:29 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...	7.978	2823352	20.000	ug/ml
Spiked Amount	50.000		Recovery =	40.00%	
6)	S 2-Flurobiphenyl (SURR)	8.849	1913395	20.000	ug/ml
Spiked Amount	50.000 Range	0 - 131	Recovery =	40.00%	
11)	S ortho-Terphenyl (SURR)	11.912	3239128	20.000	ug/ml
Spiked Amount	50.000		Recovery =	40.00%	
	Target Compounds				
1)	T 1,2,3-Trimethylbenzen...	4.596	3087639	20.000	ug/ml
2)	T Naphthalene (C11.7)	6.259	3249453	20.000	ug/ml
3)	T 2-Methylnaphthalene (...	7.352	3293118	20.000	ug/ml
5)	T Acenaphthylene (C15.06)	8.650	3221821	20.000	ug/ml
7)	T Acenaphthene (C15.5)	8.950	3215675	20.000	ug/ml
8)	T Flouorene (C16.55)	9.737	3198427	20.000	ug/ml
9)	T Phenanthrene (C19.36)	11.141	3196376	20.000	ug/ml
10)	T Anthracene (C19.43)	11.215	3052948	20.000	ug/ml
12)	T Fluoranthene (C21.85)	12.958	3194024	20.000	ug/ml
13)	T Pyrene (C20.8)	13.256	3164988	20.000	ug/ml
14)	T Benzo[a]anthracene (C...	15.133	3081850	20.000	ug/ml
15)	T Chrysene (C27.41)	15.176	3124322	20.000	ug/ml
16)	T benzo[b]fluoranthene ...	16.687	3094850	20.000	ug/ml
17)	T Bnezo[k]fluoranthene ...	16.720	2915142	20.000	ug/ml
18)	T Benzo[a]pyrene (C31.34)	17.066	3026272	20.000	ug/ml
19)	T Indeno[1,2,3-cd]pyren...	18.433	2759252	20.000	ug/ml
20)	T Dibenz[a,h]anthracene...	18.475	2933930	20.000	ug/ml
21)	T Benzo[g,h,i]perylene ...	18.689	2900427	20.000	ug/ml

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

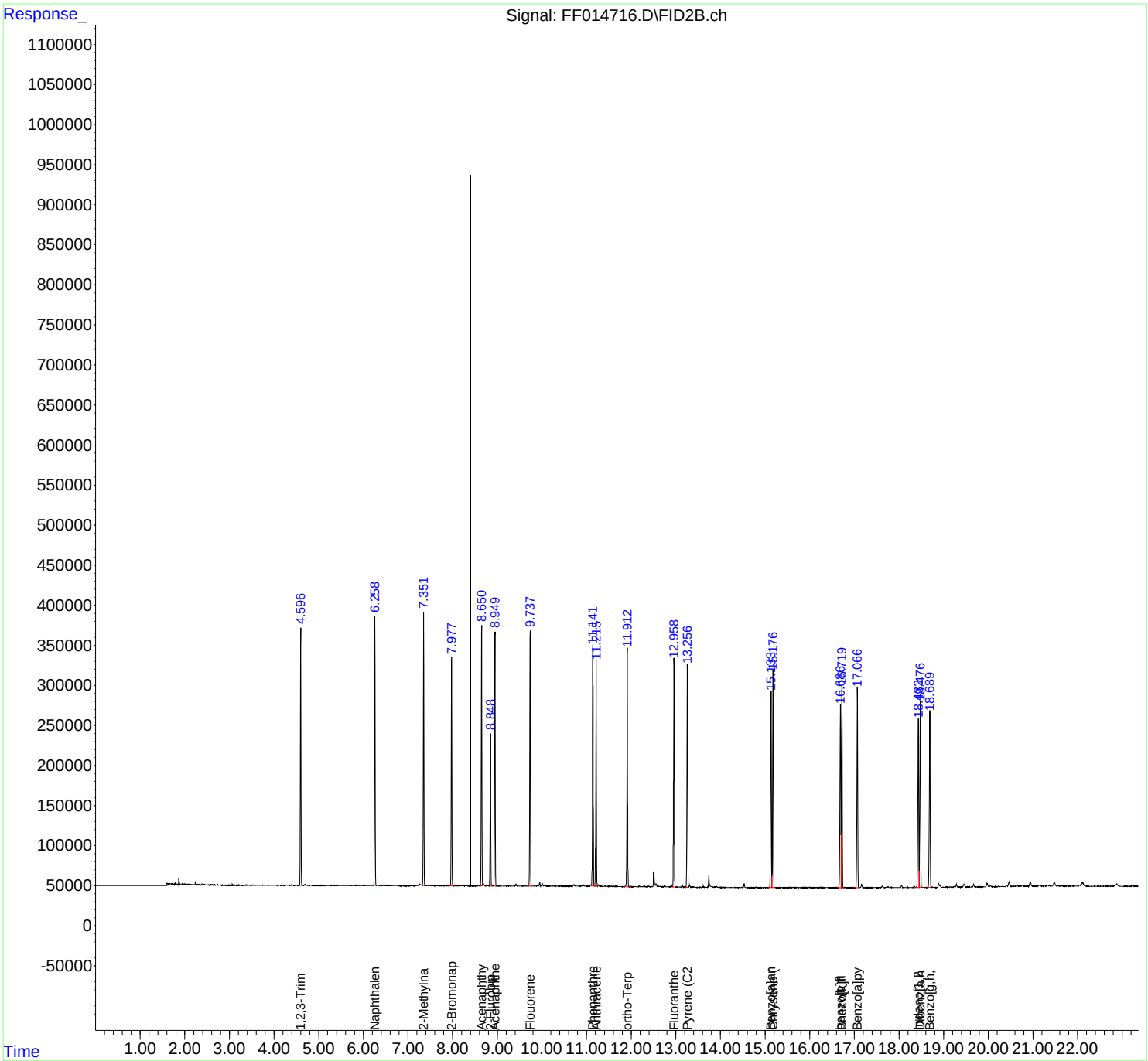
Quantitation Report (QT Reviewed)

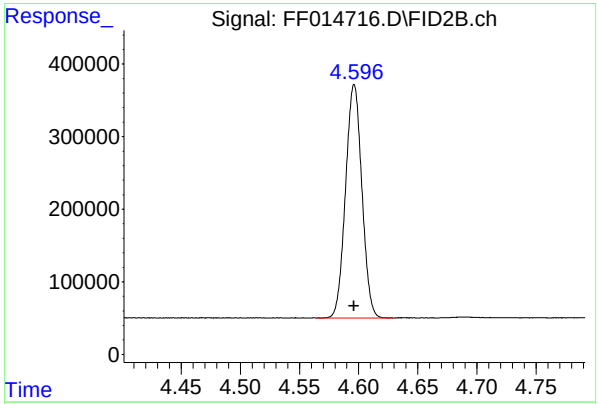
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF102124AR\
Data File : FF014716.D
Signal(s) : FID2B.ch
Acq On : 21 Oct 2024 20:38
Operator : YP\AJ
Sample : 20 PPM AROMATIC HC STD3
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
20 PPM AROMATIC HC STD3

Integration File: autoint1.e
Quant Time: Oct 22 04:10:19 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 102124.M
Quant Title : GC Extractables
QLast Update : Tue Oct 22 04:07:29 2024
Response via : Initial Calibration
Integrator: ChemStation

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

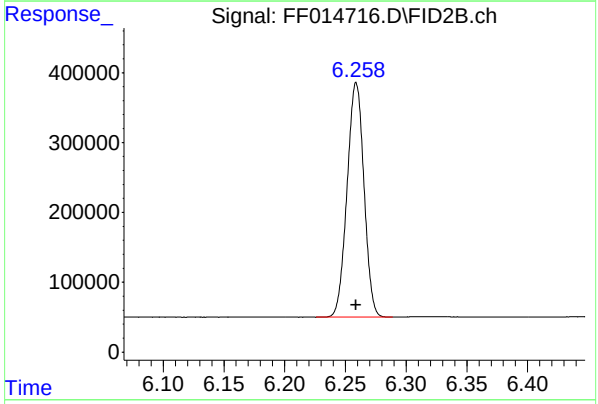




#1 1,2,3-Trimethylbenzene (C10.1)

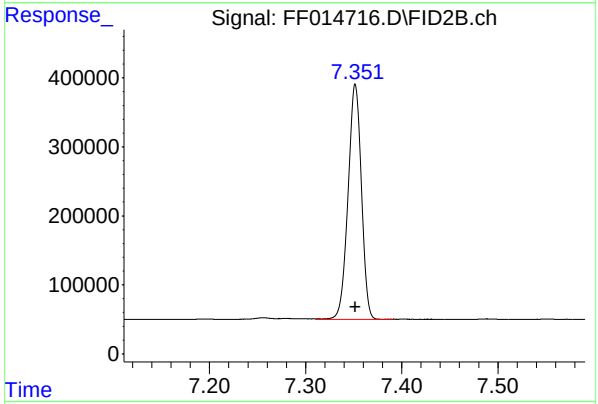
R.T.: 4.596 min
Delta R.T.: 0.000 min
Response: 3087639
Conc: 20.00 ug/ml

Instrument :
FID_F
ClientSampleId :
20 PPM AROMATIC HC STD3



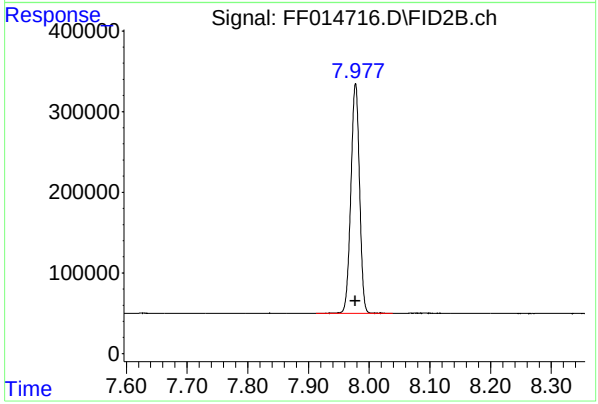
#2 Naphthalene (C11.7)

R.T.: 6.259 min
Delta R.T.: 0.000 min
Response: 3249453
Conc: 20.00 ug/ml



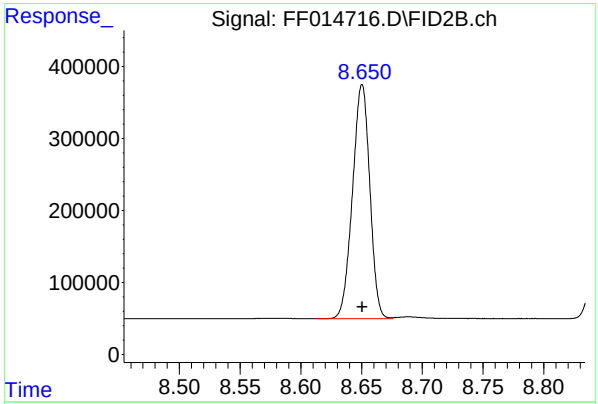
#3 2-Methylnaphthalene (C12.89)

R.T.: 7.352 min
Delta R.T.: 0.000 min
Response: 3293118
Conc: 20.00 ug/ml



#4 2-Bromonaphthalene (SURR)

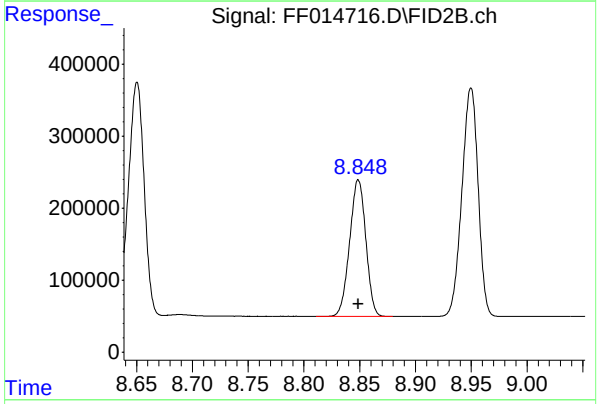
R.T.: 7.978 min
Delta R.T.: 0.000 min
Response: 2823352
Conc: 20.00 ug/ml



#5 Acenaphthylene (C15.06)

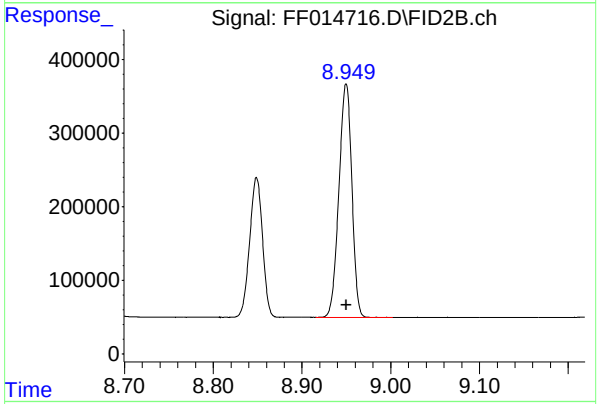
R.T.: 8.650 min
Delta R.T.: 0.000 min
Response: 3221821
Conc: 20.00 ug/ml

Instrument :
FID_F
ClientSampleId :
20 PPM AROMATIC HC STD3



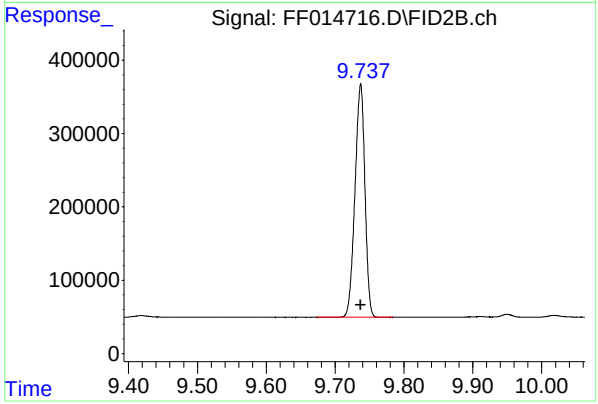
#6 2-Flurobiphenyl (SURR)

R.T.: 8.849 min
Delta R.T.: 0.000 min
Response: 1913395
Conc: 20.00 ug/ml



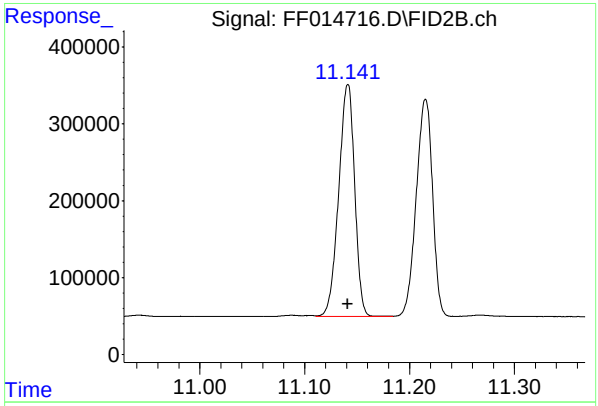
#7 Acenaphthene (C15.5)

R.T.: 8.950 min
Delta R.T.: 0.000 min
Response: 3215675
Conc: 20.00 ug/ml



#8 Flouorene (C16.55)

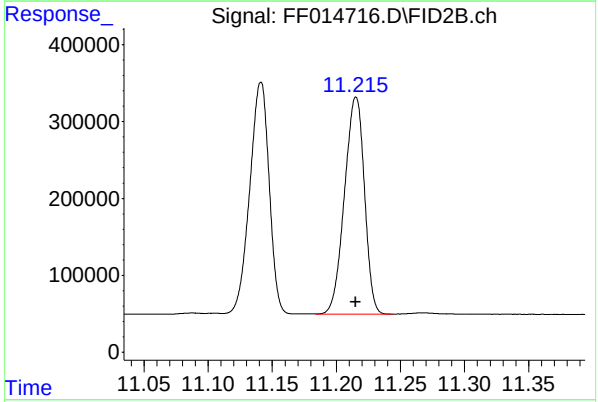
R.T.: 9.737 min
Delta R.T.: 0.000 min
Response: 3198427
Conc: 20.00 ug/ml



#9 Phenanthrene (C19.36)

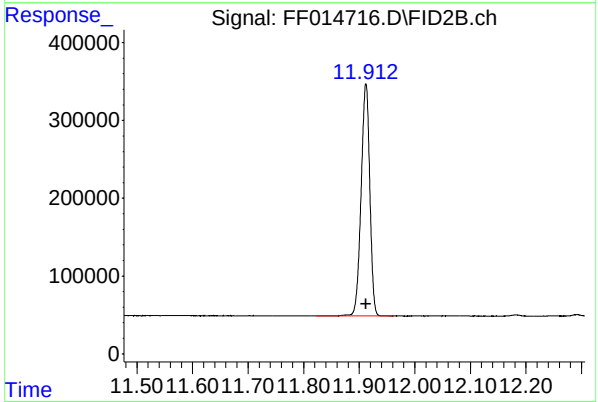
R.T.: 11.141 min
Delta R.T.: 0.000 min
Response: 3196376
Conc: 20.00 ug/ml

Instrument :
FID_F
ClientSampleId :
20 PPM AROMATIC HC STD3



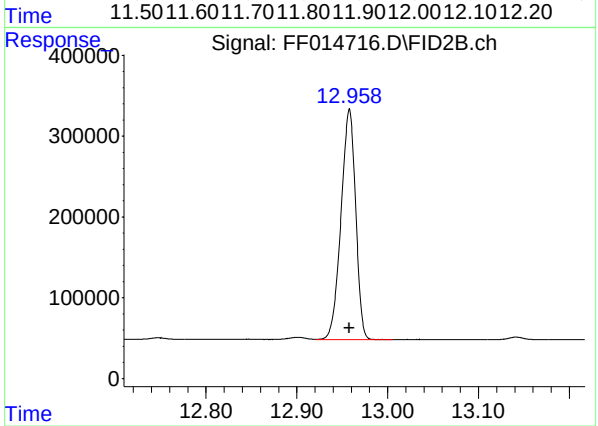
#10 Anthracene (C19.43)

R.T.: 11.215 min
Delta R.T.: 0.000 min
Response: 3052948
Conc: 20.00 ug/ml



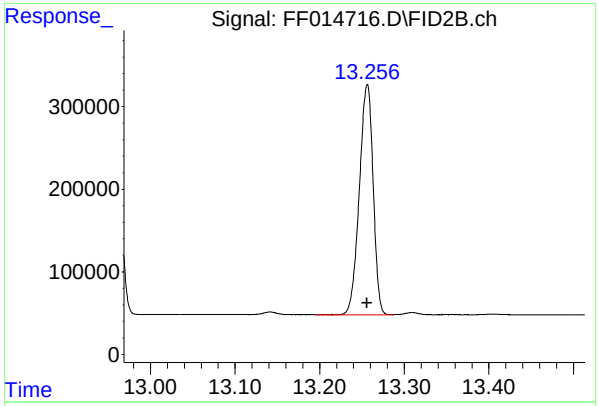
#11 ortho-Terphenyl (SURR)

R.T.: 11.912 min
Delta R.T.: 0.000 min
Response: 3239128
Conc: 20.00 ug/ml



#12 Fluoranthene (C21.85)

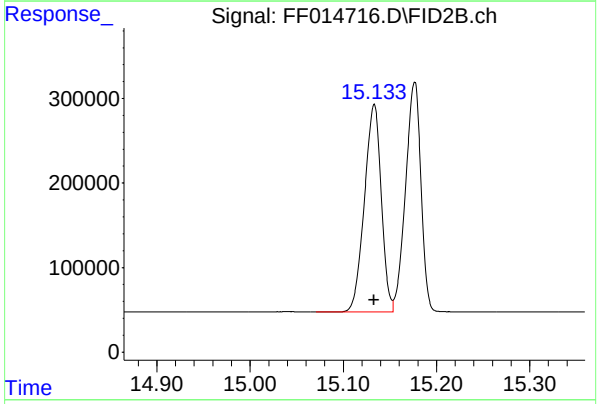
R.T.: 12.958 min
Delta R.T.: 0.000 min
Response: 3194024
Conc: 20.00 ug/ml



#13 Pyrene (C20.8)

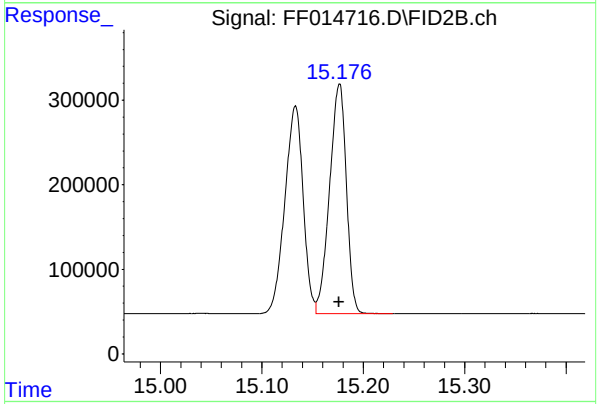
R.T.: 13.256 min
Delta R.T.: 0.000 min
Response: 3164988
Conc: 20.00 ug/ml

Instrument :
FID_F
ClientSampleId :
20 PPM AROMATIC HC STD3



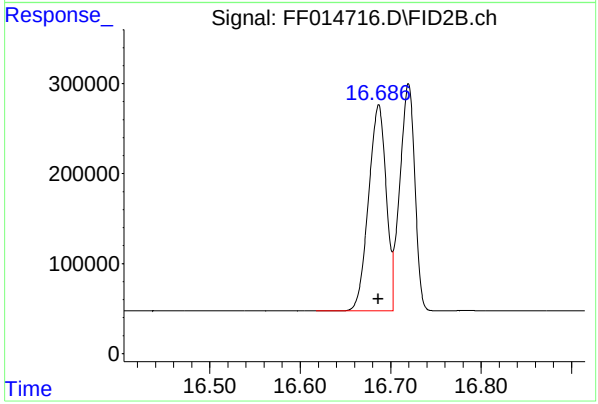
#14 Benzo[a]anthracene (C26.37)

R.T.: 15.133 min
Delta R.T.: 0.000 min
Response: 3081850
Conc: 20.00 ug/ml



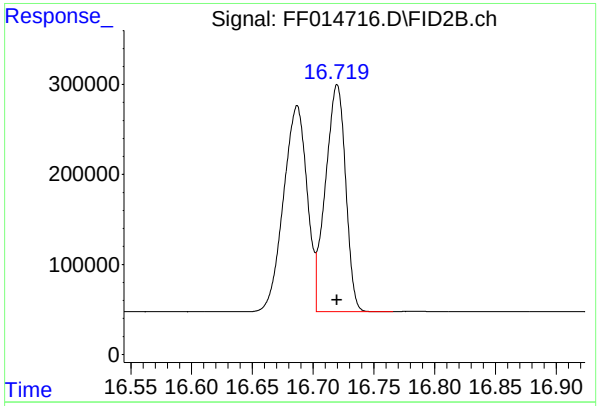
#15 Chrysene (C27.41)

R.T.: 15.176 min
Delta R.T.: 0.000 min
Response: 3124322
Conc: 20.00 ug/ml



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

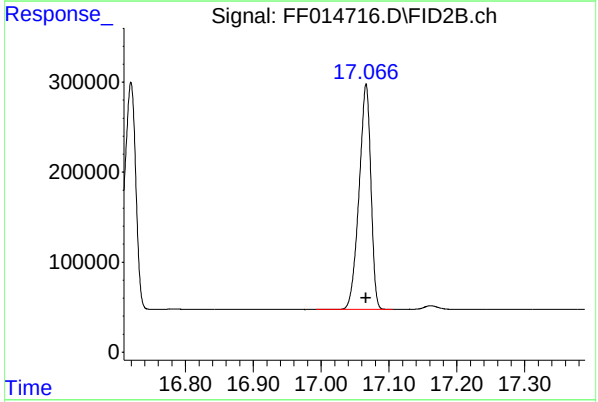
R.T.: 16.687 min
Delta R.T.: 0.000 min
Response: 3094850
Conc: 20.00 ug/ml



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

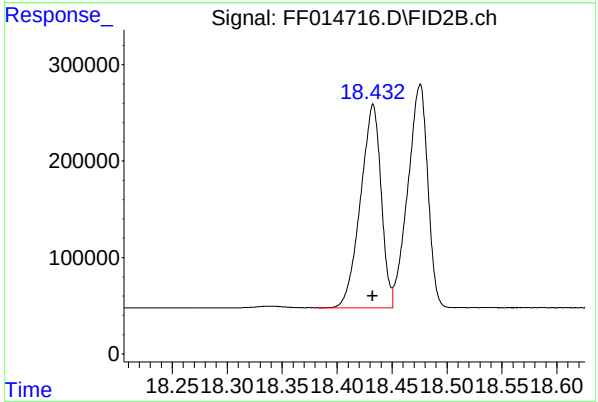
R.T.: 16.720 min
Delta R.T.: 0.000 min
Response: 2915142
Conc: 20.00 ug/ml

Instrument :
FID_F
ClientSampleId :
20 PPM AROMATIC HC STD3



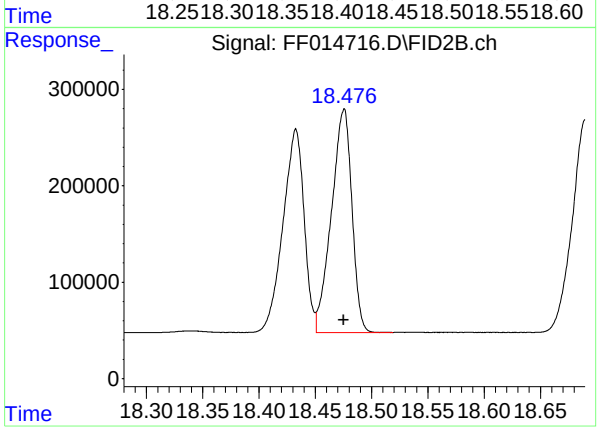
#18 Benzo[a]pyrene (C31.34)

R.T.: 17.066 min
Delta R.T.: 0.000 min
Response: 3026272
Conc: 20.00 ug/ml



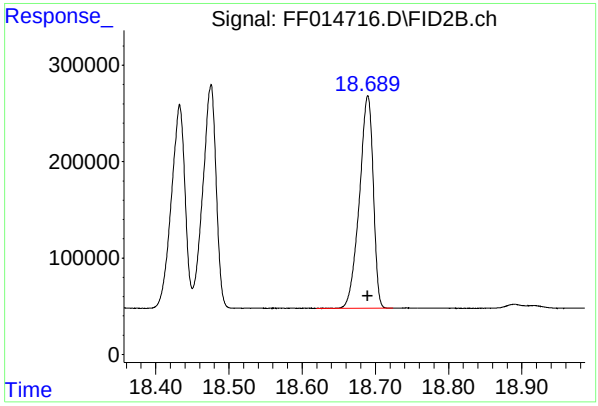
#19 Indeno[1,2,3-cd]pyrene (C35.01)

R.T.: 18.433 min
Delta R.T.: 0.000 min
Response: 2759252
Conc: 20.00 ug/ml



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

R.T.: 18.475 min
Delta R.T.: 0.000 min
Response: 2933930
Conc: 20.00 ug/ml



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

R.T.: 18.689 min
Delta R.T.: 0.000 mi
Response: 2900427
Conc: 20.00 ug/m

Instrument :
FID_F
ClientSampleId :
20 PPM AROMATIC HC STD3

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF102124AR\
Data File : FF014716.D
Signal(s) : FID2B.ch
Acq On : 21 Oct 2024 20:38
Sample : 20 PPM AROMATIC HC STD3
Misc :
ALS Vial : 23 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 102124.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	4.596	4.564	4.629	BB	321682	3087639	93.76%	4.848%
2	6.259	6.226	6.289	BV	336017	3249453	98.67%	5.102%
3	7.352	7.311	7.391	VB	340072	3293118	100.00%	5.171%
4	7.978	7.912	8.039	BB	285015	2823352	85.73%	4.433%
5	8.650	8.612	8.676	BV	326003	3221821	97.83%	5.059%
6	8.849	8.811	8.880	BB	189751	1913395	58.10%	3.004%
7	8.950	8.916	9.002	BB	317976	3215675	97.65%	5.049%
8	9.737	9.672	9.784	BB	319641	3198427	97.12%	5.022%
9	11.141	11.111	11.184	VV	302497	3196376	97.06%	5.019%
10	11.215	11.184	11.244	VV	283324	3052948	92.71%	4.794%
11	11.912	11.822	11.961	BB	298988	3239128	98.36%	5.086%
12	12.958	12.921	13.006	VB	284636	3194024	96.99%	5.015%
13	13.256	13.196	13.287	BV	278738	3164988	96.11%	4.970%
14	15.133	15.071	15.153	BV	245571	3081850	93.58%	4.839%
15	15.176	15.153	15.229	VB	271525	3124322	94.87%	4.906%
16	16.687	16.617	16.702	BV	230223	3094850	93.98%	4.860%
17	16.720	16.702	16.766	VV	252738	2915142	88.52%	4.577%
18	17.066	16.992	17.106	BB	250579	3026272	91.90%	4.752%
19	18.433	18.381	18.451	VV	211502	2759252	83.79%	4.333%
20	18.475	18.451	18.519	VB	232870	2933930	89.09%	4.607%
21	18.689	18.619	18.724	BV	220580	2900427	88.08%	4.554%
			Sum of corrected areas:			63686390		

Aromatic EPH 102124.M Tue Oct 22 04:22:12 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:	21 Oct 2024 21:06
Client Sample ID:		Operator:	YP\AJ
Data file:	FF014717.D	Misc:	
Instrument:	FID_F	ALS Vial:	24
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aromatic C10-C12	4.497	6.360	3244642.000	20.000	ug/ml
Aromatic C12-C16	6.361	9.050	4962356.000	30.000	ug/ml
Aromatic C16-C21	9.051	13.357	6471263.000	40.000	ug/ml
Aromatic C21-C36	13.358	18.791	13831409.000	90.000	ug/ml
Aromatic EPH	4.497	18.791	28509670.000	180.000	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF102124AR\
Data File : FF014717.D
Signal(s) : FID2B.ch
Acq On : 21 Oct 2024 21:06
Operator : YP\AJ
Sample : 10 PPM AROMATIC HC STD4
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
10 PPM AROMATIC HC STD4

Integration File: autoint1.e
Quant Time: Oct 22 04:10:29 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 102124.M
Quant Title : GC Extractables
QLast Update : Tue Oct 22 04:07:29 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...	7.976	1450237	10.273	ug/ml
Spiked Amount	50.000		Recovery =	20.55%	
6)	S 2-Flurobiphenyl (SURR)	8.848	981036	10.254	ug/ml
Spiked Amount	50.000 Range 0 - 131		Recovery =	20.51%	
11)	S ortho-Terphenyl (SURR)	11.911	1666218	10.288	ug/ml
Spiked Amount	50.000		Recovery =	20.58%	
	Target Compounds				
1)	T 1,2,3-Trimethylbenzen...	4.596	1581107	10.242	ug/ml
2)	T Naphthalene (C11.7)	6.258	1663535	10.239	ug/ml
3)	T 2-Methylnaphthalene (...	7.351	1681678	10.213	ug/ml
5)	T Acenaphthylene (C15.06)	8.649	1634346	10.145	ug/ml
7)	T Acenaphthene (C15.5)	8.948	1646332	10.239	ug/ml
8)	T Flouorene (C16.55)	9.735	1639759	10.254	ug/ml
9)	T Phenanthrene (C19.36)	11.139	1648803	10.317	ug/ml
10)	T Anthracene (C19.43)	11.213	1564215	10.247	ug/ml
12)	T Fluoranthene (C21.85)	12.956	1639390	10.265	ug/ml
13)	T Pyrene (C20.8)	13.254	1618486	10.227	ug/ml
14)	T Benzo[a]anthracene (C...	15.130	1574128	10.215	ug/ml
15)	T Chrysene (C27.41)	15.172	1600933	10.248	ug/ml
16)	T benzo[b]fluoranthene ...	16.682	1575119	10.179	ug/ml
17)	T Bnezo[k]fluoranthene ...	16.714	1494739	10.255	ug/ml
18)	T Benzo[a]pyrene (C31.34)	17.062	1546643	10.221	ug/ml
19)	T Indeno[1,2,3-cd]pyren...	18.427	1399570	10.145	ug/ml
20)	T Dibenz[a,h]anthracene...	18.470	1526488	10.406	ug/ml
21)	T Benzo[g,h,i]perylene ...	18.682	1474399	10.167	ug/ml

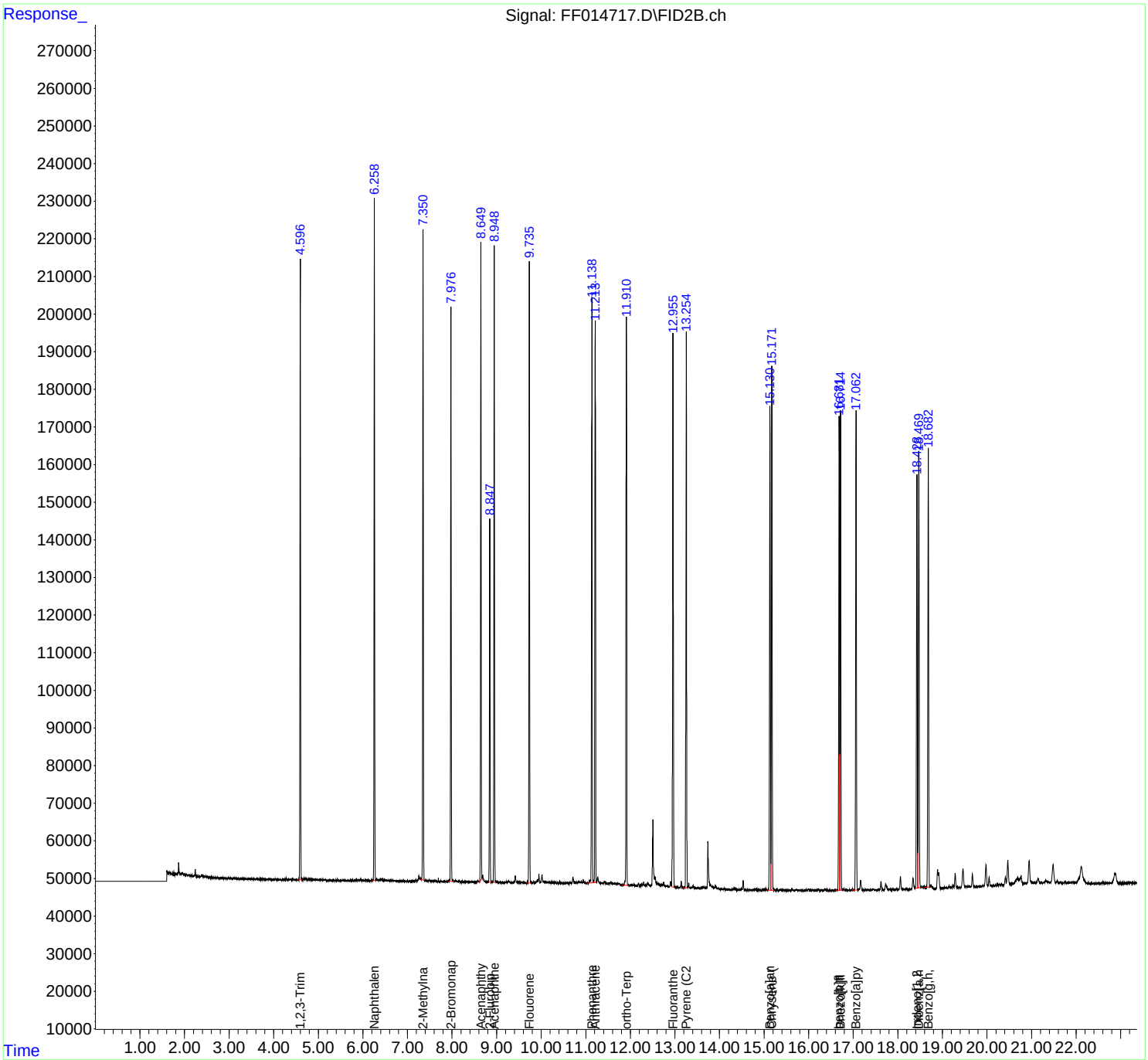
(f)=RT Delta > 1/2 Window (m)=manual int.

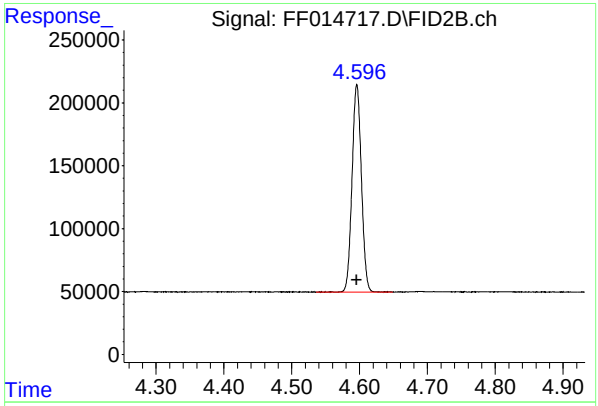
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF102124AR\
Data File : FF014717.D
Signal(s) : FID2B.ch
Acq On : 21 Oct 2024 21:06
Operator : YP\AJ
Sample : 10 PPM AROMATIC HC STD4
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
10 PPM AROMATIC HC STD4

Integration File: autoint1.e
Quant Time: Oct 22 04:10:29 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 102124.M
Quant Title : GC Extractables
QLast Update : Tue Oct 22 04:07:29 2024
Response via : Initial Calibration
Integrator: ChemStation

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

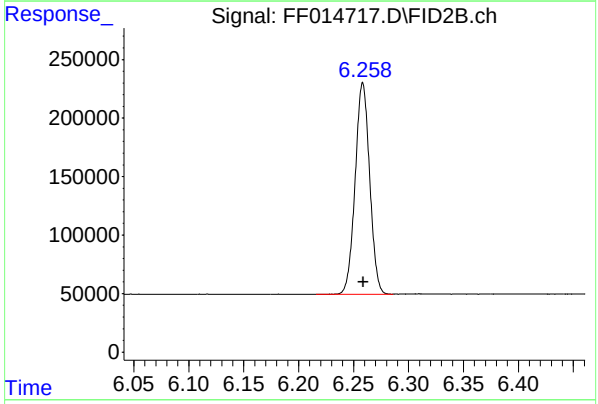




#1 1,2,3-Trimethylbenzene (C10.1)

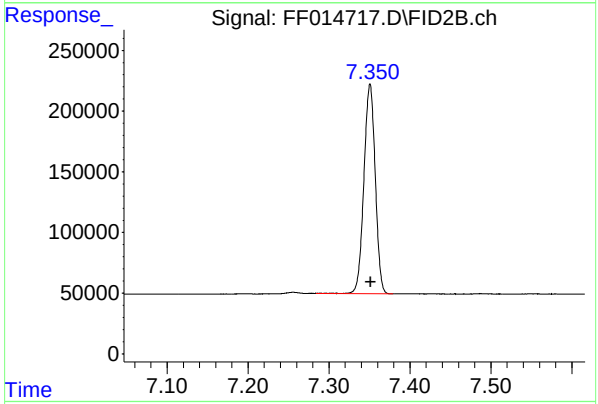
R.T.: 4.596 min
Delta R.T.: 0.000 min
Response: 1581107
Conc: 10.24 ug/ml

Instrument :
FID_F
ClientSampleId :
10 PPM AROMATIC HC STD4



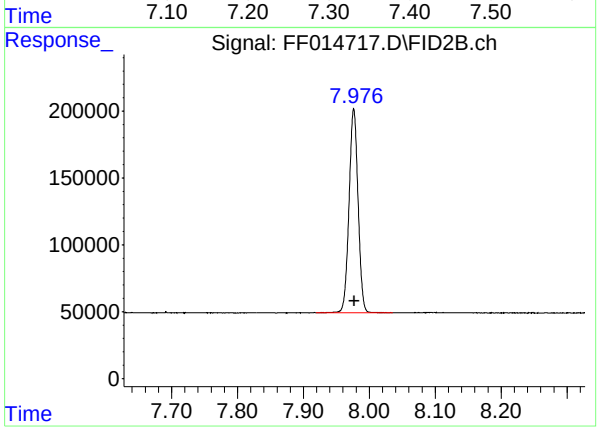
#2 Naphthalene (C11.7)

R.T.: 6.258 min
Delta R.T.: 0.000 min
Response: 1663535
Conc: 10.24 ug/ml



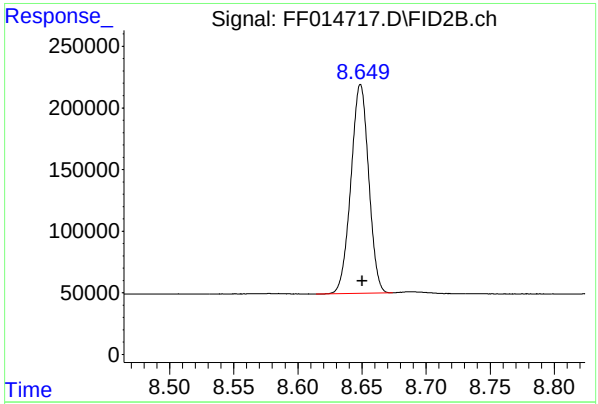
#3 2-Methylnaphthalene (C12.89)

R.T.: 7.351 min
Delta R.T.: -0.001 min
Response: 1681678
Conc: 10.21 ug/ml



#4 2-Bromonaphthalene (SURR)

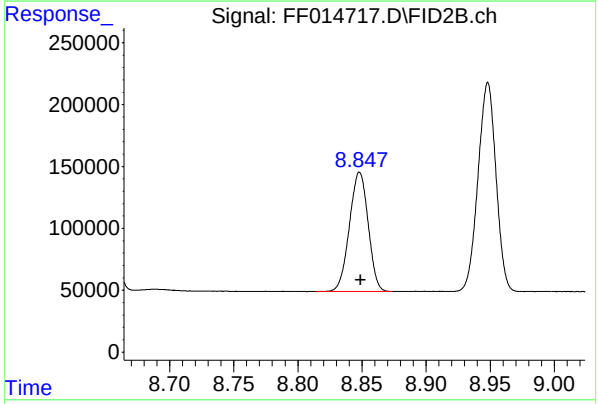
R.T.: 7.976 min
Delta R.T.: -0.001 min
Response: 1450237
Conc: 10.27 ug/ml



#5 Acenaphthylene (C15.06)

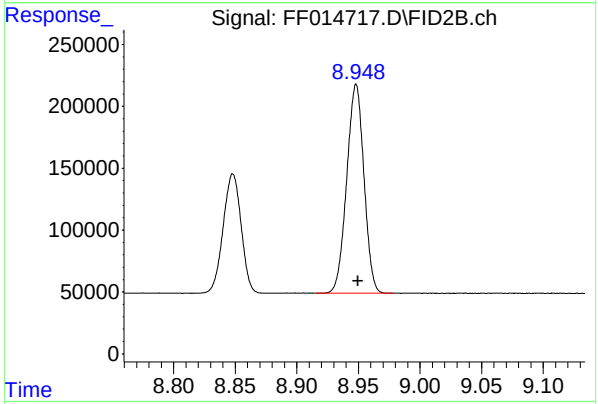
R.T.: 8.649 min
Delta R.T.: -0.002 min
Response: 1634346
Conc: 10.15 ug/ml

Instrument :
FID_F
ClientSampleId :
10 PPM AROMATIC HC STD4



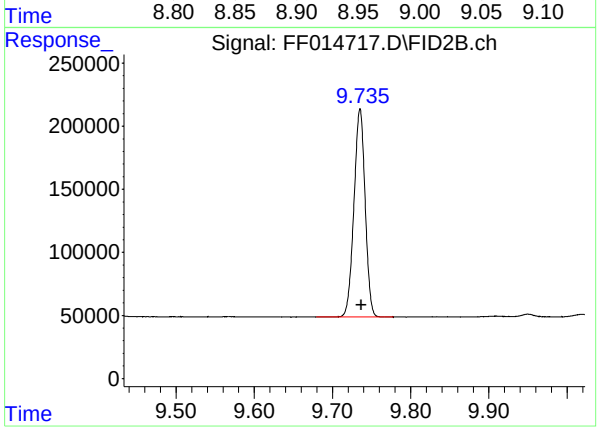
#6 2-Flurobiphenyl (SURR)

R.T.: 8.848 min
Delta R.T.: 0.000 min
Response: 981036
Conc: 10.25 ug/ml



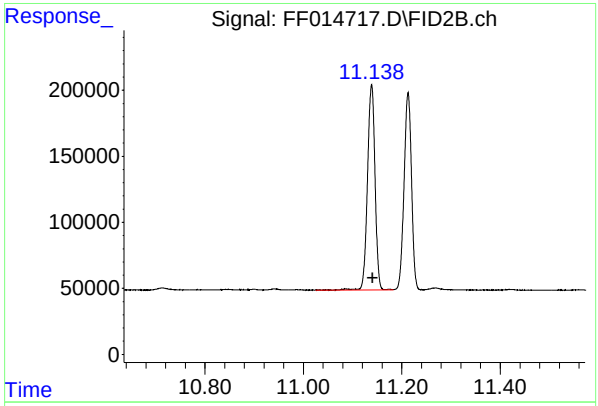
#7 Acenaphthene (C15.5)

R.T.: 8.948 min
Delta R.T.: -0.002 min
Response: 1646332
Conc: 10.24 ug/ml



#8 Flouorene (C16.55)

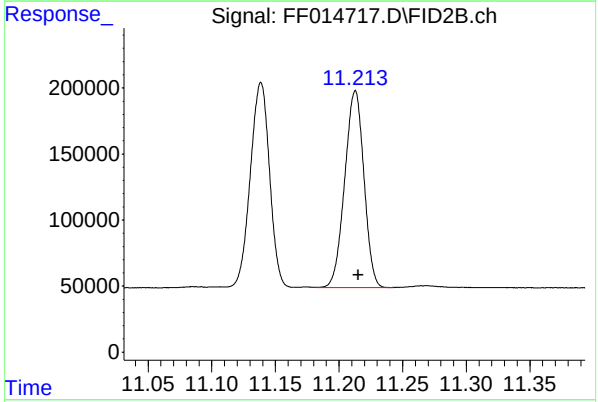
R.T.: 9.735 min
Delta R.T.: -0.002 min
Response: 1639759
Conc: 10.25 ug/ml



#9 Phenanthrene (C19.36)

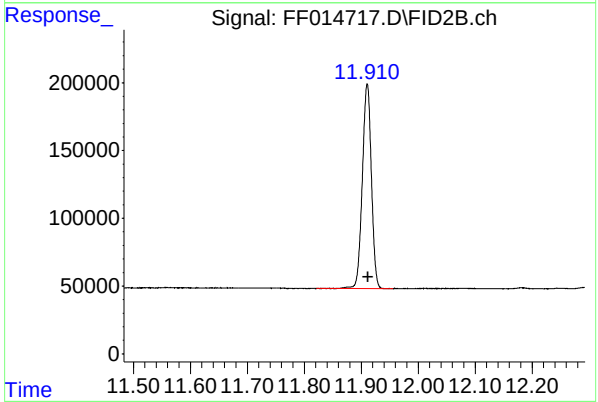
R.T.: 11.139 min
Delta R.T.: -0.002 min
Response: 1648803
Conc: 10.32 ug/ml

Instrument :
FID_F
ClientSampleId :
10 PPM AROMATIC HC STD4



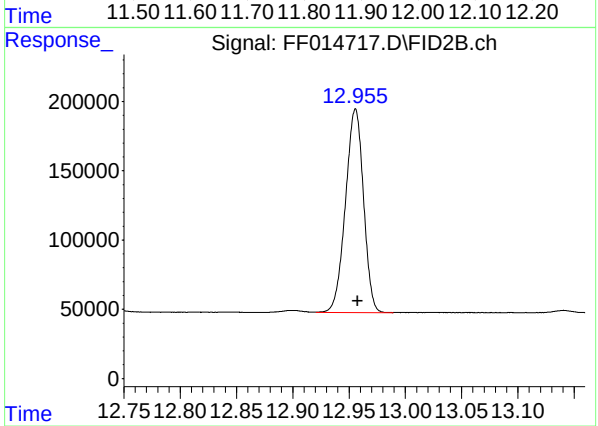
#10 Anthracene (C19.43)

R.T.: 11.213 min
Delta R.T.: -0.002 min
Response: 1564215
Conc: 10.25 ug/ml



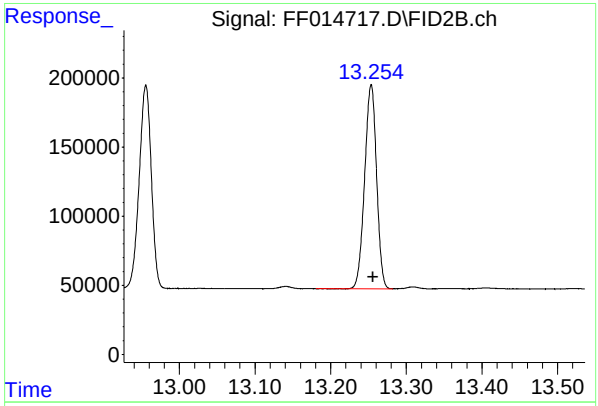
#11 ortho-Terphenyl (SURR)

R.T.: 11.911 min
Delta R.T.: -0.002 min
Response: 1666218
Conc: 10.29 ug/ml



#12 Fluoranthene (C21.85)

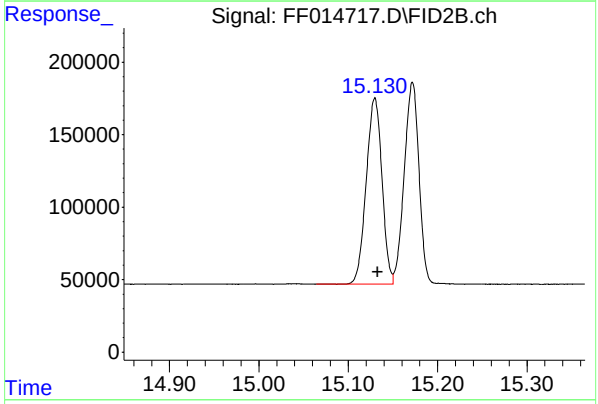
R.T.: 12.956 min
Delta R.T.: -0.002 min
Response: 1639390
Conc: 10.27 ug/ml



#13 Pyrene (C20.8)

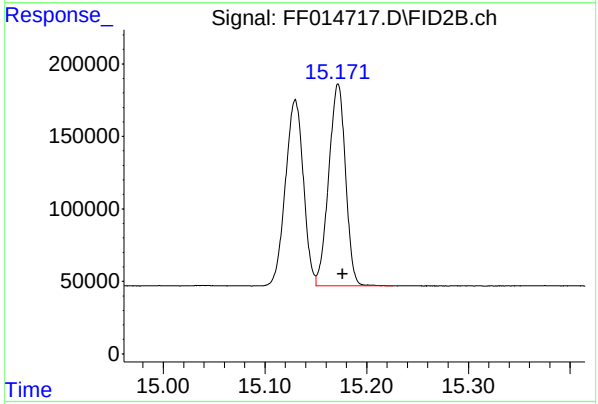
R.T.: 13.254 min
Delta R.T.: -0.003 min
Response: 1618486
Conc: 10.23 ug/ml

Instrument :
FID_F
ClientSampleId :
10 PPM AROMATIC HC STD4



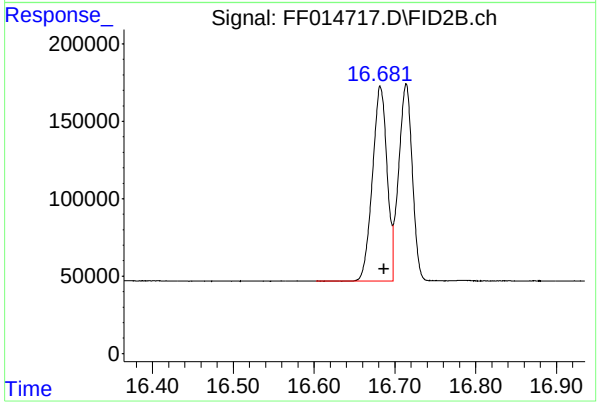
#14 Benzo[a]anthracene (C26.37)

R.T.: 15.130 min
Delta R.T.: -0.003 min
Response: 1574128
Conc: 10.22 ug/ml



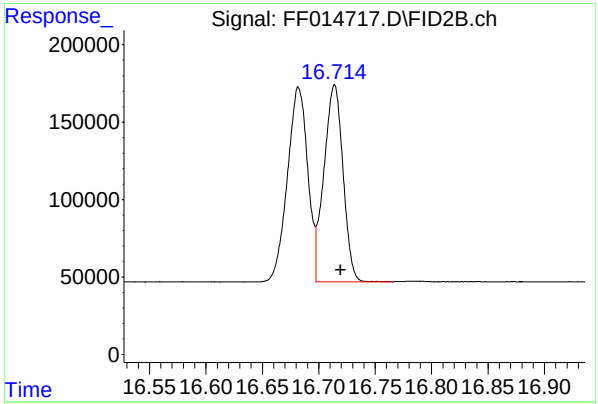
#15 Chrysene (C27.41)

R.T.: 15.172 min
Delta R.T.: -0.004 min
Response: 1600933
Conc: 10.25 ug/ml



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

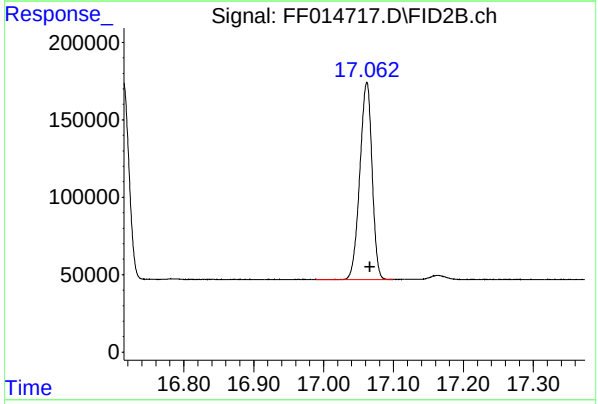
R.T.: 16.682 min
Delta R.T.: -0.004 min
Response: 1575119
Conc: 10.18 ug/ml



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

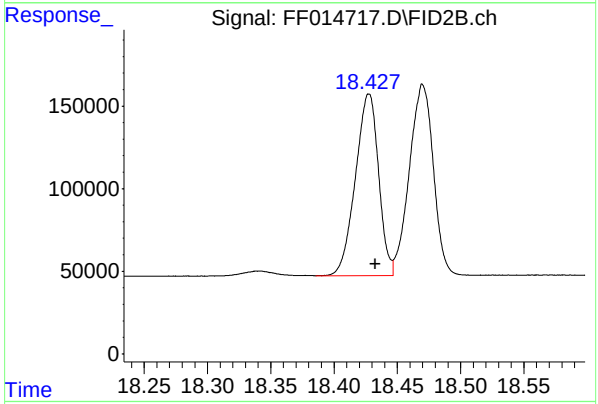
R.T.: 16.714 min
Delta R.T.: -0.006 min
Response: 1494739
Conc: 10.25 ug/ml

Instrument :
FID_F
ClientSampleId :
10 PPM AROMATIC HC STD4



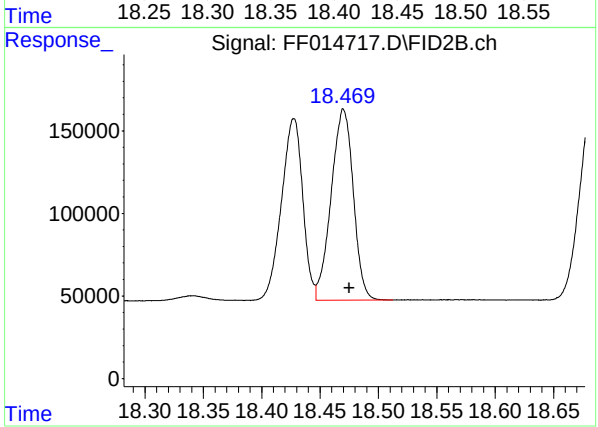
#18 Benzo[a]pyrene (C31.34)

R.T.: 17.062 min
Delta R.T.: -0.004 min
Response: 1546643
Conc: 10.22 ug/ml



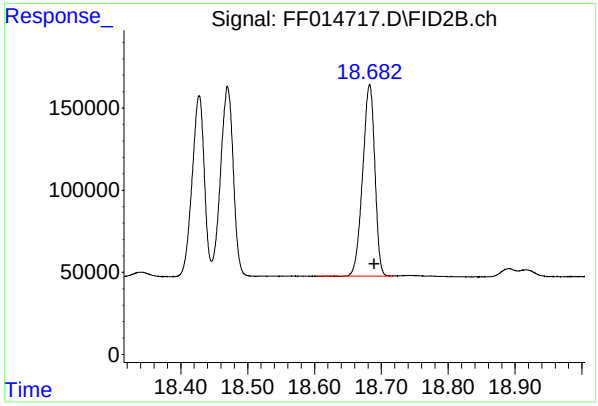
#19 Indeno[1,2,3-cd]pyrene (C35.01)

R.T.: 18.427 min
Delta R.T.: -0.005 min
Response: 1399570
Conc: 10.14 ug/ml



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

R.T.: 18.470 min
Delta R.T.: -0.005 min
Response: 1526488
Conc: 10.41 ug/ml



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

R.T.: 18.682 min
Delta R.T.: -0.007 mi
Response: 1474399
Conc: 10.17 ug/m

Instrument :
FID_F
ClientSampleId :
10 PPM AROMATIC HC STD4

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF102124AR\
Data File : FF014717.D
Signal(s) : FID2B.ch
Acq On : 21 Oct 2024 21:06
Sample : 10 PPM AROMATIC HC STD4
Misc :
ALS Vial : 24 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 102124.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	4.596	4.536	4.649	BB	164953	1581107	94.02%	4.849%
2	6.258	6.216	6.286	BV	180496	1663535	98.92%	5.102%
3	7.351	7.284	7.379	BB	173151	1681678	100.00%	5.157%
4	7.976	7.919	8.036	BB	152152	1450237	86.24%	4.448%
5	8.649	8.614	8.674	BV	169696	1634346	97.19%	5.012%
6	8.848	8.814	8.874	BB	96702	981036	58.34%	3.009%
7	8.948	8.916	8.978	BB	168739	1646332	97.90%	5.049%
8	9.735	9.679	9.777	BB	165560	1639759	97.51%	5.029%
9	11.139	11.026	11.182	BV	155726	1648803	98.05%	5.057%
10	11.213	11.182	11.242	VV	148892	1564215	93.02%	4.797%
11	11.911	11.821	11.956	BB	151286	1666218	99.08%	5.110%
12	12.956	12.921	12.989	VB	147174	1639390	97.49%	5.028%
13	13.254	13.181	13.282	BV	148230	1618486	96.24%	4.964%
14	15.130	15.064	15.150	BV	128083	1574128	93.60%	4.828%
15	15.172	15.150	15.226	VB	139464	1600933	95.20%	4.910%
16	16.682	16.602	16.698	BV	125261	1575119	93.66%	4.831%
17	16.714	16.698	16.766	VV	127700	1494739	88.88%	4.584%
18	17.062	16.989	17.099	BB	127985	1546643	91.97%	4.743%
19	18.427	18.386	18.447	VV	110207	1399570	83.22%	4.292%
20	18.470	18.447	18.512	VB	115346	1526488	90.77%	4.681%
21	18.682	18.602	18.717	BV	116658	1474399	87.67%	4.522%
			Sum of corrected areas:			32607162		

Aromatic EPH 102124.M Tue Oct 22 04:22:37 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:	21 Oct 2024 21:36
Client Sample ID:		Operator:	YP\AJ
Data file:	FF014718.D	Misc:	
Instrument:	FID_F	ALS Vial:	25
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aromatic C10-C12	4.497	6.360	1646729.000	10.000	ug/ml
Aromatic C12-C16	6.361	9.050	2531591.000	15.000	ug/ml
Aromatic C16-C21	9.051	13.357	3286587.000	20.000	ug/ml
Aromatic C21-C36	13.358	18.791	7117725.000	45.000	ug/ml
Aromatic EPH	4.497	18.791	14582632.000	90.000	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF102124AR\
Data File : FF014718.D
Signal(s) : FID2B.ch
Acq On : 21 Oct 2024 21:36
Operator : YP\AJ
Sample : 5 PPM AROMATIC HC STD5
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
5 PPM AROMATIC HC STD5

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 10/22/2024
Supervised By :Ankita Jodhani 10/22/2024

Integration File: autoint1.e
Quant Time: Oct 22 04:10:40 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 102124.M
Quant Title : GC Extractables
QLast Update : Tue Oct 22 04:07:29 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...	7.977	751972	5.327 ug/ml
Spiked Amount	50.000		Recovery =	10.65%
6) S	2-Flurobiphenyl (SURR)	8.847	497720	5.202 ug/ml
Spiked Amount	50.000 Range	0 - 131	Recovery =	10.40%
11) S	ortho-Terphenyl (SURR)	11.910	858884	5.303 ug/ml
Spiked Amount	50.000		Recovery =	10.61%
	Target Compounds			
1) T	1,2,3-Trimethylbenzen...	4.596	802686	5.199 ug/ml
2) T	Naphthalene (C11.7)	6.258	844043	5.195 ug/ml
3) T	2-Methylnaphthalene (...	7.350	850502	5.165 ug/ml
5) T	Acenaphthylene (C15.06)	8.648	839093	5.209 ug/ml
7) T	Acenaphthene (C15.5)	8.948	841996	5.237 ug/ml
8) T	Flouorene (C16.55)	9.735	836283	5.229 ug/ml
9) T	Phenanthrene (C19.36)	11.137	825725	5.167 ug/mlm
10) T	Anthracene (C19.43)	11.212	797839	5.227 ug/ml
12) T	Fluoranthene (C21.85)	12.954	840481	5.263 ug/ml
13) T	Pyrene (C20.8)	13.253	826740	5.224 ug/ml
14) T	Benzo[a]anthracene (C...	15.127	805162	5.225 ug/ml
15) T	Chrysene (C27.41)	15.169	831586	5.323 ug/ml
16) T	benzo[b]fluoranthene ...	16.680	805805	5.207 ug/ml
17) T	Bnezo[k]fluoranthene ...	16.712	774334	5.312 ug/ml
18) T	Benzo[a]pyrene (C31.34)	17.059	791992	5.234 ug/ml
19) T	Indeno[1,2,3-cd]pyren...	18.425	712044	5.161 ug/ml
20) T	Dibenz[a,h]anthracene...	18.467	805632	5.492 ug/ml
21) T	Benzo[g,h,i]perylene ...	18.679	750689	5.176 ug/ml

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

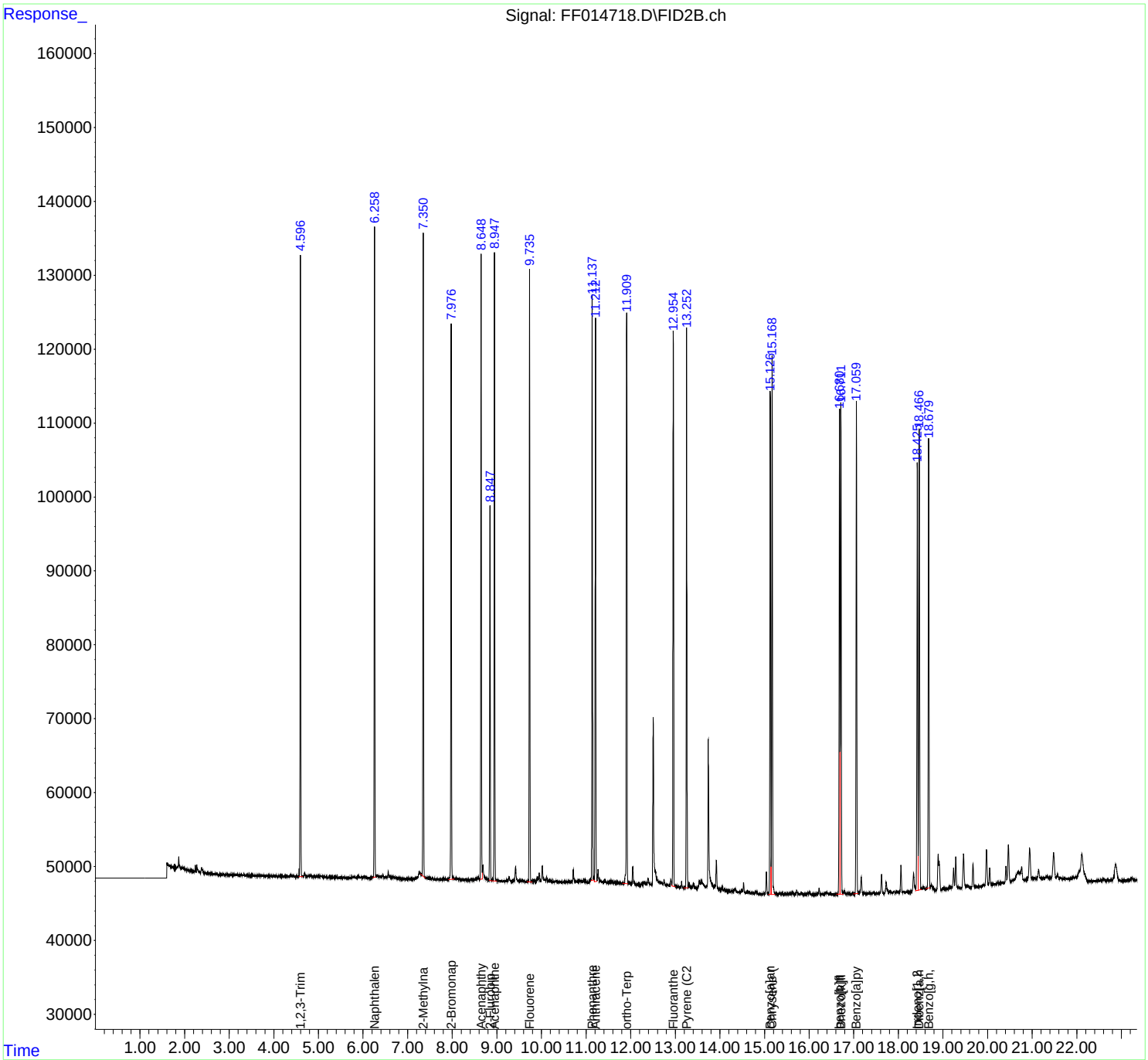
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF102124AR\
Data File : FF014718.D
Signal(s) : FID2B.ch
Acq On : 21 Oct 2024 21:36
Operator : YP\AJ
Sample : 5 PPM AROMATIC HC STD5
Misc :
ALS Vial : 25 Sample Multiplier: 1

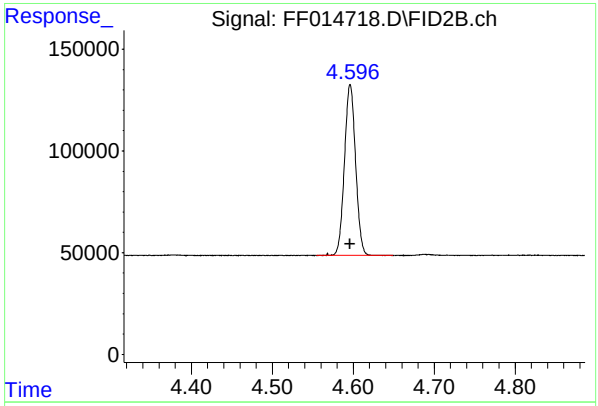
Integration File: autoint1.e
Quant Time: Oct 22 04:10:40 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 102124.M
Quant Title : GC Extractables
QLast Update : Tue Oct 22 04:07:29 2024
Response via : Initial Calibration
Integrator: ChemStation

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

Instrument :
FID_F
ClientSampleId :
5 PPM AROMATIC HC STD5

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 10/22/2024
Supervised By :Ankita Jodhani 10/22/2024





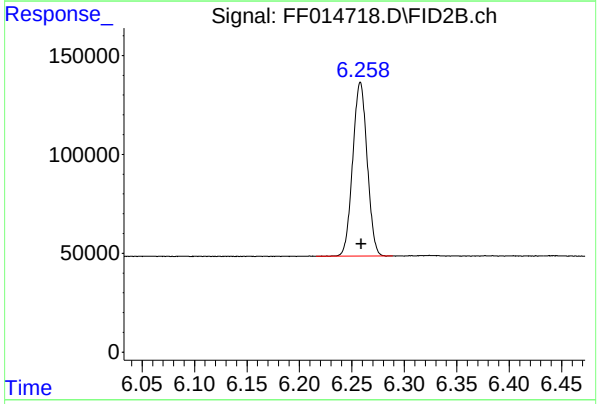
#1 1,2,3-Trimethylbenzene (C10.1)

R.T.: 4.596 min
Delta R.T.: 0.000 min
Response: 802686
Conc: 5.20 ug/ml

Instrument :
FID_F
ClientSampleId :
5 PPM AROMATIC HC STD5

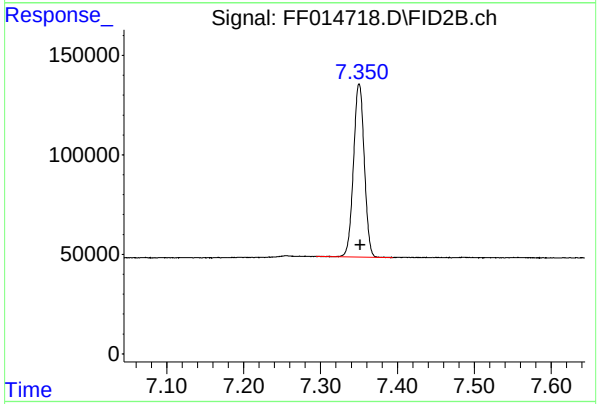
Manual Integrations APPROVED

Reviewed By :Yogesh Patel 10/22/2024
Supervised By :Ankita Jodhani 10/22/2024



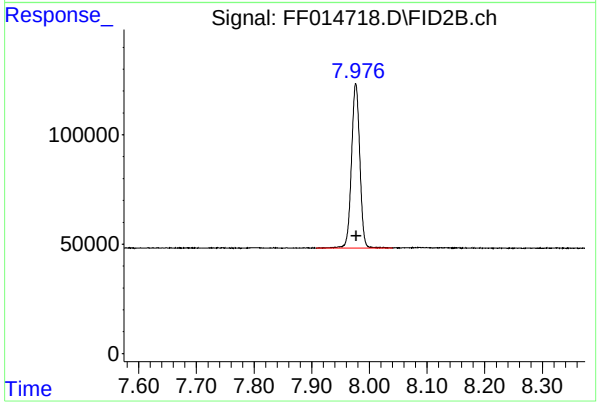
#2 Naphthalene (C11.7)

R.T.: 6.258 min
Delta R.T.: 0.000 min
Response: 844043
Conc: 5.19 ug/ml



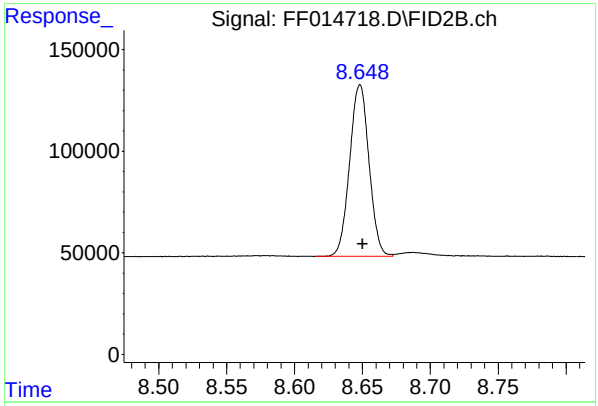
#3 2-Methylnaphthalene (C12.89)

R.T.: 7.350 min
Delta R.T.: -0.001 min
Response: 850502
Conc: 5.17 ug/ml



#4 2-Bromonaphthalene (SURR)

R.T.: 7.977 min
Delta R.T.: 0.000 min
Response: 751972
Conc: 5.33 ug/ml



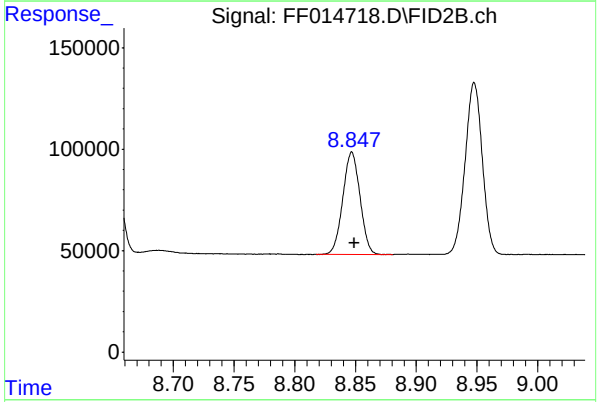
#5 Acenaphthylene (C15.06)

R.T.: 8.648 min
Delta R.T.: -0.002 min
Response: 839093
Conc: 5.21 ug/ml

Instrument :
FID_F
ClientSampleId :
5 PPM AROMATIC HC STD5

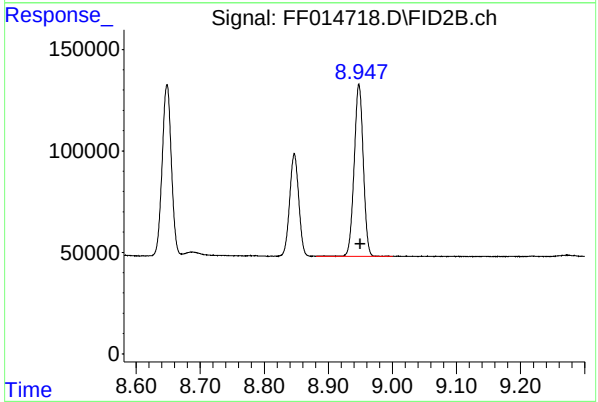
Manual Integrations APPROVED

Reviewed By :Yogesh Patel 10/22/2024
Supervised By :Ankita Jodhani 10/22/2024



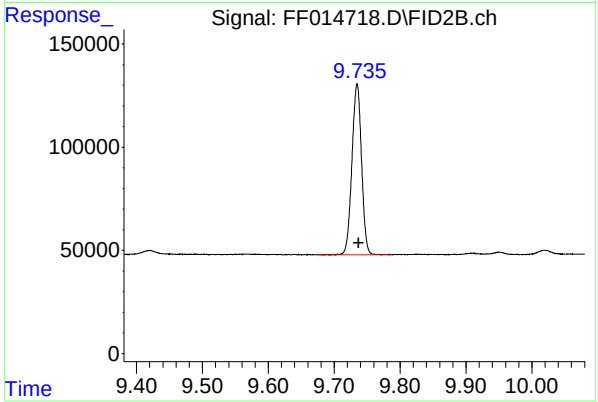
#6 2-Flurobiphenyl (SURR)

R.T.: 8.847 min
Delta R.T.: -0.002 min
Response: 497720
Conc: 5.20 ug/ml



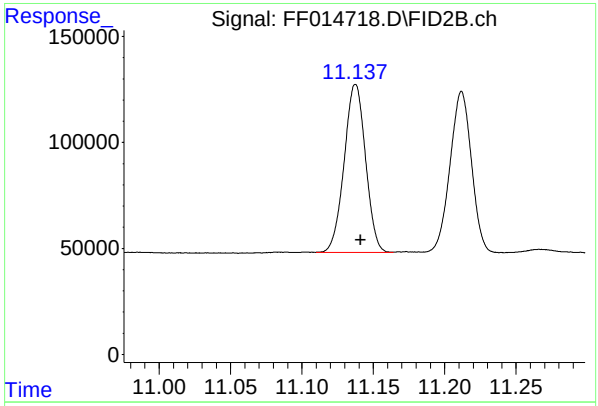
#7 Acenaphthene (C15.5)

R.T.: 8.948 min
Delta R.T.: -0.002 min
Response: 841996
Conc: 5.24 ug/ml



#8 Flouorene (C16.55)

R.T.: 9.735 min
Delta R.T.: -0.002 min
Response: 836283
Conc: 5.23 ug/ml



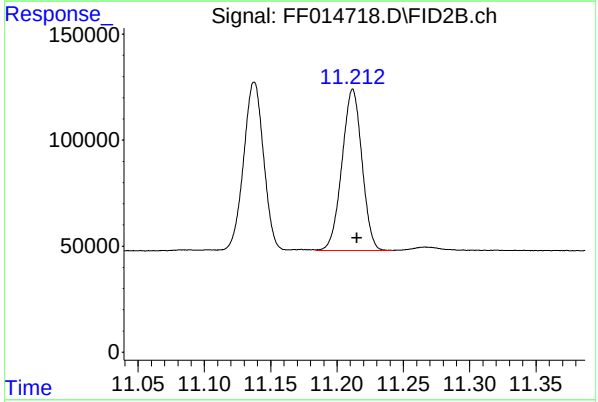
#9 Phenanthrene (C19.36)

R.T.: 11.137 min
Delta R.T.: -0.004 min
Response: 825725
Conc: 5.17 ug/ml

Instrument :
FID_F
ClientSampleId :
5 PPM AROMATIC HC STD5

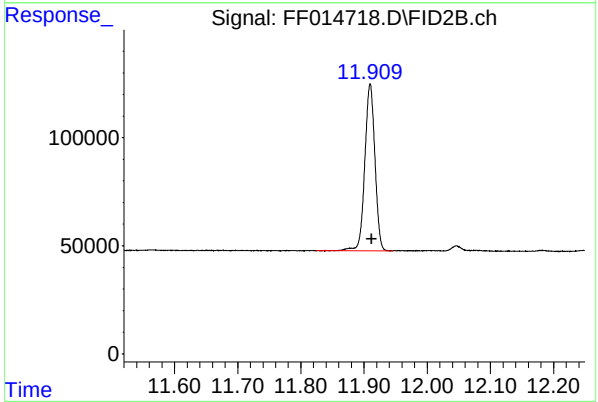
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/22/2024
Supervised By :Ankita Jodhani 10/22/2024



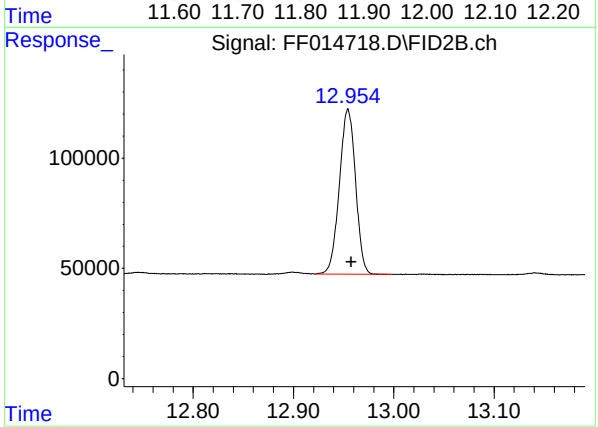
#10 Anthracene (C19.43)

R.T.: 11.212 min
Delta R.T.: -0.003 min
Response: 797839
Conc: 5.23 ug/ml



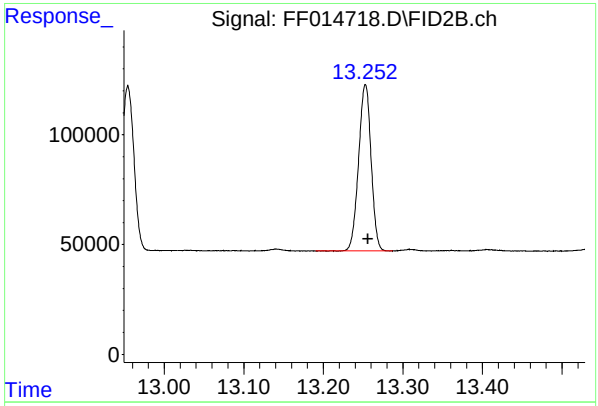
#11 ortho-Terphenyl (SURR)

R.T.: 11.910 min
Delta R.T.: -0.002 min
Response: 858884
Conc: 5.30 ug/ml



#12 Fluoranthene (C21.85)

R.T.: 12.954 min
Delta R.T.: -0.003 min
Response: 840481
Conc: 5.26 ug/ml



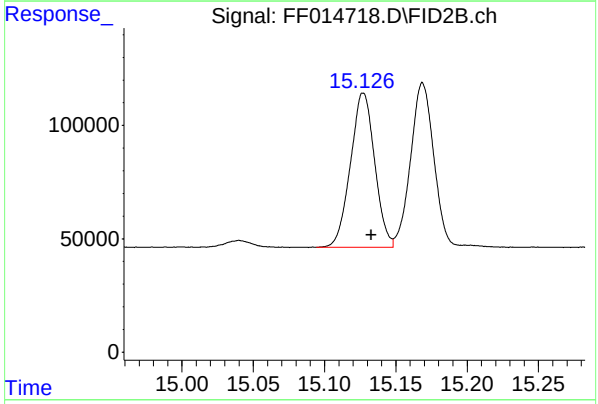
#13 Pyrene (C20.8)

R.T.: 13.253 min
Delta R.T.: -0.003 min
Response: 826740
Conc: 5.22 ug/ml

Instrument :
FID_F
ClientSampleId :
5 PPM AROMATIC HC STD5

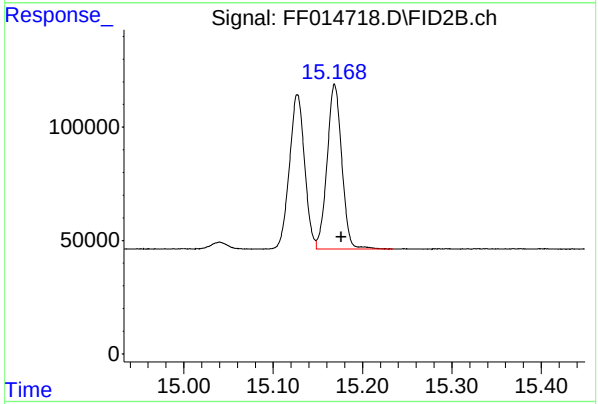
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/22/2024
Supervised By :Ankita Jodhani 10/22/2024



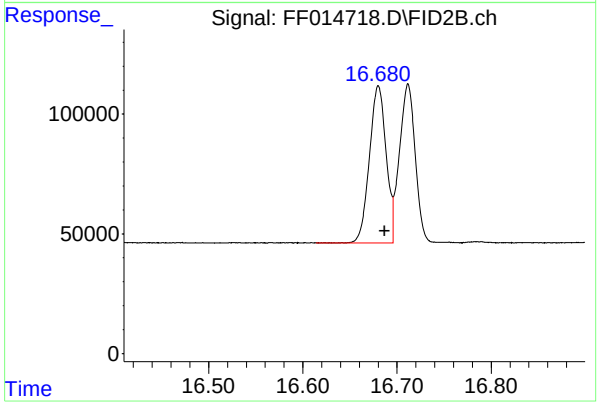
#14 Benzo[a]anthracene (C26.37)

R.T.: 15.127 min
Delta R.T.: -0.006 min
Response: 805162
Conc: 5.23 ug/ml



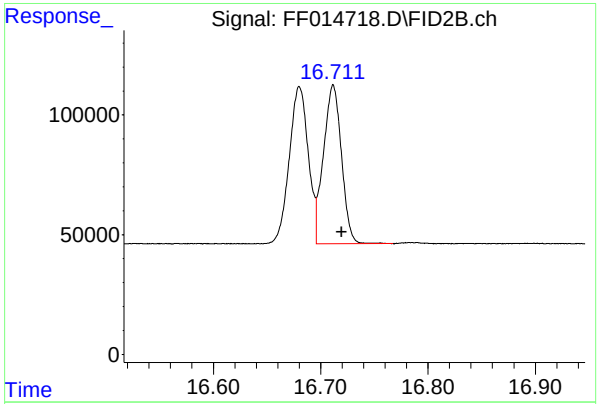
#15 Chrysene (C27.41)

R.T.: 15.169 min
Delta R.T.: -0.007 min
Response: 831586
Conc: 5.32 ug/ml



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

R.T.: 16.680 min
Delta R.T.: -0.006 min
Response: 805805
Conc: 5.21 ug/ml



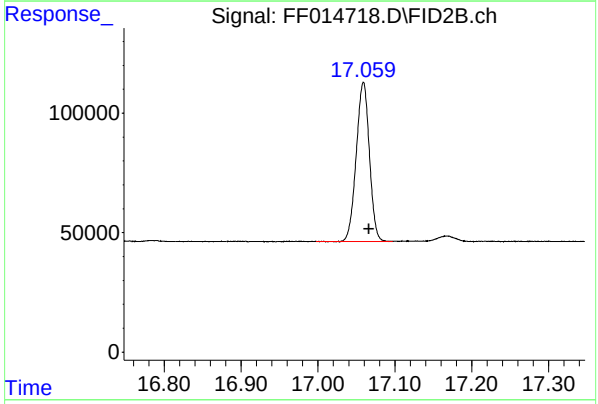
#17 Bnezo[k]fluoranthene (C30.14)

R.T.: 16.712 min
Delta R.T.: -0.008 min
Response: 774334
Conc: 5.31 ug/ml

Instrument :
FID_F
ClientSampleId :
5 PPM AROMATIC HC STD5

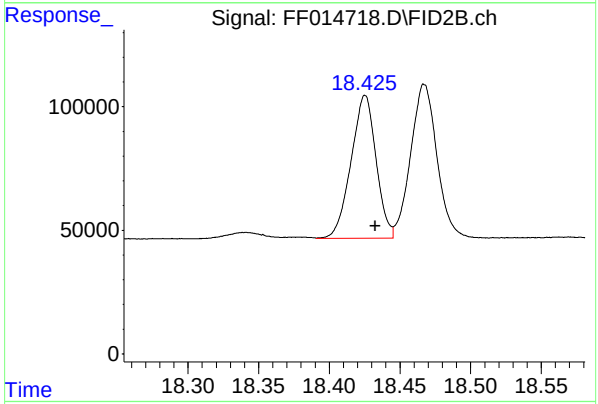
Manual Integrations APPROVED

Reviewed By :Yogesh Patel 10/22/2024
Supervised By :Ankita Jodhani 10/22/2024



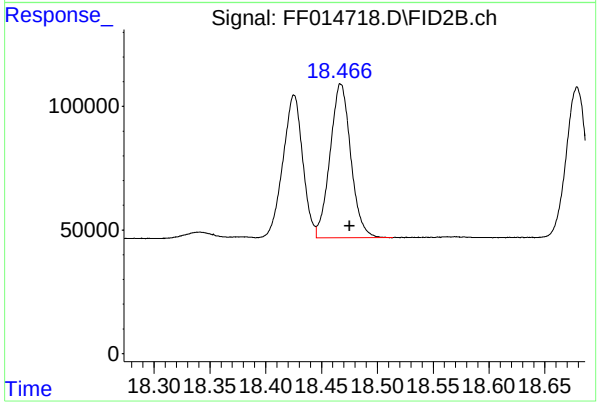
#18 Benzo[a]pyrene (C31.34)

R.T.: 17.059 min
Delta R.T.: -0.007 min
Response: 791992
Conc: 5.23 ug/ml



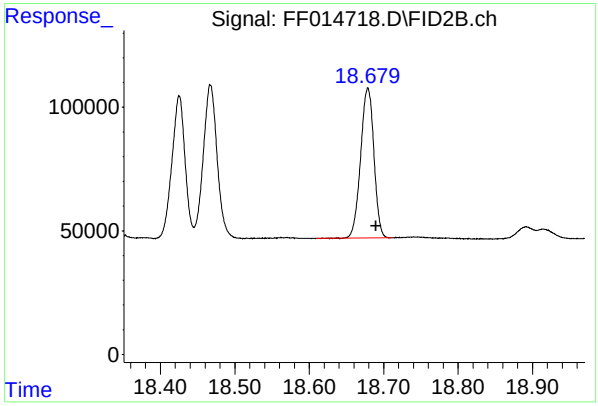
#19 Indeno[1,2,3-cd]pyrene (C35.01)

R.T.: 18.425 min
Delta R.T.: -0.007 min
Response: 712044
Conc: 5.16 ug/ml



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

R.T.: 18.467 min
Delta R.T.: -0.008 min
Response: 805632
Conc: 5.49 ug/ml



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

R.T.: 18.679 min
Delta R.T.: -0.011 mir
Response: 750689
Conc: 5.18 ug/m

Instrument :
FID_F
ClientSampleId :
5 PPM AROMATIC HC STD5

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/22/2024
Supervised By :Ankita Jodhani 10/22/2024

Instrument :
FID_F
LabSampleId :
5 PPM AROMATIC HC STD5

rteres

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 10/22/2024
Supervised By :Ankita Jodhani 10/22/2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF10212
Data File : FF014718.D
Signal(s) : FID2B.ch
Acq On : 21 Oct 2024 21:36
Sample : 5 PPM AROMATIC HC STD5
Misc :
ALS Vial : 25 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 102124.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	4.596	4.554	4.649	BB	84078	802686	93.46%	4.804%
2	6.258	6.216	6.289	BB	87760	844043	98.27%	5.051%
3	7.350	7.294	7.394	BB	87055	850502	99.02%	5.090%
4	7.977	7.907	8.041	BB	75248	751972	87.55%	4.500%
5	8.648	8.616	8.672	BV	84273	839093	97.70%	5.022%
6	8.847	8.817	8.881	BV	50640	497720	57.95%	2.979%
7	8.948	8.881	9.001	PB	84880	841996	98.03%	5.039%
8	9.735	9.672	9.789	BB	82701	836283	97.37%	5.005%
9	11.138	11.039	11.184	BV	79585	843358	98.19%	5.047%
10	11.212	11.184	11.242	VV	76298	797839	92.89%	4.775%
11	11.910	11.824	11.946	BB	77171	858884	100.00%	5.140%
12	12.954	12.922	12.999	VB	74792	840481	97.86%	5.030%
13	13.253	13.191	13.287	BV	75858	826740	96.26%	4.948%
14	15.127	15.094	15.148	BV	68071	805162	93.75%	4.819%
15	15.169	15.148	15.234	VB	72641	831586	96.82%	4.977%
16	16.680	16.614	16.696	BV	65467	805805	93.82%	4.823%
17	16.712	16.696	16.767	VB	66416	774334	90.16%	4.634%
18	17.059	16.997	17.097	BB	66732	791992	92.21%	4.740%
19	18.425	18.391	18.445	VV	57933	712044	82.90%	4.261%
20	18.467	18.445	18.514	VB	62118	805632	93.80%	4.822%
21	18.679	18.609	18.712	BV	60868	750689	87.40%	4.493%

Sum of corrected areas: 16708841

Aromatic EPH 102124.M Tue Oct 22 04:23:05 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:	21 Oct 2024 22:04
Client Sample ID:	20 PPM AROMATIC HC S	Operator:	YP\AJ
Data file:	FF014719.D	Misc:	
Instrument:	FID_F	ALS Vial:	26
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.497	6.360	6262410	40.121	200	ug/ml
Aromatic C12-C16	6.361	9.050	9582642	60.034	300	ug/ml
Aromatic C16-C21	9.051	13.357	15600086	100.396	500	ug/ml
Aromatic C21-C36	13.358	18.791	23431217	157.845	800	ug/ml
Aromatic EPH	4.497	18.791	54876355	358.396		ug/ml
ortho-Terphenyl (SURR)	11.912	11.912	3191703	19.95		ug/ml
2-Bromonaphthalene (SURR)	7.978	7.978	2776289	19.91		ug/ml
2-Flurobiphenyl (SURR)	8.849	8.849	1892293	20.06		ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF102124AR\
Data File : FF014719.D
Signal(s) : FID2B.ch
Acq On : 21 Oct 2024 22:04
Operator : YP\AJ
Sample : 20 PPM AROMATIC HC STD ICV
Misc :
ALS Vial : 26 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
20 PPM AROMATIC HC STD ICV

Integration File: autoint1.e
Quant Time: Oct 22 04:15:55 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 102124.M
Quant Title : GC Extractables
QLast Update : Tue Oct 22 04:14:53 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...	7.978	2776289	19.910	ug/ml
Spiked Amount	50.000		Recovery =	39.82%	
6)	S 2-Flurobiphenyl (SURR)	8.849	1892293	20.065	ug/ml
Spiked Amount	50.000 Range	0 - 131	Recovery =	40.13%	
11)	S ortho-Terphenyl (SURR)	11.912	3191703	19.951	ug/ml
Spiked Amount	50.000		Recovery =	39.90%	
	Target Compounds				
1)	T 1,2,3-Trimethylbenzen...	4.596	3050856	20.057	ug/ml
2)	T Naphthalene (C11.7)	6.259	3211554	20.065	ug/ml
3)	T 2-Methylnaphthalene (...	7.352	3244103	20.053	ug/ml
5)	T Acenaphthylene (C15.06)	8.650	3162850	19.966	ug/ml
7)	T Acenaphthene (C15.5)	8.950	3175689	20.015	ug/ml
8)	T Flouorene (C16.55)	9.737	3160304	20.030	ug/ml
9)	T Phenanthrene (C19.36)	11.141	3163146	20.093	ug/ml
10)	T Anthracene (C19.43)	11.215	3012139	20.024	ug/ml
12)	T Fluoranthene (C21.85)	12.958	3147285	19.971	ug/ml
13)	T Pyrene (C20.8)	13.256	3117212	19.992	ug/ml
14)	T Benzo[a]anthracene (C...	15.133	3034910	19.972	ug/ml
15)	T Chrysene (C27.41)	15.176	3075903	19.903	ug/ml
16)	T benzo[b]fluoranthene ...	16.687	3046400	19.926	ug/ml
17)	T Bnezo[k]fluoranthene ...	16.721	2864884	19.831	ug/ml
18)	T Benzo[a]pyrene (C31.34)	17.067	2973860	19.923	ug/ml
19)	T Indeno[1,2,3-cd]pyren...	18.434	2713257	19.783	ug/ml
20)	T Dibenz[a,h]anthracene...	18.475	2872951	19.776	ug/ml
21)	T Benzo[g,h,i]perylene ...	18.690	2849052	19.942	ug/ml

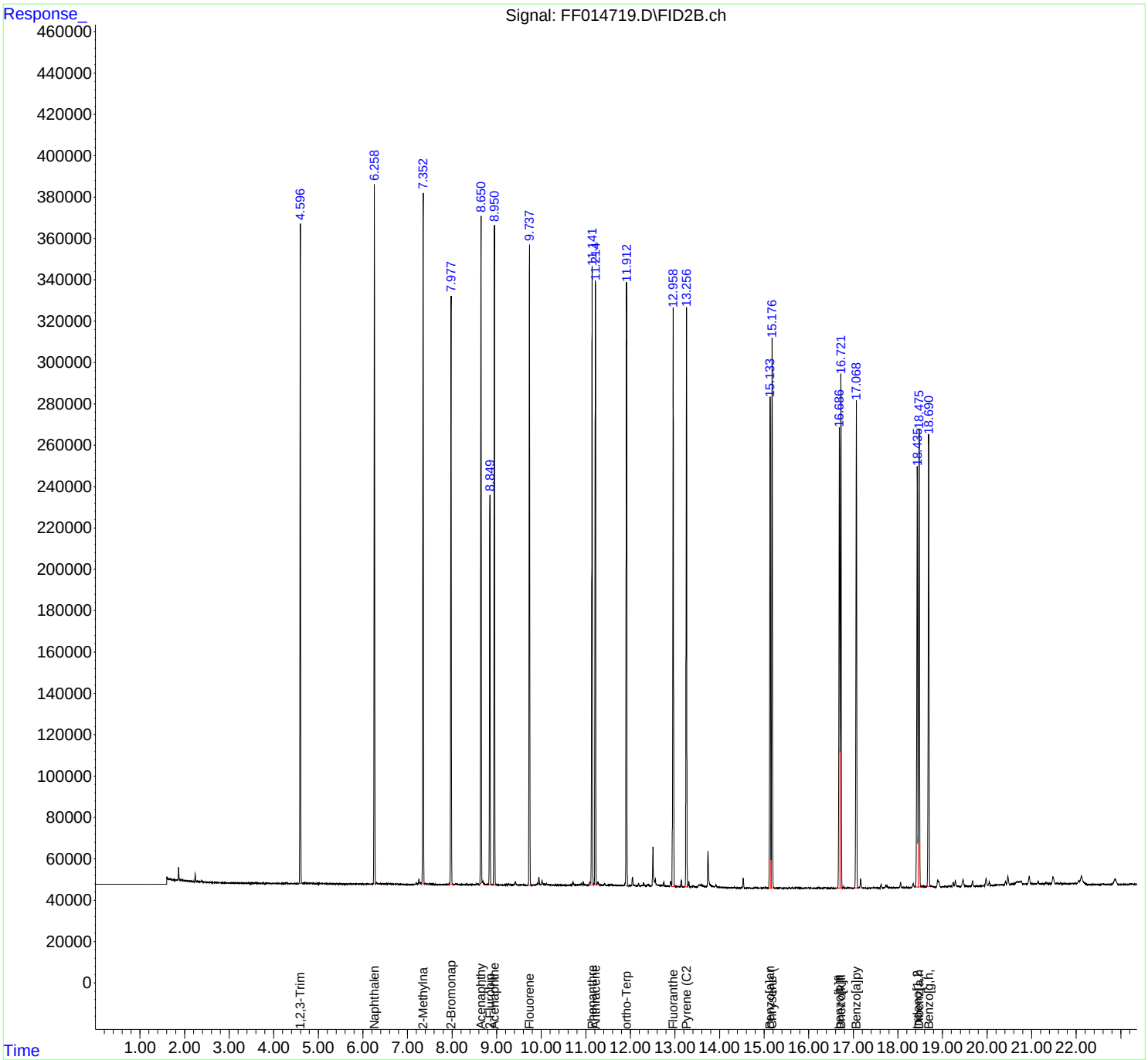
(f)=RT Delta > 1/2 Window (m)=manual int.

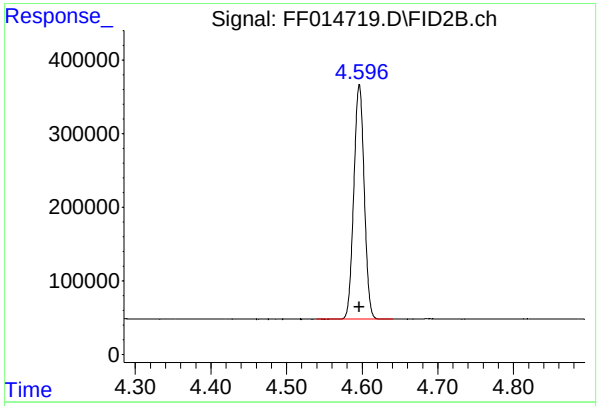
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF102124AR\
Data File : FF014719.D
Signal(s) : FID2B.ch
Acq On : 21 Oct 2024 22:04
Operator : YP\AJ
Sample : 20 PPM AROMATIC HC STD ICV
Misc :
ALS Vial : 26 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
20 PPM AROMATIC HC STD ICV

Integration File: autoint1.e
Quant Time: Oct 22 04:15:55 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 102124.M
Quant Title : GC Extractables
QLast Update : Tue Oct 22 04:14:53 2024
Response via : Initial Calibration
Integrator: ChemStation

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

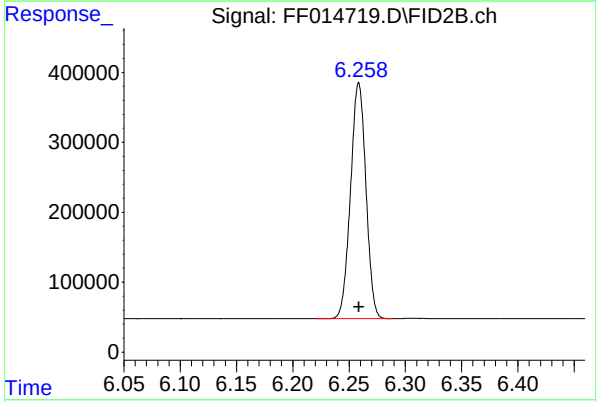




#1 1,2,3-Trimethylbenzene (C10.1)

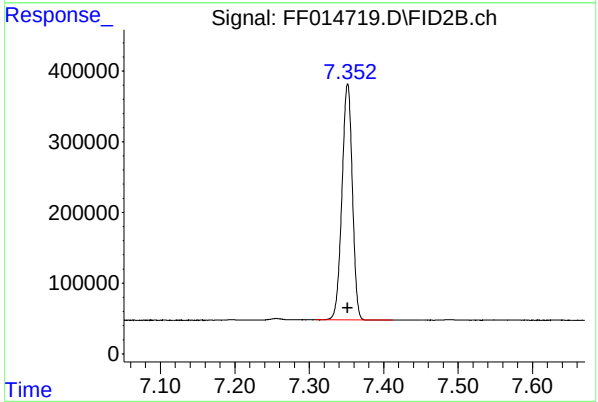
R.T.: 4.596 min
Delta R.T.: 0.000 min
Response: 3050856
Conc: 20.06 ug/ml

Instrument :
FID_F
ClientSampleId :
20 PPM AROMATIC HC STD ICV



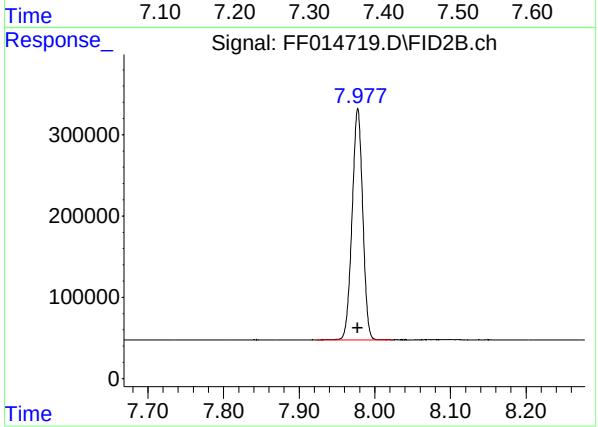
#2 Naphthalene (C11.7)

R.T.: 6.259 min
Delta R.T.: 0.000 min
Response: 3211554
Conc: 20.06 ug/ml



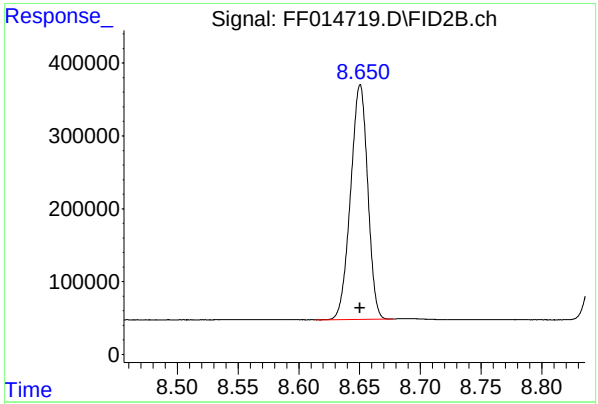
#3 2-Methylnaphthalene (C12.89)

R.T.: 7.352 min
Delta R.T.: 0.000 min
Response: 3244103
Conc: 20.05 ug/ml



#4 2-Bromonaphthalene (SURR)

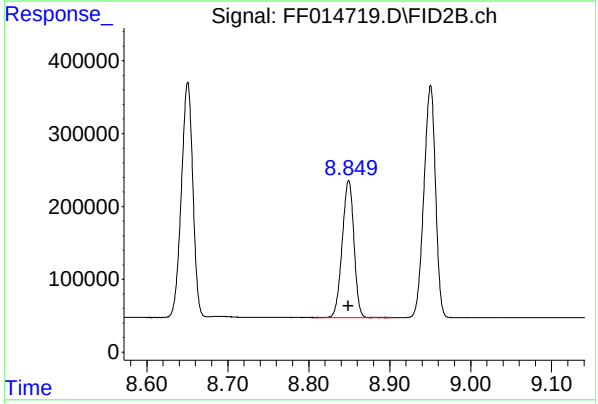
R.T.: 7.978 min
Delta R.T.: 0.000 min
Response: 2776289
Conc: 19.91 ug/ml



#5 Acenaphthylene (C15.06)

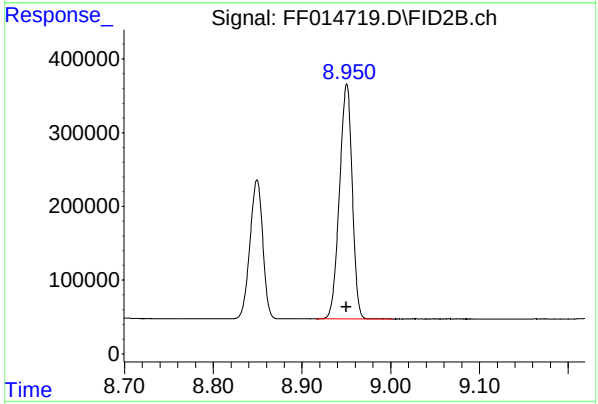
R.T.: 8.650 min
Delta R.T.: 0.000 min
Response: 3162850
Conc: 19.97 ug/ml

Instrument :
FID_F
ClientSampleId :
20 PPM AROMATIC HC STD ICV



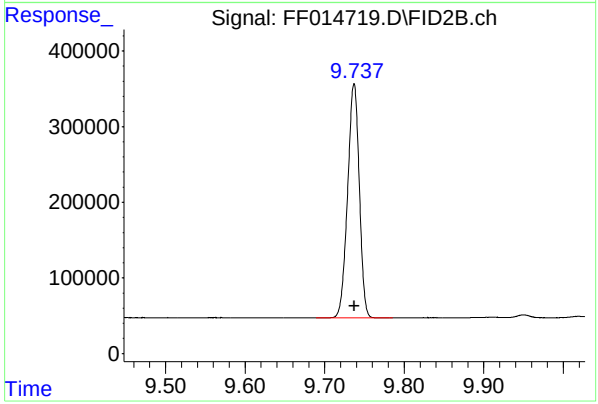
#6 2-Flurobiphenyl (SURR)

R.T.: 8.849 min
Delta R.T.: 0.000 min
Response: 1892293
Conc: 20.06 ug/ml



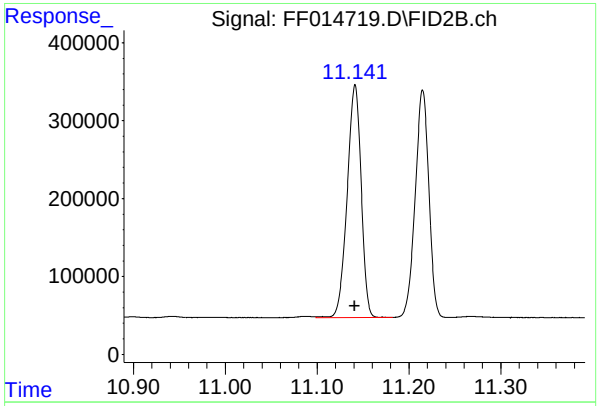
#7 Acenaphthene (C15.5)

R.T.: 8.950 min
Delta R.T.: 0.000 min
Response: 3175689
Conc: 20.01 ug/ml



#8 Flouorene (C16.55)

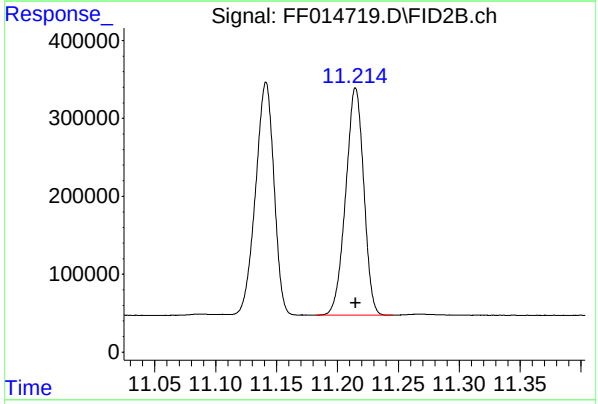
R.T.: 9.737 min
Delta R.T.: 0.000 min
Response: 3160304
Conc: 20.03 ug/ml



#9 Phenanthrene (C19.36)

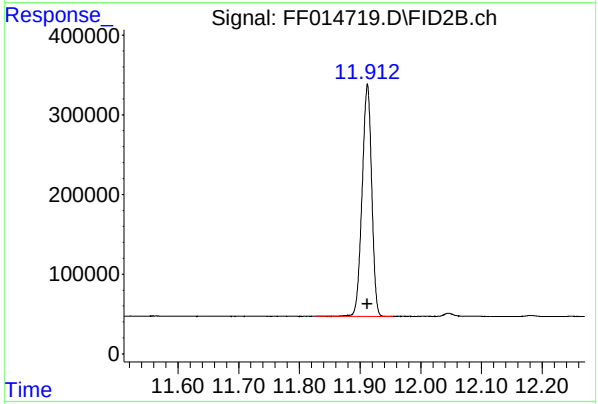
R.T.: 11.141 min
Delta R.T.: 0.000 min
Response: 3163146
Conc: 20.09 ug/ml

Instrument :
FID_F
ClientSampleId :
20 PPM AROMATIC HC STD ICV



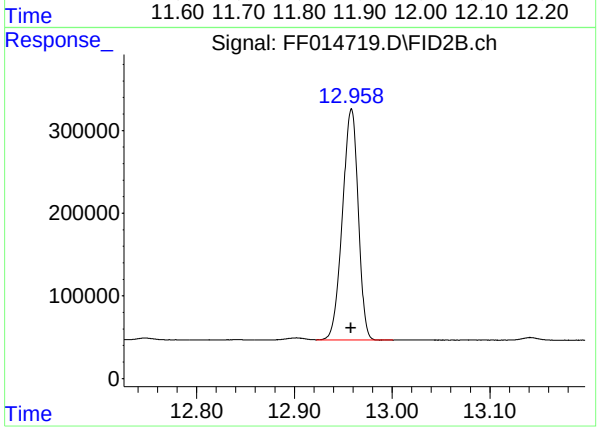
#10 Anthracene (C19.43)

R.T.: 11.215 min
Delta R.T.: 0.000 min
Response: 3012139
Conc: 20.02 ug/ml



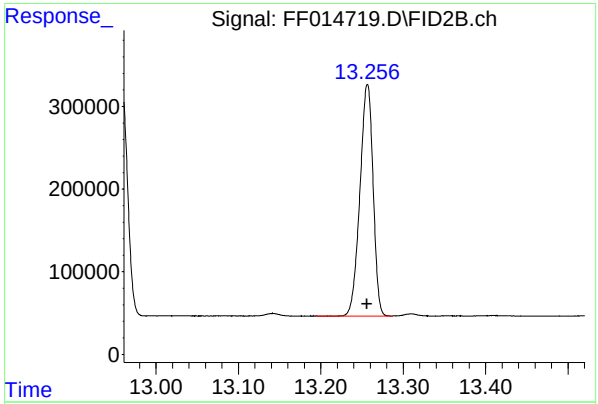
#11 ortho-Terphenyl (SURR)

R.T.: 11.912 min
Delta R.T.: 0.000 min
Response: 3191703
Conc: 19.95 ug/ml



#12 Fluoranthene (C21.85)

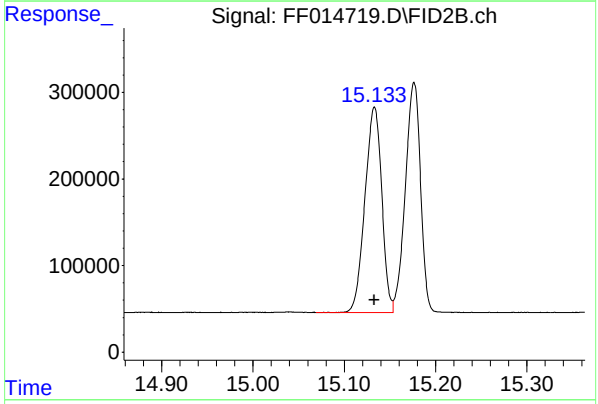
R.T.: 12.958 min
Delta R.T.: 0.000 min
Response: 3147285
Conc: 19.97 ug/ml



#13 Pyrene (C20.8)

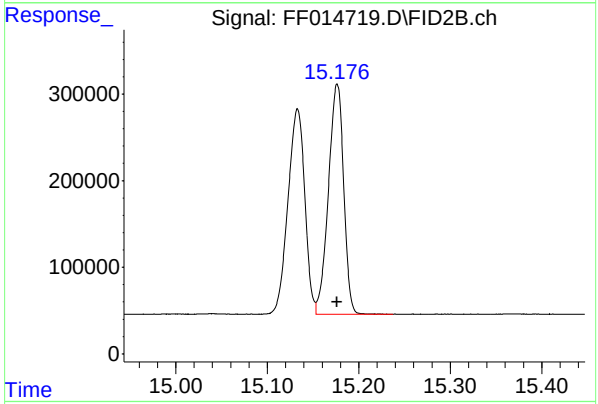
R.T.: 13.256 min
Delta R.T.: 0.000 min
Response: 3117212
Conc: 19.99 ug/ml

Instrument :
FID_F
ClientSampleId :
20 PPM AROMATIC HC STD ICV



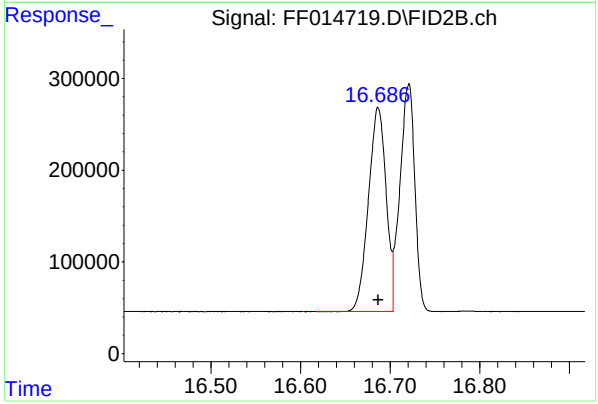
#14 Benzo[a]anthracene (C26.37)

R.T.: 15.133 min
Delta R.T.: 0.000 min
Response: 3034910
Conc: 19.97 ug/ml



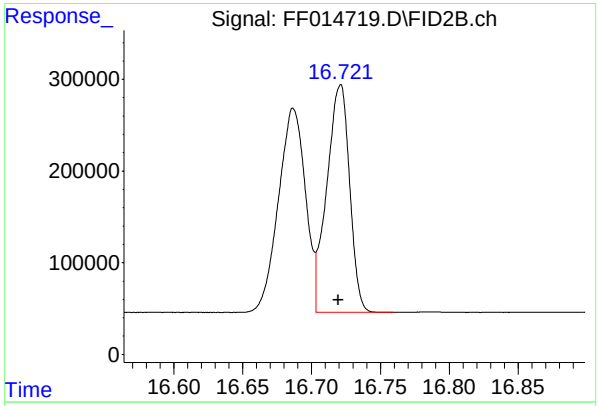
#15 Chrysene (C27.41)

R.T.: 15.176 min
Delta R.T.: 0.000 min
Response: 3075903
Conc: 19.90 ug/ml



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

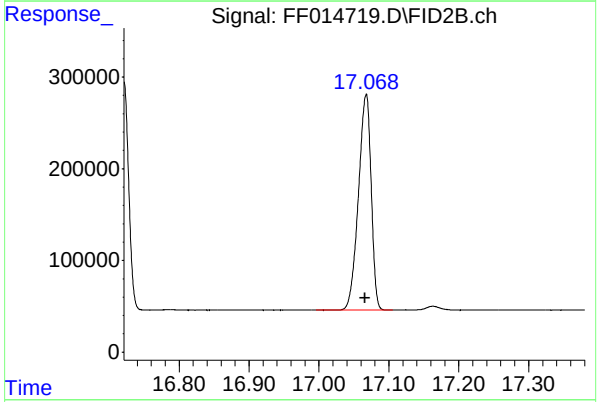
R.T.: 16.687 min
Delta R.T.: 0.000 min
Response: 3046400
Conc: 19.93 ug/ml



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

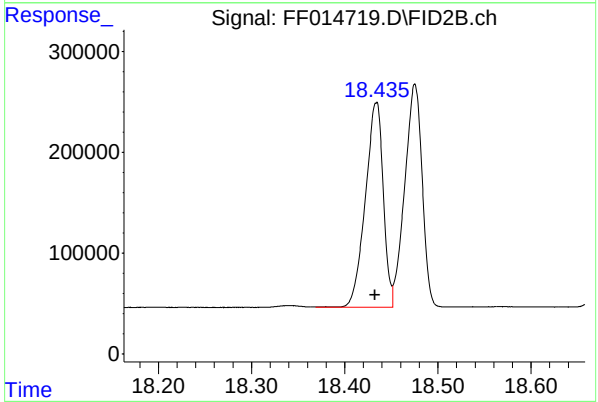
R.T.: 16.721 min
Delta R.T.: 0.000 min
Response: 2864884
Conc: 19.83 ug/ml

Instrument :
FID_F
ClientSampleId :
20 PPM AROMATIC HC STD ICV



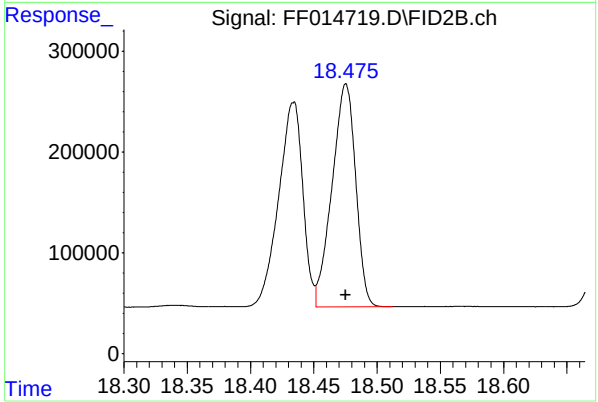
#18 Benzo[a]pyrene (C31.34)

R.T.: 17.067 min
Delta R.T.: 0.001 min
Response: 2973860
Conc: 19.92 ug/ml



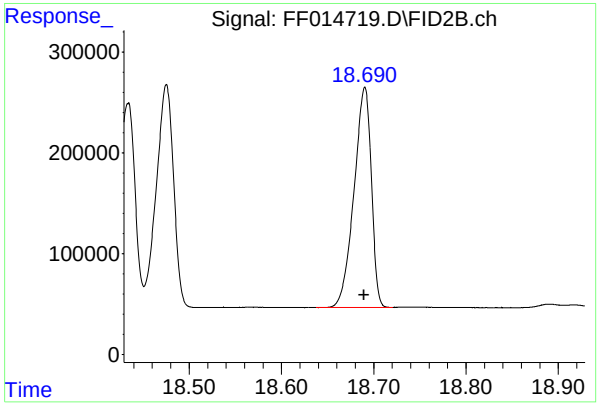
#19 Indeno[1,2,3-cd]pyrene (C35.01)

R.T.: 18.434 min
Delta R.T.: 0.001 min
Response: 2713257
Conc: 19.78 ug/ml



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

R.T.: 18.475 min
Delta R.T.: 0.000 min
Response: 2872951
Conc: 19.78 ug/ml



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

R.T.: 18.690 min
Delta R.T.: 0.000 mi
Response: 2849052
Conc: 19.94 ug/m

Instrument :
FID_F
ClientSampleId :
20 PPM AROMATIC HC STD ICV

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF102124AR\
Data File : FF014719.D
Signal(s) : FID2B.ch
Acq On : 21 Oct 2024 22:04
Sample : 20 PPM AROMATIC HC STD ICV
Misc :
ALS Vial : 26 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 102124.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	4.596	4.539	4.641	BB	318441	3050856	94.04%	4.863%
2	6.259	6.221	6.289	BV	337684	3211554	99.00%	5.119%
3	7.352	7.309	7.412	BB	335491	3244103	100.00%	5.171%
4	7.978	7.922	8.024	BB	284385	2776289	85.58%	4.425%
5	8.650	8.614	8.677	BV	323106	3162850	97.50%	5.041%
6	8.849	8.809	8.904	BB	188482	1892293	58.33%	3.016%
7	8.950	8.916	9.002	BB	320085	3175689	97.89%	5.062%
8	9.737	9.689	9.786	BB	310476	3160304	97.42%	5.037%
9	11.141	11.099	11.182	VV	299054	3163146	97.50%	5.042%
10	11.215	11.182	11.246	VV	291658	3012139	92.85%	4.801%
11	11.912	11.827	11.954	BB	292247	3191703	98.38%	5.087%
12	12.958	12.922	13.001	VB	279003	3147285	97.02%	5.017%
13	13.256	13.194	13.287	BV	280806	3117212	96.09%	4.969%
14	15.133	15.069	15.153	BV	237442	3034910	93.55%	4.838%
15	15.176	15.153	15.237	VB	266163	3075903	94.82%	4.903%
16	16.687	16.617	16.703	BV	221819	3046400	93.91%	4.856%
17	16.721	16.703	16.759	VB	248061	2864884	88.31%	4.567%
18	17.067	16.996	17.106	BB	235264	2973860	91.67%	4.740%
19	18.434	18.369	18.452	VV	203019	2713257	83.64%	4.325%
20	18.475	18.452	18.512	VB	221794	2872951	88.56%	4.579%
21	18.690	18.637	18.721	BV	219349	2849052	87.82%	4.541%
			Sum of corrected areas:			62736637		

Aromatic EPH 102124.M Tue Oct 22 04:23:39 2024

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

Inital Calibration Report for SequenceID : FG102124AL

AreaCount

Parameter Range	FG014471.D	FG014472.D	FG014473.D	FG014474.D	FG014475.D	
Aliphatic C9-C12	36516747.000	18800719.000	7794944.000	4158290.000	2116796.000	
Aliphatic C12-C16	25034058.000	12947906.000	5357288.000	2878177.000	1466193.000	
Aliphatic C16-C21	38598823.000	19644786.000	8203721.000	4584276.000	2356311.000	
Aliphatic C21-C28	50615746.000	25217511.000	10709184.000	6230052.000	3213254.000	
Aliphatic C28-C40	55737822.000	28276085.000	12112197.000	7049393.000	3685801.000	
Aliphatic EPH	206503196.000	104887007.000	44177334.000	24900188.000	12838355.000	

AVG Response Factor

Parameter Range	AVG RF	% RSD				
Aliphatic C9-C12	131341.1499996	6.359				
Aliphatic C12-C16	135821.94	6.78				
Aliphatic C16-C21	141250.6533332	9.156				
Aliphatic C21-C28	140581.144	11.719				
Aliphatic C28-C40	105686.9756664	12.966				
Aliphatic EPH	126992.5399992	10.052				

Concentration

Parameter Range	FG014471.D	FG014472.D	FG014473.D	FG014474.D	FG014475.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	FG014471.D	FG014472.D	FG014473.D	FG014474.D	FG014475.D	
Aliphatic C9-C12	121722.490000	125338.126666	129915.733333	138609.666666	141119.733333	
Aliphatic C12-C16	125170.290000	129479.060000	133932.200000	143908.850000	146619.300000	
Aliphatic C16-C21	128662.743333	130965.240000	136728.683333	152809.200000	157087.400000	

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Fax : 908 789 8922

Inital Calibration Report for SequenceID : FG102124AL

Aliphatic C21-C28	126539.365000	126087.555000	133864.800000	155751.300000	160662.700000	
Aliphatic C28-C40	92896.370000	94253.616666	100934.975000	117489.883333	122860.033333	
Aliphatic EPH	114723.997777	116541.118888	122714.816666	138334.377777	142648.388888	

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

Lab Sample ID:	100 PPM ALIPHATIC HC	Acq On:	22 Oct 2024 00:58
Client Sample ID:		Operator:	YP\AJ
Data file:	FG014471.D	Misc:	
Instrument:	FID_G	ALS Vial:	31
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aliphatic C9-C12	3.247	6.872	36516747.000	300.000	ug/ml
Aliphatic C12-C16	6.873	10.317	25034058.000	200.000	ug/ml
Aliphatic C16-C21	10.318	13.691	38598823.000	300.000	ug/ml
Aliphatic C21-C28	13.692	17.354	50615746.000	400.000	ug/ml
Aliphatic C28-C40	17.355	22.301	55737822.000	600.000	ug/ml
Aliphatic EPH	3.247		206503196.000	1800.000	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG102124AL\
Data File : FG014471.D
Signal(s) : FID1A.ch
Acq On : 22 Oct 2024 00:58
Operator : YP\AJ
Sample : 100 PPM ALIPHATIC HC STD1
Misc :
ALS Vial : 31 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
100 PPM ALIPHATIC HC STD1

Integration File: autoint1.e
Quant Time: Oct 22 06:45:59 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 102124.M
Quant Title : GC Extractables
QLast Update : Tue Oct 22 06:44:46 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)	11.996	14096879	93.621 ug/ml
Spiked Amount	50.000		Recovery =	187.24%
12) S	1-chlorooctadecane (S...	13.431	11193276	94.567 ug/ml
Spiked Amount	50.000		Recovery =	189.13%
	Target Compounds			
1) T	n-Nonane (C9)	3.351	12005516	93.766 ug/ml
2) T	n-Decane (C10)	4.605	12211237	93.700 ug/ml
3) T	A~Naphthalene (C11.7)	6.313	13297129	93.734 ug/ml
4) T	n-Dodecane (C12)	6.778	12299994	93.616 ug/ml
5) T	A~2-methylnaphthalene...	7.413	12932503	93.719 ug/ml
6) T	n-Tetradecane (C14)	8.611	12259486	93.490 ug/ml
7) T	n-Hexadecane (C16)	10.225	12774572	93.428 ug/ml
8) T	n-Octadecane (C18)	11.674	13078731	93.711 ug/ml
10) T	n-Eicosane (C20)	12.985	12806004	94.178 ug/ml
11) T	n-Heneicosane (C21)	13.599	12714088	94.427 ug/ml
13) T	n-Docosane (C22)	14.186	12763388	94.706 ug/ml
14) T	n-Tetracosane (C24)	15.291	12859298	94.817 ug/ml
15) T	n-Hexacosane (C26)	16.312	12678164	94.500 ug/ml
16) T	n-Octacosane (C28)	17.262	12314896	94.073 ug/ml
17) T	n-Tricontane (C30)	18.150	12163745	92.632 ug/ml
18) T	n-Dotriacontane (C32)	18.982	11357092	91.568 ug/ml
19) T	n-Tetratriacontane (C34)	19.765	9726912	91.237 ug/ml
20) T	n-Hexatriacontane (C36)	20.503	8179229	91.517 ug/ml
21) T	n-Octatriacontane (C38)	21.258	7421499	92.136 ug/ml
22) T	n-Tetracontane (C40)	22.208	6889345	93.435 ug/ml

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

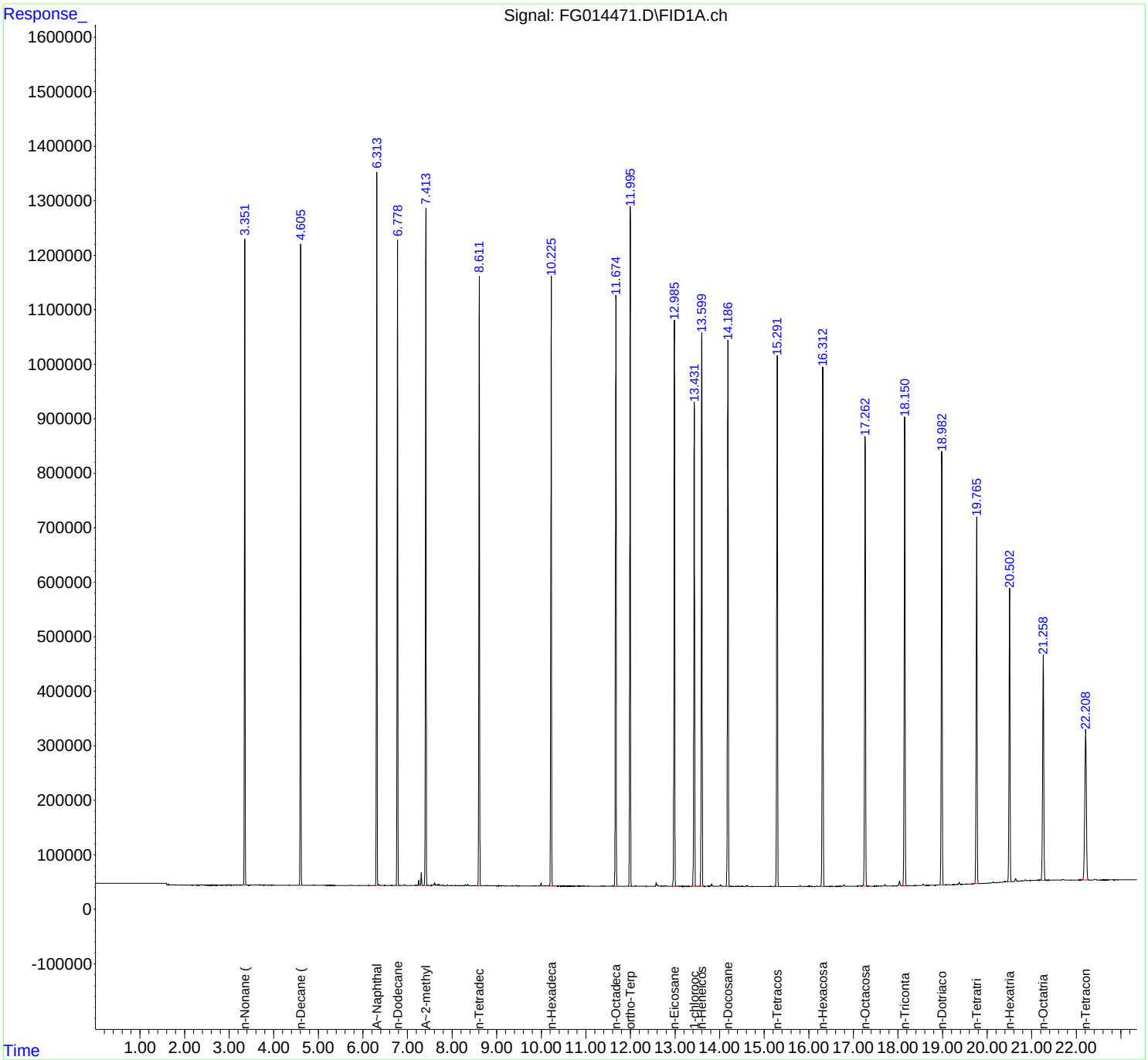
Quantitation Report (QT Reviewed)

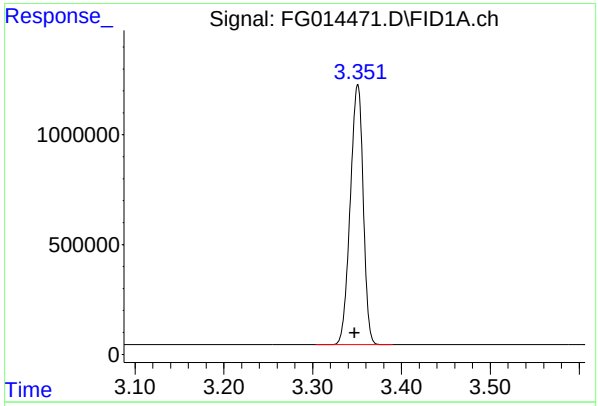
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG102124AL\
Data File : FG014471.D
Signal(s) : FID1A.ch
Acq On : 22 Oct 2024 00:58
Operator : YP\AJ
Sample : 100 PPM ALIPHATIC HC STD1
Misc :
ALS Vial : 31 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
100 PPM ALIPHATIC HC STD1

Integration File: autoint1.e
Quant Time: Oct 22 06:45:59 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 102124.M
Quant Title : GC Extractables
QLast Update : Tue Oct 22 06:44:46 2024
Response via : Initial Calibration
Integrator: ChemStation

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

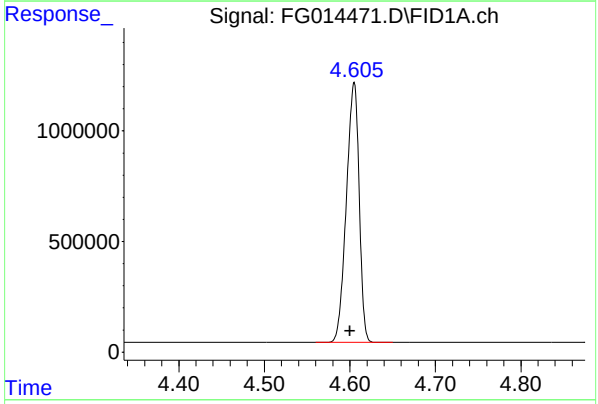




#1 n-Nonane (C9)

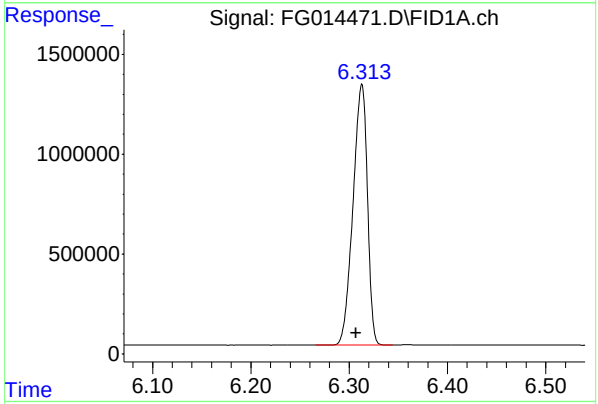
R.T.: 3.351 min
Delta R.T.: 0.004 min
Response: 12005516
Conc: 93.77 ug/ml

Instrument :
FID_G
ClientSampleId :
100 PPM ALIPHATIC HC STD1



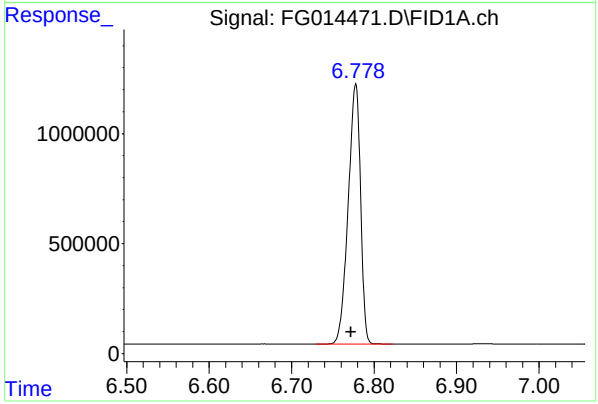
#2 n-Decane (C10)

R.T.: 4.605 min
Delta R.T.: 0.005 min
Response: 12211237
Conc: 93.70 ug/ml



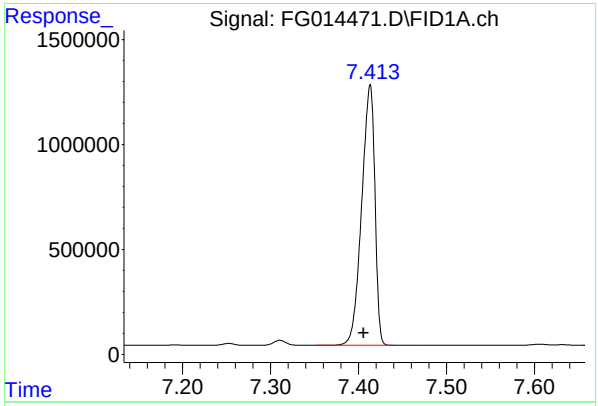
#3 A~Naphthalene (C11.7)

R.T.: 6.313 min
Delta R.T.: 0.006 min
Response: 13297129
Conc: 93.73 ug/ml



#4 n-Dodecane (C12)

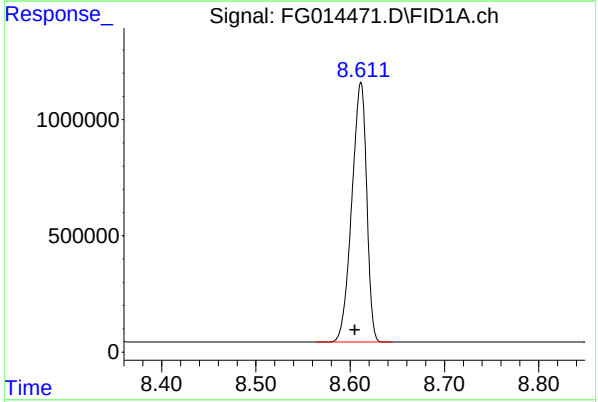
R.T.: 6.778 min
Delta R.T.: 0.006 min
Response: 12299994
Conc: 93.62 ug/ml



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

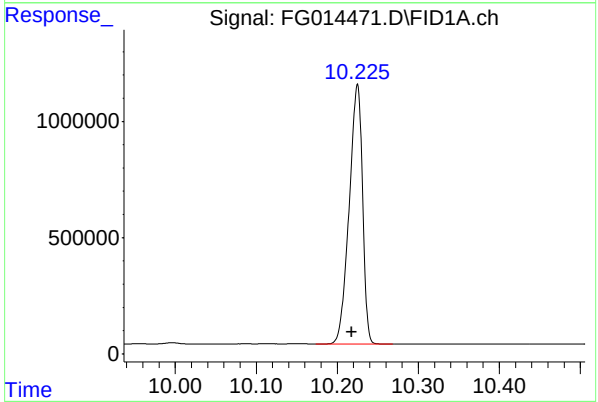
R.T.: 7.413 min
Delta R.T.: 0.007 min
Response: 12932503
Conc: 93.72 ug/ml

Instrument :
FID_G
ClientSampleId :
100 PPM ALIPHATIC HC STD1



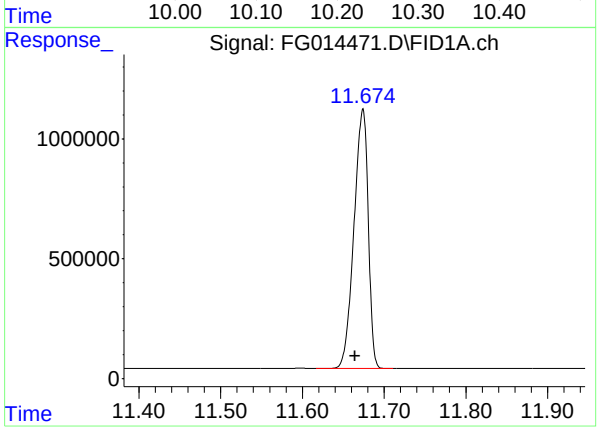
#6 n-Tetradecane (C14)

R.T.: 8.611 min
Delta R.T.: 0.006 min
Response: 12259486
Conc: 93.49 ug/ml



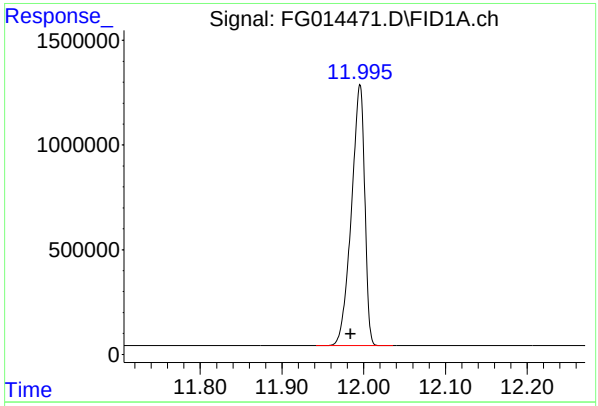
#7 n-Hexadecane (C16)

R.T.: 10.225 min
Delta R.T.: 0.007 min
Response: 12774572
Conc: 93.43 ug/ml



#8 n-Octadecane (C18)

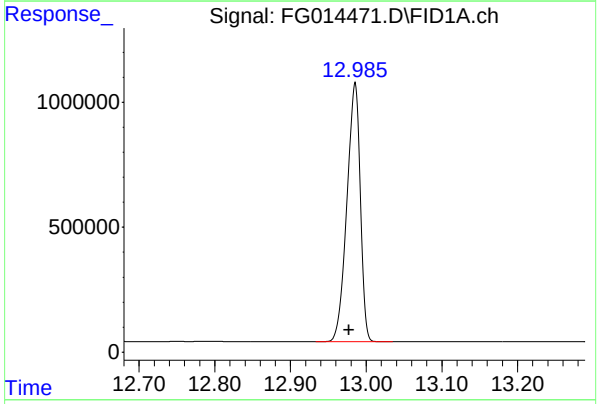
R.T.: 11.674 min
Delta R.T.: 0.010 min
Response: 13078731
Conc: 93.71 ug/ml



#9 ortho-Terphenyl (SURR)

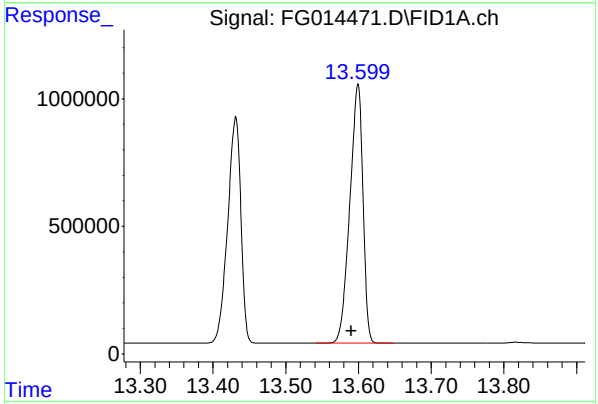
R.T.: 11.996 min
Delta R.T.: 0.011 min
Response: 14096879
Conc: 93.62 ug/ml

Instrument :
FID_G
ClientSampleId :
100 PPM ALIPHATIC HC STD1



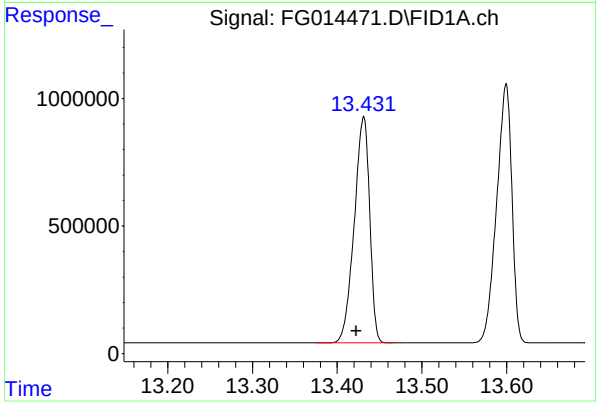
#10 n-Eicosane (C20)

R.T.: 12.985 min
Delta R.T.: 0.008 min
Response: 12806004
Conc: 94.18 ug/ml



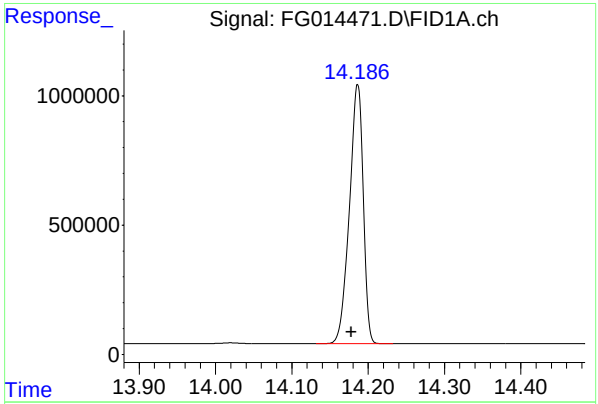
#11 n-Heneicosane (C21)

R.T.: 13.599 min
Delta R.T.: 0.009 min
Response: 12714088
Conc: 94.43 ug/ml



#12 1-chlorooctadecane (SURR)

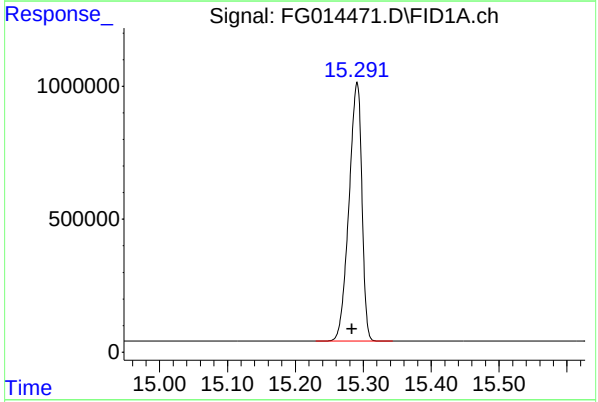
R.T.: 13.431 min
Delta R.T.: 0.009 min
Response: 11193276
Conc: 94.57 ug/ml



#13 n-Docosane (C22)

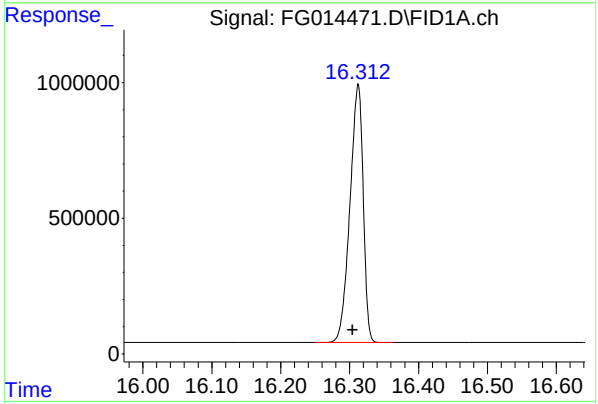
R.T.: 14.186 min
Delta R.T.: 0.008 min
Response: 12763388
Conc: 94.71 ug/ml

Instrument :
FID_G
ClientSampleId :
100 PPM ALIPHATIC HC STD1



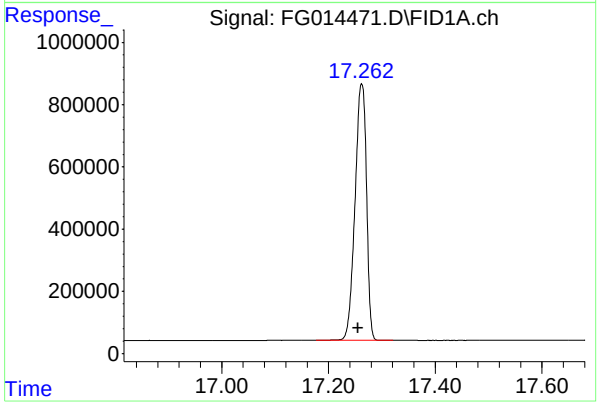
#14 n-Tetracosane (C24)

R.T.: 15.291 min
Delta R.T.: 0.008 min
Response: 12859298
Conc: 94.82 ug/ml



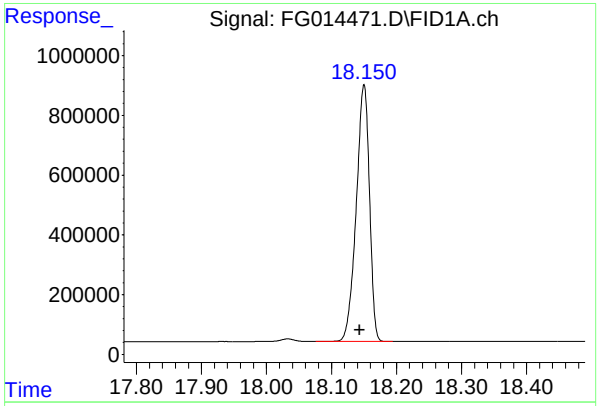
#15 n-Hexacosane (C26)

R.T.: 16.312 min
Delta R.T.: 0.008 min
Response: 12678164
Conc: 94.50 ug/ml



#16 n-Octacosane (C28)

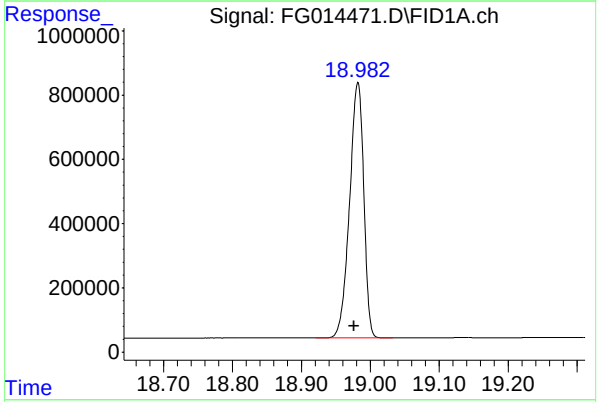
R.T.: 17.262 min
Delta R.T.: 0.007 min
Response: 12314896
Conc: 94.07 ug/ml



#17 n-Tricontane (C30)

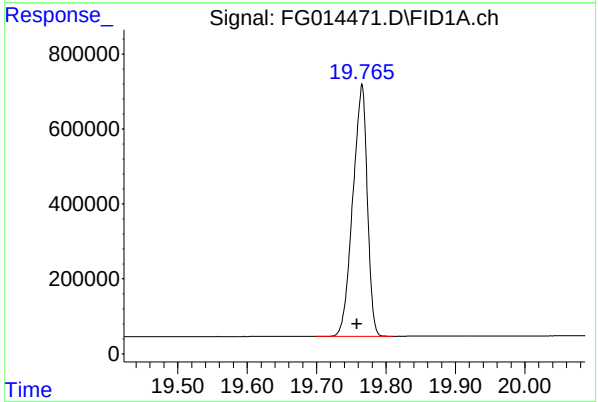
R.T.: 18.150 min
Delta R.T.: 0.007 min
Response: 12163745
Conc: 92.63 ug/ml

Instrument :
FID_G
ClientSampleId :
100 PPM ALIPHATIC HC STD1



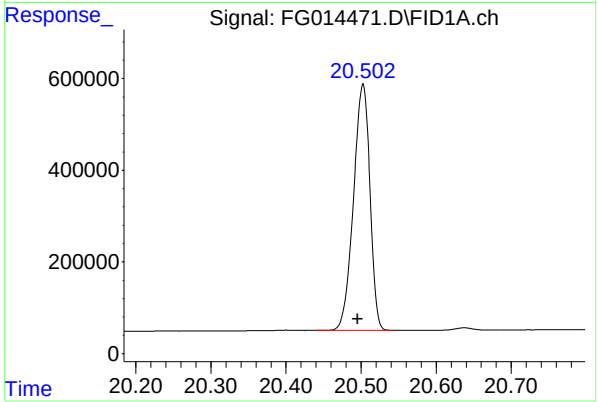
#18 n-Dotriacontane (C32)

R.T.: 18.982 min
Delta R.T.: 0.006 min
Response: 11357092
Conc: 91.57 ug/ml



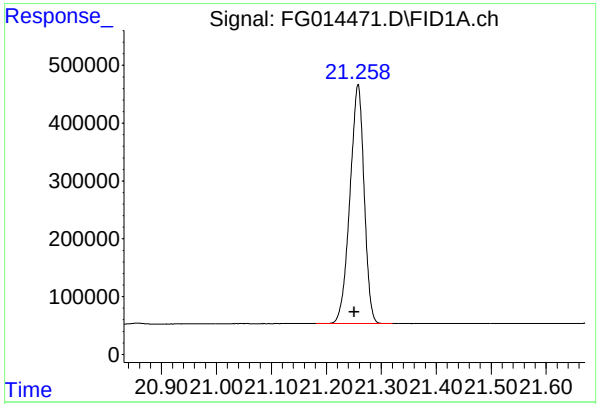
#19 n-Tetratriacontane (C34)

R.T.: 19.765 min
Delta R.T.: 0.007 min
Response: 9726912
Conc: 91.24 ug/ml



#20 n-Hexatriacontane (C36)

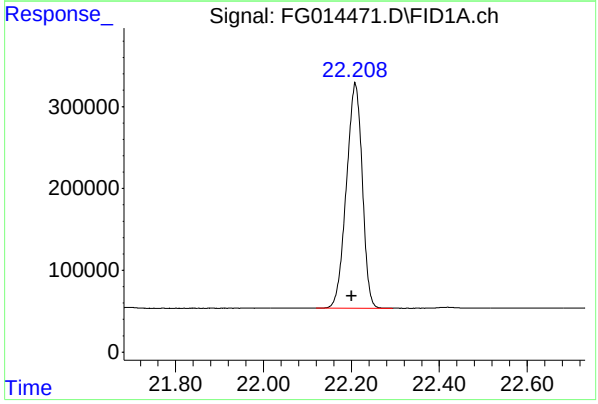
R.T.: 20.503 min
Delta R.T.: 0.007 min
Response: 8179229
Conc: 91.52 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 21.258 min
Delta R.T.: 0.007 min
Response: 7421499
Conc: 92.14 ug/ml

Instrument :
FID_G
ClientSampleId :
100 PPM ALIPHATIC HC STD1



#22 n-Tetracontane (C40)

R.T.: 22.208 min
Delta R.T.: 0.008 min
Response: 6889345
Conc: 93.44 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG102124AL\
Data File : FG014471.D
Signal(s) : FID1A.ch
Acq On : 22 Oct 2024 00:58
Sample : 100 PPM ALIPHATIC HC STD1
Misc :
ALS Vial : 31 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 102124.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	3.351	3.303	3.390	BB	1185476	12005516	85.16%	4.653%
2	4.605	4.560	4.650	BB	1176209	12211237	86.62%	4.733%
3	6.313	6.266	6.344	BV	1309217	13297129	94.33%	5.153%
4	6.778	6.729	6.823	BB	1182923	12299994	87.25%	4.767%
5	7.413	7.352	7.439	BB	1241988	12932503	91.74%	5.012%
6	8.611	8.563	8.645	BB	1119288	12259486	86.97%	4.751%
7	10.225	10.173	10.268	BB	1119383	12774572	90.62%	4.951%
8	11.674	11.617	11.711	BB	1084497	13078731	92.78%	5.069%
9	11.996	11.942	12.036	BB	1247833	14096879	100.00%	5.463%
10	12.985	12.933	13.035	BB	1038448	12806004	90.84%	4.963%
11	13.431	13.375	13.466	BB	888548	11193276	79.40%	4.338%
12	13.599	13.542	13.648	BB	1015144	12714088	90.19%	4.928%
13	14.186	14.132	14.233	BB	1001218	12763388	90.54%	4.947%
14	15.291	15.230	15.343	BB	973643	12859298	91.22%	4.984%
15	16.312	16.251	16.363	BB	953993	12678164	89.94%	4.914%
16	17.262	17.177	17.321	BB	824359	12314896	87.36%	4.773%
17	18.150	18.076	18.194	BB	859978	12163745	86.29%	4.714%
18	18.982	18.921	19.033	BB	796512	11357092	80.56%	4.402%
19	19.765	19.699	19.810	BB	672812	9726912	69.00%	3.770%
20	20.503	20.440	20.543	BB	538134	8179229	58.02%	3.170%
21	21.258	21.181	21.321	BB	413466	7421499	52.65%	2.876%
22	22.208	22.119	22.294	BB	275902	6889345	48.87%	2.670%
			Sum of corrected areas:			258022983		

Aliphatic EPH 102124.M Tue Oct 22 07:01:07 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:	22 Oct 2024 01:27
Client Sample ID:		Operator:	YP\AJ
Data file:	FG014472.D	Misc:	
Instrument:	FID_G	ALS Vial:	32
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aliphatic C9-C12	3.247	6.872	18800719.000	150.000	ug/ml
Aliphatic C12-C16	6.873	10.317	12947906.000	100.000	ug/ml
Aliphatic C16-C21	10.318	13.691	19644786.000	150.000	ug/ml
Aliphatic C21-C28	13.692	17.354	25217511.000	200.000	ug/ml
Aliphatic C28-C40	17.355	22.301	28276085.000	300.000	ug/ml
Aliphatic EPH	3.247		104887007.000	900.000	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG102124AL\
Data File : FG014472.D
Signal(s) : FID1A.ch
Acq On : 22 Oct 2024 01:27
Operator : YP\AJ
Sample : 50 PPM ALIPHATIC HC STD2
Misc :
ALS Vial : 32 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
50 PPM ALIPHATIC HC STD2

Integration File: autoint1.e
Quant Time: Oct 22 06:46:10 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 102124.M
Quant Title : GC Extractables
QLast Update : Tue Oct 22 06:44:46 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)	11.989	7260434	48.218 ug/ml
	Spiked Amount 50.000		Recovery = 96.44%	
12)	S 1-chlorooctadecane (S...	13.425	5665784	47.868 ug/ml
	Spiked Amount 50.000		Recovery = 95.74%	
	Target Compounds			
1)	T n-Nonane (C9)	3.349	6169208	48.183 ug/ml
2)	T n-Decane (C10)	4.602	6286182	48.236 ug/ml
3)	T A~Naphthalene (C11.7)	6.309	6845029	48.252 ug/ml
4)	T n-Dodecane (C12)	6.775	6345329	48.295 ug/ml
5)	T A~2-methylnaphthalene...	7.409	6664452	48.296 ug/ml
6)	T n-Tetradecane (C14)	8.608	6341985	48.363 ug/ml
7)	T n-Hexadecane (C16)	10.220	6605921	48.313 ug/ml
8)	T n-Octadecane (C18)	11.669	6719146	48.144 ug/ml
10)	T n-Eicosane (C20)	12.981	6504780	47.837 ug/ml
11)	T n-Heneicosane (C21)	13.594	6420860	47.687 ug/ml
13)	T n-Docosane (C22)	14.182	6406625	47.538 ug/ml
14)	T n-Tetracosane (C24)	15.286	6399137	47.183 ug/ml
15)	T n-Hexacosane (C26)	16.308	6288375	46.872 ug/ml
16)	T n-Octacosane (C28)	17.258	6123374	46.776 ug/ml
17)	T n-Tricontane (C30)	18.145	6091573	46.390 ug/ml
18)	T n-Dotriacontane (C32)	18.976	5740523	46.284 ug/ml
19)	T n-Tetratriacontane (C34)	19.760	4948743	46.418 ug/ml
20)	T n-Hexatriacontane (C36)	20.498	4174095	46.704 ug/ml
21)	T n-Octatriacontane (C38)	21.254	3800327	47.180 ug/ml
22)	T n-Tetracontane (C40)	22.202	3520824	47.751 ug/ml

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

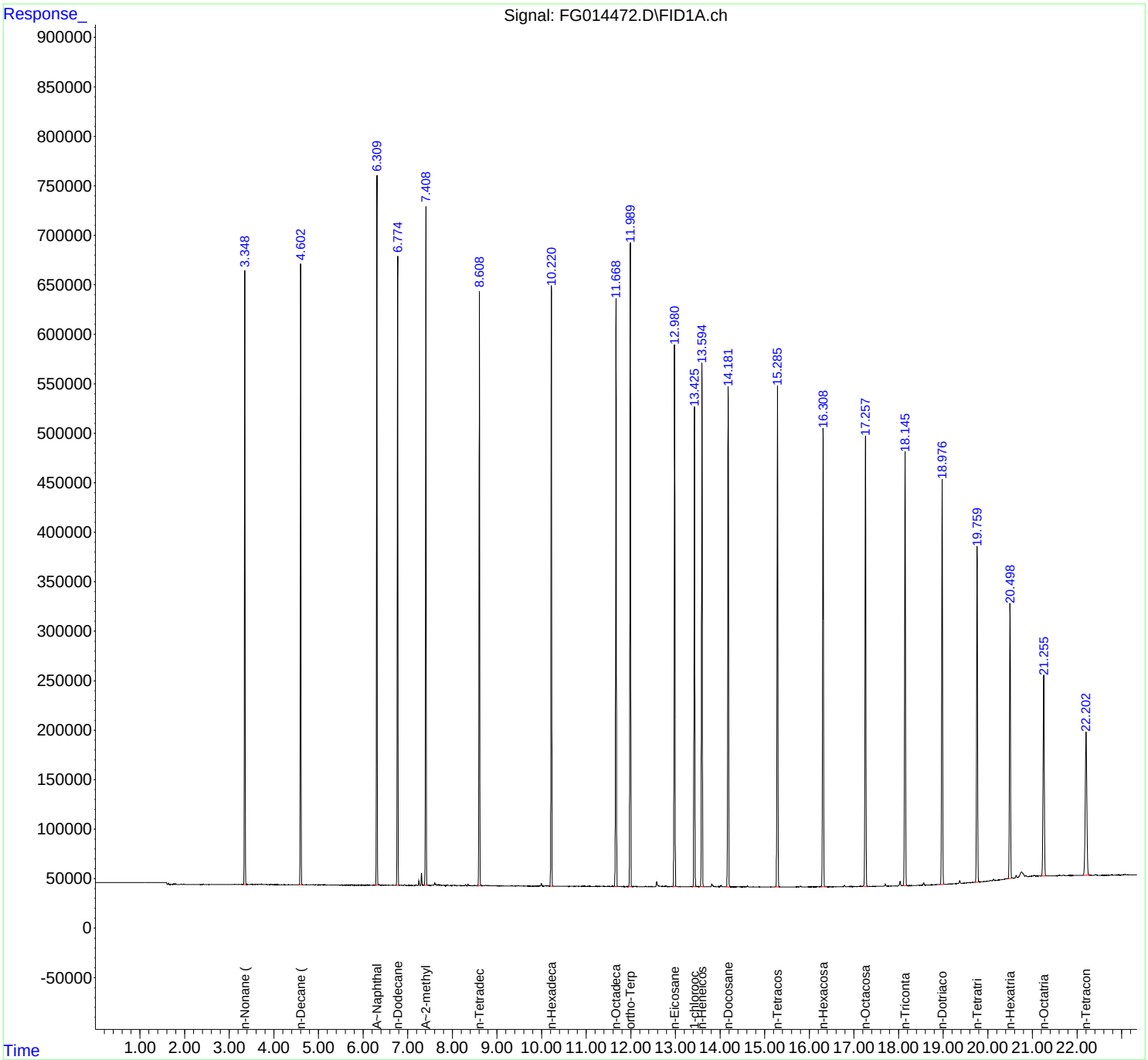
Quantitation Report (QT Reviewed)

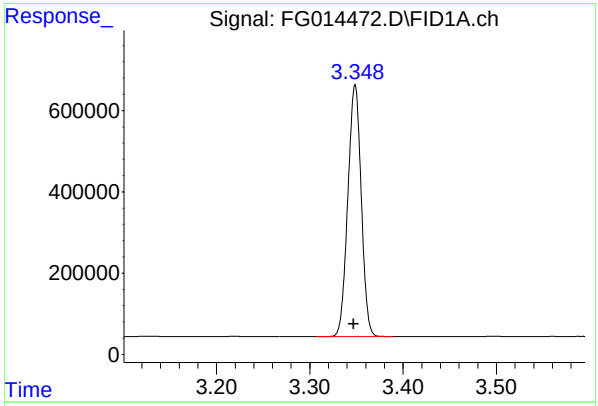
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG102124AL\
Data File : FG014472.D
Signal(s) : FID1A.ch
Acq On : 22 Oct 2024 01:27
Operator : YP\AJ
Sample : 50 PPM ALIPHATIC HC STD2
Misc :
ALS Vial : 32 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
50 PPM ALIPHATIC HC STD2

Integration File: autoint1.e
Quant Time: Oct 22 06:46:10 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 102124.M
Quant Title : GC Extractables
QLast Update : Tue Oct 22 06:44:46 2024
Response via : Initial Calibration
Integrator: ChemStation

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

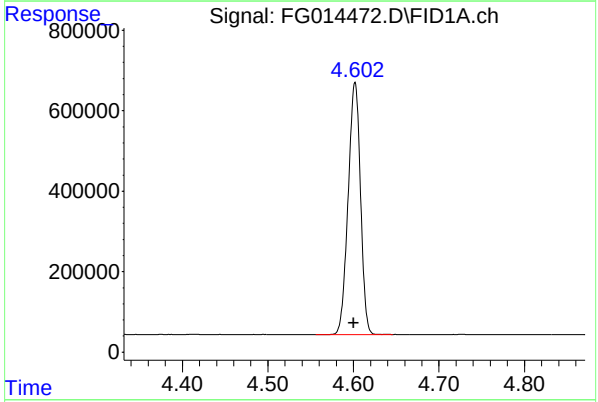




#1 n-Nonane (C9)

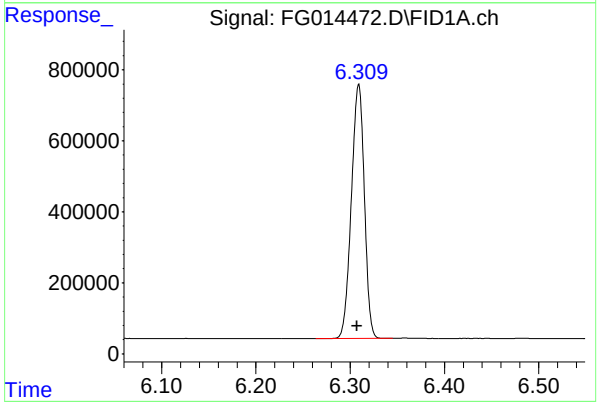
R.T.: 3.349 min
Delta R.T.: 0.002 min
Response: 6169208
Conc: 48.18 ug/ml

Instrument :
FID_G
ClientSampleId :
50 PPM ALIPHATIC HC STD2



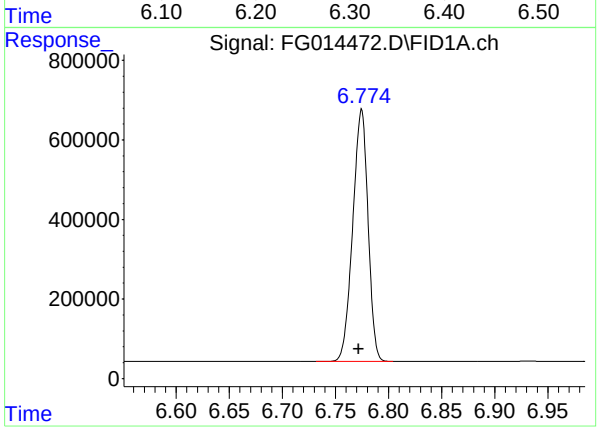
#2 n-Decane (C10)

R.T.: 4.602 min
Delta R.T.: 0.002 min
Response: 6286182
Conc: 48.24 ug/ml



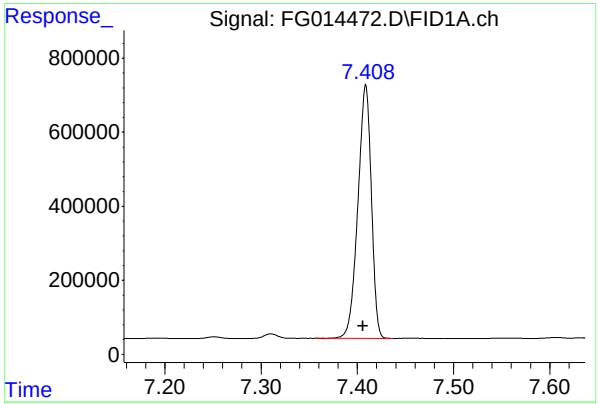
#3 A~Naphthalene (C11.7)

R.T.: 6.309 min
Delta R.T.: 0.002 min
Response: 6845029
Conc: 48.25 ug/ml



#4 n-Dodecane (C12)

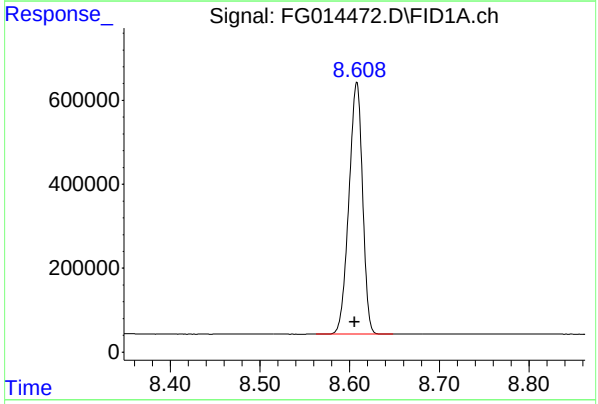
R.T.: 6.775 min
Delta R.T.: 0.003 min
Response: 6345329
Conc: 48.29 ug/ml



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

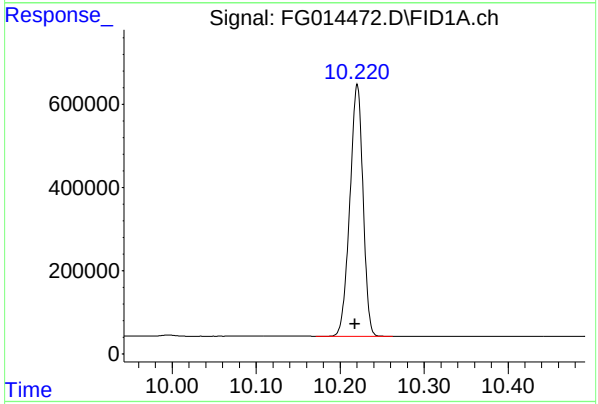
R.T.: 7.409 min
Delta R.T.: 0.003 min
Response: 6664452
Conc: 48.30 ug/ml

Instrument :
FID_G
ClientSampleId :
50 PPM ALIPHATIC HC STD2



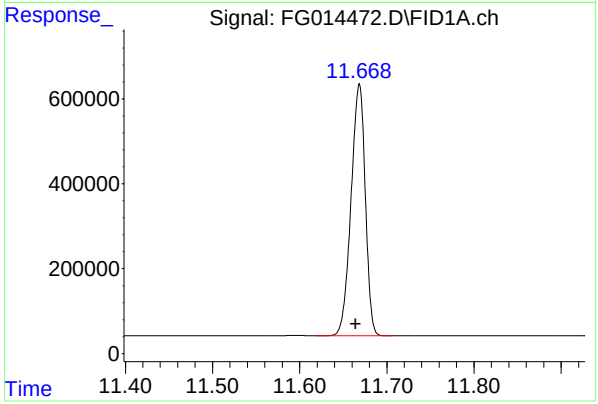
#6 n-Tetradecane (C14)

R.T.: 8.608 min
Delta R.T.: 0.003 min
Response: 6341985
Conc: 48.36 ug/ml



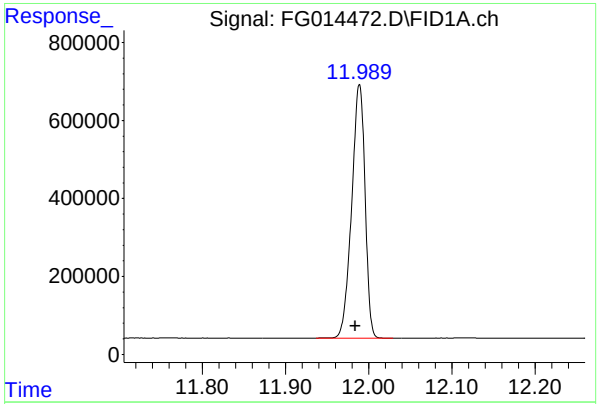
#7 n-Hexadecane (C16)

R.T.: 10.220 min
Delta R.T.: 0.003 min
Response: 6605921
Conc: 48.31 ug/ml



#8 n-Octadecane (C18)

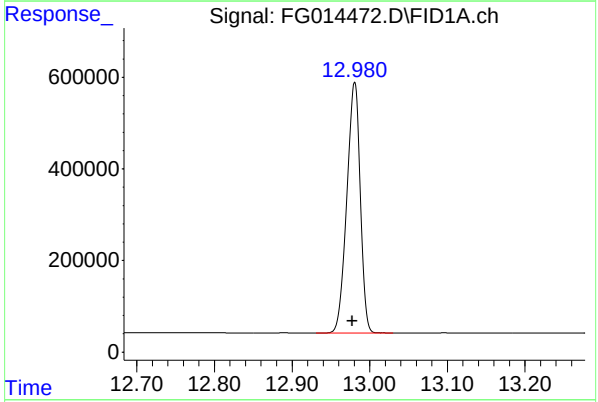
R.T.: 11.669 min
Delta R.T.: 0.004 min
Response: 6719146
Conc: 48.14 ug/ml



#9 ortho-Terphenyl (SURR)

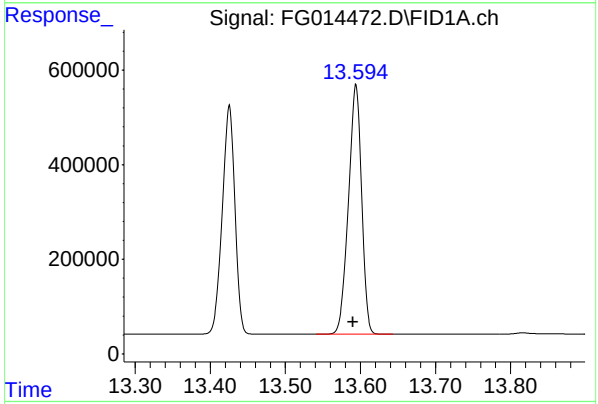
R.T.: 11.989 min
Delta R.T.: 0.005 min
Response: 7260434
Conc: 48.22 ug/ml

Instrument :
FID_G
ClientSampleId :
50 PPM ALIPHATIC HC STD2



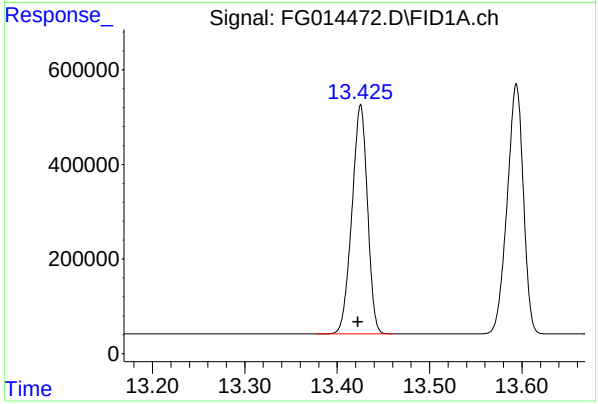
#10 n-Eicosane (C20)

R.T.: 12.981 min
Delta R.T.: 0.003 min
Response: 6504780
Conc: 47.84 ug/ml



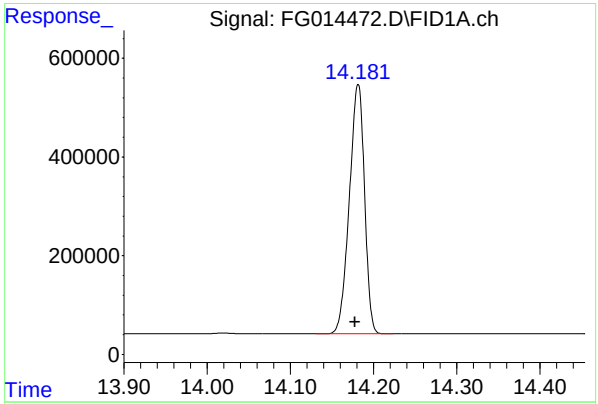
#11 n-Heneicosane (C21)

R.T.: 13.594 min
Delta R.T.: 0.004 min
Response: 6420860
Conc: 47.69 ug/ml



#12 1-chlorooctadecane (SURR)

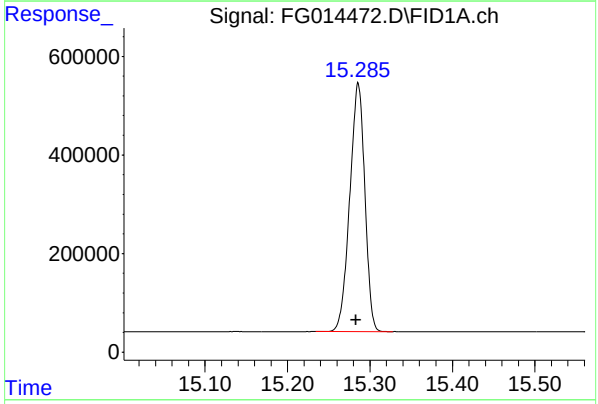
R.T.: 13.425 min
Delta R.T.: 0.003 min
Response: 5665784
Conc: 47.87 ug/ml



#13 n-Docosane (C22)

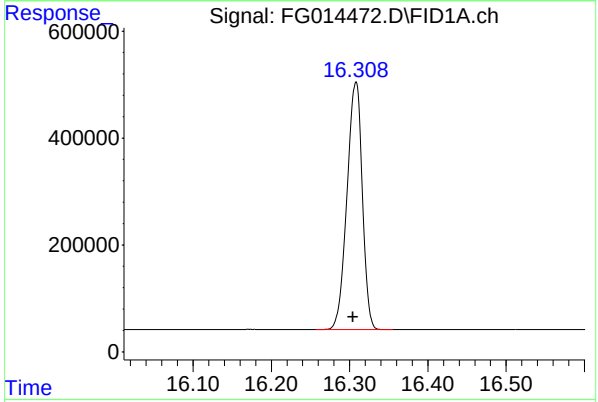
R.T.: 14.182 min
Delta R.T.: 0.004 min
Response: 6406625
Conc: 47.54 ug/ml

Instrument :
FID_G
ClientSampleId :
50 PPM ALIPHATIC HC STD2



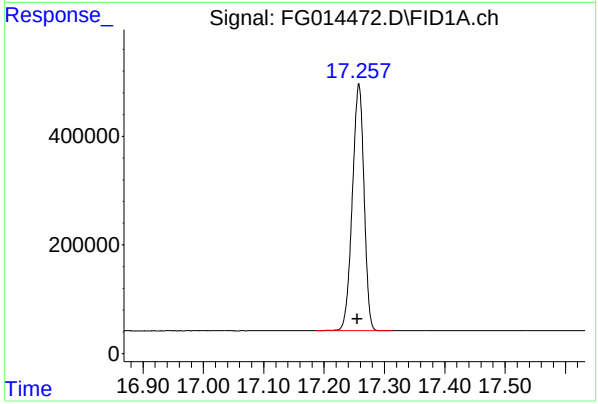
#14 n-Tetracosane (C24)

R.T.: 15.286 min
Delta R.T.: 0.002 min
Response: 6399137
Conc: 47.18 ug/ml



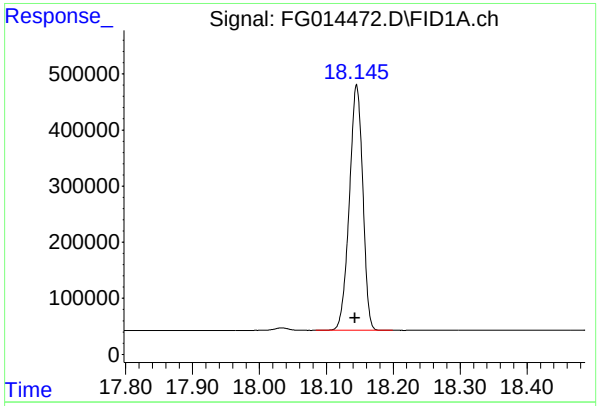
#15 n-Hexacosane (C26)

R.T.: 16.308 min
Delta R.T.: 0.004 min
Response: 6288375
Conc: 46.87 ug/ml



#16 n-Octacosane (C28)

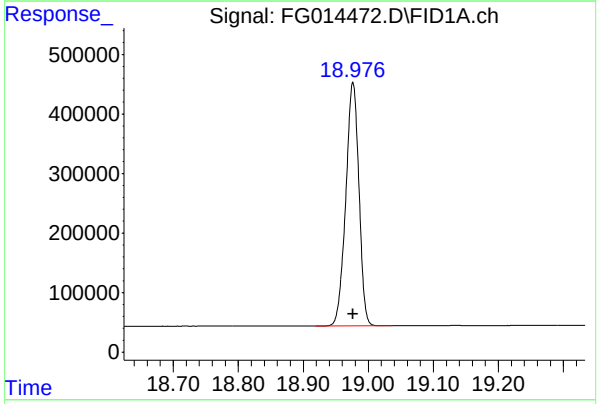
R.T.: 17.258 min
Delta R.T.: 0.003 min
Response: 6123374
Conc: 46.78 ug/ml



#17 n-Tricontane (C30)

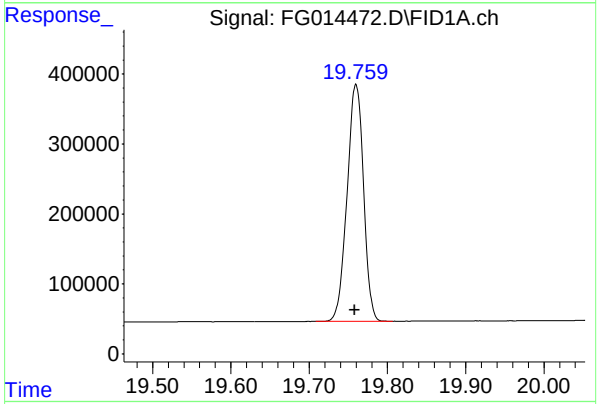
R.T.: 18.145 min
Delta R.T.: 0.002 min
Response: 6091573
Conc: 46.39 ug/ml

Instrument :
FID_G
ClientSampleId :
50 PPM ALIPHATIC HC STD2



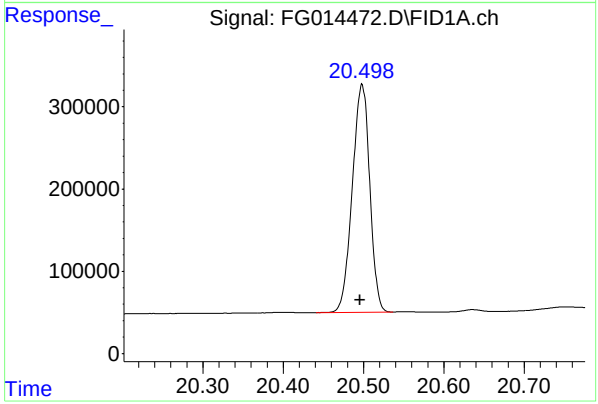
#18 n-Dotriacontane (C32)

R.T.: 18.976 min
Delta R.T.: 0.000 min
Response: 5740523
Conc: 46.28 ug/ml



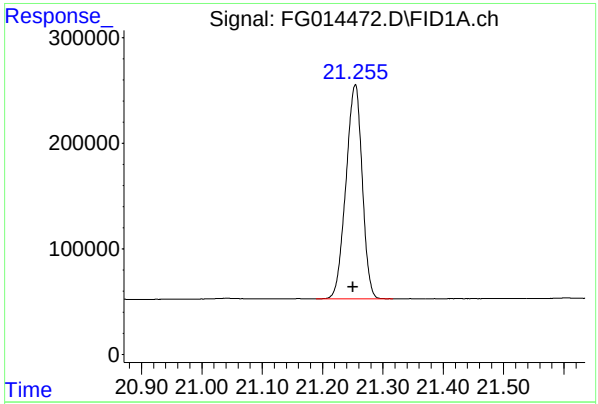
#19 n-Tetratriacontane (C34)

R.T.: 19.760 min
Delta R.T.: 0.001 min
Response: 4948743
Conc: 46.42 ug/ml



#20 n-Hexatriacontane (C36)

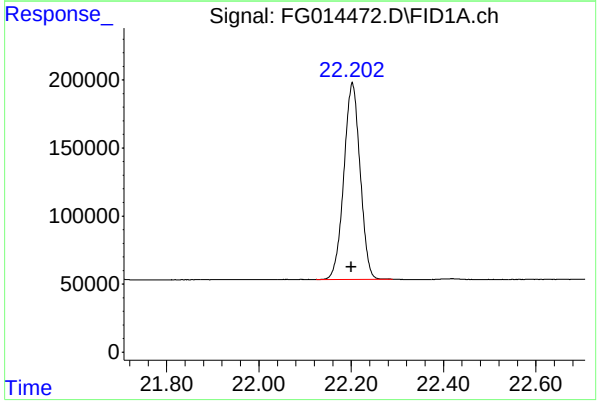
R.T.: 20.498 min
Delta R.T.: 0.003 min
Response: 4174095
Conc: 46.70 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 21.254 min
Delta R.T.: 0.004 min
Response: 3800327
Conc: 47.18 ug/ml

Instrument :
FID_G
ClientSampleId :
50 PPM ALIPHATIC HC STD2



#22 n-Tetracontane (C40)

R.T.: 22.202 min
Delta R.T.: 0.002 min
Response: 3520824
Conc: 47.75 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG102124AL\
Data File : FG014472.D
Signal(s) : FID1A.ch
Acq On : 22 Oct 2024 01:27
Sample : 50 PPM ALIPHATIC HC STD2
Misc :
ALS Vial : 32 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 102124.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	3.349	3.307	3.389	BB	619498	6169208	84.97%	4.698%
2	4.602	4.556	4.646	BB	626486	6286182	86.58%	4.787%
3	6.309	6.263	6.345	BV	717071	6845029	94.28%	5.212%
4	6.775	6.732	6.804	BB	634433	6345329	87.40%	4.832%
5	7.409	7.357	7.437	BB	685233	6664452	91.79%	5.075%
6	8.608	8.563	8.648	BB	600970	6341985	87.35%	4.829%
7	10.220	10.171	10.263	BB	606000	6605921	90.99%	5.030%
8	11.669	11.618	11.707	BB	593631	6719146	92.54%	5.117%
9	11.989	11.937	12.029	BB	651020	7260434	100.00%	5.529%
10	12.981	12.931	13.030	BB	547617	6504780	89.59%	4.953%
11	13.425	13.377	13.460	BB	485033	5665784	78.04%	4.314%
12	13.594	13.541	13.643	BB	528756	6420860	88.44%	4.889%
13	14.182	14.131	14.223	BB	505578	6406625	88.24%	4.879%
14	15.286	15.234	15.328	BB	505435	6399137	88.14%	4.873%
15	16.308	16.257	16.355	BB	463530	6288375	86.61%	4.788%
16	17.258	17.187	17.314	BB	454861	6123374	84.34%	4.663%
17	18.145	18.084	18.199	BB	438139	6091573	83.90%	4.639%
18	18.976	18.919	19.038	BB	408834	5740523	79.07%	4.371%
19	19.760	19.708	19.807	BB	338890	4948743	68.16%	3.768%
20	20.498	20.441	20.537	BB	277470	4174095	57.49%	3.179%
21	21.254	21.189	21.317	BB	202908	3800327	52.34%	2.894%
22	22.202	22.123	22.290	BB	144741	3520824	48.49%	2.681%
			Sum of corrected areas:			131322706		

Aliphatic EPH 102124.M Tue Oct 22 07:01:31 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:	22 Oct 2024 01:56
Client Sample ID:		Operator:	YP\AJ
Data file:	FG014473.D	Misc:	
Instrument:	FID_G	ALS Vial:	33
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aliphatic C9-C12	3.247	6.872	7794944.000	60.000	ug/ml
Aliphatic C12-C16	6.873	10.317	5357288.000	40.000	ug/ml
Aliphatic C16-C21	10.318	13.691	8203721.000	60.000	ug/ml
Aliphatic C21-C28	13.692	17.354	10709184.000	80.000	ug/ml
Aliphatic C28-C40	17.355	22.301	12112197.000	120.000	ug/ml
Aliphatic EPH	3.247		44177334.000	360.000	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG102124AL\
Data File : FG014473.D
Signal(s) : FID1A.ch
Acq On : 22 Oct 2024 01:56
Operator : YP\AJ
Sample : 20 PPM ALIPHATIC HC STD3
Misc :
ALS Vial : 33 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
20 PPM ALIPHATIC HC STD3

Integration File: autoint1.e
Quant Time: Oct 22 06:46:19 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 102124.M
Quant Title : GC Extractables
QLast Update : Tue Oct 22 06:44:46 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)	11.984	3011490	20.000 ug/ml
Spiked Amount	50.000		Recovery =	40.00%
12) S	1-chlorooctadecane (S...	13.423	2367257	20.000 ug/ml
Spiked Amount	50.000		Recovery =	40.00%
	Target Compounds			
1) T	n-Nonane (C9)	3.347	2560741	20.000 ug/ml
2) T	n-Decane (C10)	4.600	2606448	20.000 ug/ml
3) T	A~Naphthalene (C11.7)	6.307	2837209	20.000 ug/ml
4) T	n-Dodecane (C12)	6.772	2627755	20.000 ug/ml
5) T	A~2-methylnaphthalene...	7.406	2759851	20.000 ug/ml
6) T	n-Tetradecane (C14)	8.605	2622642	20.000 ug/ml
7) T	n-Hexadecane (C16)	10.218	2734646	20.000 ug/ml
8) T	n-Octadecane (C18)	11.665	2791285	20.000 ug/ml
10) T	n-Eicosane (C20)	12.977	2719538	20.000 ug/ml
11) T	n-Heneicosane (C21)	13.590	2692898	20.000 ug/ml
13) T	n-Docosane (C22)	14.178	2695364	20.000 ug/ml
14) T	n-Tetracosane (C24)	15.283	2712448	20.000 ug/ml
15) T	n-Hexacosane (C26)	16.304	2683219	20.000 ug/ml
16) T	n-Octacosane (C28)	17.255	2618153	20.000 ug/ml
17) T	n-Tricontane (C30)	18.143	2626243	20.000 ug/ml
18) T	n-Dotriacontane (C32)	18.976	2480578	20.000 ug/ml
19) T	n-Tetratriacontane (C34)	19.759	2132240	20.000 ug/ml
20) T	n-Hexatriacontane (C36)	20.495	1787469	20.000 ug/ml
21) T	n-Octatriacontane (C38)	21.250	1610992	20.000 ug/ml
22) T	n-Tetracontane (C40)	22.200	1474675	20.000 ug/ml

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

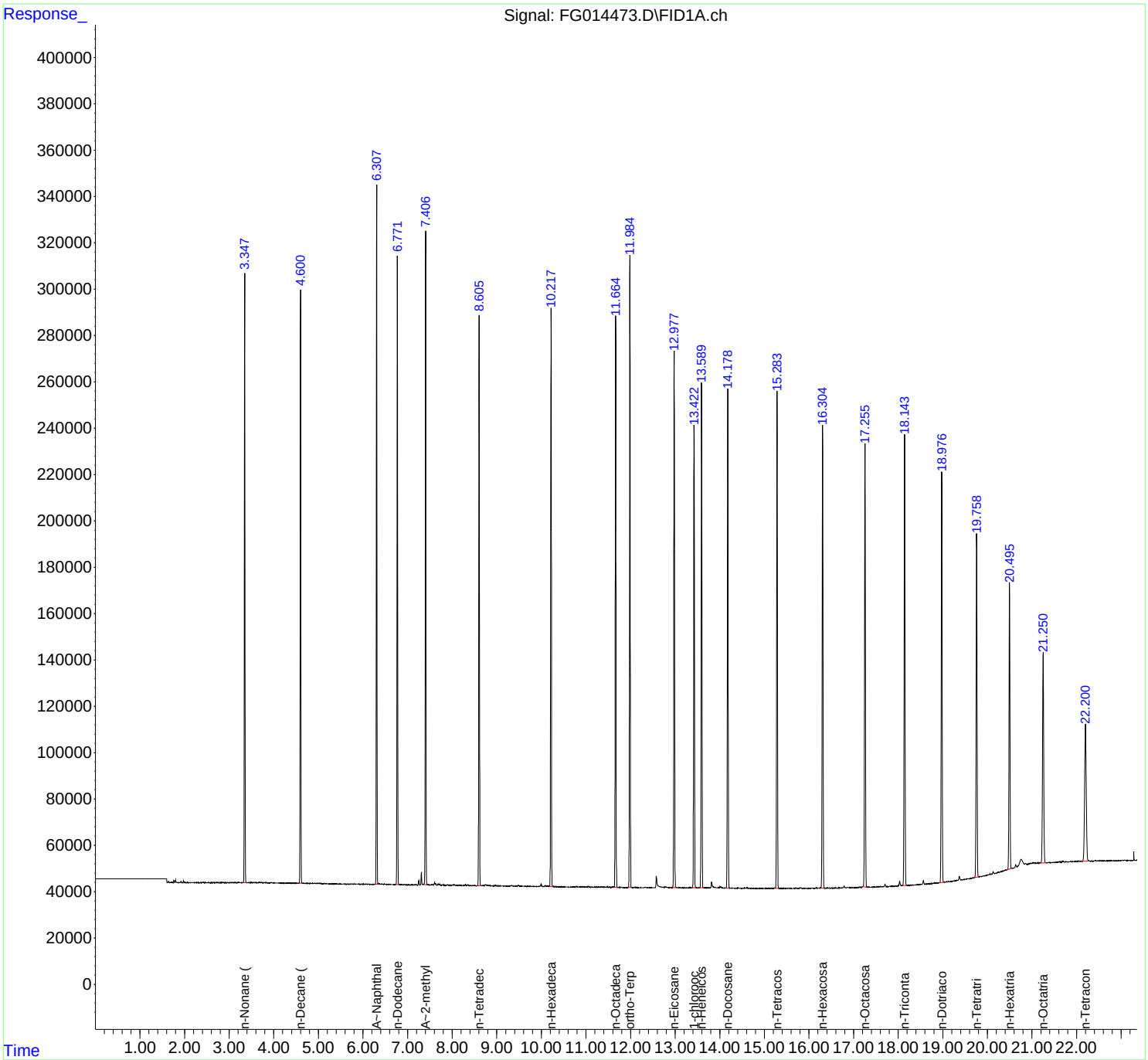
Quantitation Report (QT Reviewed)

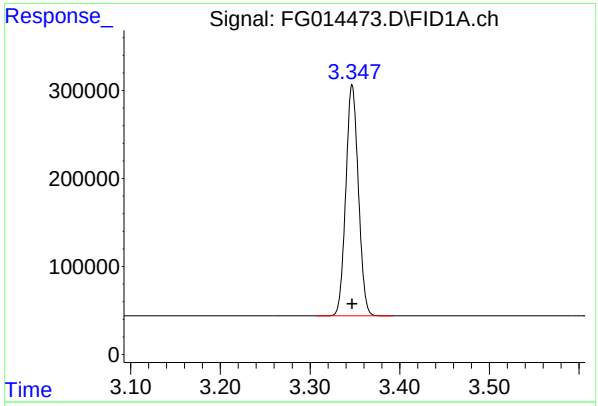
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG102124AL\
Data File : FG014473.D
Signal(s) : FID1A.ch
Acq On : 22 Oct 2024 01:56
Operator : YP\AJ
Sample : 20 PPM ALIPHATIC HC STD3
Misc :
ALS Vial : 33 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
20 PPM ALIPHATIC HC STD3

Integration File: autoint1.e
Quant Time: Oct 22 06:46:19 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 102124.M
Quant Title : GC Extractables
QLast Update : Tue Oct 22 06:44:46 2024
Response via : Initial Calibration
Integrator: ChemStation

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

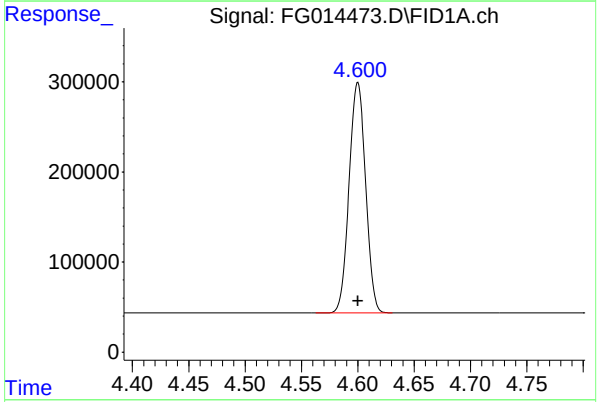




#1 n-Nonane (C9)

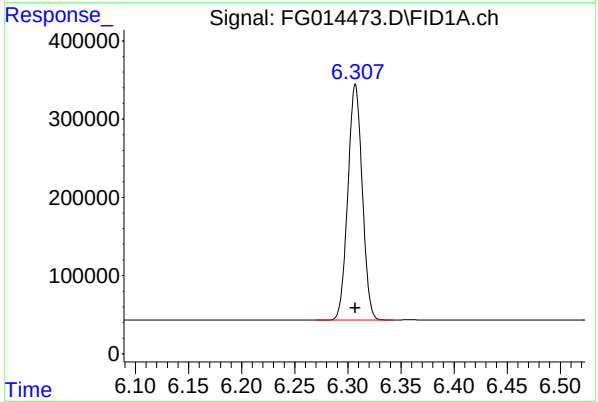
R.T.: 3.347 min
Delta R.T.: 0.000 min
Response: 2560741
Conc: 20.00 ug/ml

Instrument :
FID_G
ClientSampleId :
20 PPM ALIPHATIC HC STD3



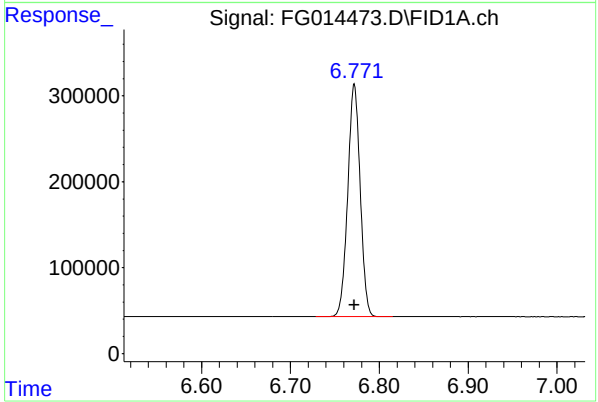
#2 n-Decane (C10)

R.T.: 4.600 min
Delta R.T.: 0.000 min
Response: 2606448
Conc: 20.00 ug/ml



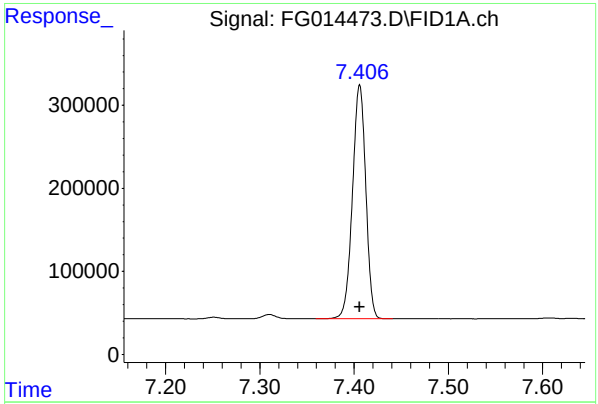
#3 A~Naphthalene (C11.7)

R.T.: 6.307 min
Delta R.T.: 0.000 min
Response: 2837209
Conc: 20.00 ug/ml



#4 n-Dodecane (C12)

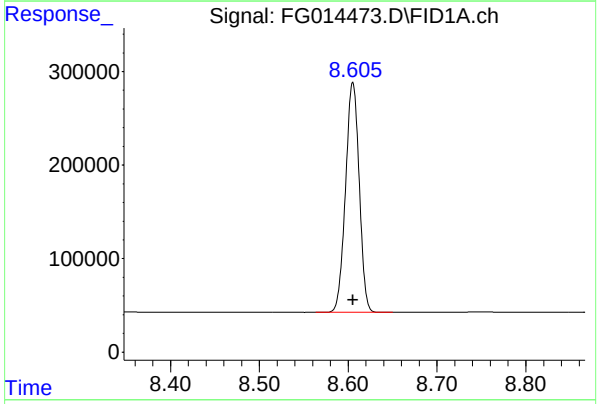
R.T.: 6.772 min
Delta R.T.: 0.000 min
Response: 2627755
Conc: 20.00 ug/ml



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

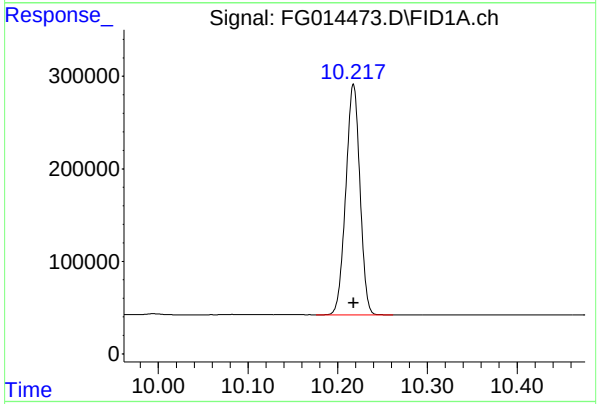
R.T.: 7.406 min
Delta R.T.: 0.000 min
Response: 2759851
Conc: 20.00 ug/ml

Instrument :
FID_G
ClientSampleId :
20 PPM ALIPHATIC HC STD3



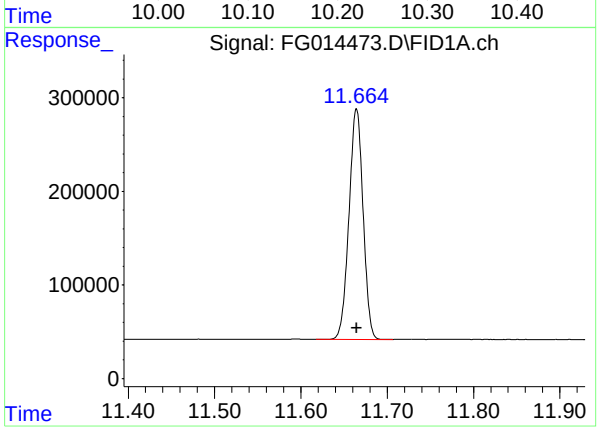
#6 n-Tetradecane (C14)

R.T.: 8.605 min
Delta R.T.: 0.000 min
Response: 2622642
Conc: 20.00 ug/ml



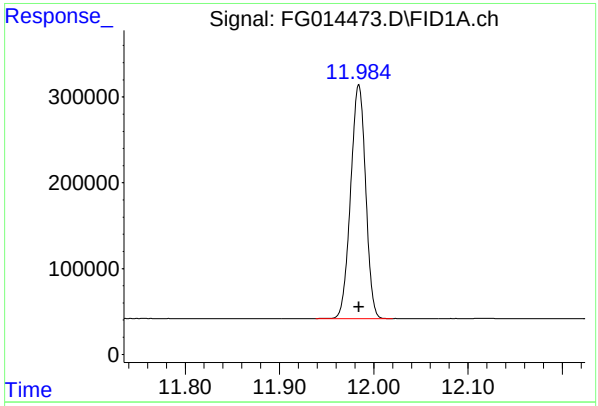
#7 n-Hexadecane (C16)

R.T.: 10.218 min
Delta R.T.: 0.000 min
Response: 2734646
Conc: 20.00 ug/ml



#8 n-Octadecane (C18)

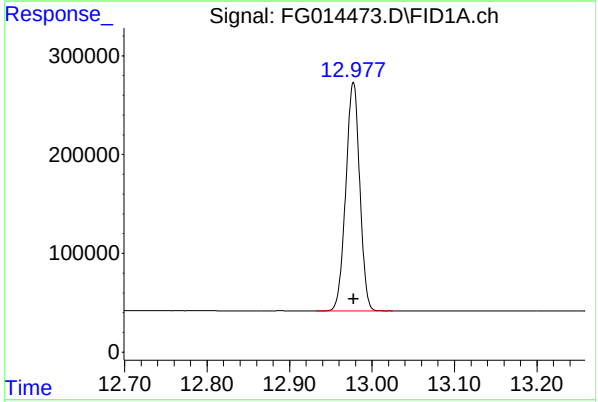
R.T.: 11.665 min
Delta R.T.: 0.000 min
Response: 2791285
Conc: 20.00 ug/ml



#9 ortho-Terphenyl (SURR)

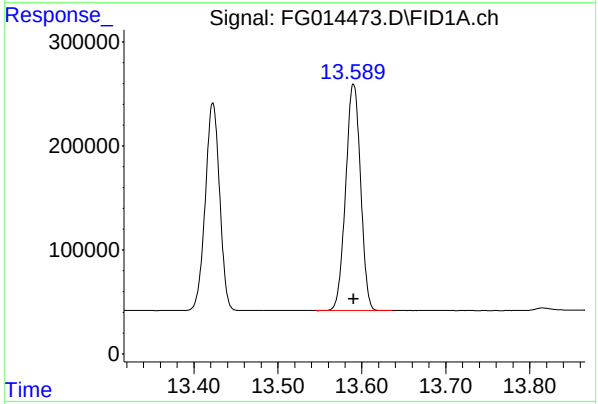
R.T.: 11.984 min
Delta R.T.: 0.000 min
Response: 3011490
Conc: 20.00 ug/ml

Instrument :
FID_G
ClientSampleId :
20 PPM ALIPHATIC HC STD3



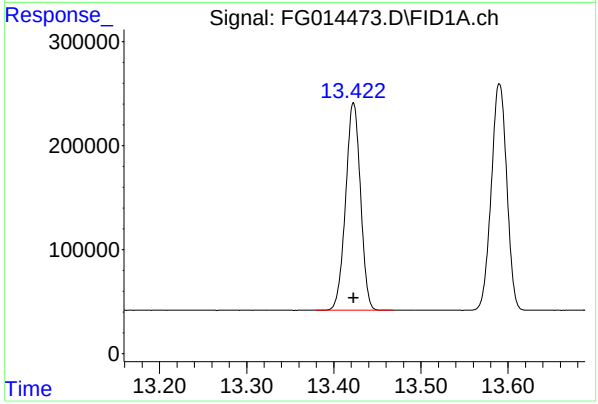
#10 n-Eicosane (C20)

R.T.: 12.977 min
Delta R.T.: 0.000 min
Response: 2719538
Conc: 20.00 ug/ml



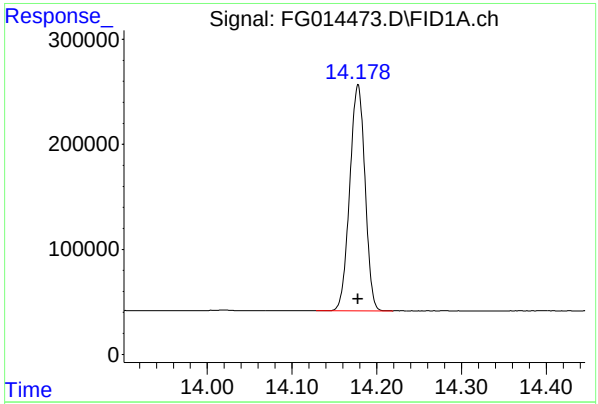
#11 n-Heneicosane (C21)

R.T.: 13.590 min
Delta R.T.: 0.000 min
Response: 2692898
Conc: 20.00 ug/ml



#12 1-chlorooctadecane (SURR)

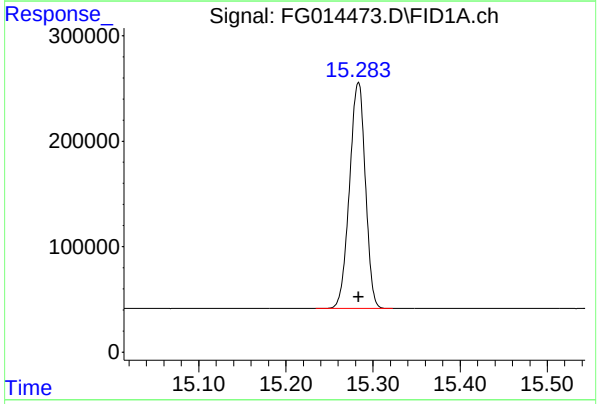
R.T.: 13.423 min
Delta R.T.: 0.000 min
Response: 2367257
Conc: 20.00 ug/ml



#13 n-Docosane (C22)

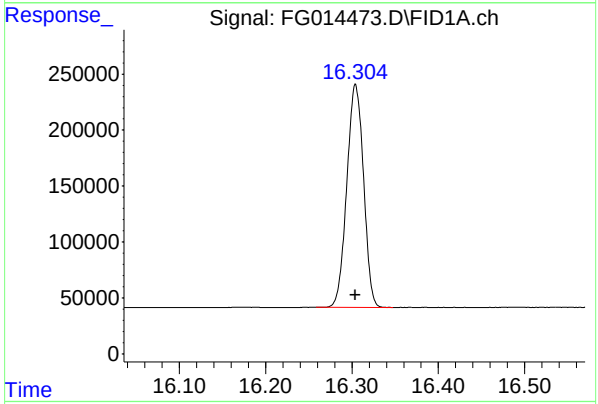
R.T.: 14.178 min
Delta R.T.: 0.000 min
Response: 2695364
Conc: 20.00 ug/ml

Instrument :
FID_G
ClientSampleId :
20 PPM ALIPHATIC HC STD3



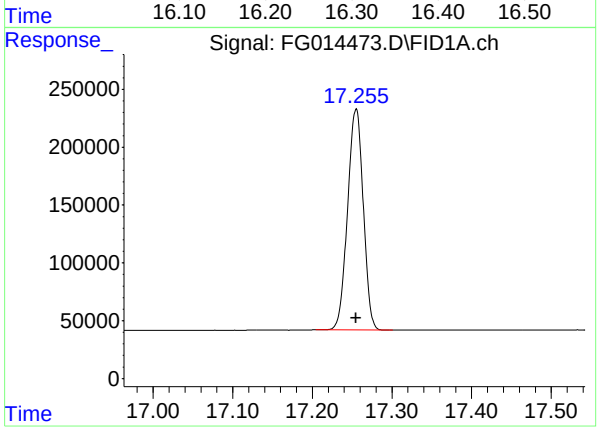
#14 n-Tetracosane (C24)

R.T.: 15.283 min
Delta R.T.: 0.000 min
Response: 2712448
Conc: 20.00 ug/ml



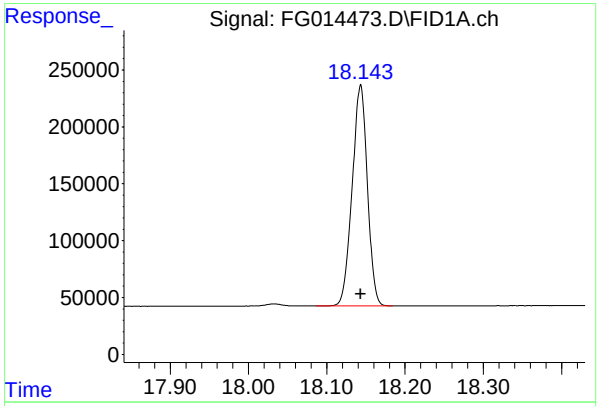
#15 n-Hexacosane (C26)

R.T.: 16.304 min
Delta R.T.: 0.000 min
Response: 2683219
Conc: 20.00 ug/ml



#16 n-Octacosane (C28)

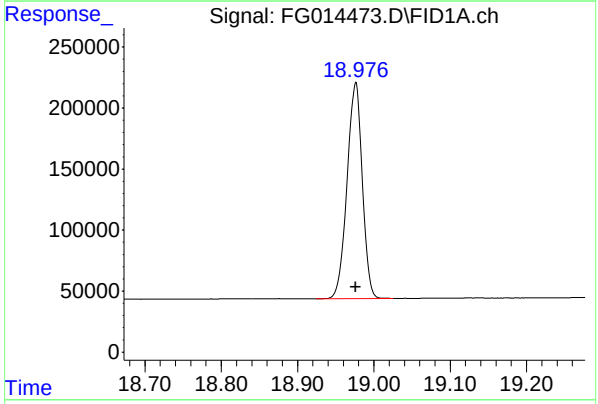
R.T.: 17.255 min
Delta R.T.: 0.000 min
Response: 2618153
Conc: 20.00 ug/ml



#17 n-Tricontane (C30)

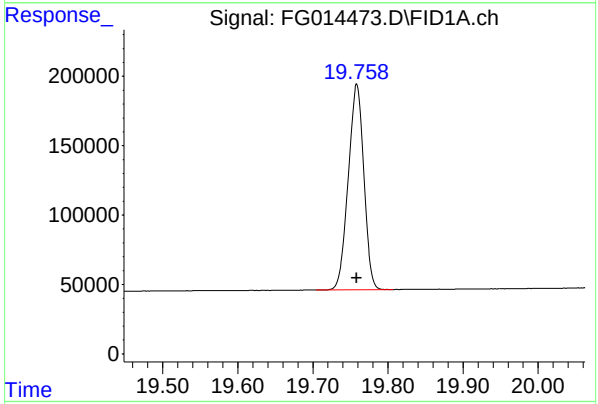
R.T.: 18.143 min
Delta R.T.: 0.000 min
Response: 2626243
Conc: 20.00 ug/ml

Instrument :
FID_G
ClientSampleId :
20 PPM ALIPHATIC HC STD3



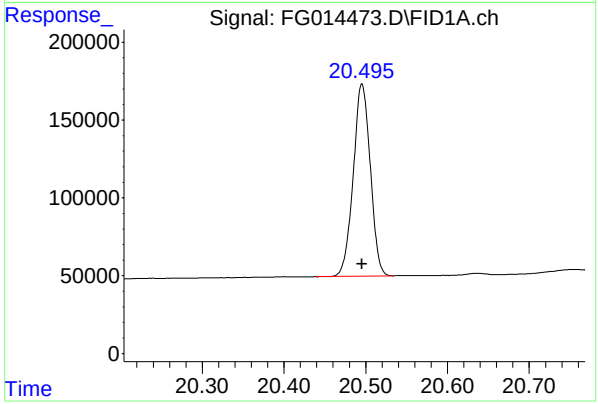
#18 n-Dotriacontane (C32)

R.T.: 18.976 min
Delta R.T.: 0.000 min
Response: 2480578
Conc: 20.00 ug/ml



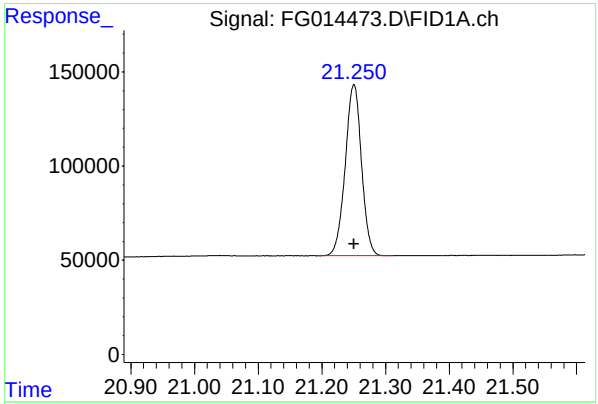
#19 n-Tetratriacontane (C34)

R.T.: 19.759 min
Delta R.T.: 0.000 min
Response: 2132240
Conc: 20.00 ug/ml



#20 n-Hexatriacontane (C36)

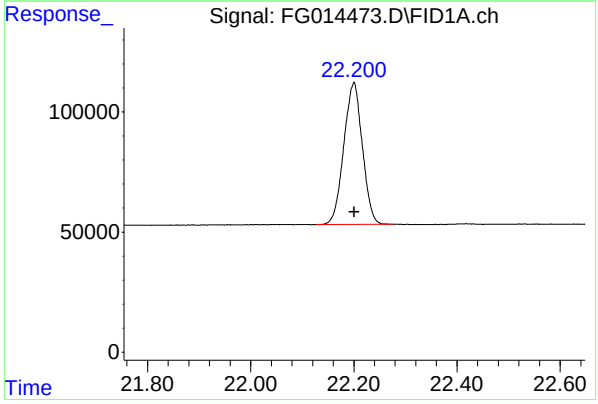
R.T.: 20.495 min
Delta R.T.: 0.000 min
Response: 1787469
Conc: 20.00 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 21.250 min
Delta R.T.: 0.000 min
Response: 1610992
Conc: 20.00 ug/ml

Instrument :
FID_G
ClientSampleId :
20 PPM ALIPHATIC HC STD3



#22 n-Tetracontane (C40)

R.T.: 22.200 min
Delta R.T.: 0.000 min
Response: 1474675
Conc: 20.00 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG102124AL\
Data File : FG014473.D
Signal(s) : FID1A.ch
Acq On : 22 Oct 2024 01:56
Sample : 20 PPM ALIPHATIC HC STD3
Misc :
ALS Vial : 33 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 102124.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	3.347	3.307	3.393	BB	262753	2560741	85.03%	4.643%
2	4.600	4.563	4.631	BB	256028	2606448	86.55%	4.726%
3	6.307	6.270	6.343	BB	301568	2837209	94.21%	5.144%
4	6.772	6.728	6.815	BB	271051	2627755	87.26%	4.764%
5	7.406	7.359	7.441	BB	281848	2759851	91.64%	5.004%
6	8.605	8.563	8.650	BB	245959	2622642	87.09%	4.755%
7	10.218	10.176	10.262	BB	249711	2734646	90.81%	4.958%
8	11.665	11.618	11.707	BB	246604	2791285	92.69%	5.061%
9	11.984	11.938	12.020	BB	272892	3011490	100.00%	5.460%
10	12.977	12.932	13.025	BB	231619	2719538	90.31%	4.931%
11	13.423	13.379	13.468	BB	199632	2367257	78.61%	4.292%
12	13.590	13.545	13.637	BB	217751	2692898	89.42%	4.883%
13	14.178	14.128	14.219	BB	215723	2695364	89.50%	4.887%
14	15.283	15.234	15.323	BB	214514	2712448	90.07%	4.918%
15	16.304	16.258	16.348	BB	199833	2683219	89.10%	4.865%
16	17.255	17.204	17.301	BB	191262	2618153	86.94%	4.747%
17	18.143	18.086	18.184	BB	194754	2626243	87.21%	4.762%
18	18.976	18.924	19.025	BB	177336	2480578	82.37%	4.498%
19	19.759	19.704	19.807	BB	148344	2132240	70.80%	3.866%
20	20.495	20.439	20.533	BB	123641	1787469	59.35%	3.241%
21	21.250	21.191	21.312	BB	90908	1610992	53.49%	2.921%
22	22.200	22.127	22.276	BB	59263	1474675	48.97%	2.674%
			Sum of corrected areas:			55153140		

Aliphatic EPH 102124.M Tue Oct 22 07:01:48 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:	22 Oct 2024 02:25
Client Sample ID:		Operator:	YP\AJ
Data file:	FG014474.D	Misc:	
Instrument:	FID_G	ALS Vial:	34
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aliphatic C9-C12	3.247	6.872	4158290.000	30.000	ug/ml
Aliphatic C12-C16	6.873	10.317	2878177.000	20.000	ug/ml
Aliphatic C16-C21	10.318	13.691	4584276.000	30.000	ug/ml
Aliphatic C21-C28	13.692	17.354	6230052.000	40.000	ug/ml
Aliphatic C28-C40	17.355	22.301	7049393.000	60.000	ug/ml
Aliphatic EPH	3.247		24900188.000	180.000	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG102124AL\
Data File : FG014474.D
Signal(s) : FID1A.ch
Acq On : 22 Oct 2024 02:25
Operator : YP\AJ
Sample : 10 PPM ALIPHATIC HC STD4
Misc :
ALS Vial : 34 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
10 PPM ALIPHATIC HC STD4

Integration File: autoint1.e
Quant Time: Oct 22 06:46:28 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 102124.M
Quant Title : GC Extractables
QLast Update : Tue Oct 22 06:44:46 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)	11.984	1633149	10.846 ug/ml
Spiked Amount	50.000		Recovery =	21.69%
12) S	1-chlorooctadecane (S...	13.423	1331752	11.251 ug/ml
Spiked Amount	50.000		Recovery =	22.50%
	Target Compounds			
1) T	n-Nonane (C9)	3.347	1367036	10.677 ug/ml
2) T	n-Decane (C10)	4.600	1389913	10.665 ug/ml
3) T	A~Naphthalene (C11.7)	6.307	1513940	10.672 ug/ml
4) T	n-Dodecane (C12)	6.771	1401341	10.666 ug/ml
5) T	A~2-methylnaphthalene...	7.405	1472351	10.670 ug/ml
6) T	n-Tetradecane (C14)	8.604	1401781	10.690 ug/ml
7) T	n-Hexadecane (C16)	10.217	1476396	10.798 ug/ml
8) T	n-Octadecane (C18)	11.664	1535645	11.003 ug/ml
10) T	n-Eicosane (C20)	12.977	1523610	11.205 ug/ml
11) T	n-Heneicosane (C21)	13.589	1525021	11.326 ug/ml
13) T	n-Docosane (C22)	14.176	1539964	11.427 ug/ml
14) T	n-Tetracosane (C24)	15.283	1573071	11.599 ug/ml
15) T	n-Hexacosane (C26)	16.303	1571293	11.712 ug/ml
16) T	n-Octacosane (C28)	17.254	1545724	11.808 ug/ml
17) T	n-Tricontane (C30)	18.141	1556404	11.853 ug/ml
18) T	n-Dotriacontane (C32)	18.975	1468804	11.842 ug/ml
19) T	n-Tetratriacontane (C34)	19.757	1251076	11.735 ug/ml
20) T	n-Hexatriacontane (C36)	20.496	1031050	11.536 ug/ml
21) T	n-Octatriacontane (C38)	21.251	913333	11.339 ug/ml
22) T	n-Tetracontane (C40)	22.201	828726	11.239 ug/ml

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

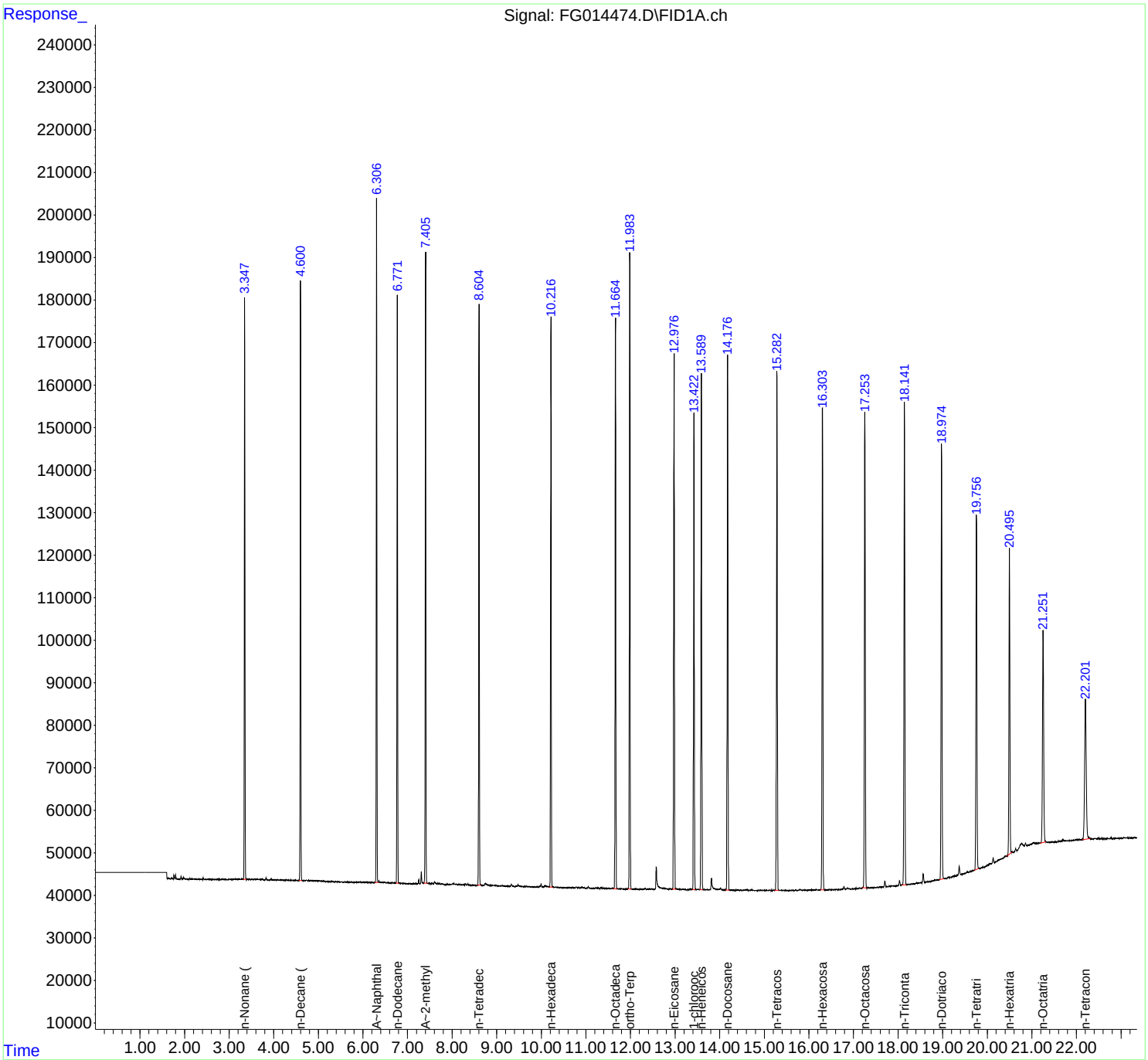
Quantitation Report (QT Reviewed)

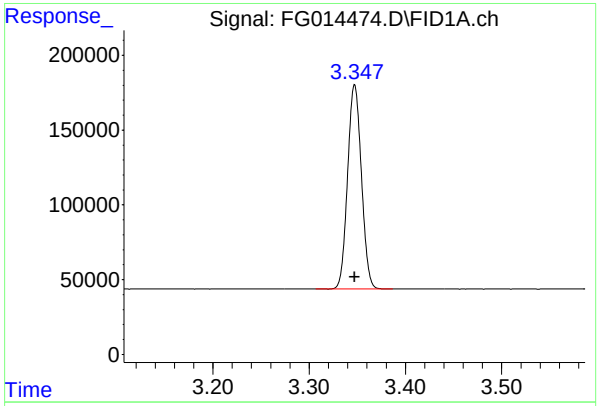
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG102124AL\
Data File : FG014474.D
Signal(s) : FID1A.ch
Acq On : 22 Oct 2024 02:25
Operator : YP\AJ
Sample : 10 PPM ALIPHATIC HC STD4
Misc :
ALS Vial : 34 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
10 PPM ALIPHATIC HC STD4

Integration File: autoint1.e
Quant Time: Oct 22 06:46:28 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 102124.M
Quant Title : GC Extractables
QLast Update : Tue Oct 22 06:44:46 2024
Response via : Initial Calibration
Integrator: ChemStation

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

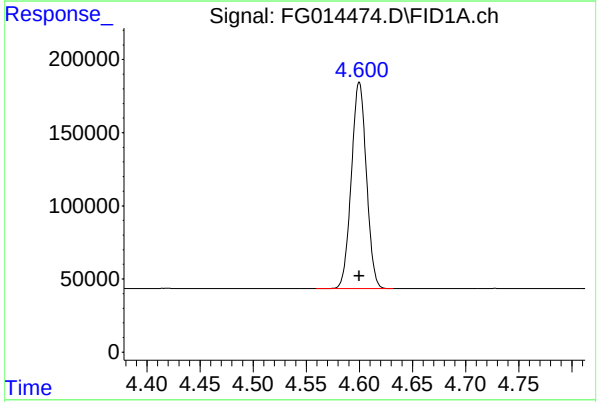




#1 n-Nonane (C9)

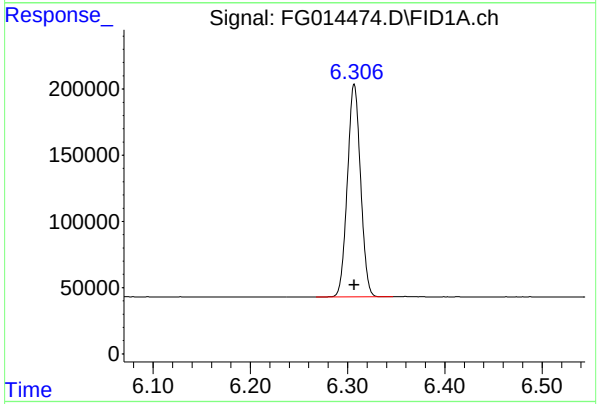
R.T.: 3.347 min
Delta R.T.: 0.000 min
Response: 1367036
Conc: 10.68 ug/ml

Instrument :
FID_G
ClientSampleId :
10 PPM ALIPHATIC HC STD4



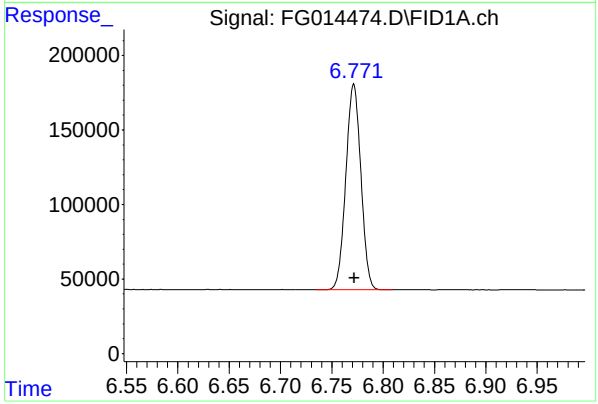
#2 n-Decane (C10)

R.T.: 4.600 min
Delta R.T.: 0.000 min
Response: 1389913
Conc: 10.67 ug/ml



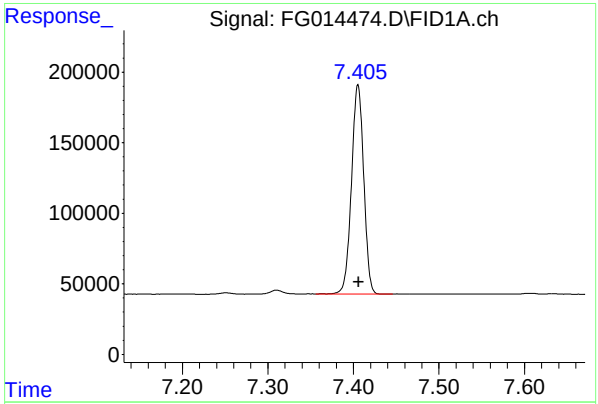
#3 A~Naphthalene (C11.7)

R.T.: 6.307 min
Delta R.T.: 0.000 min
Response: 1513940
Conc: 10.67 ug/ml



#4 n-Dodecane (C12)

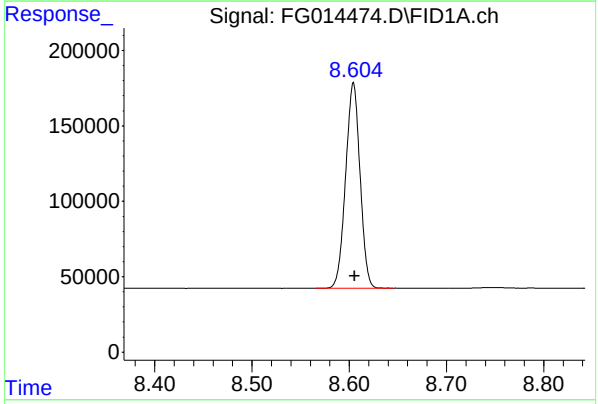
R.T.: 6.771 min
Delta R.T.: 0.000 min
Response: 1401341
Conc: 10.67 ug/ml



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

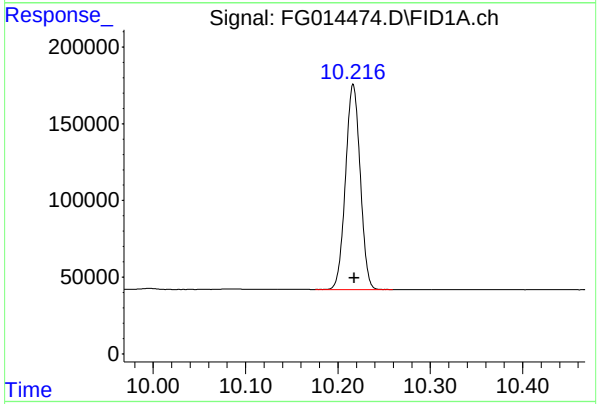
R.T.: 7.405 min
Delta R.T.: 0.000 min
Response: 1472351
Conc: 10.67 ug/ml

Instrument :
FID_G
ClientSampleId :
10 PPM ALIPHATIC HC STD4



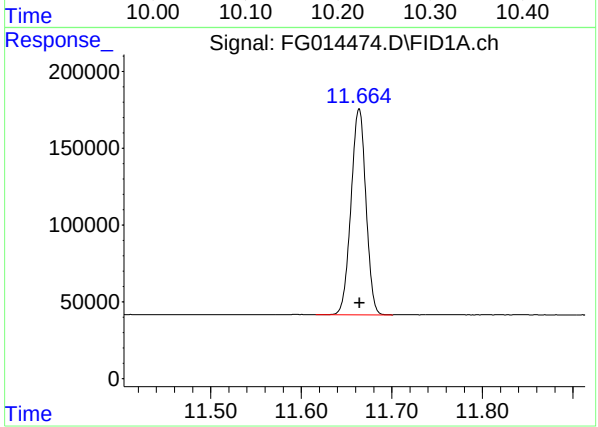
#6 n-Tetradecane (C14)

R.T.: 8.604 min
Delta R.T.: 0.000 min
Response: 1401781
Conc: 10.69 ug/ml



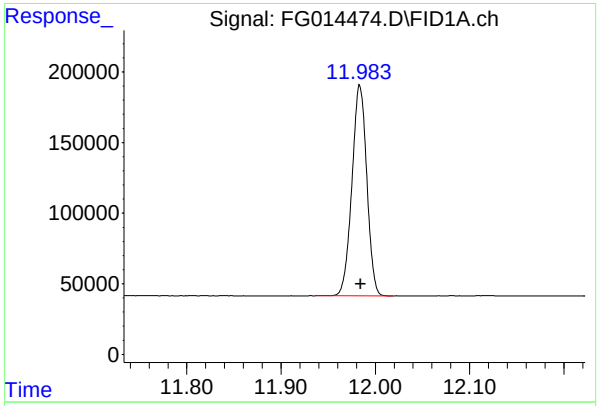
#7 n-Hexadecane (C16)

R.T.: 10.217 min
Delta R.T.: -0.001 min
Response: 1476396
Conc: 10.80 ug/ml



#8 n-Octadecane (C18)

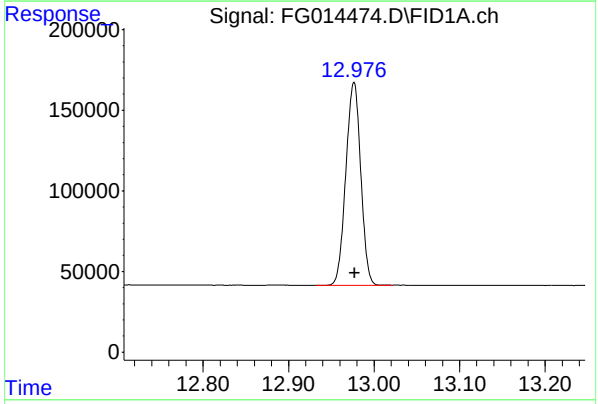
R.T.: 11.664 min
Delta R.T.: 0.000 min
Response: 1535645
Conc: 11.00 ug/ml



#9 ortho-Terphenyl (SURR)

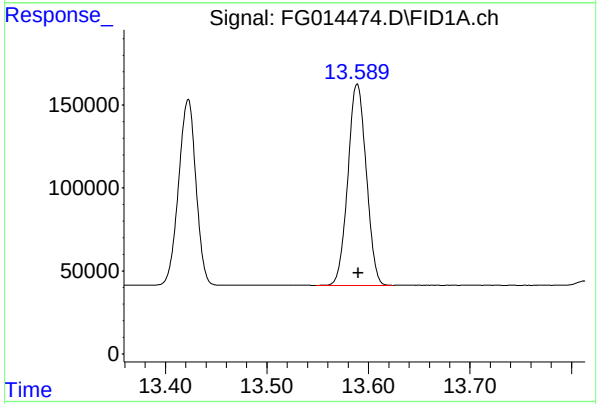
R.T.: 11.984 min
Delta R.T.: 0.000 min
Response: 1633149
Conc: 10.85 ug/ml

Instrument :
FID_G
ClientSampleId :
10 PPM ALIPHATIC HC STD4



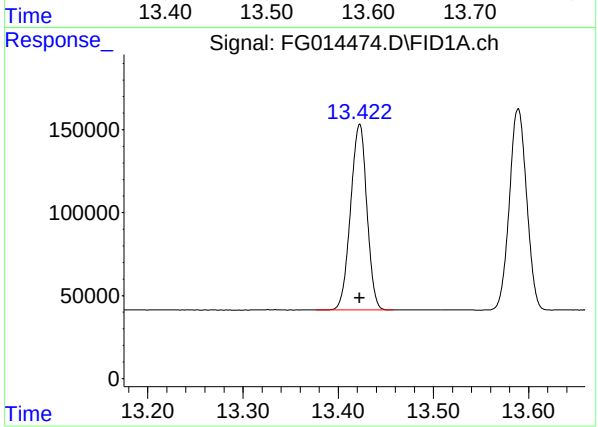
#10 n-Eicosane (C20)

R.T.: 12.977 min
Delta R.T.: 0.000 min
Response: 1523610
Conc: 11.20 ug/ml



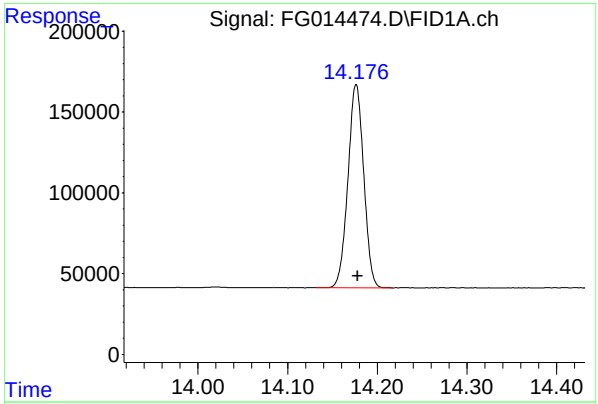
#11 n-Heneicosane (C21)

R.T.: 13.589 min
Delta R.T.: -0.001 min
Response: 1525021
Conc: 11.33 ug/ml



#12 1-chlorooctadecane (SURR)

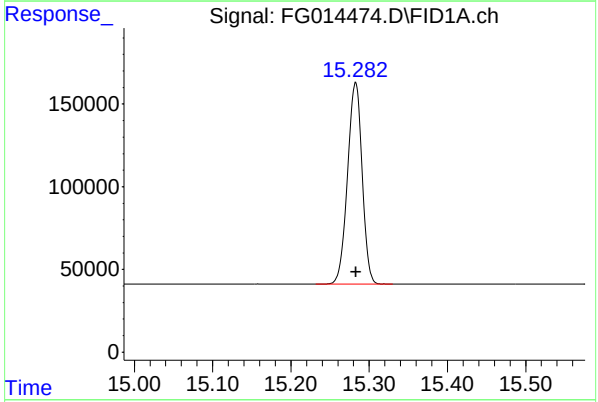
R.T.: 13.423 min
Delta R.T.: 0.000 min
Response: 1331752
Conc: 11.25 ug/ml



#13 n-Docosane (C22)

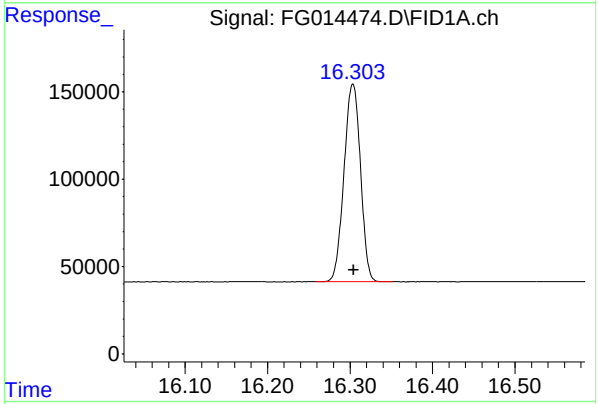
R.T.: 14.176 min
Delta R.T.: -0.002 min
Response: 1539964
Conc: 11.43 ug/ml

Instrument :
FID_G
ClientSampleId :
10 PPM ALIPHATIC HC STD4



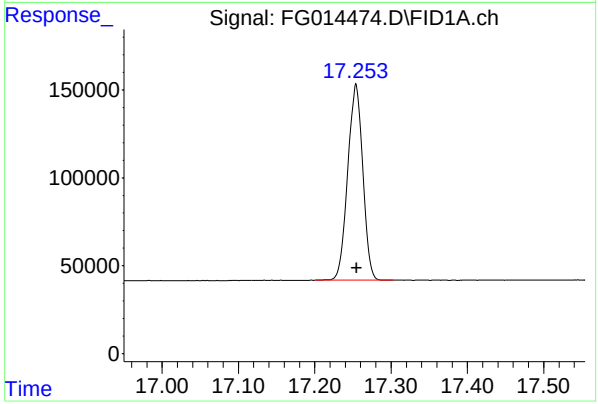
#14 n-Tetracosane (C24)

R.T.: 15.283 min
Delta R.T.: 0.000 min
Response: 1573071
Conc: 11.60 ug/ml



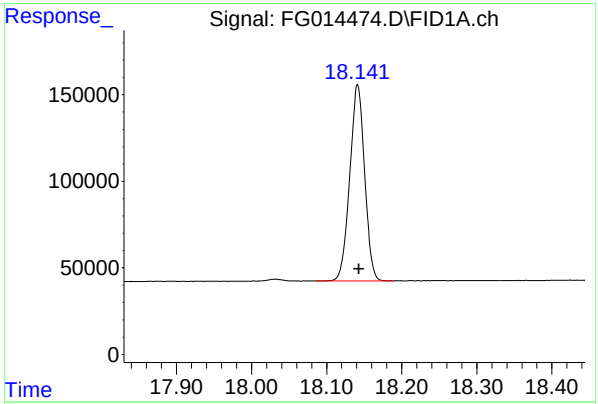
#15 n-Hexacosane (C26)

R.T.: 16.303 min
Delta R.T.: 0.000 min
Response: 1571293
Conc: 11.71 ug/ml



#16 n-Octacosane (C28)

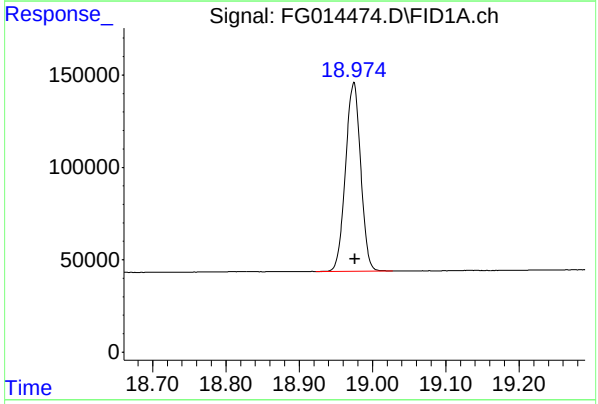
R.T.: 17.254 min
Delta R.T.: 0.000 min
Response: 1545724
Conc: 11.81 ug/ml



#17 n-Tricontane (C30)

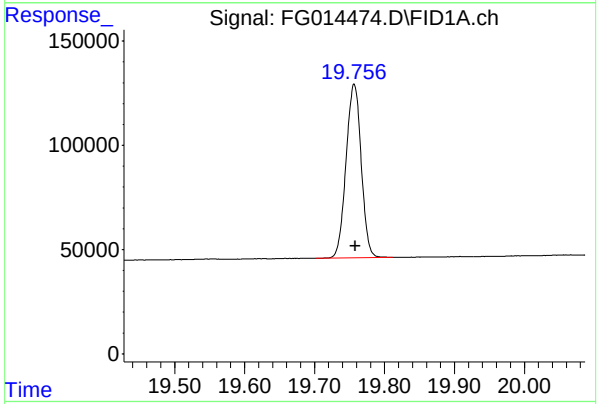
R.T.: 18.141 min
Delta R.T.: -0.002 min
Response: 1556404
Conc: 11.85 ug/ml

Instrument :
FID_G
ClientSampleId :
10 PPM ALIPHATIC HC STD4



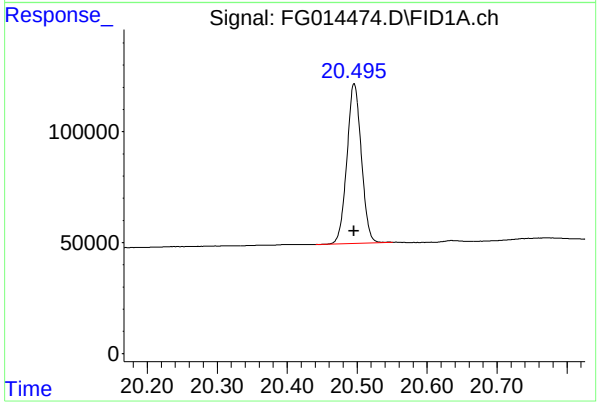
#18 n-Dotriacontane (C32)

R.T.: 18.975 min
Delta R.T.: -0.002 min
Response: 1468804
Conc: 11.84 ug/ml



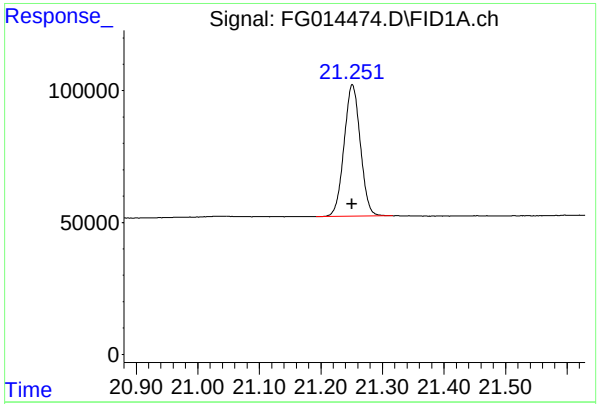
#19 n-Tetratriacontane (C34)

R.T.: 19.757 min
Delta R.T.: -0.002 min
Response: 1251076
Conc: 11.73 ug/ml



#20 n-Hexatriacontane (C36)

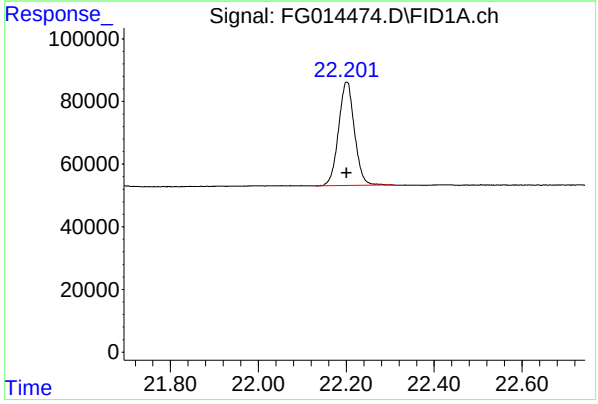
R.T.: 20.496 min
Delta R.T.: 0.000 min
Response: 1031050
Conc: 11.54 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 21.251 min
Delta R.T.: 0.000 min
Response: 913333
Conc: 11.34 ug/ml

Instrument :
FID_G
ClientSampleId :
10 PPM ALIPHATIC HC STD4



#22 n-Tetracontane (C40)

R.T.: 22.201 min
Delta R.T.: 0.000 min
Response: 828726
Conc: 11.24 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG102124AL\
Data File : FG014474.D
Signal(s) : FID1A.ch
Acq On : 22 Oct 2024 02:25
Sample : 10 PPM ALIPHATIC HC STD4
Misc :
ALS Vial : 34 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 102124.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	3.347	3.307	3.387	BB	136700	1367036	83.71%	4.431%
2	4.600	4.559	4.632	BB	141149	1389913	85.11%	4.505%
3	6.307	6.268	6.347	BB	160809	1513940	92.70%	4.907%
4	6.771	6.734	6.809	BB	138235	1401341	85.81%	4.542%
5	7.405	7.356	7.446	BB	148297	1472351	90.15%	4.772%
6	8.604	8.566	8.645	BB	136519	1401781	85.83%	4.544%
7	10.217	10.176	10.259	BB	133991	1476396	90.40%	4.786%
8	11.664	11.616	11.701	BB	134316	1535645	94.03%	4.978%
9	11.984	11.937	12.018	BB	149418	1633149	100.00%	5.294%
10	12.977	12.932	13.022	BB	125998	1523610	93.29%	4.939%
11	13.423	13.377	13.458	BB	112038	1331752	81.55%	4.317%
12	13.589	13.548	13.624	BB	121521	1525021	93.38%	4.943%
13	14.176	14.132	14.218	BB	125981	1539964	94.29%	4.992%
14	15.283	15.232	15.330	BB	122087	1573071	96.32%	5.099%
15	16.303	16.258	16.352	BB	113264	1571293	96.21%	5.093%
16	17.254	17.202	17.303	BB	111563	1545724	94.65%	5.010%
17	18.141	18.086	18.188	BB	113379	1556404	95.30%	5.045%
18	18.975	18.922	19.028	BB	102455	1468804	89.94%	4.761%
19	19.757	19.702	19.812	BB	83309	1251076	76.61%	4.055%
20	20.496	20.441	20.551	BB	72022	1031050	63.13%	3.342%
21	21.251	21.192	21.317	BB	49951	913333	55.92%	2.960%
22	22.201	22.131	22.306	BB	33000	828726	50.74%	2.686%
			Sum of corrected areas:			30851379		

Aliphatic EPH 102124.M Tue Oct 22 07:02:12 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:	22 Oct 2024 02:54
Client Sample ID:		Operator:	YP\AJ
Data file:	FG014475.D	Misc:	
Instrument:	FID_G	ALS Vial:	35
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aliphatic C9-C12	3.247	6.872	2116796.000	15.000	ug/ml
Aliphatic C12-C16	6.873	10.317	1466193.000	10.000	ug/ml
Aliphatic C16-C21	10.318	13.691	2356311.000	15.000	ug/ml
Aliphatic C21-C28	13.692	17.354	3213254.000	20.000	ug/ml
Aliphatic C28-C40	17.355	22.301	3685801.000	30.000	ug/ml
Aliphatic EPH	3.247		12838355.000	90.000	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG102124AL\
Data File : FG014475.D
Signal(s) : FID1A.ch
Acq On : 22 Oct 2024 02:54
Operator : YP\AJ
Sample : 5 PPM ALIPHATIC HC STD5
Misc :
ALS Vial : 35 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
5 PPM ALIPHATIC HC STD5

Integration File: autoint1.e
Quant Time: Oct 22 06:46:37 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 102124.M
Quant Title : GC Extractables
QLast Update : Tue Oct 22 06:44:46 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)	11.982	831378	5.521 ug/ml
Spiked Amount	50.000		Recovery =	11.04%
12) S	1-chlorooctadecane (S...	13.422	685843	5.794 ug/ml
Spiked Amount	50.000		Recovery =	11.59%
	Target Compounds			
1) T	n-Nonane (C9)	3.347	694427	5.424 ug/ml
2) T	n-Decane (C10)	4.600	708440	5.436 ug/ml
3) T	A~Naphthalene (C11.7)	6.307	770627	5.432 ug/ml
4) T	n-Dodecane (C12)	6.771	713929	5.434 ug/ml
5) T	A~2-methylnaphthalene...	7.405	748484	5.424 ug/ml
6) T	n-Tetradecane (C14)	8.604	713297	5.440 ug/ml
7) T	n-Hexadecane (C16)	10.217	752896	5.506 ug/ml
8) T	n-Octadecane (C18)	11.664	787466	5.642 ug/ml
10) T	n-Eicosane (C20)	12.977	783230	5.760 ug/ml
11) T	n-Heneicosane (C21)	13.589	785615	5.835 ug/ml
13) T	n-Docosane (C22)	14.177	794152	5.893 ug/ml
14) T	n-Tetracosane (C24)	15.281	809858	5.971 ug/ml
15) T	n-Hexacosane (C26)	16.303	809568	6.034 ug/ml
16) T	n-Octacosane (C28)	17.253	799676	6.109 ug/ml
17) T	n-Tricontane (C30)	18.141	812937	6.191 ug/ml
18) T	n-Dotriacontane (C32)	18.973	776653	6.262 ug/ml
19) T	n-Tetratriacontane (C34)	19.756	658399	6.176 ug/ml
20) T	n-Hexatriacontane (C36)	20.494	538139	6.021 ug/ml
21) T	n-Octatriacontane (C38)	21.250	478182	5.936 ug/ml
22) T	n-Tetracontane (C40)	22.199	421491	5.716 ug/ml

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

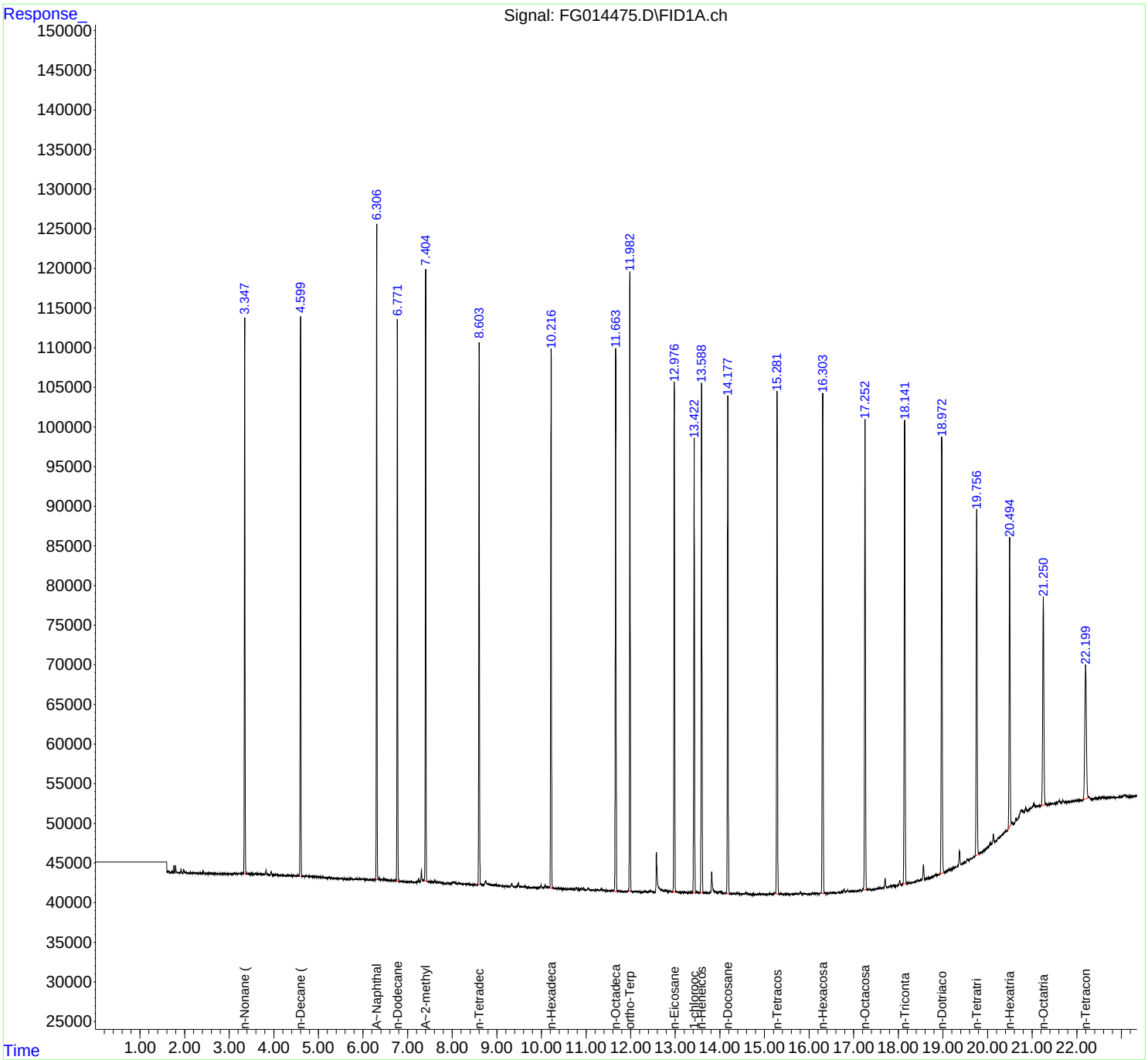
Quantitation Report (QT Reviewed)

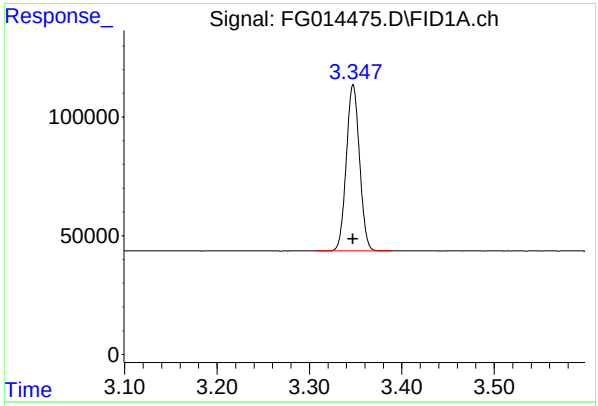
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG102124AL\
Data File : FG014475.D
Signal(s) : FID1A.ch
Acq On : 22 Oct 2024 02:54
Operator : YP\AJ
Sample : 5 PPM ALIPHATIC HC STD5
Misc :
ALS Vial : 35 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
5 PPM ALIPHATIC HC STD5

Integration File: autoint1.e
Quant Time: Oct 22 06:46:37 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 102124.M
Quant Title : GC Extractables
QLast Update : Tue Oct 22 06:44:46 2024
Response via : Initial Calibration
Integrator: ChemStation

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

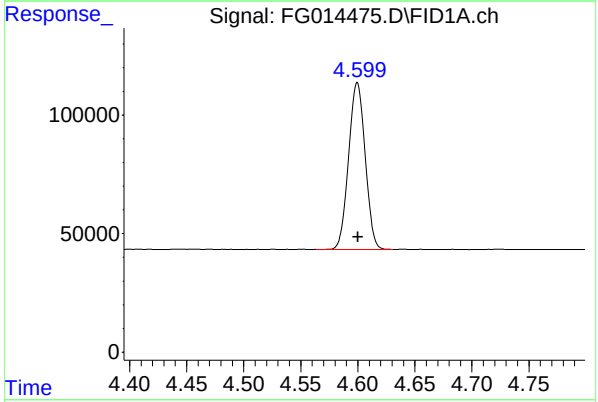




#1 n-Nonane (C9)

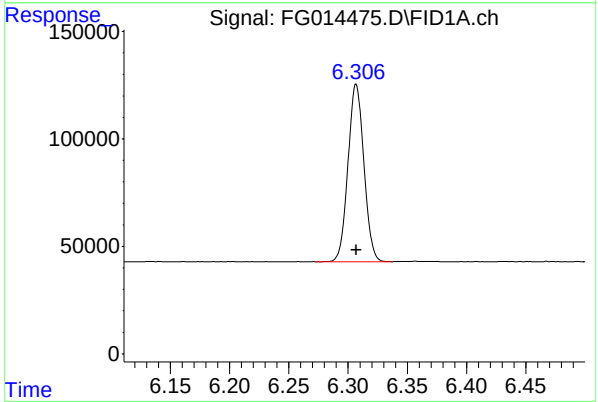
R.T.: 3.347 min
Delta R.T.: 0.000 min
Response: 694427
Conc: 5.42 ug/ml

Instrument :
FID_G
ClientSampleId :
5 PPM ALIPHATIC HC STD5



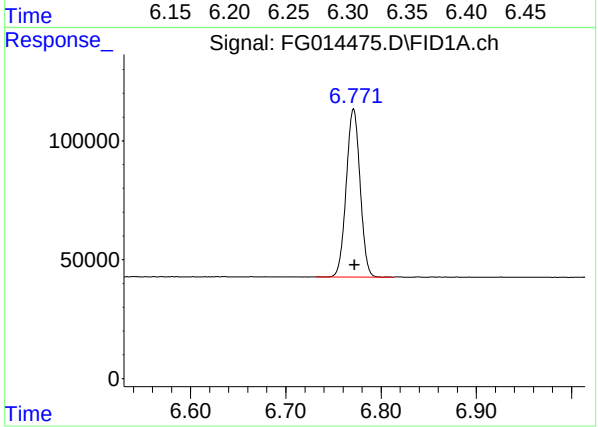
#2 n-Decane (C10)

R.T.: 4.600 min
Delta R.T.: 0.000 min
Response: 708440
Conc: 5.44 ug/ml



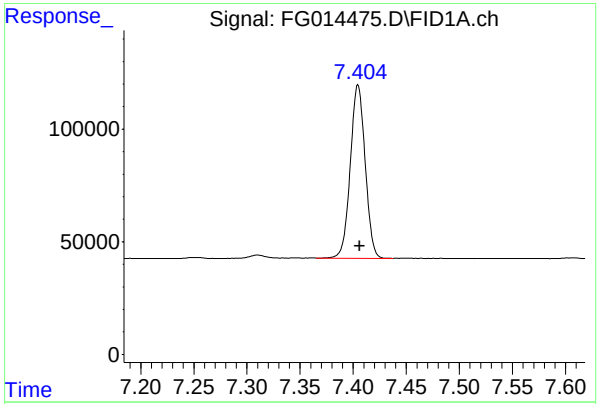
#3 A~Naphthalene (C11.7)

R.T.: 6.307 min
Delta R.T.: 0.000 min
Response: 770627
Conc: 5.43 ug/ml



#4 n-Dodecane (C12)

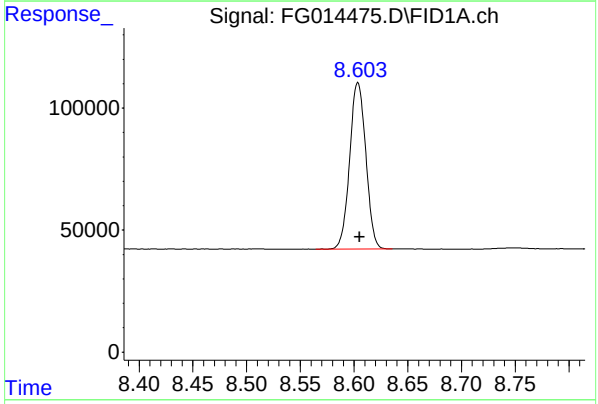
R.T.: 6.771 min
Delta R.T.: 0.000 min
Response: 713929
Conc: 5.43 ug/ml



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

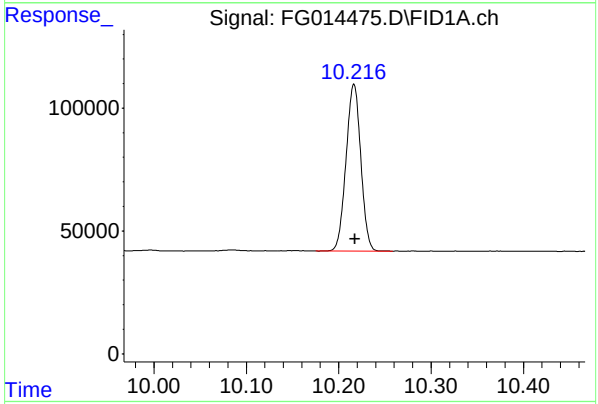
R.T.: 7.405 min
Delta R.T.: -0.001 min
Response: 748484
Conc: 5.42 ug/ml

Instrument :
FID_G
ClientSampleId :
5 PPM ALIPHATIC HC STD5



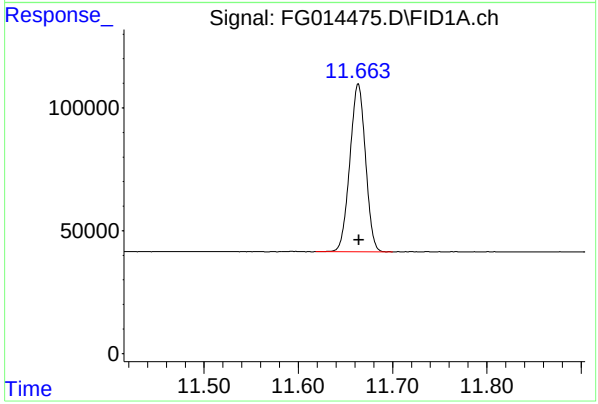
#6 n-Tetradecane (C14)

R.T.: 8.604 min
Delta R.T.: -0.002 min
Response: 713297
Conc: 5.44 ug/ml



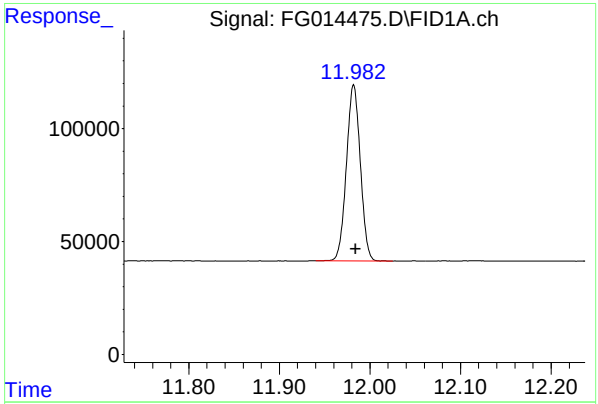
#7 n-Hexadecane (C16)

R.T.: 10.217 min
Delta R.T.: -0.001 min
Response: 752896
Conc: 5.51 ug/ml



#8 n-Octadecane (C18)

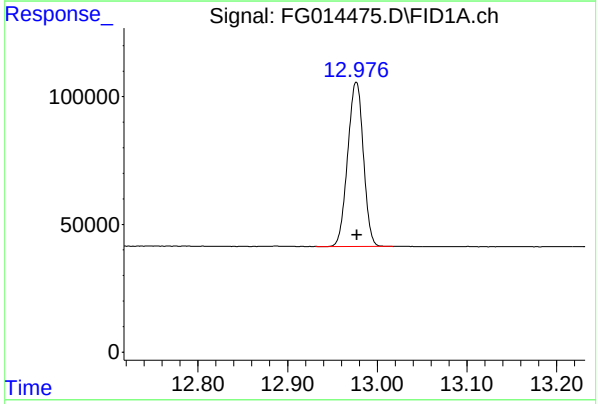
R.T.: 11.664 min
Delta R.T.: 0.000 min
Response: 787466
Conc: 5.64 ug/ml



#9 ortho-Terphenyl (SURR)

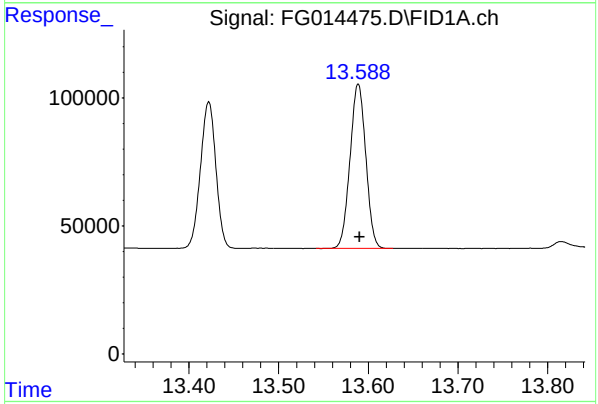
R.T.: 11.982 min
Delta R.T.: -0.002 min
Response: 831378
Conc: 5.52 ug/ml

Instrument :
FID_G
ClientSampleId :
5 PPM ALIPHATIC HC STD5



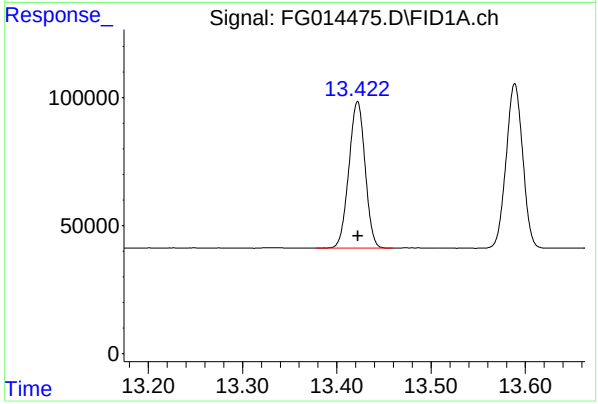
#10 n-Eicosane (C20)

R.T.: 12.977 min
Delta R.T.: 0.000 min
Response: 783230
Conc: 5.76 ug/ml



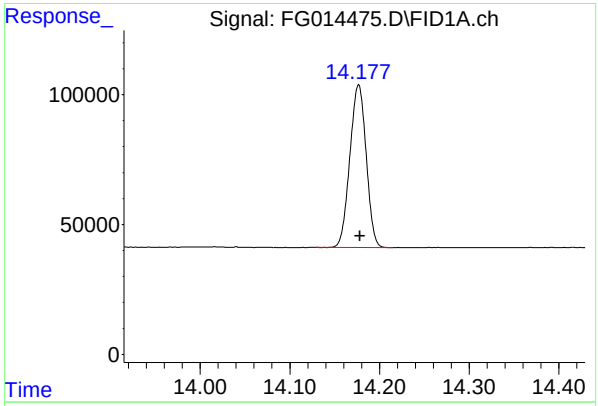
#11 n-Heneicosane (C21)

R.T.: 13.589 min
Delta R.T.: -0.001 min
Response: 785615
Conc: 5.83 ug/ml



#12 1-chlorooctadecane (SURR)

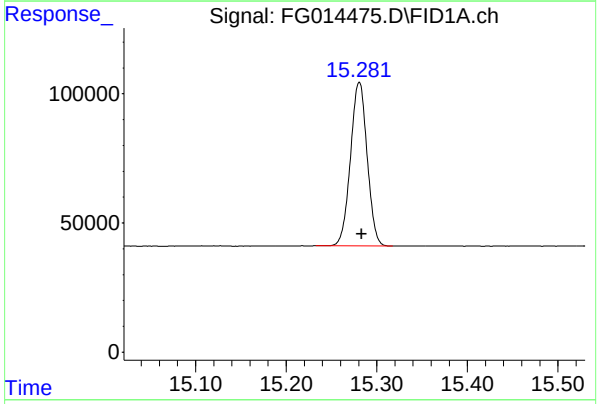
R.T.: 13.422 min
Delta R.T.: 0.000 min
Response: 685843
Conc: 5.79 ug/ml



#13 n-Docosane (C22)

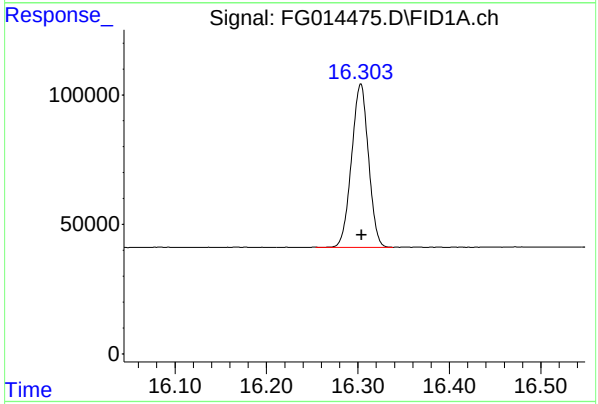
R.T.: 14.177 min
Delta R.T.: -0.001 min
Response: 794152
Conc: 5.89 ug/ml

Instrument :
FID_G
ClientSampleId :
5 PPM ALIPHATIC HC STD5



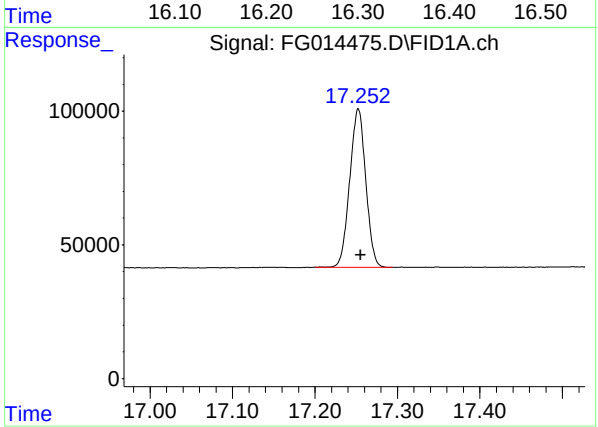
#14 n-Tetracosane (C24)

R.T.: 15.281 min
Delta R.T.: -0.003 min
Response: 809858
Conc: 5.97 ug/ml



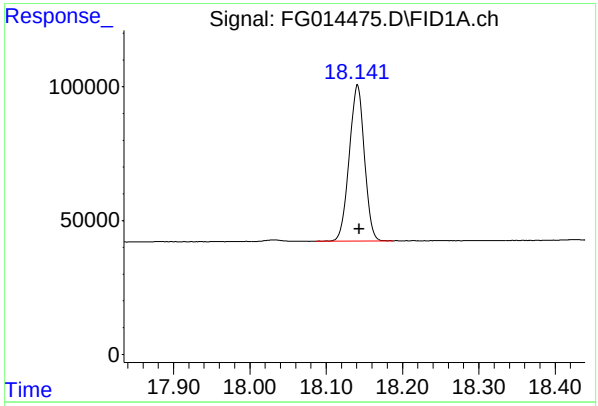
#15 n-Hexacosane (C26)

R.T.: 16.303 min
Delta R.T.: 0.000 min
Response: 809568
Conc: 6.03 ug/ml



#16 n-Octacosane (C28)

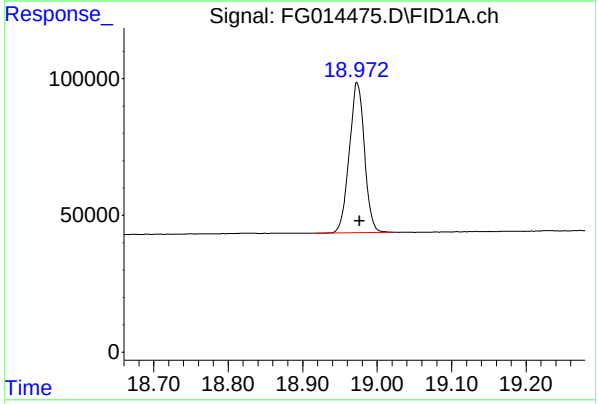
R.T.: 17.253 min
Delta R.T.: -0.002 min
Response: 799676
Conc: 6.11 ug/ml



#17 n-Tricontane (C30)

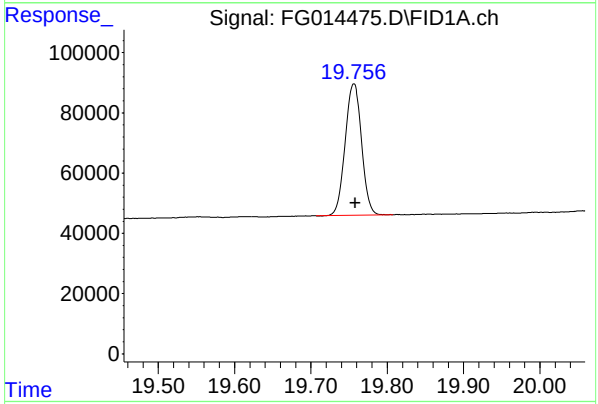
R.T.: 18.141 min
Delta R.T.: -0.002 min
Response: 812937
Conc: 6.19 ug/ml

Instrument :
FID_G
ClientSampleId :
5 PPM ALIPHATIC HC STD5



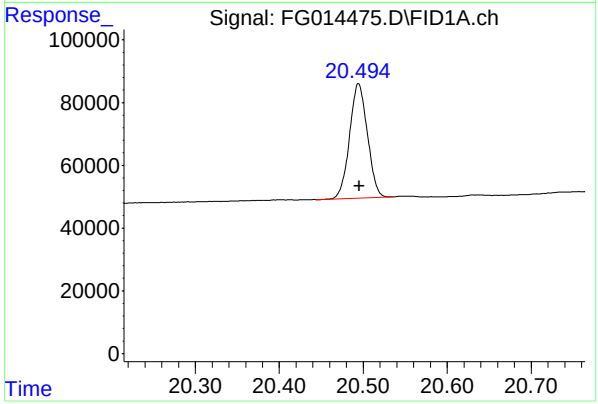
#18 n-Dotriacontane (C32)

R.T.: 18.973 min
Delta R.T.: -0.003 min
Response: 776653
Conc: 6.26 ug/ml



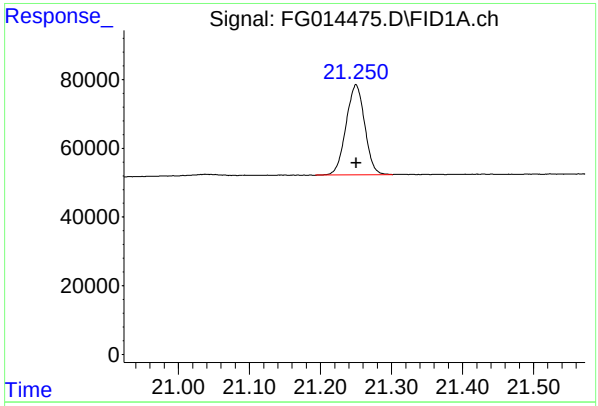
#19 n-Tetratriacontane (C34)

R.T.: 19.756 min
Delta R.T.: -0.002 min
Response: 658399
Conc: 6.18 ug/ml



#20 n-Hexatriacontane (C36)

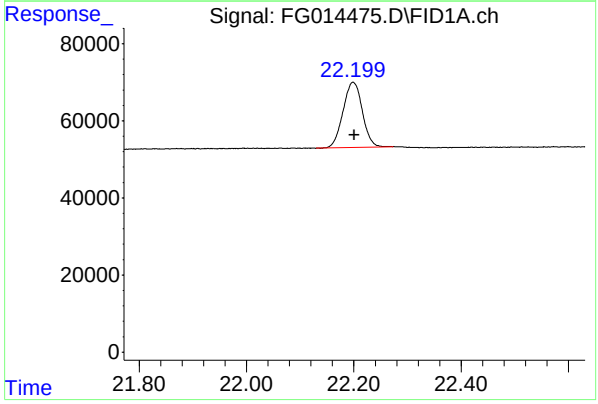
R.T.: 20.494 min
Delta R.T.: -0.001 min
Response: 538139
Conc: 6.02 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 21.250 min
Delta R.T.: 0.000 min
Response: 478182
Conc: 5.94 ug/ml

Instrument :
FID_G
ClientSampleId :
5 PPM ALIPHATIC HC STD5



#22 n-Tetracontane (C40)

R.T.: 22.199 min
Delta R.T.: -0.002 min
Response: 421491
Conc: 5.72 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG102124AL\
Data File : FG014475.D
Signal(s) : FID1A.ch
Acq On : 22 Oct 2024 02:54
Sample : 5 PPM ALIPHATIC HC STD5
Misc :
ALS Vial : 35 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 102124.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	3.347	3.307	3.390	BB	70114	694427	83.53%	4.374%
2	4.600	4.563	4.631	BB	70505	708440	85.21%	4.463%
3	6.307	6.273	6.338	BB	82679	770627	92.69%	4.854%
4	6.771	6.732	6.813	BB	70800	713929	85.87%	4.497%
5	7.405	7.365	7.438	BB	77065	748484	90.03%	4.715%
6	8.604	8.564	8.636	BB	68307	713297	85.80%	4.493%
7	10.217	10.175	10.258	BB	68016	752896	90.56%	4.743%
8	11.664	11.618	11.700	BB	68428	787466	94.72%	4.961%
9	11.982	11.940	12.025	BB	78086	831378	100.00%	5.237%
10	12.977	12.932	13.018	BB	64339	783230	94.21%	4.934%
11	13.422	13.378	13.459	BB	57371	685843	82.49%	4.320%
12	13.589	13.542	13.628	BB	64313	785615	94.50%	4.949%
13	14.177	14.129	14.215	BB	62779	794152	95.52%	5.003%
14	15.281	15.233	15.318	BB	63427	809858	97.41%	5.102%
15	16.303	16.254	16.338	BB	63182	809568	97.38%	5.100%
16	17.253	17.201	17.294	BB	59385	799676	96.19%	5.037%
17	18.141	18.087	18.188	BB	58487	812937	97.78%	5.121%
18	18.973	18.918	19.021	BB	54915	776653	93.42%	4.892%
19	19.756	19.707	19.808	BB	43659	658399	79.19%	4.147%
20	20.494	20.443	20.535	BB	36530	538139	64.73%	3.390%
21	21.250	21.193	21.302	BB	26322	478182	57.52%	3.012%
22	22.199	22.130	22.273	BB	16932	421491	50.70%	2.655%
			Sum of corrected areas:			15874687		

Aliphatic EPH 102124.M Tue Oct 22 07:03:53 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:	22 Oct 2024 03:23
Client Sample ID:	20 PPM ALIPHATIC HC S'	Operator:	YP\AJ
Data file:	FG014476.D	Misc:	
Instrument:	FID_G	ALS Vial:	36
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.247	6.872	10877080	82.815	300	ug/ml
Aliphatic C12-C16	6.873	10.317	8387838	61.756	200	ug/ml
Aliphatic C16-C21	10.318	13.691	8901222	63.017	300	ug/ml
Aliphatic C21-C28	13.692	17.354	11906488	84.695	400	ug/ml
Aliphatic C28-C40	17.355	22.301	13250611	125.376	600	ug/ml
Aliphatic EPH	3.247	22.301	53323239	417.66		ug/ml
ortho-Terphenyl (SURR)	11.985	11.985	3155986	20.59		ug/ml
1-chlorooctadecane (SURR)	13.423	13.423	2586371	21.06		ug/ml
Aliphatic C9-C28	3.247	17.354	40072628	292.283	1200	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG102124AL\
Data File : FG014476.D
Signal(s) : FID1A.ch
Acq On : 22 Oct 2024 03:23
Operator : YP\AJ
Sample : 20 PPM ALIPHATIC HC STD ICV
Misc :
ALS Vial : 36 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV

Integration File: autoint1.e
Quant Time: Oct 22 06:50:59 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 102124.M
Quant Title : GC Extractables
QLast Update : Tue Oct 22 06:49:54 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)	11.985	3155986	20.591 ug/ml
Spiked Amount	50.000		Recovery =	41.18%
12) S	1-chlorooctadecane (S...	13.423	2586371	21.063 ug/ml
Spiked Amount	50.000		Recovery =	42.13%
	Target Compounds			
1) T	n-Nonane (C9)	3.347	2616584	20.219 ug/ml
2) T	n-Decane (C10)	4.600	2665562	20.229 ug/ml
3) T	A~Naphthalene (C11.7)	6.307	2901812	20.229 ug/ml
4) T	n-Dodecane (C12)	6.772	2693122	20.273 ug/ml
5) T	A~2-methylnaphthalene...	7.406	2825092	20.250 ug/ml
6) T	n-Tetradecane (C14)	8.605	2704957	20.387 ug/ml
7) T	n-Hexadecane (C16)	10.218	2857789	20.565 ug/ml
8) T	n-Octadecane (C18)	11.665	2981784	20.829 ug/ml
10) T	n-Eicosane (C20)	12.978	2961317	21.058 ug/ml
11) T	n-Heneicosane (C21)	13.591	2958121	21.135 ug/ml
13) T	n-Docosane (C22)	14.178	2978947	21.177 ug/ml
14) T	n-Tetracosane (C24)	15.283	3019455	21.220 ug/ml
15) T	n-Hexacosane (C26)	16.304	2993405	21.207 ug/ml
16) T	n-Octacosane (C28)	17.255	2914681	21.089 ug/ml
17) T	n-Tricontane (C30)	18.143	2909995	20.995 ug/ml
18) T	n-Dotriacontane (C32)	18.974	2735700	20.895 ug/ml
19) T	n-Tetratriacontane (C34)	19.757	2337254	20.882 ug/ml
20) T	n-Hexatriacontane (C36)	20.496	1940381	20.847 ug/ml
21) T	n-Octatriacontane (C38)	21.249	1745357	20.890 ug/ml
22) T	n-Tetracontane (C40)	22.201	1581924	20.803 ug/ml

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

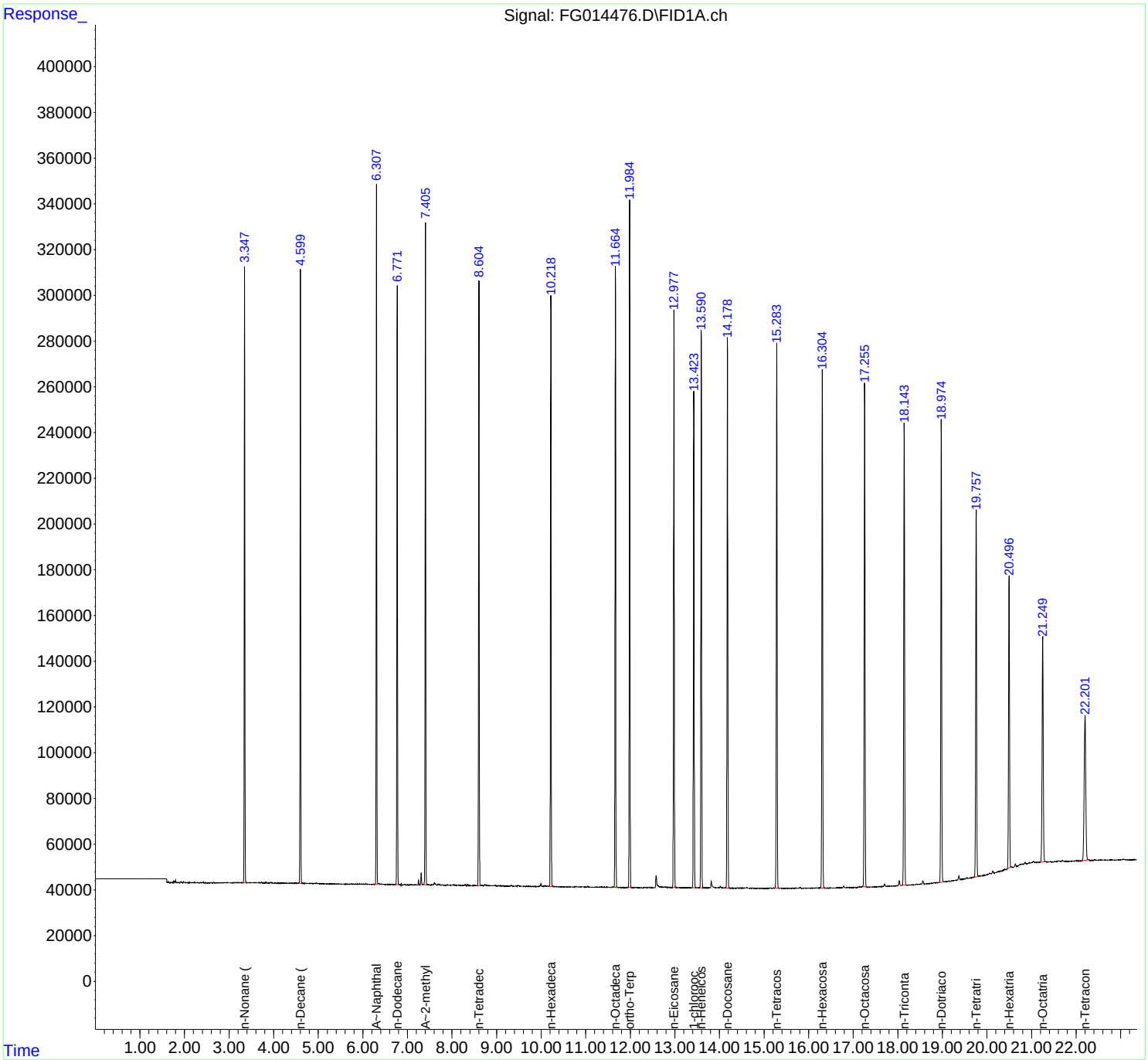
Quantitation Report (QT Reviewed)

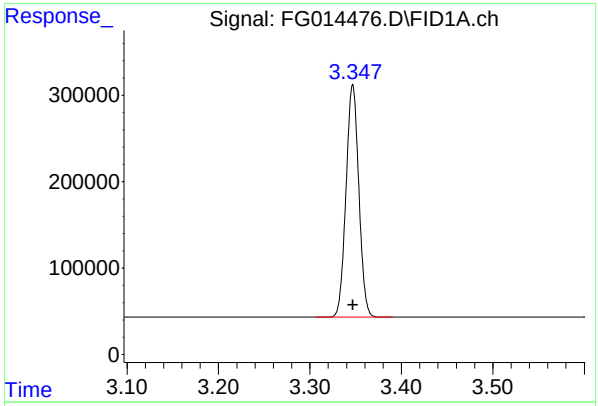
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG102124AL\
Data File : FG014476.D
Signal(s) : FID1A.ch
Acq On : 22 Oct 2024 03:23
Operator : YP\AJ
Sample : 20 PPM ALIPHATIC HC STD ICV
Misc :
ALS Vial : 36 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV

Integration File: autoint1.e
Quant Time: Oct 22 06:50:59 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 102124.M
Quant Title : GC Extractables
QLast Update : Tue Oct 22 06:49:54 2024
Response via : Initial Calibration
Integrator: ChemStation

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

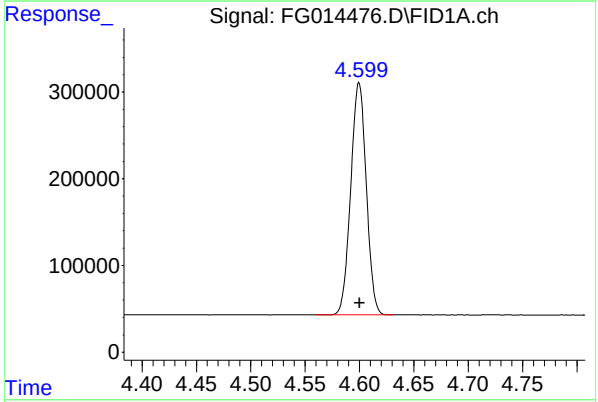




#1 n-Nonane (C9)

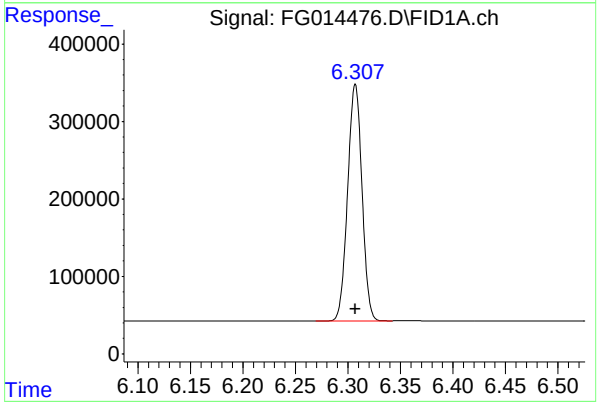
R.T.: 3.347 min
Delta R.T.: 0.000 min
Response: 2616584
Conc: 20.22 ug/ml

Instrument :
FID_G
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV



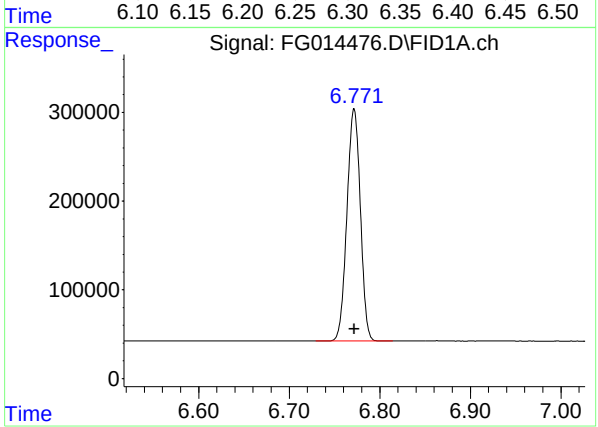
#2 n-Decane (C10)

R.T.: 4.600 min
Delta R.T.: 0.000 min
Response: 2665562
Conc: 20.23 ug/ml



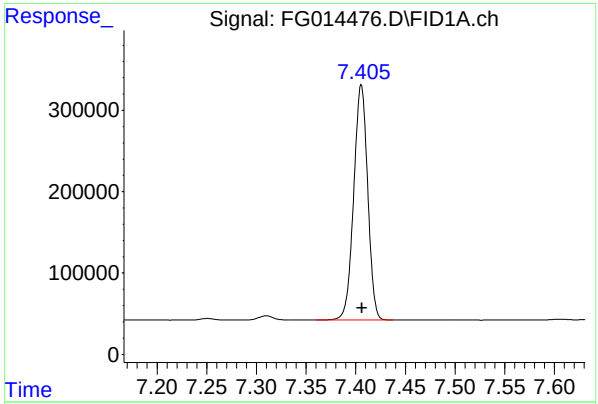
#3 A~Naphthalene (C11.7)

R.T.: 6.307 min
Delta R.T.: 0.000 min
Response: 2901812
Conc: 20.23 ug/ml



#4 n-Dodecane (C12)

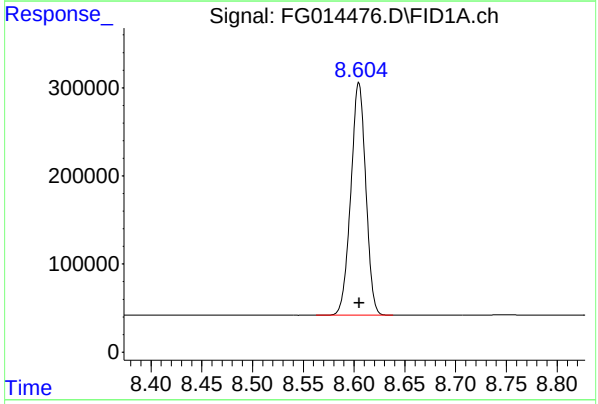
R.T.: 6.772 min
Delta R.T.: 0.000 min
Response: 2693122
Conc: 20.27 ug/ml



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

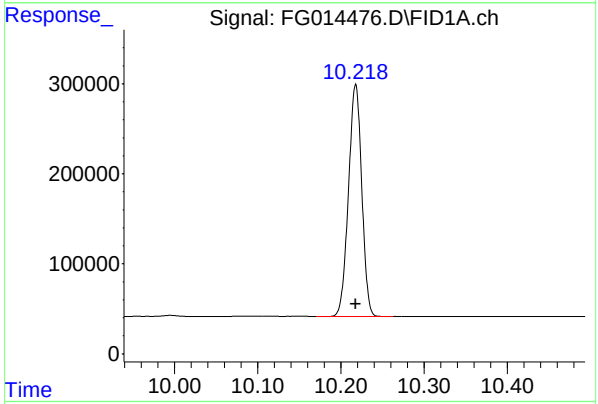
R.T.: 7.406 min
Delta R.T.: 0.000 min
Response: 2825092
Conc: 20.25 ug/ml

Instrument :
FID_G
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV



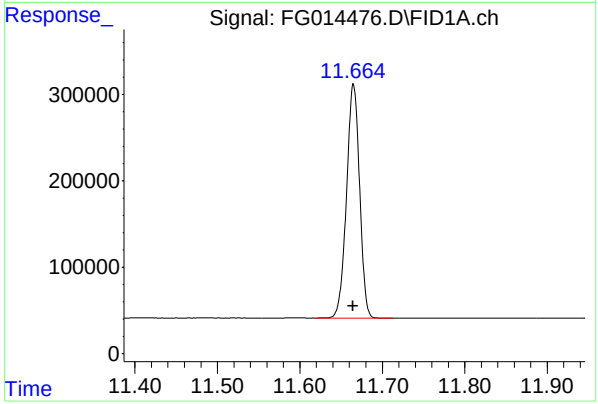
#6 n-Tetradecane (C14)

R.T.: 8.605 min
Delta R.T.: 0.000 min
Response: 2704957
Conc: 20.39 ug/ml



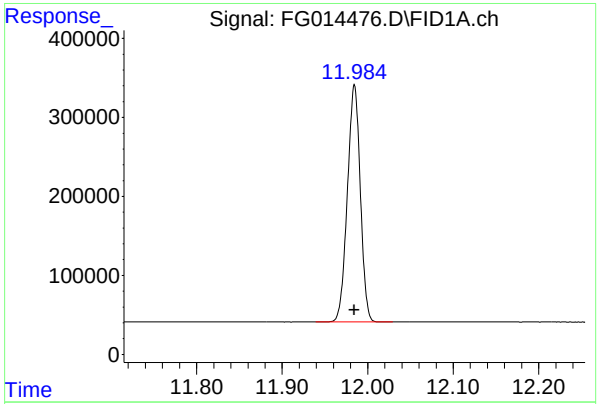
#7 n-Hexadecane (C16)

R.T.: 10.218 min
Delta R.T.: 0.000 min
Response: 2857789
Conc: 20.57 ug/ml



#8 n-Octadecane (C18)

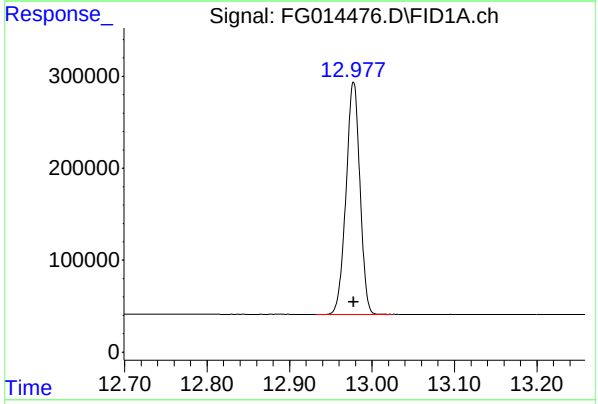
R.T.: 11.665 min
Delta R.T.: 0.000 min
Response: 2981784
Conc: 20.83 ug/ml



#9 ortho-Terphenyl (SURR)

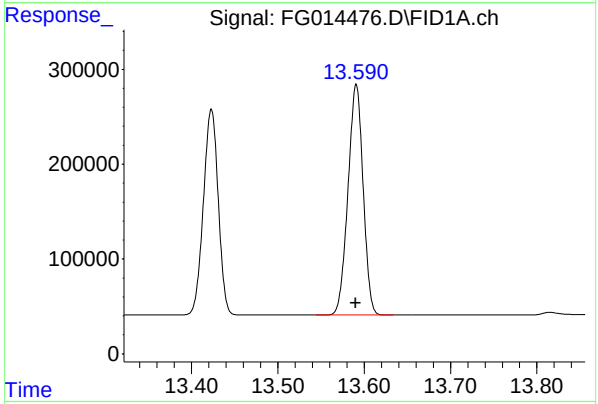
R.T.: 11.985 min
Delta R.T.: 0.000 min
Response: 3155986
Conc: 20.59 ug/ml

Instrument :
FID_G
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV



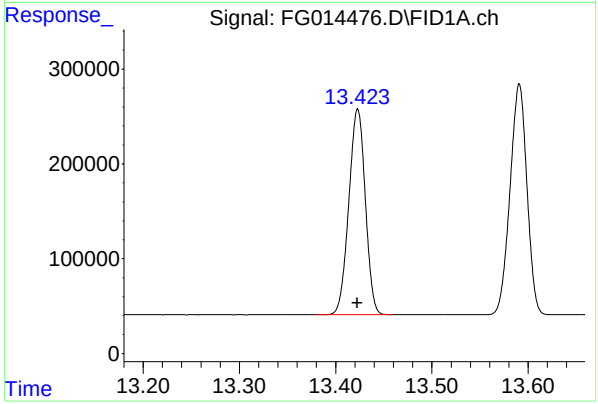
#10 n-Eicosane (C20)

R.T.: 12.978 min
Delta R.T.: 0.000 min
Response: 2961317
Conc: 21.06 ug/ml



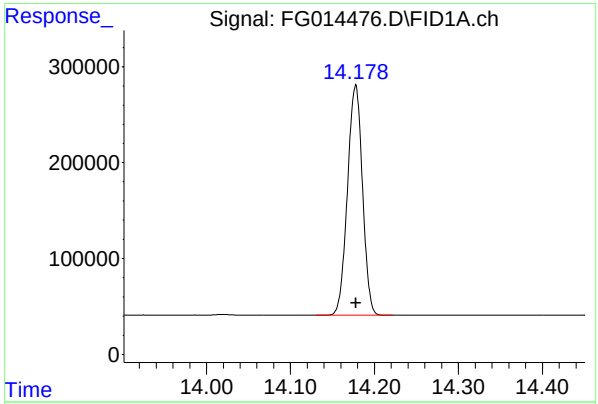
#11 n-Heneicosane (C21)

R.T.: 13.591 min
Delta R.T.: 0.000 min
Response: 2958121
Conc: 21.13 ug/ml



#12 1-chlorooctadecane (SURR)

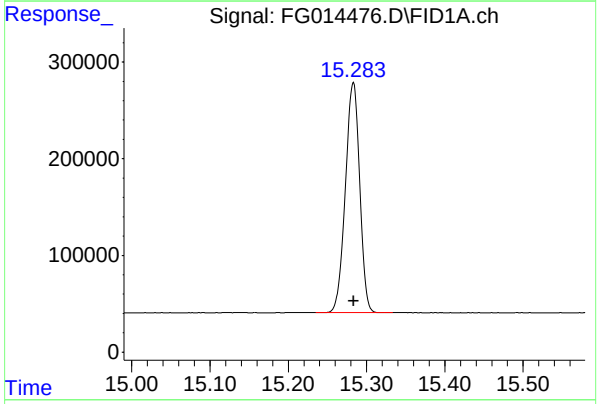
R.T.: 13.423 min
Delta R.T.: 0.000 min
Response: 2586371
Conc: 21.06 ug/ml



#13 n-Docosane (C22)

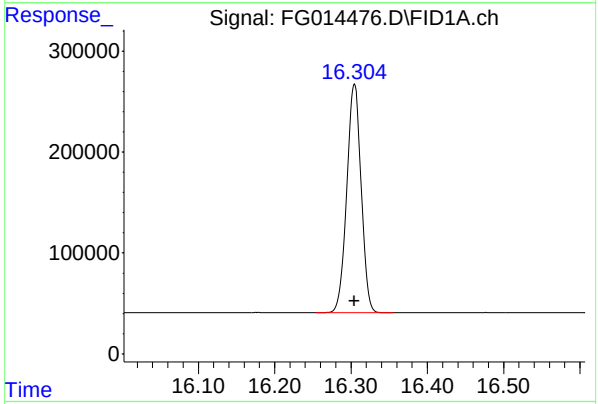
R.T.: 14.178 min
Delta R.T.: 0.000 min
Response: 2978947
Conc: 21.18 ug/ml

Instrument :
FID_G
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV



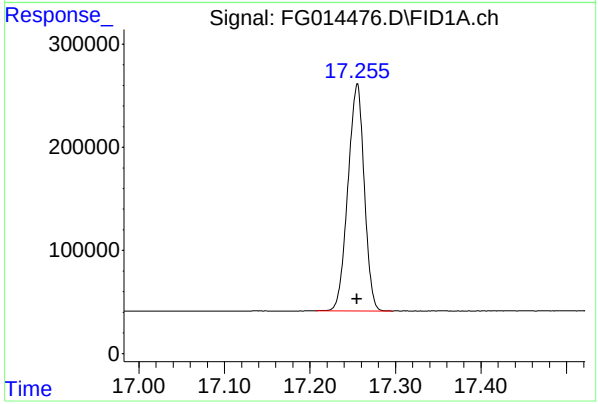
#14 n-Tetracosane (C24)

R.T.: 15.283 min
Delta R.T.: 0.000 min
Response: 3019455
Conc: 21.22 ug/ml



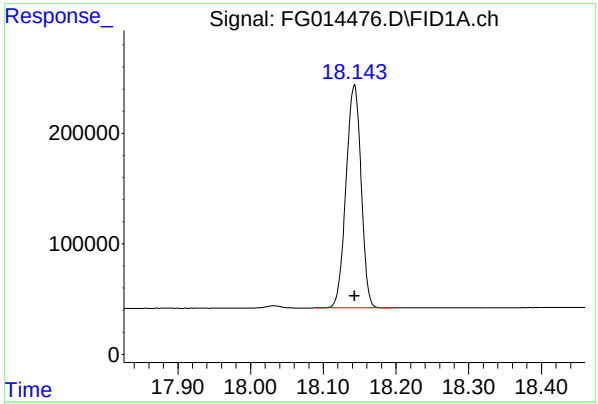
#15 n-Hexacosane (C26)

R.T.: 16.304 min
Delta R.T.: 0.000 min
Response: 2993405
Conc: 21.21 ug/ml



#16 n-Octacosane (C28)

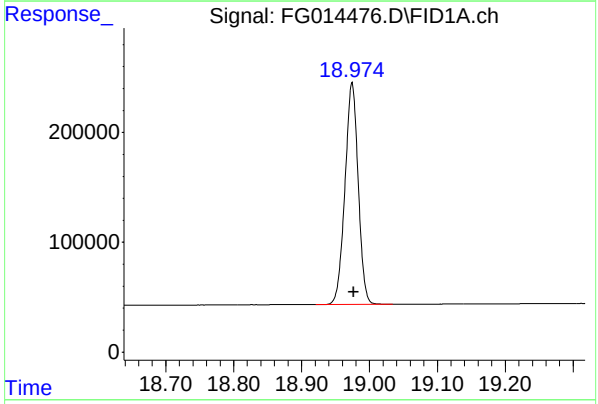
R.T.: 17.255 min
Delta R.T.: 0.000 min
Response: 2914681
Conc: 21.09 ug/ml



#17 n-Tricontane (C30)

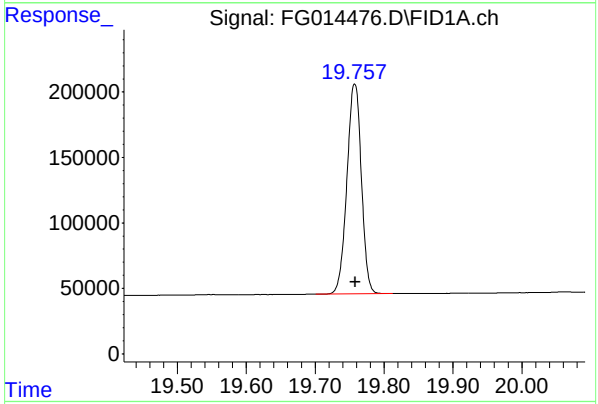
R.T.: 18.143 min
Delta R.T.: 0.000 min
Response: 2909995
Conc: 21.00 ug/ml

Instrument :
FID_G
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV



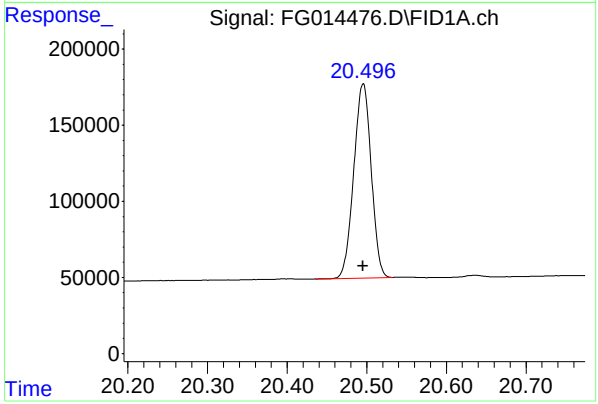
#18 n-Dotriacontane (C32)

R.T.: 18.974 min
Delta R.T.: -0.002 min
Response: 2735700
Conc: 20.90 ug/ml



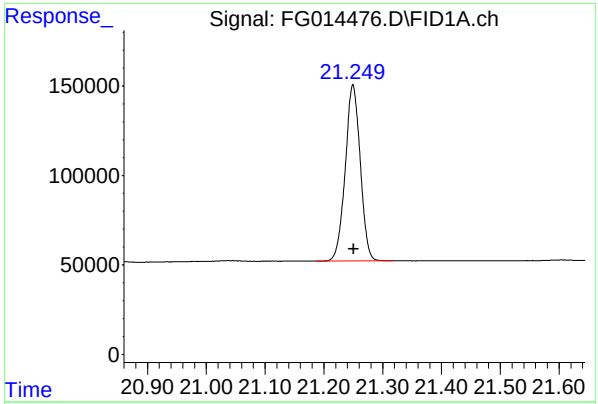
#19 n-Tetratriacontane (C34)

R.T.: 19.757 min
Delta R.T.: -0.001 min
Response: 2337254
Conc: 20.88 ug/ml



#20 n-Hexatriacontane (C36)

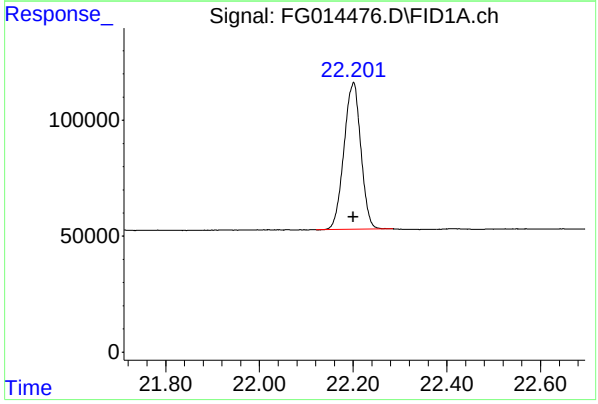
R.T.: 20.496 min
Delta R.T.: 0.000 min
Response: 1940381
Conc: 20.85 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 21.249 min
Delta R.T.: -0.001 mi
Response: 1745357
Conc: 20.89 ug/m

Instrument :
FID_G
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV



#22 n-Tetracontane (C40)

R.T.: 22.201 min
Delta R.T.: 0.000 min
Response: 1581924
Conc: 20.80 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG102124AL\
Data File : FG014476.D
Signal(s) : FID1A.ch
Acq On : 22 Oct 2024 03:23
Sample : 20 PPM ALIPHATIC HC STD ICV
Misc :
ALS Vial : 36 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 102124.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	3.347	3.307	3.391	BB	269182	2616584	82.91%	4.430%
2	4.600	4.560	4.631	BB	268004	2665562	84.46%	4.513%
3	6.307	6.269	6.343	BB	305722	2901812	91.95%	4.913%
4	6.772	6.729	6.814	BB	262108	2693122	85.33%	4.560%
5	7.406	7.360	7.438	BB	288988	2825092	89.52%	4.783%
6	8.605	8.563	8.638	BB	264130	2704957	85.71%	4.580%
7	10.218	10.170	10.263	BB	258015	2857789	90.55%	4.838%
8	11.665	11.619	11.713	BB	271382	2981784	94.48%	5.048%
9	11.985	11.939	12.029	BB	300269	3155986	100.00%	5.343%
10	12.978	12.932	13.025	BB	252752	2961317	93.83%	5.014%
11	13.423	13.379	13.459	BB	216908	2586371	81.95%	4.379%
12	13.591	13.544	13.633	BB	243732	2958121	93.73%	5.008%
13	14.178	14.130	14.222	BB	240179	2978947	94.39%	5.043%
14	15.283	15.235	15.333	BB	238420	3019455	95.67%	5.112%
15	16.304	16.254	16.355	BB	226653	2993405	94.85%	5.068%
16	17.255	17.207	17.297	BB	220636	2914681	92.35%	4.935%
17	18.143	18.090	18.196	BB	201918	2909995	92.21%	4.927%
18	18.974	18.921	19.034	BB	202203	2735700	86.68%	4.632%
19	19.757	19.701	19.813	BB	160301	2337254	74.06%	3.957%
20	20.496	20.436	20.533	BB	127782	1940381	61.48%	3.285%
21	21.249	21.187	21.318	BB	98643	1745357	55.30%	2.955%
22	22.201	22.121	22.285	BB	63474	1581924	50.12%	2.678%
			Sum of corrected areas:			59065598		

Aliphatic EPH 102124.M Tue Oct 22 07:04:12 2024

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

Continuing Calibration Report for SequenceID : FC110424AL

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
File ID :	**FC067603.D**						
Aliphatic C9-C12	6717063.000	60.000	3.171	6.449	111951.050	135469.641	17.361
Aliphatic C12-C16	4542791.000	40.000	6.450	9.838	113569.775	131681.730	13.754
Aliphatic C16-C21	6705686.000	60.000	9.839	13.196	111761.433	127235.092	12.161
Aliphatic C21-C28	9434544.000	80.000	13.197	16.847	117931.800	120090.398	1.797
Aliphatic C28-C40	12391946.000	120.000	16.848	21.685	103266.217	101093.195	-2.150
Aliphatic EPH	39792030.000	360.000	3.171	21.685	110533.417	118799.912	6.958

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:	04 Nov 2024 10:28
Client Sample ID:		Operator:	YP/AJ
Data file:	FC067603.D	Misc:	
Instrument:	FID_C	ALS Vial:	3
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aliphatic C9-C12	3.171	6.449	6717063.000	60.000	ug/ml
Aliphatic C12-C16	6.450	9.838	4542791.000	40.000	ug/ml
Aliphatic C16-C21	9.839	13.196	6705686.000	60.000	ug/ml
Aliphatic C21-C28	13.197	16.847	9434544.000	80.000	ug/ml
Aliphatic C28-C40	16.848	21.685	12391946.000	120.000	ug/ml
Aliphatic EPH	3.171	21.685	39792030.000	360.000	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC110424AL\
Data File : FC067603.D
Signal(s) : FID1A.ch
Acq On : 04 Nov 2024 10:28
Operator : YP/AJ
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD

Integration File: autoint1.e
Quant Time: Nov 05 03:43:49 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)	11.488	2501346	17.047 ug/ml
Spiked Amount	50.000		Recovery =	34.09%
12)	S 1-chlorooctadecane (S...	12.926	1823015	16.882 ug/ml
Spiked Amount	50.000		Recovery =	33.76%
	Target Compounds			
1)	T n-Nonane (C9)	3.271	2157848	16.017 ug/ml
2)	T n-Decane (C10)	4.335	2270886	16.668 ug/ml
3)	T A~Naphthalene (C11.7)	5.912	2464414	16.630 ug/ml
4)	T n-Dodecane (C12)	6.349	2288329	16.895 ug/ml
5)	T A~2-methylnaphthalene...	6.966	2355629	16.680 ug/ml
6)	T n-Tetradecane (C14)	8.141	2245109	17.104 ug/ml
7)	T n-Hexadecane (C16)	9.738	2297682	17.393 ug/ml
8)	T n-Octadecane (C18)	11.178	2319783	17.559 ug/ml
10)	T n-Eicosane (C20)	12.484	2223355	17.621 ug/ml
11)	T n-Heneicosane (C21)	13.096	2162548	17.523 ug/ml
13)	T n-Docosane (C22)	13.680	2210929	18.056 ug/ml
14)	T n-Tetracosane (C24)	14.782	2306350	19.028 ug/ml
15)	T n-Hexacosane (C26)	15.800	2399067	20.151 ug/ml
16)	T n-Octacosane (C28)	16.747	2518198	21.405 ug/ml
17)	T n-Tricontane (C30)	17.634	2715311	22.464 ug/ml
18)	T n-Dotriacontane (C32)	18.465	2701244	22.830 ug/ml
19)	T n-Tetratriacontane (C34)	19.246	2235731	21.348 ug/ml
20)	T n-Hexatriacontane (C36)	19.984	1772520	19.472 ug/ml
21)	T n-Octatriacontane (C38)	20.705	1560074	18.014 ug/ml
22)	T n-Tetracontane (C40)	21.585	1407066	16.552 ug/ml

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

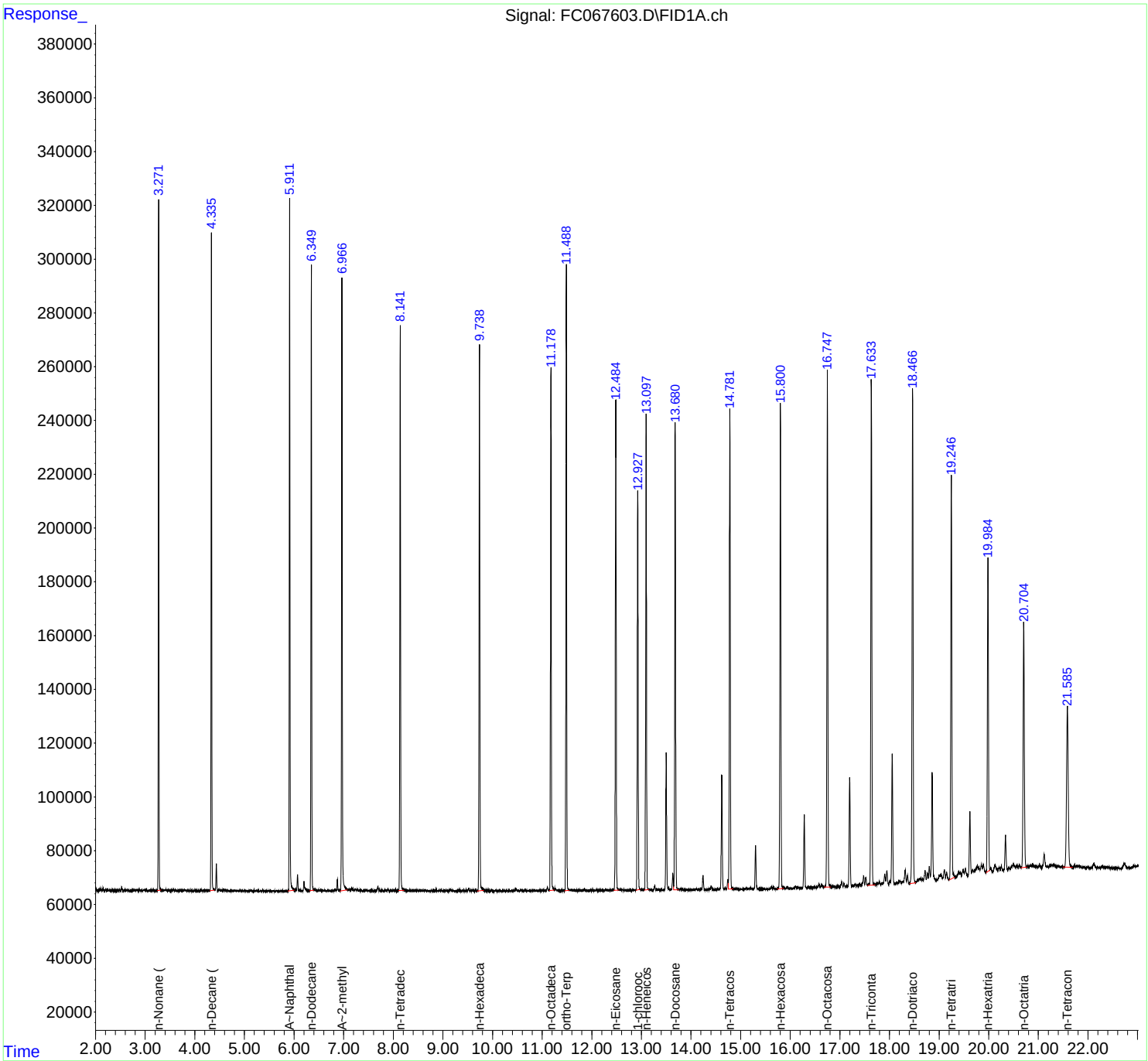
Quantitation Report (QT Reviewed)

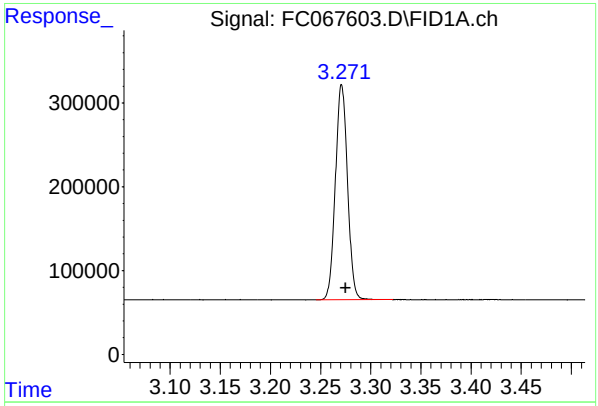
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC110424AL\
Data File : FC067603.D
Signal(s) : FID1A.ch
Acq On : 04 Nov 2024 10:28
Operator : YP/AJ
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD

Integration File: autoint1.e
Quant Time: Nov 05 03:43:49 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

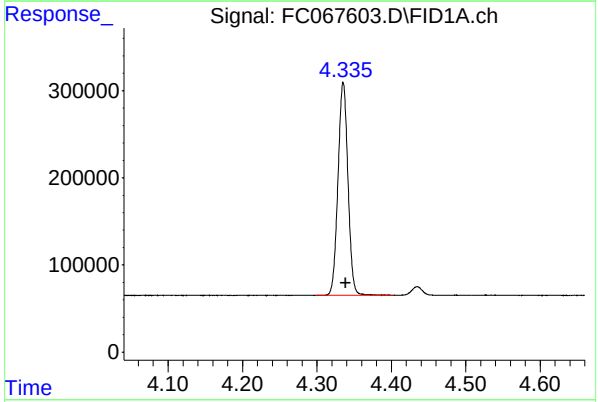




#1 n-Nonane (C9)

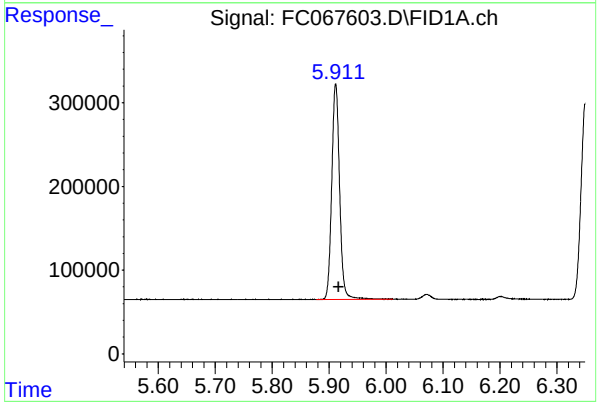
R.T.: 3.271 min
Delta R.T.: -0.004 min
Response: 2157848
Conc: 16.02 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD



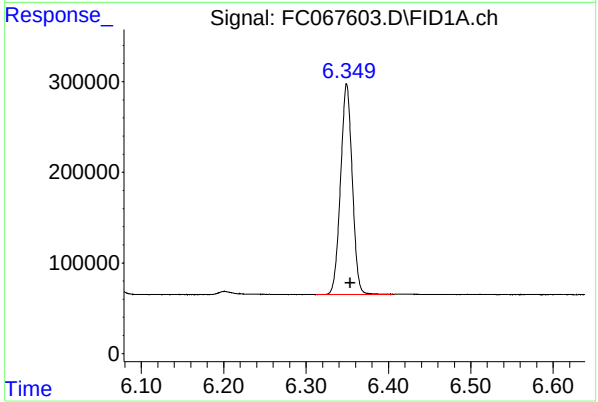
#2 n-Decane (C10)

R.T.: 4.335 min
Delta R.T.: -0.003 min
Response: 2270886
Conc: 16.67 ug/ml



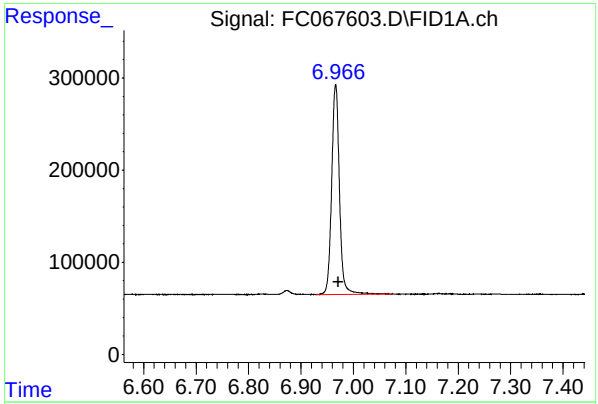
#3 A~Naphthalene (C11.7)

R.T.: 5.912 min
Delta R.T.: -0.005 min
Response: 2464414
Conc: 16.63 ug/ml



#4 n-Dodecane (C12)

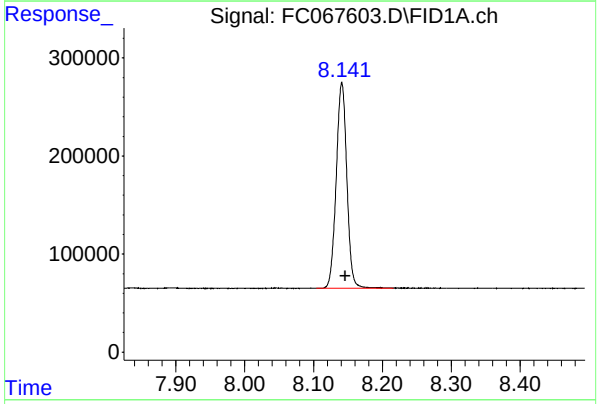
R.T.: 6.349 min
Delta R.T.: -0.004 min
Response: 2288329
Conc: 16.90 ug/ml



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

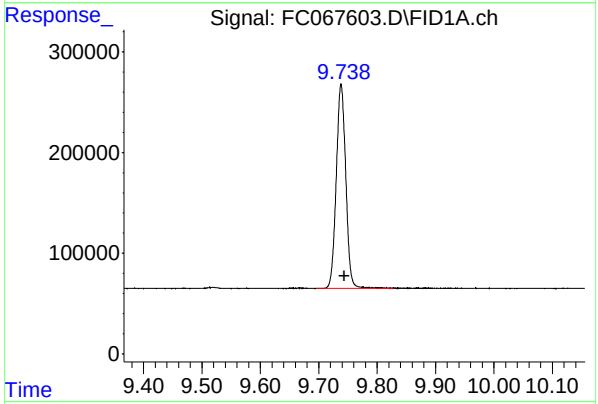
R.T.: 6.966 min
Delta R.T.: -0.005 min
Response: 2355629
Conc: 16.68 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD



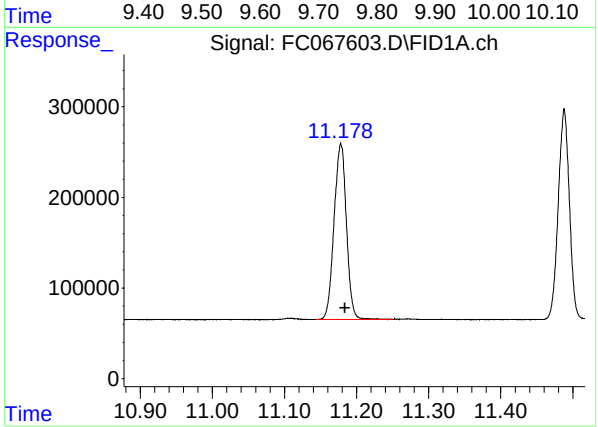
#6 n-Tetradecane (C14)

R.T.: 8.141 min
Delta R.T.: -0.005 min
Response: 2245109
Conc: 17.10 ug/ml



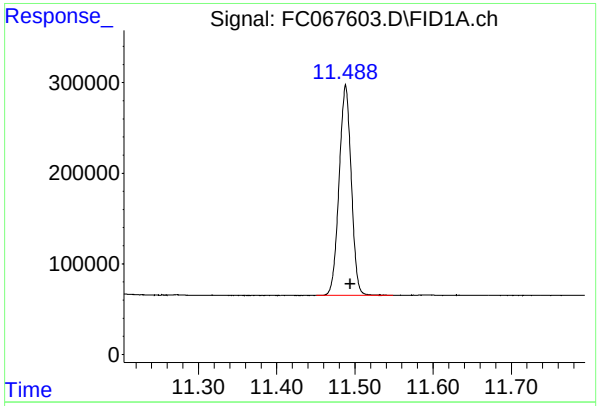
#7 n-Hexadecane (C16)

R.T.: 9.738 min
Delta R.T.: -0.005 min
Response: 2297682
Conc: 17.39 ug/ml



#8 n-Octadecane (C18)

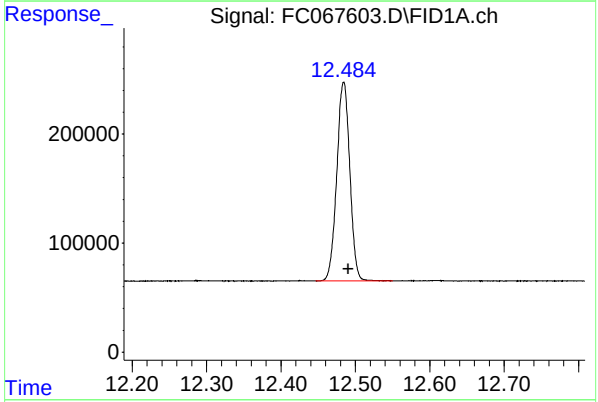
R.T.: 11.178 min
Delta R.T.: -0.005 min
Response: 2319783
Conc: 17.56 ug/ml



#9 ortho-Terphenyl (SURR)

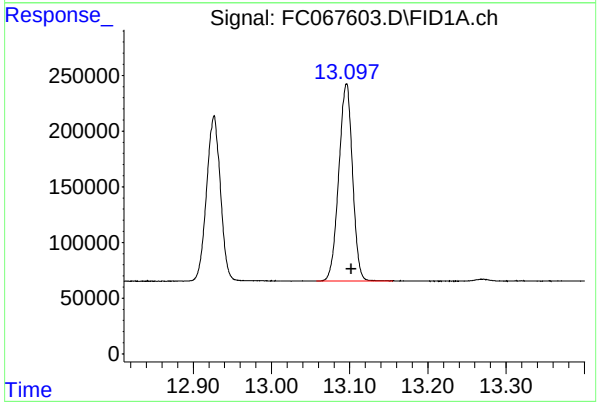
R.T.: 11.488 min
Delta R.T.: -0.006 min
Response: 2501346
Conc: 17.05 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD



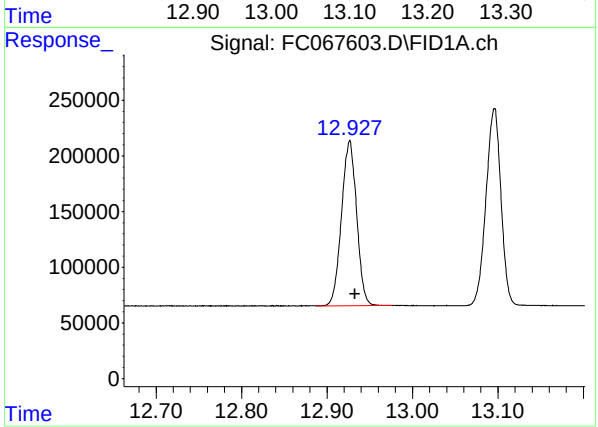
#10 n-Eicosane (C20)

R.T.: 12.484 min
Delta R.T.: -0.007 min
Response: 2223355
Conc: 17.62 ug/ml



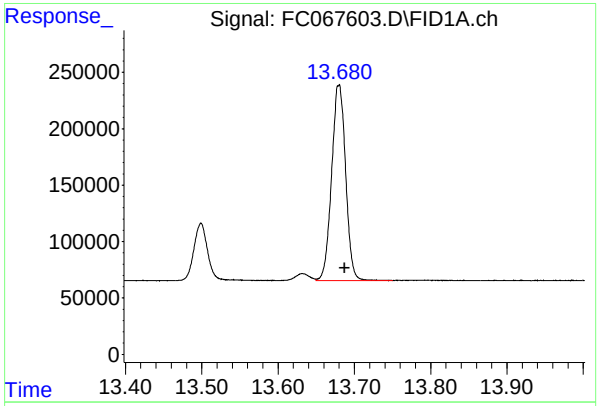
#11 n-Heneicosane (C21)

R.T.: 13.096 min
Delta R.T.: -0.006 min
Response: 2162548
Conc: 17.52 ug/ml



#12 1-chlorooctadecane (SURR)

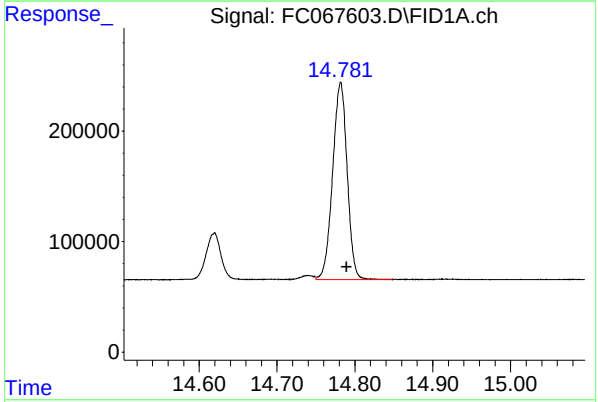
R.T.: 12.926 min
Delta R.T.: -0.007 min
Response: 1823015
Conc: 16.88 ug/ml



#13 n-Docosane (C22)

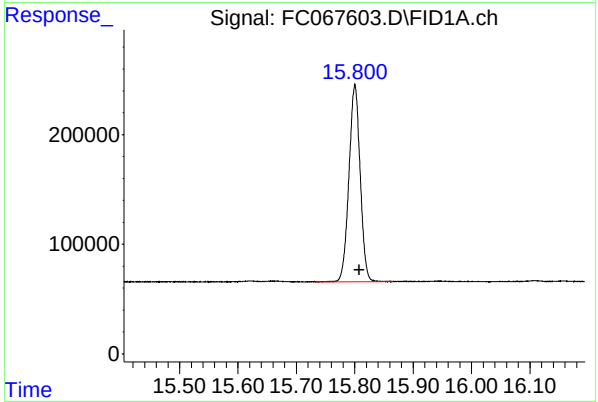
R.T.: 13.680 min
Delta R.T.: -0.007 min
Response: 2210929
Conc: 18.06 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD



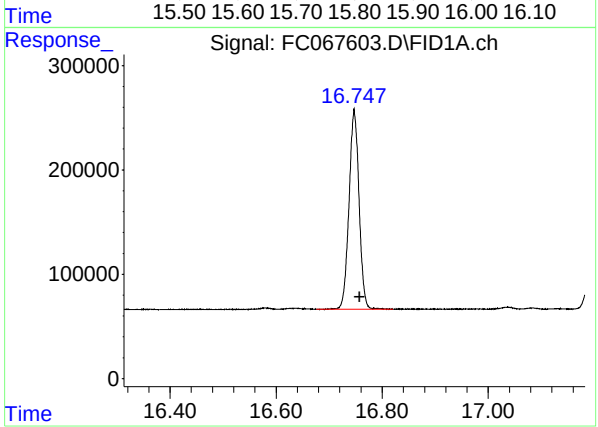
#14 n-Tetracosane (C24)

R.T.: 14.782 min
Delta R.T.: -0.008 min
Response: 2306350
Conc: 19.03 ug/ml



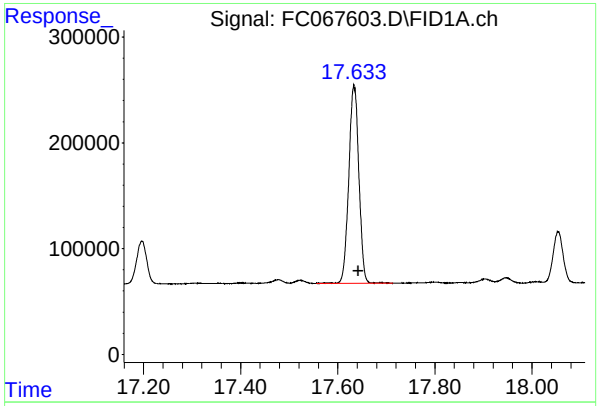
#15 n-Hexacosane (C26)

R.T.: 15.800 min
Delta R.T.: -0.008 min
Response: 2399067
Conc: 20.15 ug/ml



#16 n-Octacosane (C28)

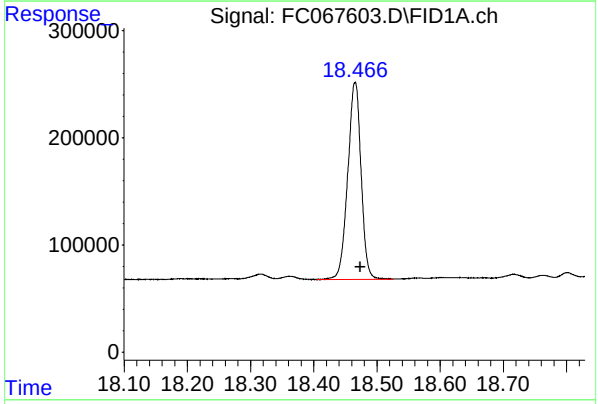
R.T.: 16.747 min
Delta R.T.: -0.010 min
Response: 2518198
Conc: 21.40 ug/ml



#17 n-Tricontane (C30)

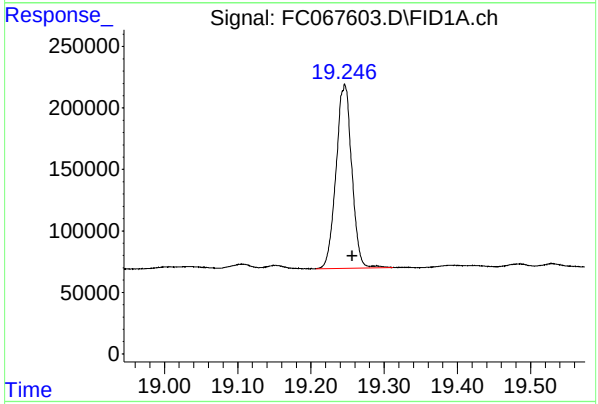
R.T.: 17.634 min
Delta R.T.: -0.009 min
Response: 2715311
Conc: 22.46 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD



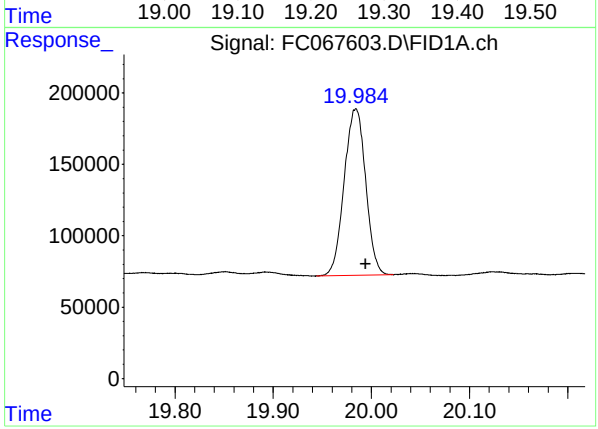
#18 n-Dotriacontane (C32)

R.T.: 18.465 min
Delta R.T.: -0.008 min
Response: 2701244
Conc: 22.83 ug/ml



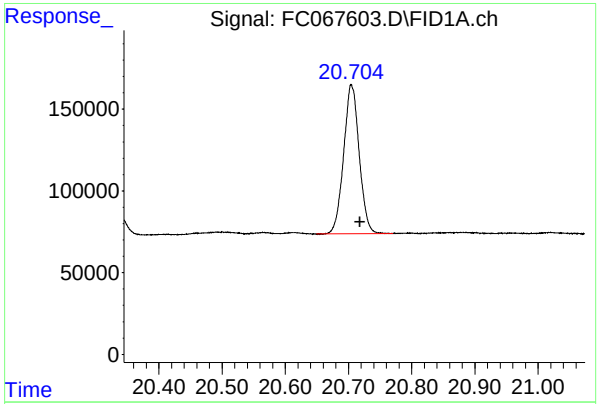
#19 n-Tetratriacontane (C34)

R.T.: 19.246 min
Delta R.T.: -0.011 min
Response: 2235731
Conc: 21.35 ug/ml



#20 n-Hexatriacontane (C36)

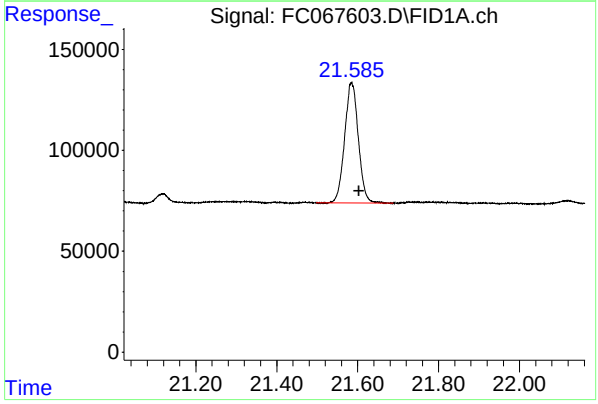
R.T.: 19.984 min
Delta R.T.: -0.010 min
Response: 1772520
Conc: 19.47 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 20.705 min
Delta R.T.: -0.013 min
Response: 1560074
Conc: 18.01 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD



#22 n-Tetracontane (C40)

R.T.: 21.585 min
Delta R.T.: -0.019 min
Response: 1407066
Conc: 16.55 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC110424AL\
Data File : FC067603.D
Signal(s) : FID1A.ch
Acq On : 04 Nov 2024 10:28
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 3 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	3.271	3.245	3.322	BB	257236	2157848	79.47%	4.409%
2	4.335	4.299	4.402	BB	244670	2270886	83.63%	4.640%
3	5.912	5.877	6.012	BB	257448	2464414	90.76%	5.036%
4	6.349	6.312	6.405	BB	232807	2288329	84.28%	4.676%
5	6.966	6.929	7.075	BB	228922	2355629	86.75%	4.814%
6	8.141	8.104	8.215	BB	209461	2245109	82.68%	4.588%
7	9.738	9.695	9.827	BB	202796	2297682	84.62%	4.695%
8	11.178	11.144	11.250	BV	193729	2319783	85.43%	4.740%
9	11.488	11.450	11.549	BB	232469	2501346	92.12%	5.111%
10	12.484	12.447	12.550	BB	182496	2223355	81.88%	4.543%
11	12.926	12.887	12.977	BB	149205	1823015	67.14%	3.725%
12	13.096	13.057	13.155	BB	177235	2162548	79.64%	4.419%
13	13.680	13.650	13.750	VB	173657	2210929	81.42%	4.518%
14	14.782	14.750	14.849	VB	179190	2306350	84.94%	4.713%
15	15.800	15.734	15.865	BB	180550	2399067	88.35%	4.902%
16	16.747	16.675	16.820	BB	190645	2518198	92.74%	5.146%
17	17.634	17.555	17.714	VB	186501	2715311	100.00%	5.549%
18	18.465	18.404	18.525	PV	183625	2701244	99.48%	5.520%
19	19.246	19.207	19.312	BB	148637	2235731	82.34%	4.569%
20	19.984	19.944	20.022	PV	116310	1772520	65.28%	3.622%
21	20.705	20.649	20.770	BB	90727	1560074	57.45%	3.188%
22	21.585	21.497	21.687	BB	59897	1407066	51.82%	2.875%
			Sum of corrected areas:			48936432		

Aliphatic EPH 102324.M Tue Nov 05 05:27:05 2024

Evaluate Continuing Calibration Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC110424AL\
Data File : FC067603.D
Signal(s) : FID1A.ch
Acq On : 04 Nov 2024 10:28
Operator : YP/AJ
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
FID_C
LabSampleId :
20 PPM ALIPHATIC HC STD

Integration File: autoint1.e
Quant Time: Nov 05 03:43:49 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	107.892	E3	19.9	81	0.00
2	T	n-Decane (C10)	136.246	113.544	E3	16.7	84	0.00
3	T	A~Naphthalene (C11.7)	148.188	123.221	E3	16.8	84	0.00
4	T	n-Dodecane (C12)	135.442	114.416	E3	15.5	85	0.00
5	T	A~2-methylnaphthalene (C12.	141.221	117.781	E3	16.6	84	0.00
6	T	n-Tetradecane (C14)	131.261	112.255	E3	14.5	86	0.00
7	T	n-Hexadecane (C16)	132.103	114.884	E3	13.0	88	0.00
8	T	n-Octadecane (C18)	132.113	115.989	E3	12.2	89	0.00
9	S	ortho-Terphenyl (SURR)	146.731	125.067	E3	14.8	87	0.00
10	T	n-Eicosane (C20)	126.177	111.168	E3	11.9	89	0.00
11	T	n-Heneicosane (C21)	123.415	108.127	E3	12.4	89	0.00
12	S	1-chlorooctadecane (SURR)	107.988	91.151	E3	15.6	86	0.00
13	T	n-Docosane (C22)	122.449	110.546	E3	9.7	92	0.00
14	T	n-Tetracosane (C24)	121.210	115.317	E3	4.9	97	0.00
15	T	n-Hexacosane (C26)	119.056	119.953	E3	-0.8	102	0.00
16	T	n-Octacosane (C28)	117.647	125.910	E3	-7.0	109	-0.01
17	T	n-Tricontane (C30)	120.871	135.766	E3	-12.3	114	0.00
18	T	n-Dotriacontane (C32)	118.320	135.062	E3	-14.1	116	0.00
19	T	n-Tetratriacontane (C34)	104.727	111.787	E3	-6.7	108	-0.01
20	T	n-Hexatriacontane (C36)	91.027	88.626	E3	2.6	99	-0.01
21	T	n-Octatriacontane (C38)	86.602	78.004	E3	9.9	91	-0.01
22	T	n-Tetracontane (C40)	85.011	70.353	E3	17.2	84	-0.02

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 : FC110424AL

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
File ID :	**FC067620.D**						
Aliphatic C9-C12	6826520.000	60.000	3.171	6.449	113775.333	135469.641	16.014
Aliphatic C12-C16	4602310.000	40.000	6.450	9.838	115057.750	131681.730	12.624
Aliphatic C16-C21	6798172.000	60.000	9.839	13.196	113302.867	127235.092	10.950
Aliphatic C21-C28	9635919.000	80.000	13.197	16.847	120448.988	120090.398	-0.299
Aliphatic C28-C40	13142304.000	120.000	16.848	21.685	109519.200	101093.195	-8.335
Aliphatic EPH	41005225.000	360.000	3.171	21.685	113903.403	118799.912	4.122

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

Lab Sample ID:	20 PPM ALIPHATIC HC S	Acq On:	05 Nov 2024 02:22
Client Sample ID:		Operator:	YP/AJ
Data file:	FC067620.D	Misc:	
Instrument:	FID_C	ALS Vial:	2
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aliphatic C9-C12	3.171	6.449	6826520.000	60.000	ug/ml
Aliphatic C12-C16	6.450	9.838	4602310.000	40.000	ug/ml
Aliphatic C16-C21	9.839	13.196	6798172.000	60.000	ug/ml
Aliphatic C21-C28	13.197	16.847	9635919.000	80.000	ug/ml
Aliphatic C28-C40	16.848	21.685	13142304.000	120.000	ug/ml
Aliphatic EPH	3.171	21.685	41005225.000	360.000	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC110424AL\
Data File : FC067620.D
Signal(s) : FID1A.ch
Acq On : 05 Nov 2024 02:22
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: autoint1.e
Quant Time: Nov 05 03:46:35 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)	11.489	2534328	17.272 ug/ml
Spiked Amount	50.000		Recovery =	34.54%
12) S	1-chlorooctadecane (S...	12.928	1893057	17.530 ug/ml
Spiked Amount	50.000		Recovery =	35.06%
	Target Compounds			
1) T	n-Nonane (C9)	3.271	2195901	16.300 ug/ml
2) T	n-Decane (C10)	4.335	2309064	16.948 ug/ml
3) T	A~Naphthalene (C11.7)	5.912	2503795	16.896 ug/ml
4) T	n-Dodecane (C12)	6.350	2321555	17.141 ug/ml
5) T	A~2-methylnaphthalene...	6.966	2387150	16.904 ug/ml
6) T	n-Tetradecane (C14)	8.142	2281242	17.379 ug/ml
7) T	n-Hexadecane (C16)	9.740	2321068	17.570 ug/ml
8) T	n-Octadecane (C18)	11.178	2350822	17.794 ug/ml
10) T	n-Eicosane (C20)	12.486	2253924	17.863 ug/ml
11) T	n-Heneicosane (C21)	13.096	2193426	17.773 ug/ml
13) T	n-Docosane (C22)	13.681	2242488	18.314 ug/ml
14) T	n-Tetracosane (C24)	14.782	2350637	19.393 ug/ml
15) T	n-Hexacosane (C26)	15.801	2450773	20.585 ug/ml
16) T	n-Octacosane (C28)	16.750	2592021	22.032 ug/ml
17) T	n-Tricontane (C30)	17.635	2795675	23.129 ug/ml
18) T	n-Dotriacontane (C32)	18.465	2810675	23.755 ug/ml
19) T	n-Tetratriacontane (C34)	19.248	2368193	22.613 ug/ml
20) T	n-Hexatriacontane (C36)	19.985	1888915	20.751 ug/ml
21) T	n-Octatriacontane (C38)	20.706	1691856	19.536 ug/ml
22) T	n-Tetracontane (C40)	21.588	1586990	18.668 ug/ml

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

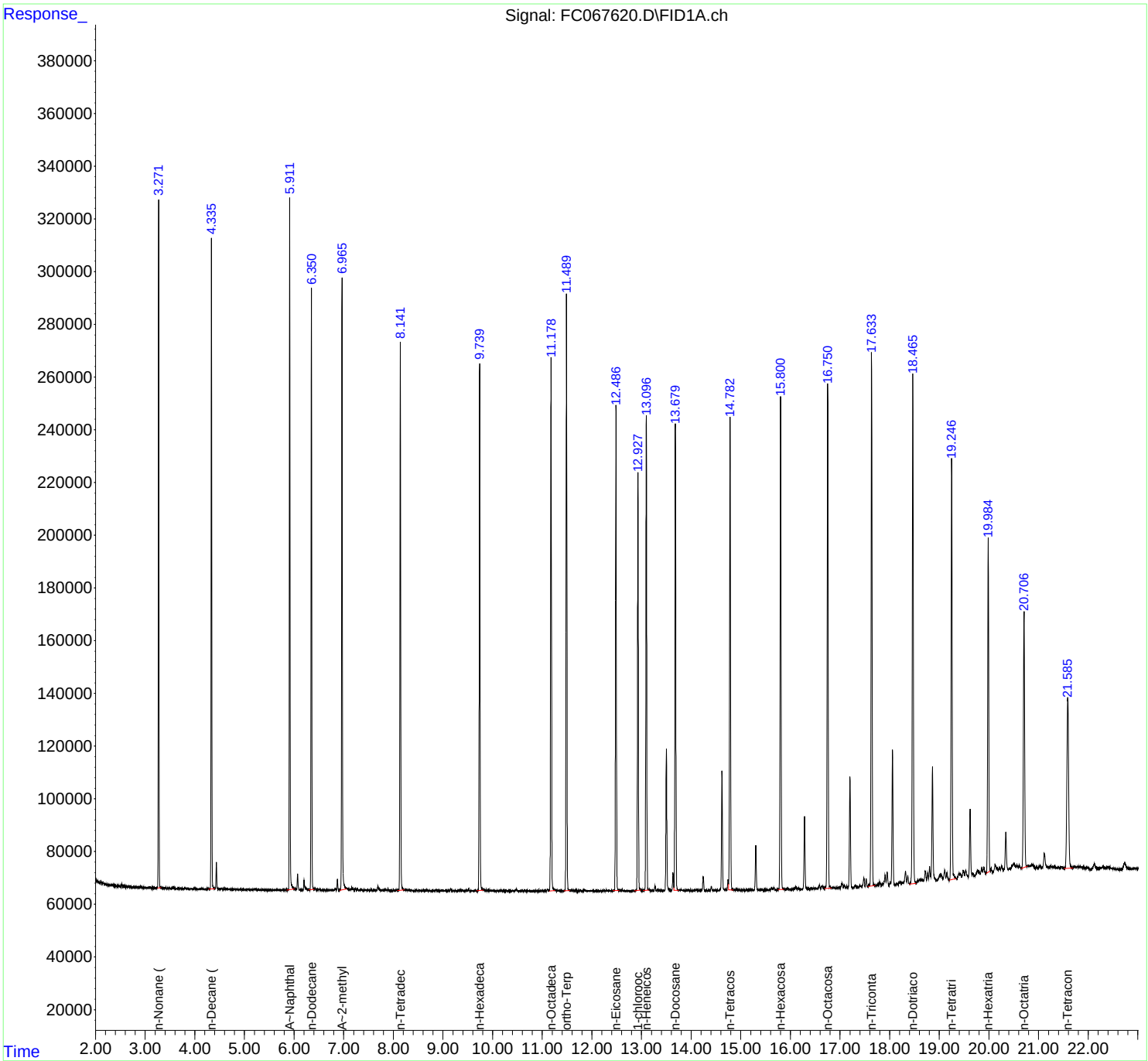
Quantitation Report (QT Reviewed)

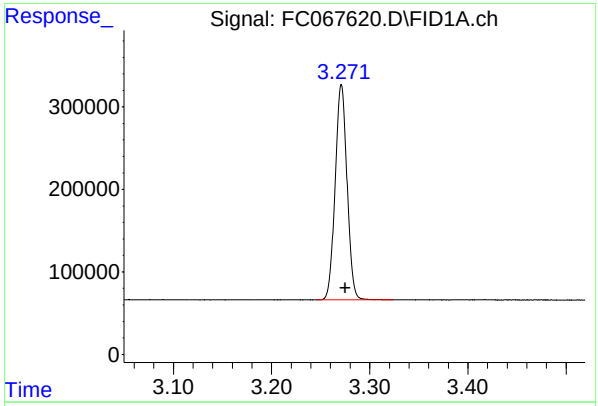
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC110424AL\
Data File : FC067620.D
Signal(s) : FID1A.ch
Acq On : 05 Nov 2024 02:22
Operator : YP/AJ
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD

Integration File: autoint1.e
Quant Time: Nov 05 03:46:35 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

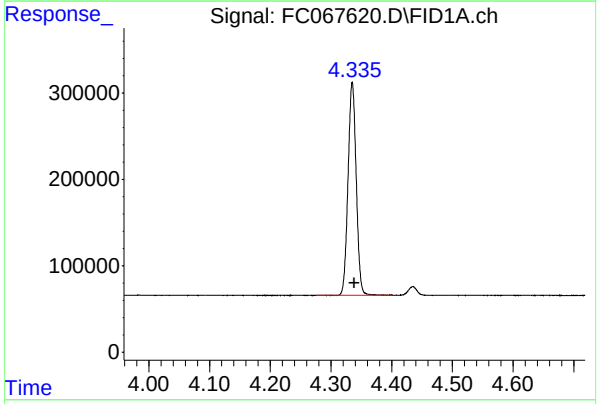




#1 n-Nonane (C9)

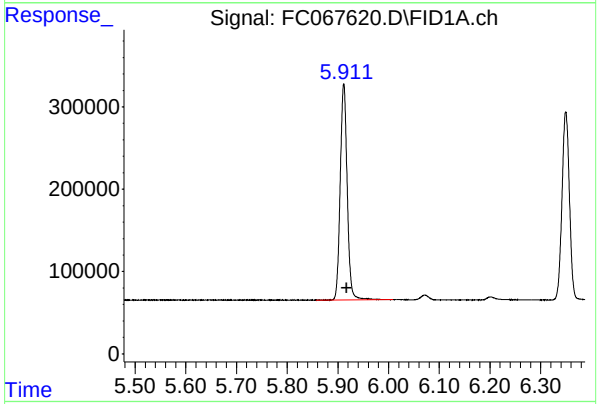
R.T.: 3.271 min
Delta R.T.: -0.004 min
Response: 2195901
Conc: 16.30 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD



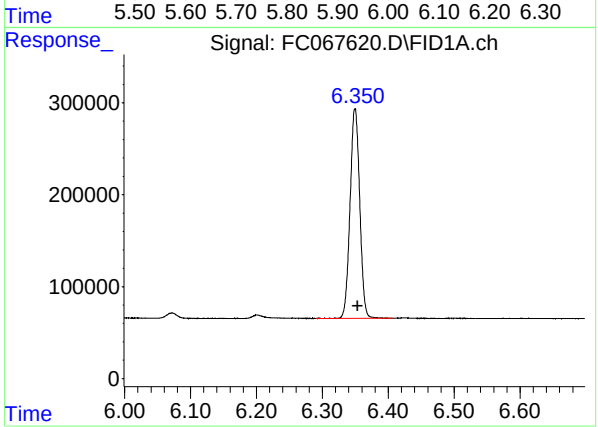
#2 n-Decane (C10)

R.T.: 4.335 min
Delta R.T.: -0.003 min
Response: 2309064
Conc: 16.95 ug/ml



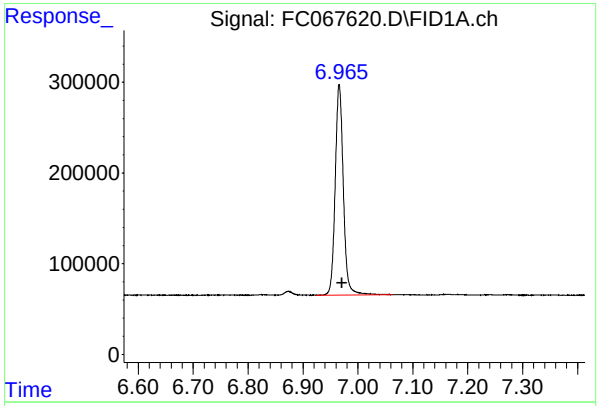
#3 A~Naphthalene (C11.7)

R.T.: 5.912 min
Delta R.T.: -0.005 min
Response: 2503795
Conc: 16.90 ug/ml



#4 n-Dodecane (C12)

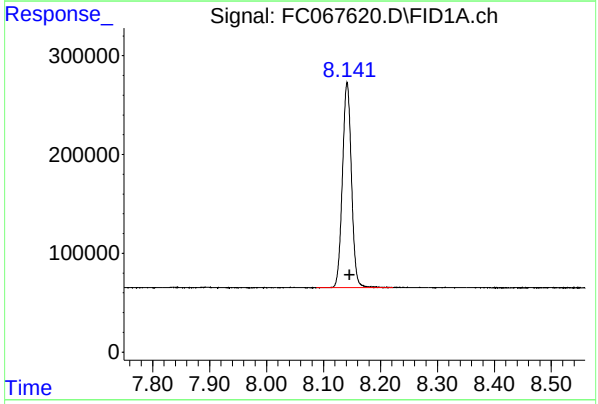
R.T.: 6.350 min
Delta R.T.: -0.004 min
Response: 2321555
Conc: 17.14 ug/ml



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

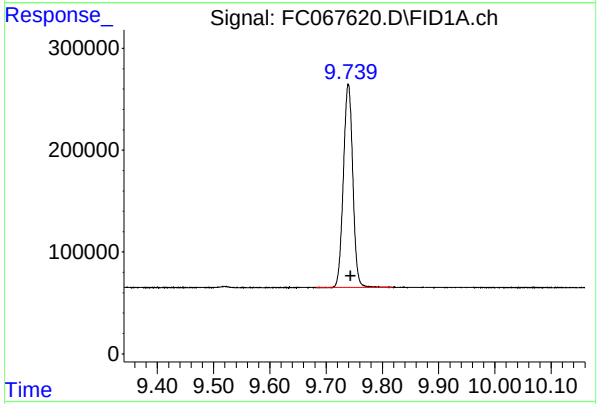
R.T.: 6.966 min
Delta R.T.: -0.005 min
Response: 2387150
Conc: 16.90 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD



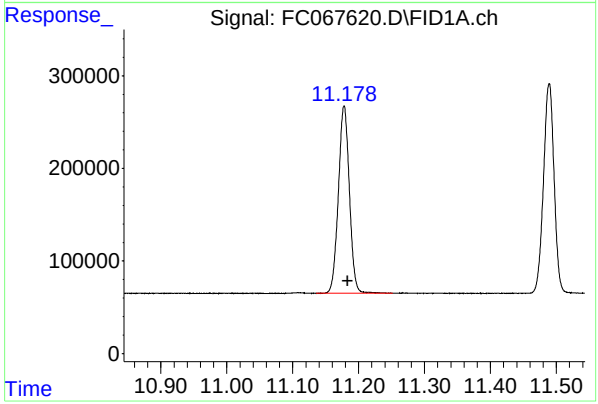
#6 n-Tetradecane (C14)

R.T.: 8.142 min
Delta R.T.: -0.004 min
Response: 2281242
Conc: 17.38 ug/ml



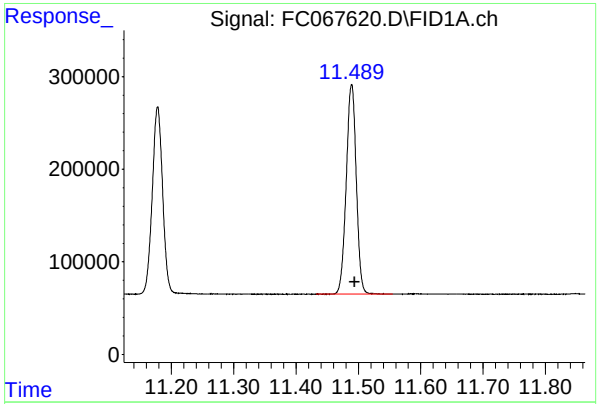
#7 n-Hexadecane (C16)

R.T.: 9.740 min
Delta R.T.: -0.004 min
Response: 2321068
Conc: 17.57 ug/ml



#8 n-Octadecane (C18)

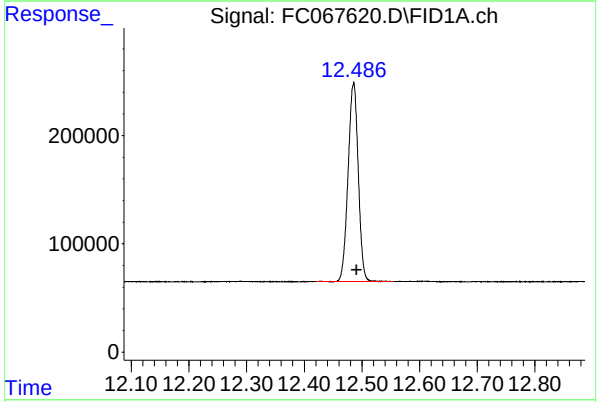
R.T.: 11.178 min
Delta R.T.: -0.006 min
Response: 2350822
Conc: 17.79 ug/ml



#9 ortho-Terphenyl (SURR)

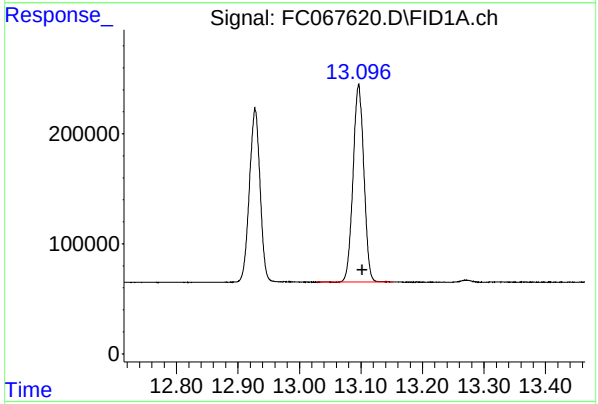
R.T.: 11.489 min
Delta R.T.: -0.005 min
Response: 2534328
Conc: 17.27 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD



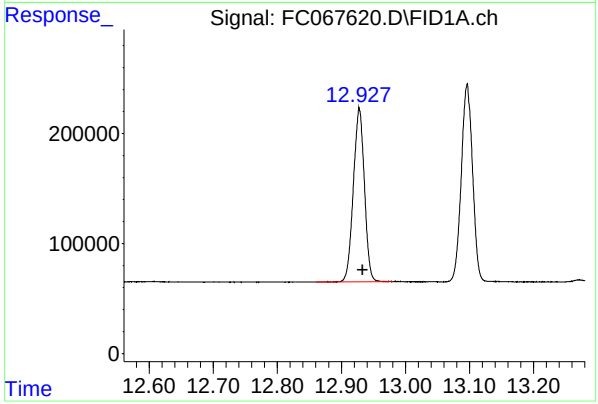
#10 n-Eicosane (C20)

R.T.: 12.486 min
Delta R.T.: -0.005 min
Response: 2253924
Conc: 17.86 ug/ml



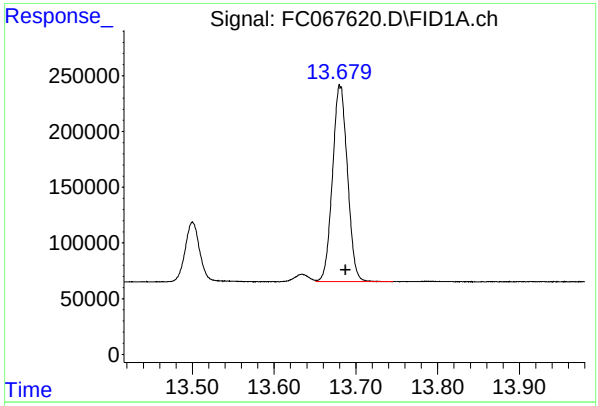
#11 n-Heneicosane (C21)

R.T.: 13.096 min
Delta R.T.: -0.006 min
Response: 2193426
Conc: 17.77 ug/ml



#12 1-chlorooctadecane (SURR)

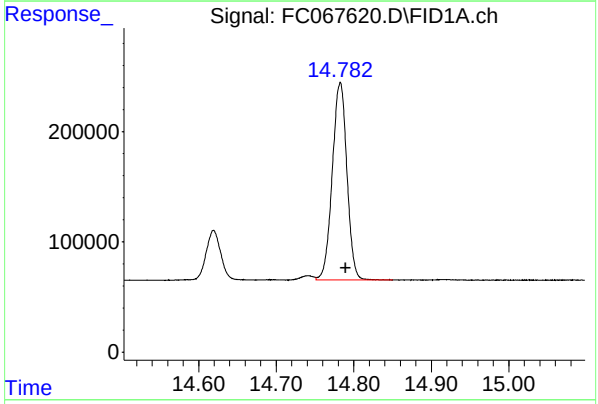
R.T.: 12.928 min
Delta R.T.: -0.005 min
Response: 1893057
Conc: 17.53 ug/ml



#13 n-Docosane (C22)

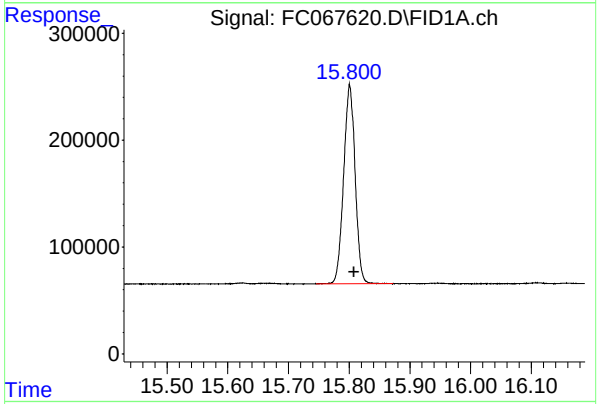
R.T.: 13.681 min
Delta R.T.: -0.007 min
Response: 2242488
Conc: 18.31 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD



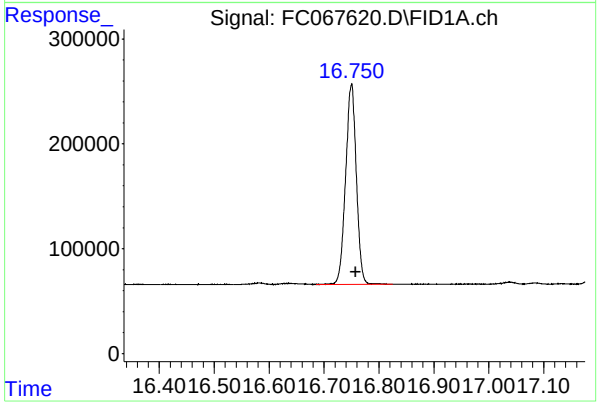
#14 n-Tetracosane (C24)

R.T.: 14.782 min
Delta R.T.: -0.007 min
Response: 2350637
Conc: 19.39 ug/ml



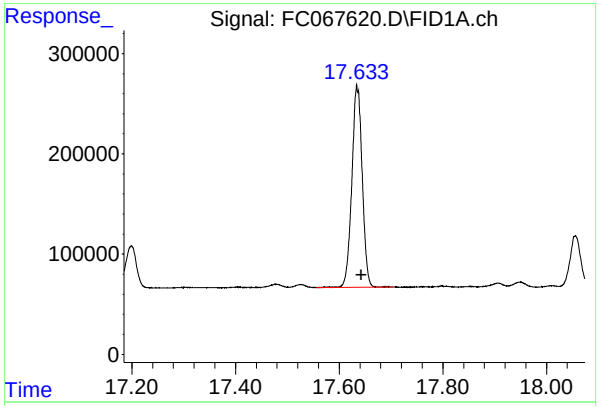
#15 n-Hexacosane (C26)

R.T.: 15.801 min
Delta R.T.: -0.007 min
Response: 2450773
Conc: 20.59 ug/ml



#16 n-Octacosane (C28)

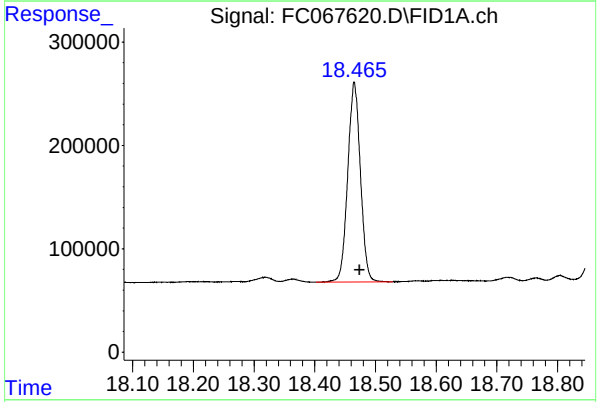
R.T.: 16.750 min
Delta R.T.: -0.008 min
Response: 2592021
Conc: 22.03 ug/ml



#17 n-Tricontane (C30)

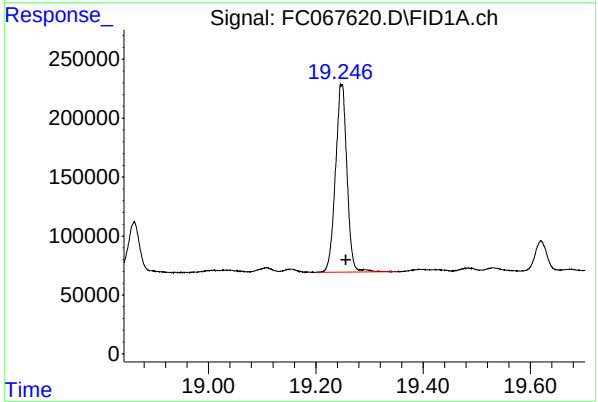
R.T.: 17.635 min
Delta R.T.: -0.008 min
Response: 2795675
Conc: 23.13 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD



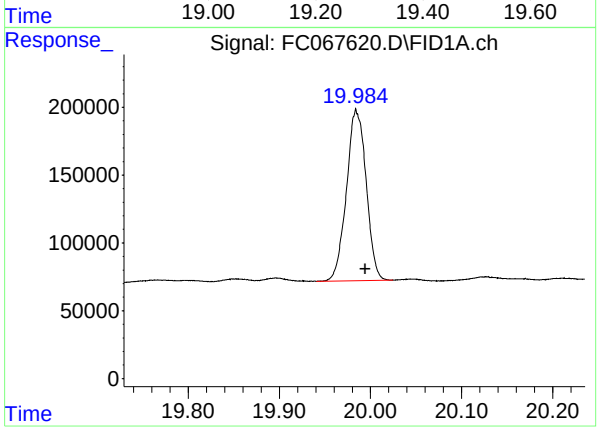
#18 n-Dotriacontane (C32)

R.T.: 18.465 min
Delta R.T.: -0.009 min
Response: 2810675
Conc: 23.75 ug/ml



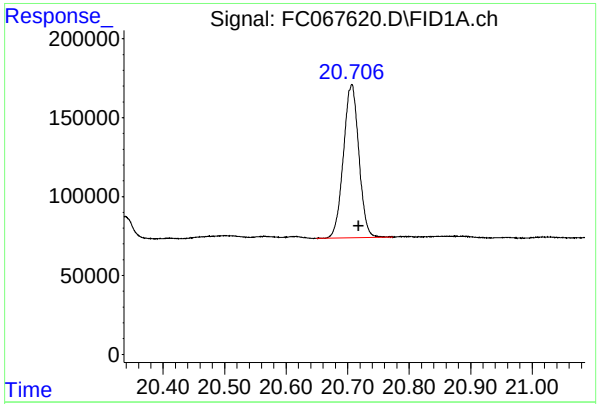
#19 n-Tetratriacontane (C34)

R.T.: 19.248 min
Delta R.T.: -0.008 min
Response: 2368193
Conc: 22.61 ug/ml



#20 n-Hexatriacontane (C36)

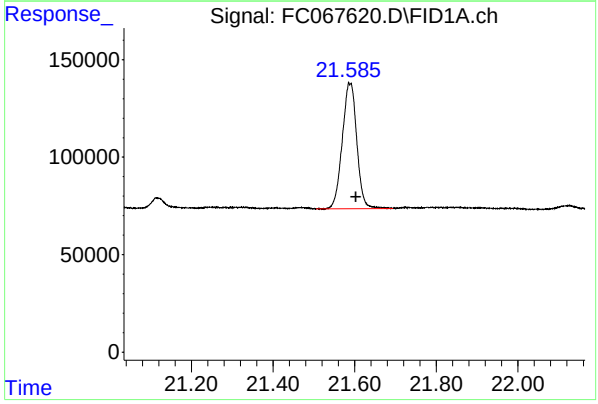
R.T.: 19.985 min
Delta R.T.: -0.010 min
Response: 1888915
Conc: 20.75 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 20.706 min
Delta R.T.: -0.012 min
Response: 1691856
Conc: 19.54 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD



#22 n-Tetracontane (C40)

R.T.: 21.588 min
Delta R.T.: -0.015 min
Response: 1586990
Conc: 18.67 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC110424AL\
Data File : FC067620.D
Signal(s) : FID1A.ch
Acq On : 05 Nov 2024 02:22
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	3.271	3.245	3.324	BB	260906	2195901	78.13%	4.364%
2	4.335	4.275	4.402	BB	246507	2309064	82.15%	4.588%
3	5.912	5.857	6.009	BB	263223	2503795	89.08%	4.975%
4	6.350	6.290	6.407	BV	228481	2321555	82.60%	4.613%
5	6.966	6.924	7.064	BB	232696	2387150	84.93%	4.744%
6	8.142	8.087	8.222	BB	207819	2281242	81.16%	4.533%
7	9.740	9.682	9.819	BB	199967	2321068	82.58%	4.612%
8	11.178	11.135	11.252	BB	203086	2350822	83.64%	4.671%
9	11.489	11.432	11.555	BB	226250	2534328	90.17%	5.036%
10	12.486	12.420	12.554	BB	182883	2253924	80.19%	4.479%
11	12.928	12.860	12.980	BB	156827	1893057	67.35%	3.762%
12	13.096	13.027	13.152	BB	180665	2193426	78.04%	4.359%
13	13.681	13.651	13.745	VB	175775	2242488	79.78%	4.456%
14	14.782	14.751	14.850	VB	178595	2350637	83.63%	4.671%
15	15.801	15.745	15.872	BB	186526	2450773	87.20%	4.870%
16	16.750	16.685	16.825	BB	191916	2592021	92.22%	5.151%
17	17.635	17.555	17.704	PB	195496	2795675	99.47%	5.555%
18	18.465	18.402	18.529	PV	193394	2810675	100.00%	5.585%
19	19.248	19.200	19.344	BB	159298	2368193	84.26%	4.706%
20	19.985	19.940	20.025	BV	123359	1888915	67.21%	3.754%
21	20.706	20.649	20.774	BV	97439	1691856	60.19%	3.362%
22	21.588	21.505	21.694	BB	63906	1586990	56.46%	3.154%
			Sum of corrected areas:			50323554		

Aliphatic EPH 102324.M Tue Nov 05 05:30:18 2024

Evaluate Continuing Calibration Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC110424AL\
Data File : FC067620.D
Signal(s) : FID1A.ch
Acq On : 05 Nov 2024 02:22
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: Nov 05 03:46:35 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	109.795 E3	18.5	82	0.00
2	T	n-Decane (C10)	136.246	115.453 E3	15.3	85	0.00
3	T	A~Naphthalene (C11.7)	148.188	125.190 E3	15.5	85	0.00
4	T	n-Dodecane (C12)	135.442	116.078 E3	14.3	86	0.00
5	T	A~2-methylnaphthalene (C12.	141.221	119.358 E3	15.5	85	0.00
6	T	n-Tetradecane (C14)	131.261	114.062 E3	13.1	88	0.00
7	T	n-Hexadecane (C16)	132.103	116.053 E3	12.1	89	0.00
8	T	n-Octadecane (C18)	132.113	117.541 E3	11.0	90	0.00
9	S	ortho-Terphenyl (SURR)	146.731	126.716 E3	13.6	88	0.00
10	T	n-Eicosane (C20)	126.177	112.696 E3	10.7	91	0.00
11	T	n-Heneicosane (C21)	123.415	109.671 E3	11.1	90	0.00
12	S	1-chlorooctadecane (SURR)	107.988	94.653 E3	12.3	89	0.00
13	T	n-Docosane (C22)	122.449	112.124 E3	8.4	93	0.00
14	T	n-Tetracosane (C24)	121.210	117.532 E3	3.0	99	0.00
15	T	n-Hexacosane (C26)	119.056	122.539 E3	-2.9	105	0.00
16	T	n-Octacosane (C28)	117.647	129.601 E3	-10.2	112	0.00
17	T	n-Tricontane (C30)	120.871	139.784 E3	-15.6	118	0.00
18	T	n-Dotriacontane (C32)	118.320	140.534 E3	-18.8	121	0.00
19	T	n-Tetratriacontane (C34)	104.727	118.410 E3	-13.1	115	0.00
20	T	n-Hexatriacontane (C36)	91.027	94.446 E3	-3.8	105	0.00
21	T	n-Octatriacontane (C38)	86.602	84.593 E3	2.3	99	-0.01
22	T	n-Tetracontane (C40)	85.011	79.349 E3	6.7	94	-0.02

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 : FC110424AL

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
File ID :	**FC067625.D**						
Aliphatic C9-C12	6816019.000	60.000	3.171	6.449	113600.317	135469.641	16.143
Aliphatic C12-C16	4594433.000	40.000	6.450	9.838	114860.825	131681.730	12.774
Aliphatic C16-C21	6776708.000	60.000	9.839	13.196	112945.133	127235.092	11.231
Aliphatic C21-C28	9587454.000	80.000	13.197	16.847	119843.175	120090.398	0.206
Aliphatic C28-C40	13067824.000	120.000	16.848	21.685	108898.533	101093.195	-7.721
Aliphatic EPH	40842438.000	360.000	3.171	21.685	113451.217	118799.912	4.502

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

Lab Sample ID:	20 PPM ALIPHATIC HC S	Acq On:	05 Nov 2024 05:24
Client Sample ID:		Operator:	YP/AJ
Data file:	FC067625.D	Misc:	
Instrument:	FID_C	ALS Vial:	2
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aliphatic C9-C12	3.171	6.449	6816019.000	60.000	ug/ml
Aliphatic C12-C16	6.450	9.838	4594433.000	40.000	ug/ml
Aliphatic C16-C21	9.839	13.196	6776708.000	60.000	ug/ml
Aliphatic C21-C28	13.197	16.847	9587454.000	80.000	ug/ml
Aliphatic C28-C40	16.848	21.685	13067824.000	120.000	ug/ml
Aliphatic EPH	3.171	21.685	40842438.000	360.000	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC110424AL\
Data File : FC067625.D
Signal(s) : FID1A.ch
Acq On : 05 Nov 2024 05:24
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 11/06/2024
Supervised By :Ankita Jodhani 11/06/2024

Integration File: autoint1.e
Quant Time: Nov 05 05:59:16 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)	11.488	2524629	17.206 ug/ml
Spiked Amount	50.000		Recovery =	34.41%
12) S	1-chlorooctadecane (S...	12.927	1888914	17.492 ug/ml
Spiked Amount	50.000		Recovery =	34.98%
	Target Compounds			
1) T	n-Nonane (C9)	3.271	2192787	16.277 ug/ml
2) T	n-Decane (C10)	4.335	2302665	16.901 ug/ml
3) T	A~Naphthalene (C11.7)	5.911	2494675	16.834 ug/ml
4) T	n-Dodecane (C12)	6.349	2320567	17.133 ug/ml
5) T	A~2-methylnaphthalene...	6.966	2387439	16.906 ug/ml
6) T	n-Tetradecane (C14)	8.141	2275012	17.332 ug/ml
7) T	n-Hexadecane (C16)	9.738	2319421	17.558 ug/ml
8) T	n-Octadecane (C18)	11.178	2339871	17.711 ug/ml
10) T	n-Eicosane (C20)	12.485	2250125	17.833 ug/ml
11) T	n-Heneicosane (C21)	13.095	2186712	17.718 ug/ml
13) T	n-Docosane (C22)	13.680	2232927	18.236 ug/ml
14) T	n-Tetracosane (C24)	14.781	2332854	19.246 ug/ml
15) T	n-Hexacosane (C26)	15.801	2438098	20.479 ug/ml
16) T	n-Octacosane (C28)	16.749	2583575	21.960 ug/mlm
17) T	n-Tricontane (C30)	17.634	2794571	23.120 ug/ml
18) T	n-Dotriacontane (C32)	18.466	2797835	23.646 ug/ml
19) T	n-Tetratriacontane (C34)	19.246	2338687	22.331 ug/ml
20) T	n-Hexatriacontane (C36)	19.985	1877145	20.622 ug/ml
21) T	n-Octatriacontane (C38)	20.705	1682150	19.424 ug/ml
22) T	n-Tetracontane (C40)	21.588	1577436	18.556 ug/mlm

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

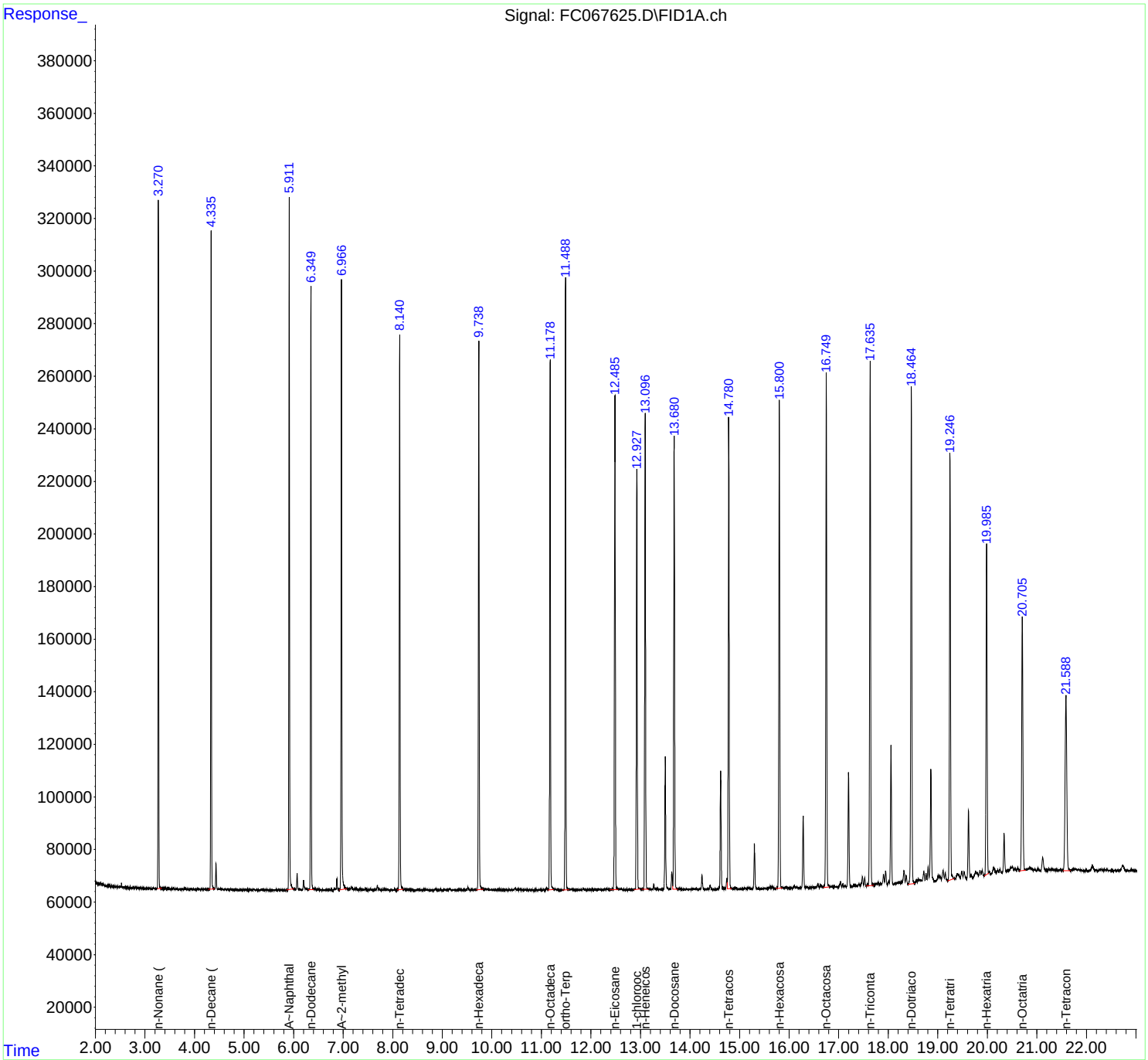
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC110424AL\
Data File : FC067625.D
Signal(s) : FID1A.ch
Acq On : 05 Nov 2024 05:24
Operator : YP/AJ
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 2 Sample Multiplier: 1

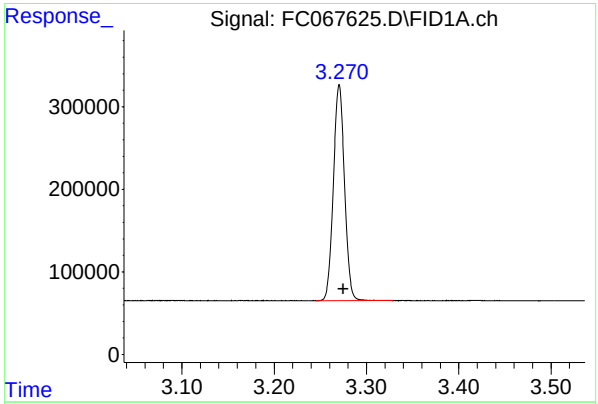
Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 11/06/2024
Supervised By :Ankita Jodhani 11/06/2024

Integration File: autoint1.e
Quant Time: Nov 05 05:59:16 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





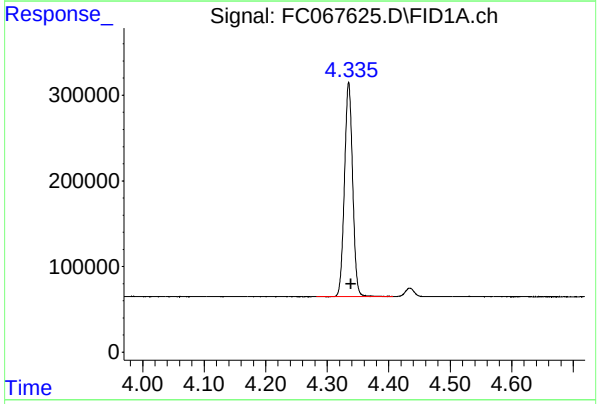
#1 n-Nonane (C9)

R.T.: 3.271 min
Delta R.T.: -0.004 min
Response: 2192787
Conc: 16.28 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD

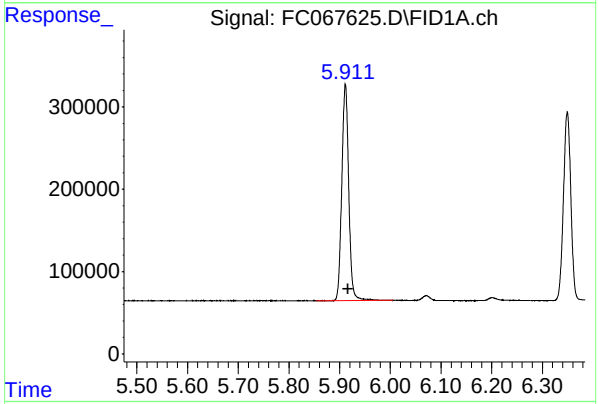
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/06/2024
Supervised By :Ankita Jodhani 11/06/2024



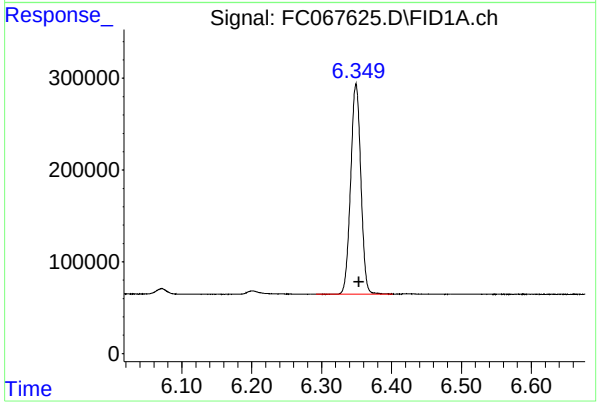
#2 n-Decane (C10)

R.T.: 4.335 min
Delta R.T.: -0.003 min
Response: 2302665
Conc: 16.90 ug/ml



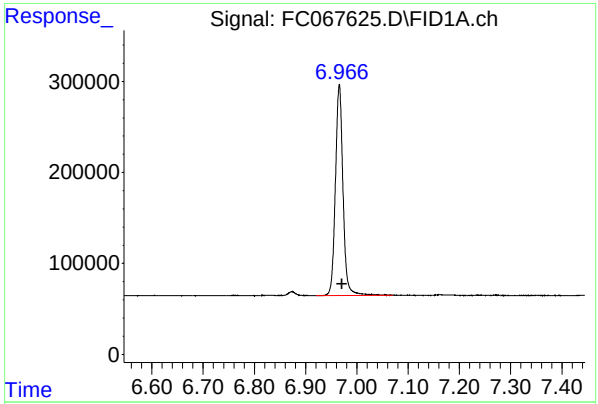
#3 A~Naphthalene (C11.7)

R.T.: 5.911 min
Delta R.T.: -0.005 min
Response: 2494675
Conc: 16.83 ug/ml



#4 n-Dodecane (C12)

R.T.: 6.349 min
Delta R.T.: -0.004 min
Response: 2320567
Conc: 17.13 ug/ml



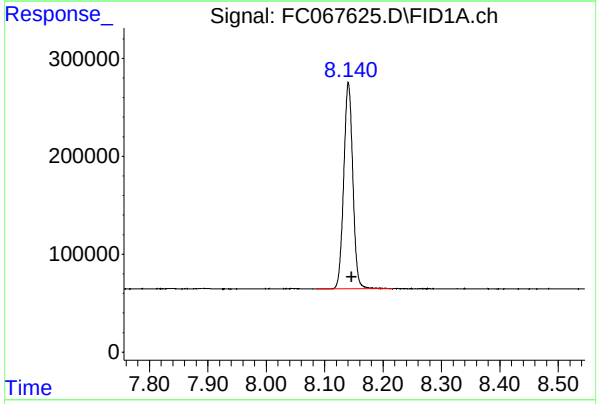
#5 A~2-methylnaphthalene (C12.89)

R.T.: 6.966 min
Delta R.T.: -0.006 min
Response: 2387439
Conc: 16.91 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD

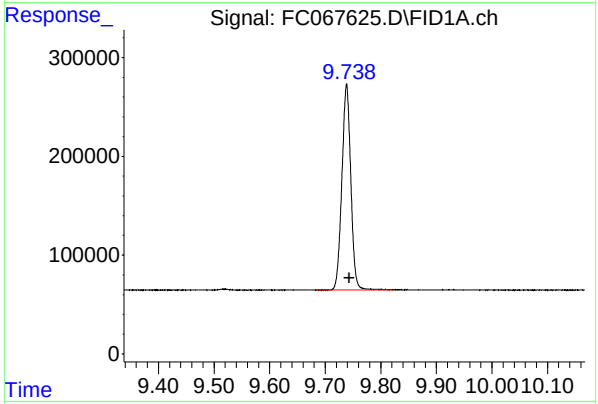
Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/06/2024
Supervised By :Ankita Jodhani 11/06/2024



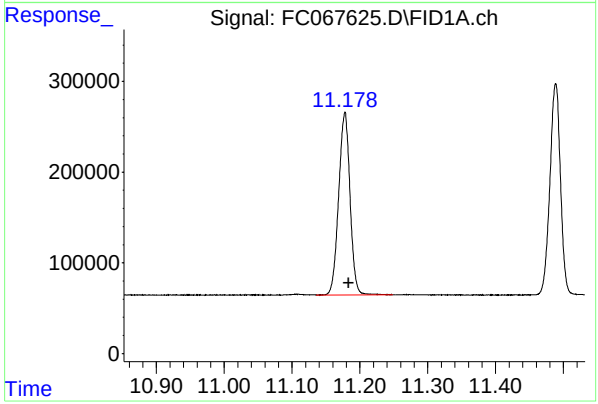
#6 n-Tetradecane (C14)

R.T.: 8.141 min
Delta R.T.: -0.005 min
Response: 2275012
Conc: 17.33 ug/ml



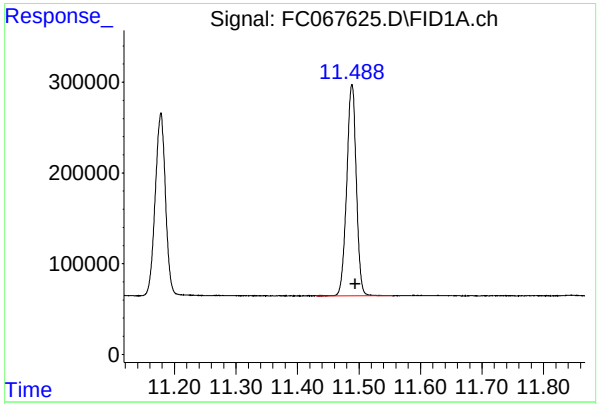
#7 n-Hexadecane (C16)

R.T.: 9.738 min
Delta R.T.: -0.005 min
Response: 2319421
Conc: 17.56 ug/ml



#8 n-Octadecane (C18)

R.T.: 11.178 min
Delta R.T.: -0.006 min
Response: 2339871
Conc: 17.71 ug/ml



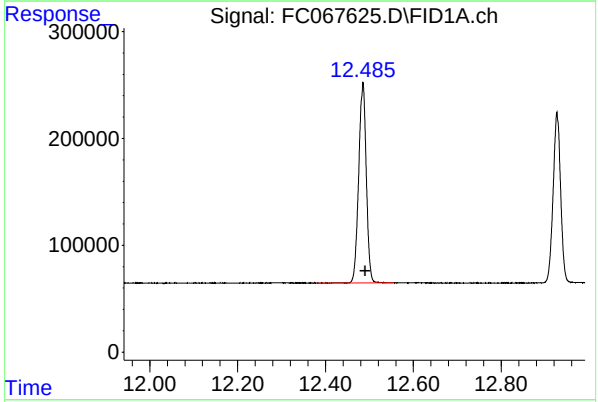
#9 ortho-Terphenyl (SURR)

R.T.: 11.488 min
Delta R.T.: -0.006 min
Response: 2524629
Conc: 17.21 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD

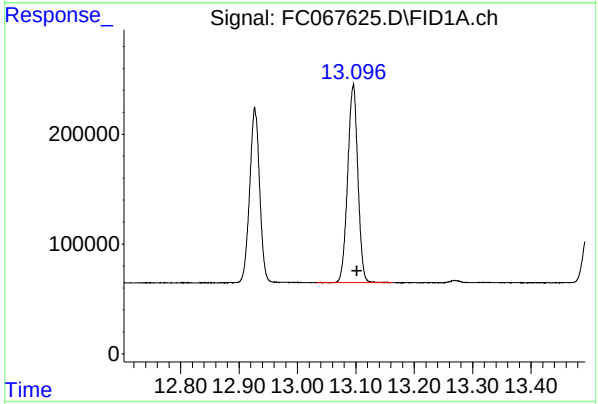
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/06/2024
Supervised By :Ankita Jodhani 11/06/2024



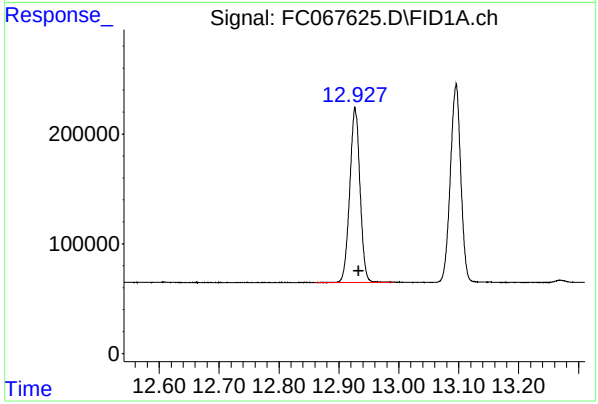
#10 n-Eicosane (C20)

R.T.: 12.485 min
Delta R.T.: -0.006 min
Response: 2250125
Conc: 17.83 ug/ml



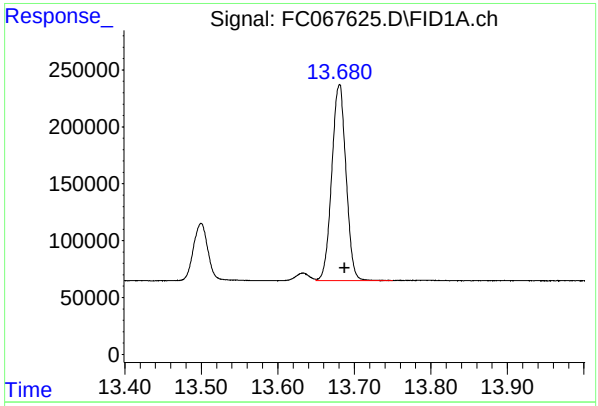
#11 n-Heneicosane (C21)

R.T.: 13.095 min
Delta R.T.: -0.007 min
Response: 2186712
Conc: 17.72 ug/ml



#12 1-chlorooctadecane (SURR)

R.T.: 12.927 min
Delta R.T.: -0.006 min
Response: 1888914
Conc: 17.49 ug/ml



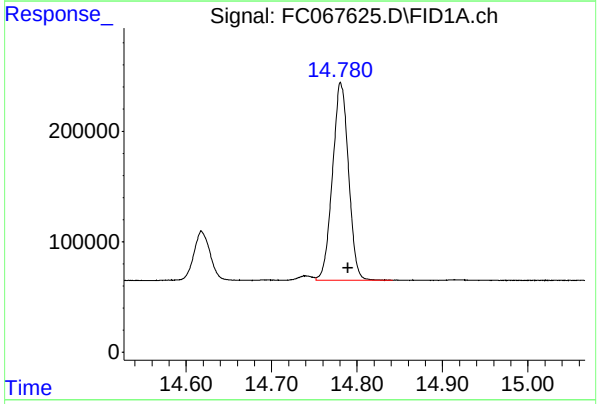
#13 n-Docosane (C22)

R.T.: 13.680 min
Delta R.T.: -0.007 min
Response: 2232927
Conc: 18.24 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD

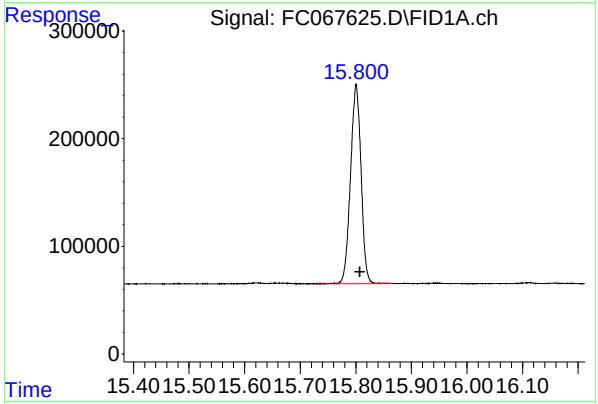
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/06/2024
Supervised By :Ankita Jodhani 11/06/2024



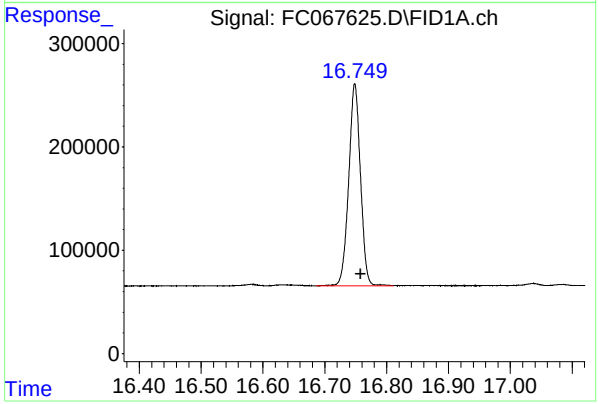
#14 n-Tetracosane (C24)

R.T.: 14.781 min
Delta R.T.: -0.008 min
Response: 2332854
Conc: 19.25 ug/ml



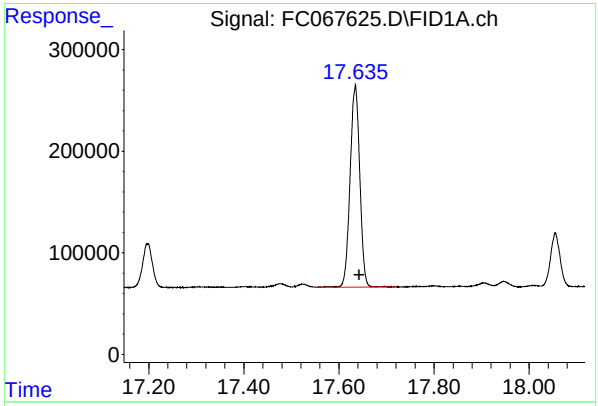
#15 n-Hexacosane (C26)

R.T.: 15.801 min
Delta R.T.: -0.007 min
Response: 2438098
Conc: 20.48 ug/ml



#16 n-Octacosane (C28)

R.T.: 16.749 min
Delta R.T.: -0.009 min
Response: 2583575
Conc: 21.96 ug/ml m



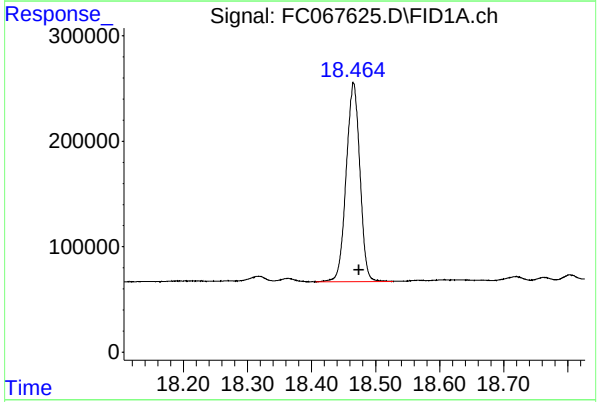
#17 n-Tricontane (C30)

R.T.: 17.634 min
Delta R.T.: -0.008 min
Response: 2794571
Conc: 23.12 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD

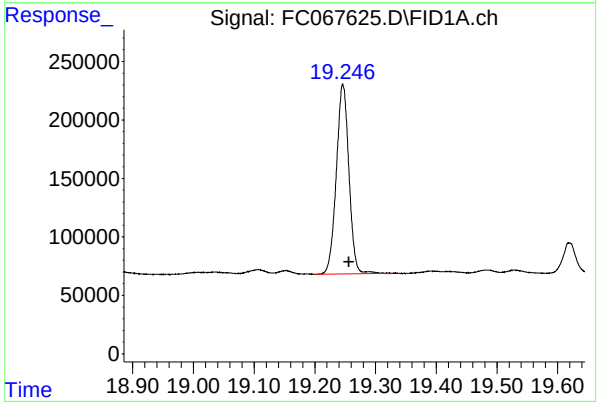
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/06/2024
Supervised By :Ankita Jodhani 11/06/2024



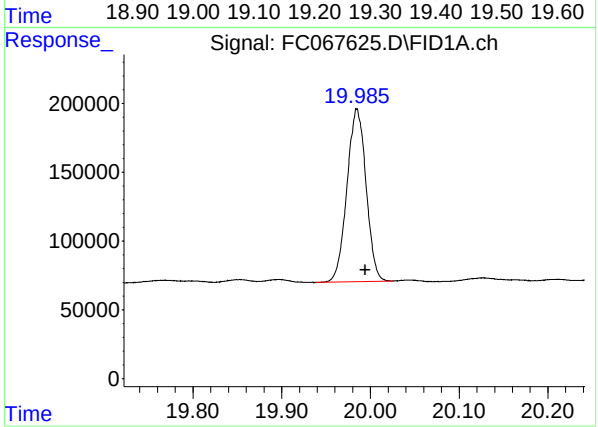
#18 n-Dotriacontane (C32)

R.T.: 18.466 min
Delta R.T.: -0.008 min
Response: 2797835
Conc: 23.65 ug/ml



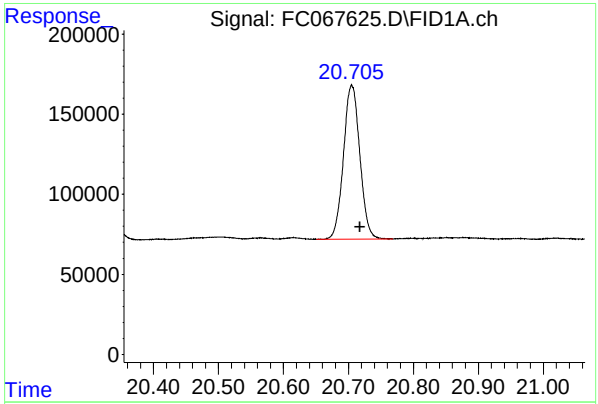
#19 n-Tetratriacontane (C34)

R.T.: 19.246 min
Delta R.T.: -0.010 min
Response: 2338687
Conc: 22.33 ug/ml



#20 n-Hexatriacontane (C36)

R.T.: 19.985 min
Delta R.T.: -0.009 min
Response: 1877145
Conc: 20.62 ug/ml



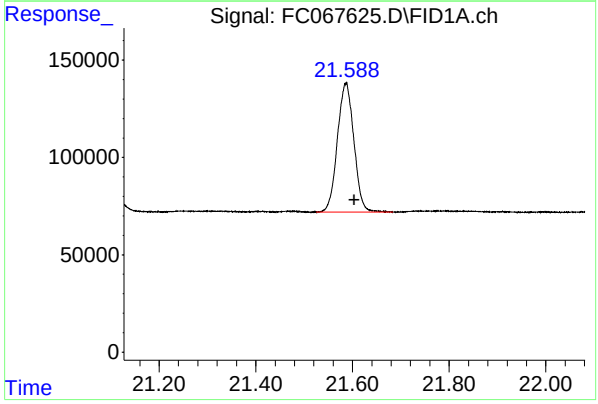
#21 n-Octatriacontane (C38)

R.T.: 20.705 min
Delta R.T.: -0.013 mir
Response: 1682150
Conc: 19.42 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/06/2024
Supervised By :Ankita Jodhani 11/06/2024



#22 n-Tetracontane (C40)

R.T.: 21.588 min
Delta R.T.: -0.015 min
Response: 1577436
Conc: 18.56 ug/ml m

Instrument :
FID_C
LabSampleId :
20 PPM ALIPHATIC HC STD

rteres

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/06/2024
Supervised By :Ankita Jodhani 11/06/2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC11042
Data File : FC067625.D
Signal(s) : FID1A.ch
Acq On : 05 Nov 2024 05:24
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	3.271	3.245	3.329	BB	261236	2192787	78.37%	4.372%
2	4.335	4.282	4.407	BB	250238	2302665	82.30%	4.591%
3	5.911	5.854	6.005	BB	263635	2494675	89.16%	4.974%
4	6.349	6.292	6.402	BV	228136	2320567	82.94%	4.627%
5	6.966	6.920	7.070	BB	231874	2387439	85.33%	4.760%
6	8.141	8.085	8.217	BB	210561	2275012	81.31%	4.536%
7	9.738	9.684	9.822	BB	208917	2319421	82.90%	4.624%
8	11.178	11.135	11.249	BB	200110	2339871	83.63%	4.665%
9	11.488	11.430	11.555	BB	233267	2524629	90.24%	5.034%
10	12.485	12.379	12.554	BB	188479	2250125	80.42%	4.486%
11	12.927	12.862	12.990	BB	158978	1888914	67.51%	3.766%
12	13.095	13.032	13.164	BB	179695	2186712	78.16%	4.360%
13	13.680	13.650	13.750	VB	172235	2232927	79.81%	4.452%
14	14.781	14.752	14.842	VB	176704	2332854	83.38%	4.651%
15	15.801	15.729	15.867	BB	185751	2438098	87.14%	4.861%
16	16.749	16.607	16.820	VB	195660	2597898	92.85%	5.180%
17	17.634	17.552	17.714	PB	196808	2794571	99.88%	5.572%
18	18.466	18.407	18.527	BV	189078	2797835	100.00%	5.578%
19	19.246	19.202	19.329	BB	161247	2338687	83.59%	4.663%
20	19.985	19.939	20.025	BV	125574	1877145	67.09%	3.743%
21	20.705	20.650	20.769	BB	96428	1682150	60.12%	3.354%
22	21.586	21.429	21.690	BB	65797	1580689	56.50%	3.152%
			Sum of corrected areas:			50155671		

Aliphatic EPH 102324.M Tue Nov 05 06:03:16 2024

Evaluate Continuing Calibration Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC110424AL\
Data File : FC067625.D
Signal(s) : FID1A.ch
Acq On : 05 Nov 2024 05:24
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: Nov 05 05:59:16 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	109.639 E3	18.6	82	0.00
2	T	n-Decane (C10)	136.246	115.133 E3	15.5	85	0.00
3	T	A~Naphthalene (C11.7)	148.188	124.734 E3	15.8	85	0.00
4	T	n-Dodecane (C12)	135.442	116.028 E3	14.3	86	0.00
5	T	A~2-methylnaphthalene (C12.	141.221	119.372 E3	15.5	85	0.00
6	T	n-Tetradecane (C14)	131.261	113.751 E3	13.3	88	0.00
7	T	n-Hexadecane (C16)	132.103	115.971 E3	12.2	89	0.00
8	T	n-Octadecane (C18)	132.113	116.994 E3	11.4	90	0.00
9	S	ortho-Terphenyl (SURR)	146.731	126.231 E3	14.0	87	0.00
10	T	n-Eicosane (C20)	126.177	112.506 E3	10.8	91	0.00
11	T	n-Heneicosane (C21)	123.415	109.336 E3	11.4	90	0.00
12	S	1-chlorooctadecane (SURR)	107.988	94.446 E3	12.5	89	0.00
13	T	n-Docosane (C22)	122.449	111.646 E3	8.8	93	0.00
14	T	n-Tetracosane (C24)	121.210	116.643 E3	3.8	98	0.00
15	T	n-Hexacosane (C26)	119.056	121.905 E3	-2.4	104	0.00
16	T	n-Octacosane (C28)	117.647	129.179 E3	-9.8	111	0.00
17	T	n-Tricontane (C30)	120.871	139.729 E3	-15.6	117	0.00
18	T	n-Dotriacontane (C32)	118.320	139.892 E3	-18.2	120	0.00
19	T	n-Tetratriacontane (C34)	104.727	116.934 E3	-11.7	113	0.00
20	T	n-Hexatriacontane (C36)	91.027	93.857 E3	-3.1	105	0.00
21	T	n-Octatriacontane (C38)	86.602	84.108 E3	2.9	98	-0.01
22	T	n-Tetracontane (C40)	85.011	78.872 E3	7.2	94	-0.02

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 : FC110424AL

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
File ID :	**FC067630.D**						
Aliphatic C9-C12	6934065.000	60.000	3.171	6.449	115567.750	135469.641	14.691
Aliphatic C12-C16	4673475.000	40.000	6.450	9.838	116836.875	131681.730	11.273
Aliphatic C16-C21	6853633.000	60.000	9.839	13.196	114227.217	127235.092	10.223
Aliphatic C21-C28	9678302.000	80.000	13.197	16.847	120978.775	120090.398	-0.740
Aliphatic C28-C40	13235928.000	120.000	16.848	21.685	110299.400	101093.195	-9.107
Aliphatic EPH	41375403.000	360.000	3.171	21.685	114931.675	118799.912	3.256

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

Lab Sample ID:	20 PPM ALIPHATIC HC S	Acq On:	05 Nov 2024 11:43
Client Sample ID:		Operator:	YP/AJ
Data file:	FC067630.D	Misc:	
Instrument:	FID_C	ALS Vial:	2
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aliphatic C9-C12	3.171	6.449	6934065.000	60.000	ug/ml
Aliphatic C12-C16	6.450	9.838	4673475.000	40.000	ug/ml
Aliphatic C16-C21	9.839	13.196	6853633.000	60.000	ug/ml
Aliphatic C21-C28	13.197	16.847	9678302.000	80.000	ug/ml
Aliphatic C28-C40	16.848	21.685	13235928.000	120.000	ug/ml
Aliphatic EPH	3.171	21.685	41375403.000	360.000	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC110424AL\
Data File : FC067630.D
Signal(s) : FID1A.ch
Acq On : 05 Nov 2024 11:43
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 11/06/2024
Supervised By :Ankita Jodhani 11/06/2024

Integration File: autoint1.e
Quant Time: Nov 05 15:47:55 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)	11.489	2562300	17.463 ug/ml
Spiked Amount	50.000		Recovery =	34.93%
12) S	1-chlorooctadecane (S...	12.928	1908552	17.674 ug/ml
Spiked Amount	50.000		Recovery =	35.35%
	Target Compounds			
1) T	n-Nonane (C9)	3.270	2228927	16.545 ug/ml
2) T	n-Decane (C10)	4.335	2344400	17.207 ug/ml
3) T	A~Naphthalene (C11.7)	5.912	2542268	17.156 ug/ml
4) T	n-Dodecane (C12)	6.349	2360738	17.430 ug/ml
5) T	A~2-methylnaphthalene...	6.966	2430098	17.208 ug/ml
6) T	n-Tetradecane (C14)	8.141	2318564	17.664 ug/ml
7) T	n-Hexadecane (C16)	9.739	2354911	17.826 ug/ml
8) T	n-Octadecane (C18)	11.178	2371472	17.950 ug/ml
10) T	n-Eicosane (C20)	12.485	2269993	17.990 ug/ml
11) T	n-Heneicosane (C21)	13.096	2212168	17.925 ug/ml
13) T	n-Docosane (C22)	13.681	2253524	18.404 ug/ml
14) T	n-Tetracosane (C24)	14.781	2354797	19.427 ug/ml
15) T	n-Hexacosane (C26)	15.801	2464814	20.703 ug/ml
16) T	n-Octacosane (C28)	16.749	2605167	22.144 ug/ml
17) T	n-Tricontane (C30)	17.634	2811564	23.261 ug/ml
18) T	n-Dotriacontane (C32)	18.465	2827636	23.898 ug/ml
19) T	n-Tetratriacontane (C34)	19.248	2384491	22.769 ug/ml
20) T	n-Hexatriacontane (C36)	19.985	1902295	20.898 ug/ml
21) T	n-Octatriacontane (C38)	20.706	1701011	19.642 ug/ml
22) T	n-Tetracontane (C40)	21.587	1608931	18.926 ug/mlm

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

Quantitation Report (QT Reviewed)

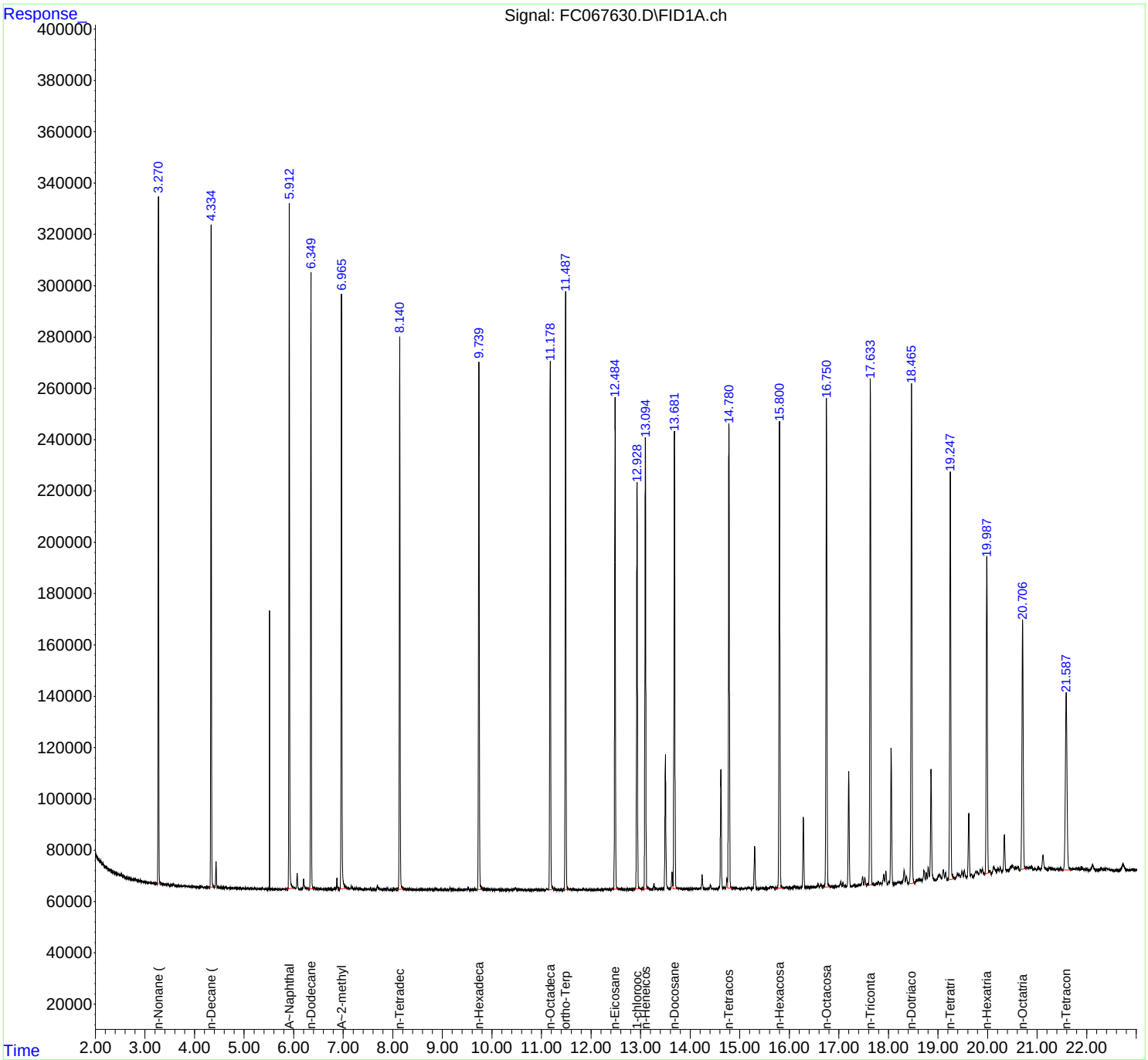
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC110424AL\
Data File : FC067630.D
Signal(s) : FID1A.ch
Acq On : 05 Nov 2024 11:43
Operator : YP/AJ
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 2 Sample Multiplier: 1

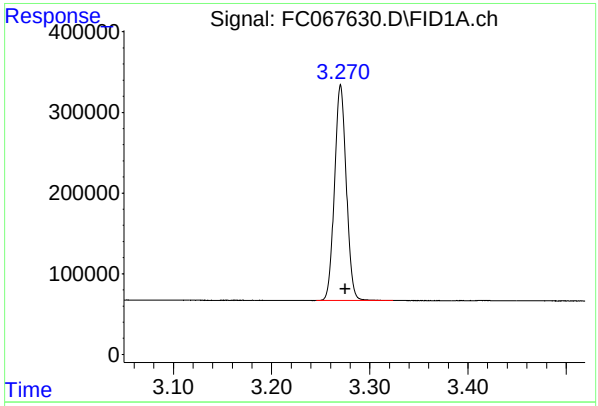
Integration File: autoint1.e
Quant Time: Nov 05 15:47:55 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 18:12:58 2024
Response via : Initial Calibration
Integrator: ChemStation

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 11/06/2024
Supervised By :Ankita Jodhani 11/06/2024





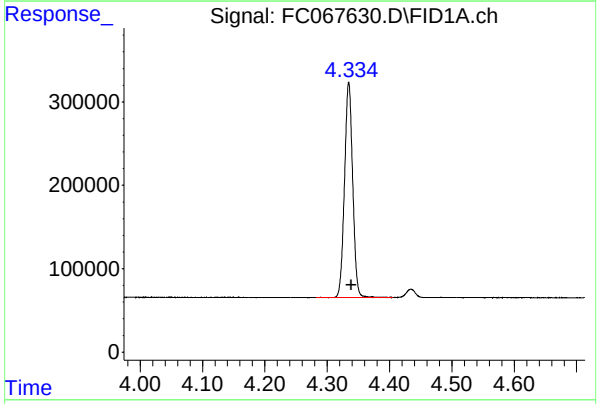
#1 n-Nonane (C9)

R.T.: 3.270 min
Delta R.T.: -0.005 min
Response: 2228927
Conc: 16.54 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD

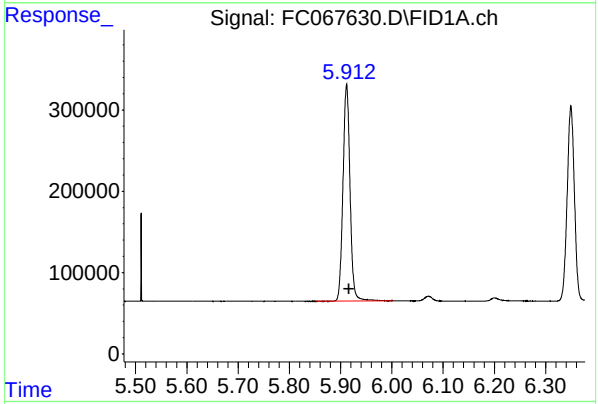
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/06/2024
Supervised By :Ankita Jodhani 11/06/2024



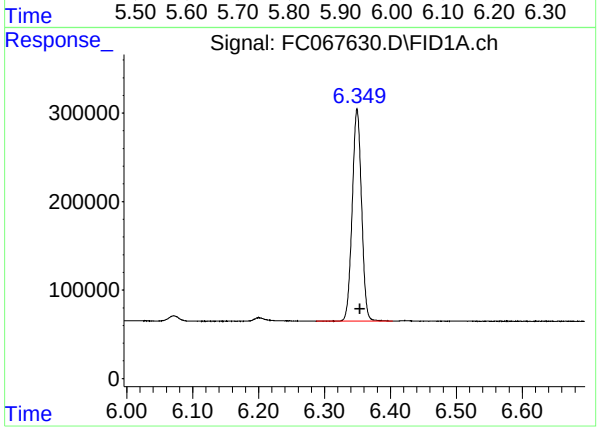
#2 n-Decane (C10)

R.T.: 4.335 min
Delta R.T.: -0.004 min
Response: 2344400
Conc: 17.21 ug/ml



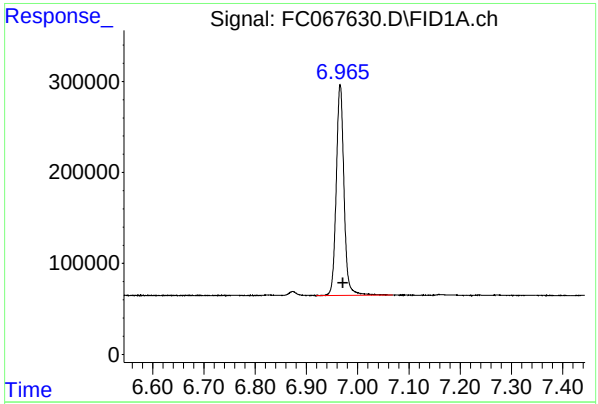
#3 A~Naphthalene (C11.7)

R.T.: 5.912 min
Delta R.T.: -0.005 min
Response: 2542268
Conc: 17.16 ug/ml



#4 n-Dodecane (C12)

R.T.: 6.349 min
Delta R.T.: -0.004 min
Response: 2360738
Conc: 17.43 ug/ml



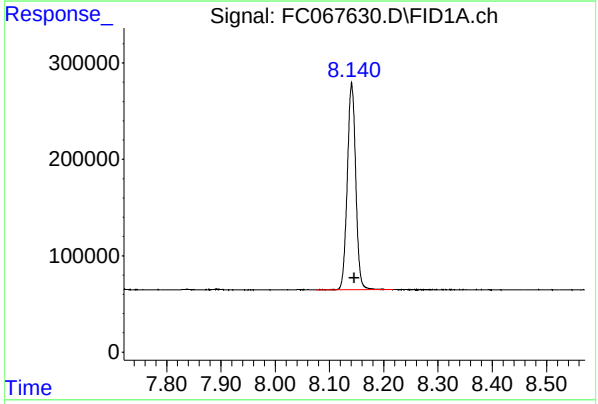
#5 A~2-methylnaphthalene (C12.89)

R.T.: 6.966 min
Delta R.T.: -0.005 min
Response: 2430098
Conc: 17.21 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD

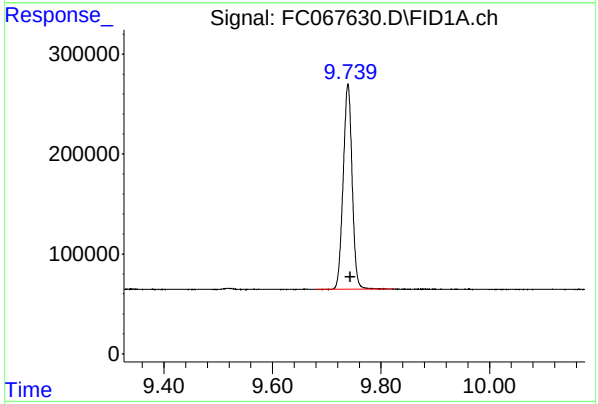
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/06/2024
Supervised By :Ankita Jodhani 11/06/2024



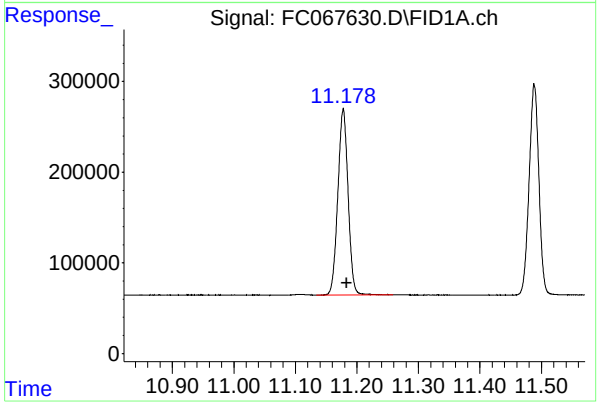
#6 n-Tetradecane (C14)

R.T.: 8.141 min
Delta R.T.: -0.005 min
Response: 2318564
Conc: 17.66 ug/ml



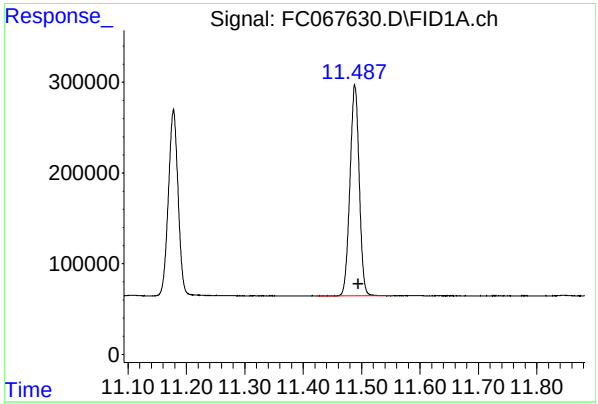
#7 n-Hexadecane (C16)

R.T.: 9.739 min
Delta R.T.: -0.005 min
Response: 2354911
Conc: 17.83 ug/ml



#8 n-Octadecane (C18)

R.T.: 11.178 min
Delta R.T.: -0.006 min
Response: 2371472
Conc: 17.95 ug/ml



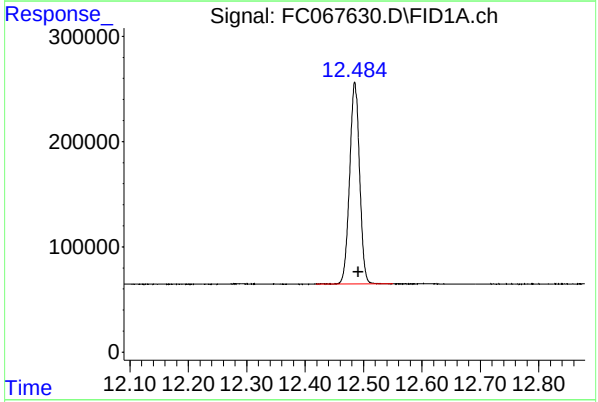
#9 ortho-Terphenyl (SURR)

R.T.: 11.489 min
Delta R.T.: -0.006 min
Response: 2562300
Conc: 17.46 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD

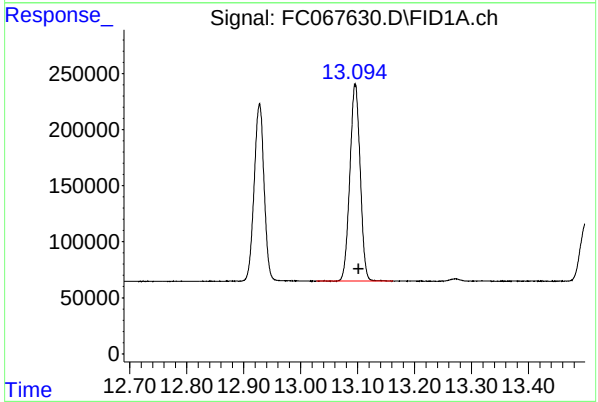
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/06/2024
Supervised By :Ankita Jodhani 11/06/2024



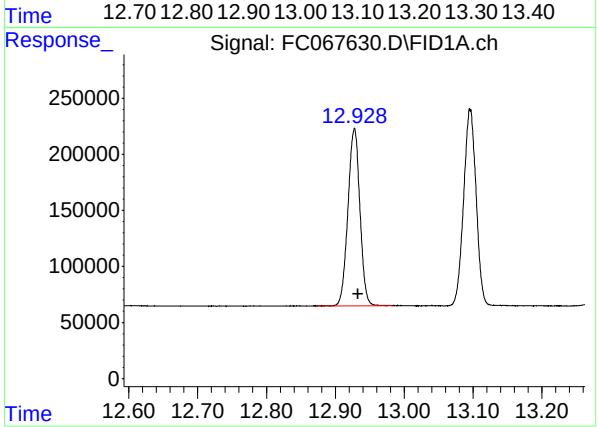
#10 n-Eicosane (C20)

R.T.: 12.485 min
Delta R.T.: -0.006 min
Response: 2269993
Conc: 17.99 ug/ml



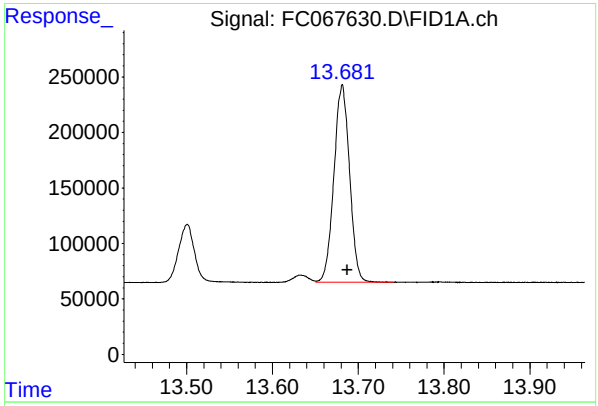
#11 n-Heneicosane (C21)

R.T.: 13.096 min
Delta R.T.: -0.006 min
Response: 2212168
Conc: 17.92 ug/ml



#12 1-chlorooctadecane (SURR)

R.T.: 12.928 min
Delta R.T.: -0.005 min
Response: 1908552
Conc: 17.67 ug/ml



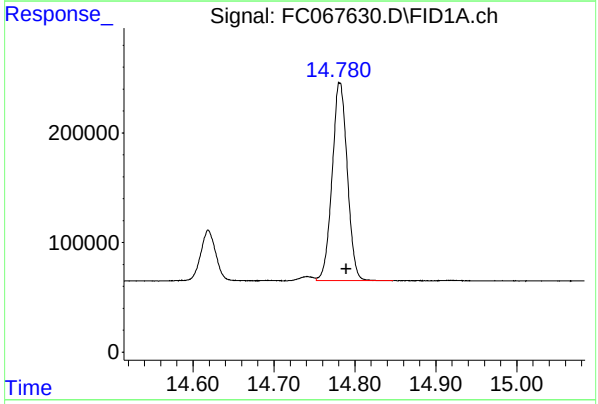
#13 n-Docosane (C22)

R.T.: 13.681 min
Delta R.T.: -0.006 min
Response: 2253524
Conc: 18.40 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD

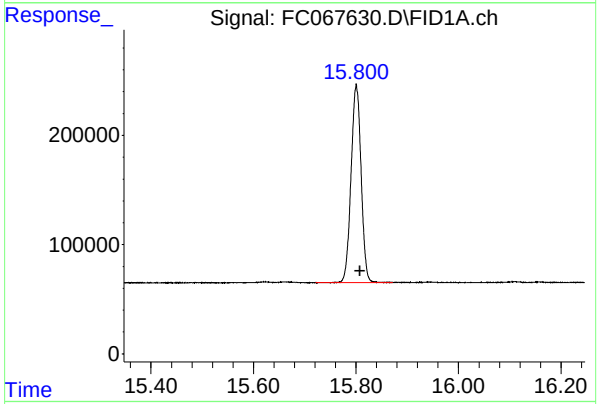
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/06/2024
Supervised By :Ankita Jodhani 11/06/2024



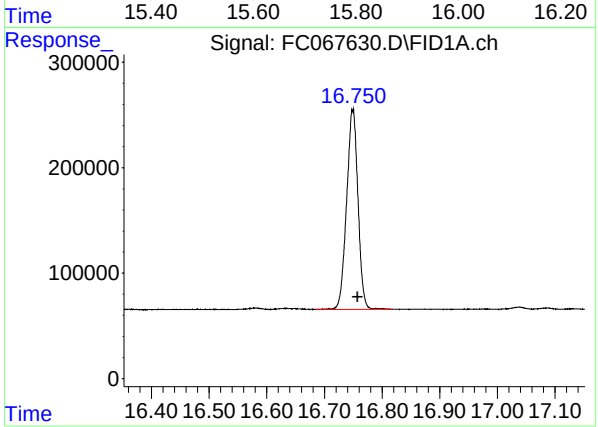
#14 n-Tetracosane (C24)

R.T.: 14.781 min
Delta R.T.: -0.008 min
Response: 2354797
Conc: 19.43 ug/ml



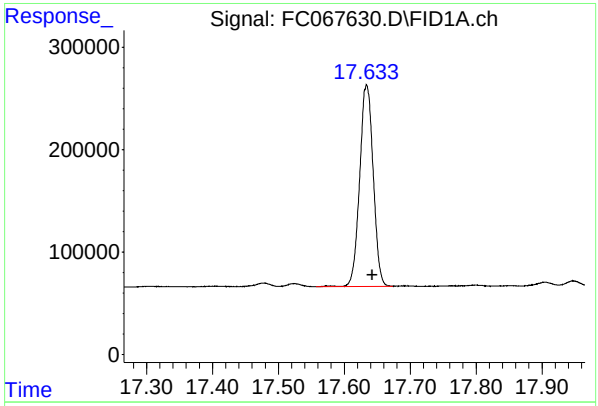
#15 n-Hexacosane (C26)

R.T.: 15.801 min
Delta R.T.: -0.007 min
Response: 2464814
Conc: 20.70 ug/ml



#16 n-Octacosane (C28)

R.T.: 16.749 min
Delta R.T.: -0.009 min
Response: 2605167
Conc: 22.14 ug/ml



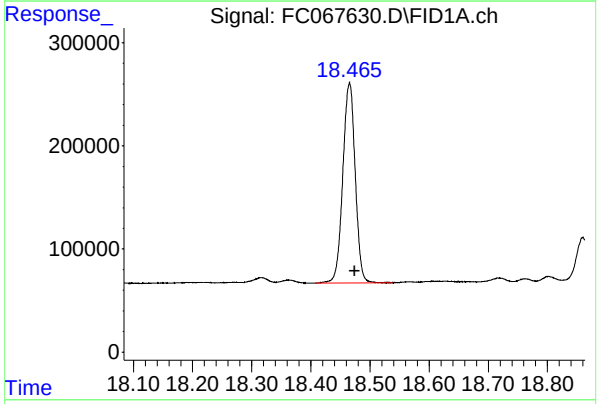
#17 n-Tricontane (C30)

R.T.: 17.634 min
Delta R.T.: -0.009 min
Response: 2811564
Conc: 23.26 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD

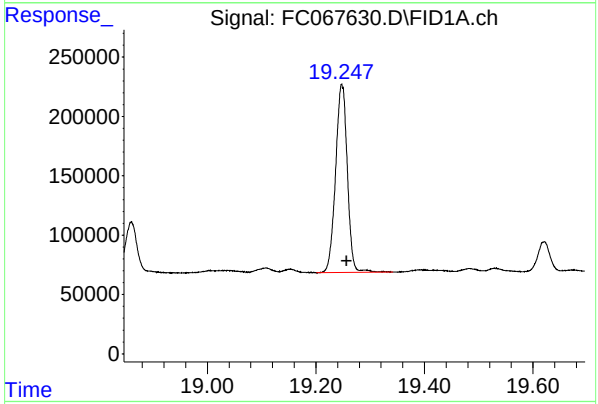
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/06/2024
Supervised By :Ankita Jodhani 11/06/2024



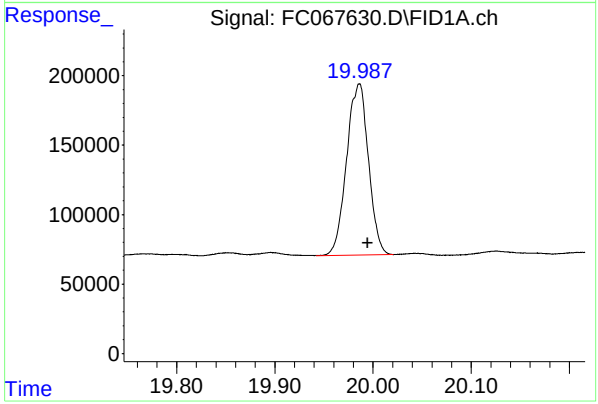
#18 n-Dotriacontane (C32)

R.T.: 18.465 min
Delta R.T.: -0.009 min
Response: 2827636
Conc: 23.90 ug/ml



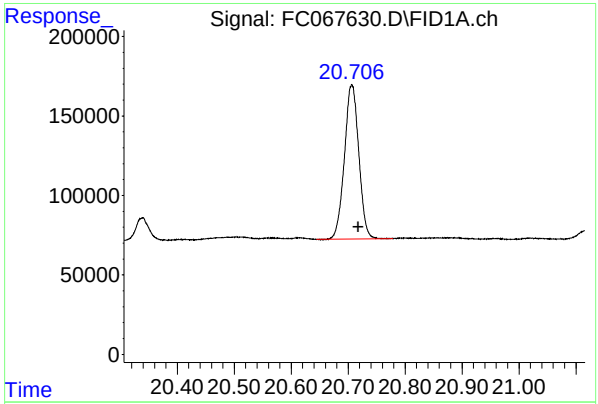
#19 n-Tetratriacontane (C34)

R.T.: 19.248 min
Delta R.T.: -0.008 min
Response: 2384491
Conc: 22.77 ug/ml



#20 n-Hexatriacontane (C36)

R.T.: 19.985 min
Delta R.T.: -0.009 min
Response: 1902295
Conc: 20.90 ug/ml



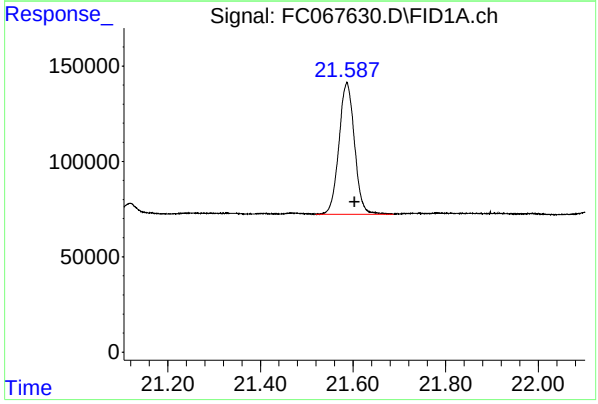
#21 n-Octatriacontane (C38)

R.T.: 20.706 min
Delta R.T.: -0.012 min
Response: 1701011
Conc: 19.64 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/06/2024
Supervised By :Ankita Jodhani 11/06/2024



#22 n-Tetracontane (C40)

R.T.: 21.587 min
Delta R.T.: -0.017 min
Response: 1608931
Conc: 18.93 ug/ml m

Instrument :
FID_C
LabSampleId :
20 PPM ALIPHATIC HC STD

rteres

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/06/2024
Supervised By :Ankita Jodhani 11/06/2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC11042
Data File : FC067630.D
Signal(s) : FID1A.ch
Acq On : 05 Nov 2024 11:43
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	3.270	3.245	3.324	BB	266919	2228927	78.83%	4.387%
2	4.335	4.282	4.405	BB	258578	2344400	82.91%	4.614%
3	5.912	5.852	6.002	BB	267121	2542268	89.91%	5.003%
4	6.349	6.287	6.404	BV	239319	2360738	83.49%	4.646%
5	6.966	6.919	7.069	BB	231953	2430098	85.94%	4.783%
6	8.141	8.075	8.217	BB	213778	2318564	82.00%	4.563%
7	9.739	9.680	9.822	BB	205003	2354911	83.28%	4.635%
8	11.178	11.134	11.259	BB	204273	2371472	83.87%	4.667%
9	11.489	11.422	11.554	BB	231621	2562300	90.62%	5.043%
10	12.485	12.419	12.550	BB	191206	2269993	80.28%	4.468%
11	12.928	12.872	12.984	BB	157502	1908552	67.50%	3.756%
12	13.096	13.027	13.162	BB	175434	2212168	78.23%	4.354%
13	13.681	13.651	13.740	VB	176870	2253524	79.70%	4.435%
14	14.781	14.752	14.847	VB	180545	2354797	83.28%	4.634%
15	15.801	15.722	15.872	BB	180881	2464814	87.17%	4.851%
16	16.749	16.685	16.819	BB	188950	2605167	92.13%	5.127%
17	17.634	17.557	17.674	PB	197072	2811564	99.43%	5.533%
18	18.465	18.409	18.539	BB	194108	2827636	100.00%	5.565%
19	19.248	19.200	19.342	BB	157048	2384491	84.33%	4.693%
20	19.985	19.942	20.020	BV	123398	1902295	67.28%	3.744%
21	20.706	20.644	20.779	BB	97059	1701011	60.16%	3.348%
22	21.587	21.424	21.687	BB	69036	1601480	56.64%	3.152%
			Sum of corrected areas:			50811170		

Aliphatic EPH 102324.M Tue Nov 05 16:10:05 2024

Evaluate Continuing Calibration Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC110424AL\
Data File : FC067630.D
Signal(s) : FID1A.ch
Acq On : 05 Nov 2024 11:43
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: Nov 05 15:47:55 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	111.446 E3	17.3	83	0.00
2	T	n-Decane (C10)	136.246	117.220 E3	14.0	87	0.00
3	T	A~Naphthalene (C11.7)	148.188	127.113 E3	14.2	86	0.00
4	T	n-Dodecane (C12)	135.442	118.037 E3	12.9	88	0.00
5	T	A~2-methylnaphthalene (C12.	141.221	121.505 E3	14.0	87	0.00
6	T	n-Tetradecane (C14)	131.261	115.928 E3	11.7	89	0.00
7	T	n-Hexadecane (C16)	132.103	117.746 E3	10.9	90	0.00
8	T	n-Octadecane (C18)	132.113	118.574 E3	10.2	91	0.00
9	S	ortho-Terphenyl (SURR)	146.731	128.115 E3	12.7	89	0.00
10	T	n-Eicosane (C20)	126.177	113.500 E3	10.0	91	0.00
11	T	n-Heneicosane (C21)	123.415	110.608 E3	10.4	91	0.00
12	S	1-chlorooctadecane (SURR)	107.988	95.428 E3	11.6	90	0.00
13	T	n-Docosane (C22)	122.449	112.676 E3	8.0	93	0.00
14	T	n-Tetracosane (C24)	121.210	117.740 E3	2.9	99	0.00
15	T	n-Hexacosane (C26)	119.056	123.241 E3	-3.5	105	0.00
16	T	n-Octacosane (C28)	117.647	130.258 E3	-10.7	112	0.00
17	T	n-Tricontane (C30)	120.871	140.578 E3	-16.3	118	0.00
18	T	n-Dotriacontane (C32)	118.320	141.382 E3	-19.5	122	0.00
19	T	n-Tetratriacontane (C34)	104.727	119.225 E3	-13.8	115	0.00
20	T	n-Hexatriacontane (C36)	91.027	95.115 E3	-4.5	106	0.00
21	T	n-Octatriacontane (C38)	86.602	85.051 E3	1.8	99	-0.01
22	T	n-Tetracontane (C40)	85.011	80.447 E3	5.4	96	-0.02

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 : FD110424AR

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
File ID :	**FD048640.D**						
Aromatic C10-C12	7057190.000	40.000	4.093	5.811	176429.750	176202.694	-0.129
Aromatic C12-C16	10560149.000	60.000	5.812	8.416	176002.483	177273.493	0.717
Aromatic C16-C21	12407458.000	80.000	8.417	12.676	155093.225	163832.550	5.334
Aromatic C21-C36	27916149.000	180.000	12.677	18.080	155089.717	152713.153	-1.556
Aromatic EPH	57940946.000	360.000	4.093	18.080	160947.072	161887.469	0.581

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:	04 Nov 2024 10:28
Client Sample ID:		Operator:	YP/AJ
Data file:	FD048640.D	Misc:	
Instrument:	FID_D	ALS Vial:	53
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aromatic C10-C12	4.093	5.811	7057190.000	40.000	ug/ml
Aromatic C12-C16	5.812	8.416	10560149.000	60.000	ug/ml
Aromatic C16-C21	8.417	12.676	12407458.000	80.000	ug/ml
Aromatic C21-C36	12.677	18.080	27916149.000	180.000	ug/ml
Aromatic EPH	4.093	18.080	57940946.000	360.000	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD110424AR\
Data File : FD048640.D
Signal(s) : FID2B.ch
Acq On : 04 Nov 2024 10:28
Operator : YP/AJ
Sample : 20 PPM AROMATIC HC STD
Misc :
ALS Vial : 53 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 11/06/2024
Supervised By :Ankita Jodhani 11/06/2024

Integration File: autoint1.e
Quant Time: Nov 05 02:07:18 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	3036038	20.003 ug/ml
Spiked Amount	50.000		Recovery =	40.01%
6) S	2-Flurobiphenyl (SURR)	8.220	1952016	19.880 ug/ml
Spiked Amount	50.000 Range	0 - 131	Recovery =	39.76%
11) S	ortho-Terphenyl (SURR)	11.253	3452142	20.266 ug/ml
Spiked Amount	50.000		Recovery =	40.53%
	Target Compounds			
1) T	1,2,3-Trimethylbenzen...	4.193	3475794	19.979 ug/ml
2) T	Naphthalene (C11.7)	5.711	3581396	20.071 ug/ml
3) T	2-Methylnaphthalene (...	6.757	3555384	19.877 ug/ml
5) T	Acenaphthylene (C15.06)	8.022	3451621	19.657 ug/ml
7) T	Acenaphthene (C15.5)	8.316	3553144	20.033 ug/ml
8) T	Flouorene (C16.55)	9.095	3372928	19.954 ug/ml
9) T	Phenanthrene (C19.36)	10.481	3275125	19.813 ug/ml
10) T	Anthracene (C19.43)	10.557	2488922	15.565 ug/ml
12) T	Fluoranthene (C21.85)	12.284	3294354	20.017 ug/ml
13) T	Pyrene (C20.8)	12.576	3270483	20.304 ug/ml
14) T	Benzo[a]anthracene (C...	14.445	2865037	19.595 ug/ml
15) T	Chrysene (C27.41)	14.486	3358348	20.416 ug/ml
16) T	benzo[b]fluoranthene ...	15.991	3197237	21.030 ug/mlm
17) T	Bnezo[k]fluoranthene ...	16.022	3113680	20.716 ug/mlm
18) T	Benzo[a]pyrene (C31.34)	16.367	2989994	19.868 ug/ml
19) T	Indeno[1,2,3-cd]pyren...	17.730	2495623	19.127 ug/ml
20) T	Dibenz[a,h]anthracene...	17.770	3448326	21.190 ug/ml
21) T	Benzo[g,h,i]perylene ...	17.980	3153550	20.599 ug/ml

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

Quantitation Report (QT Reviewed)

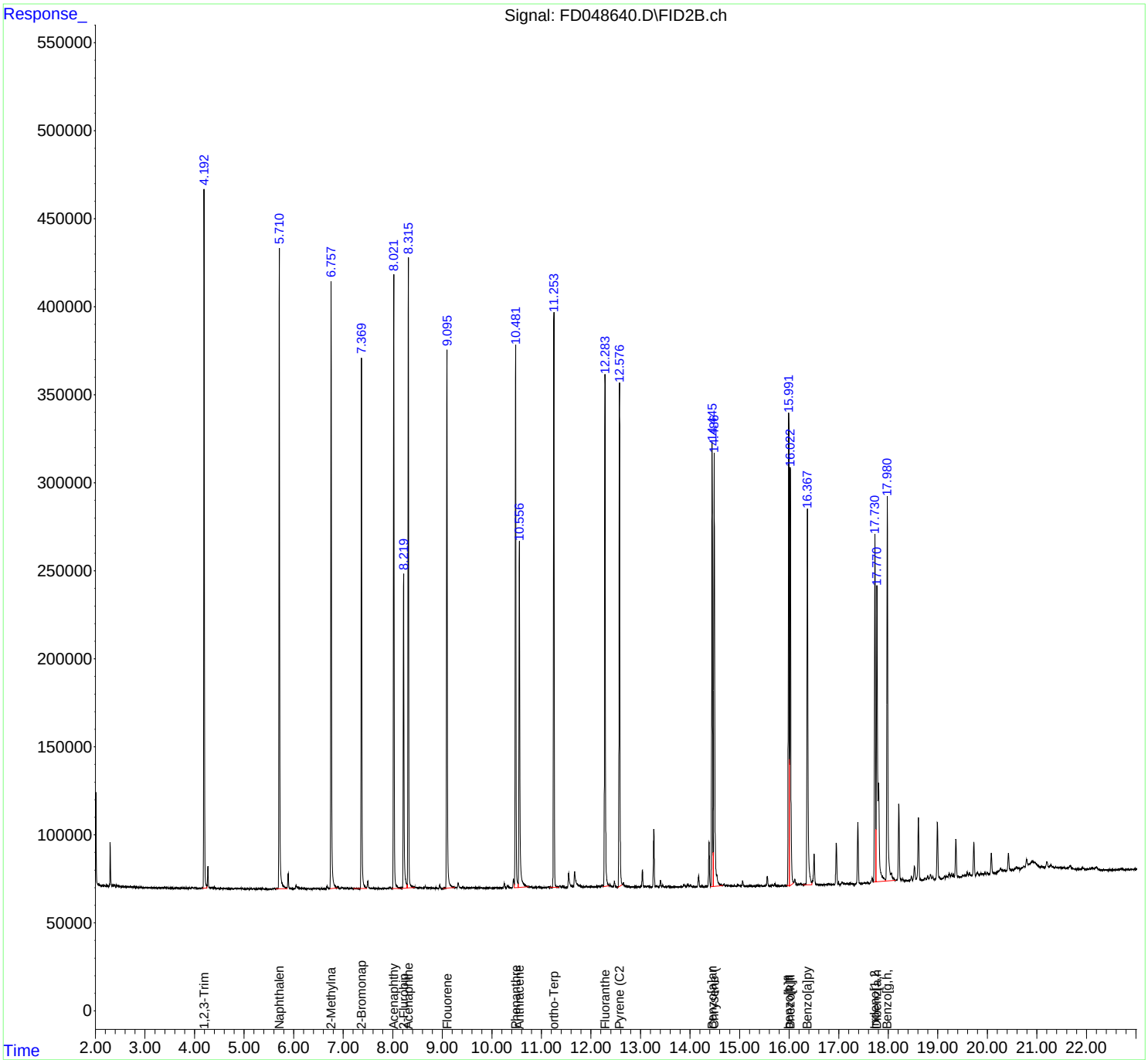
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD110424AR\
Data File : FD048640.D
Signal(s) : FID2B.ch
Acq On : 04 Nov 2024 10:28
Operator : YP/AJ
Sample : 20 PPM AROMATIC HC STD
Misc :
ALS Vial : 53 Sample Multiplier: 1

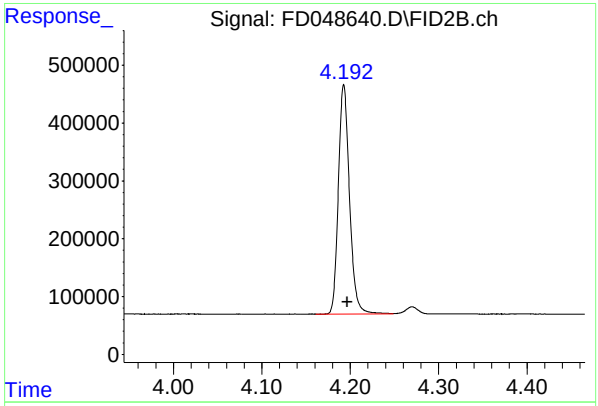
Integration File: autoint1.e
Quant Time: Nov 05 02:07:18 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 18:14:59 2024
Response via : Initial Calibration
Integrator: ChemStation

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 11/06/2024
Supervised By :Ankita Jodhani 11/06/2024





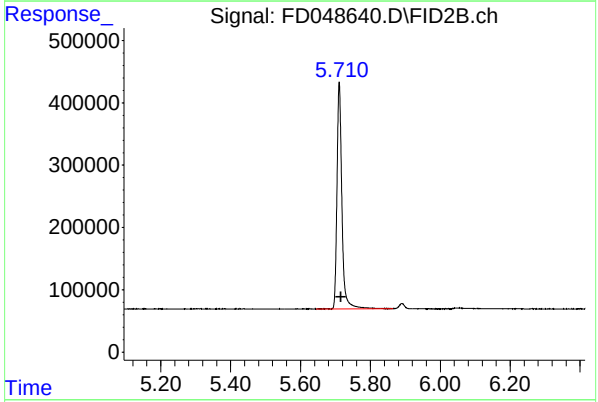
#1 1,2,3-Trimethylbenzene (C10.1)

R.T.: 4.193 min
Delta R.T.: -0.004 min
Response: 3475794
Conc: 19.98 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD

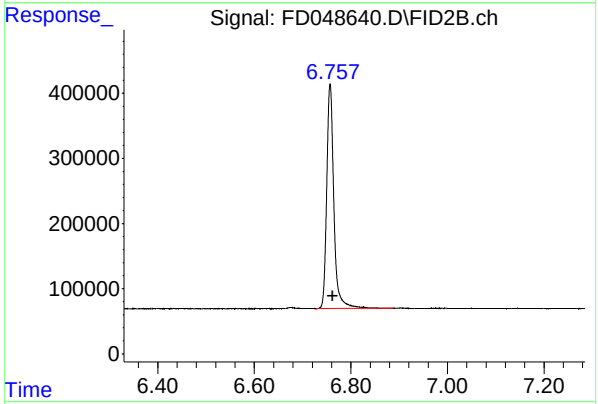
Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/06/2024
Supervised By :Ankita Jodhani 11/06/2024



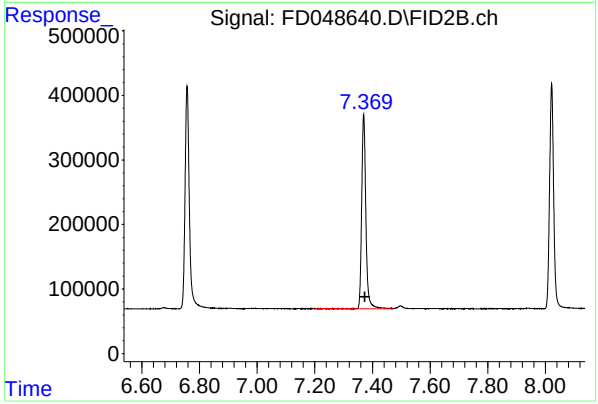
#2 Naphthalene (C11.7)

R.T.: 5.711 min
Delta R.T.: -0.005 min
Response: 3581396
Conc: 20.07 ug/ml



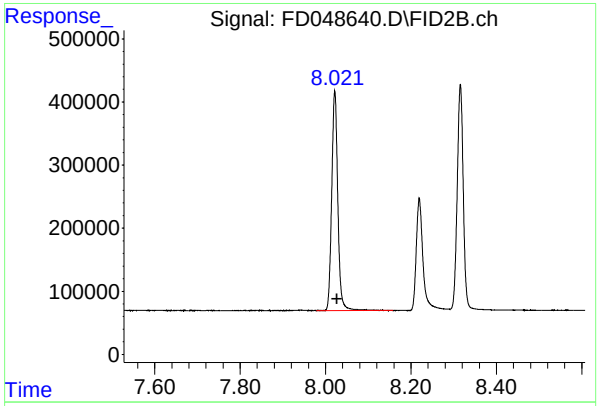
#3 2-Methylnaphthalene (C12.89)

R.T.: 6.757 min
Delta R.T.: -0.005 min
Response: 3555384
Conc: 19.88 ug/ml



#4 2-Bromonaphthalene (SURR)

R.T.: 7.370 min
Delta R.T.: -0.005 min
Response: 3036038
Conc: 20.00 ug/ml



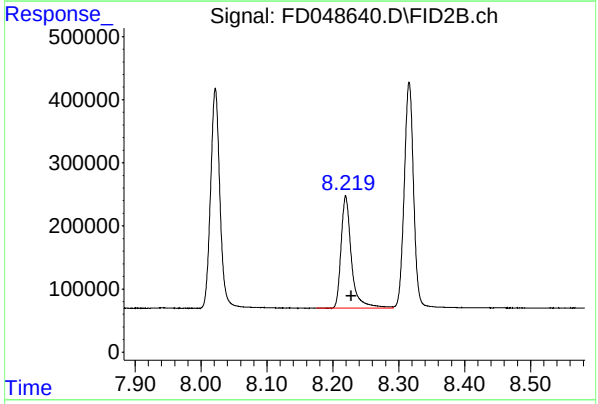
#5 Acenaphthylene (C15.06)

R.T.: 8.022 min
Delta R.T.: -0.005 min
Response: 3451621
Conc: 19.66 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD

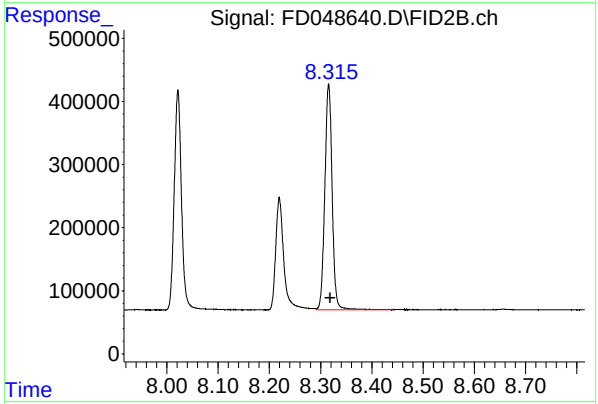
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/06/2024
Supervised By :Ankita Jodhani 11/06/2024



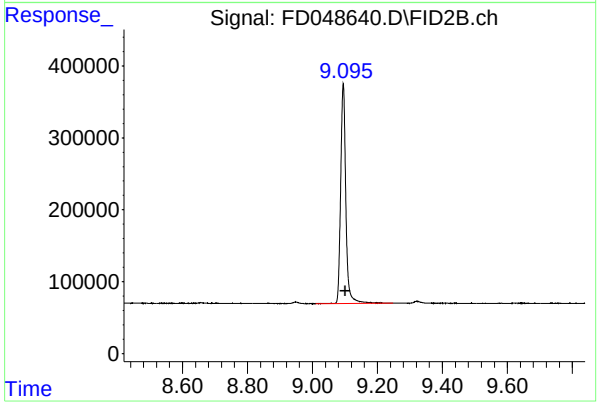
#6 2-Flurobiphenyl (SURR)

R.T.: 8.220 min
Delta R.T.: -0.008 min
Response: 1952016
Conc: 19.88 ug/ml



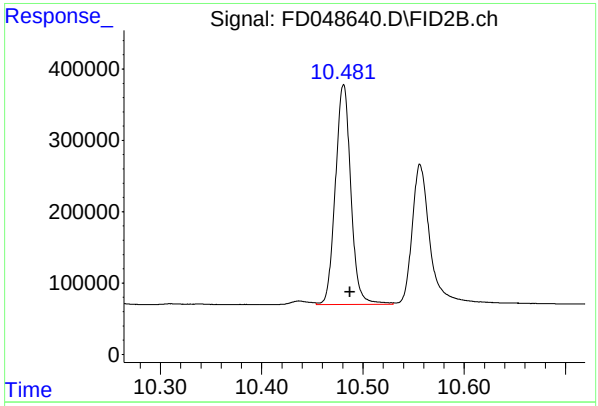
#7 Acenaphthene (C15.5)

R.T.: 8.316 min
Delta R.T.: -0.003 min
Response: 3553144
Conc: 20.03 ug/ml



#8 Flouorene (C16.55)

R.T.: 9.095 min
Delta R.T.: -0.006 min
Response: 3372928
Conc: 19.95 ug/ml



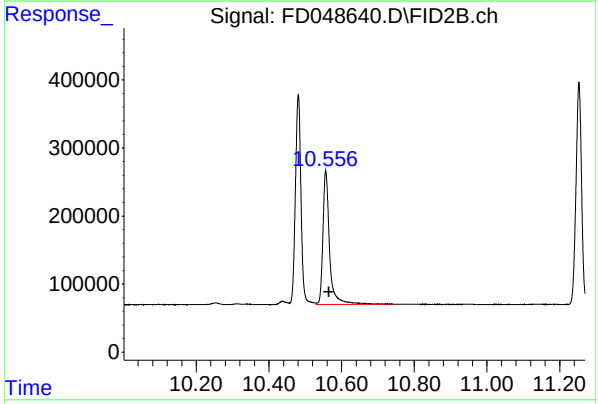
#9 Phenanthrene (C19.36)

R.T.: 10.481 min
Delta R.T.: -0.006 min
Response: 3275125
Conc: 19.81 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD

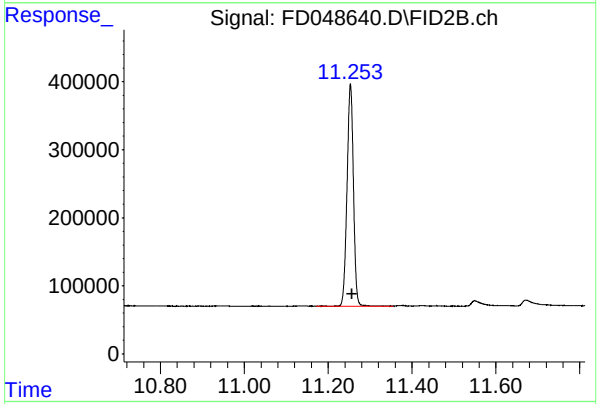
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/06/2024
Supervised By :Ankita Jodhani 11/06/2024



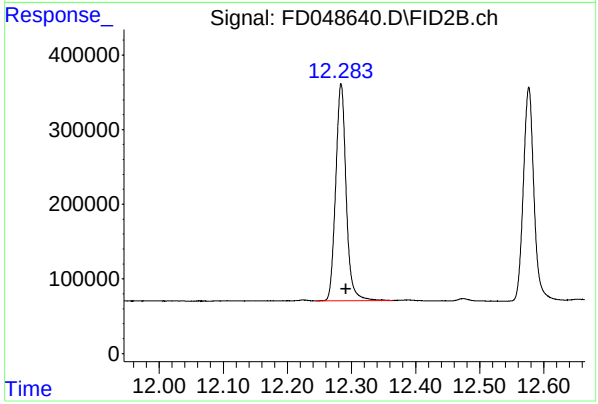
#10 Anthracene (C19.43)

R.T.: 10.557 min
Delta R.T.: -0.008 min
Response: 2488922
Conc: 15.56 ug/ml



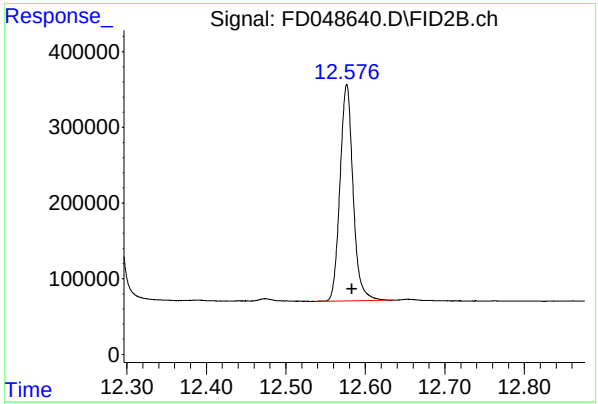
#11 ortho-Terphenyl (SURR)

R.T.: 11.253 min
Delta R.T.: -0.004 min
Response: 3452142
Conc: 20.27 ug/ml



#12 Fluoranthene (C21.85)

R.T.: 12.284 min
Delta R.T.: -0.008 min
Response: 3294354
Conc: 20.02 ug/ml



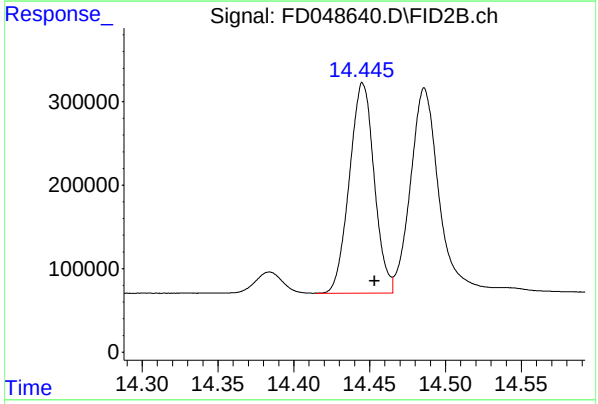
#13 Pyrene (C20.8)

R.T.: 12.576 min
Delta R.T.: -0.007 min
Response: 3270483
Conc: 20.30 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD

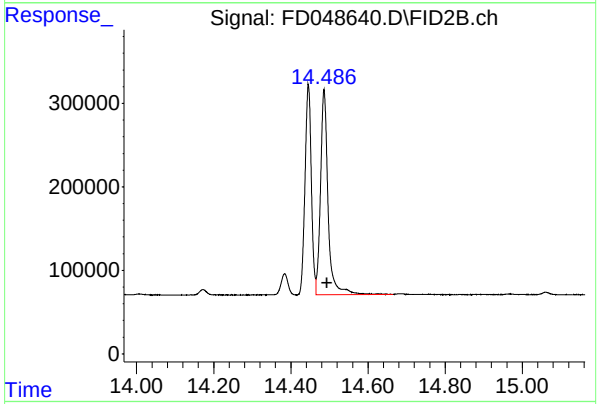
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/06/2024
Supervised By :Ankita Jodhani 11/06/2024



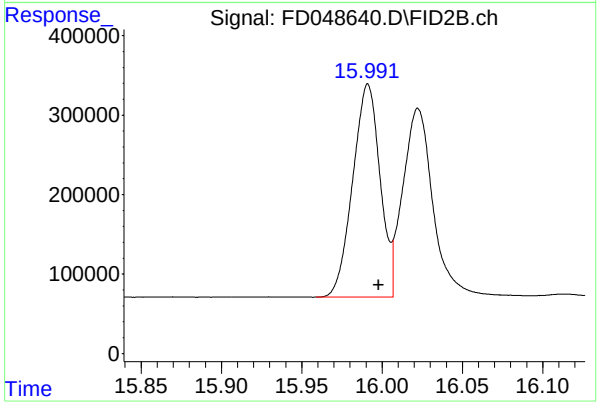
#14 Benzo[a]anthracene (C26.37)

R.T.: 14.445 min
Delta R.T.: -0.008 min
Response: 2865037
Conc: 19.59 ug/ml



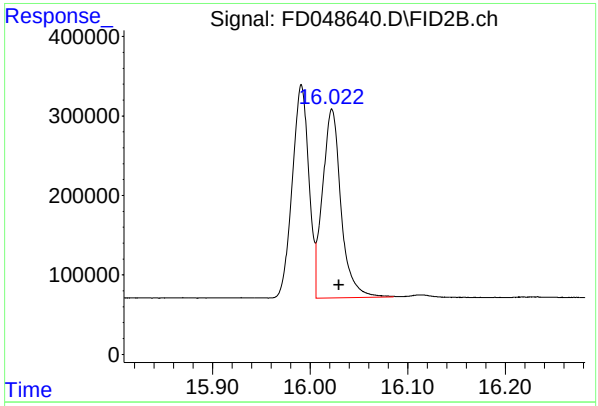
#15 Chrysene (C27.41)

R.T.: 14.486 min
Delta R.T.: -0.007 min
Response: 3358348
Conc: 20.42 ug/ml



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

R.T.: 15.991 min
Delta R.T.: -0.007 min
Response: 3197237
Conc: 21.03 ug/ml m



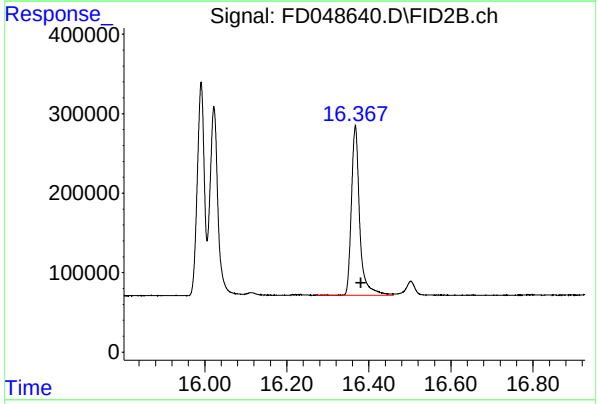
#17 Bnezo[k]fluoranthene (C30.14)

R.T.: 16.022 min
Delta R.T.: -0.008 min
Response: 3113680
Conc: 20.72 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD

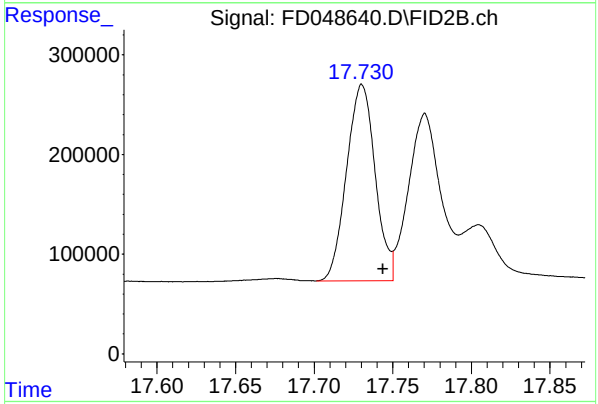
Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/06/2024
Supervised By :Ankita Jodhani 11/06/2024



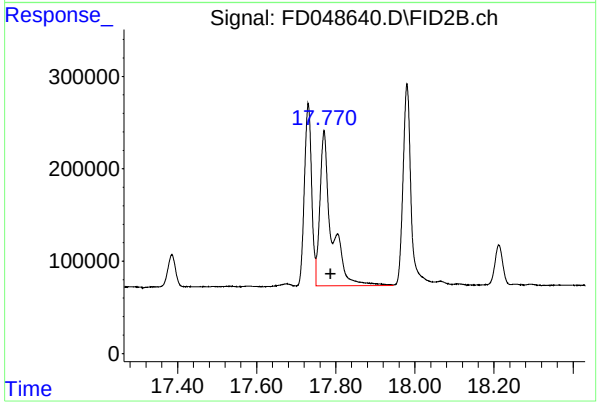
#18 Benzo[a]pyrene (C31.34)

R.T.: 16.367 min
Delta R.T.: -0.014 min
Response: 2989994
Conc: 19.87 ug/ml



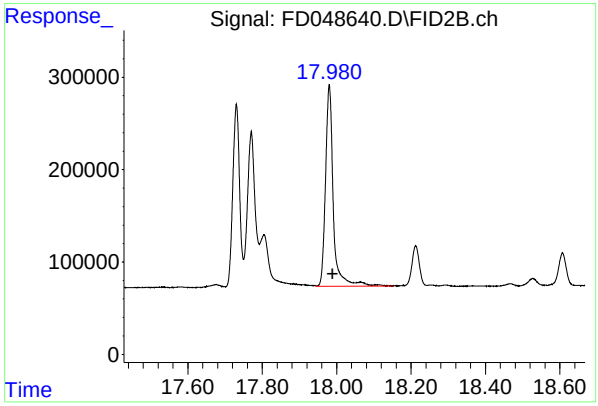
#19 Indeno[1,2,3-cd]pyrene (C35.01)

R.T.: 17.730 min
Delta R.T.: -0.014 min
Response: 2495623
Conc: 19.13 ug/ml



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

R.T.: 17.770 min
Delta R.T.: -0.016 min
Response: 3448326
Conc: 21.19 ug/ml



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

R.T.: 17.980 min
Delta R.T.: -0.010 mi
Response: 3153550
Conc: 20.60 ug/m

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/06/2024
Supervised By :Ankita Jodhani 11/06/2024

Instrument :
FID_D
LabSampleId :
20 PPM AROMATIC HC STD

rteres

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/06/2024
Supervised By :Ankita Jodhani 11/06/2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD11042
Data File : FD048640.D
Signal(s) : FID2B.ch
Acq On : 04 Nov 2024 10:28
Sample : 20 PPM AROMATIC HC STD
Misc :
ALS Vial : 53 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	4.193	4.161	4.248	BV	393429	3475794	97.05%	5.242%
2	5.711	5.645	5.865	BV	362103	3581396	100.00%	5.401%
3	6.757	6.728	6.887	PV	344508	3555384	99.27%	5.362%
4	7.370	7.205	7.471	BV	298388	3036038	84.77%	4.579%
5	8.022	7.978	8.158	BB	347829	3451621	96.38%	5.206%
6	8.220	8.175	8.291	BV	174606	1952016	54.50%	2.944%
7	8.316	8.291	8.441	VB	356117	3553144	99.21%	5.359%
8	9.095	9.011	9.248	BB	305394	3372928	94.18%	5.087%
9	10.481	10.454	10.530	VV	309065	3275125	91.45%	4.940%
10	10.557	10.530	10.741	VB	193608	2488922	69.50%	3.754%
11	11.253	11.171	11.355	BV	325909	3452142	96.39%	5.206%
12	12.284	12.245	12.365	PV	291975	3294354	91.99%	4.969%
13	12.577	12.538	12.635	PV	287858	3270483	91.32%	4.933%
14	14.445	14.415	14.465	PV	251918	2865037	80.00%	4.321%
15	14.486	14.465	14.665	VV	244509	3358348	93.77%	5.065%
16	15.991	15.959	16.005	M	268377	3136413	87.58%	4.730%
17	16.022	16.006	16.088	M	237403	3098053	86.50%	4.672%
18	16.367	16.271	16.459	BV	213984	2989994	83.49%	4.509%
19	17.730	17.701	17.750	BV	197864	2495623	69.68%	3.764%
20	17.770	17.750	17.945	VV	167653	3448326	96.28%	5.201%
21	17.980	17.945	18.151	VB	218966	3153550	88.05%	4.756%
			Sum of corrected areas:			66304691		

Aromatic EPH 102324.M Tue Nov 05 03:28:31 2024

Evaluate Continuing Calibration Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD110424AR\
Data File : FD048640.D
Signal(s) : FID2B.ch
Acq On : 04 Nov 2024 10:28
Operator : YP/AJ
Sample : 20 PPM AROMATIC HC STD
Misc :
ALS Vial : 53 Sample Multiplier: 1

Instrument :
FID_D
LabSampleId :
20 PPM AROMATIC HC STD

Integration File: autoint1.e
Quant Time: Nov 05 02:07:18 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	173.790	E3	0.1	100	0.00
2	T	Naphthalene (C11.7)	178.434	179.070	E3	-0.4	100	0.00
3	T	2-Methylnaphthalene (C12.89	178.865	177.769	E3	0.6	99	0.00
4	S	2-Bromonaphthalene (SURR)	151.779	151.802	E3	-0.0	100	0.00
5	T	Acenaphthylene (C15.06)	175.592	172.581	E3	1.7	98	0.00
6	S	2-Flurobiphenyl (SURR)	98.192	97.601	E3	0.6	98	0.00
7	T	Acenaphthene (C15.5)	177.363	177.657	E3	-0.2	100	0.00
8	T	Flouorene (C16.55)	169.037	168.646	E3	0.2	99	0.00
9	T	Phenanthrene (C19.36)	165.306	163.756	E3	0.9	98	0.00
10	T	Anthracene (C19.43)	159.910	124.446	E3	22.2	77	0.00
11	S	ortho-Terphenyl (SURR)	170.340	172.607	E3	-1.3	102	0.00
12	T	Fluoranthene (C21.85)	164.577	164.718	E3	-0.1	100	0.00
13	T	Pyrene (C20.8)	161.077	163.524	E3	-1.5	101	0.00
14	T	Benzo[a]anthracene (C26.37)	146.215	143.252	E3	2.0	96	0.00
15	T	Chrysene (C27.41)	164.492	167.917	E3	-2.1	103	0.00
16	T	benzo[b]fluoranthene (C30.4	152.029	159.862	E3	-5.2	104	0.00
17	T	Bnezo[k]fluoranthene (C30.1	150.304	155.684	E3	-3.6	103	0.00
18	T	Benzo[a]pyrene (C31.34)	150.496	149.500	E3	0.7	99	-0.01
19	T	Indeno[1,2,3-cd]pyrene (C35	130.478	124.781	E3	4.4	95	-0.01
20	T	Dibenz[a,h]anthracene (C30.	162.735	172.416	E3	-5.9	106	-0.02
21	T	Benzo[g,h,i]perylene (C34.0	153.092	157.677	E3	-3.0	102	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 : FD110424AR

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
File ID :	**FD048657.D**						
Aromatic C10-C12	7232535.000	40.000	4.093	5.811	180813.375	176202.694	-2.617
Aromatic C12-C16	10879276.000	60.000	5.812	8.416	181321.267	177273.493	-2.283
Aromatic C16-C21	12923258.000	80.000	8.417	12.676	161540.725	163832.550	1.399
Aromatic C21-C36	29367307.000	180.000	12.677	18.080	163151.706	152713.153	-6.835
Aromatic EPH	60402376.000	360.000	4.093	18.080	167784.378	161887.469	-3.643

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:	05 Nov 2024 02:22
Client Sample ID:		Operator:	YP/AJ
Data file:	FD048657.D	Misc:	
Instrument:	FID_D	ALS Vial:	52
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aromatic C10-C12	4.093	5.811	7232535.000	40.000	ug/ml
Aromatic C12-C16	5.812	8.416	10879276.000	60.000	ug/ml
Aromatic C16-C21	8.417	12.676	12923258.000	80.000	ug/ml
Aromatic C21-C36	12.677	18.080	29367307.000	180.000	ug/ml
Aromatic EPH	4.093	18.080	60402376.000	360.000	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD110424AR\
Data File : FD048657.D
Signal(s) : FID2B.ch
Acq On : 05 Nov 2024 02:22
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 11/06/2024
Supervised By :Ankita Jodhani 11/06/2024

Integration File: autoint1.e
Quant Time: Nov 05 03:11:58 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	3145173	20.722 ug/ml
Spiked Amount	50.000		Recovery =	41.44%
6) S	2-Flurobiphenyl (SURR)	8.218	2043970	20.816 ug/ml
Spiked Amount	50.000 Range	0 - 131	Recovery =	41.63%
11) S	ortho-Terphenyl (SURR)	11.253	3546262	20.819 ug/mlm
Spiked Amount	50.000		Recovery =	41.64%
	Target Compounds			
1) T	1,2,3-Trimethylbenzen...	4.192	3561842	20.474 ug/ml
2) T	Naphthalene (C11.7)	5.710	3670693	20.572 ug/ml
3) T	2-Methylnaphthalene (...	6.756	3665925	20.495 ug/ml
5) T	Acenaphthylene (C15.06)	8.021	3554619	20.244 ug/ml
7) T	Acenaphthene (C15.5)	8.316	3658732	20.628 ug/ml
8) T	Flouorene (C16.55)	9.094	3512499	20.779 ug/ml
9) T	Phenanthrene (C19.36)	10.480	3424532	20.716 ug/ml
10) T	Anthracene (C19.43)	10.556	2594686	16.226 ug/ml
12) T	Fluoranthene (C21.85)	12.284	3449027	20.957 ug/ml
13) T	Pyrene (C20.8)	12.577	3391541	21.055 ug/ml
14) T	Benzo[a]anthracene (C...	14.446	3063624	20.953 ug/ml
15) T	Chrysene (C27.41)	14.488	3277113	19.923 ug/ml
16) T	benzo[b]fluoranthene ...	15.993	3299464	21.703 ug/ml
17) T	Bnezo[k]fluoranthene ...	16.024	3257688	21.674 ug/ml
18) T	Benzo[a]pyrene (C31.34)	16.368	3149734	20.929 ug/ml
19) T	Indeno[1,2,3-cd]pyren...	17.732	2853671	21.871 ug/ml
20) T	Dibenz[a,h]anthracene...	17.771	3826892	23.516 ug/mlm
21) T	Benzo[g,h,i]perylene ...	17.982	3190094	20.838 ug/ml

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

Quantitation Report (QT Reviewed)

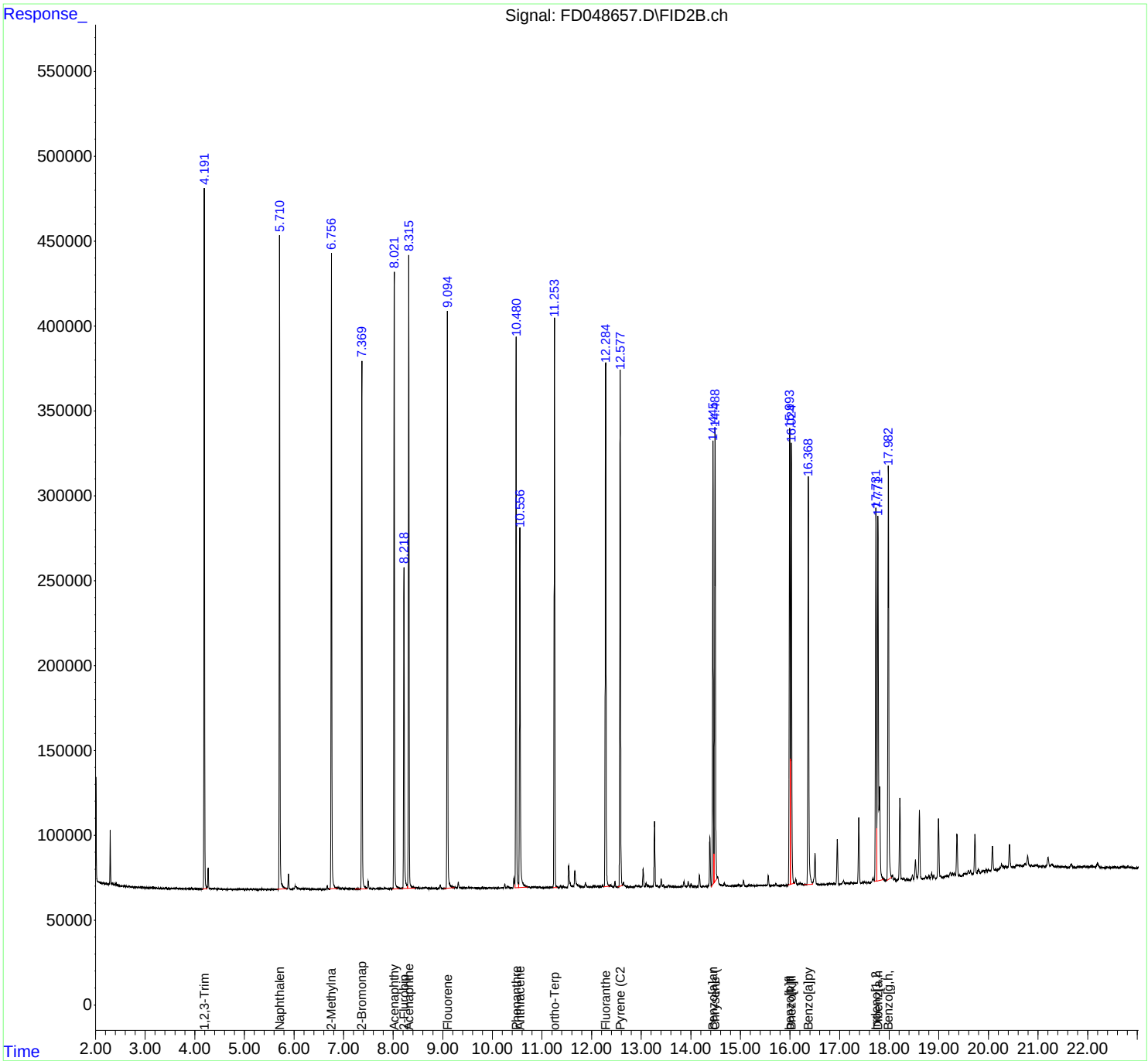
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD110424AR\
Data File : FD048657.D
Signal(s) : FID2B.ch
Acq On : 05 Nov 2024 02:22
Operator : YP/AJ
Sample : 20 PPM AROMATIC HC STD
Misc :
ALS Vial : 52 Sample Multiplier: 1

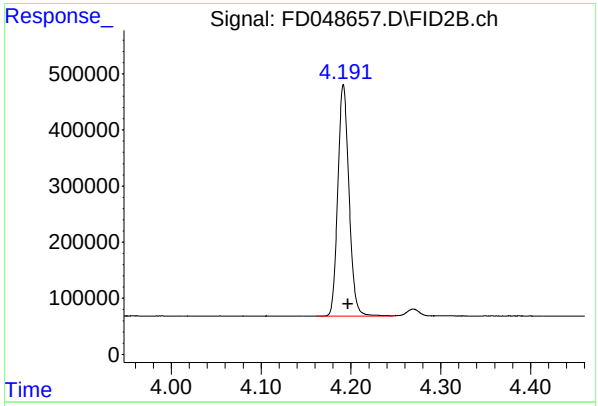
Integration File: autoint1.e
Quant Time: Nov 05 03:11:58 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 18:14:59 2024
Response via : Initial Calibration
Integrator: ChemStation

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 11/06/2024
Supervised By :Ankita Jodhani 11/06/2024





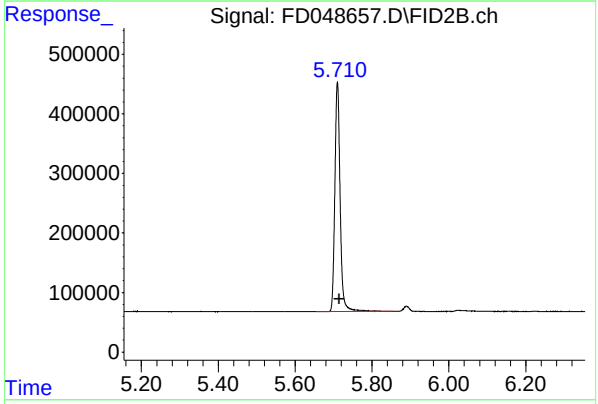
#1 1,2,3-Trimethylbenzene (C10.1)

R.T.: 4.192 min
Delta R.T.: -0.005 min
Response: 3561842
Conc: 20.47 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD

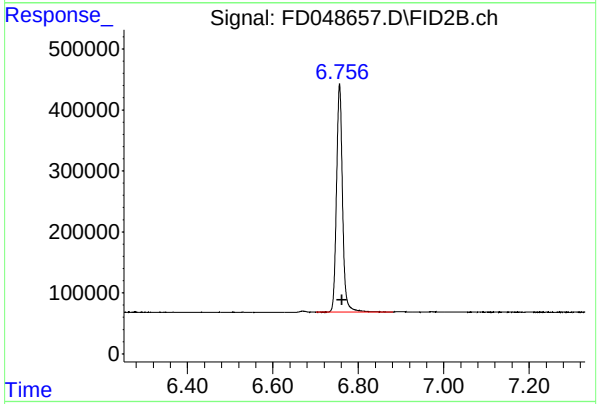
Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/06/2024
Supervised By :Ankita Jodhani 11/06/2024



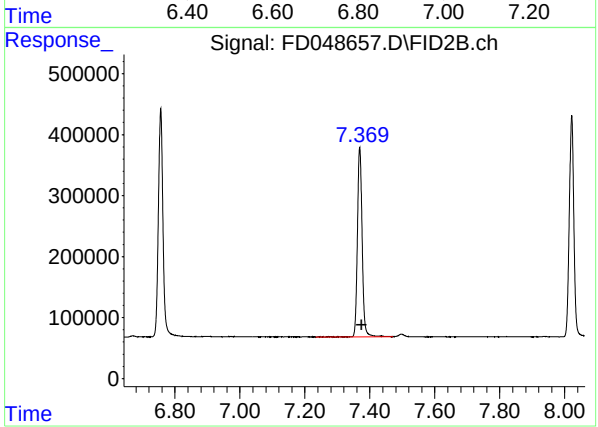
#2 Naphthalene (C11.7)

R.T.: 5.710 min
Delta R.T.: -0.006 min
Response: 3670693
Conc: 20.57 ug/ml



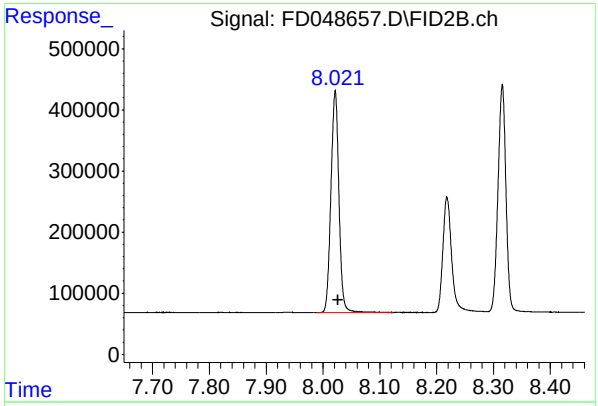
#3 2-Methylnaphthalene (C12.89)

R.T.: 6.756 min
Delta R.T.: -0.006 min
Response: 3665925
Conc: 20.50 ug/ml



#4 2-Bromonaphthalene (SURR)

R.T.: 7.369 min
Delta R.T.: -0.006 min
Response: 3145173
Conc: 20.72 ug/ml



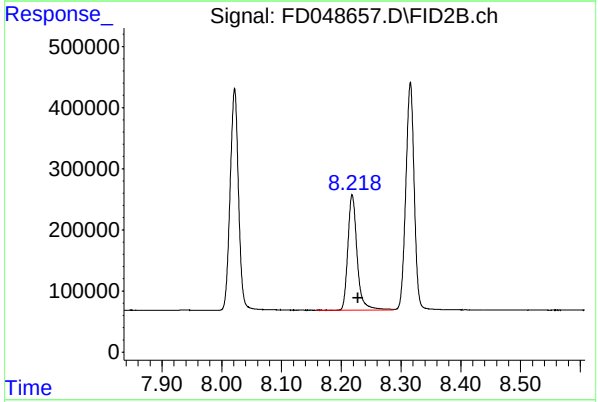
#5 Acenaphthylene (C15.06)

R.T.: 8.021 min
Delta R.T.: -0.005 min
Response: 3554619
Conc: 20.24 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD

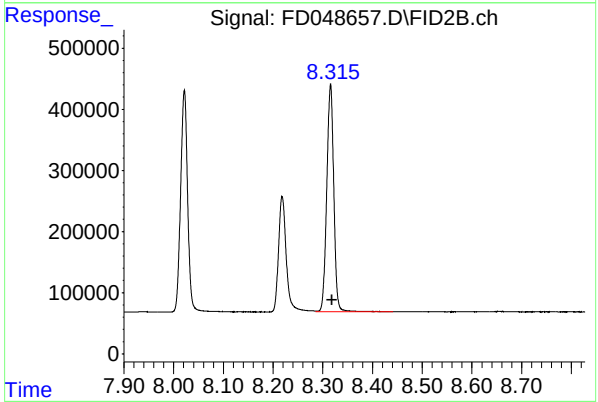
Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/06/2024
Supervised By :Ankita Jodhani 11/06/2024



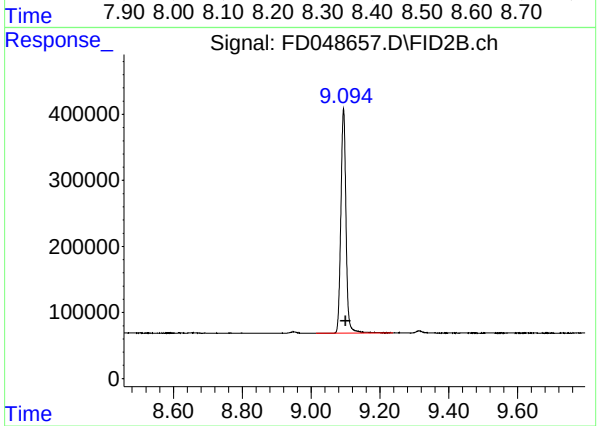
#6 2-Flurobiphenyl (SURR)

R.T.: 8.218 min
Delta R.T.: -0.010 min
Response: 2043970
Conc: 20.82 ug/ml



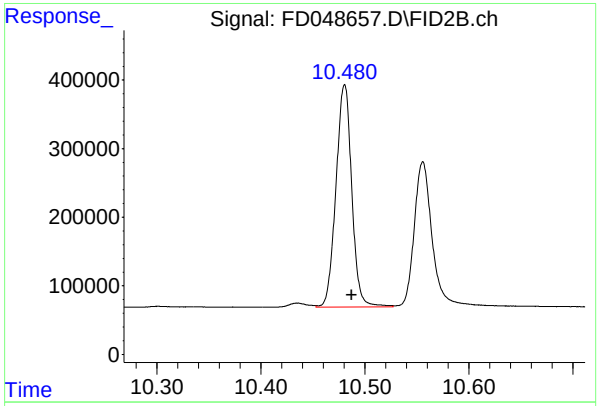
#7 Acenaphthene (C15.5)

R.T.: 8.316 min
Delta R.T.: -0.003 min
Response: 3658732
Conc: 20.63 ug/ml



#8 Flouorene (C16.55)

R.T.: 9.094 min
Delta R.T.: -0.006 min
Response: 3512499
Conc: 20.78 ug/ml



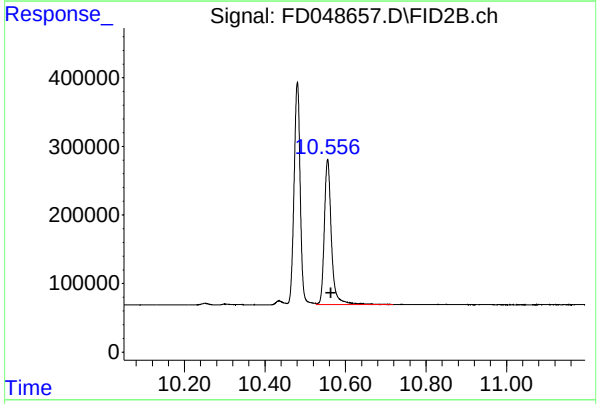
#9 Phenanthrene (C19.36)

R.T.: 10.480 min
Delta R.T.: -0.007 min
Response: 3424532
Conc: 20.72 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD

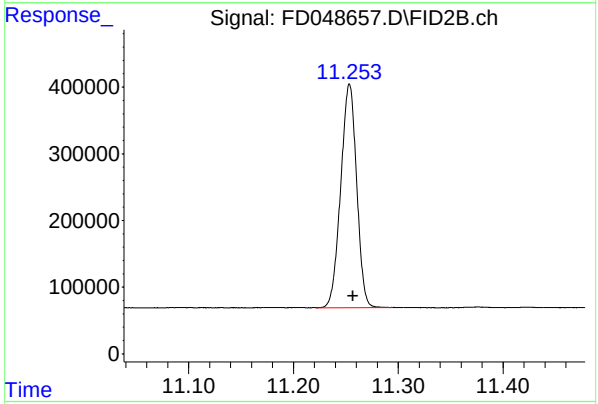
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/06/2024
Supervised By :Ankita Jodhani 11/06/2024



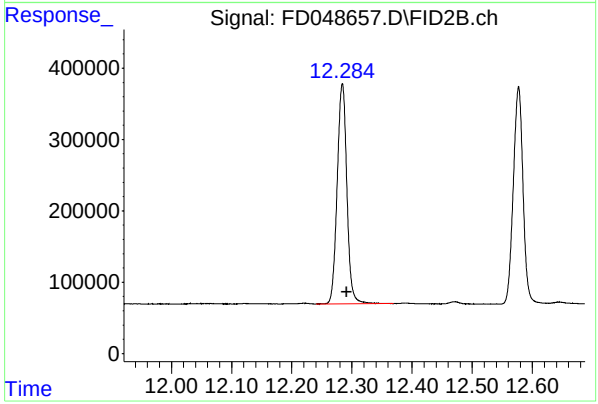
#10 Anthracene (C19.43)

R.T.: 10.556 min
Delta R.T.: -0.009 min
Response: 2594686
Conc: 16.23 ug/ml



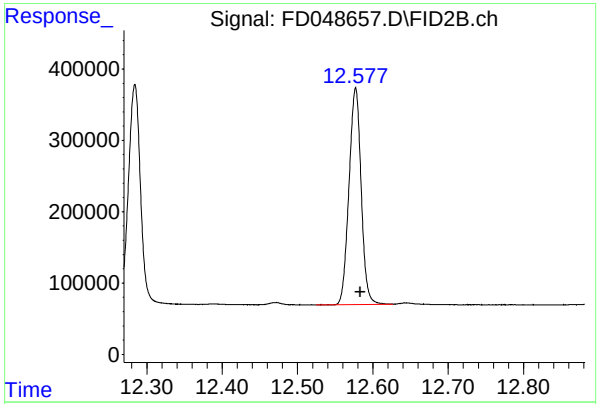
#11 ortho-Terphenyl (SURR)

R.T.: 11.253 min
Delta R.T.: -0.004 min
Response: 3546262
Conc: 20.82 ug/ml m



#12 Fluoranthene (C21.85)

R.T.: 12.284 min
Delta R.T.: -0.007 min
Response: 3449027
Conc: 20.96 ug/ml



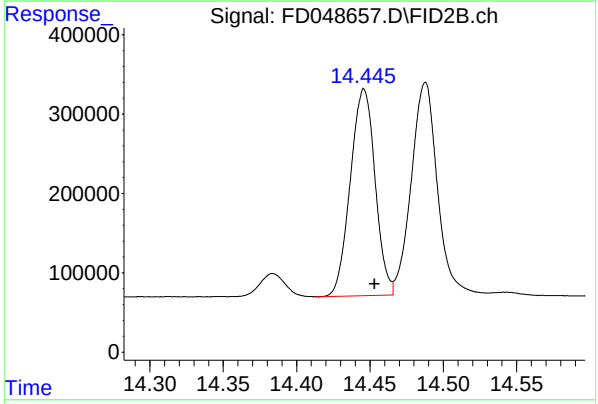
#13 Pyrene (C20.8)

R.T.: 12.577 min
Delta R.T.: -0.006 min
Response: 3391541
Conc: 21.06 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD

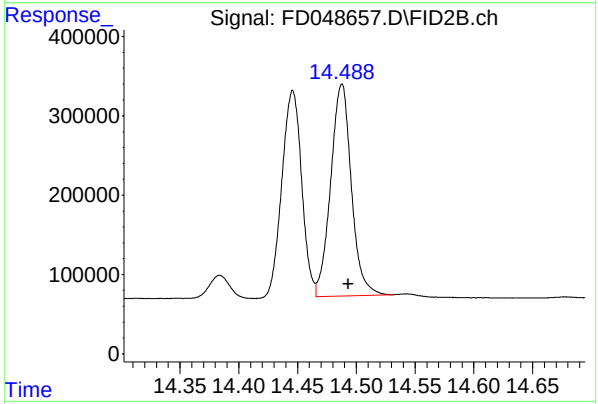
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/06/2024
Supervised By :Ankita Jodhani 11/06/2024



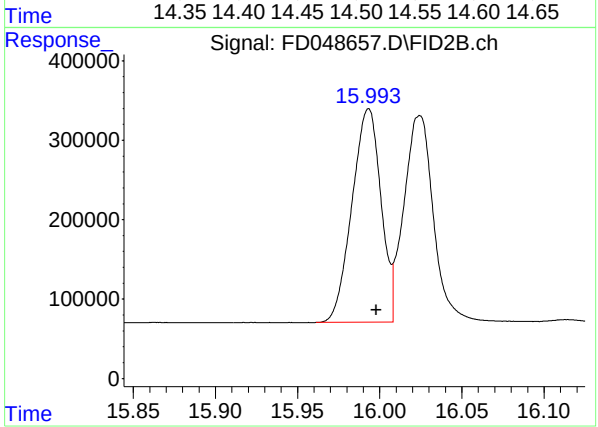
#14 Benzo[a]anthracene (C26.37)

R.T.: 14.446 min
Delta R.T.: -0.008 min
Response: 3063624
Conc: 20.95 ug/ml



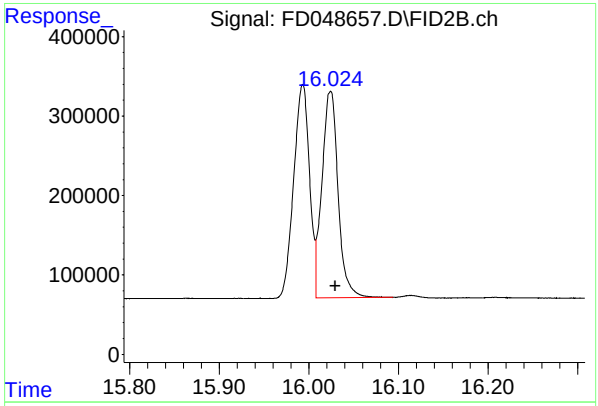
#15 Chrysene (C27.41)

R.T.: 14.488 min
Delta R.T.: -0.006 min
Response: 3277113
Conc: 19.92 ug/ml



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

R.T.: 15.993 min
Delta R.T.: -0.005 min
Response: 3299464
Conc: 21.70 ug/ml



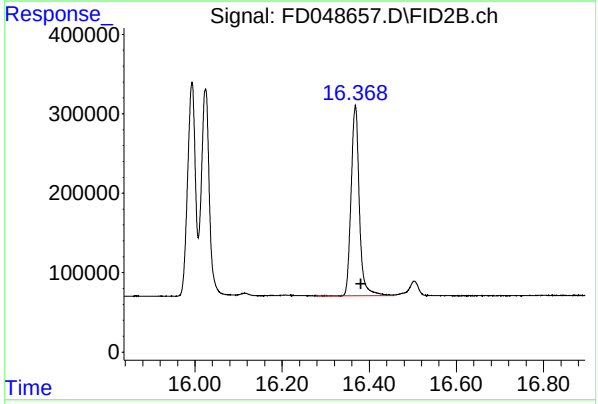
#17 Bnezo[k]fluoranthene (C30.14)

R.T.: 16.024 min
Delta R.T.: -0.006 mi
Response: 3257688
Conc: 21.67 ug/m

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD

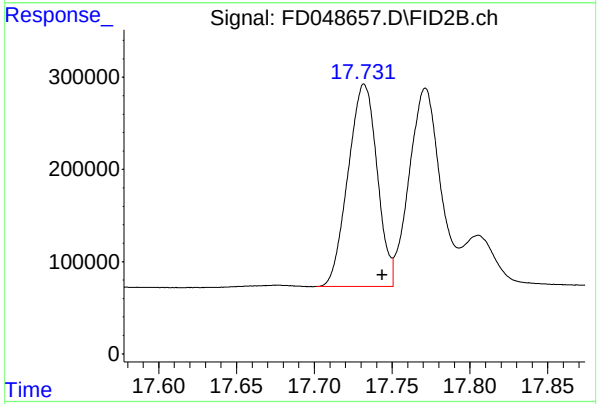
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/06/2024
Supervised By :Ankita Jodhani 11/06/2024



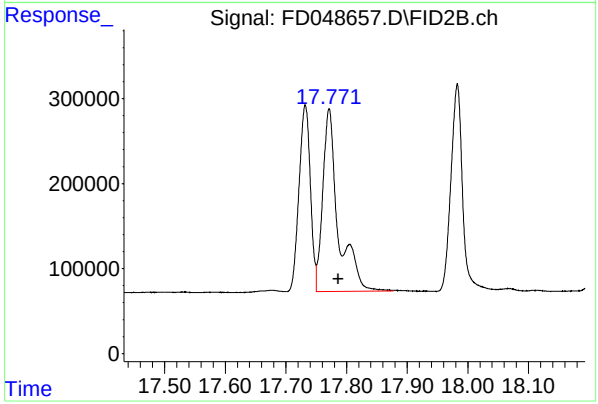
#18 Benzo[a]pyrene (C31.34)

R.T.: 16.368 min
Delta R.T.: -0.013 min
Response: 3149734
Conc: 20.93 ug/ml



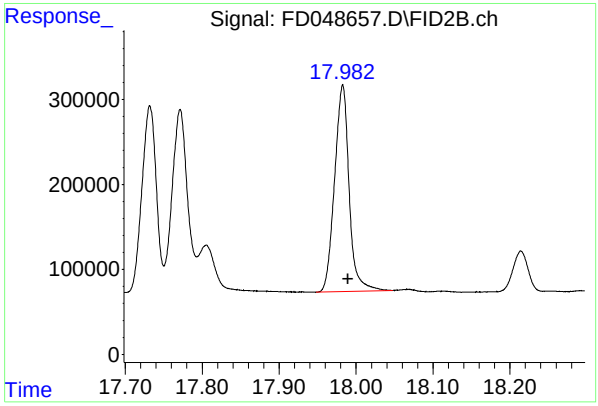
#19 Indeno[1,2,3-cd]pyrene (C35.01)

R.T.: 17.732 min
Delta R.T.: -0.012 min
Response: 2853671
Conc: 21.87 ug/ml



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

R.T.: 17.771 min
Delta R.T.: -0.015 min
Response: 3826892
Conc: 23.52 ug/ml m



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

R.T.: 17.982 min
Delta R.T.: -0.007 mi
Response: 3190094
Conc: 20.84 ug/m

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/06/2024
Supervised By :Ankita Jodhani 11/06/2024

Instrument :
FID_D
LabSampleId :
20 PPM AROMATIC HC STD

rteres

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/06/2024
Supervised By :Ankita Jodhani 11/06/2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD11042
Data File : FD048657.D
Signal(s) : FID2B.ch
Acq On : 05 Nov 2024 02:22
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	4.192	4.161	4.247	BV	410855	3561842	97.03%	5.212%
2	5.710	5.655	5.855	BB	384607	3670693	100.00%	5.371%
3	6.756	6.701	6.881	BV	369033	3665925	99.87%	5.364%
4	7.369	7.235	7.471	BV	311212	3145173	85.68%	4.602%
5	8.021	7.988	8.123	BB	362187	3554619	96.84%	5.201%
6	8.218	8.158	8.287	BV	188668	2043970	55.68%	2.991%
7	8.316	8.287	8.441	VB	369088	3658732	99.67%	5.354%
8	9.094	9.015	9.238	BB	339975	3512499	95.69%	5.140%
9	10.480	10.453	10.527	VV	326360	3424532	93.29%	5.011%
10	10.556	10.527	10.718	VB	210934	2594686	70.69%	3.797%
11	11.253	11.011	11.338	BB	336723	3570061	97.26%	5.224%
12	12.284	12.240	12.368	PV	309409	3449027	93.96%	5.047%
13	12.577	12.525	12.627	BV	304749	3391541	92.40%	4.963%
14	14.446	14.413	14.466	PV	259408	3063624	83.46%	4.483%
15	14.488	14.466	14.531	VV	268253	3277113	89.28%	4.795%
16	15.993	15.961	16.008	BV	271353	3299464	89.89%	4.828%
17	16.024	16.008	16.094	VV	260607	3257688	88.75%	4.767%
18	16.368	16.278	16.454	BV	239070	3149734	85.81%	4.609%
19	17.732	17.701	17.751	BV	219633	2853671	77.74%	4.176%
20	17.771	17.751	17.794	VV	215432	3006307	81.90%	4.399%
21	17.982	17.948	18.048	PV	241370	3190094	86.91%	4.668%
			Sum of corrected areas:			68340995		

Aromatic EPH 102324.M Tue Nov 05 03:40:31 2024

Evaluate Continuing Calibration Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD110424AR\
Data File : FD048657.D
Signal(s) : FID2B.ch
Acq On : 05 Nov 2024 02:22
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: Nov 05 03:11:58 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	178.092	E3	-2.4	103	0.00
2	T	Naphthalene (C11.7)	178.434	183.535	E3	-2.9	102	0.00
3	T	2-Methylnaphthalene (C12.89	178.865	183.296	E3	-2.5	102	0.00
4	S	2-Bromonaphthalene (SURR)	151.779	157.259	E3	-3.6	103	0.00
5	T	Acenaphthylene (C15.06)	175.592	177.731	E3	-1.2	101	0.00
6	S	2-Flurobiphenyl (SURR)	98.192	102.199	E3	-4.1	102	0.00
7	T	Acenaphthene (C15.5)	177.363	182.937	E3	-3.1	103	0.00
8	T	Flouorene (C16.55)	169.037	175.625	E3	-3.9	103	0.00
9	T	Phenanthrene (C19.36)	165.306	171.227	E3	-3.6	103	0.00
10	T	Anthracene (C19.43)	159.910	129.734	E3	18.9	81	0.00
11	S	ortho-Terphenyl (SURR)	170.340	177.313	E3	-4.1	105	0.00
12	T	Fluoranthene (C21.85)	164.577	172.451	E3	-4.8	105	0.00
13	T	Pyrene (C20.8)	161.077	169.577	E3	-5.3	105	0.00
14	T	Benzo[a]anthracene (C26.37)	146.215	153.181	E3	-4.8	103	0.00
15	T	Chrysene (C27.41)	164.492	163.856	E3	0.4	101	0.00
16	T	benzo[b]fluoranthene (C30.4	152.029	164.973	E3	-8.5	107	0.00
17	T	Bnezo[k]fluoranthene (C30.1	150.304	162.884	E3	-8.4	108	0.00
18	T	Benzo[a]pyrene (C31.34)	150.496	157.487	E3	-4.6	104	-0.01
19	T	Indeno[1,2,3-cd]pyrene (C35	130.478	142.684	E3	-9.4	108	-0.01
20	T	Dibenz[a,h]anthracene (C30.	162.735	191.345	E3	-17.6	117	-0.02
21	T	Benzo[g,h,i]perylene (C34.0	153.092	159.505	E3	-4.2	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 : FD110424AR

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
File ID :	**FD048662.D**						
Aromatic C10-C12	7356795.000	40.000	4.093	5.811	183919.875	176202.694	-4.380
Aromatic C12-C16	11021427.000	60.000	5.812	8.416	183690.450	177273.493	-3.620
Aromatic C16-C21	13086535.000	80.000	8.417	12.676	163581.688	163832.550	0.153
Aromatic C21-C36	29567316.000	180.000	12.677	18.080	164262.867	152713.153	-7.563
Aromatic EPH	61032073.000	360.000	4.093	18.080	169533.536	161887.469	-4.723

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:	05 Nov 2024 05:24
Client Sample ID:		Operator:	YP/AJ
Data file:	FD048662.D	Misc:	
Instrument:	FID_D	ALS Vial:	52
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aromatic C10-C12	4.093	5.811	7356795.000	40.000	ug/ml
Aromatic C12-C16	5.812	8.416	11021427.000	60.000	ug/ml
Aromatic C16-C21	8.417	12.676	13086535.000	80.000	ug/ml
Aromatic C21-C36	12.677	18.080	29567316.000	180.000	ug/ml
Aromatic EPH	4.093	18.080	61032073.000	360.000	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD110424AR\
Data File : FD048662.D
Signal(s) : FID2B.ch
Acq On : 05 Nov 2024 05:24
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 11/06/2024
Supervised By :Ankita Jodhani 11/06/2024

Integration File: autoint1.e
Quant Time: Nov 05 05:56:54 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...	7.369	3185259	20.986 ug/ml
Spiked Amount	50.000		Recovery =	41.97%
6) S	2-Flurobiphenyl (SURR)	8.219	2060797	20.987 ug/ml
Spiked Amount	50.000 Range	0 - 131	Recovery =	41.97%
11) S	ortho-Terphenyl (SURR)	11.252	3586393	21.054 ug/ml
Spiked Amount	50.000		Recovery =	42.11%
	Target Compounds			
1) T	1,2,3-Trimethylbenzen...	4.192	3619561	20.805 ug/ml
2) T	Naphthalene (C11.7)	5.710	3737234	20.945 ug/ml
3) T	2-Methylnaphthalene (...	6.756	3726998	20.837 ug/ml
5) T	Acenaphthylene (C15.06)	8.021	3598722	20.495 ug/ml
7) T	Acenaphthene (C15.5)	8.315	3695707	20.837 ug/ml
8) T	Flouorene (C16.55)	9.094	3561551	21.070 ug/ml
9) T	Phenanthrene (C19.36)	10.480	3467954	20.979 ug/ml
10) T	Anthracene (C19.43)	10.555	2631373	16.455 ug/ml
12) T	Fluoranthene (C21.85)	12.283	3491474	21.215 ug/ml
13) T	Pyrene (C20.8)	12.576	3425657	21.267 ug/ml
14) T	Benzo[a]anthracene (C...	14.445	3097456	21.184 ug/ml
15) T	Chrysene (C27.41)	14.487	3302156	20.075 ug/ml
16) T	benzo[b]fluoranthene ...	15.991	3328034	21.891 ug/ml
17) T	Bnezo[k]fluoranthene ...	16.023	3307591	22.006 ug/ml
18) T	Benzo[a]pyrene (C31.34)	16.368	3180892	21.136 ug/ml
19) T	Indeno[1,2,3-cd]pyren...	17.732	2868106	21.982 ug/ml
20) T	Dibenz[a,h]anthracene...	17.771	3791804	23.300 ug/mlm
21) T	Benzo[g,h,i]perylene ...	17.981	3199803	20.901 ug/ml

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

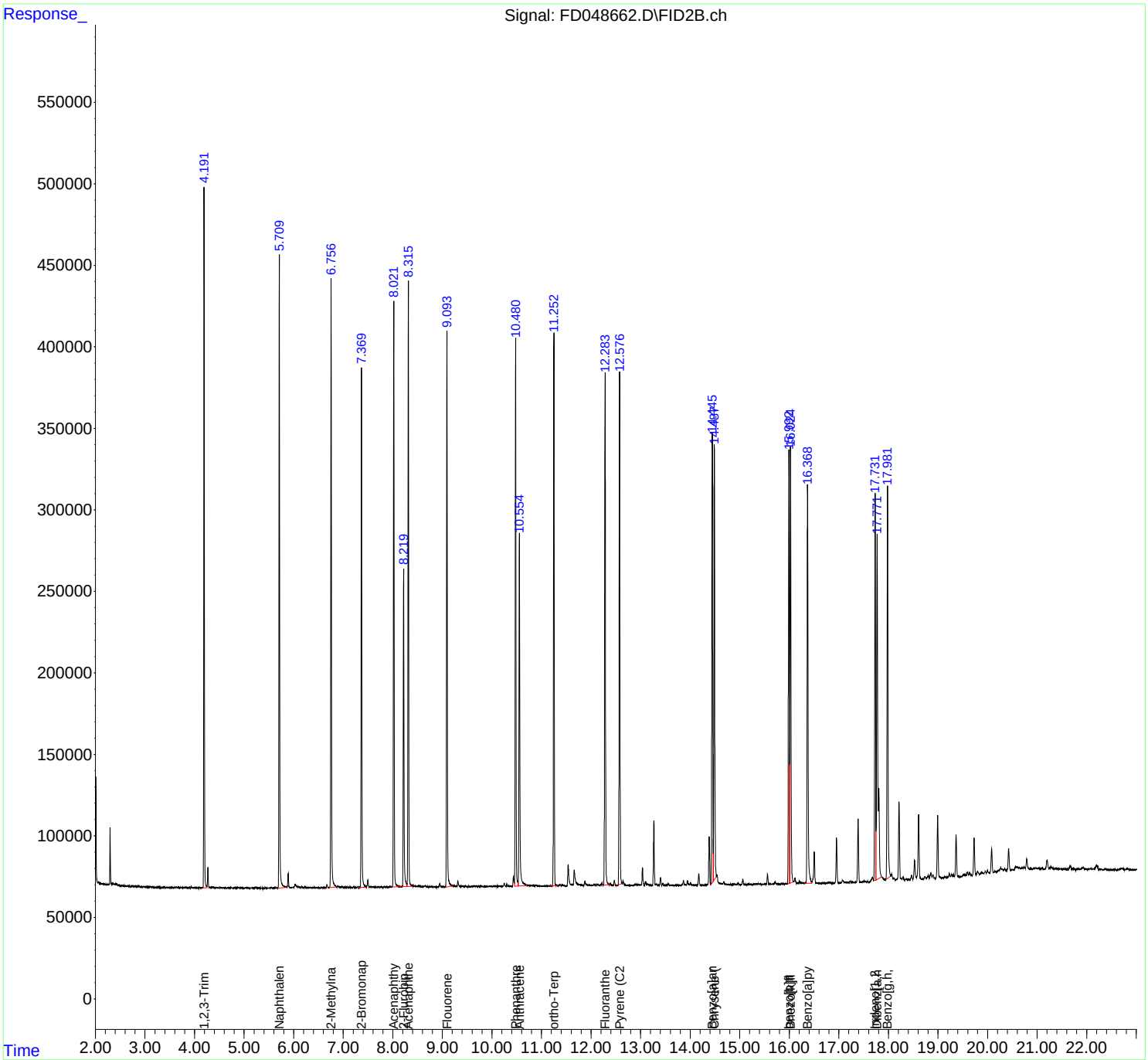
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD110424AR\
Data File : FD048662.D
Signal(s) : FID2B.ch
Acq On : 05 Nov 2024 05:24
Operator : YP/AJ
Sample : 20 PPM AROMATIC HC STD
Misc :
ALS Vial : 52 Sample Multiplier: 1

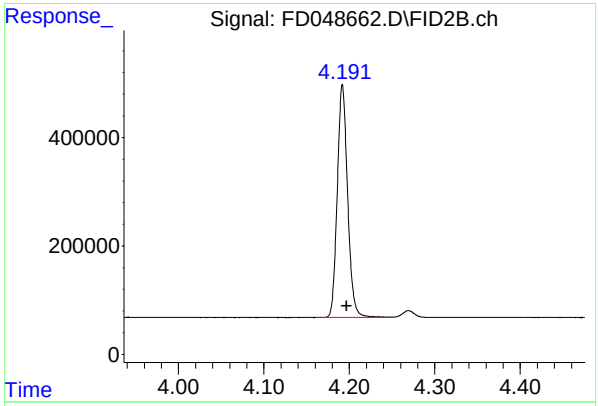
Integration File: autoint1.e
Quant Time: Nov 05 05:56:54 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 18:14:59 2024
Response via : Initial Calibration
Integrator: ChemStation

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

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 11/06/2024
Supervised By :Ankita Jodhani 11/06/2024





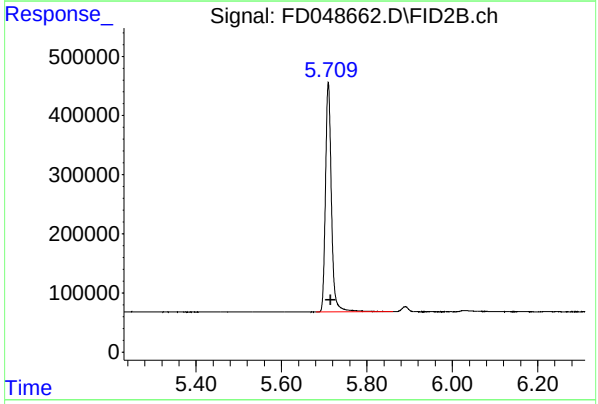
#1 1,2,3-Trimethylbenzene (C10.1)

R.T.: 4.192 min
Delta R.T.: -0.005 min
Response: 3619561
Conc: 20.81 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD

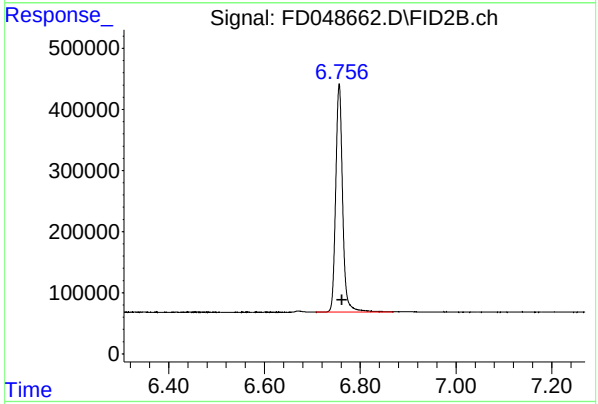
Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/06/2024
Supervised By :Ankita Jodhani 11/06/2024



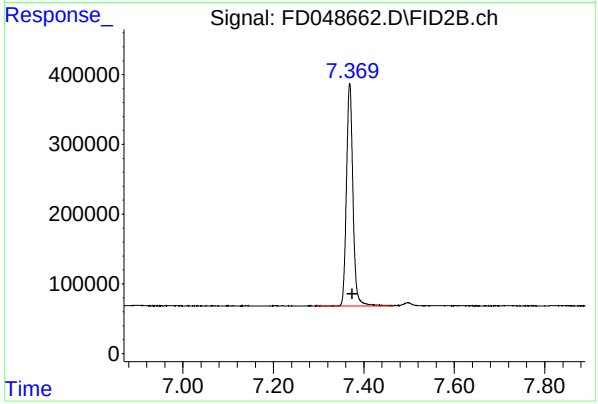
#2 Naphthalene (C11.7)

R.T.: 5.710 min
Delta R.T.: -0.006 min
Response: 3737234
Conc: 20.94 ug/ml



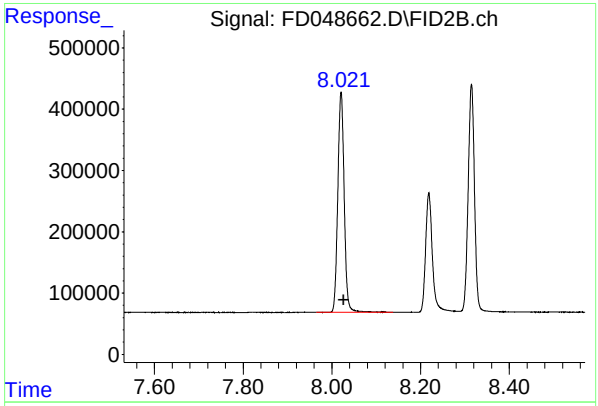
#3 2-Methylnaphthalene (C12.89)

R.T.: 6.756 min
Delta R.T.: -0.006 min
Response: 3726998
Conc: 20.84 ug/ml



#4 2-Bromonaphthalene (SURR)

R.T.: 7.369 min
Delta R.T.: -0.006 min
Response: 3185259
Conc: 20.99 ug/ml



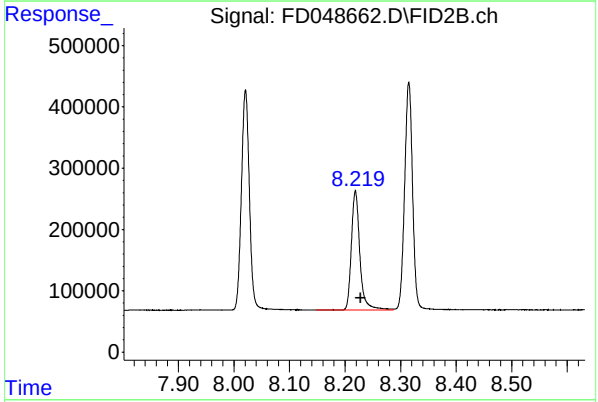
#5 Acenaphthylene (C15.06)

R.T.: 8.021 min
Delta R.T.: -0.005 min
Response: 3598722
Conc: 20.49 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD

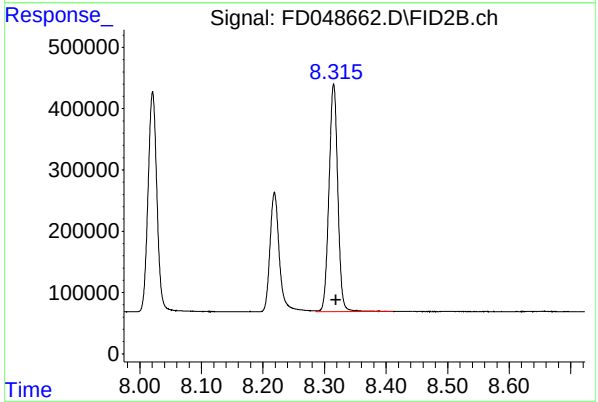
Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/06/2024
Supervised By :Ankita Jodhani 11/06/2024



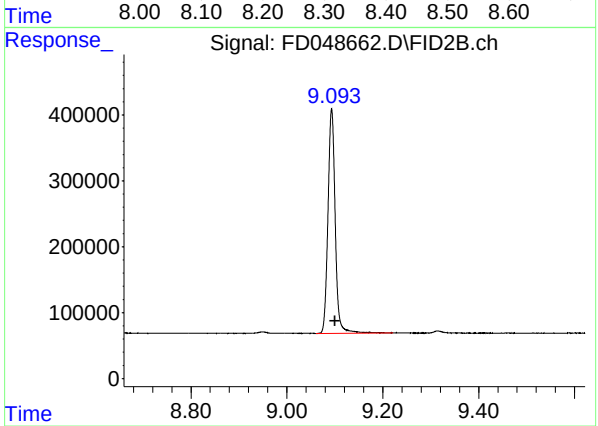
#6 2-Flurobiphenyl (SURR)

R.T.: 8.219 min
Delta R.T.: -0.009 min
Response: 2060797
Conc: 20.99 ug/ml



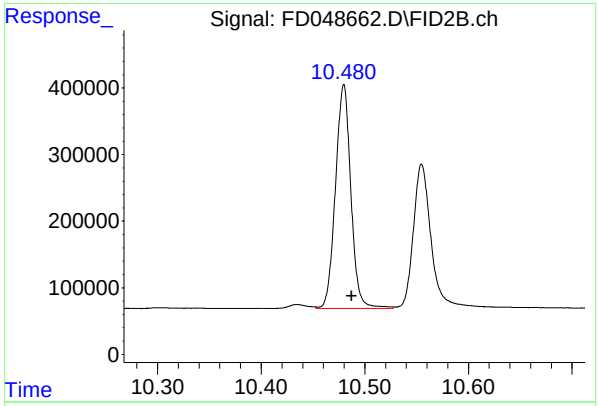
#7 Acenaphthene (C15.5)

R.T.: 8.315 min
Delta R.T.: -0.004 min
Response: 3695707
Conc: 20.84 ug/ml



#8 Flouorene (C16.55)

R.T.: 9.094 min
Delta R.T.: -0.007 min
Response: 3561551
Conc: 21.07 ug/ml



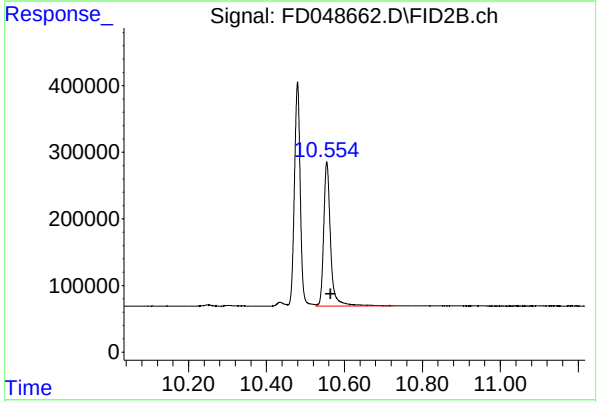
#9 Phenanthrene (C19.36)

R.T.: 10.480 min
Delta R.T.: -0.008 min
Response: 3467954
Conc: 20.98 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD

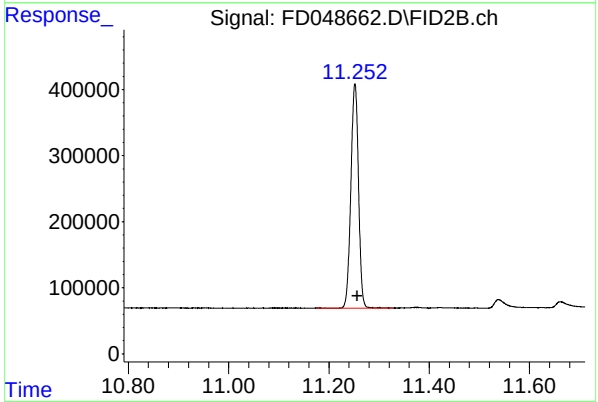
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/06/2024
Supervised By :Ankita Jodhani 11/06/2024



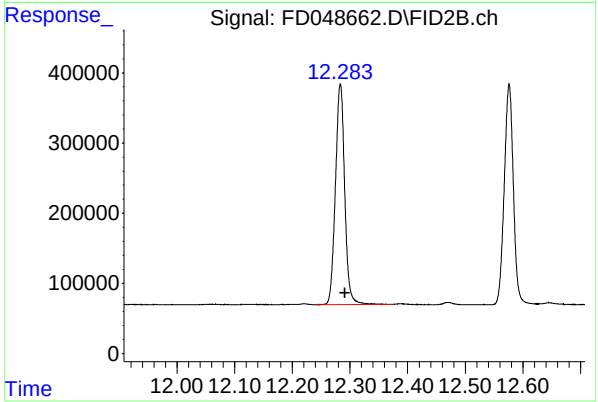
#10 Anthracene (C19.43)

R.T.: 10.555 min
Delta R.T.: -0.010 min
Response: 2631373
Conc: 16.46 ug/ml



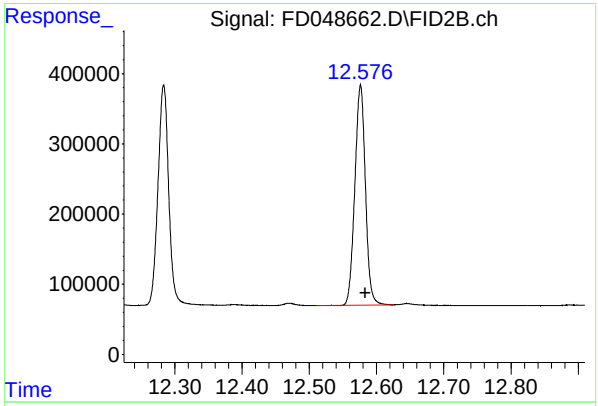
#11 ortho-Terphenyl (SURR)

R.T.: 11.252 min
Delta R.T.: -0.005 min
Response: 3586393
Conc: 21.05 ug/ml



#12 Fluoranthene (C21.85)

R.T.: 12.283 min
Delta R.T.: -0.008 min
Response: 3491474
Conc: 21.21 ug/ml



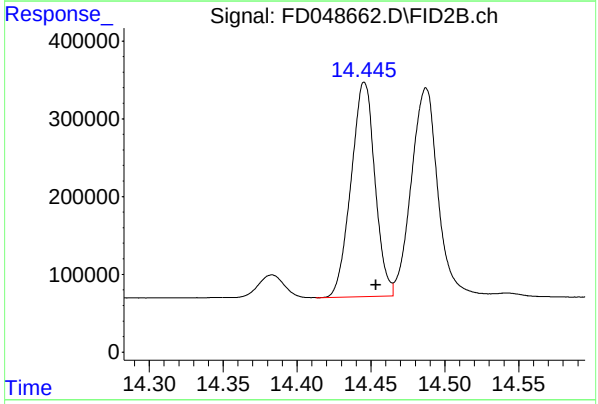
#13 Pyrene (C20.8)

R.T.: 12.576 min
Delta R.T.: -0.007 min
Response: 3425657
Conc: 21.27 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD

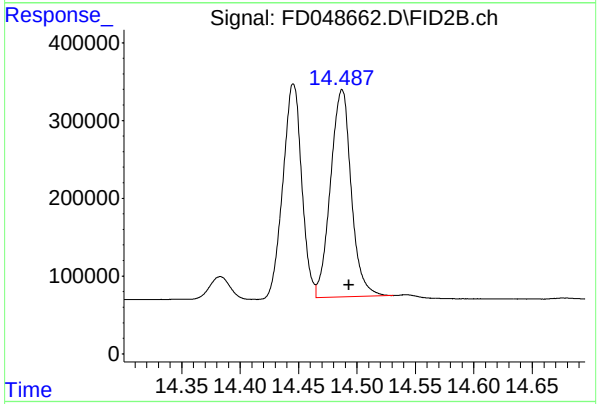
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/06/2024
Supervised By :Ankita Jodhani 11/06/2024



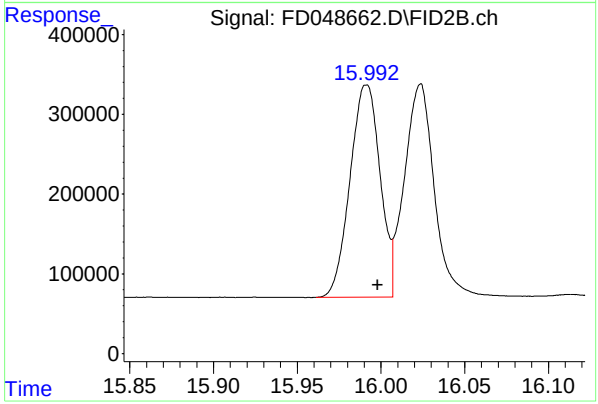
#14 Benzo[a]anthracene (C26.37)

R.T.: 14.445 min
Delta R.T.: -0.008 min
Response: 3097456
Conc: 21.18 ug/ml



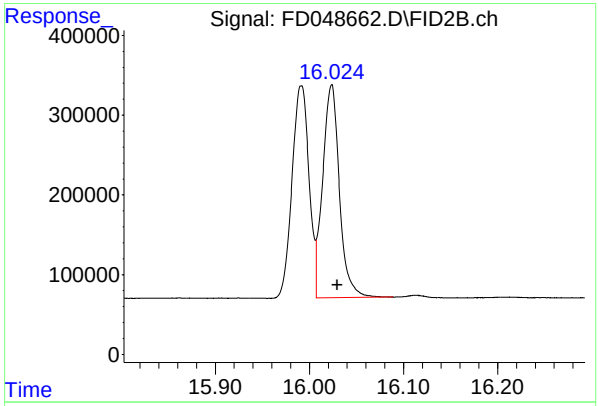
#15 Chrysene (C27.41)

R.T.: 14.487 min
Delta R.T.: -0.006 min
Response: 3302156
Conc: 20.07 ug/ml



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

R.T.: 15.991 min
Delta R.T.: -0.007 min
Response: 3328034
Conc: 21.89 ug/ml



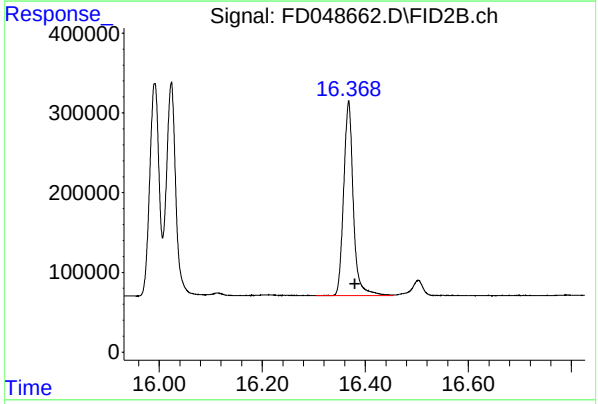
#17 Bnezo[k]fluoranthene (C30.14)

R.T.: 16.023 min
Delta R.T.: -0.006 mi
Response: 3307591
Conc: 22.01 ug/m

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD

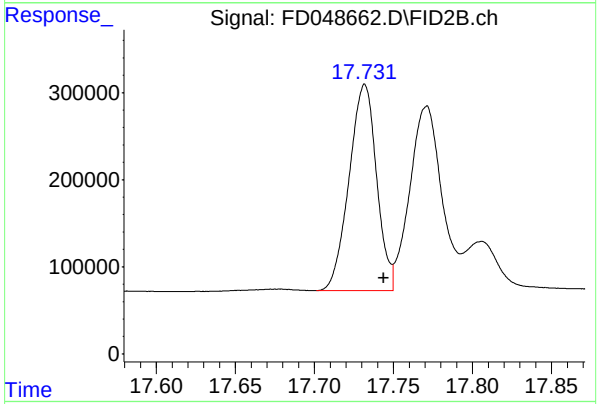
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/06/2024
Supervised By :Ankita Jodhani 11/06/2024



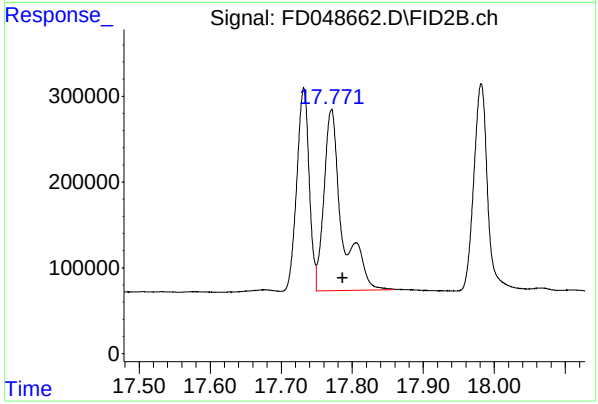
#18 Benzo[a]pyrene (C31.34)

R.T.: 16.368 min
Delta R.T.: -0.013 min
Response: 3180892
Conc: 21.14 ug/ml



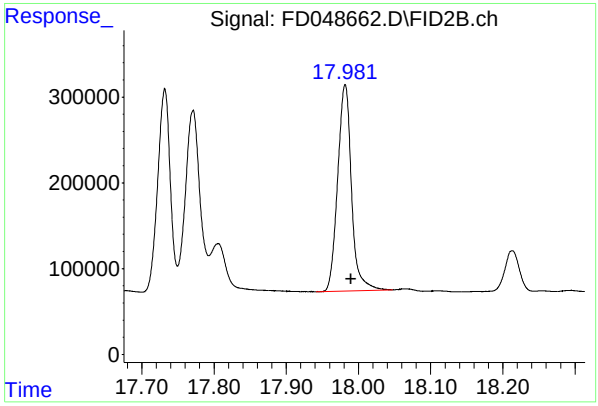
#19 Indeno[1,2,3-cd]pyrene (C35.01)

R.T.: 17.732 min
Delta R.T.: -0.012 min
Response: 2868106
Conc: 21.98 ug/ml



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

R.T.: 17.771 min
Delta R.T.: -0.015 min
Response: 3791804
Conc: 23.30 ug/ml m



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

R.T.: 17.981 min
Delta R.T.: -0.008 mi
Response: 3199803
Conc: 20.90 ug/m

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/06/2024
Supervised By :Ankita Jodhani 11/06/2024

Instrument :
FID_D
LabSampleId :
20 PPM AROMATIC HC STD

rteres

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/06/2024
Supervised By :Ankita Jodhani 11/06/2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD11042
Data File : FD048662.D
Signal(s) : FID2B.ch
Acq On : 05 Nov 2024 05:24
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	4.192	4.161	4.251	BV	426524	3619561	96.85%	5.240%
2	5.710	5.681	5.861	BB	385311	3737234	100.00%	5.410%
3	6.756	6.708	6.868	BV	373085	3726998	99.73%	5.395%
4	7.369	7.294	7.464	BV	317866	3185259	85.23%	4.611%
5	8.021	7.964	8.138	BB	359022	3598722	96.29%	5.210%
6	8.219	8.148	8.286	BV	193330	2060797	55.14%	2.983%
7	8.315	8.286	8.411	VB	371761	3695707	98.89%	5.350%
8	9.094	9.061	9.221	PB	340035	3561551	95.30%	5.156%
9	10.480	10.453	10.527	VV	338048	3467954	92.79%	5.020%
10	10.555	10.527	10.724	VB	216381	2631373	70.41%	3.809%
11	11.252	11.174	11.328	BB	339254	3586393	95.96%	5.192%
12	12.283	12.241	12.374	PV	315190	3491474	93.42%	5.054%
13	12.576	12.510	12.624	PV	314243	3425657	91.66%	4.959%
14	14.445	14.413	14.465	PV	276807	3097456	82.88%	4.484%
15	14.487	14.465	14.531	VV	268740	3302156	88.36%	4.780%
16	15.991	15.961	16.007	BV	267282	3328034	89.05%	4.818%
17	16.023	16.007	16.089	VV	269040	3307591	88.50%	4.788%
18	16.368	16.304	16.454	BV	243631	3180892	85.11%	4.605%
19	17.732	17.701	17.750	BV	236314	2868106	76.74%	4.152%
20	17.771	17.750	17.794	VV	212104	3004368	80.39%	4.349%
21	17.981	17.941	18.048	PV	240903	3199803	85.62%	4.632%
			Sum of corrected areas:			69077086		

Aromatic EPH 102324.M Tue Nov 05 05:58:28 2024

Evaluate Continuing Calibration Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD110424AR\
Data File : FD048662.D
Signal(s) : FID2B.ch
Acq On : 05 Nov 2024 05:24
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: Nov 05 05:56:54 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

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	180.978	E3	-4.0	104	0.00
2	T	Naphthalene (C11.7)	178.434	186.862	E3	-4.7	104	0.00
3	T	2-Methylnaphthalene (C12.89	178.865	186.350	E3	-4.2	104	0.00
4	S	2-Bromonaphthalene (SURR)	151.779	159.263	E3	-4.9	105	0.00
5	T	Acenaphthylene (C15.06)	175.592	179.936	E3	-2.5	102	0.00
6	S	2-Flurobiphenyl (SURR)	98.192	103.040	E3	-4.9	103	0.00
7	T	Acenaphthene (C15.5)	177.363	184.785	E3	-4.2	104	0.00
8	T	Flouorene (C16.55)	169.037	178.078	E3	-5.3	105	0.00
9	T	Phenanthrene (C19.36)	165.306	173.398	E3	-4.9	104	0.00
10	T	Anthracene (C19.43)	159.910	131.569	E3	17.7	82	0.00
11	S	ortho-Terphenyl (SURR)	170.340	179.320	E3	-5.3	106	0.00
12	T	Fluoranthene (C21.85)	164.577	174.574	E3	-6.1	106	0.00
13	T	Pyrene (C20.8)	161.077	171.283	E3	-6.3	106	0.00
14	T	Benzo[a]anthracene (C26.37)	146.215	154.873	E3	-5.9	104	0.00
15	T	Chrysene (C27.41)	164.492	165.108	E3	-0.4	102	0.00
16	T	benzo[b]fluoranthene (C30.4	152.029	166.402	E3	-9.5	108	0.00
17	T	Bnezo[k]fluoranthene (C30.1	150.304	165.380	E3	-10.0	109	0.00
18	T	Benzo[a]pyrene (C31.34)	150.496	159.045	E3	-5.7	105	-0.01
19	T	Indeno[1,2,3-cd]pyrene (C35	130.478	143.405	E3	-9.9	109	-0.01
20	T	Dibenz[a,h]anthracene (C30.	162.735	189.590	E3	-16.5	116	-0.02
21	T	Benzo[g,h,i]perylene (C34.0	153.092	159.990	E3	-4.5	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 : FD110424AR

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
File ID :	**FD048665.D**						
Aromatic C10-C12	7508987.000	40.000	4.093	5.811	187724.675	176202.694	-6.539
Aromatic C12-C16	11220129.000	60.000	5.812	8.416	187002.150	177273.493	-5.488
Aromatic C16-C21	13232211.000	80.000	8.417	12.676	165402.638	163832.550	-0.958
Aromatic C21-C36	29153546.000	180.000	12.677	18.080	161964.144	152713.153	-6.058
Aromatic EPH	61114873.000	360.000	4.093	18.080	169763.536	161887.469	-4.865

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:	05 Nov 2024 10:18
Client Sample ID:		Operator:	YP/AJ
Data file:	FD048665.D	Misc:	
Instrument:	FID_D	ALS Vial:	52
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aromatic C10-C12	4.093	5.811	7508987.000	40.000	ug/ml
Aromatic C12-C16	5.812	8.416	11220129.000	60.000	ug/ml
Aromatic C16-C21	8.417	12.676	13232211.000	80.000	ug/ml
Aromatic C21-C36	12.677	18.080	29153546.000	180.000	ug/ml
Aromatic EPH	4.093	18.080	61114873.000	360.000	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD110424AR\
Data File : FD048665.D
Signal(s) : FID2B.ch
Acq On : 05 Nov 2024 10:18
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: Nov 06 01:26:47 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	3246036	21.387	ug/ml
Spiked Amount	50.000		Recovery =	42.77%	
6)	S 2-Flurobiphenyl (SURR)	8.218	2116171	21.551	ug/ml
Spiked Amount	50.000 Range	0 - 131	Recovery =	43.10%	
11)	S ortho-Terphenyl (SURR)	11.253	3644960	21.398	ug/ml
Spiked Amount	50.000		Recovery =	42.80%	
	Target Compounds				
1)	T 1,2,3-Trimethylbenzen...	4.192	3688584	21.202	ug/ml
2)	T Naphthalene (C11.7)	5.710	3820403	21.411	ug/ml
3)	T 2-Methylnaphthalene (...	6.756	3788357	21.180	ug/ml
5)	T Acenaphthylene (C15.06)	8.021	3667101	20.884	ug/ml
7)	T Acenaphthene (C15.5)	8.315	3764671	21.226	ug/ml
8)	T Flouorene (C16.55)	9.094	3611652	21.366	ug/ml
9)	T Phenanthrene (C19.36)	10.480	3513133	21.252	ug/ml
10)	T Anthracene (C19.43)	10.555	2625898	16.421	ug/ml
12)	T Fluoranthene (C21.85)	12.284	3539617	21.507	ug/ml
13)	T Pyrene (C20.8)	12.576	3481528	21.614	ug/ml
14)	T Benzo[a]anthracene (C...	14.445	3142976	21.496	ug/ml
15)	T Chrysene (C27.41)	14.486	3353443	20.387	ug/ml
16)	T benzo[b]fluoranthene ...	15.991	3366725	22.145	ug/ml
17)	T Bnezo[k]fluoranthene ...	16.022	3352184	22.303	ug/ml
18)	T Benzo[a]pyrene (C31.34)	16.366	3223544	21.420	ug/ml
19)	T Indeno[1,2,3-cd]pyren...	17.731	2899021	22.218	ug/ml
20)	T Dibenz[a,h]anthracene...	17.771	3030770	18.624	ug/ml
21)	T Benzo[g,h,i]perylene ...	17.982	3245266	21.198	ug/ml

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

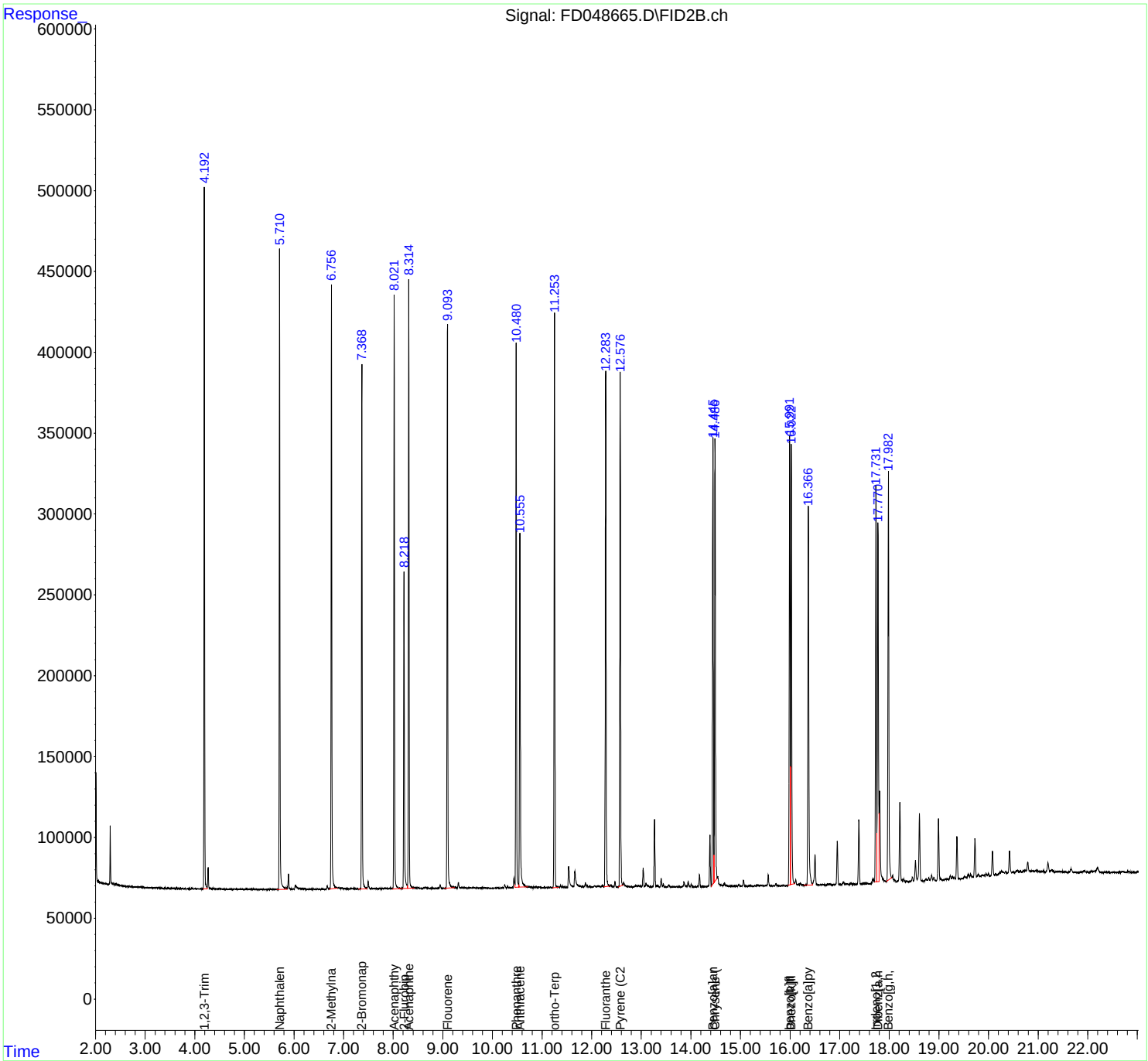
Quantitation Report (QT Reviewed)

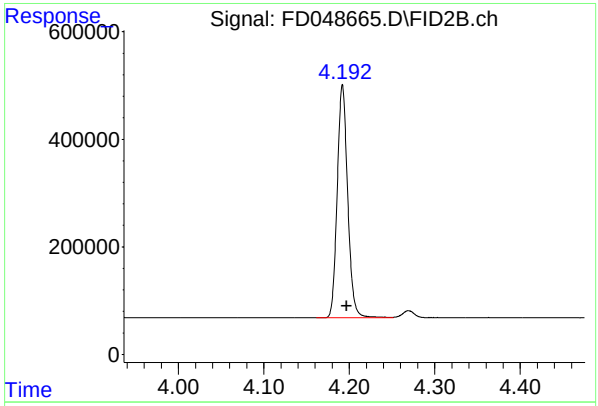
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD110424AR\
Data File : FD048665.D
Signal(s) : FID2B.ch
Acq On : 05 Nov 2024 10:18
Operator : YP/AJ
Sample : 20 PPM AROMATIC HC STD
Misc :
ALS Vial : 52 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD

Integration File: autoint1.e
Quant Time: Nov 06 01:26:47 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

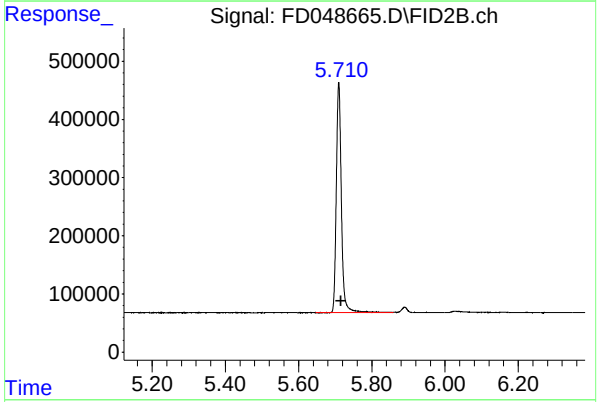




#1 1,2,3-Trimethylbenzene (C10.1)

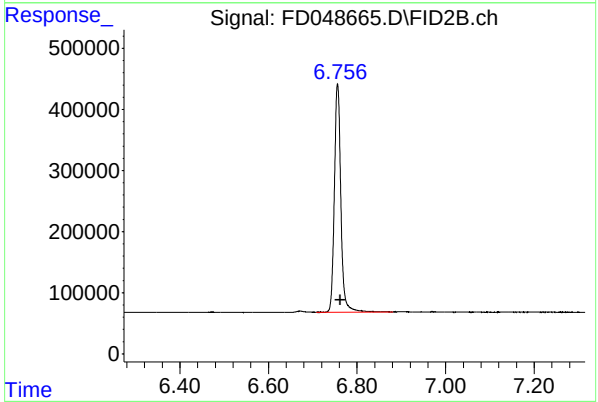
R.T.: 4.192 min
Delta R.T.: -0.005 min
Response: 3688584
Conc: 21.20 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD



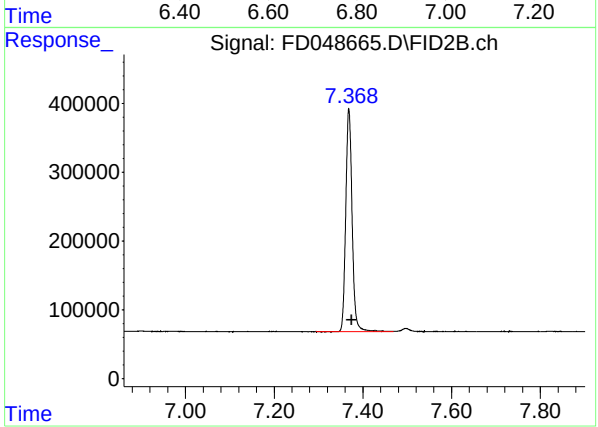
#2 Naphthalene (C11.7)

R.T.: 5.710 min
Delta R.T.: -0.006 min
Response: 3820403
Conc: 21.41 ug/ml



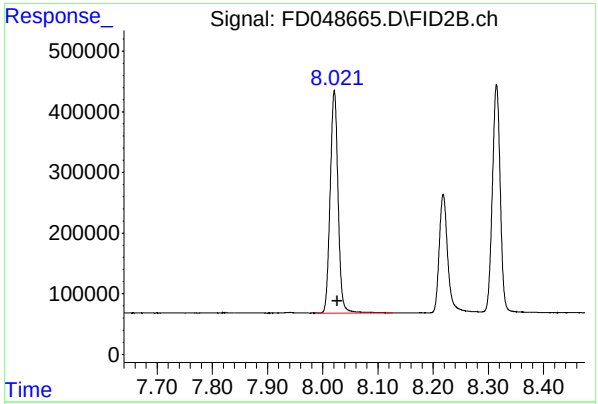
#3 2-Methylnaphthalene (C12.89)

R.T.: 6.756 min
Delta R.T.: -0.006 min
Response: 3788357
Conc: 21.18 ug/ml



#4 2-Bromonaphthalene (SURR)

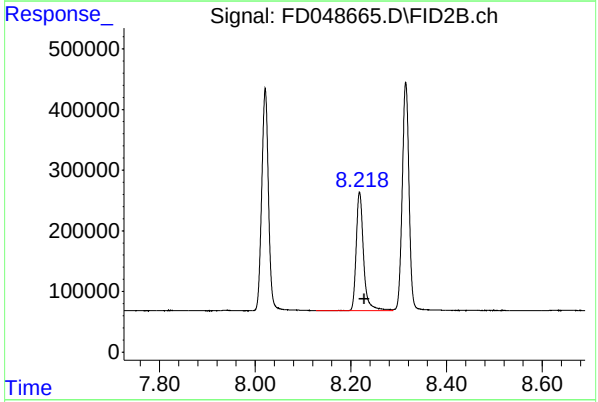
R.T.: 7.369 min
Delta R.T.: -0.006 min
Response: 3246036
Conc: 21.39 ug/ml



#5 Acenaphthylene (C15.06)

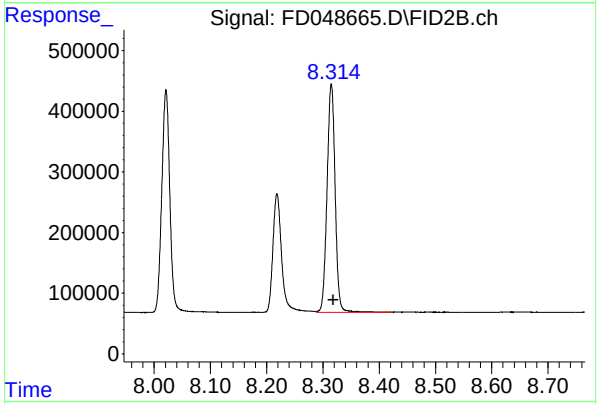
R.T.: 8.021 min
Delta R.T.: -0.005 min
Response: 3667101
Conc: 20.88 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD



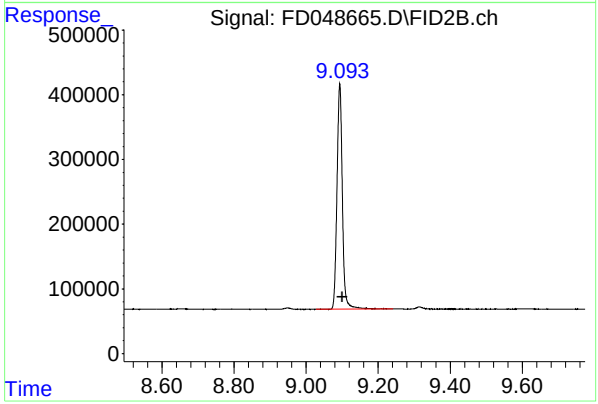
#6 2-Flurobiphenyl (SURR)

R.T.: 8.218 min
Delta R.T.: -0.010 min
Response: 2116171
Conc: 21.55 ug/ml



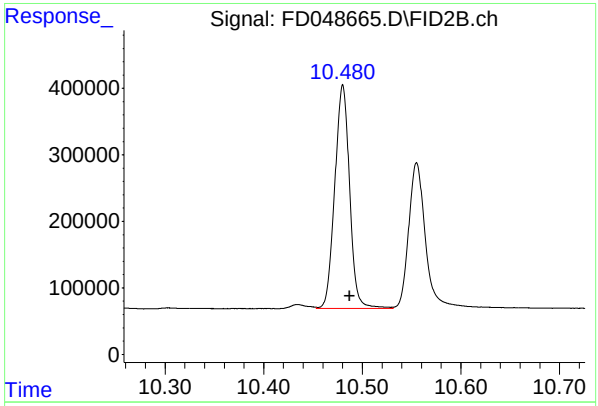
#7 Acenaphthene (C15.5)

R.T.: 8.315 min
Delta R.T.: -0.004 min
Response: 3764671
Conc: 21.23 ug/ml



#8 Flouorene (C16.55)

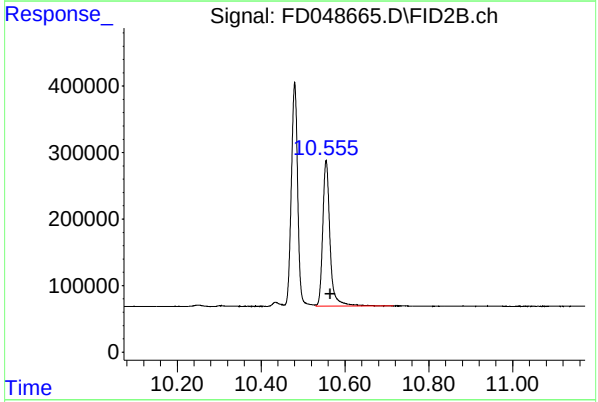
R.T.: 9.094 min
Delta R.T.: -0.007 min
Response: 3611652
Conc: 21.37 ug/ml



#9 Phenanthrene (C19.36)

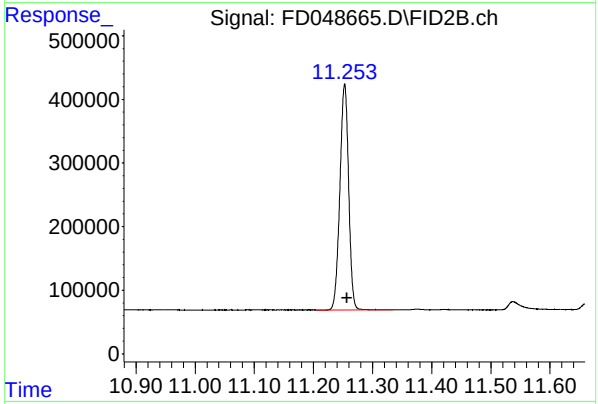
R.T.: 10.480 min
Delta R.T.: -0.007 min
Response: 3513133
Conc: 21.25 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD



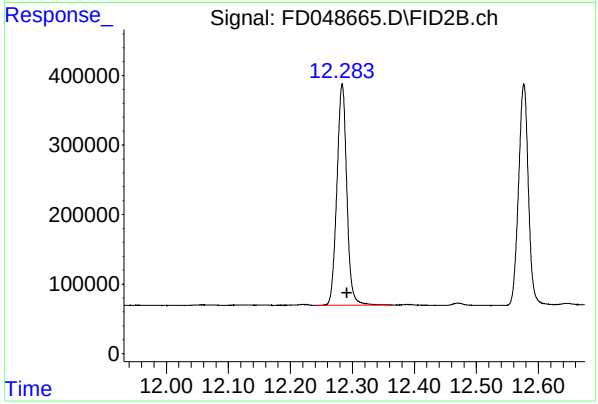
#10 Anthracene (C19.43)

R.T.: 10.555 min
Delta R.T.: -0.009 min
Response: 2625898
Conc: 16.42 ug/ml



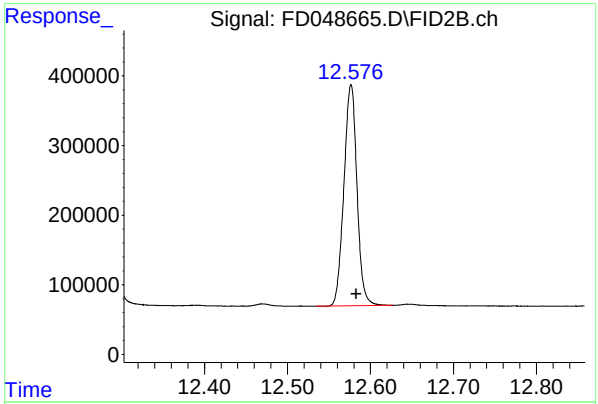
#11 ortho-Terphenyl (SURR)

R.T.: 11.253 min
Delta R.T.: -0.004 min
Response: 3644960
Conc: 21.40 ug/ml



#12 Fluoranthene (C21.85)

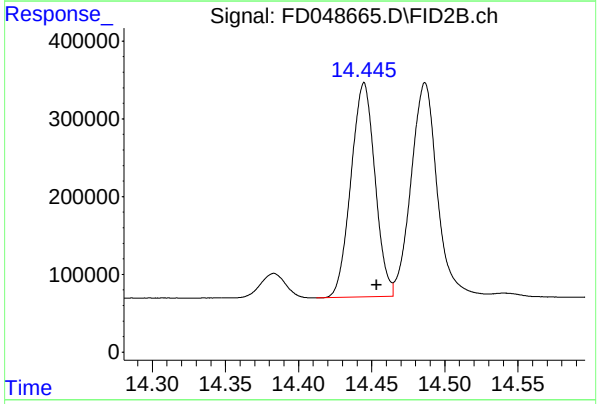
R.T.: 12.284 min
Delta R.T.: -0.008 min
Response: 3539617
Conc: 21.51 ug/ml



#13 Pyrene (C20.8)

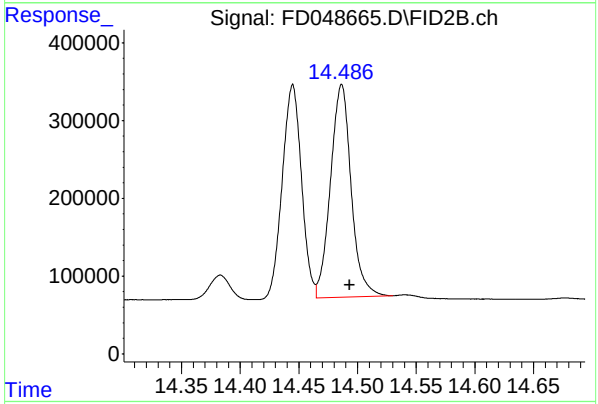
R.T.: 12.576 min
Delta R.T.: -0.007 min
Response: 3481528
Conc: 21.61 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD



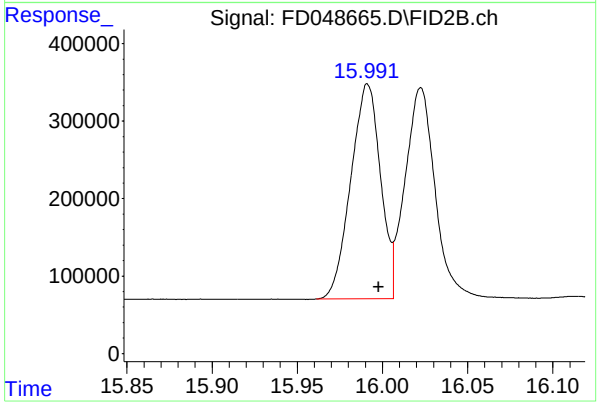
#14 Benzo[a]anthracene (C26.37)

R.T.: 14.445 min
Delta R.T.: -0.009 min
Response: 3142976
Conc: 21.50 ug/ml



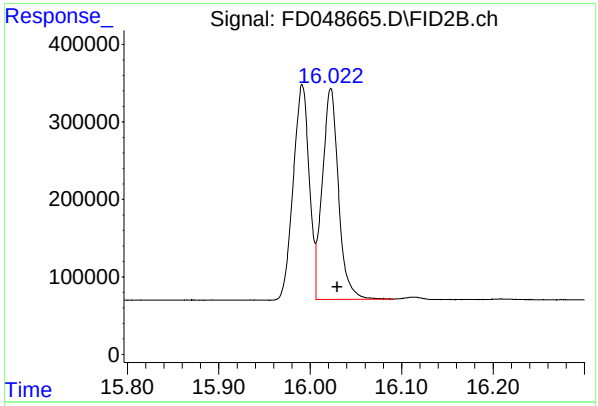
#15 Chrysene (C27.41)

R.T.: 14.486 min
Delta R.T.: -0.007 min
Response: 3353443
Conc: 20.39 ug/ml



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

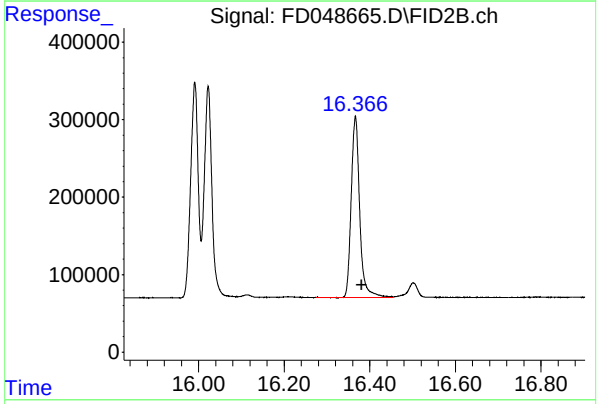
R.T.: 15.991 min
Delta R.T.: -0.007 min
Response: 3366725
Conc: 22.15 ug/ml



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

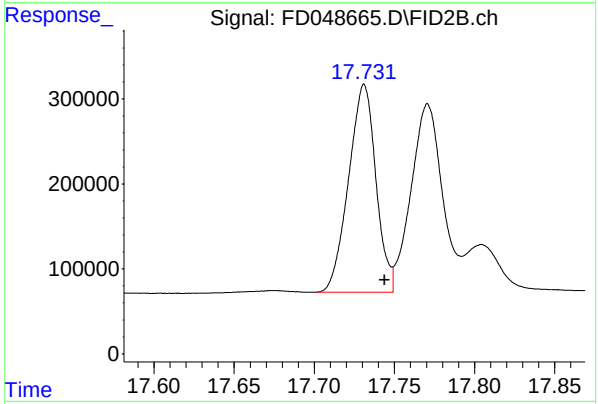
R.T.: 16.022 min
Delta R.T.: -0.007 min
Response: 3352184
Conc: 22.30 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD



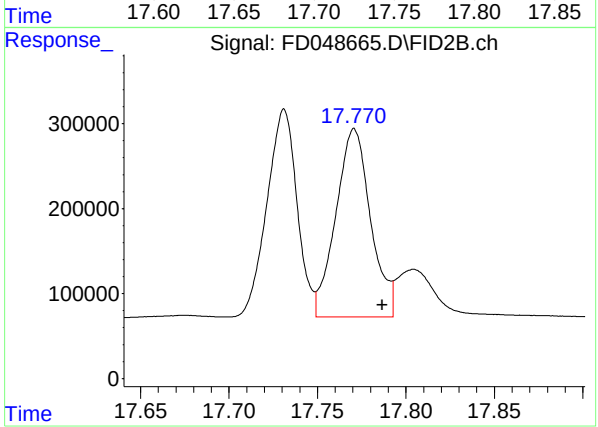
#18 Benzo[a]pyrene (C31.34)

R.T.: 16.366 min
Delta R.T.: -0.014 min
Response: 3223544
Conc: 21.42 ug/ml



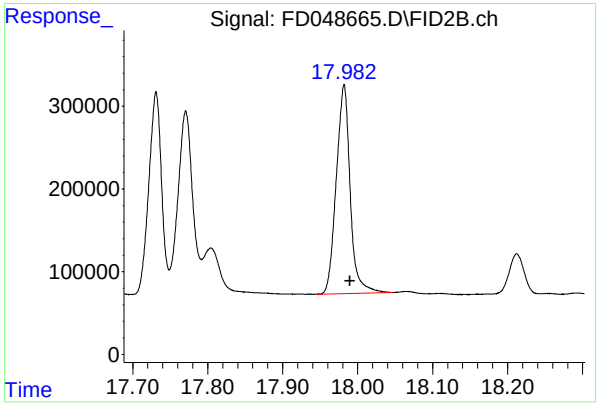
#19 Indeno[1,2,3-cd]pyrene (C35.01)

R.T.: 17.731 min
Delta R.T.: -0.013 min
Response: 2899021
Conc: 22.22 ug/ml



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

R.T.: 17.771 min
Delta R.T.: -0.016 min
Response: 3030770
Conc: 18.62 ug/ml



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

R.T.: 17.982 min
Delta R.T.: -0.008 mi
Response: 3245266
Conc: 21.20 ug/m

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD110424AR\
Data File : FD048665.D
Signal(s) : FID2B.ch
Acq On : 05 Nov 2024 10:18
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	4.192	4.161	4.251	BV	429954	3688584	96.55%	5.260%
2	5.710	5.648	5.858	BV	393726	3820403	100.00%	5.448%
3	6.756	6.708	6.881	PV	374767	3788357	99.16%	5.403%
4	7.369	7.295	7.468	BV	323912	3246036	84.97%	4.629%
5	8.021	7.988	8.127	BV	366999	3667101	95.99%	5.230%
6	8.218	8.127	8.288	VV	195442	2116171	55.39%	3.018%
7	8.315	8.288	8.425	VB	376472	3764671	98.54%	5.369%
8	9.094	9.028	9.241	BB	348909	3611652	94.54%	5.151%
9	10.480	10.453	10.531	VV	336009	3513133	91.96%	5.010%
10	10.555	10.531	10.715	VB	218760	2625898	68.73%	3.745%
11	11.253	11.205	11.335	BB	352120	3644960	95.41%	5.198%
12	12.284	12.241	12.365	PV	319227	3539617	92.65%	5.048%
13	12.577	12.535	12.627	BV	320399	3481528	91.13%	4.965%
14	14.445	14.412	14.465	PV	274781	3142976	82.27%	4.482%
15	14.486	14.465	14.530	VV	275209	3353443	87.78%	4.782%
16	15.991	15.961	16.006	BV	278197	3366725	88.12%	4.801%
17	16.022	16.006	16.090	VV	272232	3352184	87.74%	4.781%
18	16.366	16.275	16.454	BV	234390	3223544	84.38%	4.597%
19	17.731	17.701	17.749	BV	245151	2899021	75.88%	4.134%
20	17.771	17.749	17.793	VV	221461	3030770	79.33%	4.322%
21	17.982	17.945	18.047	PV	251797	3245266	84.95%	4.628%
			Sum of corrected areas:			70122039		

Aromatic EPH 102324.M Wed Nov 06 01:40:36 2024

Evaluate Continuing Calibration Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD110424AR\
Data File : FD048665.D
Signal(s) : FID2B.ch
Acq On : 05 Nov 2024 10:18
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: Nov 06 01:26:47 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	184.429	E3	-6.0	106	0.00
2	T	Naphthalene (C11.7)	178.434	191.020	E3	-7.1	106	0.00
3	T	2-Methylnaphthalene (C12.89	178.865	189.418	E3	-5.9	105	0.00
4	S	2-Bromonaphthalene (SURR)	151.779	162.302	E3	-6.9	107	0.00
5	T	Acenaphthylene (C15.06)	175.592	183.355	E3	-4.4	104	0.00
6	S	2-Flurobiphenyl (SURR)	98.192	105.809	E3	-7.8	106	0.00
7	T	Acenaphthene (C15.5)	177.363	188.234	E3	-6.1	106	0.00
8	T	Flouorene (C16.55)	169.037	180.583	E3	-6.8	106	0.00
9	T	Phenanthrene (C19.36)	165.306	175.657	E3	-6.3	106	0.00
10	T	Anthracene (C19.43)	159.910	131.295	E3	17.9	82	0.00
11	S	ortho-Terphenyl (SURR)	170.340	182.248	E3	-7.0	107	0.00
12	T	Fluoranthene (C21.85)	164.577	176.981	E3	-7.5	108	0.00
13	T	Pyrene (C20.8)	161.077	174.076	E3	-8.1	108	0.00
14	T	Benzo[a]anthracene (C26.37)	146.215	157.149	E3	-7.5	105	0.00
15	T	Chrysene (C27.41)	164.492	167.672	E3	-1.9	103	0.00
16	T	benzo[b]fluoranthene (C30.4	152.029	168.336	E3	-10.7	110	0.00
17	T	Bnezo[k]fluoranthene (C30.1	150.304	167.609	E3	-11.5	111	0.00
18	T	Benzo[a]pyrene (C31.34)	150.496	161.177	E3	-7.1	107	-0.01
19	T	Indeno[1,2,3-cd]pyrene (C35	130.478	144.951	E3	-11.1	110	-0.01
20	T	Dibenz[a,h]anthracene (C30.	162.735	151.539	E3	6.9	93	-0.02
21	T	Benzo[g,h,i]perylene (C34.0	153.092	162.263	E3	-6.0	105	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 : FF110424AR

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
File ID :	**FF014905.D**						
Aromatic C10-C12	6096219.000	40.000	4.508	6.372	152405.475	156086.454	2.358
Aromatic C12-C16	9133431.000	60.000	6.373	9.064	152223.850	159619.601	4.633
Aromatic C16-C21	11072149.000	80.000	9.065	13.375	138401.863	155386.216	10.930
Aromatic C21-C36	23375895.000	180.000	13.376	18.817	129866.083	148444.550	12.515
Aromatic EPH	49677694.000	360.000	4.508	18.817	137993.594	152698.751	9.630

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:	04 Nov 2024 10:42
Client Sample ID:		Operator:	YP\AJ
Data file:	FF014905.D	Misc:	
Instrument:	FID_F	ALS Vial:	52
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aromatic C10-C12	4.508	6.372	6096219.000	40.000	ug/ml
Aromatic C12-C16	6.373	9.064	9133431.000	60.000	ug/ml
Aromatic C16-C21	9.065	13.375	11072149.000	80.000	ug/ml
Aromatic C21-C36	13.376	18.817	23375895.000	180.000	ug/ml
Aromatic EPH	4.508	18.817	49677694.000	360.000	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF110424AR\
Data File : FF014905.D
Signal(s) : FID2B.ch
Acq On : 04 Nov 2024 10:42
Operator : YP\AJ
Sample : 20 PPM AROMATIC HC STD
Misc :
ALS Vial : 52 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
20 PPM AROMATIC HC STD

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 11/06/2024
Supervised By :Ankita Jodhani 11/06/2024

Integration File: autoint1.e
Quant Time: Nov 05 01:25:24 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 102124.M
Quant Title : GC Extractables
QLast Update : Tue Oct 22 04:14:53 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...	7.990	2641181	18.941	ug/ml
Spiked Amount	50.000		Recovery =	37.88%	
6)	S 2-Flurobiphenyl (SURR)	8.864	1777598	18.848	ug/ml
Spiked Amount	50.000 Range	0 - 131	Recovery =	37.70%	
11)	S ortho-Terphenyl (SURR)	11.926	3002210	18.766	ug/ml
Spiked Amount	50.000		Recovery =	37.53%	
	Target Compounds				
1)	T 1,2,3-Trimethylbenzen...	4.608	2990448	19.659	ug/ml
2)	T Naphthalene (C11.7)	6.272	3105771	19.404	ug/ml
3)	T 2-Methylnaphthalene (...	7.366	3105411	19.195	ug/ml
5)	T Acenaphthylene (C15.06)	8.665	3003074	18.957	ug/ml
7)	T Acenaphthene (C15.5)	8.964	3024946	19.065	ug/ml
8)	T Flouorene (C16.55)	9.752	2932253	18.585	ug/ml
9)	T Phenanthrene (C19.36)	11.158	2914025	18.511	ug/ml
10)	T Anthracene (C19.43)	11.232	2422007	16.101	ug/ml
12)	T Fluoranthene (C21.85)	12.977	2838329	18.011	ug/ml
13)	T Pyrene (C20.8)	13.275	2803864	17.983	ug/ml
14)	T Benzo[a]anthracene (C...	15.153	2560415	16.849	ug/ml
15)	T Chrysene (C27.41)	15.196	2635827	17.056	ug/ml
16)	T benzo[b]fluoranthene ...	16.710	2662053	17.412	ug/ml
17)	T Bnezo[k]fluoranthene ...	16.743	2549416	17.647	ug/mlm
18)	T Benzo[a]pyrene (C31.34)	17.090	2561148	17.158	ug/ml
19)	T Indeno[1,2,3-cd]pyren...	18.460	2418461	17.634	ug/ml
20)	T Dibenz[a,h]anthracene...	18.499	2475282	17.039	ug/mlm
21)	T Benzo[g,h,i]perylene ...	18.717	2674964	18.724	ug/ml

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

Quantitation Report (QT Reviewed)

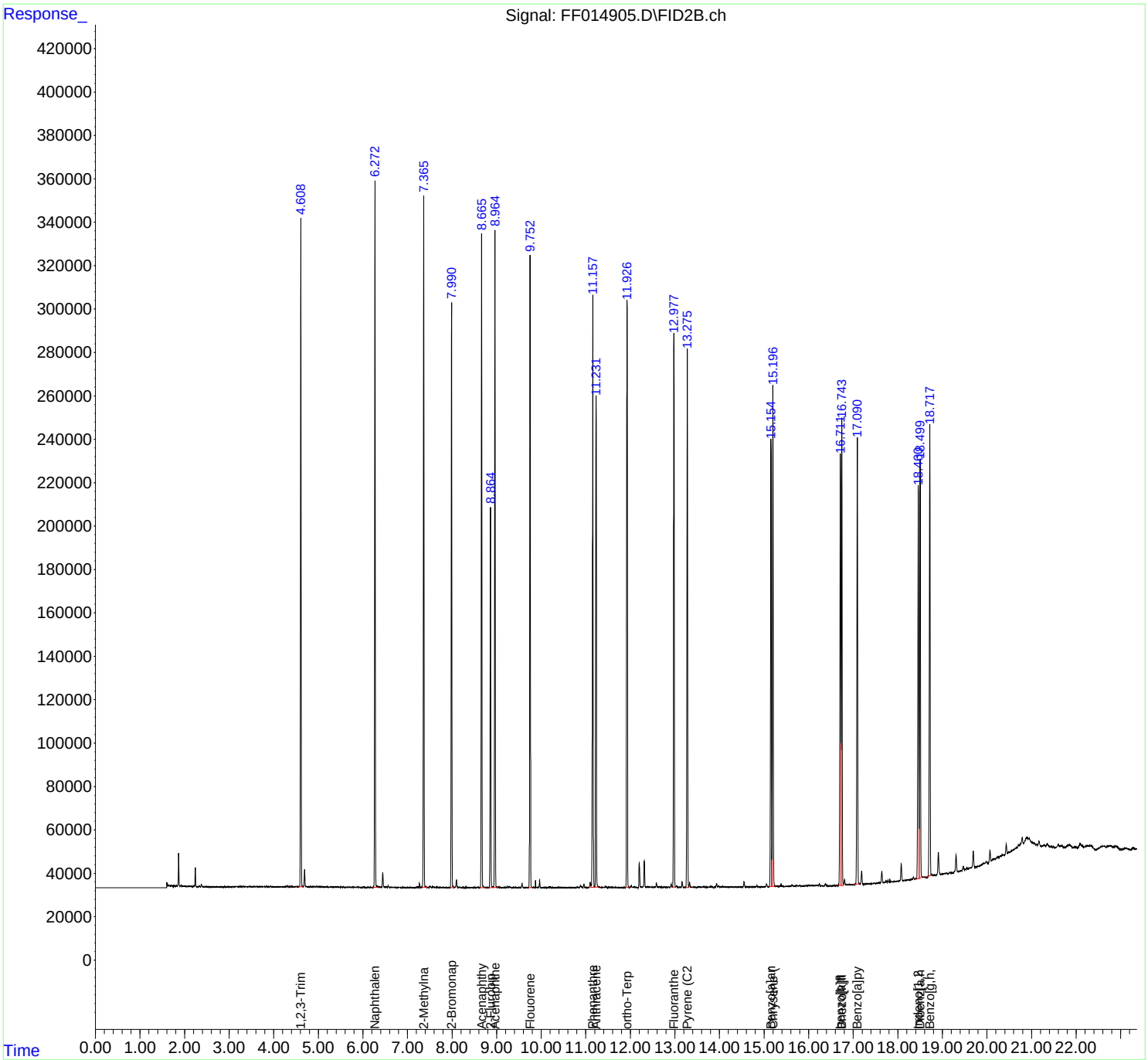
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF110424AR\
Data File : FF014905.D
Signal(s) : FID2B.ch
Acq On : 04 Nov 2024 10:42
Operator : YP\AJ
Sample : 20 PPM AROMATIC HC STD
Misc :
ALS Vial : 52 Sample Multiplier: 1

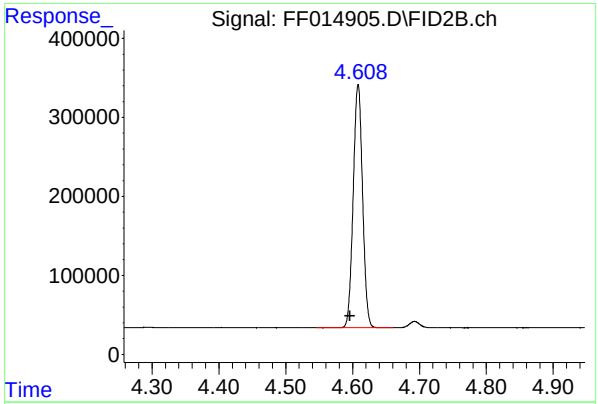
Integration File: autoint1.e
Quant Time: Nov 05 01:25:24 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 102124.M
Quant Title : GC Extractables
QLast Update : Tue Oct 22 04:14:53 2024
Response via : Initial Calibration
Integrator: ChemStation

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

Instrument :
FID_F
ClientSampleId :
20 PPM AROMATIC HC STD

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 11/06/2024
Supervised By :Ankita Jodhani 11/06/2024





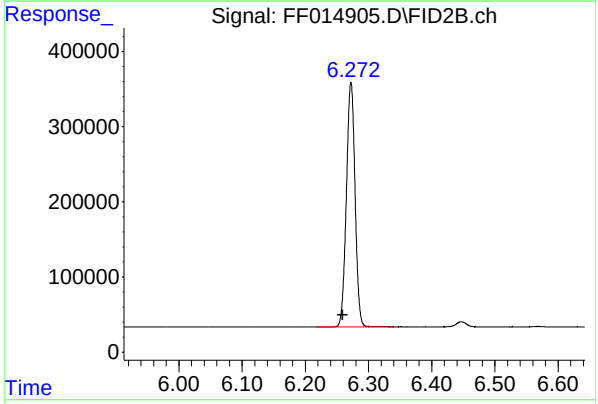
#1 1,2,3-Trimethylbenzene (C10.1)

R.T.: 4.608 min
Delta R.T.: 0.012 min
Response: 2990448
Conc: 19.66 ug/ml

Instrument :
FID_F
ClientSampleId :
20 PPM AROMATIC HC STD

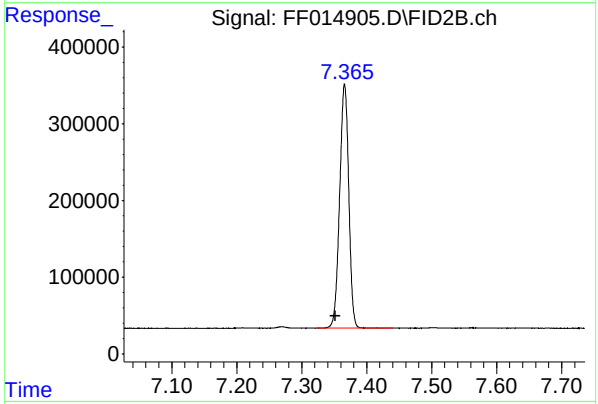
Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/06/2024
Supervised By :Ankita Jodhani 11/06/2024



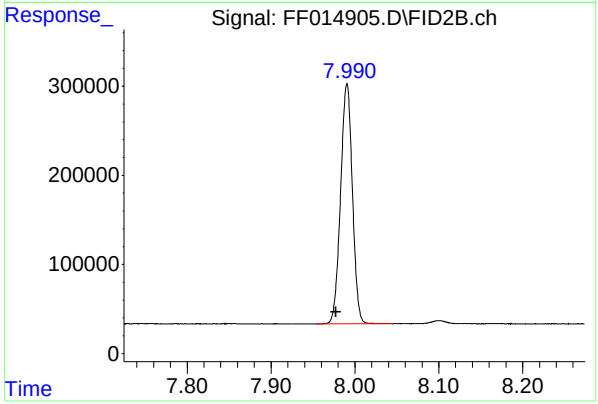
#2 Naphthalene (C11.7)

R.T.: 6.272 min
Delta R.T.: 0.013 min
Response: 3105771
Conc: 19.40 ug/ml



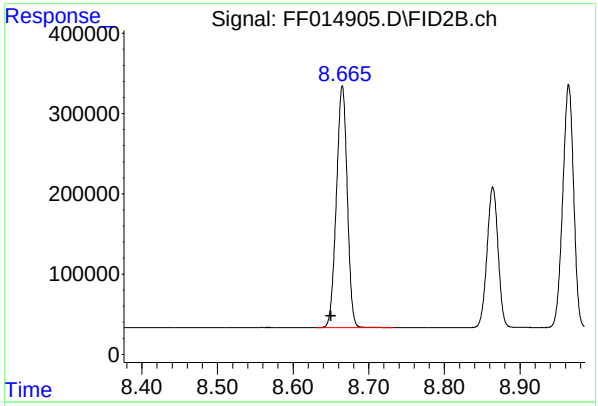
#3 2-Methylnaphthalene (C12.89)

R.T.: 7.366 min
Delta R.T.: 0.014 min
Response: 3105411
Conc: 19.20 ug/ml



#4 2-Bromonaphthalene (SURR)

R.T.: 7.990 min
Delta R.T.: 0.013 min
Response: 2641181
Conc: 18.94 ug/ml



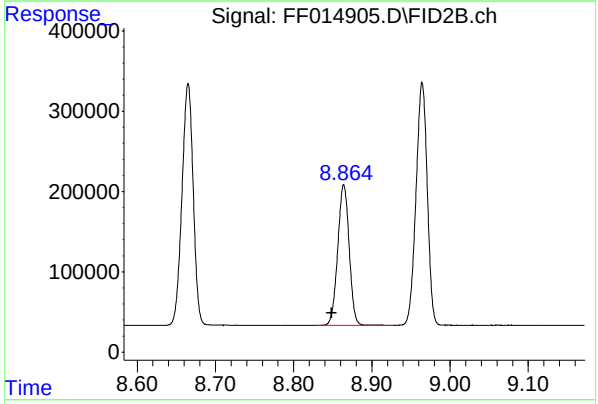
#5 Acenaphthylene (C15.06)

R.T.: 8.665 min
Delta R.T.: 0.015 min
Response: 3003074
Conc: 18.96 ug/ml

Instrument :
FID_F
ClientSampleId :
20 PPM AROMATIC HC STD

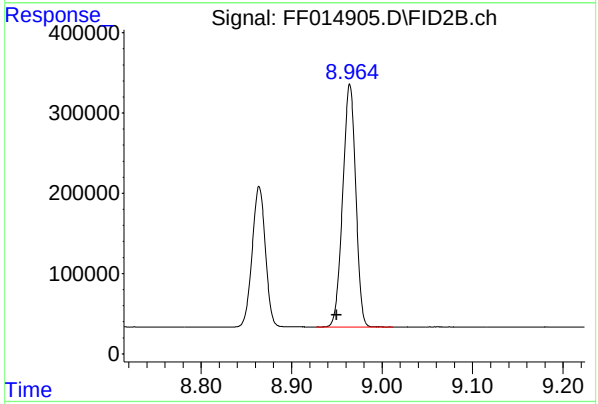
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/06/2024
Supervised By :Ankita Jodhani 11/06/2024



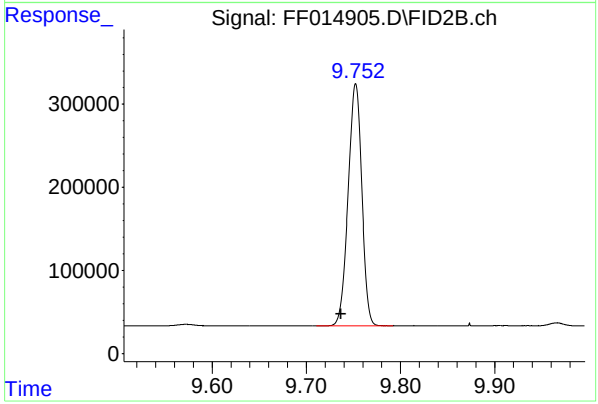
#6 2-Flurobiphenyl (SURR)

R.T.: 8.864 min
Delta R.T.: 0.015 min
Response: 1777598
Conc: 18.85 ug/ml



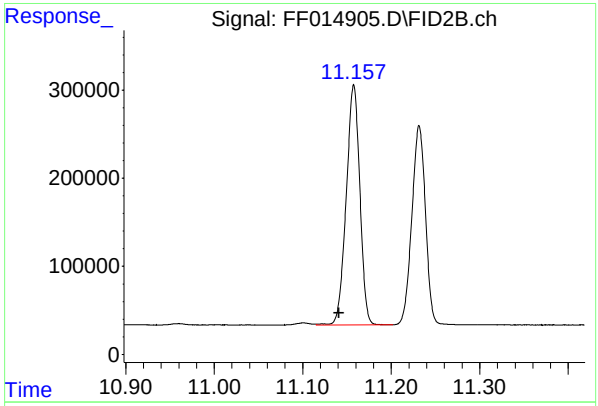
#7 Acenaphthene (C15.5)

R.T.: 8.964 min
Delta R.T.: 0.015 min
Response: 3024946
Conc: 19.06 ug/ml



#8 Flouorene (C16.55)

R.T.: 9.752 min
Delta R.T.: 0.015 min
Response: 2932253
Conc: 18.58 ug/ml



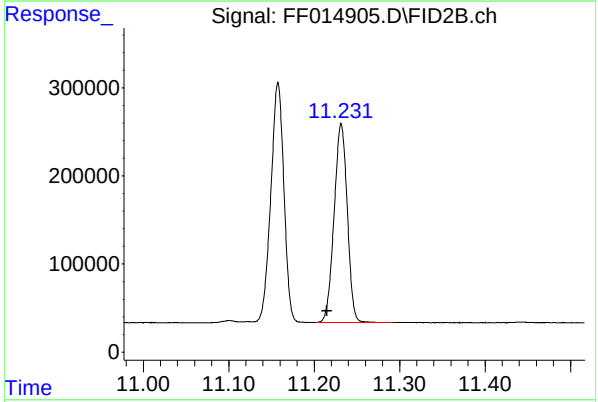
#9 Phenanthrene (C19.36)

R.T.: 11.158 min
Delta R.T.: 0.017 min
Response: 2914025
Conc: 18.51 ug/ml

Instrument :
FID_F
ClientSampleId :
20 PPM AROMATIC HC STD

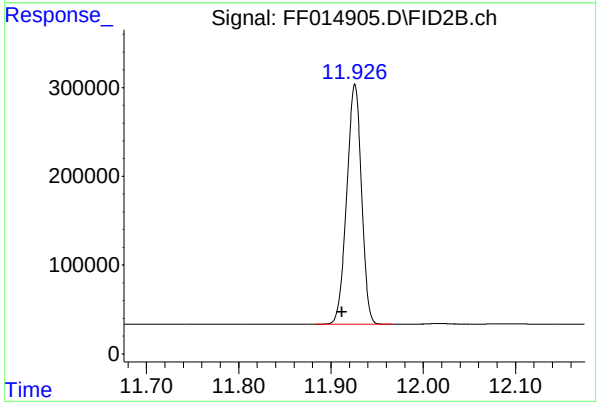
Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/06/2024
Supervised By :Ankita Jodhani 11/06/2024



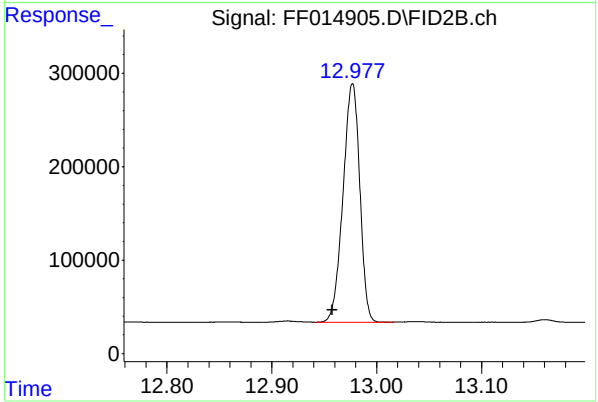
#10 Anthracene (C19.43)

R.T.: 11.232 min
Delta R.T.: 0.017 min
Response: 2422007
Conc: 16.10 ug/ml



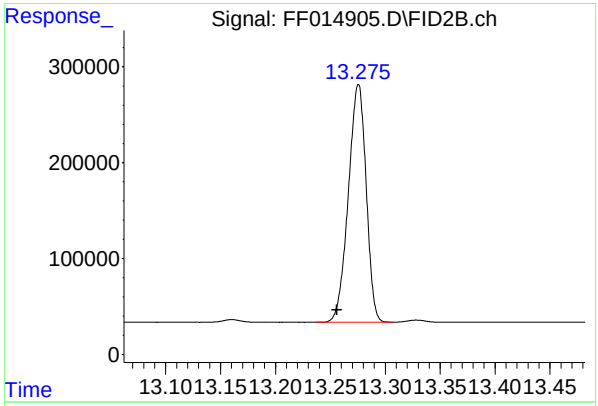
#11 ortho-Terphenyl (SURR)

R.T.: 11.926 min
Delta R.T.: 0.014 min
Response: 3002210
Conc: 18.77 ug/ml



#12 Fluoranthene (C21.85)

R.T.: 12.977 min
Delta R.T.: 0.019 min
Response: 2838329
Conc: 18.01 ug/ml



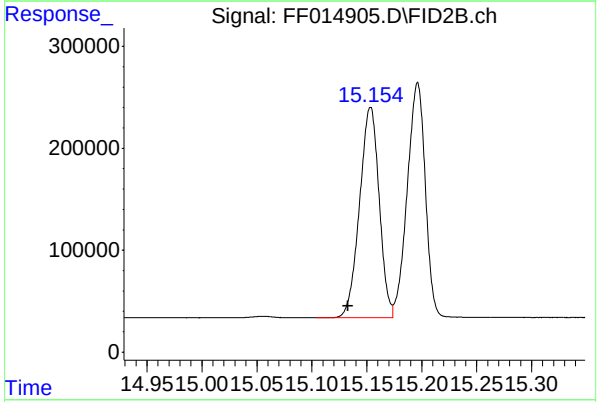
#13 Pyrene (C20.8)

R.T.: 13.275 min
Delta R.T.: 0.019 min
Response: 2803864
Conc: 17.98 ug/ml

Instrument :
FID_F
ClientSampleId :
20 PPM AROMATIC HC STD

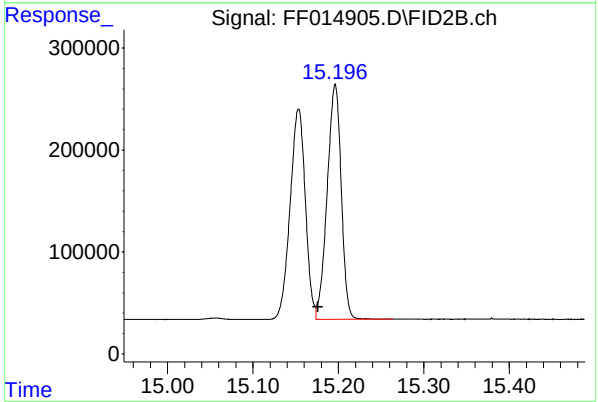
Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/06/2024
Supervised By :Ankita Jodhani 11/06/2024



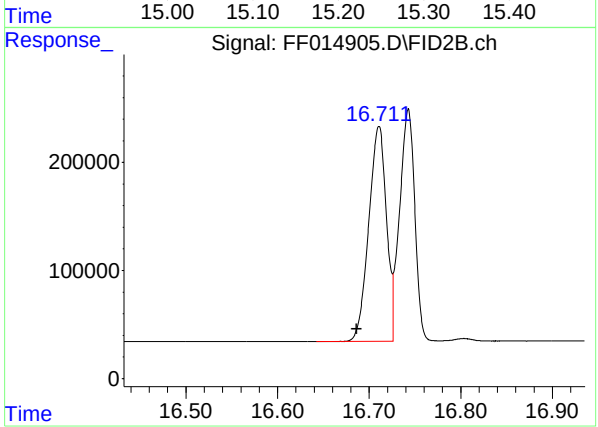
#14 Benzo[a]anthracene (C26.37)

R.T.: 15.153 min
Delta R.T.: 0.020 min
Response: 2560415
Conc: 16.85 ug/ml



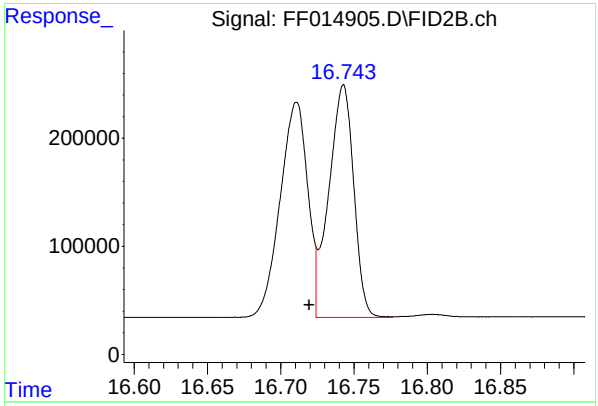
#15 Chrysene (C27.41)

R.T.: 15.196 min
Delta R.T.: 0.020 min
Response: 2635827
Conc: 17.06 ug/ml



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

R.T.: 16.710 min
Delta R.T.: 0.024 min
Response: 2662053
Conc: 17.41 ug/ml



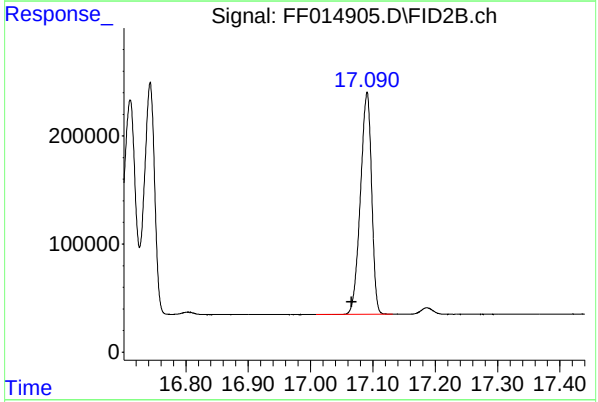
#17 Bnezo[k]fluoranthene (C30.14)

R.T.: 16.743 min
Delta R.T.: 0.023 min
Response: 2549416
Conc: 17.65 ug/ml

Instrument :
FID_F
ClientSampleId :
20 PPM AROMATIC HC STD

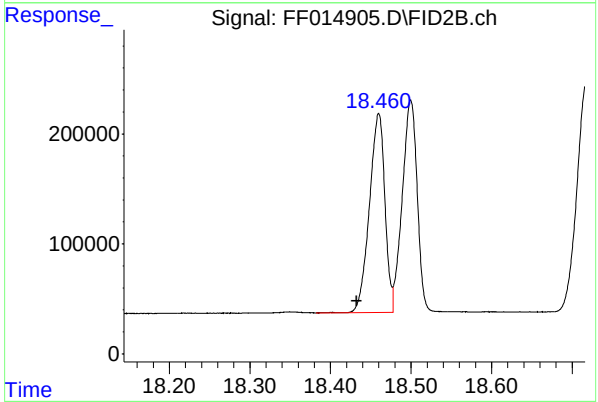
Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/06/2024
Supervised By :Ankita Jodhani 11/06/2024



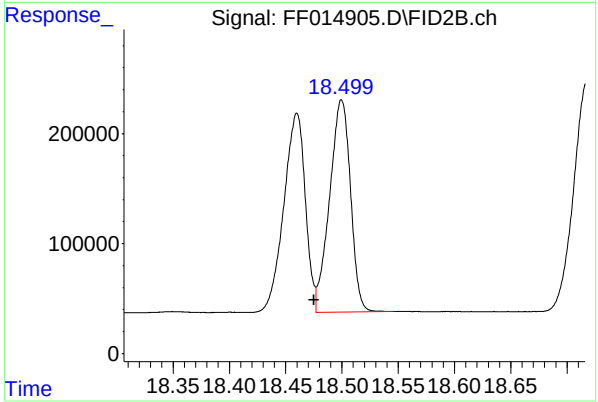
#18 Benzo[a]pyrene (C31.34)

R.T.: 17.090 min
Delta R.T.: 0.024 min
Response: 2561148
Conc: 17.16 ug/ml



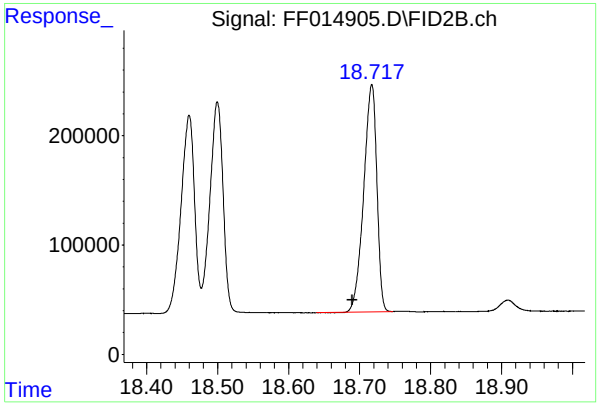
#19 Indeno[1,2,3-cd]pyrene (C35.01)

R.T.: 18.460 min
Delta R.T.: 0.027 min
Response: 2418461
Conc: 17.63 ug/ml



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

R.T.: 18.499 min
Delta R.T.: 0.024 min
Response: 2475282
Conc: 17.04 ug/ml m



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

R.T.: 18.717 min
Delta R.T.: 0.027 mi
Response: 2674964
Conc: 18.72 ug/m

Instrument :
FID_F
ClientSampleId :
20 PPM AROMATIC HC STD

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/06/2024
Supervised By :Ankita Jodhani 11/06/2024

Instrument :
FID_F
LabSampleId :
20 PPM AROMATIC HC STD

rteres

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/06/2024
Supervised By :Ankita Jodhani 11/06/2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF11042
Data File : FF014905.D
Signal(s) : FID2B.ch
Acq On : 04 Nov 2024 10:42
Sample : 20 PPM AROMATIC HC STD
Misc :
ALS Vial : 52 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 102124.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	4.608	4.545	4.660	BB	308823	2990448	96.29%	5.242%
2	6.272	6.217	6.339	BB	325759	3105771	100.00%	5.444%
3	7.366	7.322	7.440	BB	318721	3105411	99.99%	5.443%
4	7.990	7.954	8.045	BB	269659	2641181	85.04%	4.630%
5	8.665	8.630	8.732	BB	301824	3003074	96.69%	5.264%
6	8.864	8.829	8.927	BV	175267	1777598	57.24%	3.116%
7	8.964	8.927	9.012	VB	302861	3024946	97.40%	5.302%
8	9.752	9.710	9.792	BB	291636	2932253	94.41%	5.140%
9	11.158	11.115	11.202	VV	272209	2914025	93.83%	5.108%
10	11.232	11.202	11.292	VB	225824	2422007	77.98%	4.246%
11	11.926	11.884	11.967	BB	270260	3002210	96.67%	5.263%
12	12.977	12.942	13.015	VV	255615	2838329	91.39%	4.975%
13	13.275	13.237	13.307	BV	248595	2803864	90.28%	4.915%
14	15.153	15.104	15.174	BV	206765	2560415	82.44%	4.488%
15	15.196	15.174	15.264	VB	230120	2635827	84.87%	4.620%
16	16.710	16.642	16.726	BV	199267	2662053	85.71%	4.666%
17	16.743	16.726	16.777	VV	214917	2482049	79.92%	4.351%
18	17.090	17.009	17.132	BB	205781	2561148	82.46%	4.489%
19	18.460	18.382	18.478	PV	181448	2418461	77.87%	4.239%
20	18.500	18.478	18.572	VB	192916	2492532	80.25%	4.369%
21	18.717	18.639	18.747	BV	208271	2674964	86.13%	4.689%
			Sum of corrected areas:			57048565		

Aromatic EPH 102124.M Tue Nov 05 01:56:23 2024

Evaluate Continuing Calibration Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF110424AR\
Data File : FF014905.D
Signal(s) : FID2B.ch
Acq On : 04 Nov 2024 10:42
Operator : YP\AJ
Sample : 20 PPM AROMATIC HC STD
Misc :
ALS Vial : 52 Sample Multiplier: 1

Instrument :
FID_F
LabSampleId :
20 PPM AROMATIC HC STD

Integration File: autoint1.e
Quant Time: Nov 05 01:25:24 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 102124.M
Quant Title : GC Extractables
QLast Update : Tue Oct 22 04:14:53 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	152.113	149.522	E3	1.7	97	0.01
2	T	Naphthalene (C11.7)	160.060	155.289	E3	3.0	96	0.01
3	T	2-Methylnaphthalene (C12.89	161.779	155.271	E3	4.0	94	0.01
4	S	2-Bromonaphthalene (SURR)	139.445	132.059	E3	5.3	94	0.01
5	T	Acenaphthylene (C15.06)	158.414	150.154	E3	5.2	93	0.01
6	S	2-Flurobiphenyl (SURR)	94.310	88.880	E3	5.8	93	0.02
7	T	Acenaphthene (C15.5)	158.666	151.247	E3	4.7	94	0.01
8	T	Flouorene (C16.55)	157.776	146.613	E3	7.1	92	0.02
9	T	Phenanthrene (C19.36)	157.423	145.701	E3	7.4	91	0.02
10	T	Anthracene (C19.43)	150.424	121.100	E3	19.5	79	0.02
11	S	ortho-Terphenyl (SURR)	159.977	150.110	E3	6.2	93	0.01
12	T	Fluoranthene (C21.85)	157.593	141.916	E3	9.9	89	0.02
13	T	Pyrene (C20.8)	155.921	140.193	E3	10.1	89	0.02
14	T	Benzo[a]anthracene (C26.37)	151.961	128.021	E3	15.8	83	0.02
15	T	Chrysene (C27.41)	154.542	131.791	E3	14.7	84	0.02
16	T	benzo[b]fluoranthene (C30.4	152.885	133.103	E3	12.9	86	0.02
17	T	Bnezo[k]fluoranthene (C30.1	144.464	127.471	E3	11.8	87	0.02
18	T	Benzo[a]pyrene (C31.34)	149.266	128.057	E3	14.2	85	0.02
19	T	Indeno[1,2,3-cd]pyrene (C35	137.151	120.923	E3	11.8	88	0.03
20	T	Dibenz[a,h]anthracene (C30.	145.275	123.764	E3	14.8	84	0.02
21	T	Benzo[g,h,i]perylene (C34.0	142.864	133.748	E3	6.4	92	0.03

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 : FF110424AR

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
File ID :	**FF014924.D**						
Aromatic C10-C12	6384117.000	40.000	4.508	6.372	159602.925	156086.454	-2.253
Aromatic C12-C16	9499667.000	60.000	6.373	9.064	158327.783	159619.601	0.809
Aromatic C16-C21	11432143.000	80.000	9.065	13.375	142901.788	155386.216	8.034
Aromatic C21-C36	24558734.000	180.000	13.376	18.817	136437.411	148444.550	8.089
Aromatic EPH	51874661.000	360.000	4.508	18.817	144096.281	152698.751	5.634

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:	04 Nov 2024 20:11
Client Sample ID:		Operator:	YP\AJ
Data file:	FF014924.D	Misc:	
Instrument:	FID_F	ALS Vial:	52
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aromatic C10-C12	4.508	6.372	6384117.000	40.000	ug/ml
Aromatic C12-C16	6.373	9.064	9499667.000	60.000	ug/ml
Aromatic C16-C21	9.065	13.375	11432143.000	80.000	ug/ml
Aromatic C21-C36	13.376	18.817	24558734.000	180.000	ug/ml
Aromatic EPH	4.508	18.817	51874661.000	360.000	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF110424AR\
Data File : FF014924.D
Signal(s) : FID2B.ch
Acq On : 04 Nov 2024 20:11
Operator : YP\AJ
Sample : 20 PPM AROMATIC HC STD
Misc :
ALS Vial : 52 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
20 PPM AROMATIC HC STD

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/06/2024
Supervised By :Ankita Jodhani 11/06/2024

Integration File: autoint1.e
Quant Time: Nov 05 01:28:16 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 102124.M
Quant Title : GC Extractables
QLast Update : Tue Oct 22 04:14:53 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...	7.990	2752270	19.737 ug/ml
Spiked Amount	50.000		Recovery =	39.47%
6) S	2-Flurobiphenyl (SURR)	8.863	1844065	19.553 ug/ml
Spiked Amount	50.000 Range	0 - 131	Recovery =	39.11%
11) S	ortho-Terphenyl (SURR)	11.925	3093839	19.339 ug/ml
Spiked Amount	50.000		Recovery =	38.68%
	Target Compounds			
1) T	1,2,3-Trimethylbenzen...	4.608	3149361	20.704 ug/ml
2) T	Naphthalene (C11.7)	6.272	3234756	20.210 ug/ml
3) T	2-Methylnaphthalene (...	7.365	3246935	20.070 ug/ml
5) T	Acenaphthylene (C15.06)	8.665	3114237	19.659 ug/ml
7) T	Acenaphthene (C15.5)	8.963	3138495	19.781 ug/ml
8) T	Flouorene (C16.55)	9.751	3053015	19.350 ug/ml
9) T	Phenanthrene (C19.36)	11.156	3005882	19.094 ug/ml
10) T	Anthracene (C19.43)	11.230	2494044	16.580 ug/ml
12) T	Fluoranthene (C21.85)	12.975	2913410	18.487 ug/ml
13) T	Pyrene (C20.8)	13.274	2879202	18.466 ug/ml
14) T	Benzo[a]anthracene (C...	15.152	2697025	17.748 ug/ml
15) T	Chrysene (C27.41)	15.195	2765607	17.895 ug/ml
16) T	benzo[b]fluoranthene ...	16.708	2777655	18.168 ug/ml
17) T	Bnezo[k]fluoranthene ...	16.741	2641493	18.285 ug/mlm
18) T	Benzo[a]pyrene (C31.34)	17.088	2708539	18.146 ug/ml
19) T	Indeno[1,2,3-cd]pyren...	18.456	2561100	18.674 ug/ml
20) T	Dibenz[a,h]anthracene...	18.496	2698235	18.573 ug/mlm
21) T	Benzo[g,h,i]perylene ...	18.714	2795670	19.569 ug/ml

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

Quantitation Report (QT Reviewed)

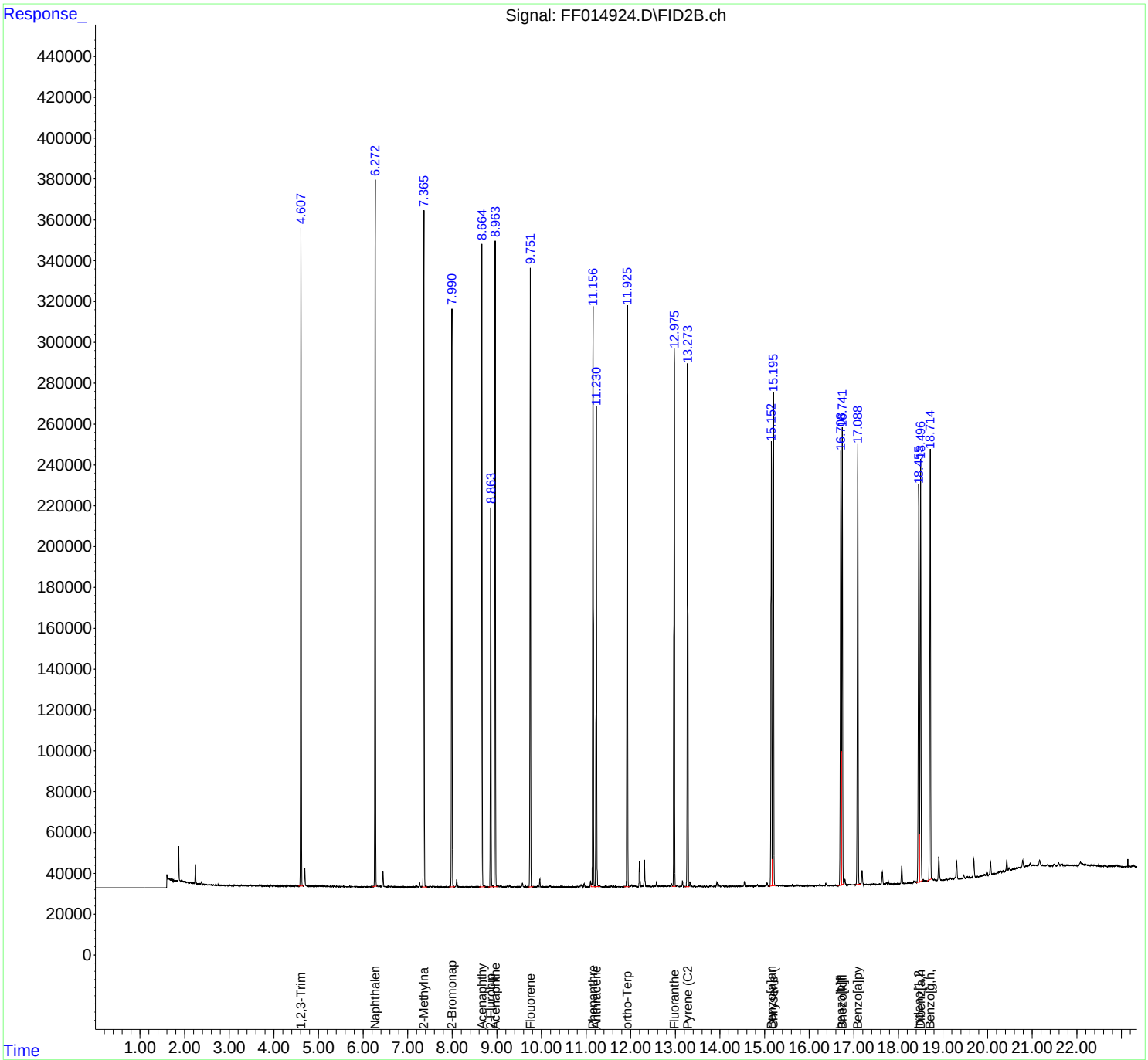
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF110424AR\
Data File : FF014924.D
Signal(s) : FID2B.ch
Acq On : 04 Nov 2024 20:11
Operator : YP\AJ
Sample : 20 PPM AROMATIC HC STD
Misc :
ALS Vial : 52 Sample Multiplier: 1

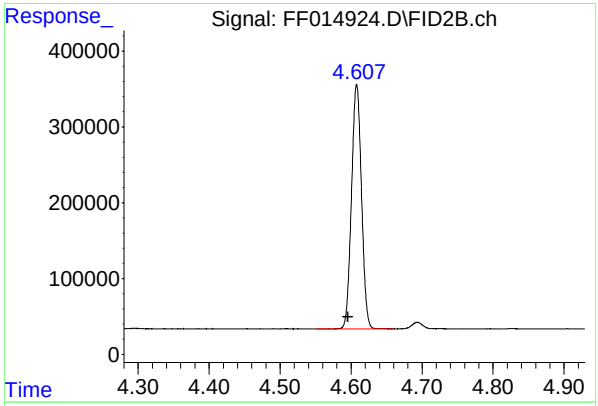
Integration File: autoint1.e
Quant Time: Nov 05 01:28:16 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 102124.M
Quant Title : GC Extractables
QLast Update : Tue Oct 22 04:14:53 2024
Response via : Initial Calibration
Integrator: ChemStation

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

Instrument :
FID_F
ClientSampleId :
20 PPM AROMATIC HC STD

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 11/06/2024
Supervised By :Ankita Jodhani 11/06/2024





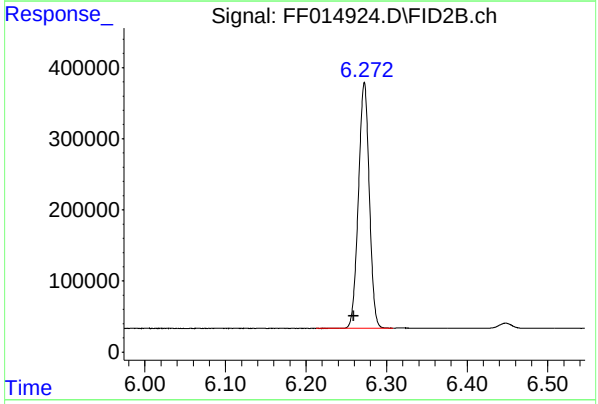
#1 1,2,3-Trimethylbenzene (C10.1)

R.T.: 4.608 min
Delta R.T.: 0.012 min
Response: 3149361
Conc: 20.70 ug/ml

Instrument :
FID_F
ClientSampleId :
20 PPM AROMATIC HC STD

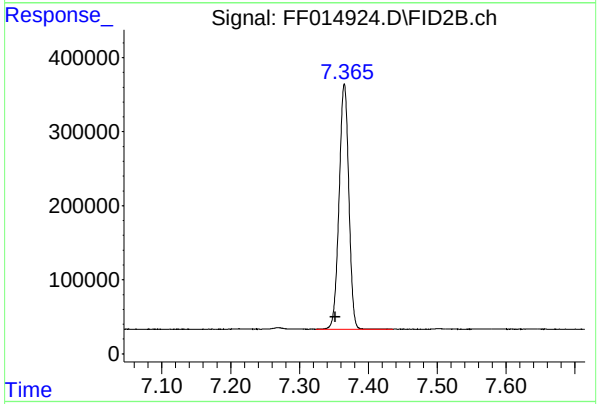
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/06/2024
Supervised By :Ankita Jodhani 11/06/2024



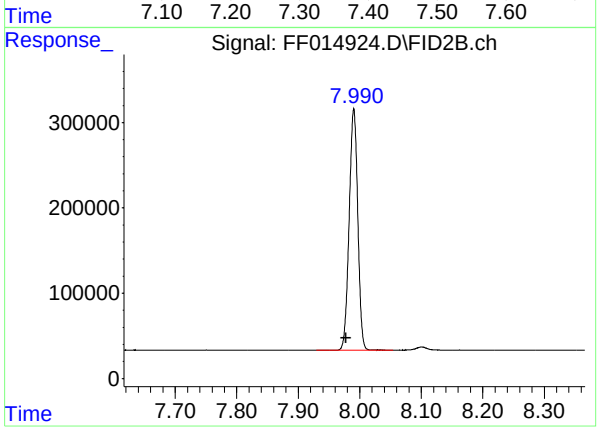
#2 Naphthalene (C11.7)

R.T.: 6.272 min
Delta R.T.: 0.013 min
Response: 3234756
Conc: 20.21 ug/ml



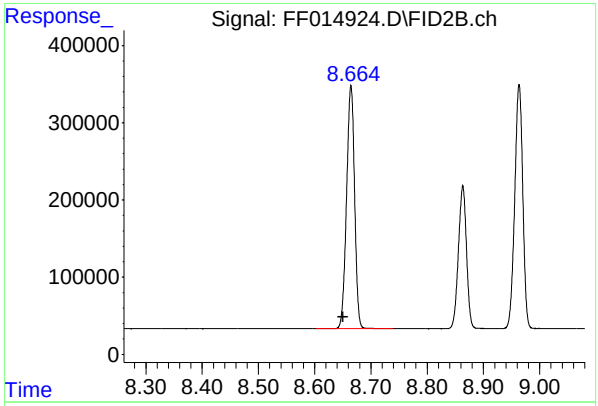
#3 2-Methylnaphthalene (C12.89)

R.T.: 7.365 min
Delta R.T.: 0.013 min
Response: 3246935
Conc: 20.07 ug/ml



#4 2-Bromonaphthalene (SURR)

R.T.: 7.990 min
Delta R.T.: 0.013 min
Response: 2752270
Conc: 19.74 ug/ml



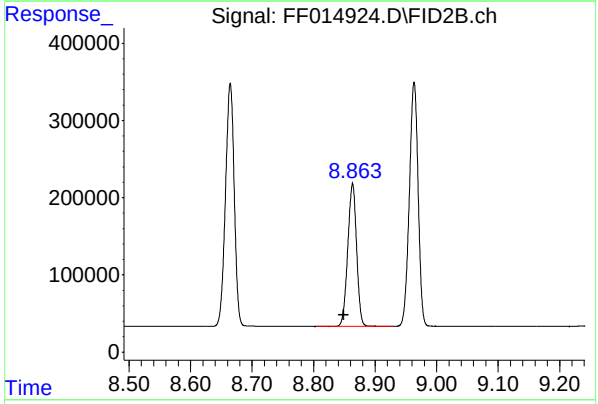
#5 Acenaphthylene (C15.06)

R.T.: 8.665 min
Delta R.T.: 0.014 min
Response: 3114237
Conc: 19.66 ug/ml

Instrument :
FID_F
ClientSampleId :
20 PPM AROMATIC HC STD

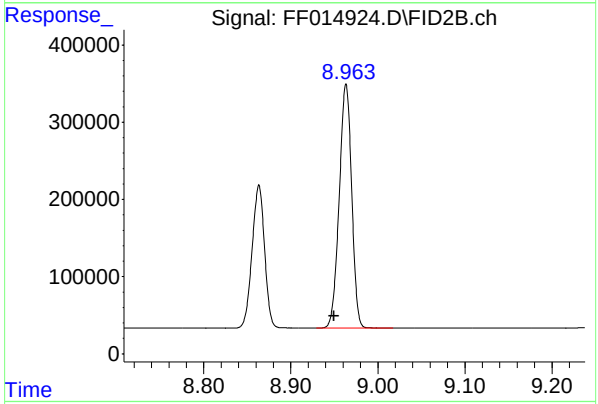
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/06/2024
Supervised By :Ankita Jodhani 11/06/2024



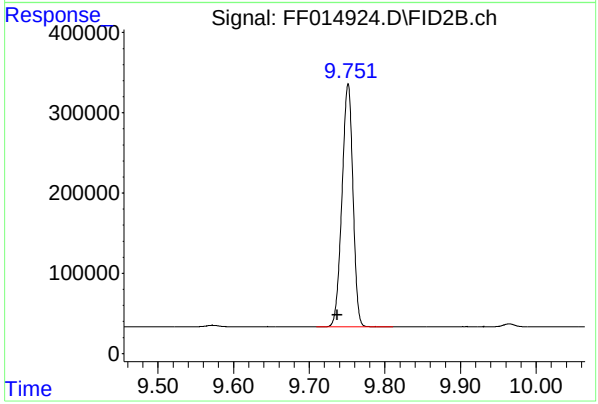
#6 2-Flurobiphenyl (SURR)

R.T.: 8.863 min
Delta R.T.: 0.014 min
Response: 1844065
Conc: 19.55 ug/ml



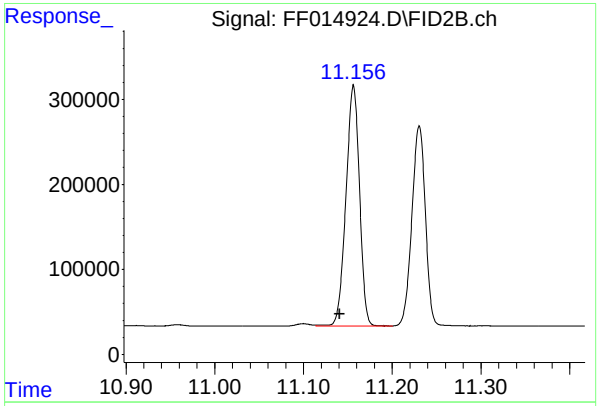
#7 Acenaphthene (C15.5)

R.T.: 8.963 min
Delta R.T.: 0.014 min
Response: 3138495
Conc: 19.78 ug/ml



#8 Flouorene (C16.55)

R.T.: 9.751 min
Delta R.T.: 0.014 min
Response: 3053015
Conc: 19.35 ug/ml



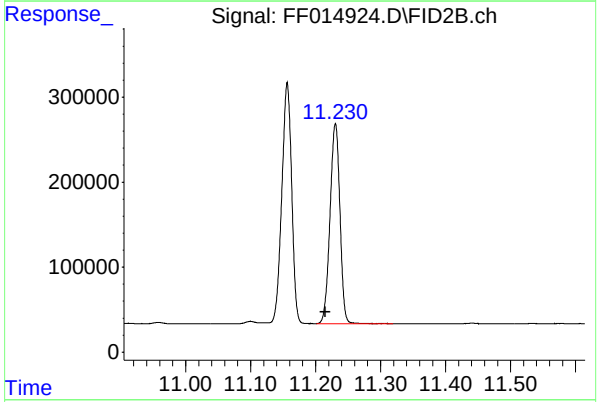
#9 Phenanthrene (C19.36)

R.T.: 11.156 min
Delta R.T.: 0.015 min
Response: 3005882
Conc: 19.09 ug/ml

Instrument :
FID_F
ClientSampleId :
20 PPM AROMATIC HC STD

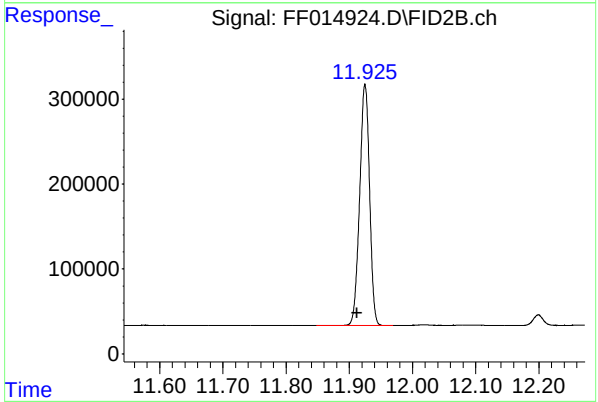
Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/06/2024
Supervised By :Ankita Jodhani 11/06/2024



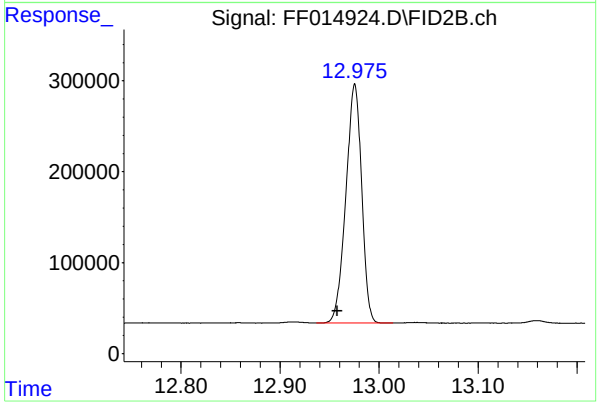
#10 Anthracene (C19.43)

R.T.: 11.230 min
Delta R.T.: 0.015 min
Response: 2494044
Conc: 16.58 ug/ml



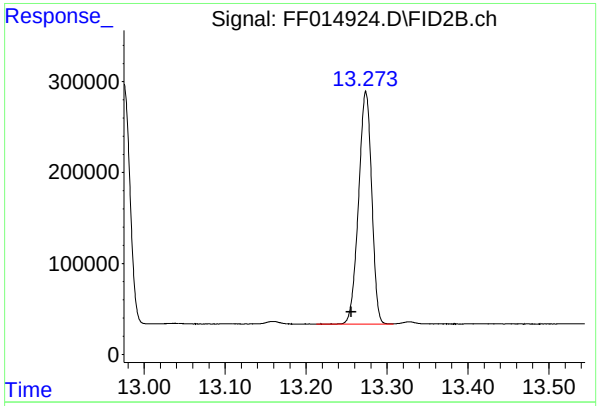
#11 ortho-Terphenyl (SURR)

R.T.: 11.925 min
Delta R.T.: 0.013 min
Response: 3093839
Conc: 19.34 ug/ml



#12 Fluoranthene (C21.85)

R.T.: 12.975 min
Delta R.T.: 0.018 min
Response: 2913410
Conc: 18.49 ug/ml



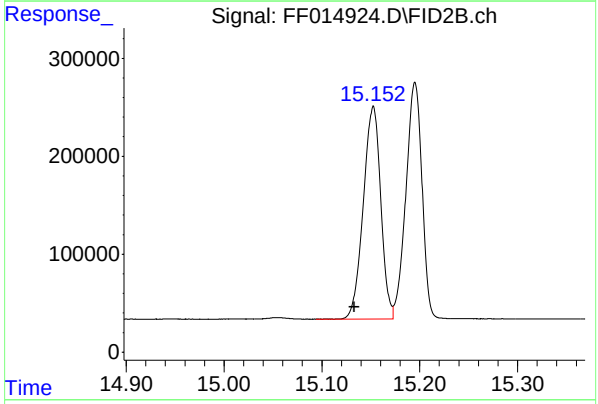
#13 Pyrene (C20.8)

R.T.: 13.274 min
Delta R.T.: 0.018 min
Response: 2879202
Conc: 18.47 ug/ml

Instrument :
FID_F
ClientSampleId :
20 PPM AROMATIC HC STD

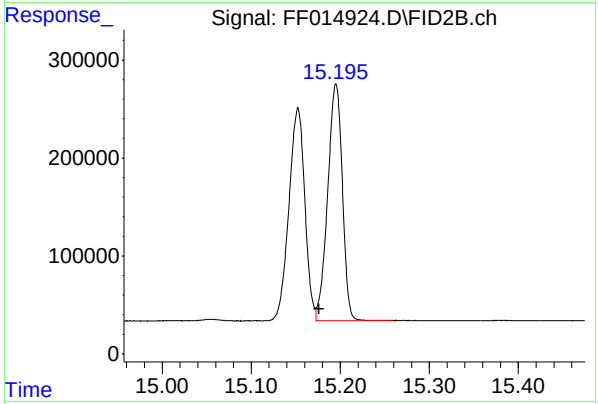
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/06/2024
Supervised By :Ankita Jodhani 11/06/2024



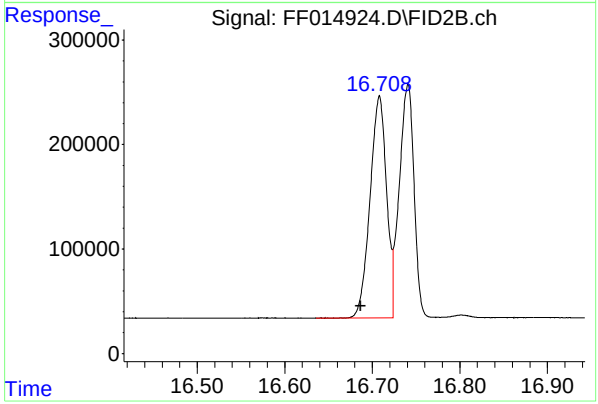
#14 Benzo[a]anthracene (C26.37)

R.T.: 15.152 min
Delta R.T.: 0.019 min
Response: 2697025
Conc: 17.75 ug/ml



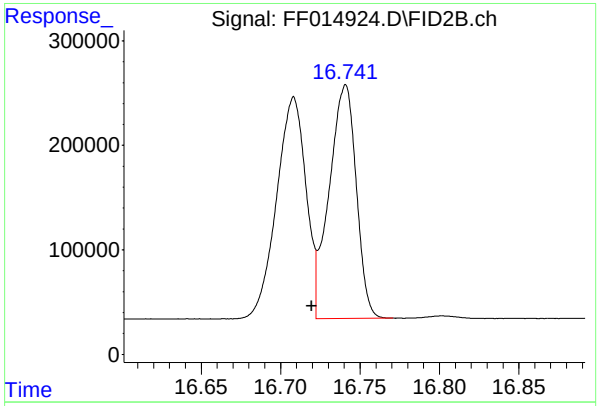
#15 Chrysene (C27.41)

R.T.: 15.195 min
Delta R.T.: 0.019 min
Response: 2765607
Conc: 17.90 ug/ml



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

R.T.: 16.708 min
Delta R.T.: 0.021 min
Response: 2777655
Conc: 18.17 ug/ml



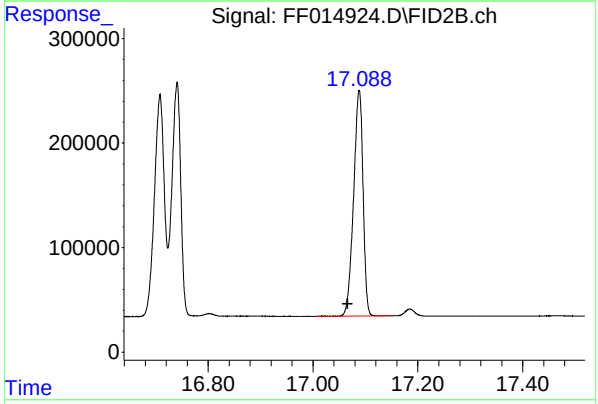
#17 Bnezo[k]fluoranthene (C30.14)

R.T.: 16.741 min
Delta R.T.: 0.021 min
Response: 2641493
Conc: 18.28 ug/ml

Instrument :
FID_F
ClientSampleId :
20 PPM AROMATIC HC STD

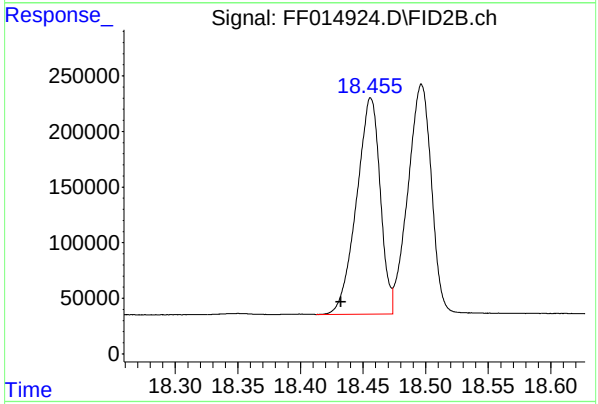
Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/06/2024
Supervised By :Ankita Jodhani 11/06/2024



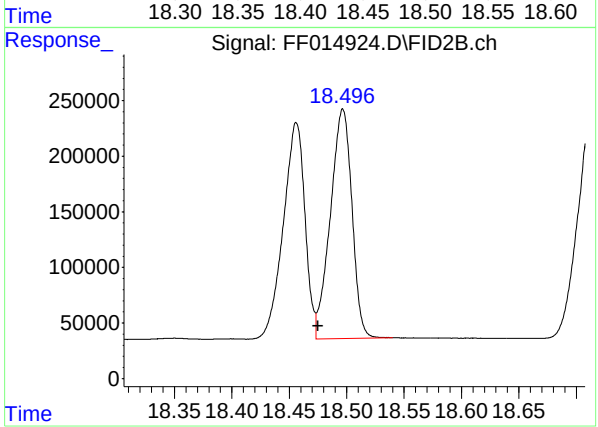
#18 Benzo[a]pyrene (C31.34)

R.T.: 17.088 min
Delta R.T.: 0.022 min
Response: 2708539
Conc: 18.15 ug/ml



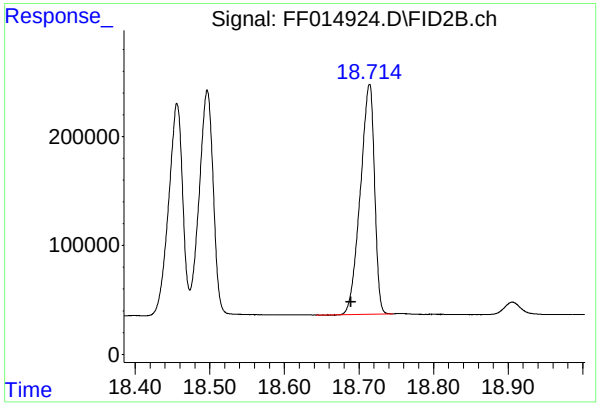
#19 Indeno[1,2,3-cd]pyrene (C35.01)

R.T.: 18.456 min
Delta R.T.: 0.023 min
Response: 2561100
Conc: 18.67 ug/ml



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

R.T.: 18.496 min
Delta R.T.: 0.021 min
Response: 2698235
Conc: 18.57 ug/ml m



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

R.T.: 18.714 min
Delta R.T.: 0.024 mi
Response: 2795670
Conc: 19.57 ug/m

Instrument :
FID_F
ClientSampleId :
20 PPM AROMATIC HC STD

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/06/2024
Supervised By :Ankita Jodhani 11/06/2024

Instrument :
FID_F
LabSampleId :
20 PPM AROMATIC HC STD

rteres

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/06/2024
Supervised By :Ankita Jodhani 11/06/2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF11042
Data File : FF014924.D
Signal(s) : FID2B.ch
Acq On : 04 Nov 2024 20:11
Sample : 20 PPM AROMATIC HC STD
Misc :
ALS Vial : 52 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 102124.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	4.608	4.551	4.659	BB	322449	3149361	96.99%	5.288%
2	6.272	6.212	6.308	BV	346099	3234756	99.62%	5.431%
3	7.365	7.324	7.436	BB	332258	3246935	100.00%	5.452%
4	7.990	7.929	8.054	BB	283203	2752270	84.77%	4.621%
5	8.665	8.602	8.739	BB	314798	3114237	95.91%	5.229%
6	8.863	8.804	8.929	BB	185950	1844065	56.79%	3.096%
7	8.963	8.929	9.017	BB	316677	3138495	96.66%	5.270%
8	9.751	9.709	9.811	BB	302504	3053015	94.03%	5.126%
9	11.156	11.114	11.201	VV	283016	3005882	92.58%	5.047%
10	11.230	11.201	11.319	VB	235660	2494044	76.81%	4.188%
11	11.925	11.847	11.969	BB	283751	3093839	95.28%	5.195%
12	12.975	12.936	13.014	VV	263492	2913410	89.73%	4.892%
13	13.274	13.212	13.307	BV	255876	2879202	88.67%	4.834%
14	15.152	15.094	15.173	BV	217832	2697025	83.06%	4.528%
15	15.195	15.173	15.259	VB	241957	2765607	85.18%	4.644%
16	16.708	16.636	16.724	BV	211421	2777655	85.55%	4.664%
17	16.740	16.724	16.777	VV	224395	2619932	80.69%	4.399%
18	17.088	17.006	17.152	BB	216173	2708539	83.42%	4.548%
19	18.456	18.412	18.474	PV	195077	2561100	78.88%	4.300%
20	18.497	18.474	18.581	VB	206382	2711743	83.52%	4.553%
21	18.714	18.642	18.746	BV	211489	2795670	86.10%	4.694%
			Sum of corrected areas:			59556782		

Aromatic EPH 102124.M Tue Nov 05 02:04:32 2024

Evaluate Continuing Calibration Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF110424AR\
Data File : FF014924.D
Signal(s) : FID2B.ch
Acq On : 04 Nov 2024 20:11
Operator : YP\AJ
Sample : 20 PPM AROMATIC HC STD
Misc :
ALS Vial : 52 Sample Multiplier: 1

Instrument :
FID_F
LabSampleId :
20 PPM AROMATIC HC STD

Integration File: autoint1.e
Quant Time: Nov 05 01:28:16 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 102124.M
Quant Title : GC Extractables
QLast Update : Tue Oct 22 04:14:53 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	152.113	157.468	E3	-3.5	102	0.01
2	T	Naphthalene (C11.7)	160.060	161.738	E3	-1.0	100	0.01
3	T	2-Methylnaphthalene (C12.89	161.779	162.347	E3	-0.4	99	0.01
4	S	2-Bromonaphthalene (SURR)	139.445	137.613	E3	1.3	97	0.01
5	T	Acenaphthylene (C15.06)	158.414	155.712	E3	1.7	97	0.01
6	S	2-Flurobiphenyl (SURR)	94.310	92.203	E3	2.2	96	0.01
7	T	Acenaphthene (C15.5)	158.666	156.925	E3	1.1	98	0.01
8	T	Flouorene (C16.55)	157.776	152.651	E3	3.2	95	0.01
9	T	Phenanthrene (C19.36)	157.423	150.294	E3	4.5	94	0.02
10	T	Anthracene (C19.43)	150.424	124.702	E3	17.1	82	0.02
11	S	ortho-Terphenyl (SURR)	159.977	154.692	E3	3.3	96	0.01
12	T	Fluoranthene (C21.85)	157.593	145.671	E3	7.6	91	0.02
13	T	Pyrene (C20.8)	155.921	143.960	E3	7.7	91	0.02
14	T	Benzo[a]anthracene (C26.37)	151.961	134.851	E3	11.3	88	0.02
15	T	Chrysene (C27.41)	154.542	138.280	E3	10.5	89	0.02
16	T	benzo[b]fluoranthene (C30.4	152.885	138.883	E3	9.2	90	0.02
17	T	Bnezo[k]fluoranthene (C30.1	144.464	132.075	E3	8.6	91	0.02
18	T	Benzo[a]pyrene (C31.34)	149.266	135.427	E3	9.3	90	0.02
19	T	Indeno[1,2,3-cd]pyrene (C35	137.151	128.055	E3	6.6	93	0.02
20	T	Dibenz[a,h]anthracene (C30.	145.275	134.912	E3	7.1	92	0.02
21	T	Benzo[g,h,i]perylene (C34.0	142.864	139.783	E3	2.2	96	0.02

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 : FG110424AL

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
File ID :	**FG014635.D**						
Aliphatic C9-C12	8683419.000	60.000	3.228	6.849	144723.650	131341.150	-10.189
Aliphatic C12-C16	5988867.000	40.000	6.850	10.292	149721.675	135821.940	-10.234
Aliphatic C16-C21	8883139.000	60.000	10.293	13.665	148052.317	141250.653	-4.815
Aliphatic C21-C28	10936782.000	80.000	13.666	17.329	136709.775	140581.144	2.754
Aliphatic C28-C40	12524334.000	120.000	17.330	22.266	104369.450	105686.976	1.247
Aliphatic EPH	47016541.000	360.000	3.228	22.266	130601.503	126992.540	-2.842

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:	04 Nov 2024 10:42
Client Sample ID:		Operator:	YP\AJ
Data file:	FG014635.D	Misc:	
Instrument:	FID_G	ALS Vial:	2
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aliphatic C9-C12	3.228	6.849	8683419.000	60.000	ug/ml
Aliphatic C12-C16	6.850	10.292	5988867.000	40.000	ug/ml
Aliphatic C16-C21	10.293	13.665	8883139.000	60.000	ug/ml
Aliphatic C21-C28	13.666	17.329	10936782.000	80.000	ug/ml
Aliphatic C28-C40	17.330	22.266	12524334.000	120.000	ug/ml
Aliphatic EPH	3.228	22.266	47016541.000	360.000	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG110424AL\
Data File : FG014635.D
Signal(s) : FID1A.ch
Acq On : 04 Nov 2024 10:42
Operator : YP\AJ
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
20 PPM ALIPHATIC HC STD

Integration File: autoint1.e
Quant Time: Nov 05 00:35:56 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 102124.M
Quant Title : GC Extractables
QLast Update : Tue Oct 22 06:49:54 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)	11.958	3245616	21.176 ug/ml
Spiked Amount	50.000		Recovery =	42.35%
12) S	1-chlorooctadecane (S...	13.397	2473185	20.141 ug/ml
Spiked Amount	50.000		Recovery =	40.28%
	Target Compounds			
1) T	n-Nonane (C9)	3.328	2827741	21.851 ug/ml
2) T	n-Decane (C10)	4.578	2902986	22.031 ug/ml
3) T	A~Naphthalene (C11.7)	6.284	3128332	21.808 ug/ml
4) T	n-Dodecane (C12)	6.749	2952692	22.227 ug/ml
5) T	A~2-methylnaphthalene...	7.382	3031292	21.728 ug/ml
6) T	n-Tetradecane (C14)	8.581	2945358	22.199 ug/ml
7) T	n-Hexadecane (C16)	10.192	3043509	21.902 ug/ml
8) T	n-Octadecane (C18)	11.639	3069382	21.440 ug/ml
10) T	n-Eicosane (C20)	12.950	2935994	20.878 ug/ml
11) T	n-Heneicosane (C21)	13.565	2877763	20.560 ug/ml
13) T	n-Docosane (C22)	14.151	2854294	20.290 ug/ml
14) T	n-Tetracosane (C24)	15.256	2792001	19.621 ug/ml
15) T	n-Hexacosane (C26)	16.279	2689004	19.051 ug/ml
16) T	n-Octacosane (C28)	17.229	2601483	18.823 ug/ml
17) T	n-Tricontane (C30)	18.117	2648224	19.107 ug/ml
18) T	n-Dotriacontane (C32)	18.951	2529763	19.322 ug/ml
19) T	n-Tetratriacontane (C34)	19.734	2177466	19.454 ug/ml
20) T	n-Hexatriacontane (C36)	20.475	1843695	19.808 ug/ml
21) T	n-Octatriacontane (C38)	21.225	1662818	19.903 ug/ml
22) T	n-Tetracontane (C40)	22.166	1662368	21.861 ug/ml

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

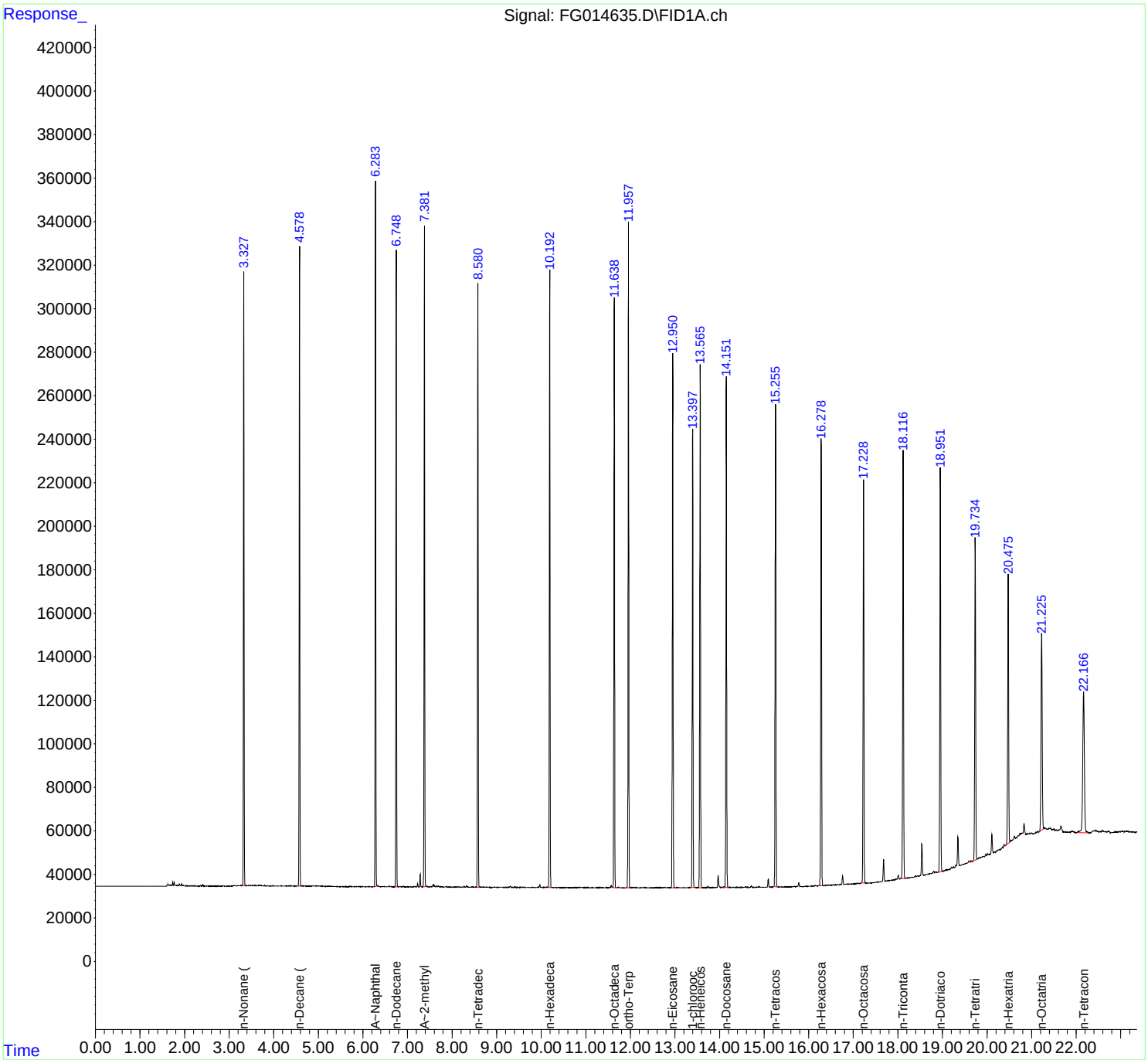
Quantitation Report (QT Reviewed)

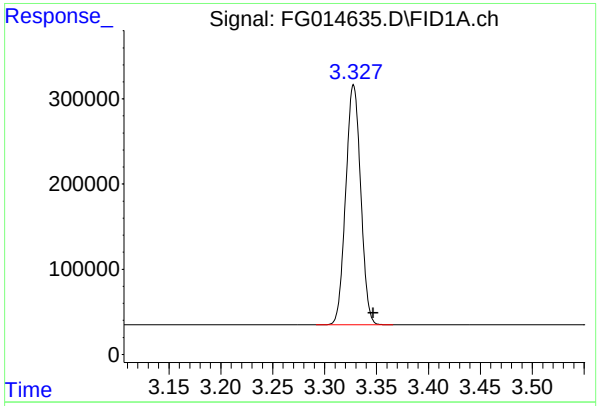
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG110424AL\
Data File : FG014635.D
Signal(s) : FID1A.ch
Acq On : 04 Nov 2024 10:42
Operator : YP\AJ
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
20 PPM ALIPHATIC HC STD

Integration File: autoint1.e
Quant Time: Nov 05 00:35:56 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 102124.M
Quant Title : GC Extractables
QLast Update : Tue Oct 22 06:49:54 2024
Response via : Initial Calibration
Integrator: ChemStation

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

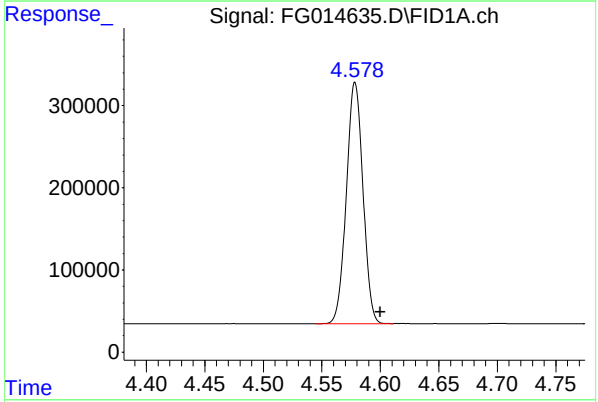




#1 n-Nonane (C9)

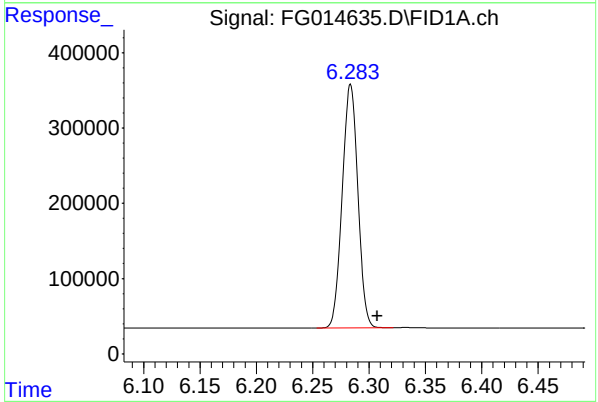
R.T.: 3.328 min
Delta R.T.: -0.019 min
Response: 2827741
Conc: 21.85 ug/ml

Instrument :
FID_G
ClientSampleId :
20 PPM ALIPHATIC HC STD



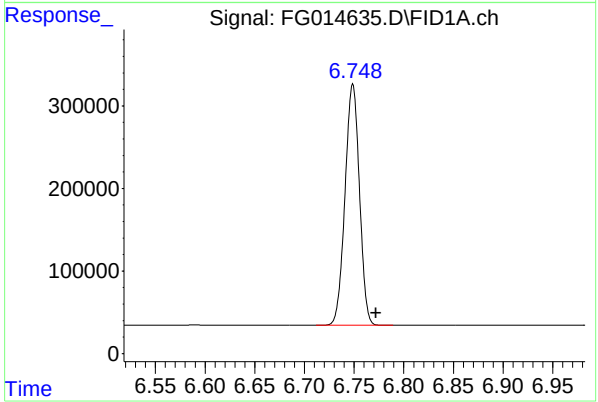
#2 n-Decane (C10)

R.T.: 4.578 min
Delta R.T.: -0.022 min
Response: 2902986
Conc: 22.03 ug/ml



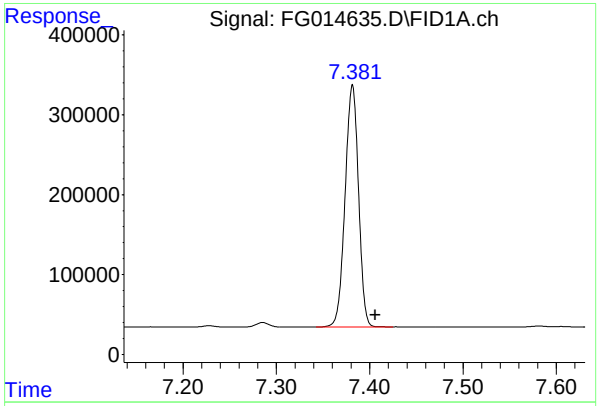
#3 A~Naphthalene (C11.7)

R.T.: 6.284 min
Delta R.T.: -0.023 min
Response: 3128332
Conc: 21.81 ug/ml



#4 n-Dodecane (C12)

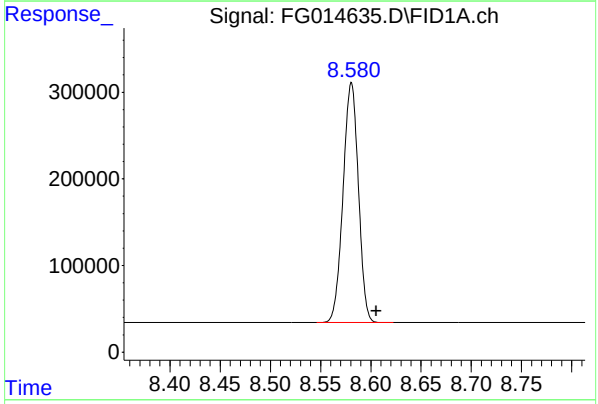
R.T.: 6.749 min
Delta R.T.: -0.023 min
Response: 2952692
Conc: 22.23 ug/ml



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

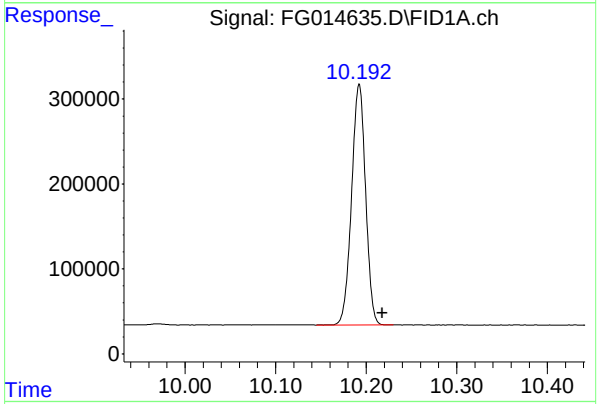
R.T.: 7.382 min
Delta R.T.: -0.024 min
Response: 3031292
Conc: 21.73 ug/ml

Instrument :
FID_G
ClientSampleId :
20 PPM ALIPHATIC HC STD



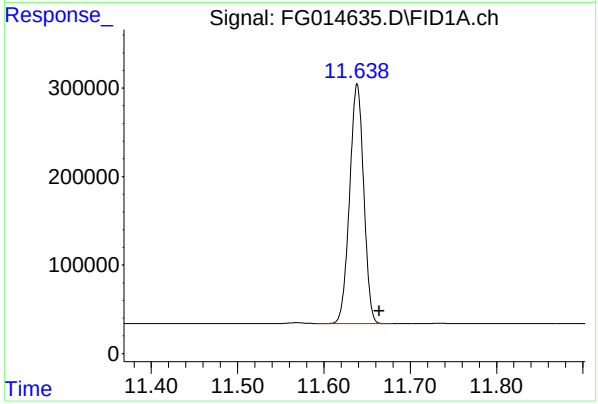
#6 n-Tetradecane (C14)

R.T.: 8.581 min
Delta R.T.: -0.025 min
Response: 2945358
Conc: 22.20 ug/ml



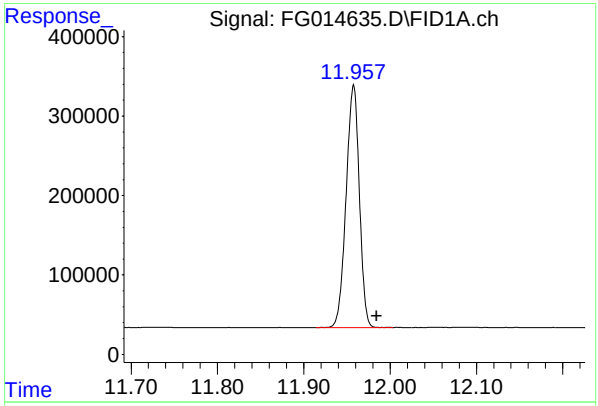
#7 n-Hexadecane (C16)

R.T.: 10.192 min
Delta R.T.: -0.025 min
Response: 3043509
Conc: 21.90 ug/ml



#8 n-Octadecane (C18)

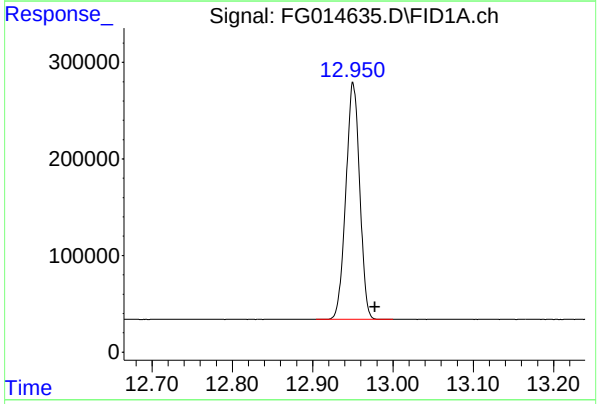
R.T.: 11.639 min
Delta R.T.: -0.026 min
Response: 3069382
Conc: 21.44 ug/ml



#9 ortho-Terphenyl (SURR)

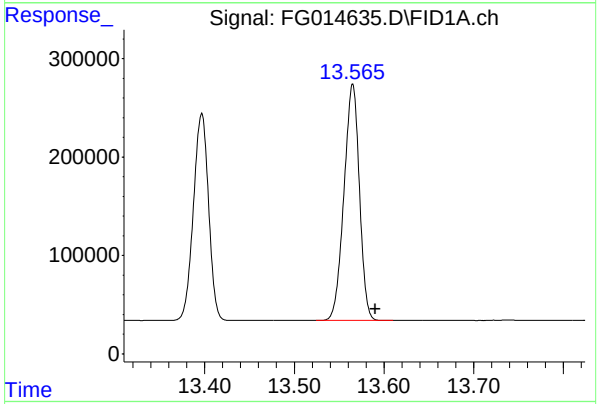
R.T.: 11.958 min
Delta R.T.: -0.026 min
Response: 3245616
Conc: 21.18 ug/ml

Instrument :
FID_G
ClientSampleId :
20 PPM ALIPHATIC HC STD



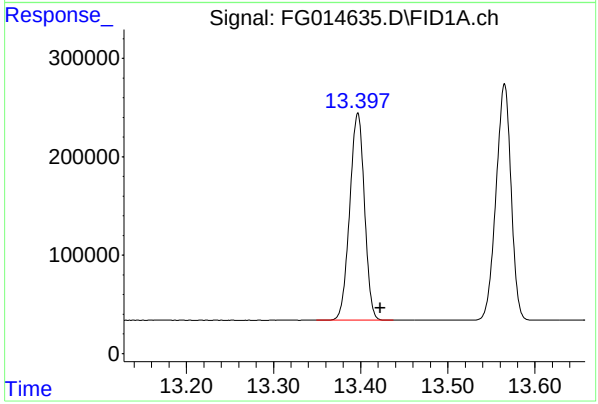
#10 n-Eicosane (C20)

R.T.: 12.950 min
Delta R.T.: -0.027 min
Response: 2935994
Conc: 20.88 ug/ml



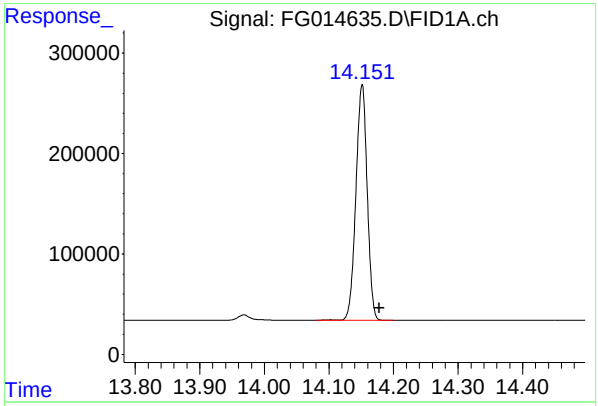
#11 n-Heneicosane (C21)

R.T.: 13.565 min
Delta R.T.: -0.025 min
Response: 2877763
Conc: 20.56 ug/ml



#12 1-chlorooctadecane (SURR)

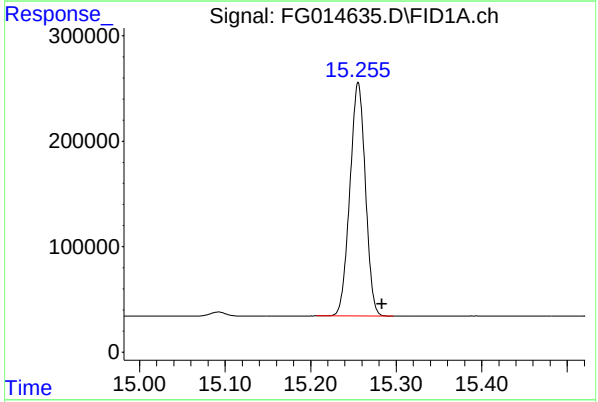
R.T.: 13.397 min
Delta R.T.: -0.026 min
Response: 2473185
Conc: 20.14 ug/ml



#13 n-Docosane (C22)

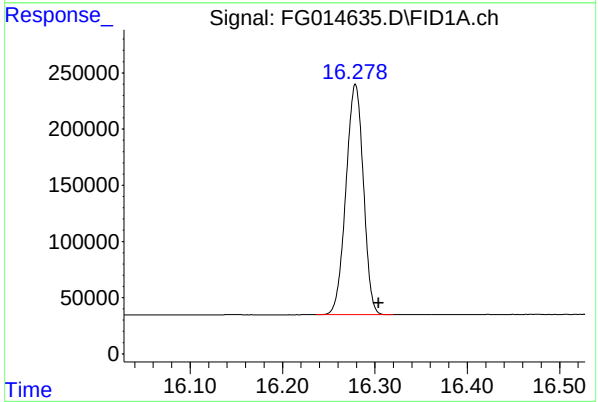
R.T.: 14.151 min
Delta R.T.: -0.027 min
Response: 2854294
Conc: 20.29 ug/ml

Instrument :
FID_G
ClientSampleId :
20 PPM ALIPHATIC HC STD



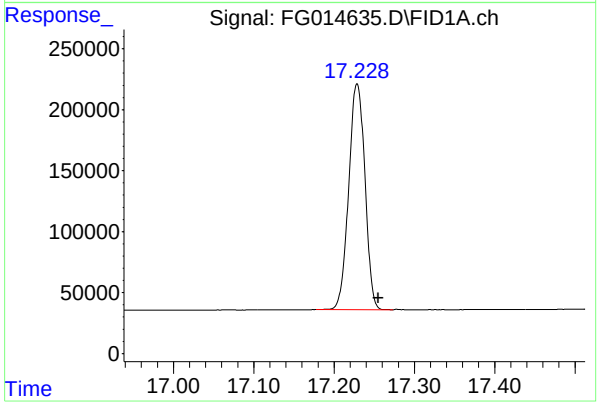
#14 n-Tetracosane (C24)

R.T.: 15.256 min
Delta R.T.: -0.028 min
Response: 2792001
Conc: 19.62 ug/ml



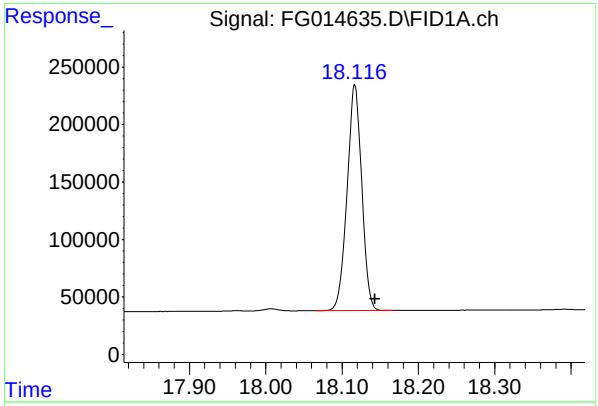
#15 n-Hexacosane (C26)

R.T.: 16.279 min
Delta R.T.: -0.025 min
Response: 2689004
Conc: 19.05 ug/ml



#16 n-Octacosane (C28)

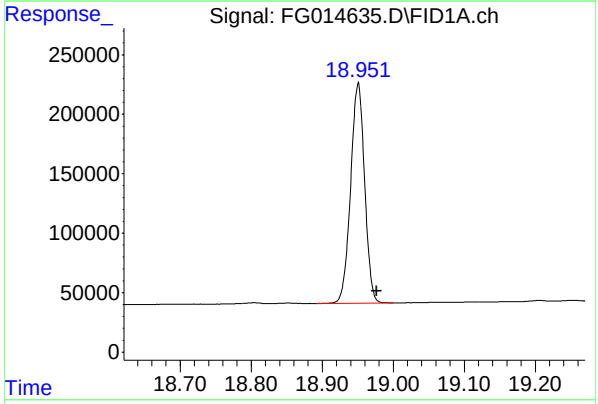
R.T.: 17.229 min
Delta R.T.: -0.026 min
Response: 2601483
Conc: 18.82 ug/ml



#17 n-Tricontane (C30)

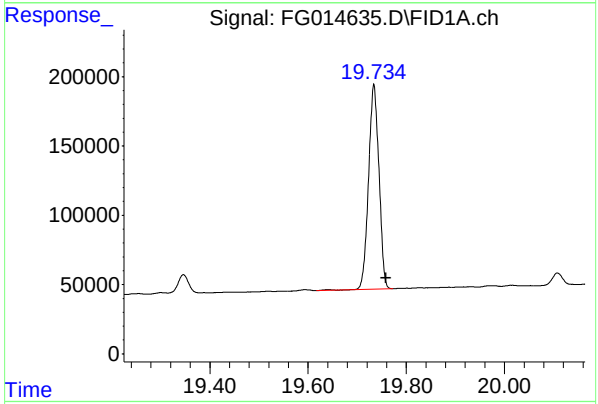
R.T.: 18.117 min
Delta R.T.: -0.027 min
Response: 2648224
Conc: 19.11 ug/ml

Instrument :
FID_G
ClientSampleId :
20 PPM ALIPHATIC HC STD



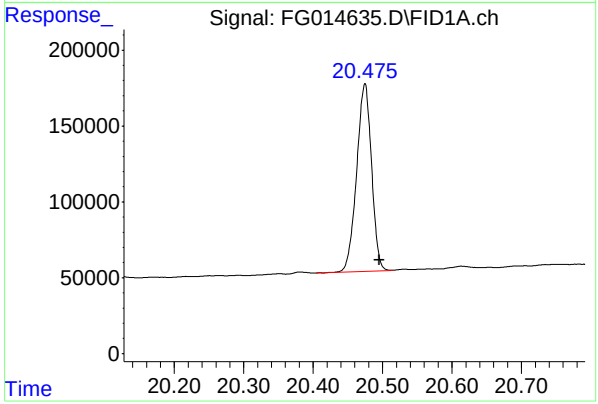
#18 n-Dotriacontane (C32)

R.T.: 18.951 min
Delta R.T.: -0.026 min
Response: 2529763
Conc: 19.32 ug/ml



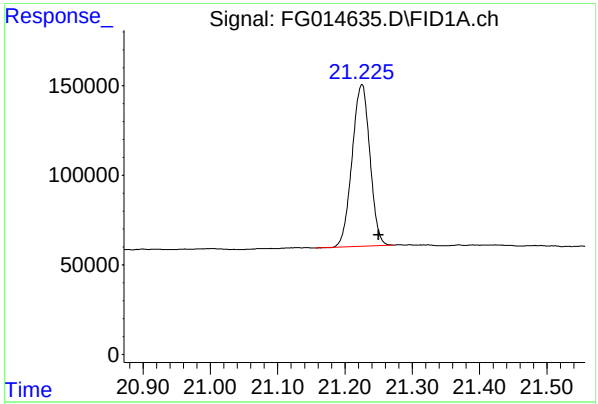
#19 n-Tetratriacontane (C34)

R.T.: 19.734 min
Delta R.T.: -0.024 min
Response: 2177466
Conc: 19.45 ug/ml



#20 n-Hexatriacontane (C36)

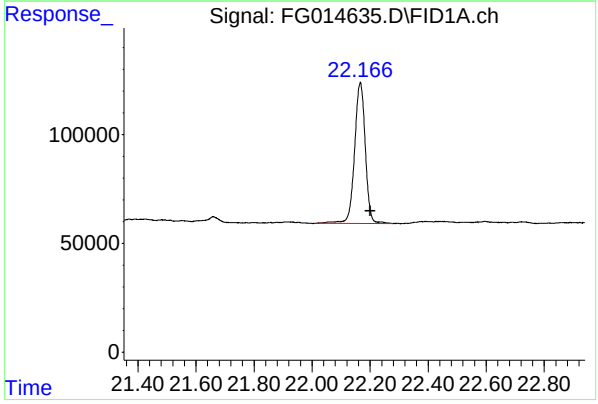
R.T.: 20.475 min
Delta R.T.: -0.021 min
Response: 1843695
Conc: 19.81 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 21.225 min
Delta R.T.: -0.025 min
Response: 1662818
Conc: 19.90 ug/ml

Instrument :
FID_G
ClientSampleId :
20 PPM ALIPHATIC HC STD



#22 n-Tetracontane (C40)

R.T.: 22.166 min
Delta R.T.: -0.034 min
Response: 1662368
Conc: 21.86 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG110424AL\
Data File : FG014635.D
Signal(s) : FID1A.ch
Acq On : 04 Nov 2024 10:42
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 102124.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	3.328	3.292	3.366	BB	281915	2827741	87.12%	4.801%
2	4.578	4.545	4.611	BB	293994	2902986	89.44%	4.929%
3	6.284	6.253	6.322	BV	323911	3128332	96.39%	5.312%
4	6.749	6.712	6.789	BB	292289	2952692	90.97%	5.013%
5	7.382	7.343	7.425	BB	303854	3031292	93.40%	5.147%
6	8.581	8.546	8.623	BB	277636	2945358	90.75%	5.001%
7	10.192	10.145	10.230	BB	284093	3043509	93.77%	5.168%
8	11.639	11.591	11.680	BB	271132	3069382	94.57%	5.212%
9	11.958	11.914	12.003	BB	305630	3245616	100.00%	5.511%
10	12.950	12.904	13.000	BB	245499	2935994	90.46%	4.985%
11	13.397	13.349	13.438	BB	210463	2473185	76.20%	4.199%
12	13.565	13.524	13.610	BB	240462	2877763	88.67%	4.886%
13	14.151	14.080	14.199	BB	234878	2854294	87.94%	4.846%
14	15.256	15.207	15.297	BB	221644	2792001	86.02%	4.741%
15	16.279	16.237	16.320	BB	205104	2689004	82.85%	4.566%
16	17.229	17.178	17.273	BB	185354	2601483	80.15%	4.417%
17	18.117	18.066	18.167	BB	196229	2648224	81.59%	4.497%
18	18.951	18.892	19.000	BB	185664	2529763	77.94%	4.295%
19	19.734	19.617	19.773	BB	148181	2177466	67.09%	3.697%
20	20.475	20.404	20.515	BV	123885	1843695	56.81%	3.130%
21	21.225	21.157	21.271	BV	90438	1662818	51.23%	2.823%
22	22.166	22.014	22.279	BB	65009	1662368	51.22%	2.823%
			Sum of corrected areas:			58894964		

Aliphatic EPH 102124.M Tue Nov 05 01:17:25 2024

Evaluate Continuing Calibration Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG110424AL\
Data File : FG014635.D
Signal(s) : FID1A.ch
Acq On : 04 Nov 2024 10:42
Operator : YP\AJ
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
FID_G
LabSampleId :
20 PPM ALIPHATIC HC STD

Integration File: autoint1.e
Quant Time: Nov 05 00:35:56 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 102124.M
Quant Title : GC Extractables
QLast Update : Tue Oct 22 06:49:54 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)	129.413	141.387 E3	-9.3	110	-0.02
2	T	n-Decane (C10)	131.768	145.149 E3	-10.2	111	-0.02
3	T	A~Naphthalene (C11.7)	143.450	156.417 E3	-9.0	110	-0.02
4	T	n-Dodecane (C12)	132.843	147.635 E3	-11.1	112	-0.02
5	T	A~2-methylnaphthalene (C12.	139.508	151.565 E3	-8.6	110	-0.02
6	T	n-Tetradecane (C14)	132.681	147.268 E3	-11.0	112	-0.02
7	T	n-Hexadecane (C16)	138.963	152.175 E3	-9.5	111	-0.03
8	T	n-Octadecane (C18)	143.158	153.469 E3	-7.2	110	-0.03
9	S	ortho-Terphenyl (SURR)	153.268	162.281 E3	-5.9	108	-0.03
10	T	n-Eicosane (C20)	140.628	146.800 E3	-4.4	108	-0.03
11	T	n-Heneicosane (C21)	139.966	143.888 E3	-2.8	107	-0.02
12	S	1-chlorooctadecane (SURR)	122.791	123.659 E3	-0.7	104	-0.03
13	T	n-Docosane (C22)	140.672	142.715 E3	-1.5	106	-0.03
14	T	n-Tetracosane (C24)	142.295	139.600 E3	1.9	103	-0.03
15	T	n-Hexacosane (C26)	141.151	134.450 E3	4.7	100	-0.03
16	T	n-Octacosane (C28)	138.206	130.074 E3	5.9	99	-0.03
17	T	n-Tricontane (C30)	138.602	132.411 E3	4.5	101	-0.03
18	T	n-Dotriacontane (C32)	130.924	126.488 E3	3.4	102	-0.03
19	T	n-Tetratriacontane (C34)	111.929	108.873 E3	2.7	102	-0.02
20	T	n-Hexatriacontane (C36)	93.076	92.185 E3	1.0	103	-0.02
21	T	n-Octatriacontane (C38)	83.548	83.141 E3	0.5	103	-0.03
22	T	n-Tetracontane (C40)	76.043	83.118 E3	-9.3	113	-0.03

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 : FG110424AL

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
File ID :	**FG014654.D**						
Aliphatic C9-C12	8864399.000	60.000	3.228	6.849	147739.983	131341.150	-12.486
Aliphatic C12-C16	6060981.000	40.000	6.850	10.292	151524.525	135821.940	-11.561
Aliphatic C16-C21	8934466.000	60.000	10.293	13.665	148907.767	141250.653	-5.421
Aliphatic C21-C28	10963583.000	80.000	13.666	17.329	137044.788	140581.144	2.516
Aliphatic C28-C40	12678278.000	120.000	17.330	22.266	105652.317	105686.976	0.033
Aliphatic EPH	47501707.000	360.000	3.228	22.266	131949.186	126992.540	-3.903

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:	04 Nov 2024 20:11
Client Sample ID:		Operator:	YP\AJ
Data file:	FG014654.D	Misc:	
Instrument:	FID_G	ALS Vial:	2
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aliphatic C9-C12	3.228	6.849	8864399.000	60.000	ug/ml
Aliphatic C12-C16	6.850	10.292	6060981.000	40.000	ug/ml
Aliphatic C16-C21	10.293	13.665	8934466.000	60.000	ug/ml
Aliphatic C21-C28	13.666	17.329	10963583.000	80.000	ug/ml
Aliphatic C28-C40	17.330	22.266	12678278.000	120.000	ug/ml
Aliphatic EPH	3.228	22.266	47501707.000	360.000	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG110424AL\
Data File : FG014654.D
Signal(s) : FID1A.ch
Acq On : 04 Nov 2024 20:11
Operator : YP\AJ
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
20 PPM ALIPHATIC HC STD

Integration File: autoint1.e
Quant Time: Nov 05 00:39:09 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 102124.M
Quant Title : GC Extractables
QLast Update : Tue Oct 22 06:49:54 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)	11.955	3259258	21.265 ug/ml
Spiked Amount	50.000		Recovery =	42.53%
12) S	1-chlorooctadecane (S...	13.395	2492002	20.295 ug/ml
Spiked Amount	50.000		Recovery =	40.59%
	Target Compounds			
1) T	n-Nonane (C9)	3.327	2898007	22.393 ug/ml
2) T	n-Decane (C10)	4.578	2965281	22.504 ug/ml
3) T	A~Naphthalene (C11.7)	6.282	3181832	22.181 ug/ml
4) T	n-Dodecane (C12)	6.748	3001111	22.591 ug/ml
5) T	A~2-methylnaphthalene...	7.380	3076578	22.053 ug/ml
6) T	n-Tetradecane (C14)	8.579	2984472	22.494 ug/ml
7) T	n-Hexadecane (C16)	10.191	3076509	22.139 ug/ml
8) T	n-Octadecane (C18)	11.637	3092656	21.603 ug/ml
10) T	n-Eicosane (C20)	12.950	2953476	21.002 ug/ml
11) T	n-Heneicosane (C21)	13.563	2888334	20.636 ug/ml
13) T	n-Docosane (C22)	14.149	2864652	20.364 ug/ml
14) T	n-Tetracosane (C24)	15.254	2792228	19.623 ug/ml
15) T	n-Hexacosane (C26)	16.276	2691047	19.065 ug/ml
16) T	n-Octacosane (C28)	17.226	2615656	18.926 ug/ml
17) T	n-Tricontane (C30)	18.114	2667736	19.247 ug/ml
18) T	n-Dotriacontane (C32)	18.947	2556314	19.525 ug/ml
19) T	n-Tetratriacontane (C34)	19.730	2203333	19.685 ug/ml
20) T	n-Hexatriacontane (C36)	20.471	1871157	20.104 ug/ml
21) T	n-Octatriacontane (C38)	21.220	1726098	20.660 ug/ml
22) T	n-Tetracontane (C40)	22.159	1653640	21.746 ug/ml

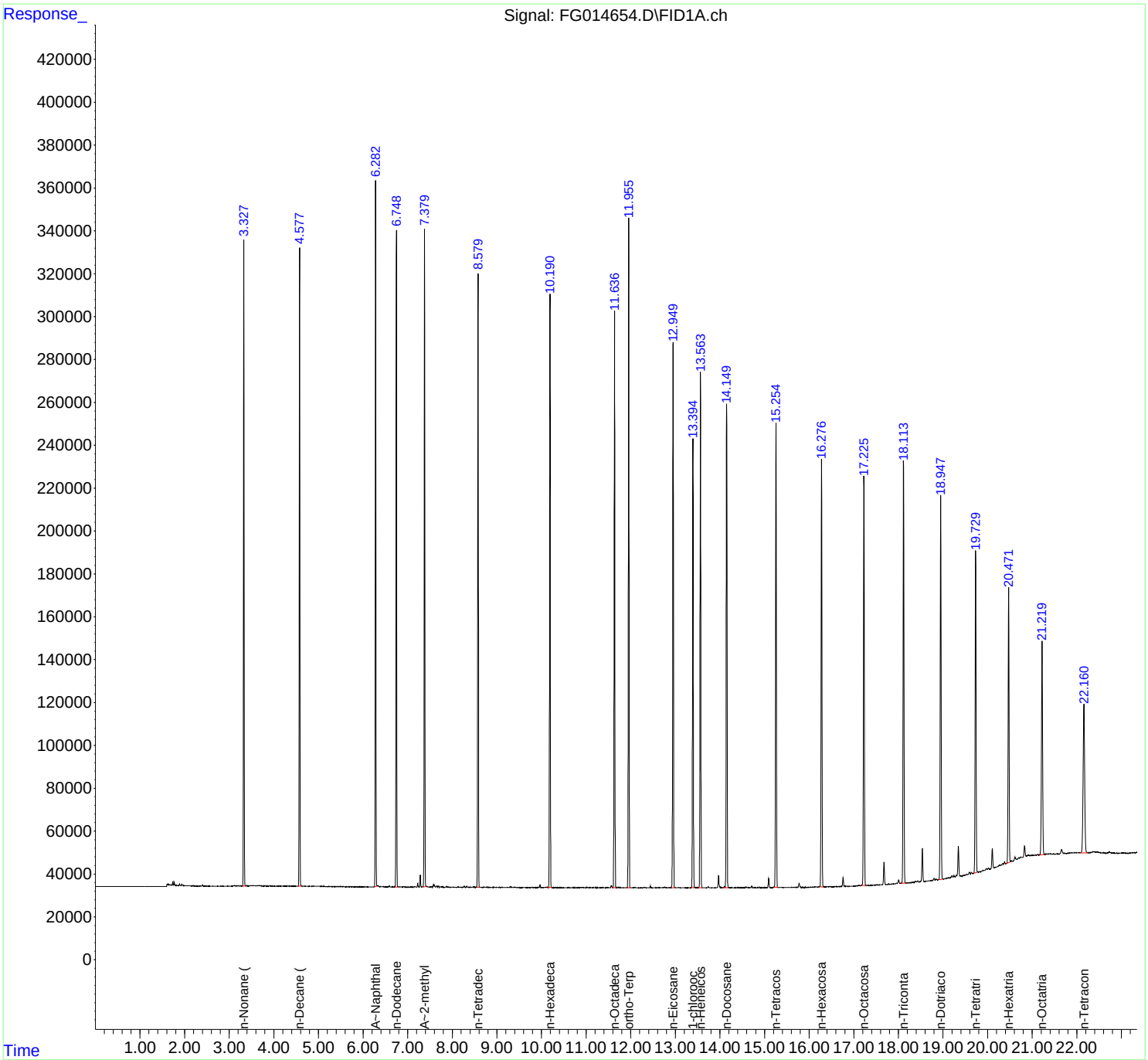
(f)=RT Delta > 1/2 Window (m)=manual int.

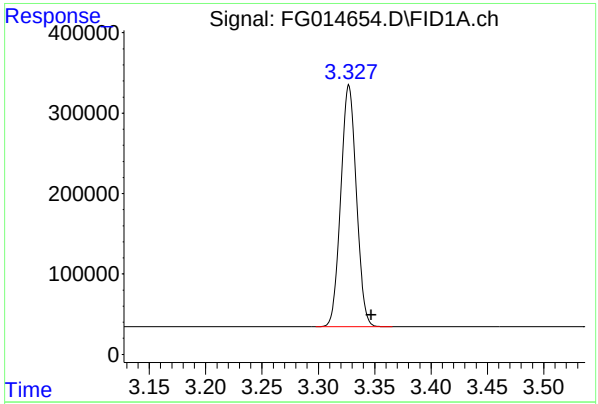
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG110424AL\
Data File : FG014654.D
Signal(s) : FID1A.ch
Acq On : 04 Nov 2024 20:11
Operator : YP\AJ
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
20 PPM ALIPHATIC HC STD

Integration File: autoint1.e
Quant Time: Nov 05 00:39:09 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 102124.M
Quant Title : GC Extractables
QLast Update : Tue Oct 22 06:49:54 2024
Response via : Initial Calibration
Integrator: ChemStation

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

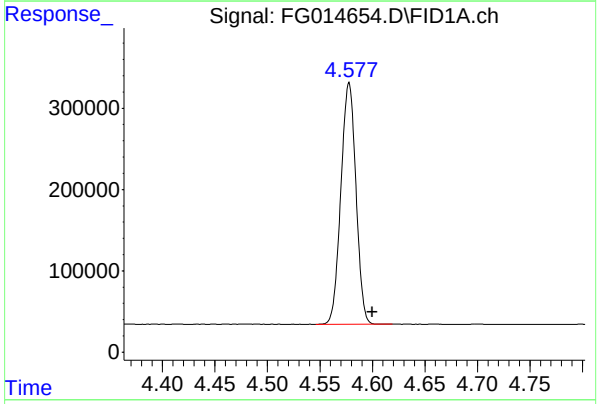




#1 n-Nonane (C9)

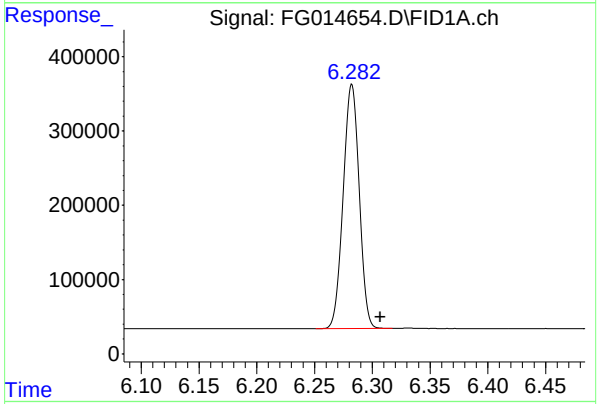
R.T.: 3.327 min
Delta R.T.: -0.020 min
Response: 2898007
Conc: 22.39 ug/ml

Instrument :
FID_G
ClientSampleId :
20 PPM ALIPHATIC HC STD



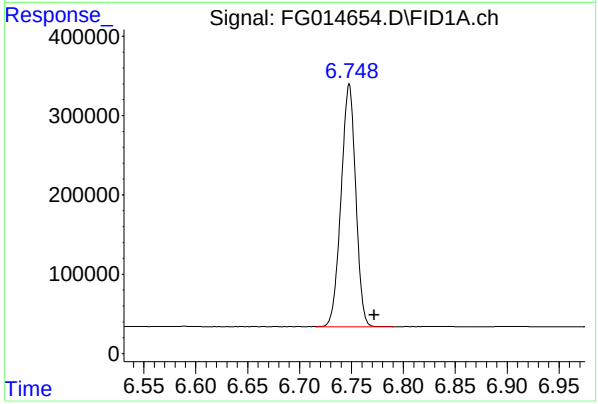
#2 n-Decane (C10)

R.T.: 4.578 min
Delta R.T.: -0.022 min
Response: 2965281
Conc: 22.50 ug/ml



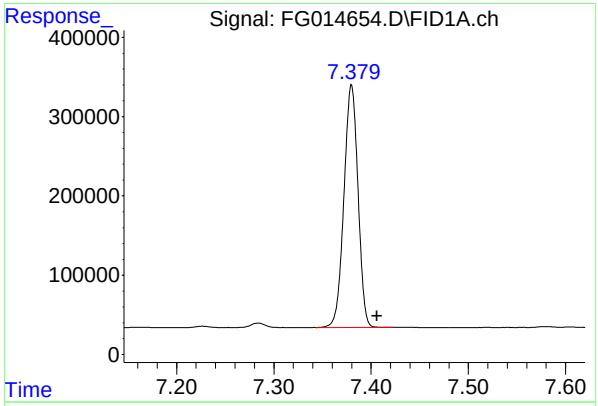
#3 A~Naphthalene (C11.7)

R.T.: 6.282 min
Delta R.T.: -0.025 min
Response: 3181832
Conc: 22.18 ug/ml



#4 n-Dodecane (C12)

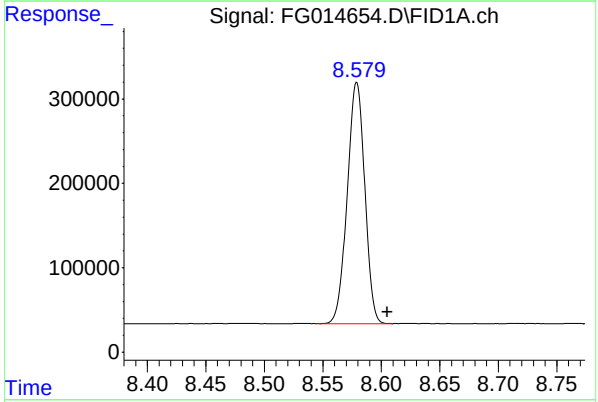
R.T.: 6.748 min
Delta R.T.: -0.024 min
Response: 3001111
Conc: 22.59 ug/ml



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

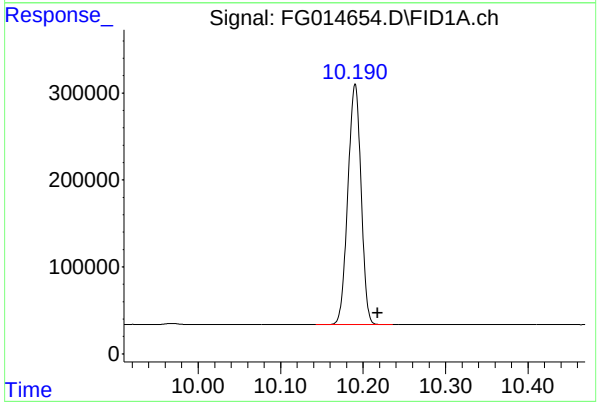
R.T.: 7.380 min
Delta R.T.: -0.026 min
Response: 3076578
Conc: 22.05 ug/ml

Instrument :
FID_G
ClientSampleId :
20 PPM ALIPHATIC HC STD



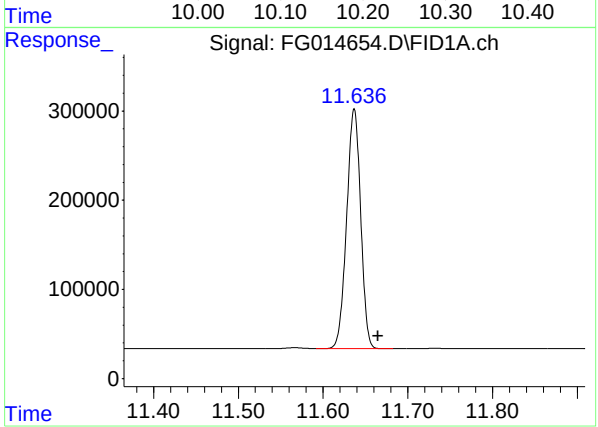
#6 n-Tetradecane (C14)

R.T.: 8.579 min
Delta R.T.: -0.026 min
Response: 2984472
Conc: 22.49 ug/ml



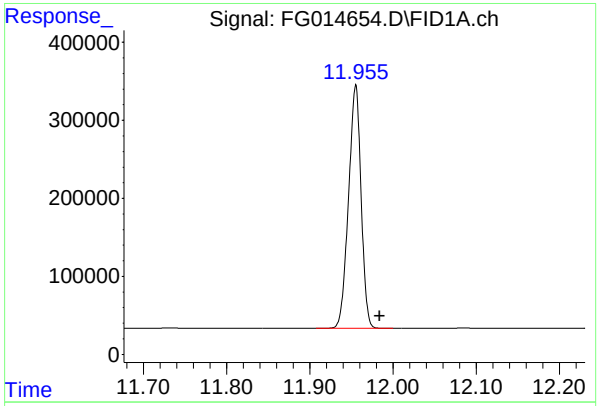
#7 n-Hexadecane (C16)

R.T.: 10.191 min
Delta R.T.: -0.027 min
Response: 3076509
Conc: 22.14 ug/ml



#8 n-Octadecane (C18)

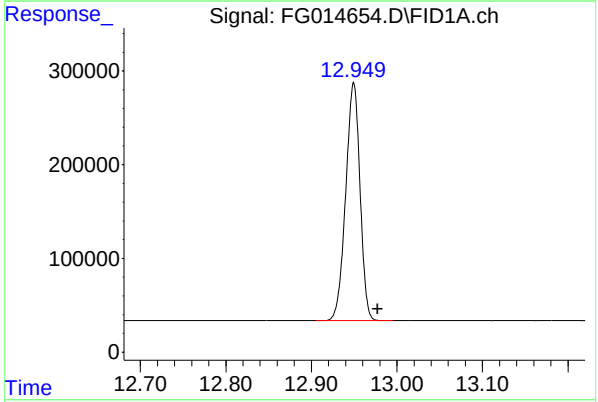
R.T.: 11.637 min
Delta R.T.: -0.028 min
Response: 3092656
Conc: 21.60 ug/ml



#9 ortho-Terphenyl (SURR)

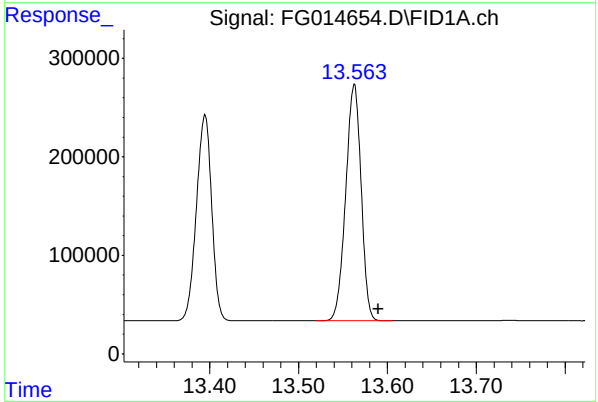
R.T.: 11.955 min
Delta R.T.: -0.029 min
Response: 3259258
Conc: 21.27 ug/ml

Instrument :
FID_G
ClientSampleId :
20 PPM ALIPHATIC HC STD



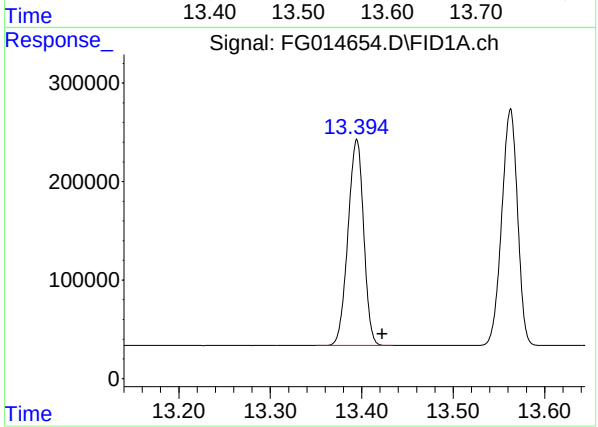
#10 n-Eicosane (C20)

R.T.: 12.950 min
Delta R.T.: -0.028 min
Response: 2953476
Conc: 21.00 ug/ml



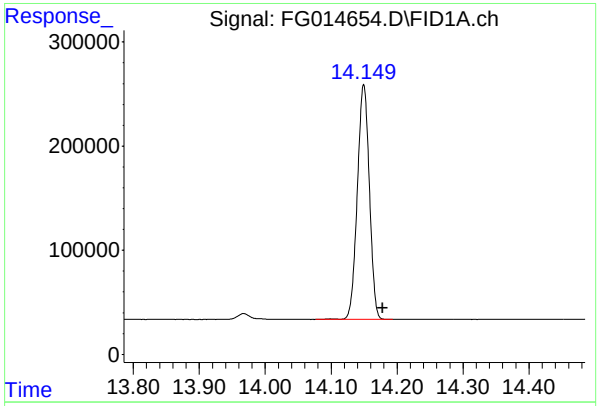
#11 n-Heneicosane (C21)

R.T.: 13.563 min
Delta R.T.: -0.027 min
Response: 2888334
Conc: 20.64 ug/ml



#12 1-chlorooctadecane (SURR)

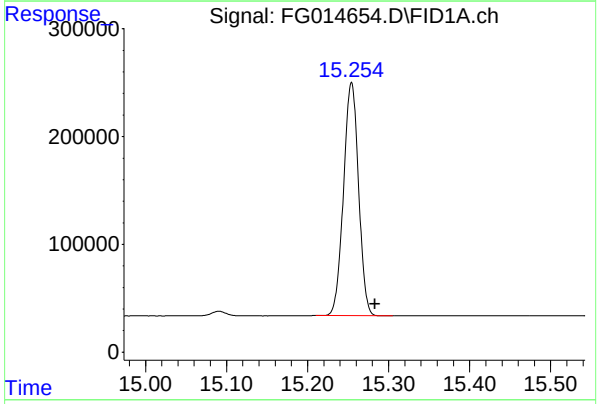
R.T.: 13.395 min
Delta R.T.: -0.028 min
Response: 2492002
Conc: 20.29 ug/ml



#13 n-Docosane (C22)

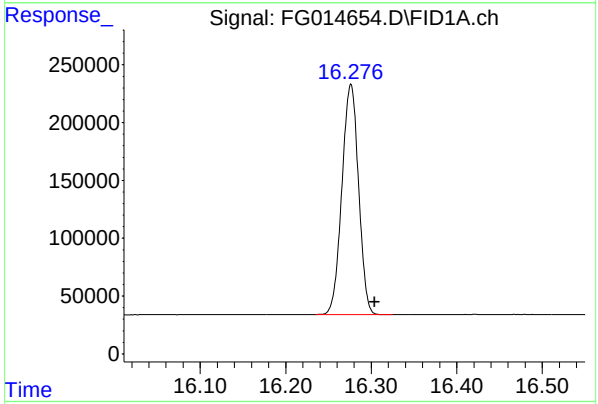
R.T.: 14.149 min
Delta R.T.: -0.029 min
Response: 2864652
Conc: 20.36 ug/ml

Instrument :
FID_G
ClientSampleId :
20 PPM ALIPHATIC HC STD



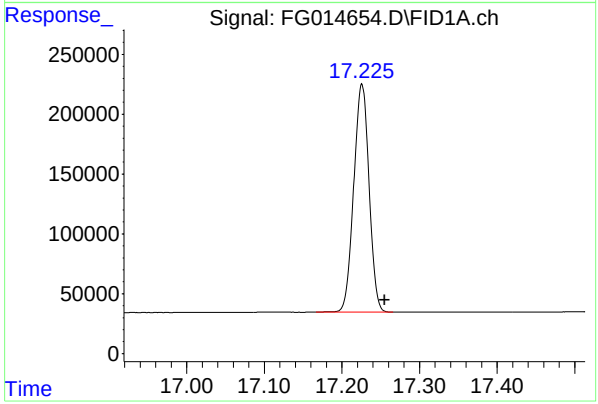
#14 n-Tetracosane (C24)

R.T.: 15.254 min
Delta R.T.: -0.029 min
Response: 2792228
Conc: 19.62 ug/ml



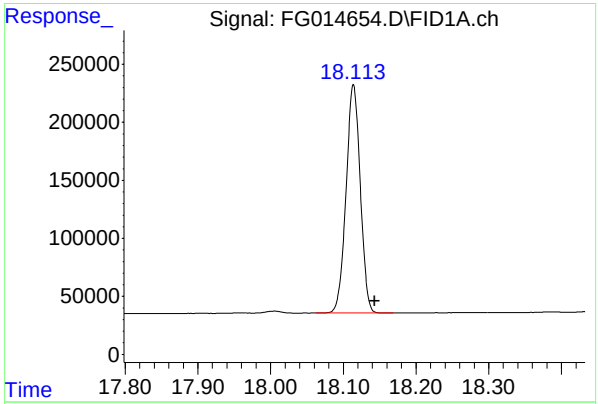
#15 n-Hexacosane (C26)

R.T.: 16.276 min
Delta R.T.: -0.028 min
Response: 2691047
Conc: 19.07 ug/ml



#16 n-Octacosane (C28)

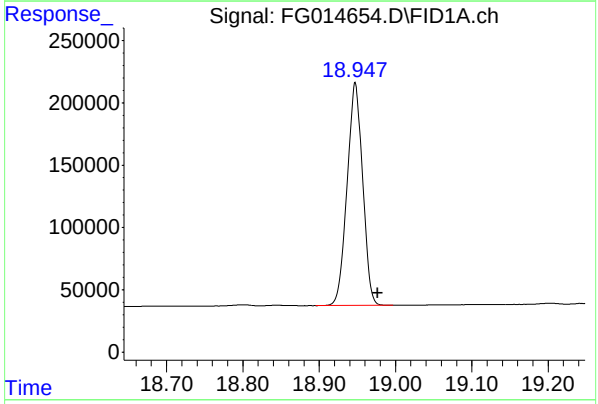
R.T.: 17.226 min
Delta R.T.: -0.029 min
Response: 2615656
Conc: 18.93 ug/ml



#17 n-Tricontane (C30)

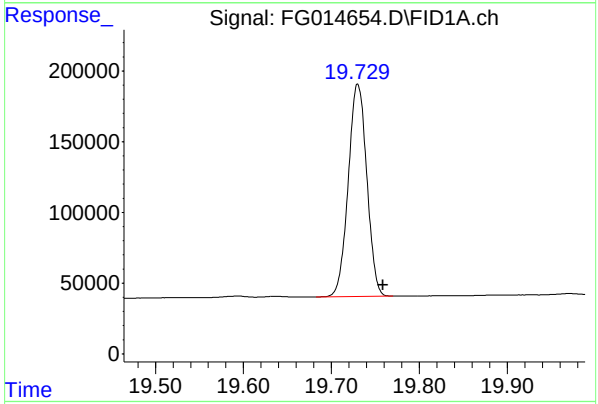
R.T.: 18.114 min
Delta R.T.: -0.029 min
Response: 2667736
Conc: 19.25 ug/ml

Instrument :
FID_G
ClientSampleId :
20 PPM ALIPHATIC HC STD



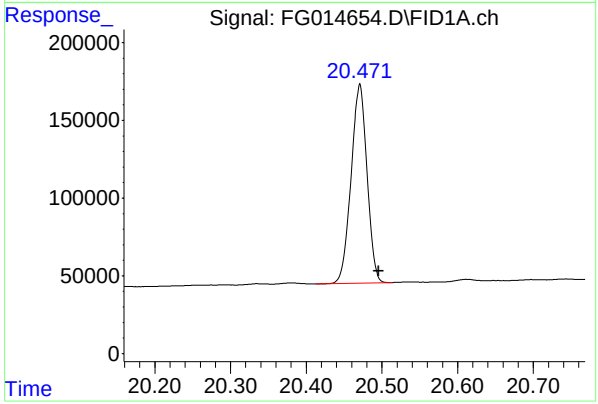
#18 n-Dotriacontane (C32)

R.T.: 18.947 min
Delta R.T.: -0.029 min
Response: 2556314
Conc: 19.53 ug/ml



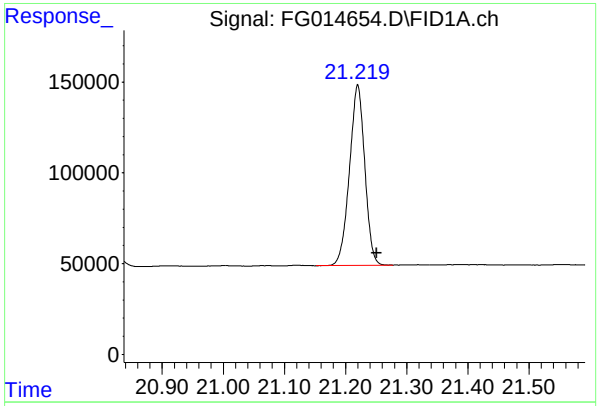
#19 n-Tetratriacontane (C34)

R.T.: 19.730 min
Delta R.T.: -0.029 min
Response: 2203333
Conc: 19.69 ug/ml



#20 n-Hexatriacontane (C36)

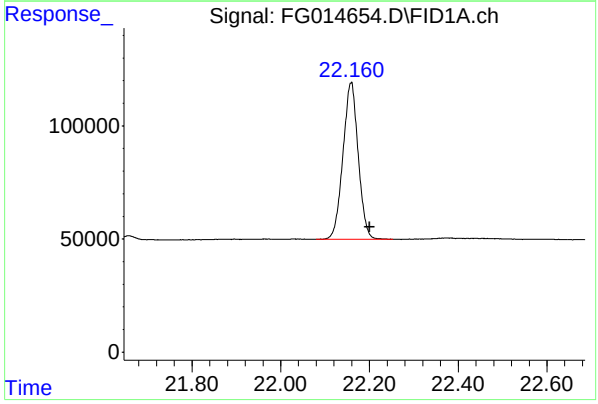
R.T.: 20.471 min
Delta R.T.: -0.024 min
Response: 1871157
Conc: 20.10 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 21.220 min
Delta R.T.: -0.031 min
Response: 1726098
Conc: 20.66 ug/ml

Instrument :
FID_G
ClientSampleId :
20 PPM ALIPHATIC HC STD



#22 n-Tetracontane (C40)

R.T.: 22.159 min
Delta R.T.: -0.041 min
Response: 1653640
Conc: 21.75 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG110424AL\
Data File : FG014654.D
Signal(s) : FID1A.ch
Acq On : 04 Nov 2024 20:11
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 102124.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	3.327	3.298	3.366	BB	300830	2898007	88.92%	4.870%
2	4.578	4.546	4.619	BB	297391	2965281	90.98%	4.983%
3	6.282	6.251	6.317	BB	329149	3181832	97.62%	5.347%
4	6.748	6.716	6.790	BB	305773	3001111	92.08%	5.043%
5	7.380	7.343	7.423	BB	306263	3076578	94.40%	5.170%
6	8.579	8.544	8.610	BB	286179	2984472	91.57%	5.015%
7	10.191	10.143	10.236	BB	276790	3076509	94.39%	5.170%
8	11.637	11.592	11.683	BB	269003	3092656	94.89%	5.197%
9	11.955	11.908	12.000	BB	311876	3259258	100.00%	5.477%
10	12.950	12.905	12.995	BB	254260	2953476	90.62%	4.963%
11	13.395	13.350	13.434	BB	209166	2492002	76.46%	4.187%
12	13.563	13.519	13.606	BB	240209	2888334	88.62%	4.853%
13	14.149	14.077	14.193	BB	225511	2864652	87.89%	4.814%
14	15.254	15.210	15.305	BB	216588	2792228	85.67%	4.692%
15	16.276	16.235	16.325	BB	199351	2691047	82.57%	4.522%
16	17.226	17.167	17.266	BB	190675	2615656	80.25%	4.395%
17	18.114	18.063	18.168	BB	196752	2667736	81.85%	4.483%
18	18.947	18.896	18.997	BB	178666	2556314	78.43%	4.296%
19	19.730	19.683	19.770	BB	150281	2203333	67.60%	3.702%
20	20.471	20.413	20.514	BB	128222	1871157	57.41%	3.144%
21	21.220	21.152	21.278	BB	99680	1726098	52.96%	2.900%
22	22.159	22.080	22.253	BB	69292	1653640	50.74%	2.779%
			Sum of corrected areas:			59511377		

Aliphatic EPH 102124.M Tue Nov 05 01:23:30 2024

Evaluate Continuing Calibration Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG110424AL\
Data File : FG014654.D
Signal(s) : FID1A.ch
Acq On : 04 Nov 2024 20:11
Operator : YP\AJ
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
FID_G
LabSampleId :
20 PPM ALIPHATIC HC STD

Integration File: autoint1.e
Quant Time: Nov 05 00:39:09 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 102124.M
Quant Title : GC Extractables
QLast Update : Tue Oct 22 06:49:54 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)	129.413	144.900 E3	-12.0	113	-0.02
2	T	n-Decane (C10)	131.768	148.264 E3	-12.5	114	-0.02
3	T	A~Naphthalene (C11.7)	143.450	159.092 E3	-10.9	112	-0.02
4	T	n-Dodecane (C12)	132.843	150.056 E3	-13.0	114	-0.02
5	T	A~2-methylnaphthalene (C12.	139.508	153.829 E3	-10.3	111	-0.03
6	T	n-Tetradecane (C14)	132.681	149.224 E3	-12.5	114	-0.03
7	T	n-Hexadecane (C16)	138.963	153.825 E3	-10.7	113	-0.03
8	T	n-Octadecane (C18)	143.158	154.633 E3	-8.0	111	-0.03
9	S	ortho-Terphenyl (SURR)	153.268	162.963 E3	-6.3	108	-0.03
10	T	n-Eicosane (C20)	140.628	147.674 E3	-5.0	109	-0.03
11	T	n-Heneicosane (C21)	139.966	144.417 E3	-3.2	107	-0.03
12	S	1-chlorooctadecane (SURR)	122.791	124.600 E3	-1.5	105	-0.03
13	T	n-Docosane (C22)	140.672	143.233 E3	-1.8	106	-0.03
14	T	n-Tetracosane (C24)	142.295	139.611 E3	1.9	103	-0.03
15	T	n-Hexacosane (C26)	141.151	134.552 E3	4.7	100	-0.03
16	T	n-Octacosane (C28)	138.206	130.783 E3	5.4	100	-0.03
17	T	n-Tricontane (C30)	138.602	133.387 E3	3.8	102	-0.03
18	T	n-Dotriacontane (C32)	130.924	127.816 E3	2.4	103	-0.03
19	T	n-Tetratriacontane (C34)	111.929	110.167 E3	1.6	103	-0.03
20	T	n-Hexatriacontane (C36)	93.076	93.558 E3	-0.5	105	-0.02
21	T	n-Octatriacontane (C38)	83.548	86.305 E3	-3.3	107	-0.03
22	T	n-Tetracontane (C40)	76.043	82.682 E3	-8.7	112	-0.04

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:	Weston Solutions, Inc.	Date Collected:	
Project:	RFP 872	Date Received:	
Client Sample ID:	PB164618BL	SDG No.:	P4620
Lab Sample ID:	PB164618BL	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
11/03/24 08:45	11/05/24 2:59	PB164618

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	FC067621.D
Aliphatic C12-C16	Aliphatic C12-C16	0.24	U	1	0.24	0.67	mg/kg	FC067621.D
Aliphatic C16-C21	Aliphatic C16-C21	0.30	U	1	0.30	1.00	mg/kg	FC067621.D
Aliphatic C21-C28	Aliphatic C21-C28	0.80	U	1	0.80	1.33	mg/kg	FC067621.D
Aliphatic C28-C40	Aliphatic C28-C40	1.80	U	1	1.80	2.00	mg/kg	FC067621.D
Aromatic C10-C12	Aromatic C10-C12	0.30	U	1	0.30	0.67	mg/kg	FD048658.D
Aromatic C12-C16	Aromatic C12-C16	0.34	U	1	0.34	1.00	mg/kg	FD048658.D
Aromatic C16-C21	Aromatic C16-C21	0.96	U	1	0.96	1.67	mg/kg	FD048658.D
Aromatic C21-C36	Aromatic C21-C36	2.00	U	1	2.00	2.67	mg/kg	FD048658.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:	Weston Solutions, Inc.	Date Collected:	
Project:	RFP 872	Date Received:	
Client Sample ID:	PB164618BL	SDG No.:	P4620
Lab Sample ID:	PB164618BL	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
FC067621.D	1	11/03/24	11/05/24	PB164618

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)		32.3		40 - 140	65%	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:	PB164618BL	Acq On:	05 Nov 2024 02:59
Client Sample ID:	PB164618BL	Operator:	YP/AJ
Data file:	FC067621.D	Misc:	
Instrument:	FID_C	ALS Vial:	21
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.171	6.449	0	0	300	ug/ml
Aliphatic C12-C16	6.450	9.838	0	0	200	ug/ml
Aliphatic C16-C21	9.839	13.196	0	0	300	ug/ml
Aliphatic C21-C28	13.197	16.847	0	0	400	ug/ml
Aliphatic C28-C40	16.848	21.685	0	0	600	ug/ml
Aliphatic EPH	3.171	21.685	0	0		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	12.928	12.928	3485381	32.28		ug/ml
Aliphatic C9-C28	3.171	16.847	0	0	1200	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC110424AL\
Data File : FC067621.D
Signal(s) : FID1A.ch
Acq On : 05 Nov 2024 02:59
Operator : YP/AJ
Sample : PB164618BL
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
PB164618BL

Integration File: autoint1.e
Quant Time: Nov 05 03:46:47 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...	12.928	3485381	32.276 ug/ml
Spiked Amount 50.000		Recovery = 64.55%	
Target Compounds			

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

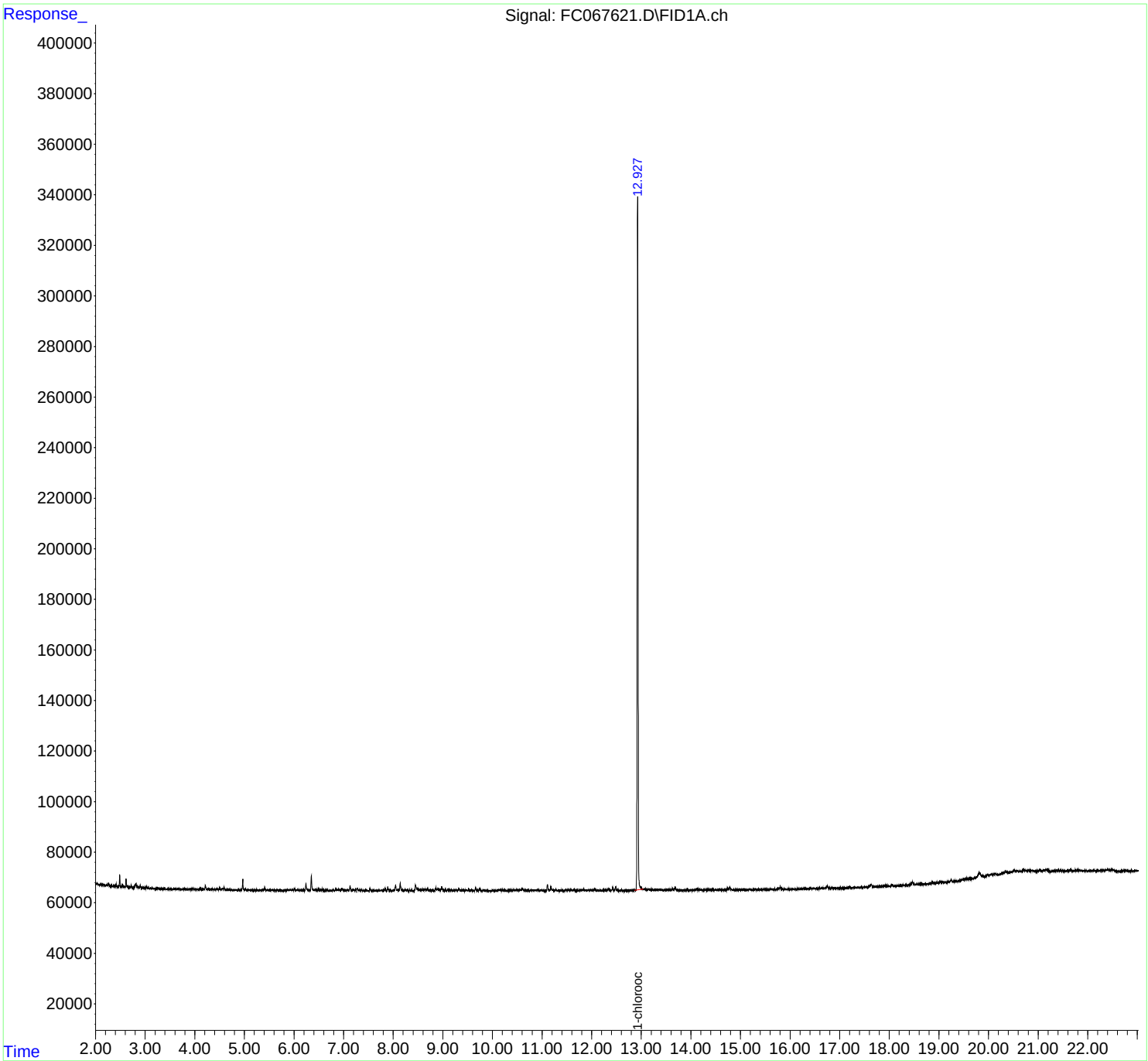
Quantitation Report (QT Reviewed)

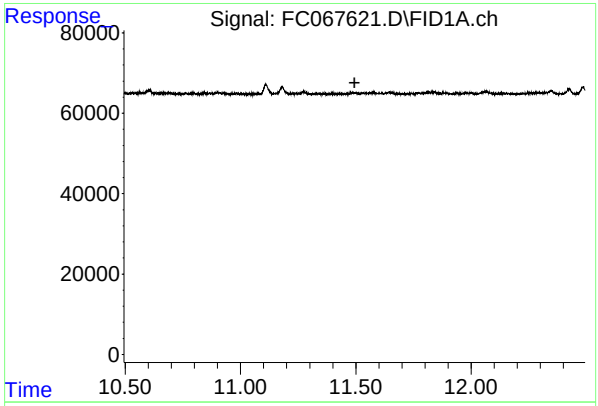
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC110424AL\
Data File : FC067621.D
Signal(s) : FID1A.ch
Acq On : 05 Nov 2024 02:59
Operator : YP/AJ
Sample : PB164618BL
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
PB164618BL

Integration File: autoint1.e
Quant Time: Nov 05 03:46:47 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

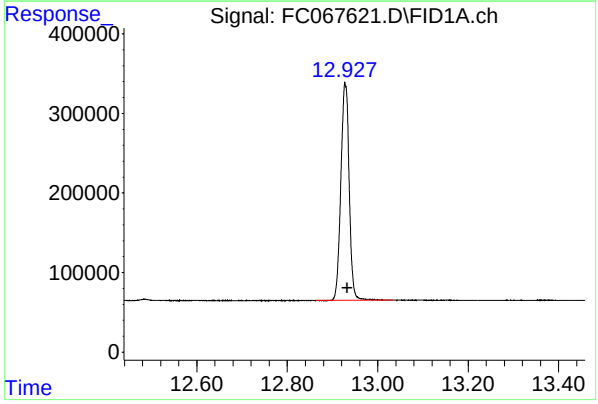




#9 ortho-Terphenyl (SURR)

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

Instrument :
FID_C
ClientSampleId :
PB164618BL



#12 1-chlorooctadecane (SURR)

R.T.: 12.928 min
Delta R.T.: -0.005 min
Response: 3485381
Conc: 32.28 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC110424AL\
Data File : FC067621.D
Signal(s) : FID1A.ch
Acq On : 05 Nov 2024 02:59
Sample : PB164618BL
Misc :
ALS Vial : 21 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	12.928	12.864	13.034	BB	270003	3485381	100.00%	100.000%
			Sum of corrected areas:			3485381		

Aliphatic EPH 102324.M Tue Nov 05 05:30:32 2024

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Report of Analysis

Client:	Weston Solutions, Inc.		Date Collected:		
Project:	RFP 872		Date Received:		
Client Sample ID:	PB164618BL		SDG No.:	P4620	
Lab Sample ID:	PB164618BL		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
FD048658.D	1	11/03/24	11/05/24	PB164618

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)		52.8		40 - 140	106%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)		52.6		40 - 140	105%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)		44.5		40 - 140	89%	SPK: 50

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Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	PB164618BL	Acq On:	05 Nov 2024 02:59
Client Sample ID:	PB164618BL	Operator:	YP/AJ
Data file:	FD048658.D	Misc:	
Instrument:	FID_D	ALS Vial:	71
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic EPH	4.093	18.080	0	0		ug/ml
2-Bromonaphthalene (SURR)	7.370	7.370	8006936	52.75		ug/ml
2-Flurobiphenyl (SURR)	8.219	8.219	5168849	52.64		ug/ml
ortho-Terphenyl (SURR)	11.256	11.256	7572955	44.46		ug/ml
Aromatic C10-C12	4.093	5.811	0	0	200	ug/ml
Aromatic C12-C16	5.812	8.416	0	0	300	ug/ml
Aromatic C16-C21	8.417	12.676	0	0	500	ug/ml
Aromatic C21-C36	12.677	18.080	0	0	800	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD110424AR\
Data File : FD048658.D
Signal(s) : FID2B.ch
Acq On : 05 Nov 2024 02:59
Operator : YP/AJ
Sample : PB164618BL
Misc :
ALS Vial : 71 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
PB164618BL

Integration File: autoint1.e
Quant Time: Nov 05 05:20:37 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	8006936	52.754 ug/ml
Spiked Amount 50.000		Recovery = 105.51%	
6) S 2-Flurobiphenyl (SURR)	8.219	5168849	52.640 ug/ml
Spiked Amount 50.000 Range 0 - 131		Recovery = 105.28%	
11) S ortho-Terphenyl (SURR)	11.256	7572955	44.458 ug/ml
Spiked Amount 50.000		Recovery = 88.92%	
Target Compounds			

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

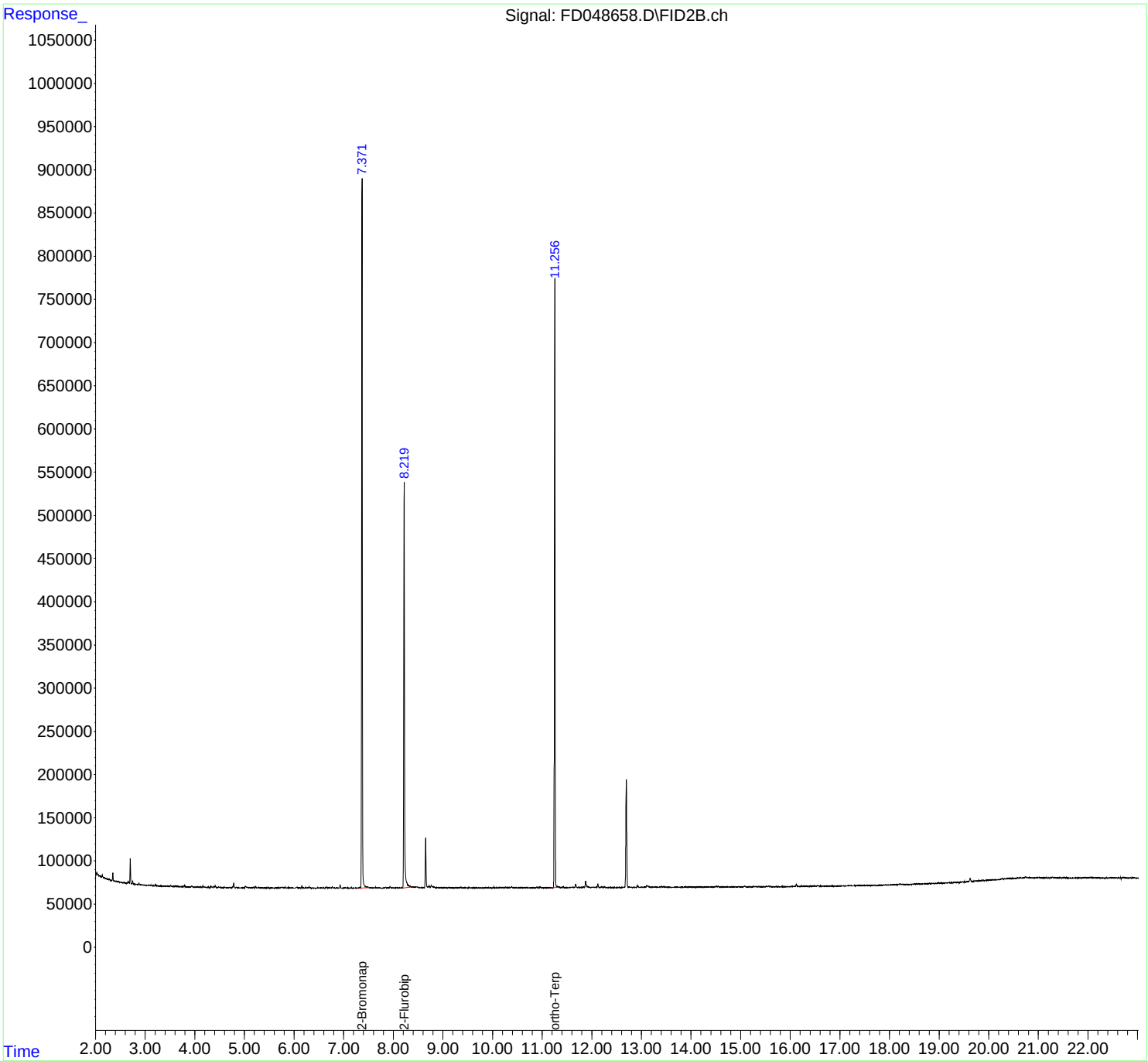
Quantitation Report (QT Reviewed)

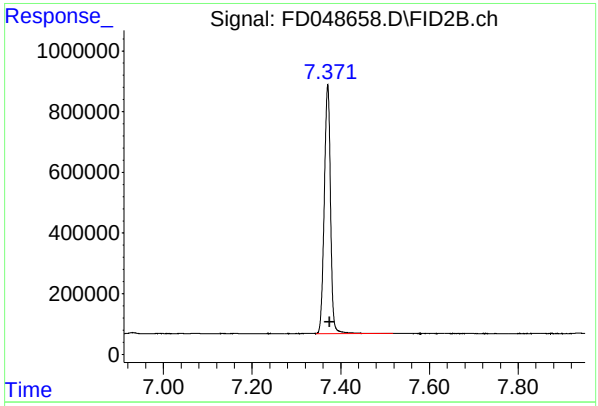
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD110424AR\
Data File : FD048658.D
Signal(s) : FID2B.ch
Acq On : 05 Nov 2024 02:59
Operator : YP/AJ
Sample : PB164618BL
Misc :
ALS Vial : 71 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
PB164618BL

Integration File: autoint1.e
Quant Time: Nov 05 05:20:37 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

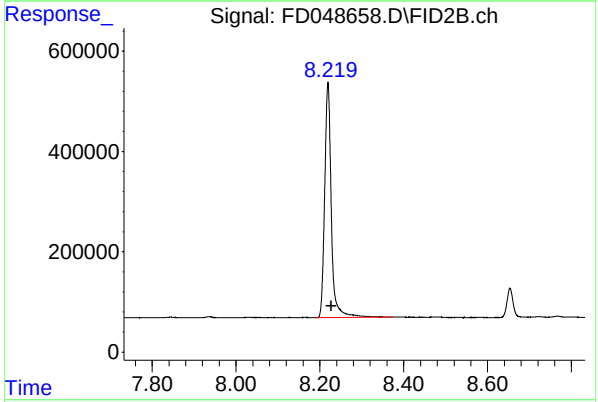




#4 2-Bromonaphthalene (SURR)

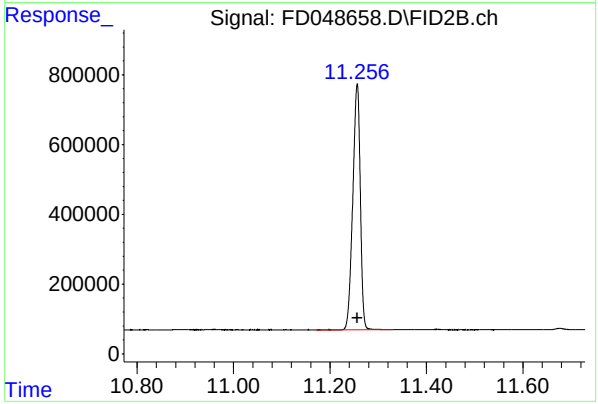
R.T.: 7.370 min
Delta R.T.: -0.004 min
Response: 8006936
Conc: 52.75 ug/ml

Instrument :
FID_D
ClientSampleId :
PB164618BL



#6 2-Flurobiphenyl (SURR)

R.T.: 8.219 min
Delta R.T.: -0.009 min
Response: 5168849
Conc: 52.64 ug/ml



#11 ortho-Terphenyl (SURR)

R.T.: 11.256 min
Delta R.T.: 0.000 min
Response: 7572955
Conc: 44.46 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD110424AR\
Data File : FD048658.D
Signal(s) : FID2B.ch
Acq On : 05 Nov 2024 02:59
Sample : PB164618BL
Misc :
ALS Vial : 71 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	7.370	7.344	7.518	VB	823386	8006936	100.00%	38.590%
2	8.219	8.191	8.374	PV	467913	5168849	64.55%	24.912%
3	11.256	11.171	11.330	BV	714905	7572955	94.58%	36.498%
			Sum of corrected areas:			20748741		

Aromatic EPH 102324.M Tue Nov 05 05:22:31 2024

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Report of Analysis

Client:	Weston Solutions, Inc.		Date Collected:		
Project:	RFP 872		Date Received:		
Client Sample ID:	PB164637BL		SDG No.:	P4620	
Lab Sample ID:	PB164637BL		Matrix:	Water	
Analytical Method:	NJEPH		% Solid:	0	
Sample Wt/Vol:	1000 Units:	mL	Final Vol:	2000	uL
Soil Aliquot Vol:		uL	Test:	EPH	
Prep Method :	SW3510				

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FG014650.D	1	11/03/24	11/04/24	PB164637

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C12	Aliphatic C9-C12	5.76	U	5.76	30.0	ug/l
Aliphatic C12-C16	Aliphatic C12-C16	3.61	U	3.61	20.0	ug/l
Aliphatic C16-C21	Aliphatic C16-C21	5.14	U	5.14	30.0	ug/l
Aliphatic C21-C28	Aliphatic C21-C28	8.97	U	8.97	40.0	ug/l
Aliphatic C28-C40	Aliphatic C28-C40	17.0	U	17.0	60.0	ug/l
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	40.2		40 - 140	80%	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:	PB164637BL	Acq On:	04 Nov 2024 18:18
Client Sample ID:	PB164637BL	Operator:	YP\AJ
Data file:	FG014650.D	Misc:	
Instrument:	FID_G	ALS Vial:	25
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.228	6.849	0	0	300	ug/ml
Aliphatic C12-C16	6.850	10.292	0	0	200	ug/ml
Aliphatic C16-C21	10.293	13.665	0	0	300	ug/ml
Aliphatic C21-C28	13.666	17.329	0	0	400	ug/ml
Aliphatic C28-C40	17.330	22.266	0	0	600	ug/ml
Aliphatic EPH	3.228	22.266	0	0		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	13.397	13.397	4931901	40.16		ug/ml
Aliphatic C9-C28	3.228	17.329	0	0	1200	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG110424AL\
Data File : FG014650.D
Signal(s) : FID1A.ch
Acq On : 04 Nov 2024 18:18
Operator : YP\AJ
Sample : PB164637BL
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
PB164637BL

Integration File: autoint1.e
Quant Time: Nov 05 00:38:28 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 102124.M
Quant Title : GC Extractables
QLast Update : Tue Oct 22 06:49:54 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...	13.397	4931901	40.165 ug/ml
Spiked Amount 50.000		Recovery = 80.33%	
Target Compounds			

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

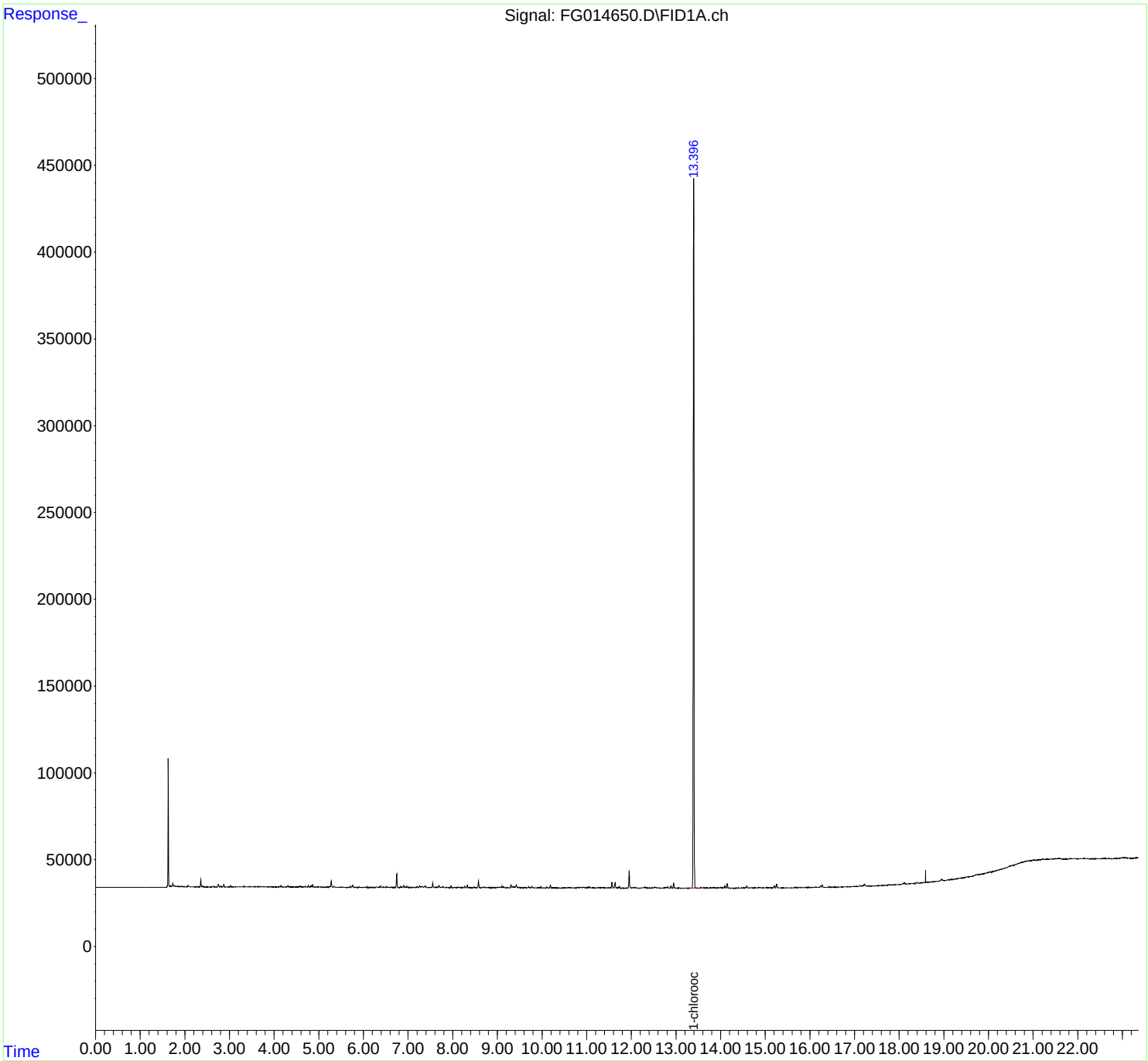
Quantitation Report (QT Reviewed)

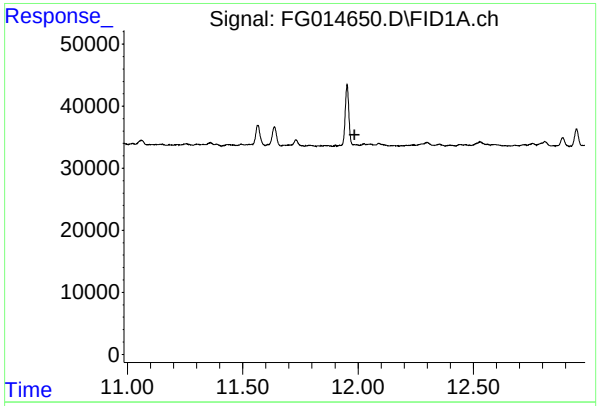
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG110424AL\
Data File : FG014650.D
Signal(s) : FID1A.ch
Acq On : 04 Nov 2024 18:18
Operator : YP\AJ
Sample : PB164637BL
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
PB164637BL

Integration File: autoint1.e
Quant Time: Nov 05 00:38:28 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 102124.M
Quant Title : GC Extractables
QLast Update : Tue Oct 22 06:49:54 2024
Response via : Initial Calibration
Integrator: ChemStation

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

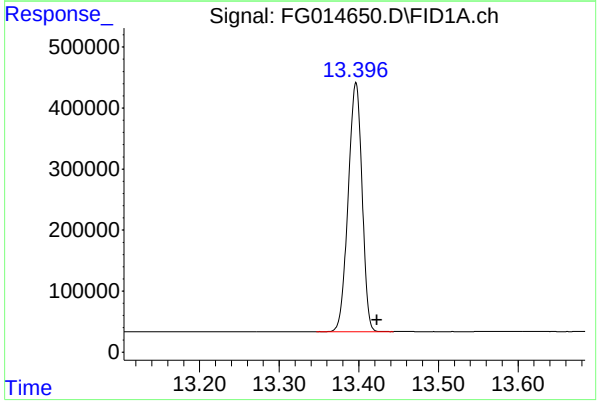




#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.984 min
Response: 0
Conc: N.D.

Instrument :
FID_G
ClientSampleId :
PB164637BL



#12 1-chlorooctadecane (SURR)

R.T.: 13.397 min
Delta R.T.: -0.026 min
Response: 4931901
Conc: 40.16 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG110424AL\
Data File : FG014650.D
Signal(s) : FID1A.ch
Acq On : 04 Nov 2024 18:18
Sample : PB164637BL
Misc :
ALS Vial : 25 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 102124.M
Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	13.397	13.347	13.443	BB	408326	4931901	100.00%	100.000%
			Sum of corrected areas:			4931901		

Aliphatic EPH 102124.M Tue Nov 05 01:20:48 2024

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Fax : 908 789 8922

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	
Project:	RFP 872	Date Received:	
Client Sample ID:	PB164637BL	SDG No.:	P4620
Lab Sample ID:	PB164637BL	Matrix:	Water
Analytical Method:	NJEPH	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :	SW3510		

Prep Date :	Date Analyzed :	Prep Batch ID
11/03/24 08:20	11/04/24 18:18	PB164637

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	5.76	U	1	5.76	30.0	ug/l	FG014650.D
Aliphatic C12-C16	Aliphatic C12-C16	3.61	U	1	3.61	20.0	ug/l	FG014650.D
Aliphatic C16-C21	Aliphatic C16-C21	5.14	U	1	5.14	30.0	ug/l	FG014650.D
Aliphatic C21-C28	Aliphatic C21-C28	8.97	U	1	8.97	40.0	ug/l	FG014650.D
Aliphatic C28-C40	Aliphatic C28-C40	17.0	U	1	17.0	60.0	ug/l	FG014650.D
Aromatic C10-C12	Aromatic C10-C12	3.32	U	1	3.32	20.0	ug/l	FF014920.D
Aromatic C12-C16	Aromatic C12-C16	3.69	U	1	3.69	30.0	ug/l	FF014920.D
Aromatic C16-C21	Aromatic C16-C21	12.7	U	1	12.7	50.0	ug/l	FF014920.D
Aromatic C21-C36	Aromatic C21-C36	25.2	U	1	25.2	80.0	ug/l	FF014920.D
Total AliphaticEPH	Total AliphaticEPH	40.5	U		40.5	180	ug/l	
Total AromaticEPH	Total AromaticEPH	44.9	U		44.9	180	ug/l	
Total EPH	Total EPH	85.4	U		85.4	360	ug/l	

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

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

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Fax : 908 789 8922

Report of Analysis

Client:	Weston Solutions, Inc.			Date Collected:	
Project:	RFP 872			Date Received:	
Client Sample ID:	PB164637BL			SDG No.:	P4620
Lab Sample ID:	PB164637BL			Matrix:	Water
Analytical Method:	NJEPH			% Solid:	0
Sample Wt/Vol:	1000	Units:	mL	Final Vol:	2000 uL
Soil Aliquot Vol:			uL	Test:	EPH
Prep Method :	SW3510				

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FF014920.D	1	11/03/24	11/04/24	PB164637

CAS Number	Parameter		Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
Aromatic C10-C12	Aromatic C10-C12		3.32	U	3.32	20.0	ug/l
Aromatic C12-C16	Aromatic C12-C16		3.69	U	3.69	30.0	ug/l
Aromatic C16-C21	Aromatic C16-C21		12.7	U	12.7	50.0	ug/l
Aromatic C21-C36	Aromatic C21-C36		25.2	U	25.2	80.0	ug/l
SURROGATES							
580-13-2	2-Bromonaphthalene (SURR)		45.0		40 - 140	90%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)		44.8		40 - 140	90%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)		37.2		40 - 140	74%	SPK: 50

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Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	PB164637BL	Acq On:	04 Nov 2024 18:18
Client Sample ID:	PB164637BL	Operator:	YP\AJ
Data file:	FF014920.D	Misc:	
Instrument:	FID_F	ALS Vial:	75
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.508	6.372	0	0	200	ug/ml
Aromatic C12-C16	6.373	9.064	0	0	300	ug/ml
Aromatic C16-C21	9.065	13.375	0	0	500	ug/ml
Aromatic C21-C36	13.376	18.817	0	0	800	ug/ml
Aromatic EPH	4.508	18.817	0	0		ug/ml
2-Bromonaphthalene (SURR)	7.992	7.992	6270178	44.97		ug/ml
2-Flurobiphenyl (SURR)	8.865	8.865	4223099	44.78		ug/ml
ortho-Terphenyl (SURR)	11.927	11.927	5949517	37.19		ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF110424AR\
Data File : FF014920.D
Signal(s) : FID2B.ch
Acq On : 04 Nov 2024 18:18
Operator : YP\AJ
Sample : PB164637BL
Misc :
ALS Vial : 75 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
PB164637BL

Integration File: autoint1.e
Quant Time: Nov 05 01:27:38 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 102124.M
Quant Title : GC Extractables
QLast Update : Tue Oct 22 04:14:53 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...	7.992	6270178	44.965 ug/ml
Spiked Amount 50.000		Recovery =	89.93%
6) S 2-Flurobiphenyl (SURR)	8.865	4223099	44.779 ug/ml
Spiked Amount 50.000 Range	0 - 131	Recovery =	89.56%
11) S ortho-Terphenyl (SURR)	11.927	5949517	37.190 ug/ml
Spiked Amount 50.000		Recovery =	74.38%
Target Compounds			

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

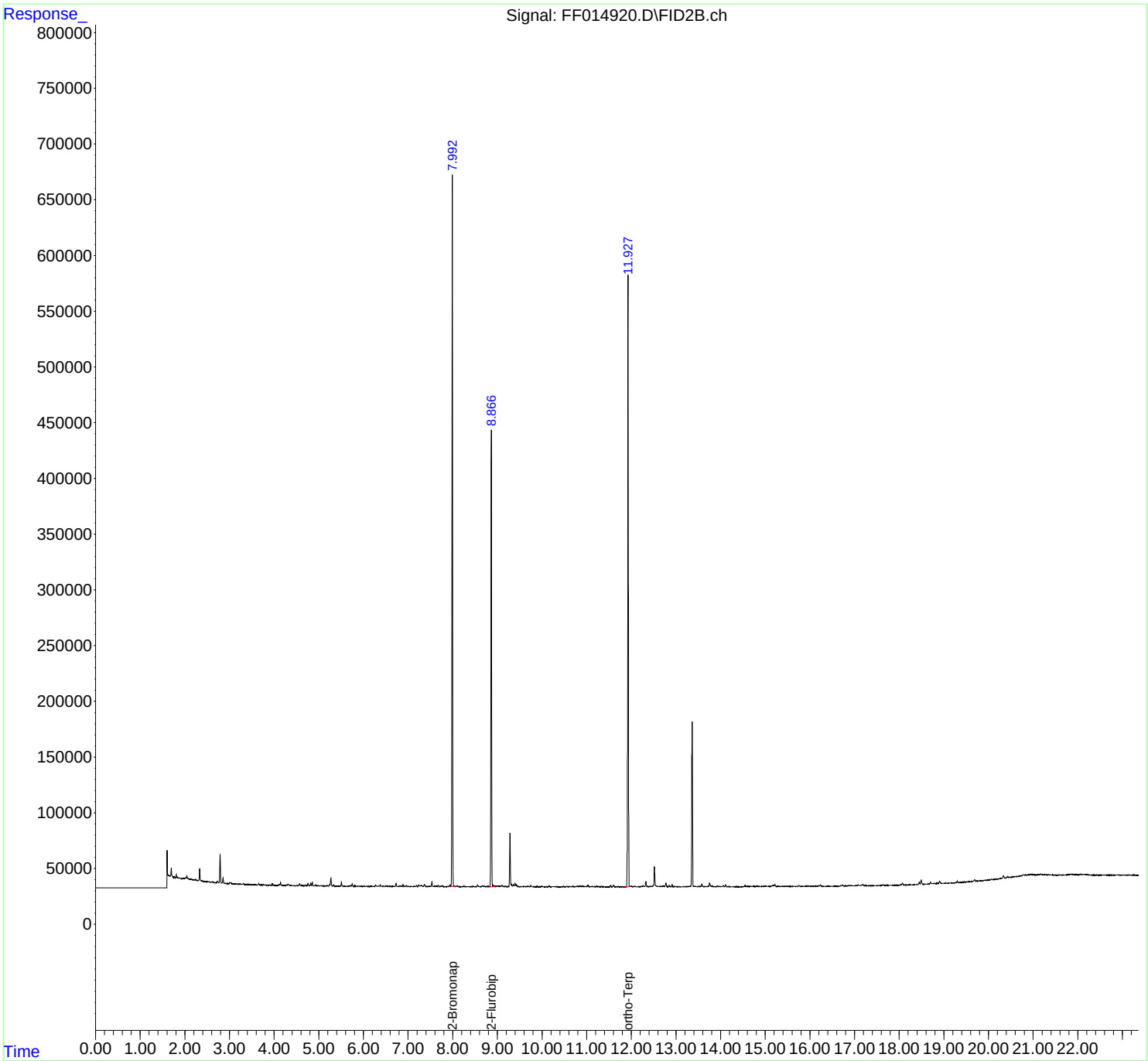
Quantitation Report (QT Reviewed)

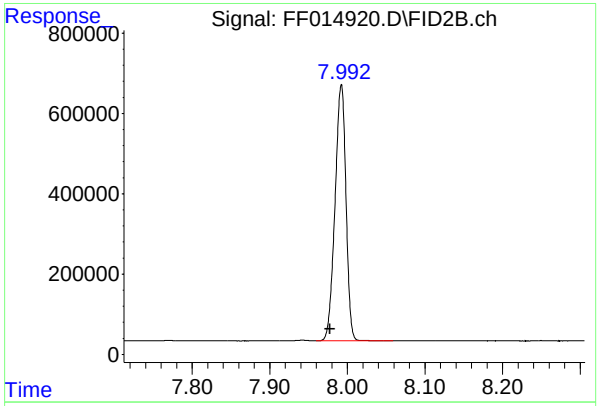
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF110424AR\
Data File : FF014920.D
Signal(s) : FID2B.ch
Acq On : 04 Nov 2024 18:18
Operator : YP\AJ
Sample : PB164637BL
Misc :
ALS Vial : 75 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
PB164637BL

Integration File: autoint1.e
Quant Time: Nov 05 01:27:38 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 102124.M
Quant Title : GC Extractables
QLast Update : Tue Oct 22 04:14:53 2024
Response via : Initial Calibration
Integrator: ChemStation

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

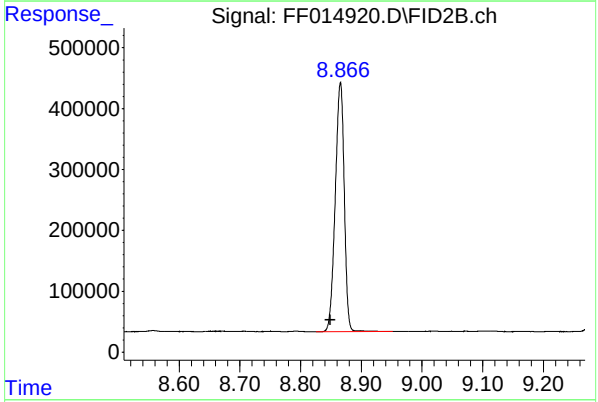




#4 2-Bromonaphthalene (SURR)

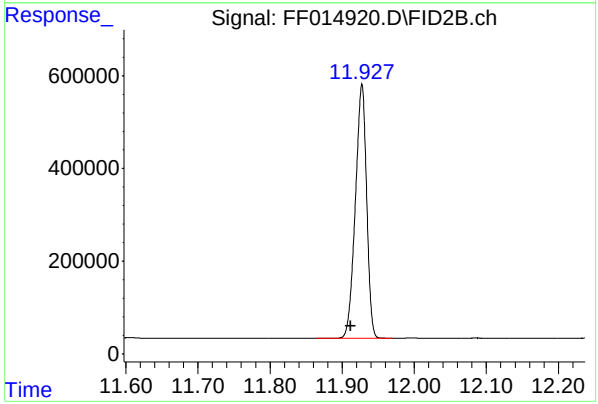
R.T.: 7.992 min
Delta R.T.: 0.014 min
Response: 6270178
Conc: 44.97 ug/ml

Instrument :
FID_F
ClientSampleId :
PB164637BL



#6 2-Flurobiphenyl (SURR)

R.T.: 8.865 min
Delta R.T.: 0.017 min
Response: 4223099
Conc: 44.78 ug/ml



#11 ortho-Terphenyl (SURR)

R.T.: 11.927 min
Delta R.T.: 0.015 min
Response: 5949517
Conc: 37.19 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF110424AR\
Data File : FF014920.D
Signal(s) : FID2B.ch
Acq On : 04 Nov 2024 18:18
Sample : PB164637BL
Misc :
ALS Vial : 75 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 102124.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	7.992	7.960	8.059	PV	638322	6270178	100.00%	38.133%
2	8.865	8.825	8.952	BV	409216	4223099	67.35%	25.684%
3	11.927	11.864	11.970	BV	548039	5949517	94.89%	36.183%
			Sum of corrected areas:			16442794		

Aromatic EPH 102124.M Tue Nov 05 02:02:25 2024

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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.

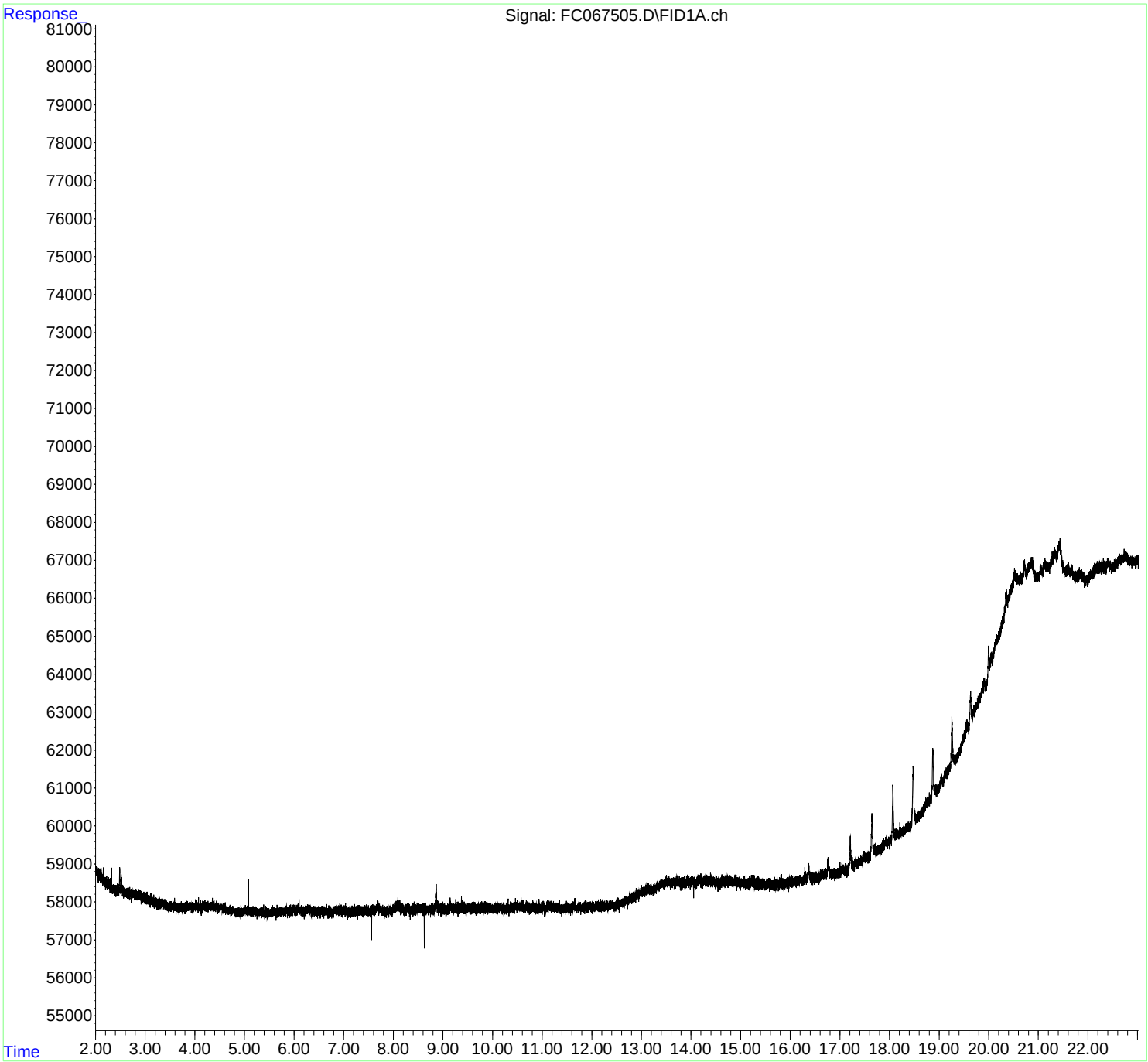
Quantitation Report (QT Reviewed)

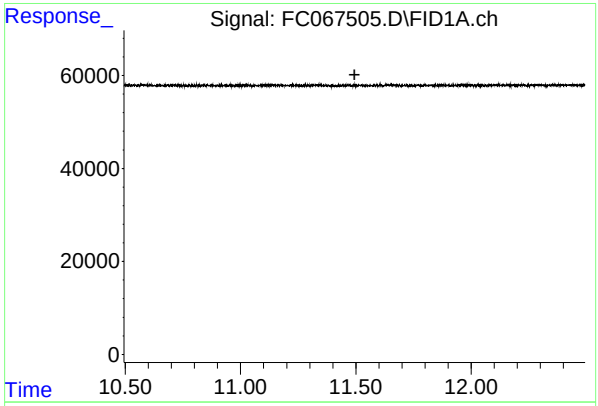
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC102324AL\
Data File : FC067505.D
Signal(s) : FID1A.ch
Acq On : 23 Oct 2024 14:35
Operator : YP/AJ
Sample : I.BLK
Misc :
ALS Vial : 1 Sample Multiplier: 1

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

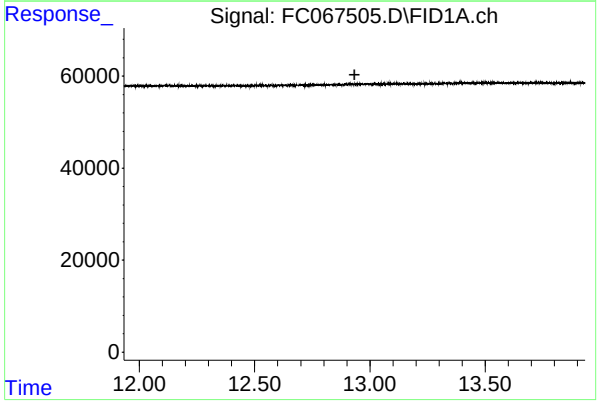




#9 ortho-Terphenyl (SURR)

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

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Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	I.BLK	Acq On:	04 Nov 2024 09:52
Client Sample ID:	I.BLK	Operator:	YP/AJ
Data file:	FC067602.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	3.171	6.449	0	0	300	ug/ml
Aliphatic C12-C16	6.450	9.838	0	0	200	ug/ml
Aliphatic C16-C21	9.839	13.196	0	0	300	ug/ml
Aliphatic C21-C28	13.197	16.847	0	0	400	ug/ml
Aliphatic C28-C40	16.848	21.685	0	0	600	ug/ml
Aliphatic EPH	3.171	21.685	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	3.171	16.847	0	0	1200	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC110424AL\
Data File : FC067602.D
Signal(s) : FID1A.ch
Acq On : 04 Nov 2024 09:52
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: Nov 05 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

Target Compounds

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

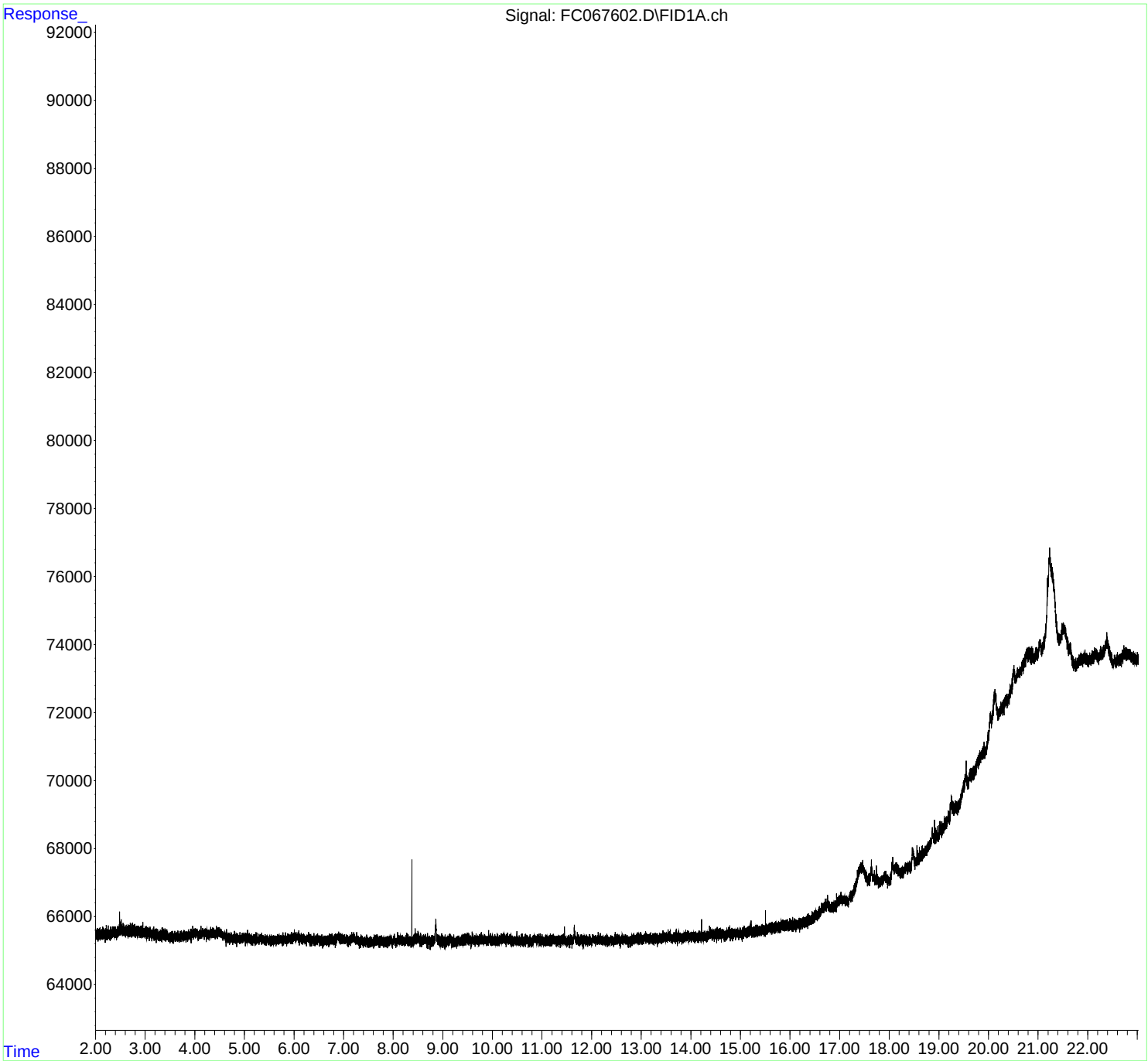
Quantitation Report (QT Reviewed)

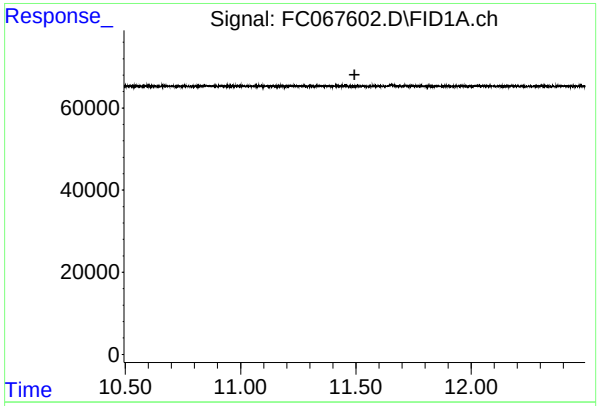
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC110424AL\
Data File : FC067602.D
Signal(s) : FID1A.ch
Acq On : 04 Nov 2024 09:52
Operator : YP/AJ
Sample : I.BLK
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
I.BLK

Integration File: autoint1.e
Quant Time: Nov 05 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

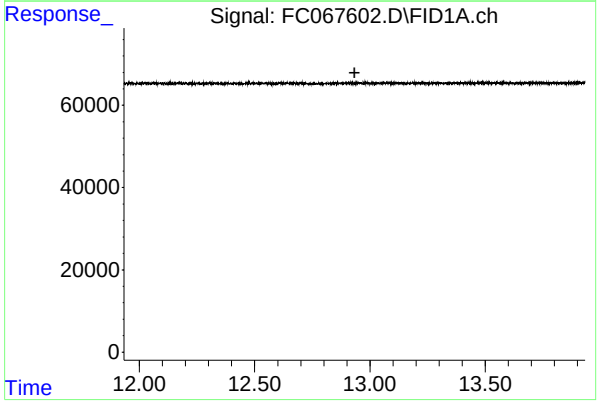




#9 ortho-Terphenyl (SURR)

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\FC110424AL\
Data File : FC067602.D
Signal(s) : FID1A.ch
Acq On : 04 Nov 2024 09:52
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 Nov 05 05:26:25 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:	05 Nov 2024 01:46
Client Sample ID:	I.BLK	Operator:	YP/AJ
Data file:	FC067619.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	3.171	6.449	0	0	300	ug/ml
Aliphatic C12-C16	6.450	9.838	0	0	200	ug/ml
Aliphatic C16-C21	9.839	13.196	0	0	300	ug/ml
Aliphatic C21-C28	13.197	16.847	0	0	400	ug/ml
Aliphatic C28-C40	16.848	21.685	0	0	600	ug/ml
Aliphatic EPH	3.171	21.685	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	3.171	16.847	0	0	1200	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC110424AL\
Data File : FC067619.D
Signal(s) : FID1A.ch
Acq On : 05 Nov 2024 01:46
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: Nov 05 03:46:26 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.

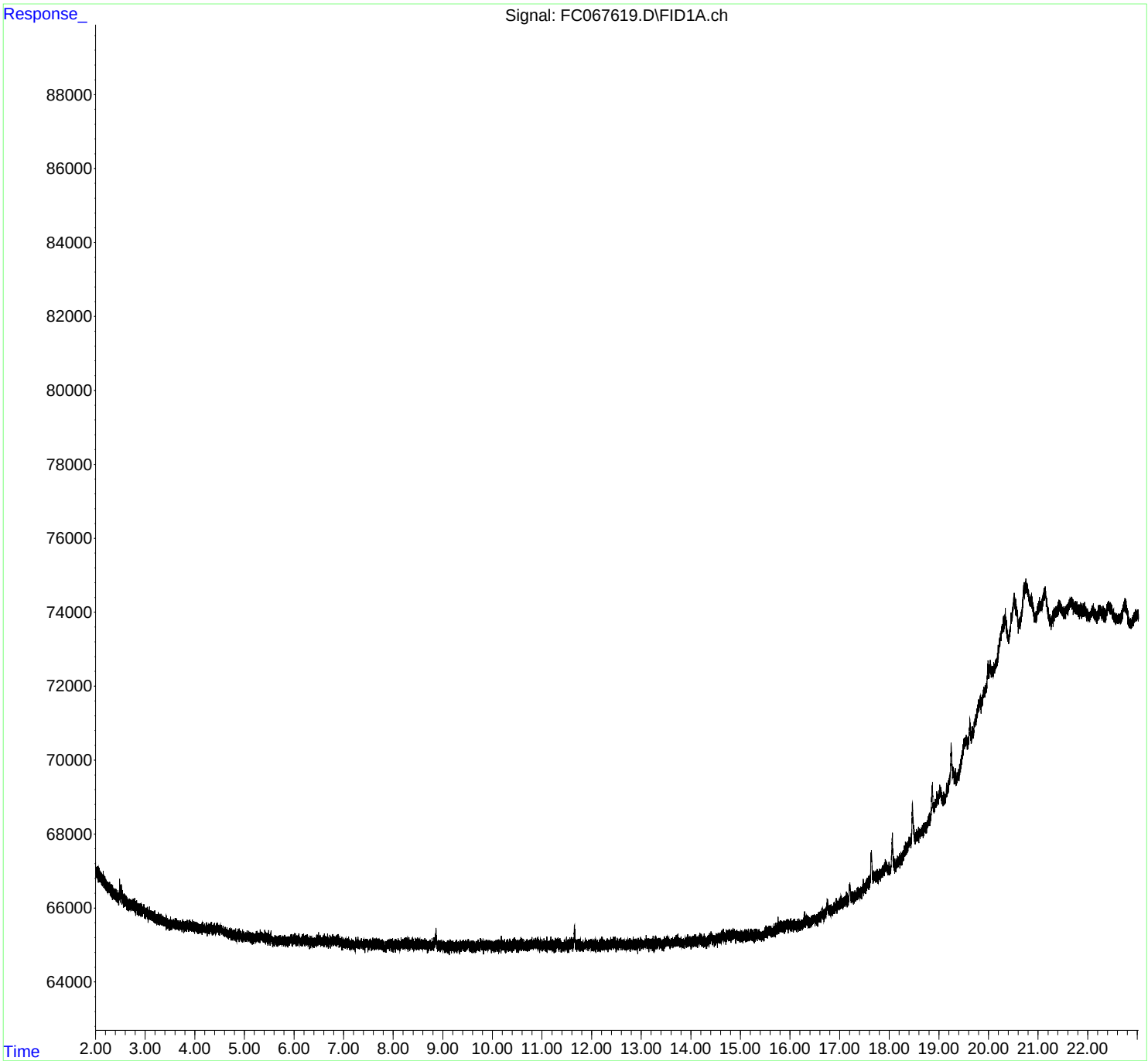
Quantitation Report (QT Reviewed)

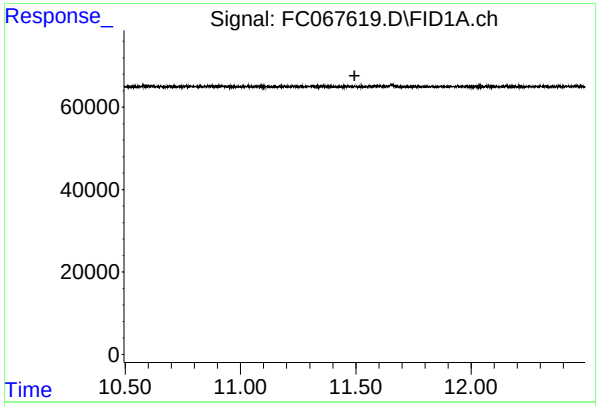
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC110424AL\
Data File : FC067619.D
Signal(s) : FID1A.ch
Acq On : 05 Nov 2024 01:46
Operator : YP/AJ
Sample : I.BLK
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
I.BLK

Integration File: autoint1.e
Quant Time: Nov 05 03:46:26 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

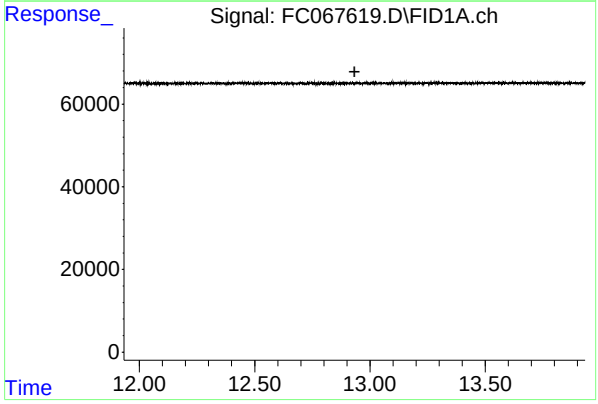




#9 ortho-Terphenyl (SURR)

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\FC110424AL\
Data File : FC067619.D
Signal(s) : FID1A.ch
Acq On : 05 Nov 2024 01:46
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 Nov 05 05:29:42 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:	05 Nov 2024 04:48
Client Sample ID:	I.BLK	Operator:	YP/AJ
Data file:	FC067624.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	3.171	6.449	0	0	300	ug/ml
Aliphatic C12-C16	6.450	9.838	0	0	200	ug/ml
Aliphatic C16-C21	9.839	13.196	0	0	300	ug/ml
Aliphatic C21-C28	13.197	16.847	0	0	400	ug/ml
Aliphatic C28-C40	16.848	21.685	0	0	600	ug/ml
Aliphatic EPH	3.171	21.685	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	3.171	16.847	0	0	1200	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC110424AL\
Data File : FC067624.D
Signal(s) : FID1A.ch
Acq On : 05 Nov 2024 04:48
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: Nov 05 05:25:28 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.

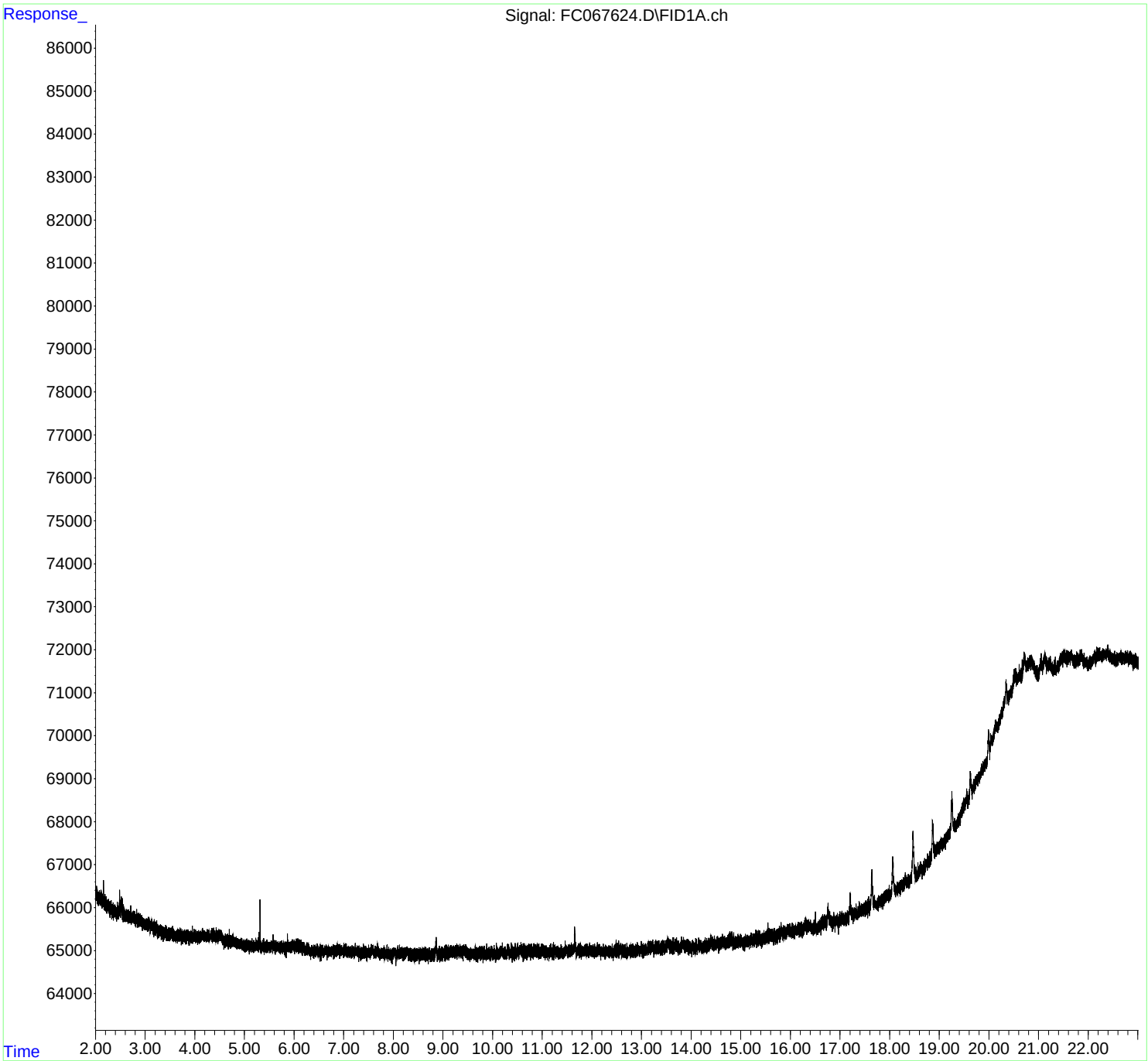
Quantitation Report (QT Reviewed)

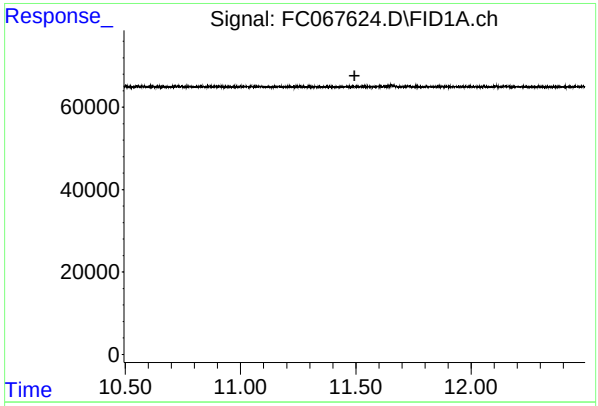
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC110424AL\
Data File : FC067624.D
Signal(s) : FID1A.ch
Acq On : 05 Nov 2024 04:48
Operator : YP/AJ
Sample : I.BLK
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
I.BLK

Integration File: autoint1.e
Quant Time: Nov 05 05:25:28 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

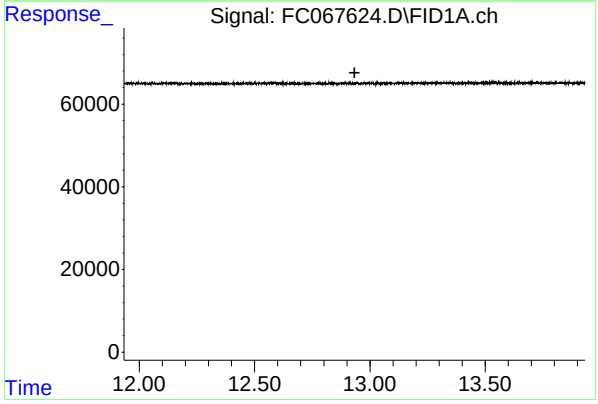




#9 ortho-Terphenyl (SURR)

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\FC110424AL\
Data File : FC067624.D
Signal(s) : FID1A.ch
Acq On : 05 Nov 2024 04:48
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 Nov 05 05:31:04 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:	05 Nov 2024 11:07
Client Sample ID:	I.BLK	Operator:	YP/AJ
Data file:	FC067629.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	3.171	6.449	0	0	300	ug/ml
Aliphatic C12-C16	6.450	9.838	0	0	200	ug/ml
Aliphatic C16-C21	9.839	13.196	0	0	300	ug/ml
Aliphatic C21-C28	13.197	16.847	0	0	400	ug/ml
Aliphatic C28-C40	16.848	21.685	0	0	600	ug/ml
Aliphatic EPH	3.171	21.685	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	3.171	16.847	0	0	1200	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC110424AL\
Data File : FC067629.D
Signal(s) : FID1A.ch
Acq On : 05 Nov 2024 11:07
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: Nov 05 15:47:44 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

Target Compounds

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

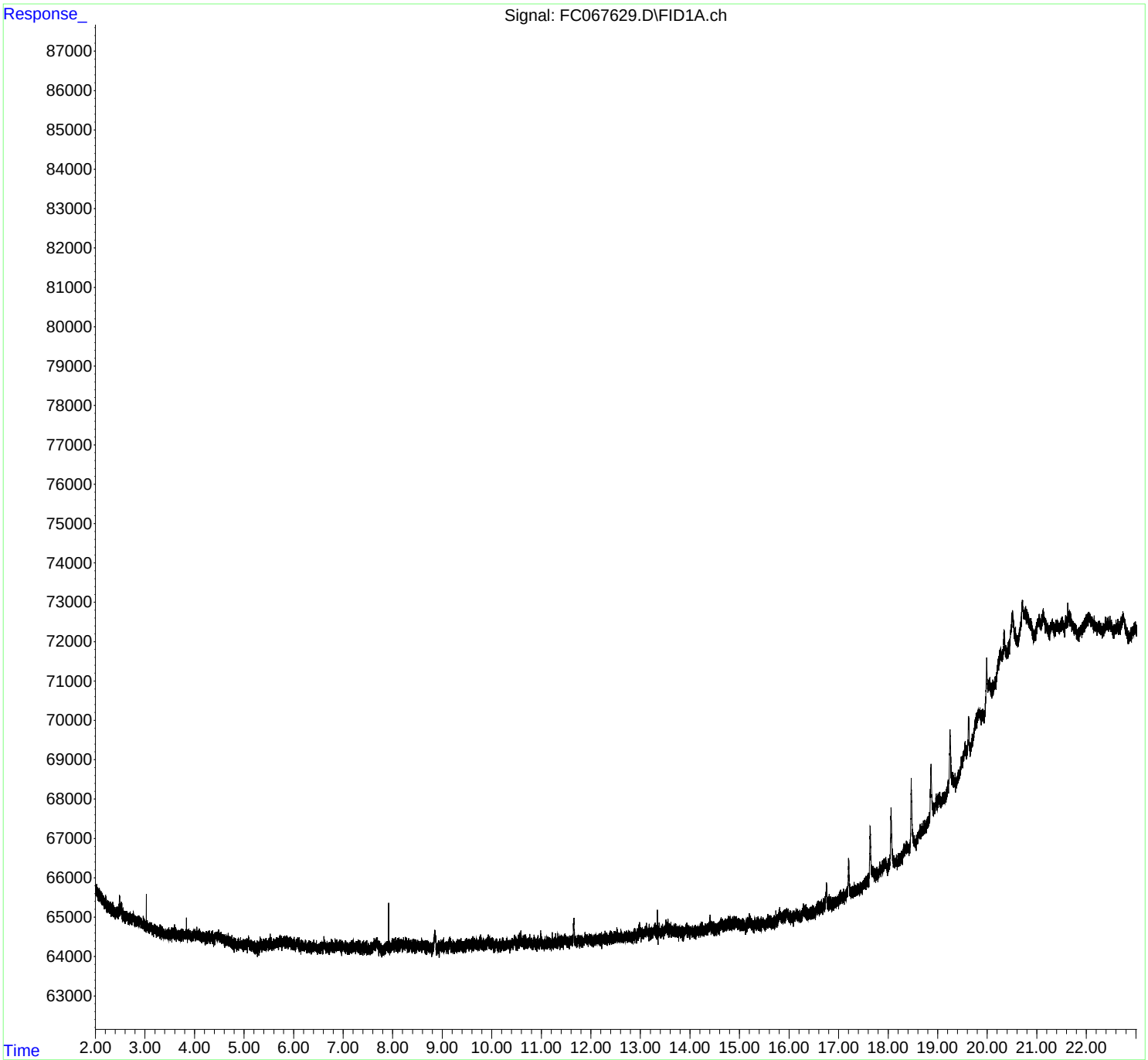
Quantitation Report (QT Reviewed)

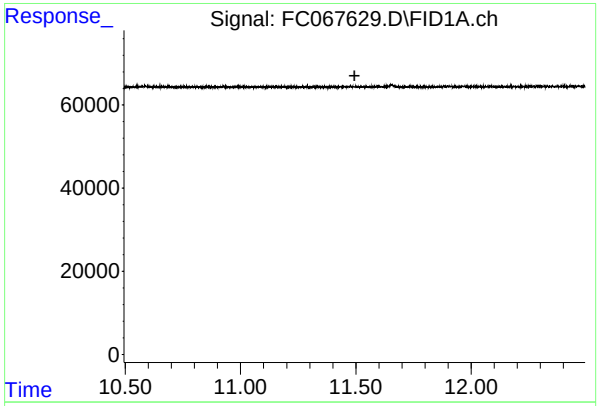
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC110424AL\
Data File : FC067629.D
Signal(s) : FID1A.ch
Acq On : 05 Nov 2024 11:07
Operator : YP/AJ
Sample : I.BLK
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
I.BLK

Integration File: autoint1.e
Quant Time: Nov 05 15:47:44 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

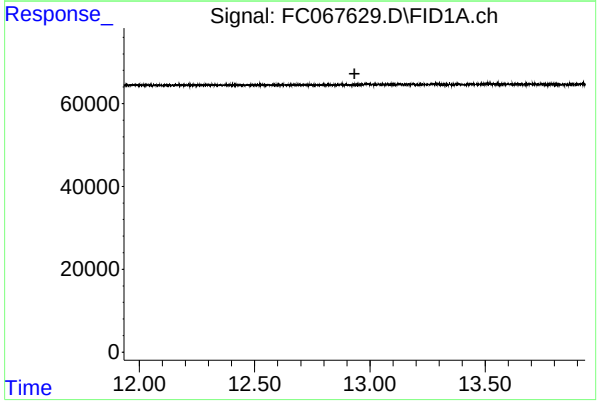




#9 ortho-Terphenyl (SURR)

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

Instrument :
FID_C
ClientSampleId :
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\FC110424AL\
Data File : FC067629.D
Signal(s) : FID1A.ch
Acq On : 05 Nov 2024 11:07
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 Nov 05 16:10:47 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.

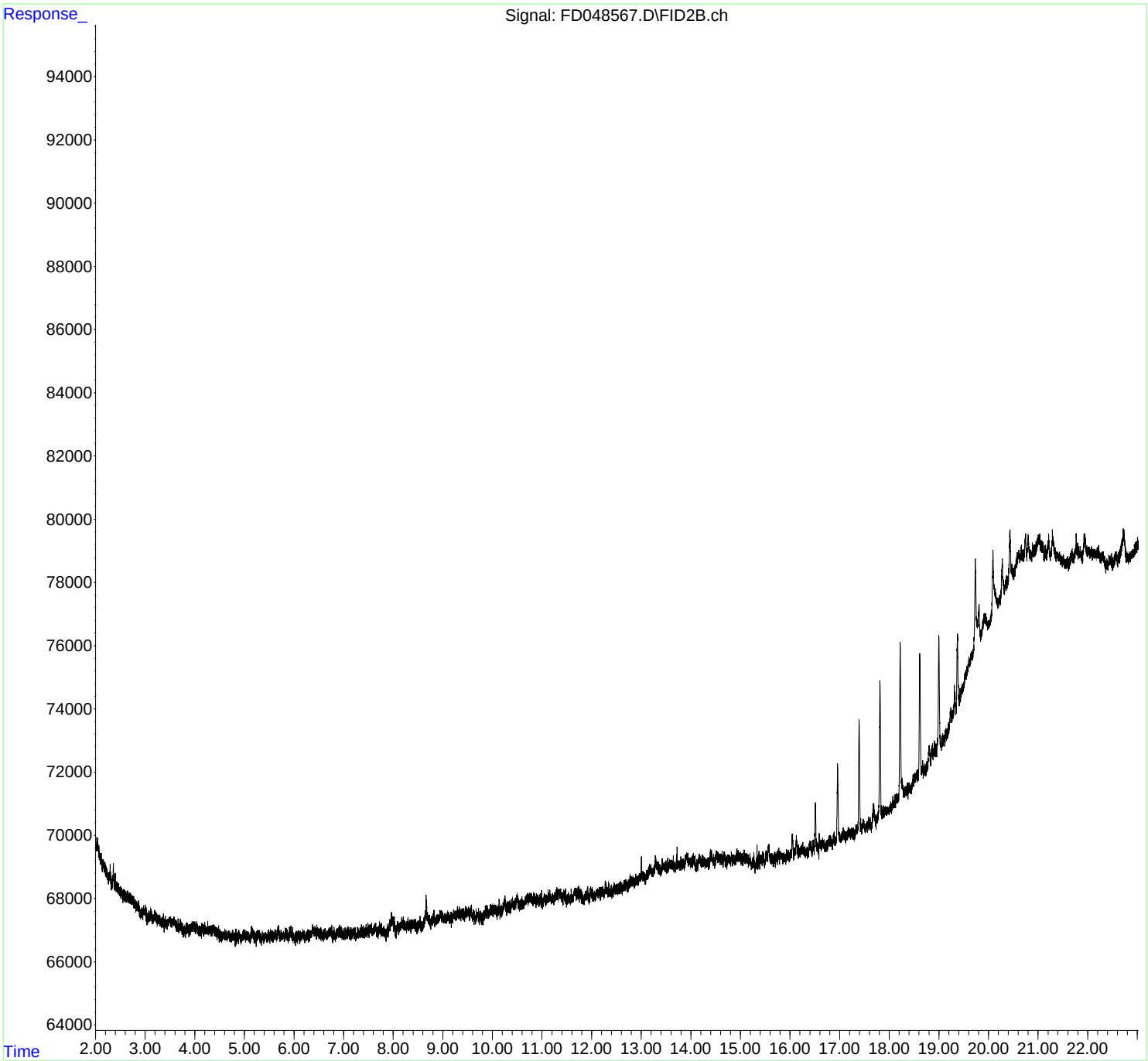
Quantitation Report (QT Reviewed)

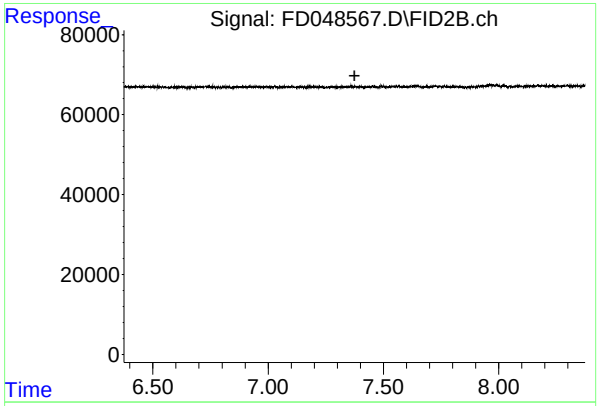
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD102324AR\
Data File : FD048567.D
Signal(s) : FID2B.ch
Acq On : 23 Oct 2024 14:35
Operator : YP/AJ
Sample : I.BLK
Misc :
ALS Vial : 51 Sample Multiplier: 1

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

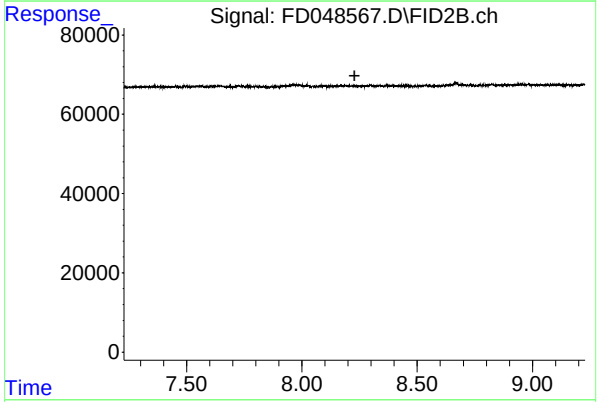




#4 2-Bromonaphthalene (SURR)

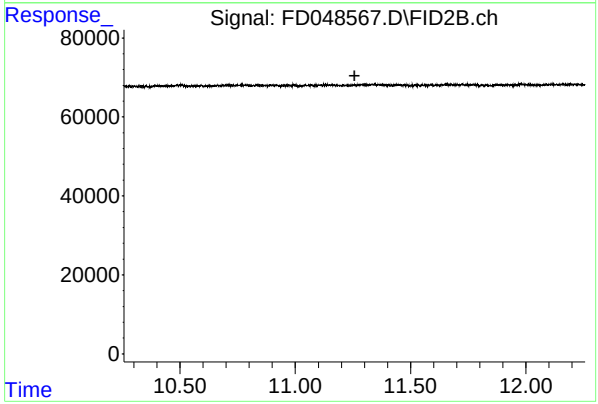
R.T.: 0.000 min
Exp R.T. : 7.375 min
Response: 0
Conc: N.D.

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:	04 Nov 2024 09:52
Client Sample ID:	I.BLK	Operator:	YP/AJ
Data file:	FD048639.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	4.093	5.811	0	0	200	ug/ml
Aromatic C12-C16	5.812	8.416	0	0	300	ug/ml
Aromatic C16-C21	8.417	12.676	0	0	500	ug/ml
Aromatic C21-C36	12.677	18.080	0	0	800	ug/ml
Aromatic EPH	4.093	18.080	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\FD110424AR\
Data File : FD048639.D
Signal(s) : FID2B.ch
Acq On : 04 Nov 2024 09:52
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: Nov 05 02:07:10 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

Target Compounds

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

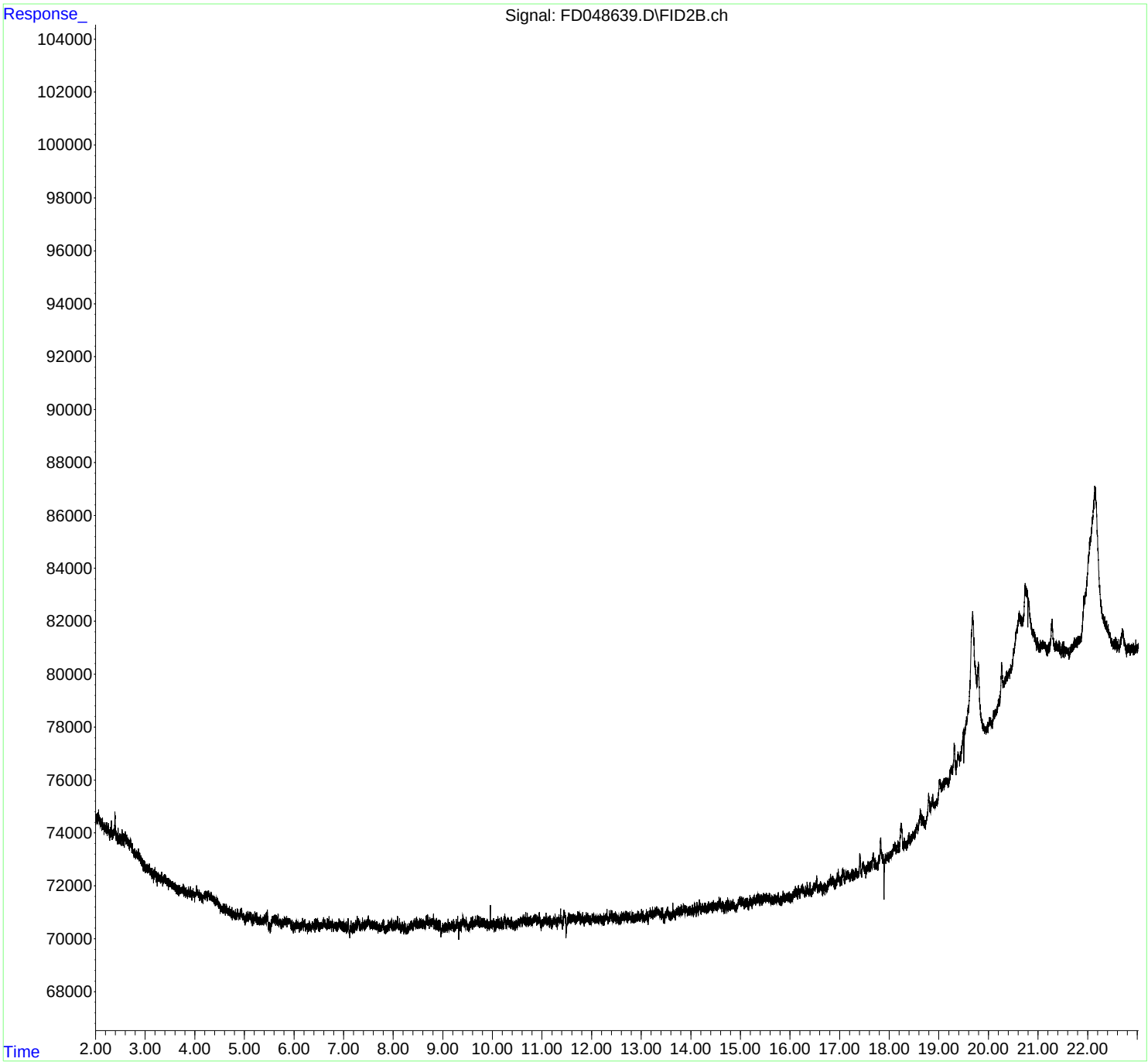
Quantitation Report (QT Reviewed)

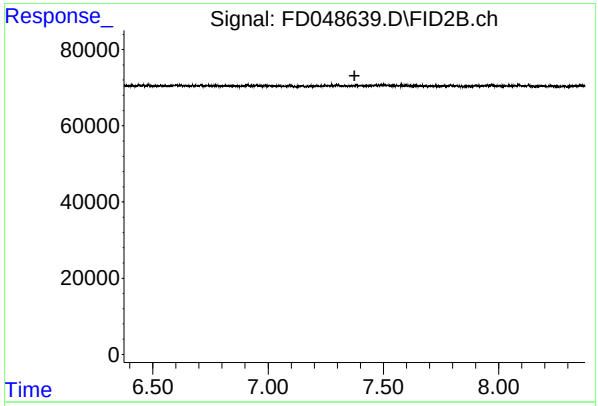
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD110424AR\
Data File : FD048639.D
Signal(s) : FID2B.ch
Acq On : 04 Nov 2024 09:52
Operator : YP/AJ
Sample : I.BLK
Misc :
ALS Vial : 51 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
I.BLK

Integration File: autoint1.e
Quant Time: Nov 05 02:07:10 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

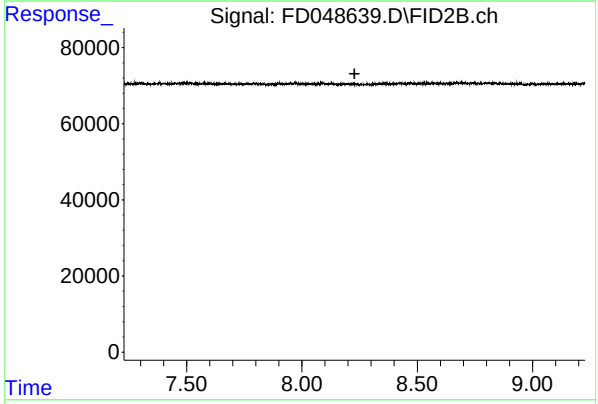




#4 2-Bromonaphthalene (SURR)

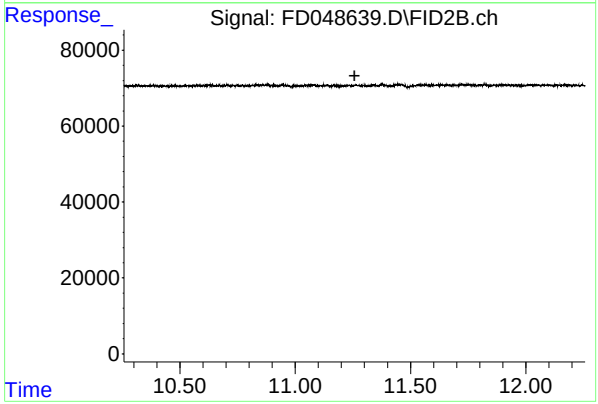
R.T.: 0.000 min
Exp R.T. : 7.375 min
Response: 0
Conc: N.D.

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\FD110424AR\
Data File : FD048639.D
Signal(s) : FID2B.ch
Acq On : 04 Nov 2024 09:52
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 Nov 05 03:19:45 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:	05 Nov 2024 01:46
Client Sample ID:	I.BLK	Operator:	YP/AJ
Data file:	FD048656.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	4.093	5.811	0	0	200	ug/ml
Aromatic C12-C16	5.812	8.416	0	0	300	ug/ml
Aromatic C16-C21	8.417	12.676	0	0	500	ug/ml
Aromatic C21-C36	12.677	18.080	0	0	800	ug/ml
Aromatic EPH	4.093	18.080	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\FD110424AR\
Data File : FD048656.D
Signal(s) : FID2B.ch
Acq On : 05 Nov 2024 01:46
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: Nov 05 03:11:49 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

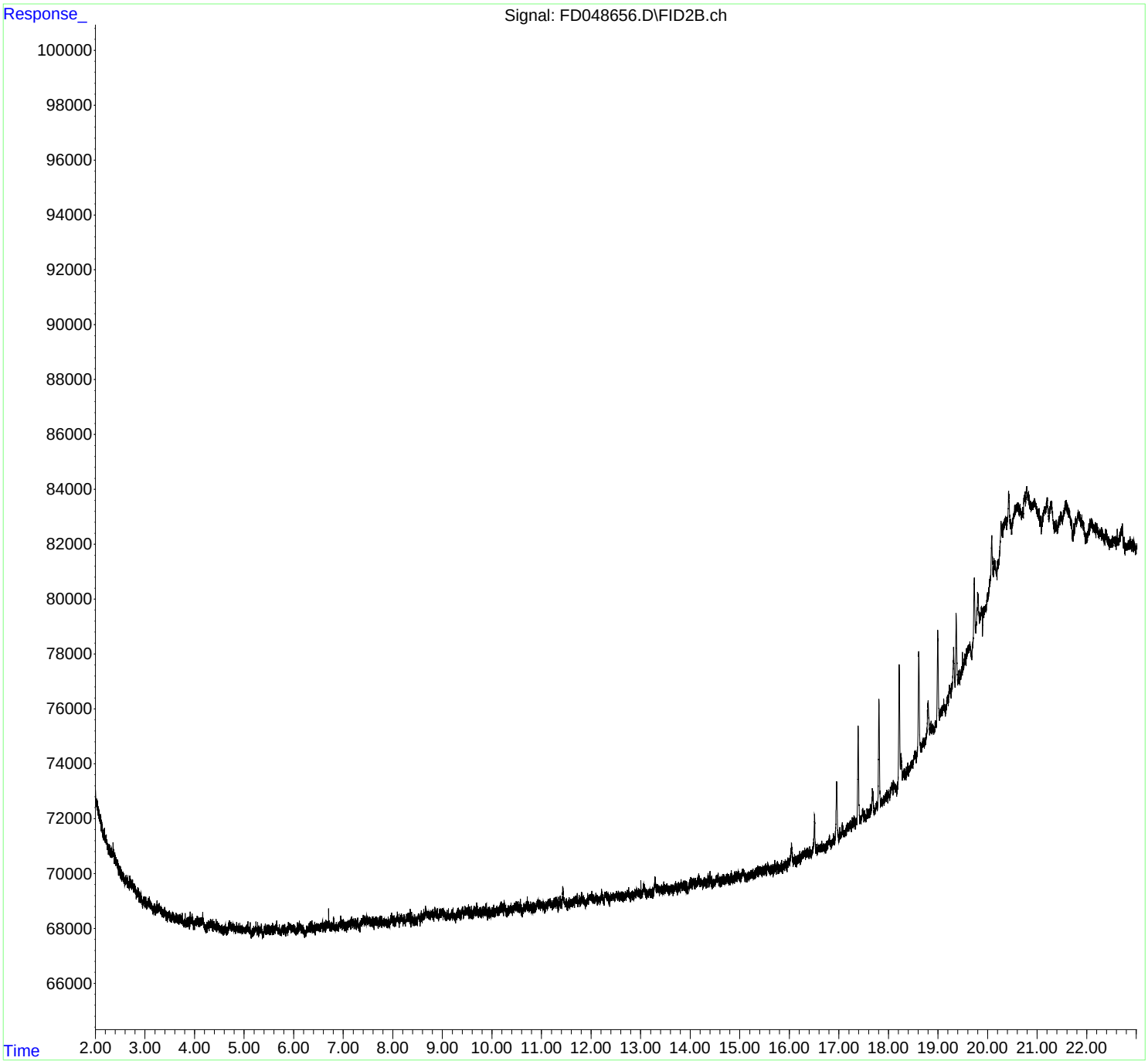
(f)=RT Delta > 1/2 Window (m)=manual int.

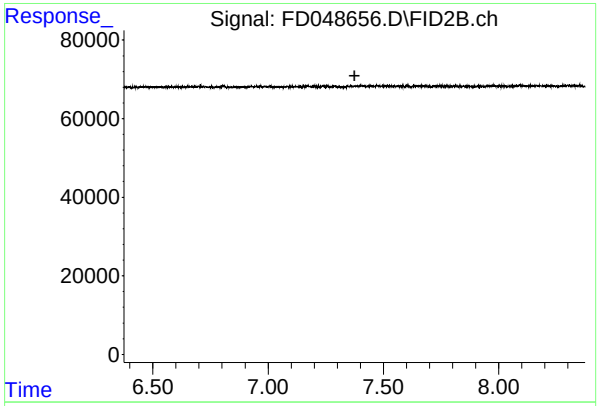
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD110424AR\
Data File : FD048656.D
Signal(s) : FID2B.ch
Acq On : 05 Nov 2024 01:46
Operator : YP/AJ
Sample : I.BLK
Misc :
ALS Vial : 51 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
I.BLK

Integration File: autoint1.e
Quant Time: Nov 05 03:11:49 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

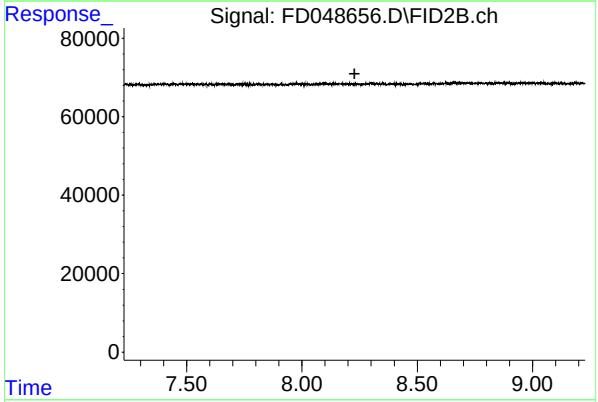




#4 2-Bromonaphthalene (SURR)

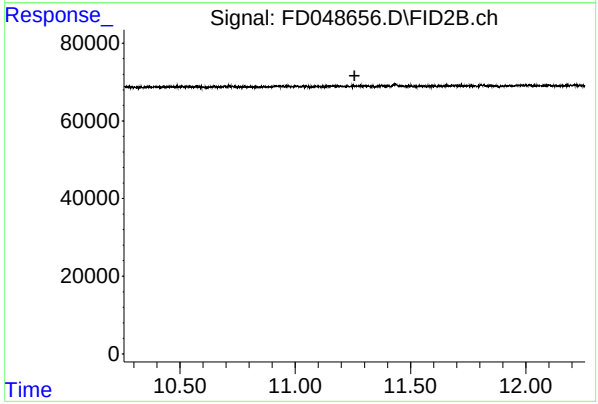
R.T.: 0.000 min
Exp R.T. : 7.375 min
Response: 0
Conc: N.D.

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\FD110424AR\
Data File : FD048656.D
Signal(s) : FID2B.ch
Acq On : 05 Nov 2024 01:46
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 Nov 05 03:39:54 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:	05 Nov 2024 04:48
Client Sample ID:	I.BLK	Operator:	YP/AJ
Data file:	FD048661.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	4.093	5.811	0	0	200	ug/ml
Aromatic C12-C16	5.812	8.416	0	0	300	ug/ml
Aromatic C16-C21	8.417	12.676	0	0	500	ug/ml
Aromatic C21-C36	12.677	18.080	0	0	800	ug/ml
Aromatic EPH	4.093	18.080	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\FD110424AR\
Data File : FD048661.D
Signal(s) : FID2B.ch
Acq On : 05 Nov 2024 04:48
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: Nov 05 05:24:00 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.

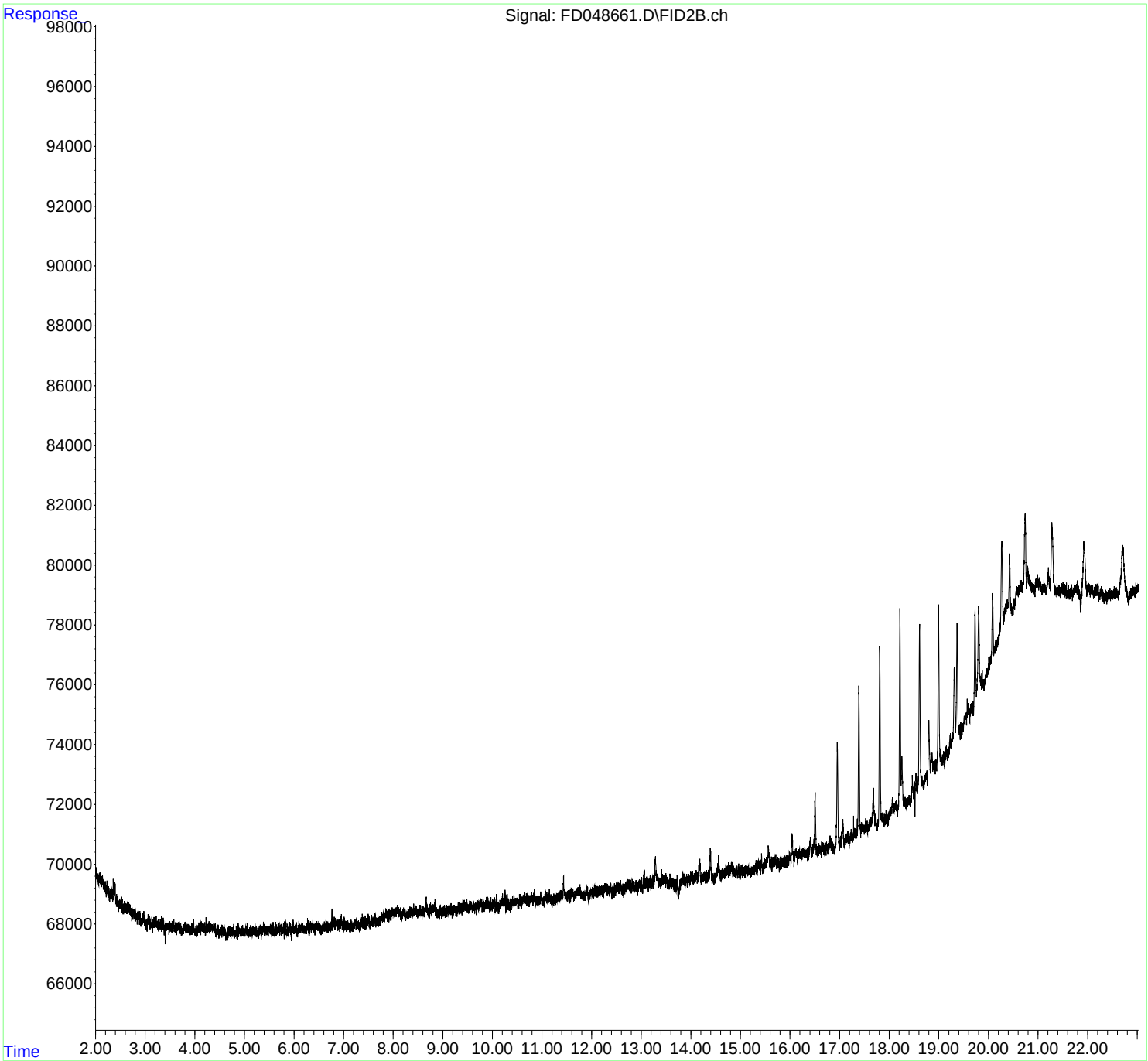
Quantitation Report (QT Reviewed)

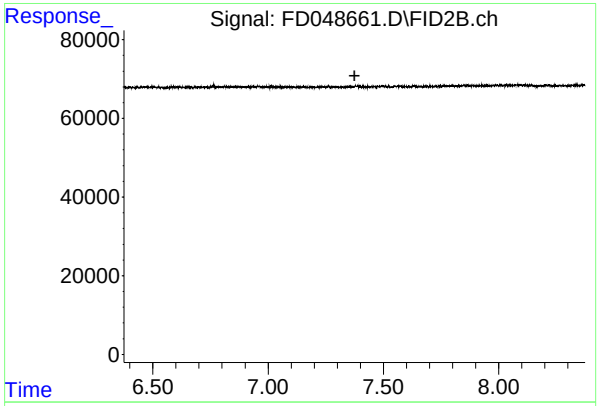
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD110424AR\
Data File : FD048661.D
Signal(s) : FID2B.ch
Acq On : 05 Nov 2024 04:48
Operator : YP/AJ
Sample : I.BLK
Misc :
ALS Vial : 51 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
I.BLK

Integration File: autoint1.e
Quant Time: Nov 05 05:24:00 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

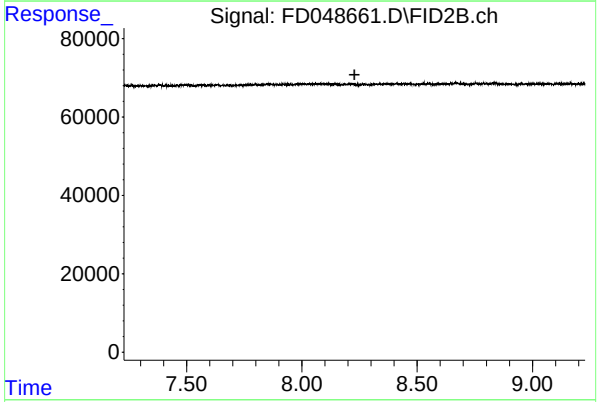




#4 2-Bromonaphthalene (SURR)

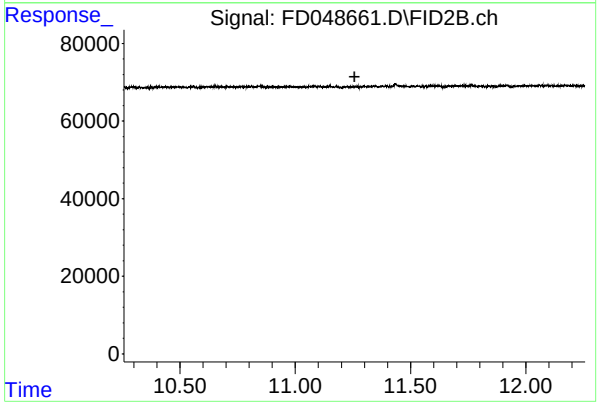
R.T.: 0.000 min
Exp R.T. : 7.375 min
Response: 0
Conc: N.D.

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\FD110424AR\
Data File : FD048661.D
Signal(s) : FID2B.ch
Acq On : 05 Nov 2024 04:48
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 Nov 12 00:55:46 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:	05 Nov 2024 09:41
Client Sample ID:	I.BLK	Operator:	YP/AJ
Data file:	FD048664.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	4.093	5.811	0	0	200	ug/ml
Aromatic C12-C16	5.812	8.416	0	0	300	ug/ml
Aromatic C16-C21	8.417	12.676	0	0	500	ug/ml
Aromatic C21-C36	12.677	18.080	0	0	800	ug/ml
Aromatic EPH	4.093	18.080	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\FD110424AR\
Data File : FD048664.D
Signal(s) : FID2B.ch
Acq On : 05 Nov 2024 09:41
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: Nov 06 01:26:38 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.

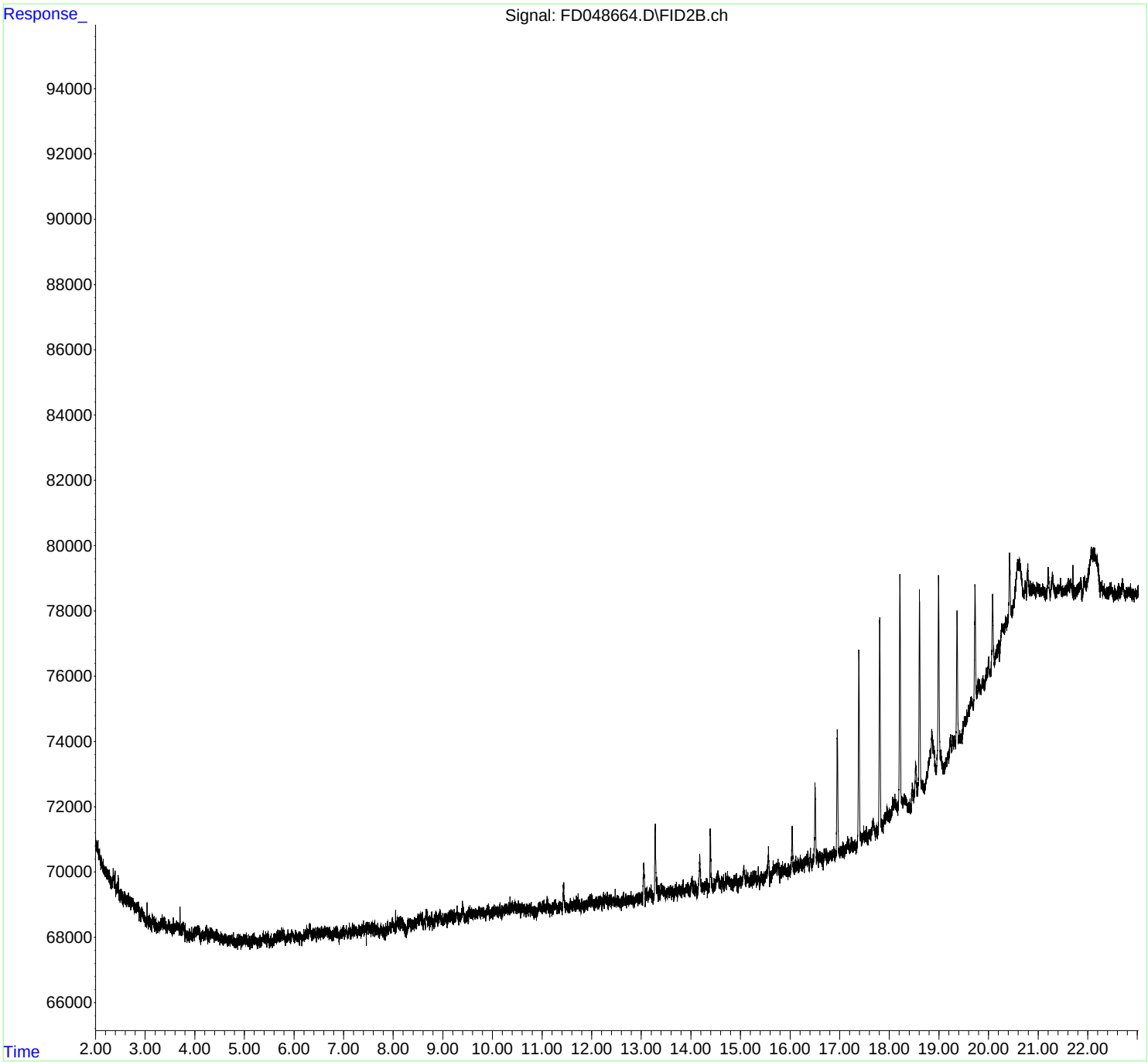
Quantitation Report (QT Reviewed)

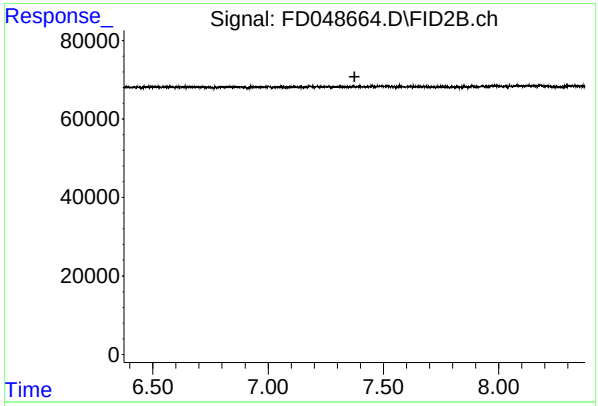
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD110424AR\
Data File : FD048664.D
Signal(s) : FID2B.ch
Acq On : 05 Nov 2024 09:41
Operator : YP/AJ
Sample : I.BLK
Misc :
ALS Vial : 51 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
I.BLK

Integration File: autoint1.e
Quant Time: Nov 06 01:26:38 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

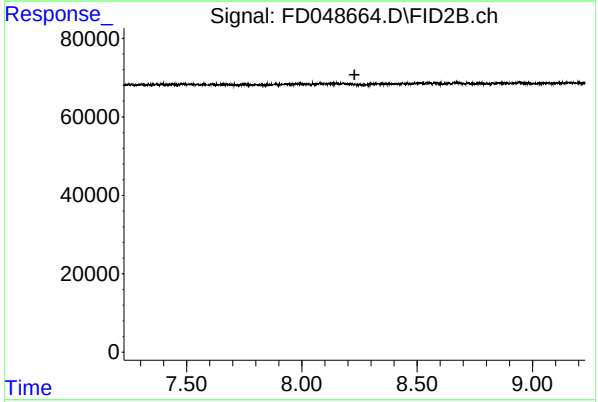




#4 2-Bromonaphthalene (SURR)

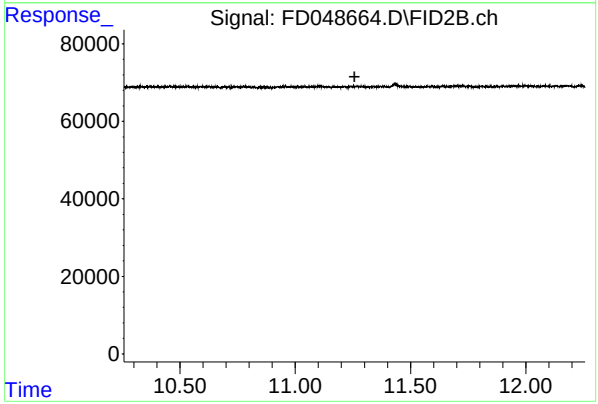
R.T.: 0.000 min
Exp R.T. : 7.375 min
Response: 0
Conc: N.D.

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\FD110424AR\
Data File : FD048664.D
Signal(s) : FID2B.ch
Acq On : 05 Nov 2024 09:41
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 Nov 06 01:39:42 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:	21 Oct 2024 19:11
Client Sample ID:	I.BLK	Operator:	YP\AJ
Data file:	FF014713.D	Misc:	
Instrument:	FID_F	ALS Vial:	51
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.497	6.360	0	0	200	ug/ml
Aromatic C12-C16	6.361	9.050	0	0	300	ug/ml
Aromatic C16-C21	9.051	13.357	0	0	500	ug/ml
Aromatic C21-C36	13.358	18.791	0	0	800	ug/ml
Aromatic EPH	4.497	18.791	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_F\Data\FF102124AR\
Data File : FF014713.D
Signal(s) : FID2B.ch
Acq On : 21 Oct 2024 19:11
Operator : YP\AJ
Sample : I.BLK
Misc :
ALS Vial : 51 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
I.BLK

Integration File: autoint1.e
Quant Time: Oct 22 04:15:46 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 102124.M
Quant Title : GC Extractables
QLast Update : Tue Oct 22 04:14:53 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.

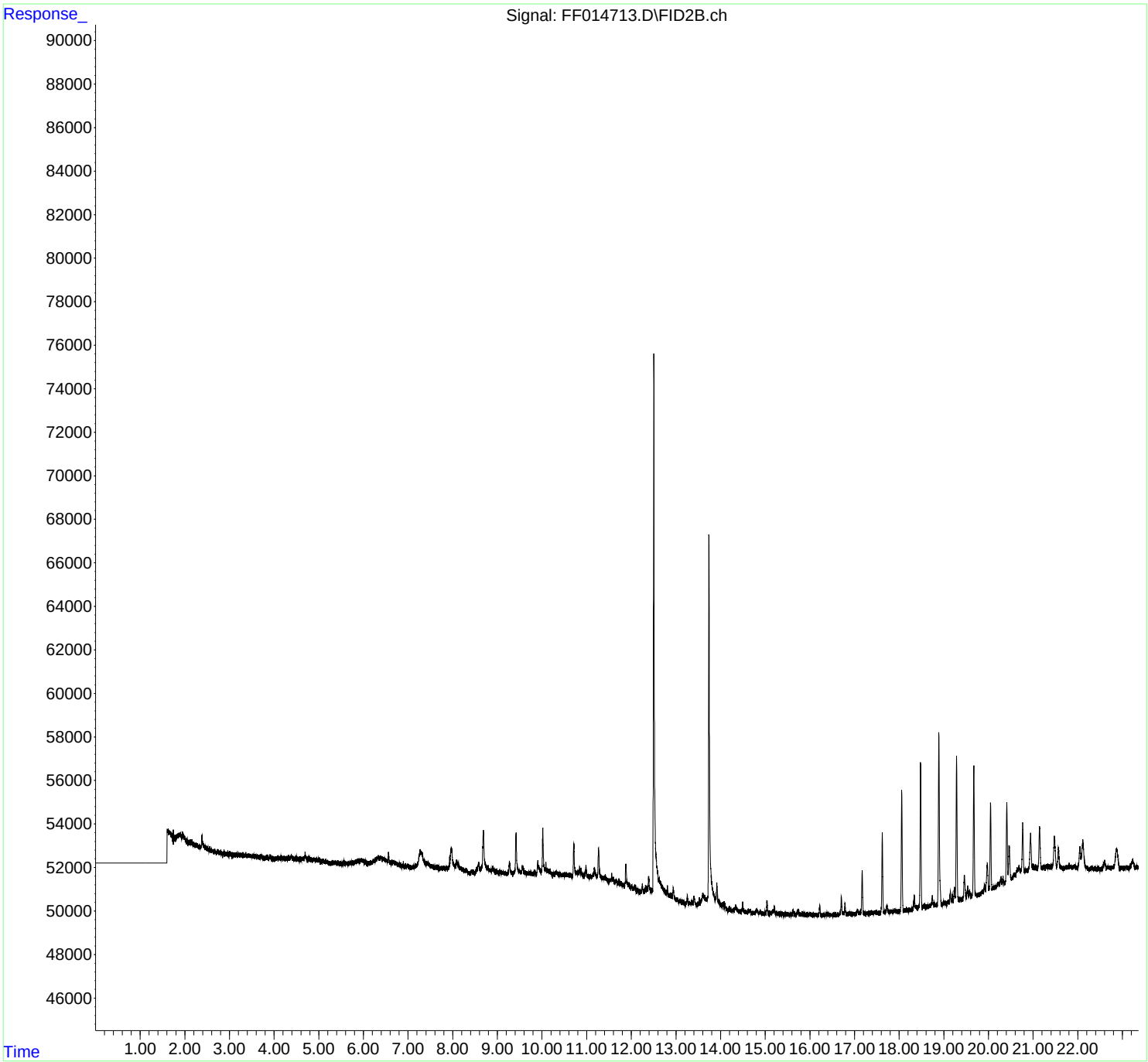
Quantitation Report (QT Reviewed)

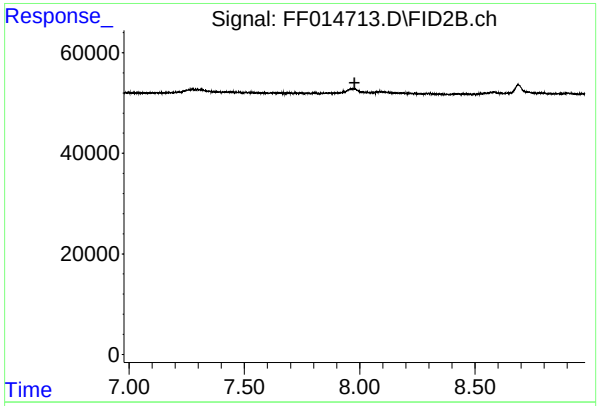
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF102124AR\
Data File : FF014713.D
Signal(s) : FID2B.ch
Acq On : 21 Oct 2024 19:11
Operator : YP\AJ
Sample : I.BLK
Misc :
ALS Vial : 51 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
I.BLK

Integration File: autoint1.e
Quant Time: Oct 22 04:15:46 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 102124.M
Quant Title : GC Extractables
QLast Update : Tue Oct 22 04:14:53 2024
Response via : Initial Calibration
Integrator: ChemStation

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

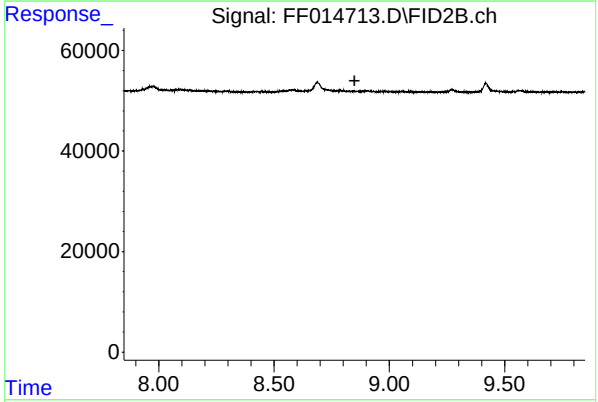




#4 2-Bromonaphthalene (SURR)

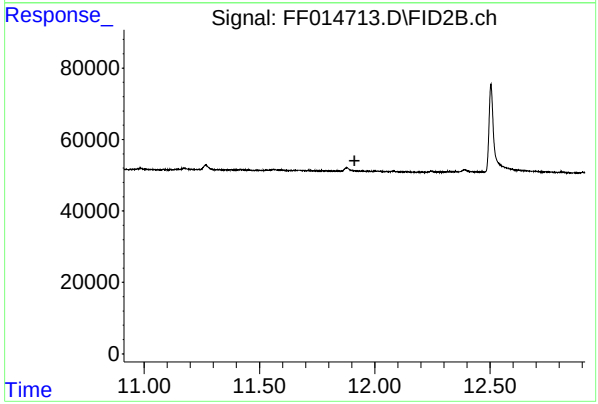
R.T.: 0.000 min
Exp R.T. : 7.978 min
Response: 0
Conc: N.D.

Instrument :
FID_F
ClientSampleId :
I.BLK



#6 2-Flurobiphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 8.849 min
Response: 0
Conc: N.D.



#11 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.912 min
Response: 0
Conc: N.D.

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF102124AR\
Data File : FF014713.D
Signal(s) : FID2B.ch
Acq On : 21 Oct 2024 19:11
Sample : I.BLK
Misc :
ALS Vial : 51 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 102124.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 102124.M Tue Oct 22 04:20:33 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:	04 Nov 2024 10:14
Client Sample ID:	I.BLK	Operator:	YP\AJ
Data file:	FF014904.D	Misc:	
Instrument:	FID_F	ALS Vial:	51
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.508	6.372	0	0	200	ug/ml
Aromatic C12-C16	6.373	9.064	0	0	300	ug/ml
Aromatic C16-C21	9.065	13.375	0	0	500	ug/ml
Aromatic C21-C36	13.376	18.817	0	0	800	ug/ml
Aromatic EPH	4.508	18.817	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_F\Data\FF110424AR\
Data File : FF014904.D
Signal(s) : FID2B.ch
Acq On : 04 Nov 2024 10:14
Operator : YP\AJ
Sample : I.BLK
Misc :
ALS Vial : 51 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
I.BLK

Integration File: autoint1.e
Quant Time: Nov 05 01:25:16 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 102124.M
Quant Title : GC Extractables
QLast Update : Tue Oct 22 04:14:53 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.

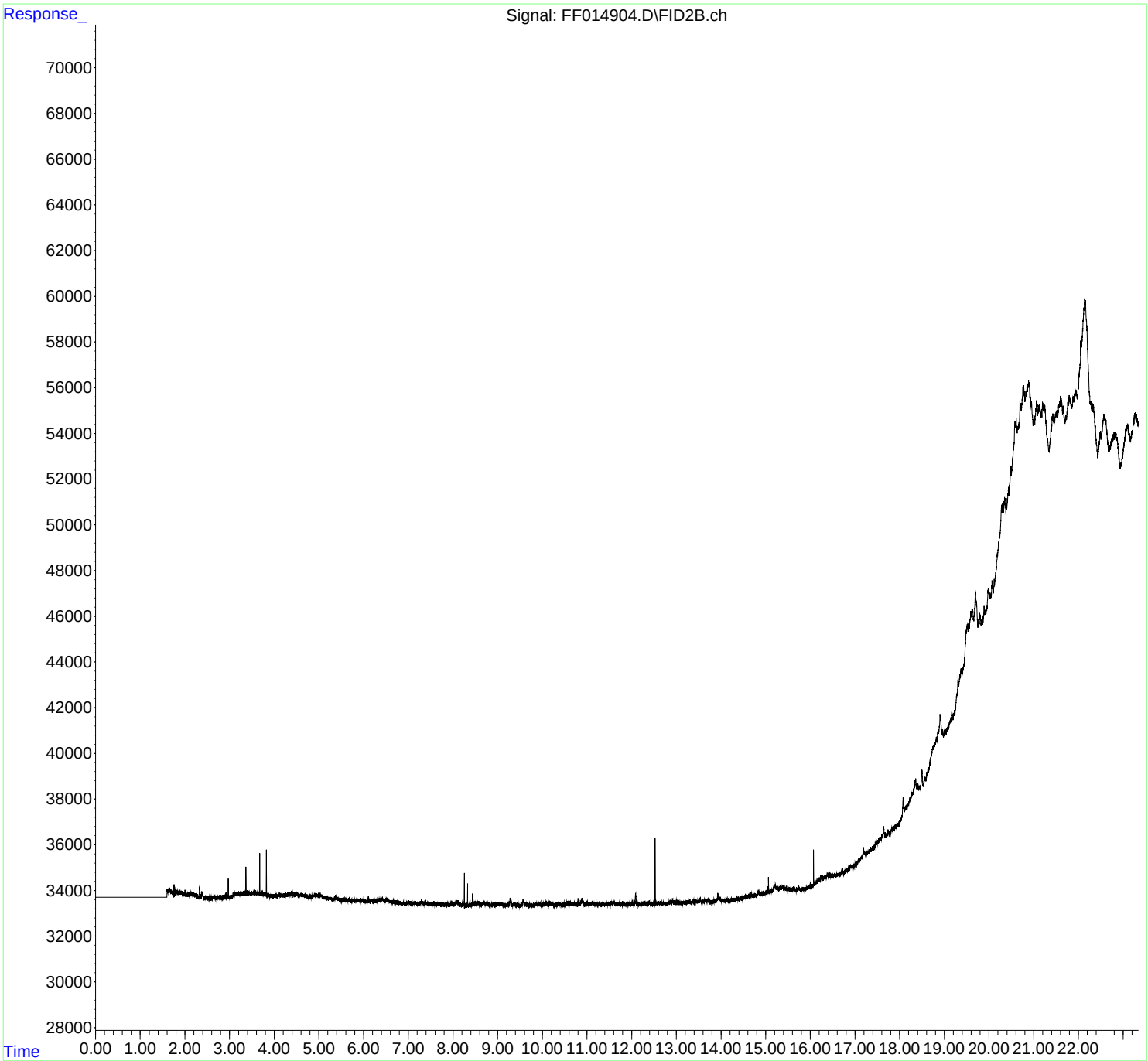
Quantitation Report (QT Reviewed)

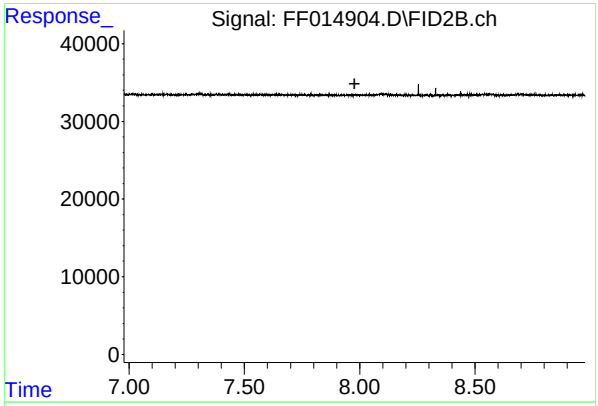
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF110424AR\
Data File : FF014904.D
Signal(s) : FID2B.ch
Acq On : 04 Nov 2024 10:14
Operator : YP\AJ
Sample : I.BLK
Misc :
ALS Vial : 51 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
I.BLK

Integration File: autoint1.e
Quant Time: Nov 05 01:25:16 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 102124.M
Quant Title : GC Extractables
QLast Update : Tue Oct 22 04:14:53 2024
Response via : Initial Calibration
Integrator: ChemStation

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

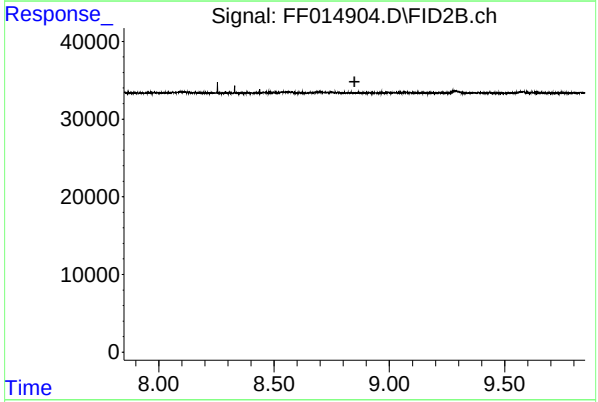




#4 2-Bromonaphthalene (SURR)

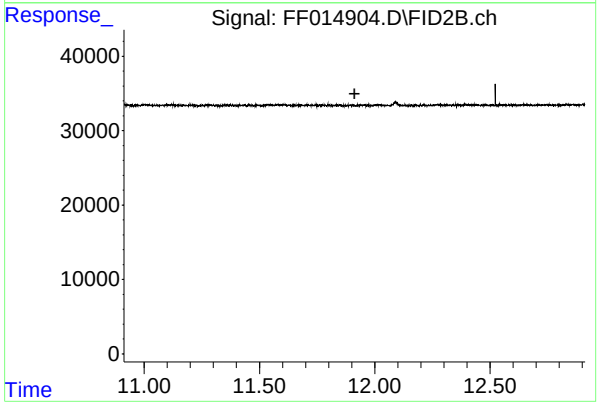
R.T.: 0.000 min
Exp R.T. : 7.978 min
Response: 0
Conc: N.D.

Instrument :
FID_F
ClientSampleId :
I.BLK



#6 2-Flurobiphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 8.849 min
Response: 0
Conc: N.D.



#11 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.912 min
Response: 0
Conc: N.D.

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF110424AR\
Data File : FF014904.D
Signal(s) : FID2B.ch
Acq On : 04 Nov 2024 10:14
Sample : I.BLK
Misc :
ALS Vial : 51 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 102124.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 102124.M Tue Nov 05 01:55:38 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:	04 Nov 2024 19:43
Client Sample ID:	I.BLK	Operator:	YP\AJ
Data file:	FF014923.D	Misc:	
Instrument:	FID_F	ALS Vial:	51
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.508	6.372	0	0	200	ug/ml
Aromatic C12-C16	6.373	9.064	0	0	300	ug/ml
Aromatic C16-C21	9.065	13.375	0	0	500	ug/ml
Aromatic C21-C36	13.376	18.817	0	0	800	ug/ml
Aromatic EPH	4.508	18.817	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_F\Data\FF110424AR\
Data File : FF014923.D
Signal(s) : FID2B.ch
Acq On : 04 Nov 2024 19:43
Operator : YP\AJ
Sample : I.BLK
Misc :
ALS Vial : 51 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
I.BLK

Integration File: autoint1.e
Quant Time: Nov 05 01:28:07 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 102124.M
Quant Title : GC Extractables
QLast Update : Tue Oct 22 04:14:53 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.

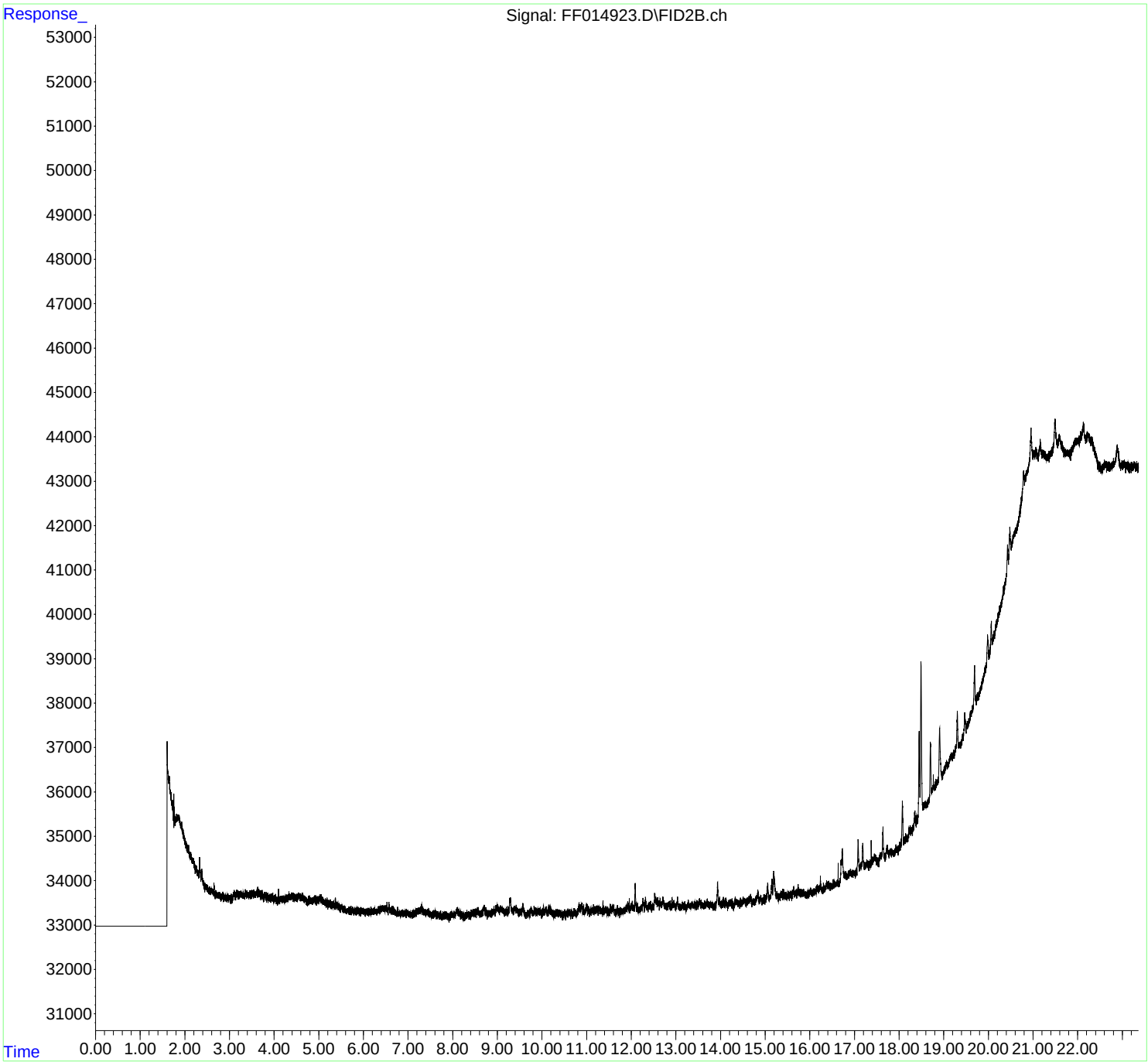
Quantitation Report (QT Reviewed)

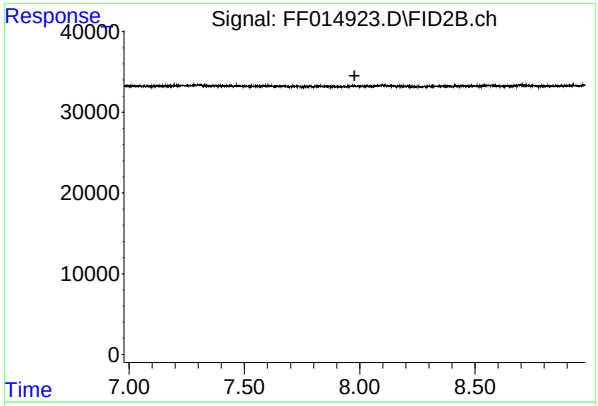
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF110424AR\
Data File : FF014923.D
Signal(s) : FID2B.ch
Acq On : 04 Nov 2024 19:43
Operator : YP\AJ
Sample : I.BLK
Misc :
ALS Vial : 51 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
I.BLK

Integration File: autoint1.e
Quant Time: Nov 05 01:28:07 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 102124.M
Quant Title : GC Extractables
QLast Update : Tue Oct 22 04:14:53 2024
Response via : Initial Calibration
Integrator: ChemStation

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

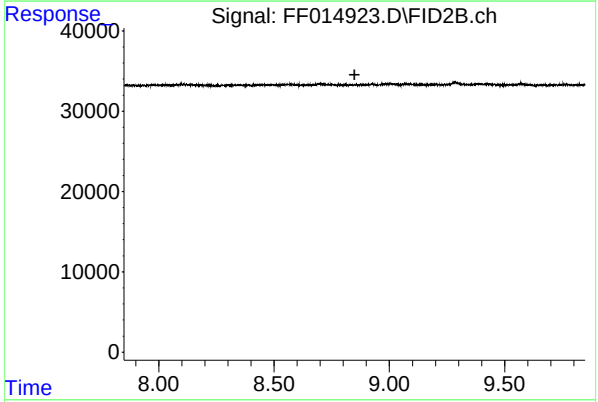




#4 2-Bromonaphthalene (SURR)

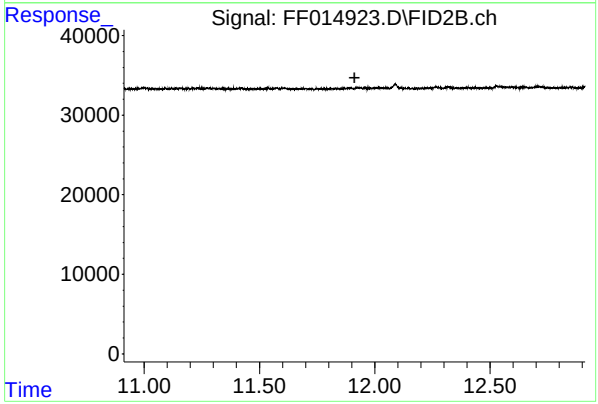
R.T.: 0.000 min
Exp R.T. : 7.978 min
Response: 0
Conc: N.D.

Instrument :
FID_F
ClientSampleId :
I.BLK



#6 2-Flurobiphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 8.849 min
Response: 0
Conc: N.D.



#11 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.912 min
Response: 0
Conc: N.D.

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF110424AR\
Data File : FF014923.D
Signal(s) : FID2B.ch
Acq On : 04 Nov 2024 19:43
Sample : I.BLK
Misc :
ALS Vial : 51 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 102124.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 102124.M Tue Nov 05 02:03:54 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:	22 Oct 2024 00:29
Client Sample ID:	I.BLK	Operator:	YP\AJ
Data file:	FG014470.D	Misc:	
Instrument:	FID_G	ALS Vial:	1
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.247	6.872	0	0	300	ug/ml
Aliphatic C12-C16	6.873	10.317	0	0	200	ug/ml
Aliphatic C16-C21	10.318	13.691	0	0	300	ug/ml
Aliphatic C21-C28	13.692	17.354	0	0	400	ug/ml
Aliphatic C28-C40	17.355	22.301	0	0	600	ug/ml
Aliphatic EPH	3.247	22.301	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	3.247	17.354	0	0	1200	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG102124AL\
Data File : FG014470.D
Signal(s) : FID1A.ch
Acq On : 22 Oct 2024 00:29
Operator : YP\AJ
Sample : I.BLK
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
I.BLK

Integration File: autoint1.e
Quant Time: Oct 22 06:50:51 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 102124.M
Quant Title : GC Extractables
QLast Update : Tue Oct 22 06:49:54 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.

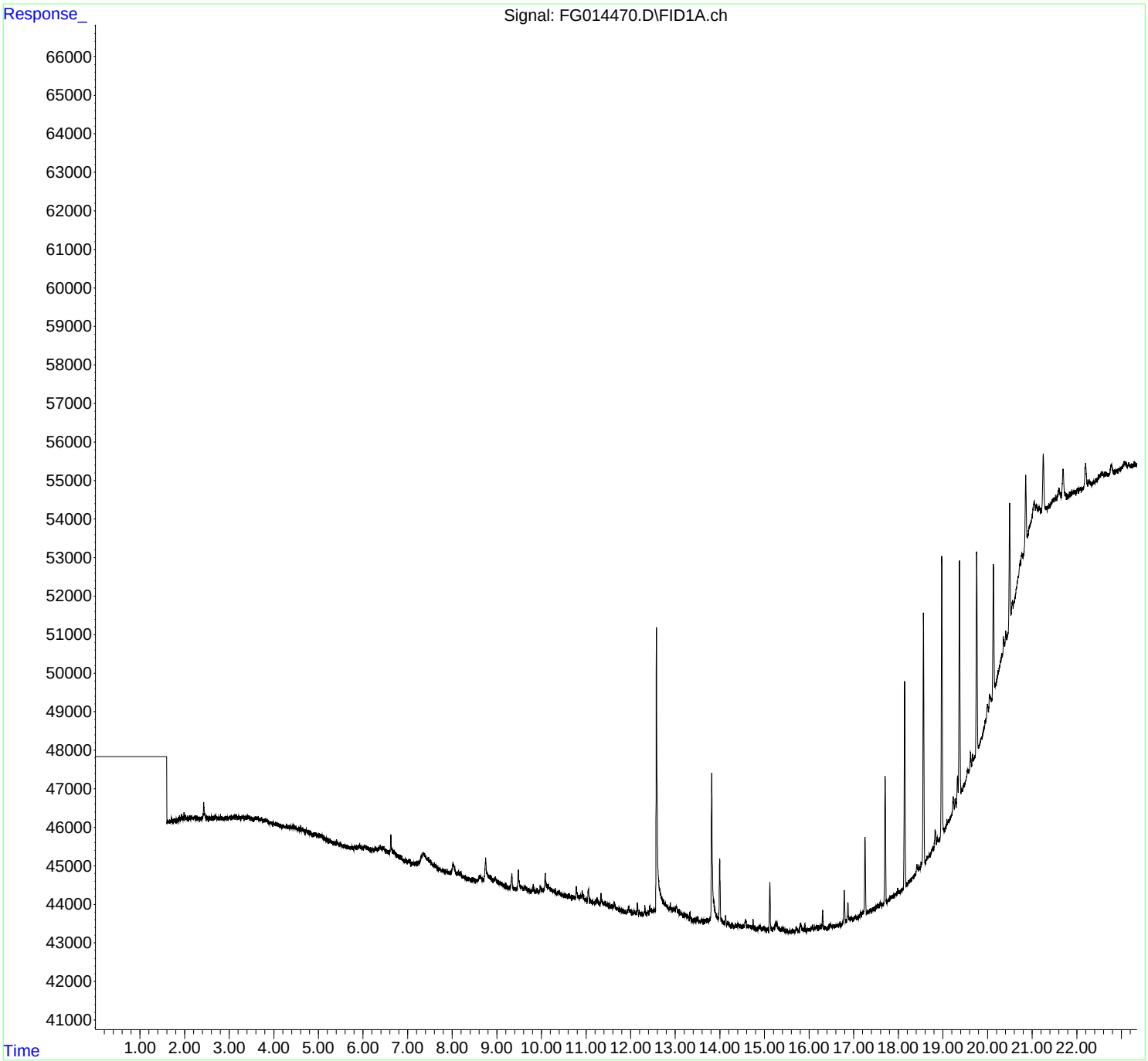
Quantitation Report (QT Reviewed)

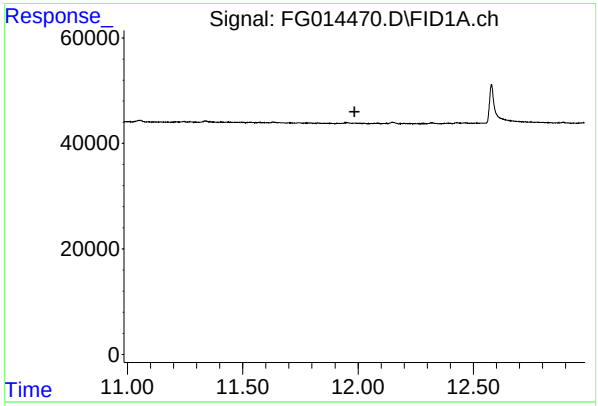
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG102124AL\
Data File : FG014470.D
Signal(s) : FID1A.ch
Acq On : 22 Oct 2024 00:29
Operator : YP\AJ
Sample : I.BLK
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
I.BLK

Integration File: autoint1.e
Quant Time: Oct 22 06:50:51 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 102124.M
Quant Title : GC Extractables
QLast Update : Tue Oct 22 06:49:54 2024
Response via : Initial Calibration
Integrator: ChemStation

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

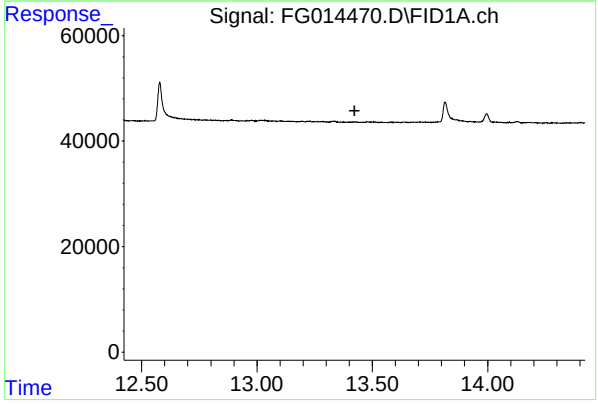




#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.984 min
Response: 0
Conc: N.D.

Instrument :
FID_G
ClientSampleId :
I.BLK



#12 1-chlorooctadecane (SURR)

R.T.: 0.000 min
Exp R.T. : 13.423 min
Response: 0
Conc: N.D.

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG102124AL\
Data File : FG014470.D
Signal(s) : FID1A.ch
Acq On : 22 Oct 2024 00:29
Sample : I.BLK
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 102124.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 102124.M Tue Oct 22 07:00:37 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:	04 Nov 2024 10:14
Client Sample ID:	I.BLK	Operator:	YP\AJ
Data file:	FG014634.D	Misc:	
Instrument:	FID_G	ALS Vial:	1
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.228	6.849	0	0	300	ug/ml
Aliphatic C12-C16	6.850	10.292	0	0	200	ug/ml
Aliphatic C16-C21	10.293	13.665	0	0	300	ug/ml
Aliphatic C21-C28	13.666	17.329	0	0	400	ug/ml
Aliphatic C28-C40	17.330	22.266	0	0	600	ug/ml
Aliphatic EPH	3.228	22.266	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	3.228	17.329	0	0	1200	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG110424AL\
Data File : FG014634.D
Signal(s) : FID1A.ch
Acq On : 04 Nov 2024 10:14
Operator : YP\AJ
Sample : I.BLK
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
I.BLK

Integration File: autoint1.e
Quant Time: Nov 05 00:35:46 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 102124.M
Quant Title : GC Extractables
QLast Update : Tue Oct 22 06:49:54 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.

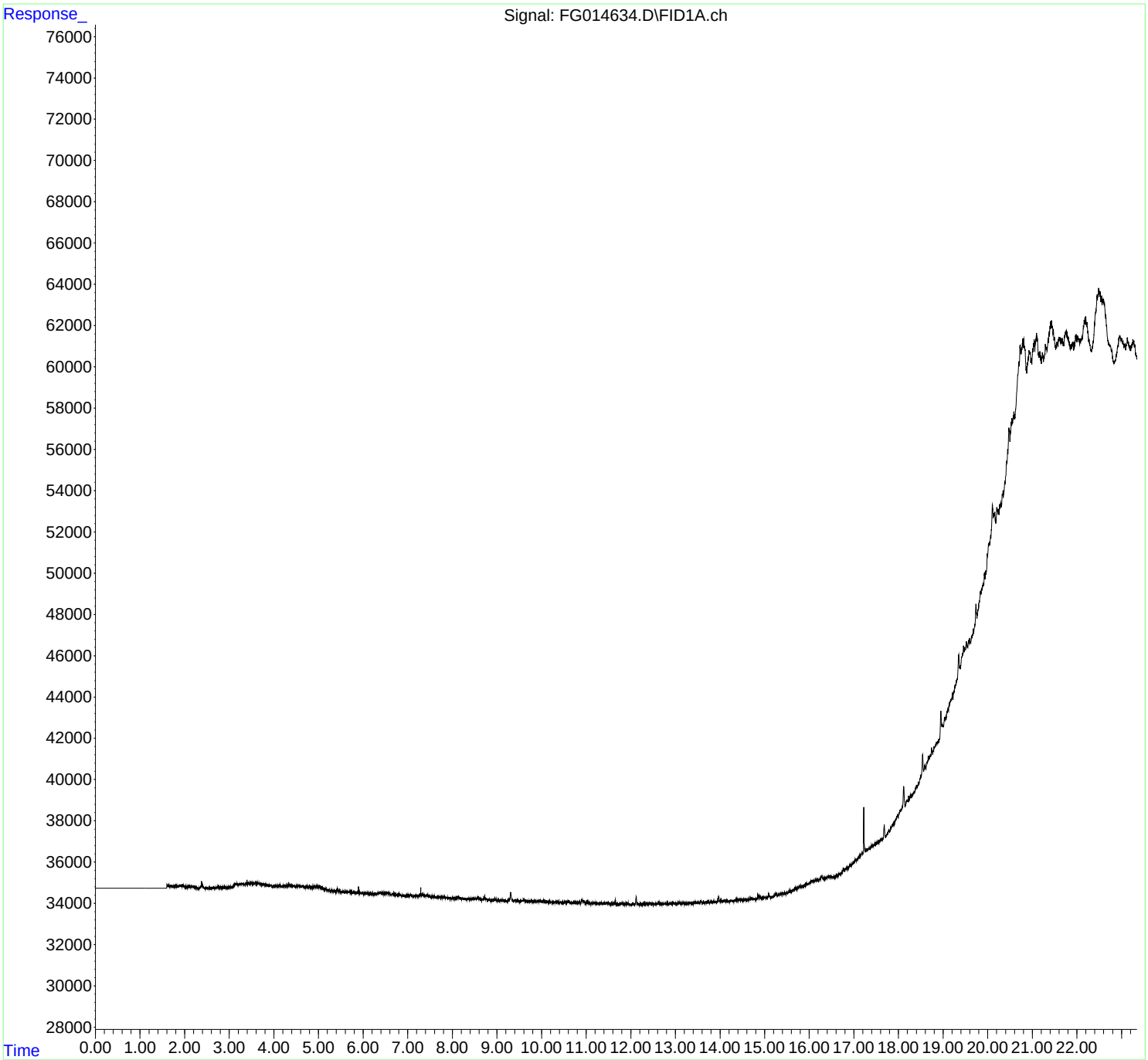
Quantitation Report (QT Reviewed)

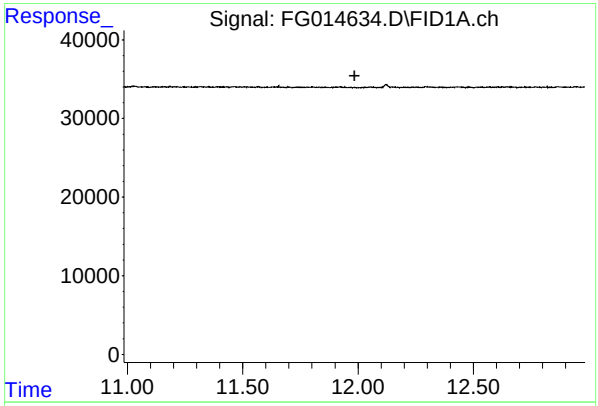
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG110424AL\
Data File : FG014634.D
Signal(s) : FID1A.ch
Acq On : 04 Nov 2024 10:14
Operator : YP\AJ
Sample : I.BLK
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
I.BLK

Integration File: autoint1.e
Quant Time: Nov 05 00:35:46 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 102124.M
Quant Title : GC Extractables
QLast Update : Tue Oct 22 06:49:54 2024
Response via : Initial Calibration
Integrator: ChemStation

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

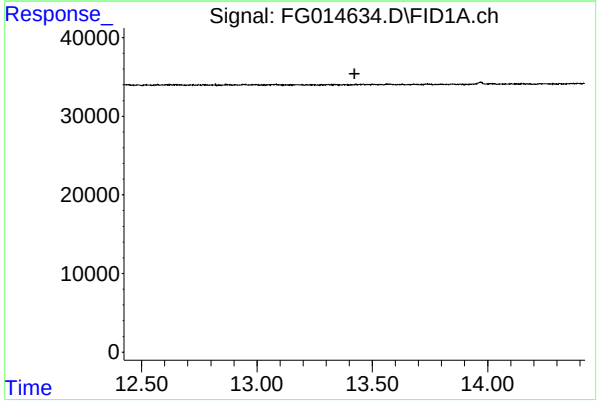




#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.984 min
Response: 0
Conc: N.D.

Instrument :
FID_G
ClientSampleId :
I.BLK



#12 1-chlorooctadecane (SURR)

R.T.: 0.000 min
Exp R.T. : 13.423 min
Response: 0
Conc: N.D.

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG110424AL\
Data File : FG014634.D
Signal(s) : FID1A.ch
Acq On : 04 Nov 2024 10:14
Sample : I.BLK
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 102124.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 102124.M Tue Nov 05 01:16:47 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:	04 Nov 2024 19:43
Client Sample ID:	I.BLK	Operator:	YP\AJ
Data file:	FG014653.D	Misc:	
Instrument:	FID_G	ALS Vial:	1
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.228	6.849	0	0	300	ug/ml
Aliphatic C12-C16	6.850	10.292	0	0	200	ug/ml
Aliphatic C16-C21	10.293	13.665	0	0	300	ug/ml
Aliphatic C21-C28	13.666	17.329	0	0	400	ug/ml
Aliphatic C28-C40	17.330	22.266	0	0	600	ug/ml
Aliphatic EPH	3.228	22.266	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	3.228	17.329	0	0	1200	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG110424AL\
Data File : FG014653.D
Signal(s) : FID1A.ch
Acq On : 04 Nov 2024 19:43
Operator : YP\AJ
Sample : I.BLK
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
I.BLK

Integration File: autoint1.e
Quant Time: Nov 05 00:38:59 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 102124.M
Quant Title : GC Extractables
QLast Update : Tue Oct 22 06:49:54 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.

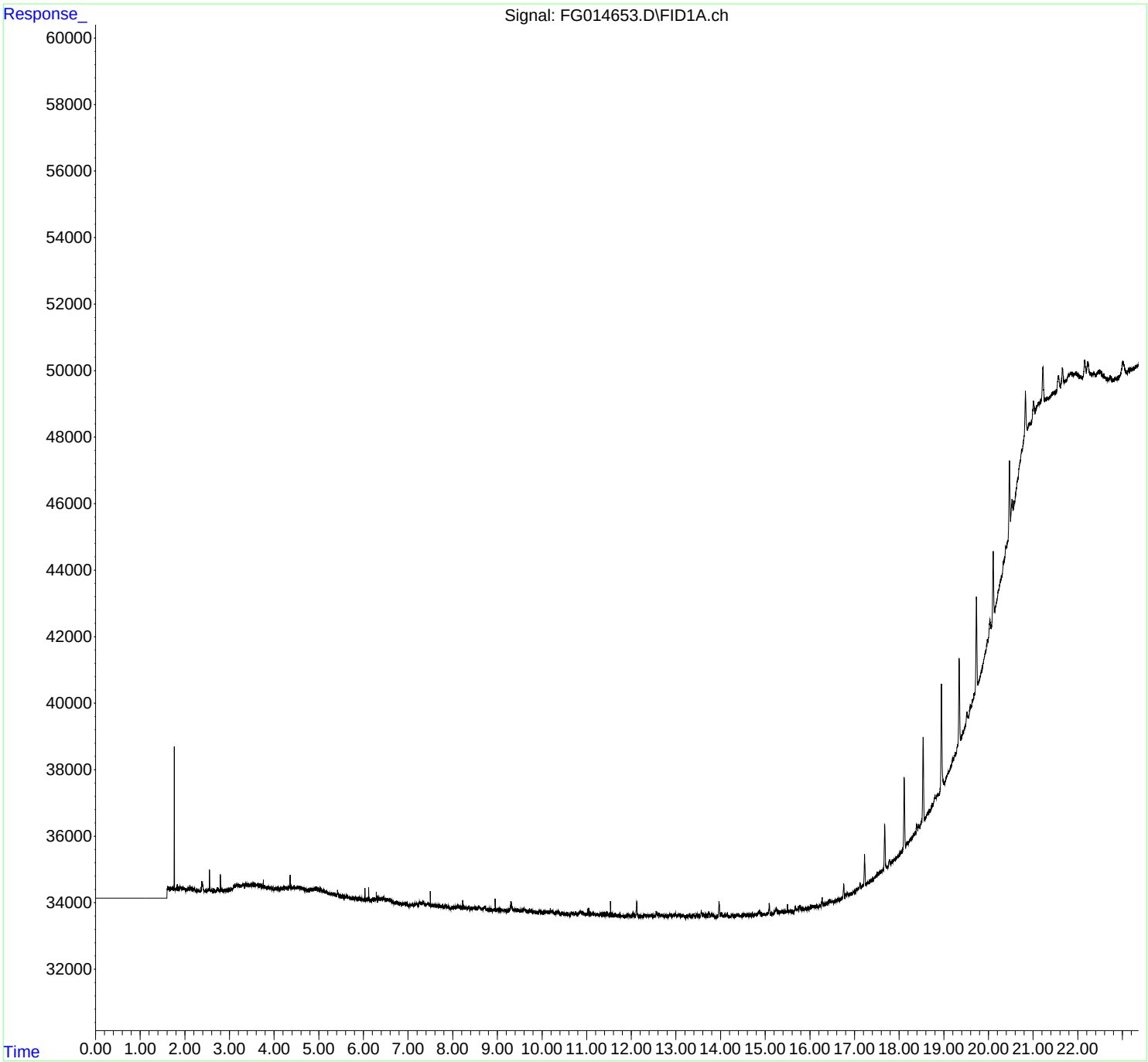
Quantitation Report (QT Reviewed)

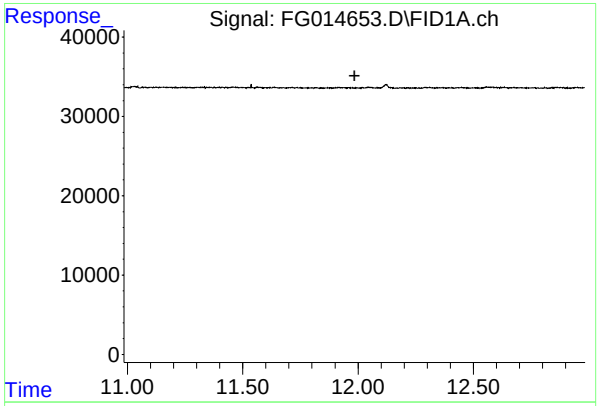
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG110424AL\
Data File : FG014653.D
Signal(s) : FID1A.ch
Acq On : 04 Nov 2024 19:43
Operator : YP\AJ
Sample : I.BLK
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
I.BLK

Integration File: autoint1.e
Quant Time: Nov 05 00:38:59 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 102124.M
Quant Title : GC Extractables
QLast Update : Tue Oct 22 06:49:54 2024
Response via : Initial Calibration
Integrator: ChemStation

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

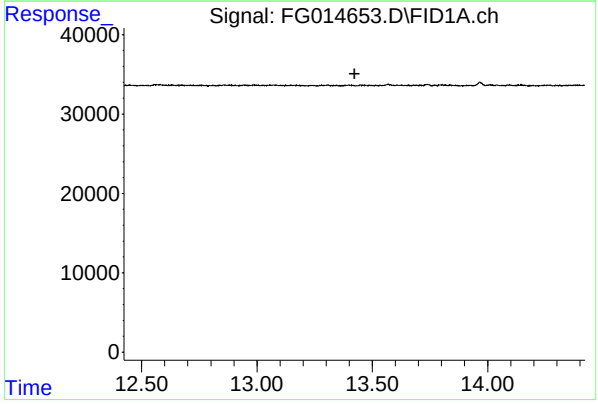




#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.984 min
Response: 0
Conc: N.D.

Instrument :
FID_G
ClientSampleId :
I.BLK



#12 1-chlorooctadecane (SURR)

R.T.: 0.000 min
Exp R.T. : 13.423 min
Response: 0
Conc: N.D.

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG110424AL\
Data File : FG014653.D
Signal(s) : FID1A.ch
Acq On : 04 Nov 2024 19:43
Sample : I.BLK
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 102124.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 102124.M Tue Nov 05 01:23:04 2024

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

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	
Project:	RFP 872	Date Received:	
Client Sample ID:	PB164618BS	SDG No.:	P4620
Lab Sample ID:	PB164618BS	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
11/03/24 08:45	11/05/24 3:35	PB164618

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	5.27		1	0.38	1.00	mg/kg	FC067622.D
Aliphatic C12-C16	Aliphatic C12-C16	5.13		1	0.24	0.67	mg/kg	FC067622.D
Aliphatic C16-C21	Aliphatic C16-C21	8.80		1	0.30	1.00	mg/kg	FC067622.D
Aliphatic C21-C28	Aliphatic C21-C28	12.0		1	0.80	1.33	mg/kg	FC067622.D
Aliphatic C28-C40	Aliphatic C28-C40	19.1		1	1.80	2.00	mg/kg	FC067622.D
Aromatic C10-C12	Aromatic C10-C12	3.35		1	0.30	0.67	mg/kg	FD048659.D
Aromatic C12-C16	Aromatic C12-C16	6.58		1	0.34	1.00	mg/kg	FD048659.D
Aromatic C16-C21	Aromatic C16-C21	13.2		1	0.96	1.67	mg/kg	FD048659.D
Aromatic C21-C36	Aromatic C21-C36	21.1		1	2.00	2.66	mg/kg	FD048659.D
Total AliphaticEPH	Total AliphaticEPH	50.3			3.52	5.99	mg/kg	
Total AromaticEPH	Total AromaticEPH	44.2			3.60	6.00	mg/kg	
Total EPH	Total EPH	94.5			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:	Weston Solutions, Inc.		Date Collected:		
Project:	RFP 872		Date Received:		
Client Sample ID:	PB164618BS		SDG No.:	P4620	
Lab Sample ID:	PB164618BS		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
FD048659.D	1	11/03/24	11/05/24	PB164618

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	3.35		0.30	0.67	mg/kg
Aromatic C12-C16	Aromatic C12-C16	6.58		0.34	1.00	mg/kg
Aromatic C16-C21	Aromatic C16-C21	13.2		0.96	1.67	mg/kg
Aromatic C21-C36	Aromatic C21-C36	21.1		2.00	2.66	mg/kg
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	45.3		40 - 140	91%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	46.6		40 - 140	93%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	41.4		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:	PB164618BS	Acq On:	05 Nov 2024 03:35
Client Sample ID:	PB164618BS	Operator:	YP/AJ
Data file:	FD048659.D	Misc:	
Instrument:	FID_D	ALS Vial:	72
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic EPH	4.093	18.080	107197490	663.939		ug/ml
2-Bromonaphthalene (SURR)	7.370	7.370	6877106	45.31		ug/ml
2-Flurobiphenyl (SURR)	8.220	8.220	4573507	46.58		ug/ml
ortho-Terphenyl (SURR)	11.255	11.255	7054403	41.41		ug/ml
Aromatic C10-C12	4.093	5.811	8858247	50.273	200	ug/ml
Aromatic C12-C16	5.812	8.416	17520801	98.835	300	ug/ml
Aromatic C16-C21	8.417	12.676	32370228	197.581	500	ug/ml
Aromatic C21-C36	12.677	18.080	48448214	317.25	800	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD110424AR\
Data File : FD048659.D
Signal(s) : FID2B.ch
Acq On : 05 Nov 2024 03:35
Operator : YP/AJ
Sample : PB164618BS
Misc :
ALS Vial : 72 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
PB164618BS

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 11/06/2024
Supervised By :Ankita Jodhani 11/06/2024

Integration File: autoint1.e
Quant Time: Nov 05 05:19:38 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	6877106	45.310 ug/ml
	Spiked Amount 50.000		Recovery =	90.62%
6)	S 2-Flurobiphenyl (SURR)	8.220	4573507	46.577 ug/ml
	Spiked Amount 50.000 Range 0 - 131		Recovery =	93.15%
11)	S ortho-Terphenyl (SURR)	11.255	7054403	41.414 ug/ml
	Spiked Amount 50.000		Recovery =	82.83%
	Target Compounds			
1)	T 1,2,3-Trimethylbenzen...	4.192	4506540	25.904 ug/mlm
2)	T Naphthalene (C11.7)	5.710	5214426	29.223 ug/mlm
3)	T 2-Methylnaphthalene (...	6.756	5177660	28.947 ug/ml
5)	T Acenaphthylene (C15.06)	8.022	5994787	34.141 ug/ml
7)	T Acenaphthene (C15.5)	8.317	6348354	35.793 ug/ml
8)	T Flouorene (C16.55)	9.095	6277188	37.135 ug/ml
9)	T Phenanthrene (C19.36)	10.482	6307922	38.159 ug/ml
10)	T Anthracene (C19.43)	10.558	6421752	40.159 ug/ml
12)	T Fluoranthene (C21.85)	12.287	6531852	39.689 ug/mlm
13)	T Pyrene (C20.8)	12.580	6433090	39.938 ug/ml
14)	T Benzo[a]anthracene (C...	14.450	6099525	41.716 ug/ml
15)	T Chrysene (C27.41)	14.492	6167098	37.492 ug/ml
16)	T benzo[b]fluoranthene ...	15.997	6137907	40.373 ug/ml
17)	T Bnezo[k]fluoranthene ...	16.031	6166756	41.029 ug/ml
18)	T Benzo[a]pyrene (C31.34)	16.373	5946675	39.514 ug/ml
19)	T Indeno[1,2,3-cd]pyren...	17.740	6034272	46.247 ug/ml
20)	T Dibenz[a,h]anthracene...	17.776	5931914	36.451 ug/ml
21)	T Benzo[g,h,i]perylene ...	17.991	5964067	38.957 ug/ml

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

Quantitation Report (QT Reviewed)

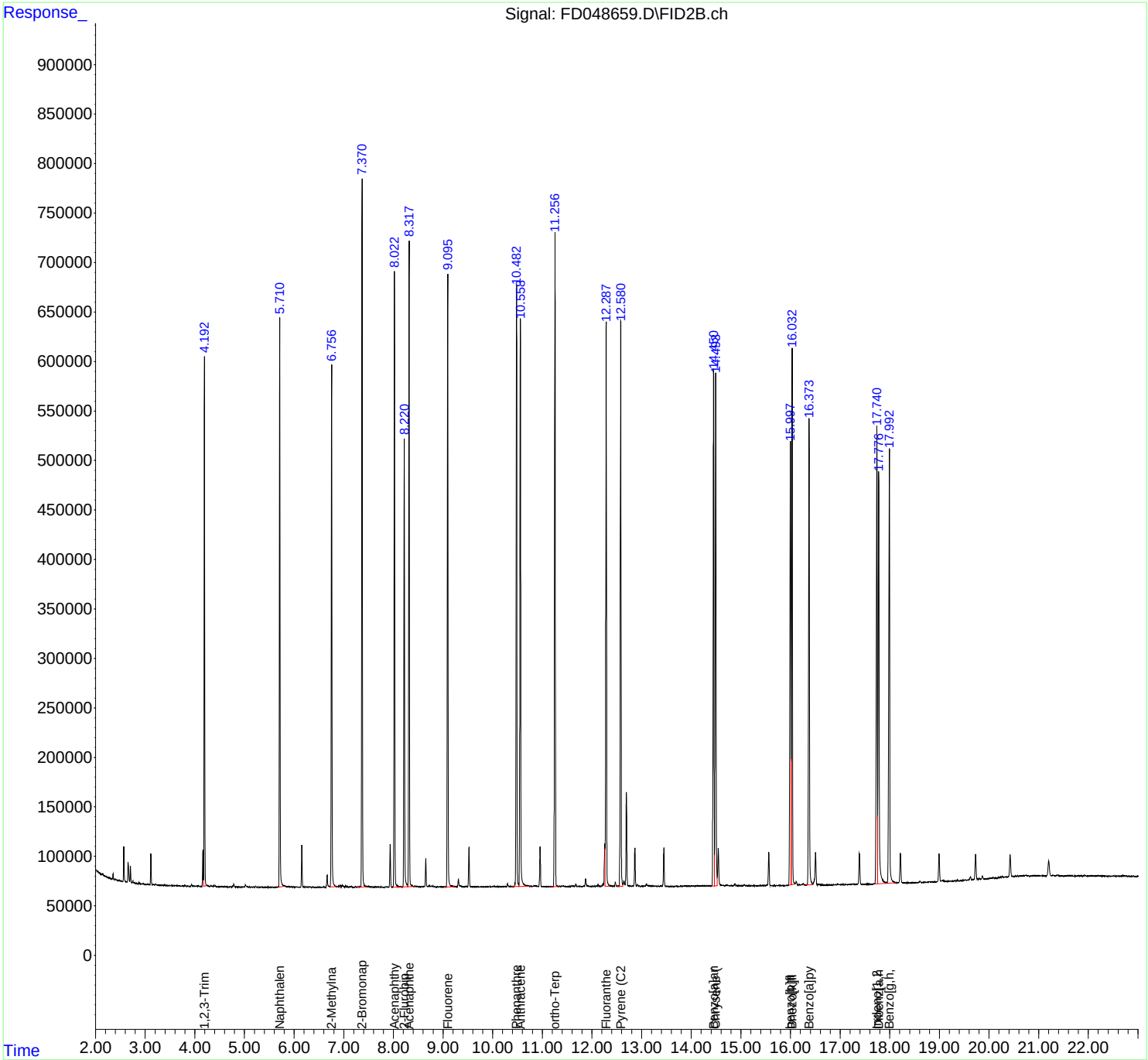
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD110424AR\
Data File : FD048659.D
Signal(s) : FID2B.ch
Acq On : 05 Nov 2024 03:35
Operator : YP/AJ
Sample : PB164618BS
Misc :
ALS Vial : 72 Sample Multiplier: 1

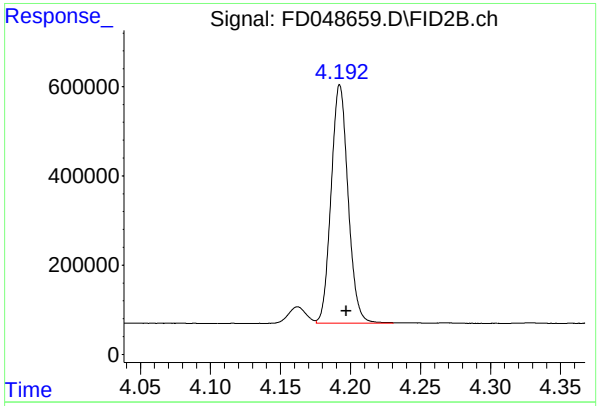
Instrument :
FID_D
ClientSampleId :
PB164618BS

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 11/06/2024
Supervised By :Ankita Jodhani 11/06/2024

Integration File: autoint1.e
Quant Time: Nov 05 05:19:38 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





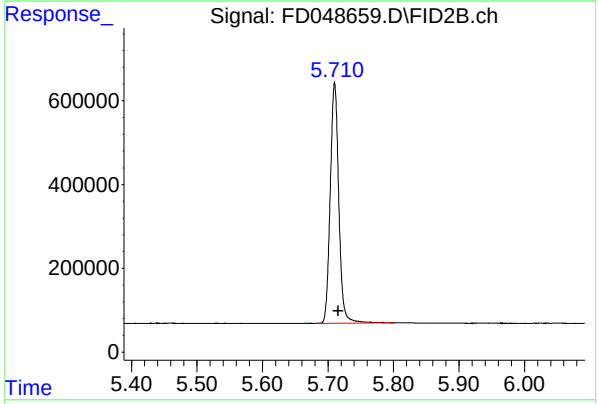
#1 1,2,3-Trimethylbenzene (C10.1)

R.T.: 4.192 min
Delta R.T.: -0.005 min
Response: 4506540
Conc: 25.90 ug/ml

Instrument :
FID_D
ClientSampleId :
PB164618BS

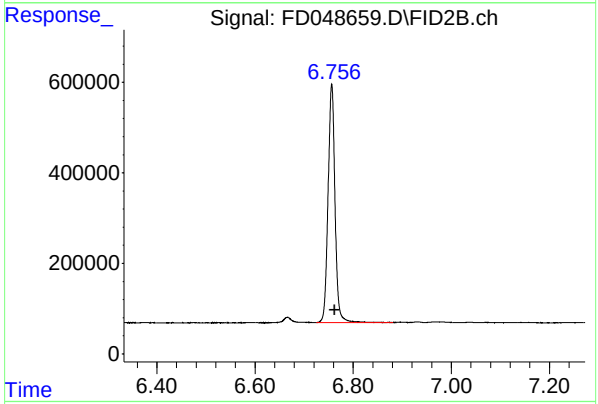
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/06/2024
Supervised By :Ankita Jodhani 11/06/2024



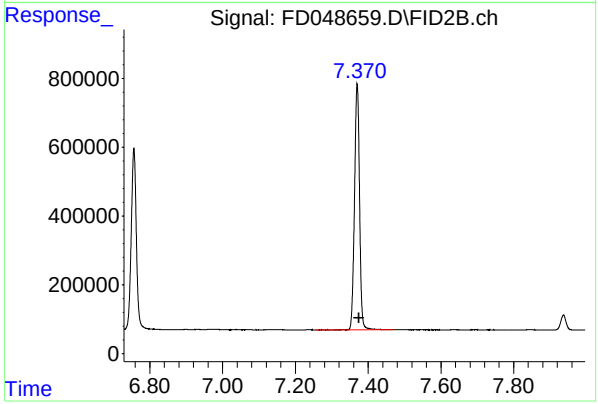
#2 Naphthalene (C11.7)

R.T.: 5.710 min
Delta R.T.: -0.006 min
Response: 5214426
Conc: 29.22 ug/ml m



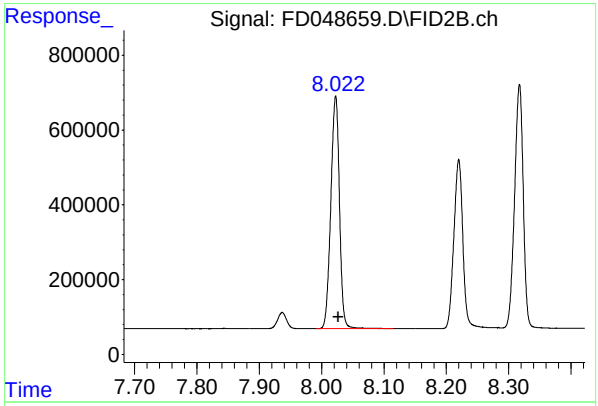
#3 2-Methylnaphthalene (C12.89)

R.T.: 6.756 min
Delta R.T.: -0.006 min
Response: 5177660
Conc: 28.95 ug/ml



#4 2-Bromonaphthalene (SURR)

R.T.: 7.370 min
Delta R.T.: -0.005 min
Response: 6877106
Conc: 45.31 ug/ml



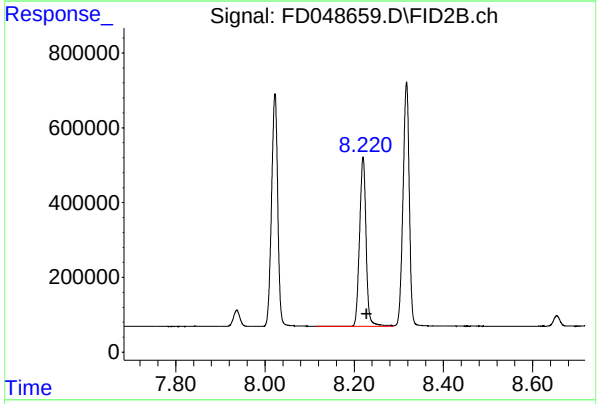
#5 Acenaphthylene (C15.06)

R.T.: 8.022 min
Delta R.T.: -0.004 min
Response: 5994787
Conc: 34.14 ug/ml

Instrument :
FID_D
ClientSampleId :
PB164618BS

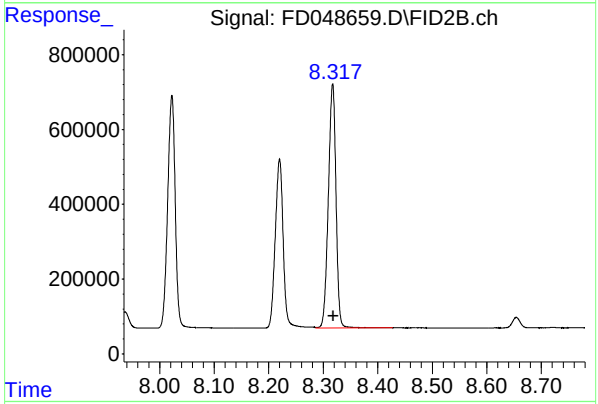
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/06/2024
Supervised By :Ankita Jodhani 11/06/2024



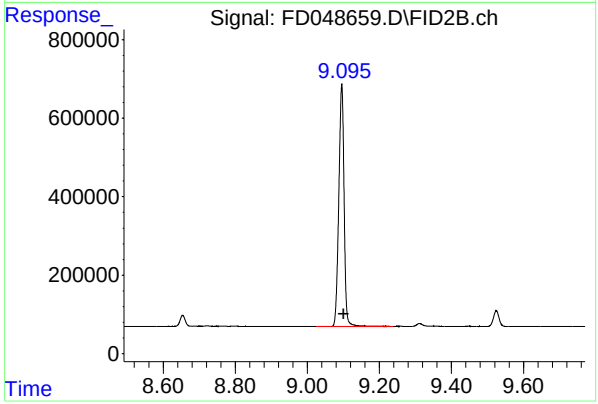
#6 2-Flurobiphenyl (SURR)

R.T.: 8.220 min
Delta R.T.: -0.008 min
Response: 4573507
Conc: 46.58 ug/ml



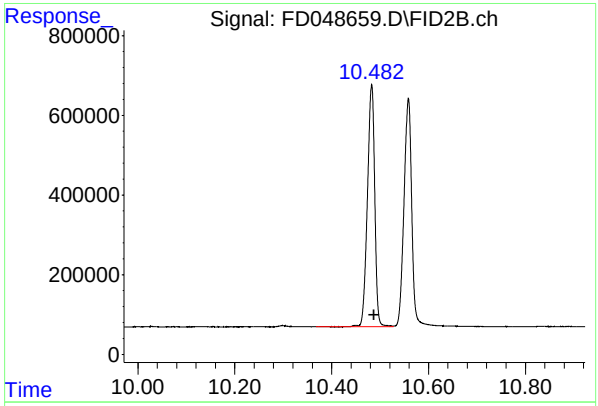
#7 Acenaphthene (C15.5)

R.T.: 8.317 min
Delta R.T.: -0.001 min
Response: 6348354
Conc: 35.79 ug/ml



#8 Flouorene (C16.55)

R.T.: 9.095 min
Delta R.T.: -0.005 min
Response: 6277188
Conc: 37.14 ug/ml



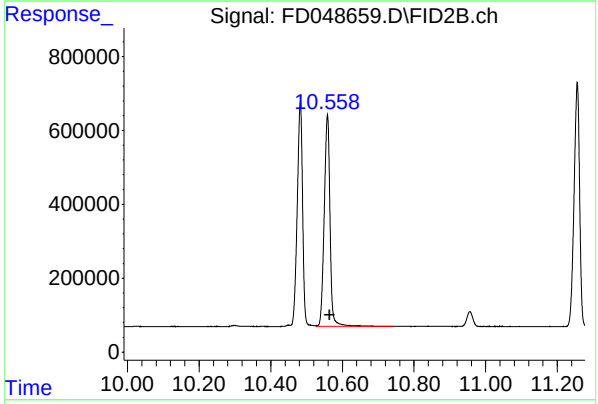
#9 Phenanthrene (C19.36)

R.T.: 10.482 min
Delta R.T.: -0.005 mi
Response: 6307922
Conc: 38.16 ug/m

Instrument :
FID_D
ClientSampleId :
PB164618BS

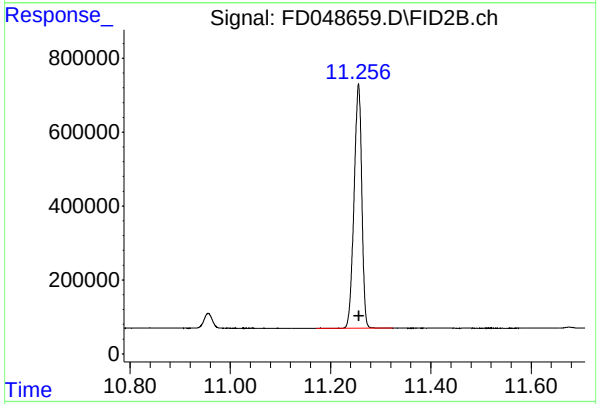
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/06/2024
Supervised By :Ankita Jodhani 11/06/2024



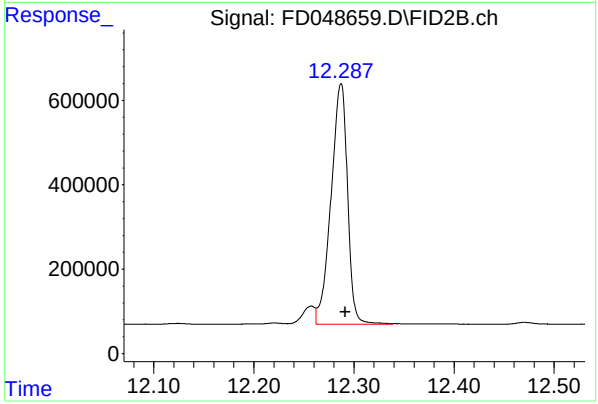
#10 Anthracene (C19.43)

R.T.: 10.558 min
Delta R.T.: -0.007 min
Response: 6421752
Conc: 40.16 ug/ml



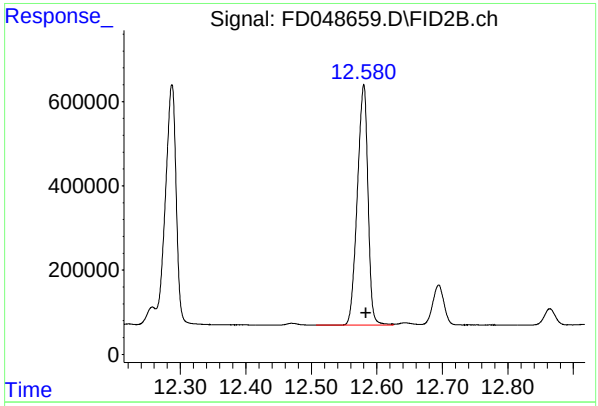
#11 ortho-Terphenyl (SURR)

R.T.: 11.255 min
Delta R.T.: -0.001 min
Response: 7054403
Conc: 41.41 ug/ml



#12 Fluoranthene (C21.85)

R.T.: 12.287 min
Delta R.T.: -0.004 min
Response: 6531852
Conc: 39.69 ug/ml m



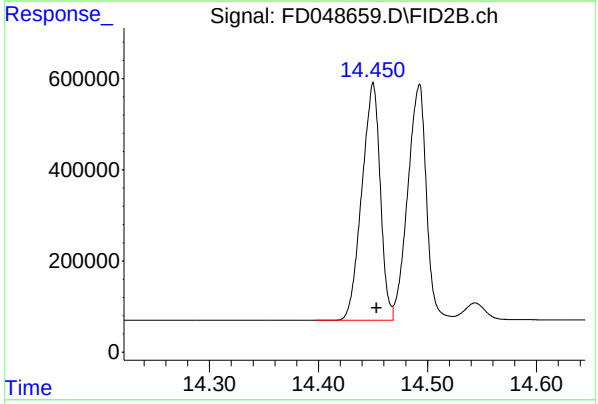
#13 Pyrene (C20.8)

R.T.: 12.580 min
Delta R.T.: -0.004 min
Response: 6433090
Conc: 39.94 ug/ml

Instrument :
FID_D
ClientSampleId :
PB164618BS

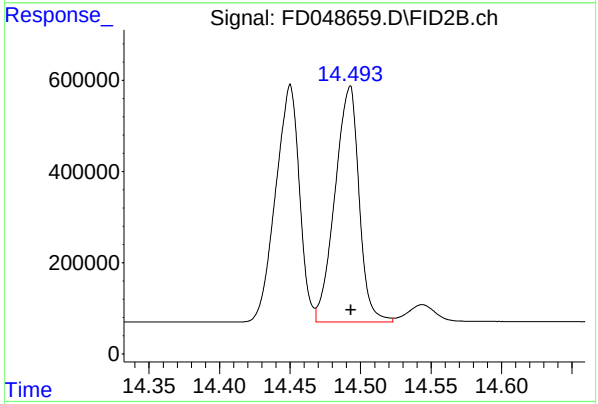
Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/06/2024
Supervised By :Ankita Jodhani 11/06/2024



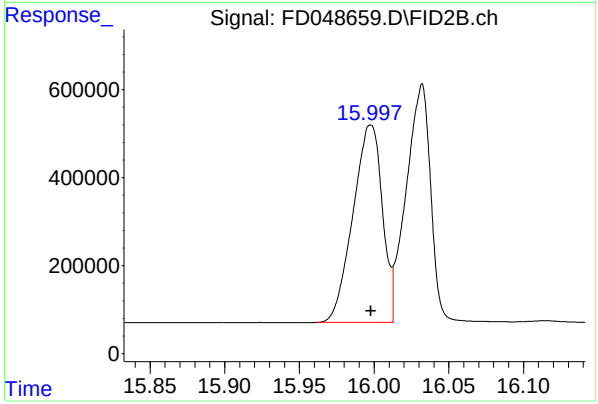
#14 Benzo[a]anthracene (C26.37)

R.T.: 14.450 min
Delta R.T.: -0.004 min
Response: 6099525
Conc: 41.72 ug/ml



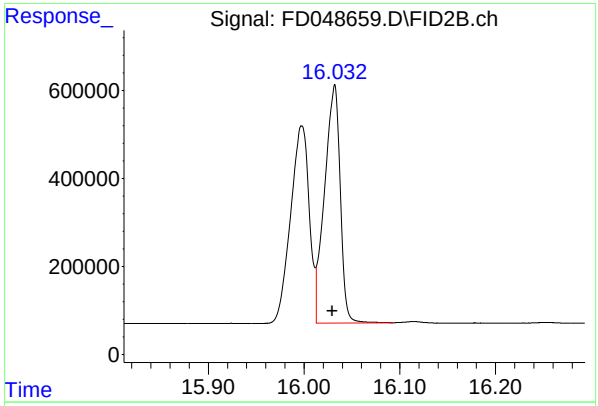
#15 Chrysene (C27.41)

R.T.: 14.492 min
Delta R.T.: -0.002 min
Response: 6167098
Conc: 37.49 ug/ml



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

R.T.: 15.997 min
Delta R.T.: 0.000 min
Response: 6137907
Conc: 40.37 ug/ml



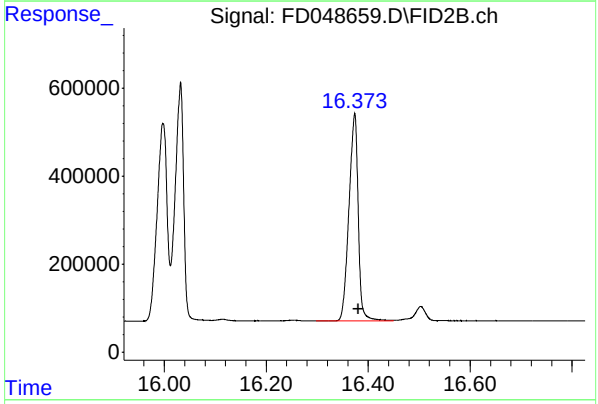
#17 Bnezo[k]fluoranthene (C30.14)

R.T.: 16.031 min
Delta R.T.: 0.002 min
Response: 6166756
Conc: 41.03 ug/ml

Instrument :
FID_D
ClientSampleId :
PB164618BS

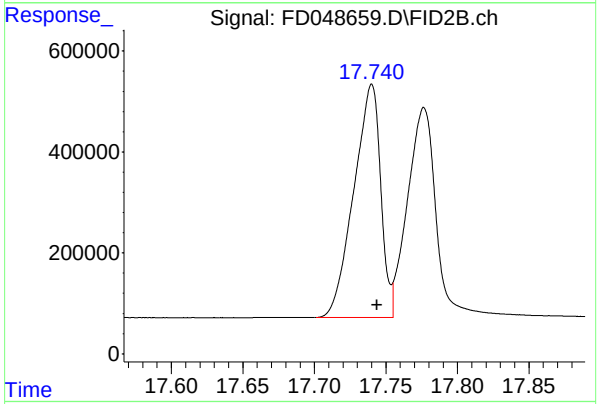
Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/06/2024
Supervised By :Ankita Jodhani 11/06/2024



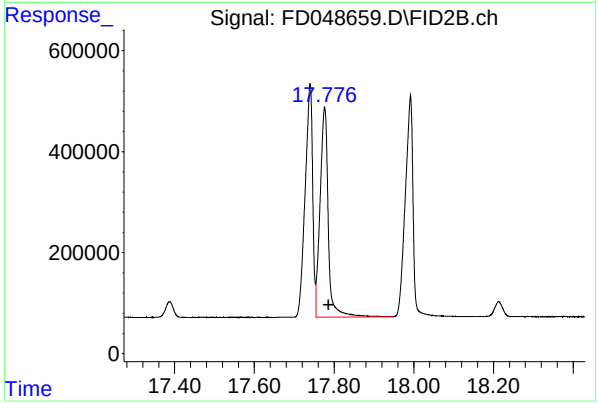
#18 Benzo[a]pyrene (C31.34)

R.T.: 16.373 min
Delta R.T.: -0.007 min
Response: 5946675
Conc: 39.51 ug/ml



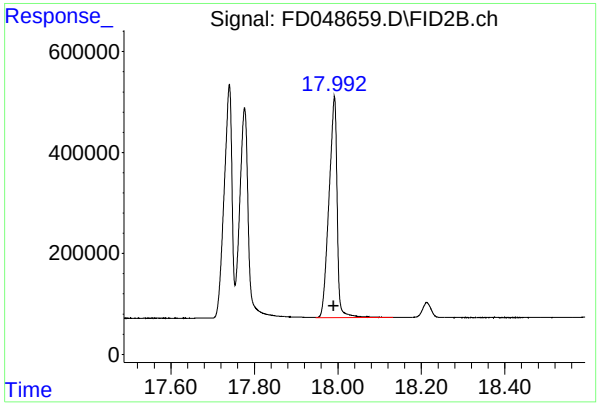
#19 Indeno[1,2,3-cd]pyrene (C35.01)

R.T.: 17.740 min
Delta R.T.: -0.004 min
Response: 6034272
Conc: 46.25 ug/ml



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

R.T.: 17.776 min
Delta R.T.: -0.010 min
Response: 5931914
Conc: 36.45 ug/ml



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

R.T.: 17.991 min
Delta R.T.: 0.001 mi
Response: 5964067
Conc: 38.96 ug/m

Instrument :
FID_D
ClientSampleId :
PB164618BS

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/06/2024
Supervised By :Ankita Jodhani 11/06/2024

Instrument :
FID_D
ClientSampleId :
PB164618BS

rteres

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/06/2024
Supervised By :Ankita Jodhani 11/06/2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD11042
Data File : FD048659.D
Signal(s) : FID2B.ch
Acq On : 05 Nov 2024 03:35
Sample : PB164618BS
Misc :
ALS Vial : 72 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	4.192	4.161	4.257	BV	506697	3682440	52.20%	2.929%
2	5.710	5.497	5.802	PV	572258	5175807	73.37%	4.118%
3	6.756	6.724	6.881	VV	528151	5177660	73.40%	4.119%
4	7.370	7.257	7.468	VV	715926	6877106	97.49%	5.471%
5	8.022	7.991	8.114	PV	616236	5994787	84.98%	4.769%
6	8.220	8.114	8.287	VV	453150	4573507	64.83%	3.638%
7	8.317	8.287	8.428	VB	657223	6348354	89.99%	5.050%
8	9.095	9.024	9.238	BB	611825	6277188	88.98%	4.994%
9	10.482	10.368	10.527	BV	601770	6307922	89.42%	5.018%
10	10.558	10.527	10.741	VV	571445	6421752	91.03%	5.109%
11	11.255	11.171	11.324	BB	653025	7054403	100.00%	5.612%
12	12.287	12.233	12.411	VB	577106	6930276	98.24%	5.513%
13	12.580	12.507	12.625	PV	579637	6433090	91.19%	5.118%
14	14.450	14.398	14.468	BV	524986	6099525	86.46%	4.852%
15	14.492	14.468	14.523	VV	510842	6167098	87.42%	4.906%
16	15.997	15.961	16.013	BV	450625	6137907	87.01%	4.883%
17	16.031	16.013	16.093	VV	534170	6166756	87.42%	4.906%
18	16.373	16.298	16.449	BV	477765	5946675	84.30%	4.731%
19	17.740	17.701	17.755	BV	469990	6034272	85.54%	4.800%
20	17.776	17.755	17.948	VV	418551	5931914	84.09%	4.719%
21	17.991	17.948	18.132	VV	437093	5964067	84.54%	4.745%

Sum of corrected areas: 125702505

Aromatic EPH 102324.M Tue Nov 05 05:23:07 2024

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

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	
Project:	RFP 872	Date Received:	
Client Sample ID:	PB164618BS	SDG No.:	P4620
Lab Sample ID:	PB164618BS	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
FC067622.D	1	11/03/24	11/05/24	PB164618

CAS Number	Parameter		Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
Aliphatic C9-C12	Aliphatic C9-C12		5.27		0.38	1.00	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16		5.13		0.24	0.67	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21		8.80		0.30	1.00	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28		12.0		0.80	1.33	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40		19.1		1.80	2.00	mg/kg
SURROGATES							
3383-33-2	1-chlorooctadecane (SURR)		39.7		40 - 140	79%	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:	PB164618BS	Acq On:	05 Nov 2024 03:35
Client Sample ID:	PB164618BS	Operator:	YP/AJ
Data file:	FC067622.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	3.171	6.449	10728120	79.192	300	ug/ml
Aliphatic C12-C16	6.450	9.838	10137001	76.981	200	ug/ml
Aliphatic C16-C21	9.839	13.196	16814416	132.152	300	ug/ml
Aliphatic C21-C28	13.197	16.847	21668378	180.434	400	ug/ml
Aliphatic C28-C40	16.848	21.685	28979002	286.656	600	ug/ml
Aliphatic EPH	3.171	21.685	88326917	755.416		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	12.929	12.929	4287468	39.7		ug/ml
Aliphatic C9-C28	3.171	16.847	59347915	468.759	1200	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC110424AL\
Data File : FC067622.D
Signal(s) : FID1A.ch
Acq On : 05 Nov 2024 03:35
Operator : YP/AJ
Sample : PB164618BS
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
PB164618BS

Integration File: autoint1.e
Quant Time: Nov 05 05:09:19 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...	12.929	4287468	39.703 ug/ml
Spiked Amount	50.000		Recovery =	79.41%
	Target Compounds			
1) T	n-Nonane (C9)	3.271	2733360	20.289 ug/ml
2) T	n-Decane (C10)	4.336	3566784	26.179 ug/ml
4) T	n-Dodecane (C12)	6.351	4427976	32.693 ug/ml
6) T	n-Tetradecane (C14)	8.143	4916197	37.454 ug/ml
7) T	n-Hexadecane (C16)	9.740	5220804	39.521 ug/ml
8) T	n-Octadecane (C18)	11.180	5519125	41.776 ug/ml
10) T	n-Eicosane (C20)	12.487	5743485	45.519 ug/ml
11) T	n-Heneicosane (C21)	13.098	5551806	44.985 ug/ml
13) T	n-Docosane (C22)	13.683	5538375	45.230 ug/ml
14) T	n-Tetracosane (C24)	14.784	5464488	45.083 ug/ml
15) T	n-Hexacosane (C26)	15.803	5365046	45.063 ug/ml
16) T	n-Octacosane (C28)	16.752	5300469	45.054 ug/ml
17) T	n-Tricontane (C30)	17.637	5324204	44.049 ug/ml
18) T	n-Dotriacontane (C32)	18.467	5227157	44.178 ug/ml
19) T	n-Tetratriacontane (C34)	19.249	5069961	48.411 ug/ml
20) T	n-Hexatriacontane (C36)	19.986	4725971	51.918 ug/ml
21) T	n-Octatriacontane (C38)	20.710	4458069	51.477 ug/ml
22) T	n-Tetracontane (C40)	21.591	4173640	49.095 ug/ml

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

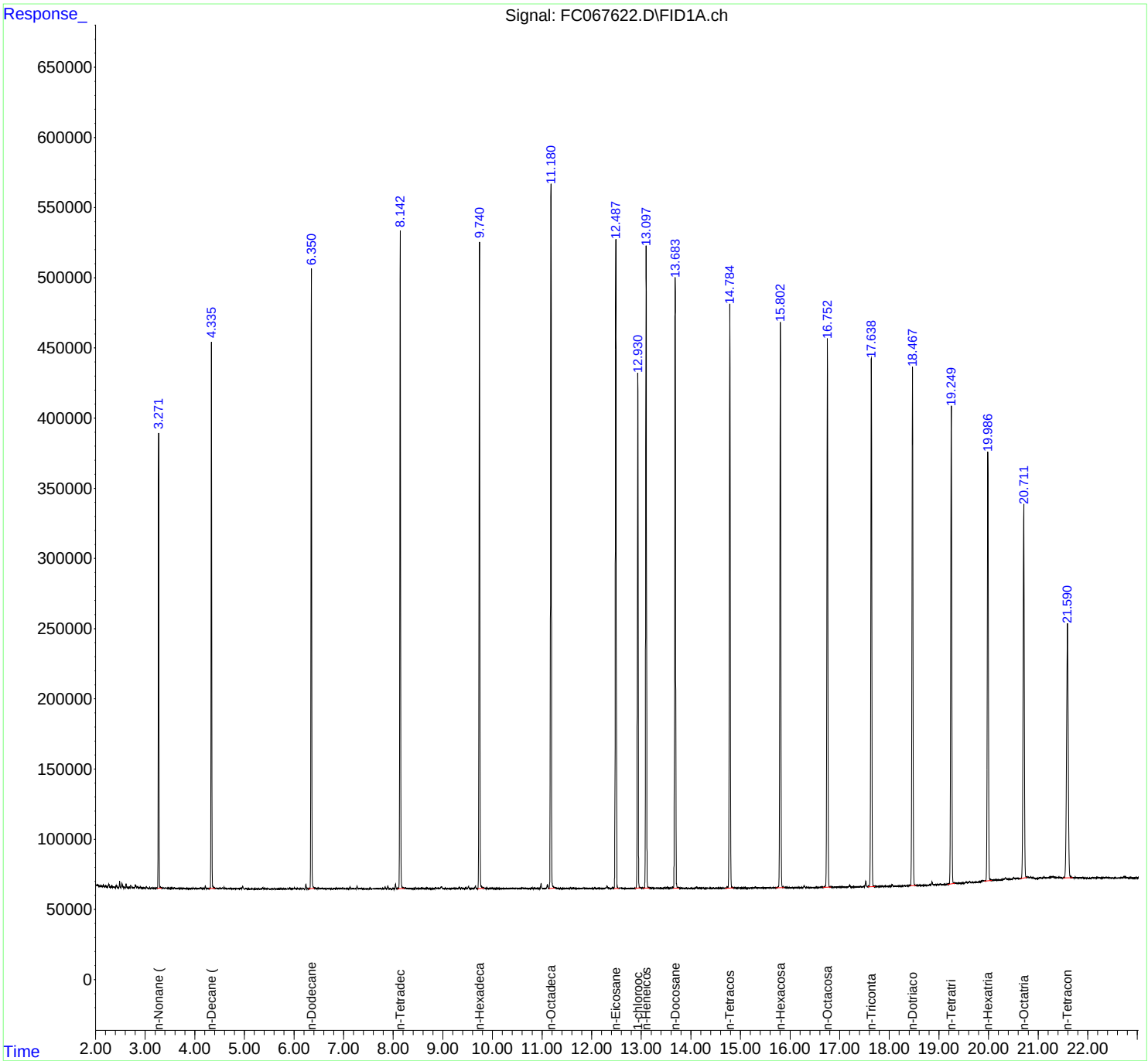
Quantitation Report (QT Reviewed)

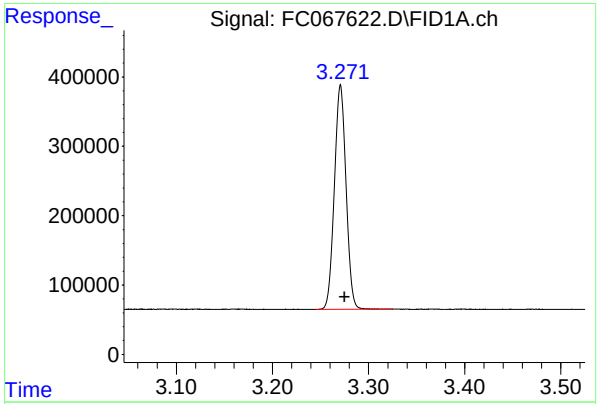
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC110424AL\
Data File : FC067622.D
Signal(s) : FID1A.ch
Acq On : 05 Nov 2024 03:35
Operator : YP/AJ
Sample : PB164618BS
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
PB164618BS

Integration File: autoint1.e
Quant Time: Nov 05 05:09:19 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

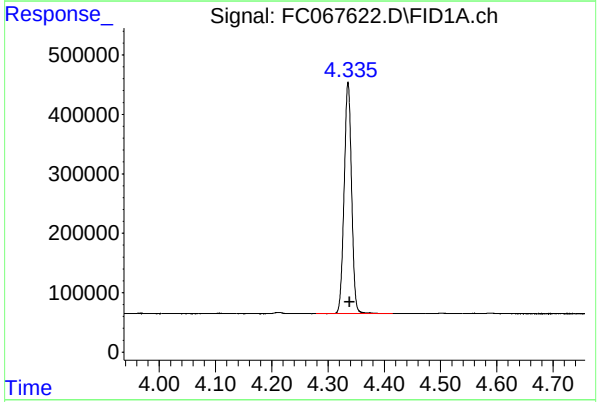




#1 n-Nonane (C9)

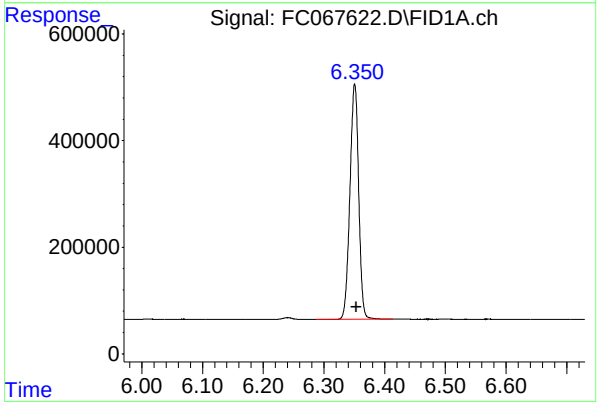
R.T.: 3.271 min
Delta R.T.: -0.004 min
Response: 2733360
Conc: 20.29 ug/ml

Instrument :
FID_C
ClientSampleId :
PB164618BS



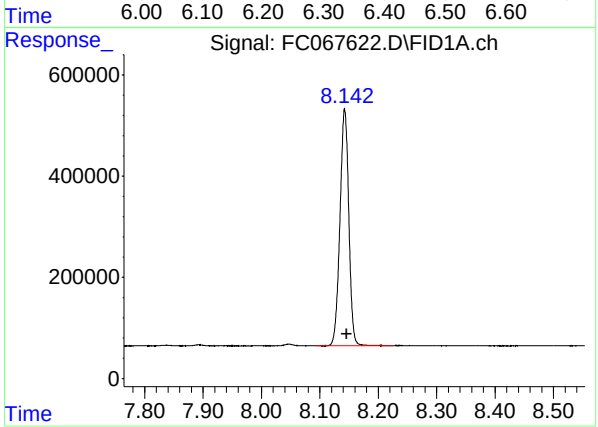
#2 n-Decane (C10)

R.T.: 4.336 min
Delta R.T.: -0.003 min
Response: 3566784
Conc: 26.18 ug/ml



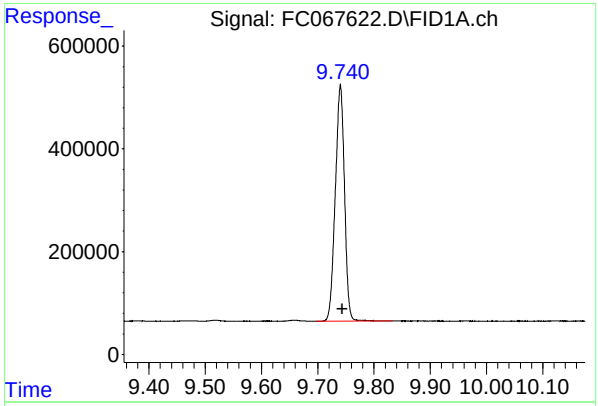
#4 n-Dodecane (C12)

R.T.: 6.351 min
Delta R.T.: -0.003 min
Response: 4427976
Conc: 32.69 ug/ml



#6 n-Tetradecane (C14)

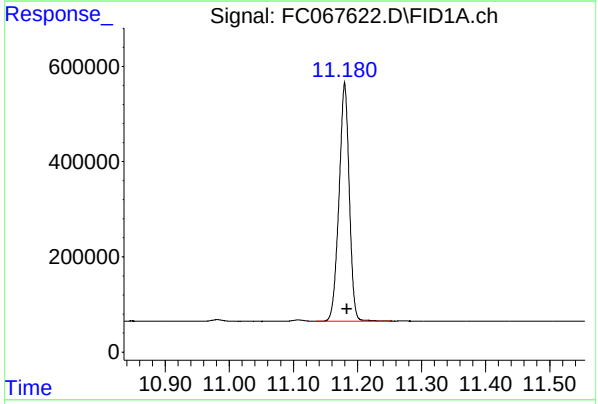
R.T.: 8.143 min
Delta R.T.: -0.003 min
Response: 4916197
Conc: 37.45 ug/ml



#7 n-Hexadecane (C16)

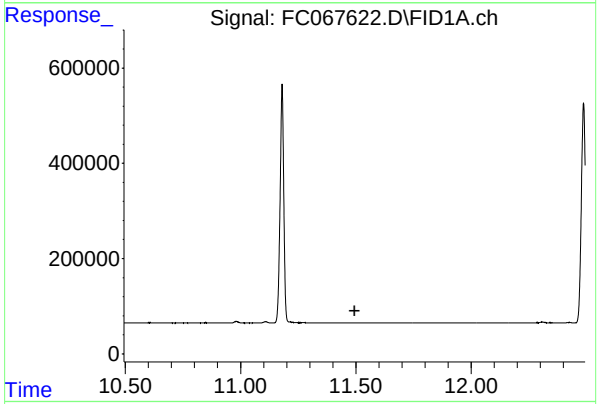
R.T.: 9.740 min
Delta R.T.: -0.003 min
Response: 5220804
Conc: 39.52 ug/ml

Instrument :
FID_C
ClientSampleId :
PB164618BS



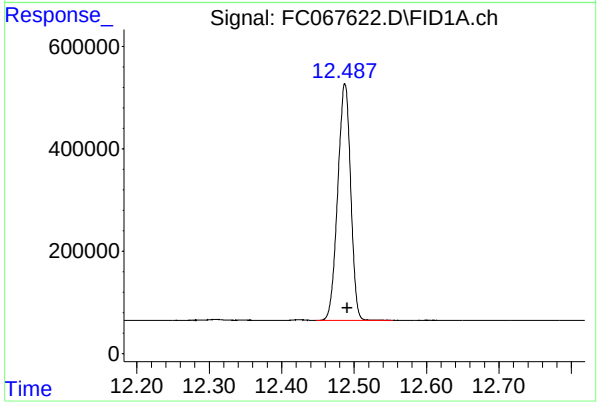
#8 n-Octadecane (C18)

R.T.: 11.180 min
Delta R.T.: -0.004 min
Response: 5519125
Conc: 41.78 ug/ml



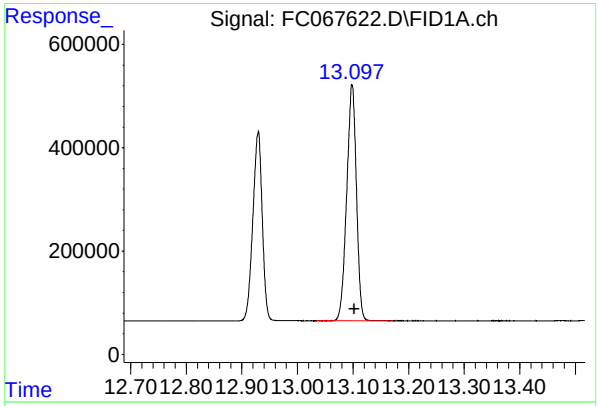
#9 ortho-Terphenyl (SURR)

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



#10 n-Eicosane (C20)

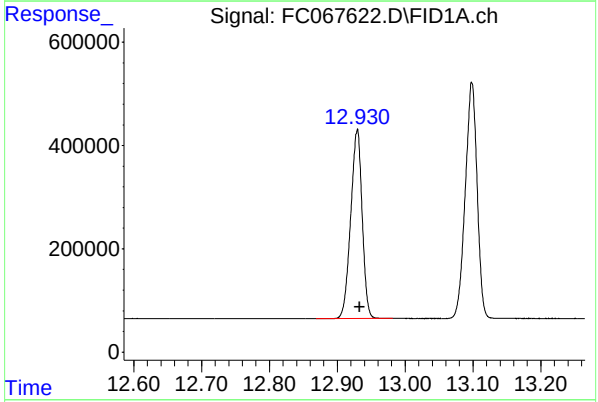
R.T.: 12.487 min
Delta R.T.: -0.004 min
Response: 5743485
Conc: 45.52 ug/ml



#11 n-Heneicosane (C21)

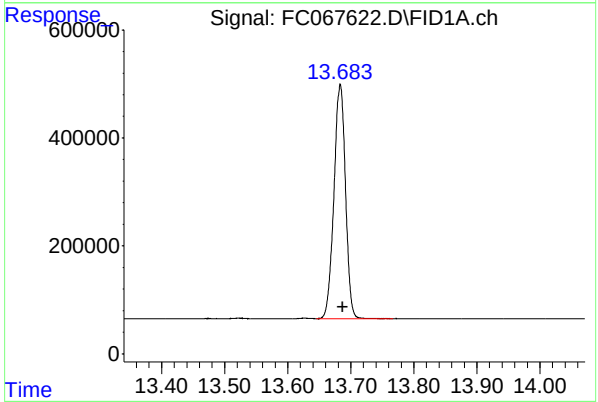
R.T.: 13.098 min
Delta R.T.: -0.004 min
Response: 5551806
Conc: 44.99 ug/ml

Instrument :
FID_C
ClientSampleId :
PB164618BS



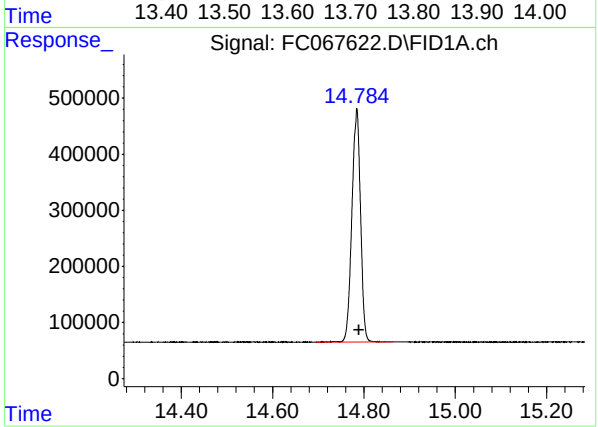
#12 1-chlorooctadecane (SURR)

R.T.: 12.929 min
Delta R.T.: -0.004 min
Response: 4287468
Conc: 39.70 ug/ml



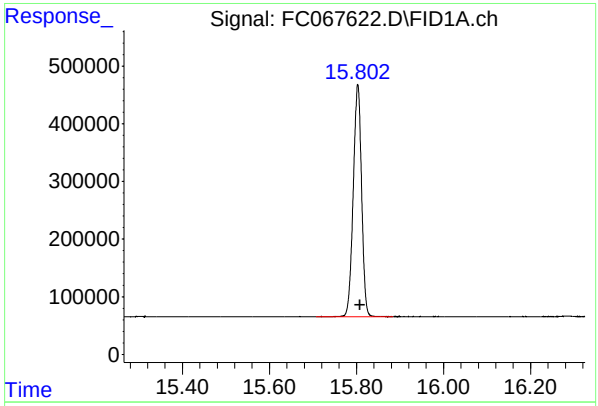
#13 n-Docosane (C22)

R.T.: 13.683 min
Delta R.T.: -0.004 min
Response: 5538375
Conc: 45.23 ug/ml



#14 n-Tetracosane (C24)

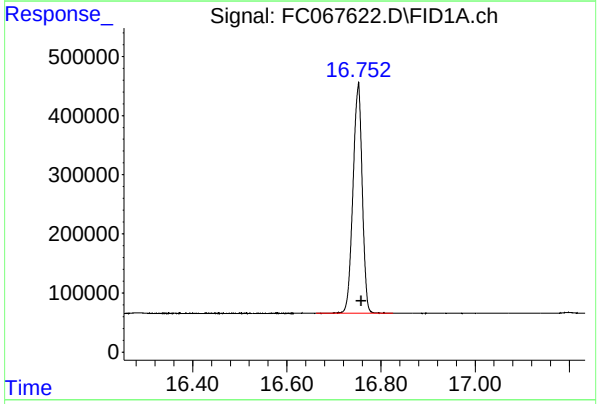
R.T.: 14.784 min
Delta R.T.: -0.005 min
Response: 5464488
Conc: 45.08 ug/ml



#15 n-Hexacosane (C26)

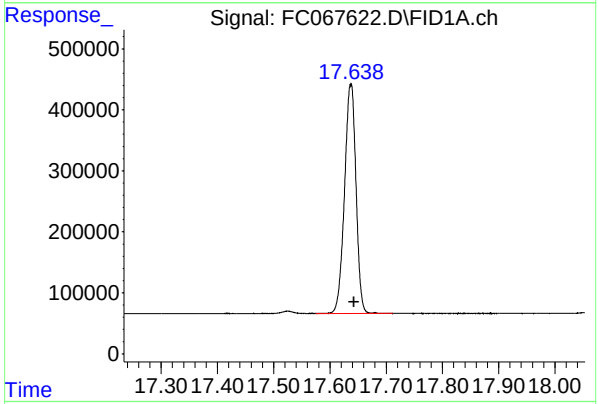
R.T.: 15.803 min
Delta R.T.: -0.005 min
Response: 5365046
Conc: 45.06 ug/ml

Instrument :
FID_C
ClientSampleId :
PB164618BS



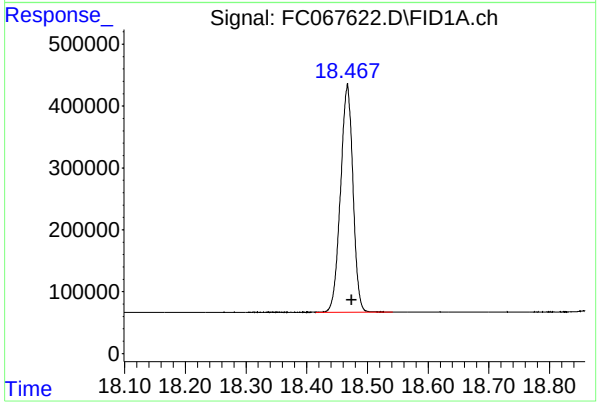
#16 n-Octacosane (C28)

R.T.: 16.752 min
Delta R.T.: -0.006 min
Response: 5300469
Conc: 45.05 ug/ml



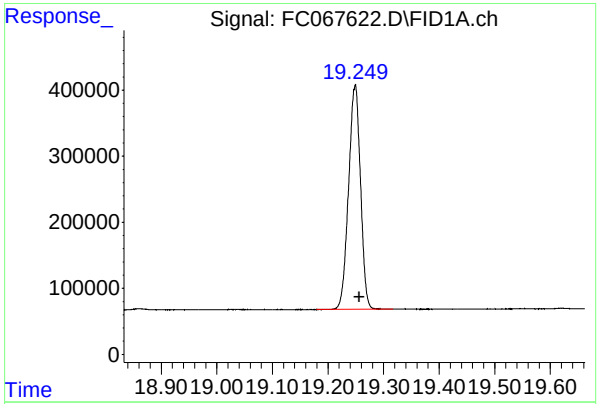
#17 n-Tricontane (C30)

R.T.: 17.637 min
Delta R.T.: -0.005 min
Response: 5324204
Conc: 44.05 ug/ml



#18 n-Dotriacontane (C32)

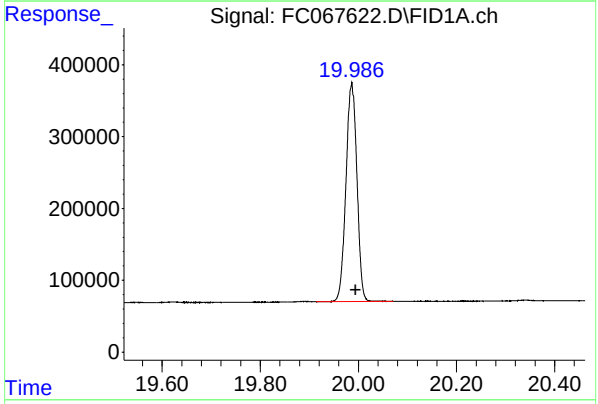
R.T.: 18.467 min
Delta R.T.: -0.007 min
Response: 5227157
Conc: 44.18 ug/ml



#19 n-Tetratriacontane (C34)

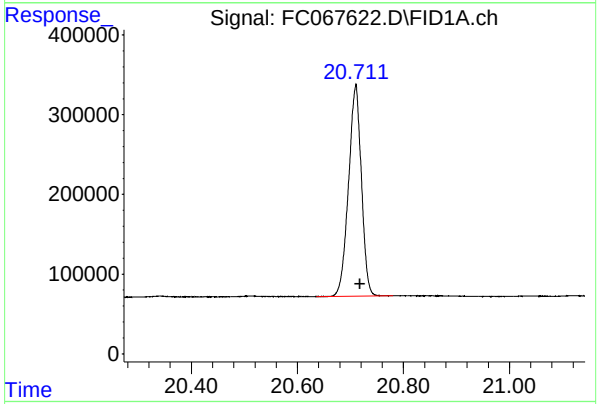
R.T.: 19.249 min
Delta R.T.: -0.008 min
Response: 5069961
Conc: 48.41 ug/ml

Instrument :
FID_C
ClientSampleId :
PB164618BS



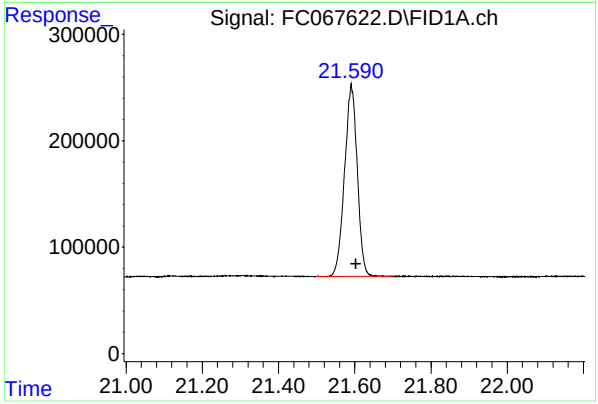
#20 n-Hexatriacontane (C36)

R.T.: 19.986 min
Delta R.T.: -0.008 min
Response: 4725971
Conc: 51.92 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 20.710 min
Delta R.T.: -0.008 min
Response: 4458069
Conc: 51.48 ug/ml



#22 n-Tetracontane (C40)

R.T.: 21.591 min
Delta R.T.: -0.012 min
Response: 4173640
Conc: 49.10 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC110424AL\
Data File : FC067622.D
Signal(s) : FID1A.ch
Acq On : 05 Nov 2024 03:35
Sample : PB164618BS
Misc :
ALS Vial : 22 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	3.271	3.245	3.325	BB	322796	2733360	47.59%	2.951%
2	4.336	4.279	4.415	BB	389128	3566784	62.10%	3.851%
3	6.351	6.287	6.414	BB	442566	4427976	77.10%	4.781%
4	8.143	8.094	8.225	BB	468476	4916197	85.60%	5.308%
5	9.740	9.697	9.834	BB	460467	5220804	90.90%	5.637%
6	11.180	11.135	11.255	PV	501420	5519125	96.09%	5.959%
7	12.487	12.447	12.554	PB	462724	5743485	100.00%	6.202%
8	12.929	12.869	12.982	BB	363789	4287468	74.65%	4.629%
9	13.098	13.034	13.172	BB	456858	5551806	96.66%	5.995%
10	13.683	13.645	13.767	VB	435490	5538375	96.43%	5.980%
11	14.784	14.695	14.864	BB	411347	5464488	95.14%	5.900%
12	15.803	15.707	15.884	BB	403056	5365046	93.41%	5.793%
13	16.752	16.662	16.825	BB	388852	5300469	92.29%	5.723%
14	17.637	17.575	17.712	BB	374880	5324204	92.70%	5.749%
15	18.467	18.415	18.542	BB	366865	5227157	91.01%	5.644%
16	19.249	19.179	19.317	BB	338800	5069961	88.27%	5.474%
17	19.986	19.914	20.070	BB	305271	4725971	82.28%	5.103%
18	20.710	20.635	20.780	BB	265773	4458069	77.62%	4.814%
19	21.591	21.499	21.700	BB	178257	4173640	72.67%	4.506%
			Sum of corrected areas:			92614386		

Aliphatic EPH 102324.M Tue Nov 05 05:30:51 2024

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

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	
Project:	RFP 872	Date Received:	
Client Sample ID:	PB164637BS	SDG No.:	P4620
Lab Sample ID:	PB164637BS	Matrix:	Water
Analytical Method:	NJEPH	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :	SW3510		

Prep Date :	Date Analyzed :	Prep Batch ID
11/03/24 08:20	11/04/24 18:46	PB164637

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	168		1	5.76	30.0	ug/l	FG014651.D
Aliphatic C12-C16	Aliphatic C12-C16	153		1	3.61	20.0	ug/l	FG014651.D
Aliphatic C16-C21	Aliphatic C16-C21	251		1	5.14	30.0	ug/l	FG014651.D
Aliphatic C21-C28	Aliphatic C21-C28	320		1	8.97	40.0	ug/l	FG014651.D
Aliphatic C28-C40	Aliphatic C28-C40	505		1	17.0	60.0	ug/l	FG014651.D
Aromatic C10-C12	Aromatic C10-C12	113		1	3.32	20.0	ug/l	FF014921.D
Aromatic C12-C16	Aromatic C12-C16	201		1	3.69	30.0	ug/l	FF014921.D
Aromatic C16-C21	Aromatic C16-C21	364		1	12.7	50.0	ug/l	FF014921.D
Aromatic C21-C36	Aromatic C21-C36	587		1	25.2	80.0	ug/l	FF014921.D
Total AliphaticEPH	Total AliphaticEPH	1400			40.5	180	ug/l	
Total AromaticEPH	Total AromaticEPH	1270			44.9	180	ug/l	
Total EPH	Total EPH	2660			85.4	360	ug/l	

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

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

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

Report of Analysis

Client:	Weston Solutions, Inc.		Date Collected:		
Project:	RFP 872		Date Received:		
Client Sample ID:	PB164637BS		SDG No.:	P4620	
Lab Sample ID:	PB164637BS		Matrix:	Water	
Analytical Method:	NJEPH		% Solid:	0	
Sample Wt/Vol:	1000 Units:	mL	Final Vol:	2000	uL
Soil Aliquot Vol:		uL	Test:	EPH	
Prep Method :	SW3510				

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FG014651.D	1	11/03/24	11/04/24	PB164637

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C12	Aliphatic C9-C12	168		5.76	30.0	ug/l
Aliphatic C12-C16	Aliphatic C12-C16	153		3.61	20.0	ug/l
Aliphatic C16-C21	Aliphatic C16-C21	251		5.14	30.0	ug/l
Aliphatic C21-C28	Aliphatic C21-C28	320		8.97	40.0	ug/l
Aliphatic C28-C40	Aliphatic C28-C40	505		17.0	60.0	ug/l
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	49.7		40 - 140	99%	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:	PB164637BS	Acq On:	04 Nov 2024 18:46
Client Sample ID:	PB164637BS	Operator:	YP\AJ
Data file:	FG014651.D	Misc:	
Instrument:	FID_G	ALS Vial:	26
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.228	6.849	11085014	84.399	300	ug/ml
Aliphatic C12-C16	6.850	10.292	10428416	76.78	200	ug/ml
Aliphatic C16-C21	10.293	13.665	17789181	125.941	300	ug/ml
Aliphatic C21-C28	13.666	17.329	22562945	160.498	400	ug/ml
Aliphatic C28-C40	17.330	22.266	26704406	252.675	600	ug/ml
Aliphatic EPH	3.228	22.266	88569962	700.291		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	13.399	13.399	6104525	49.71		ug/ml
Aliphatic C9-C28	3.228	17.329	61865556	447.618	1200	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG110424AL\
Data File : FG014651.D
Signal(s) : FID1A.ch
Acq On : 04 Nov 2024 18:46
Operator : YP\AJ
Sample : PB164637BS
Misc :
ALS Vial : 26 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
PB164637BS

Integration File: autoint1.e
Quant Time: Nov 05 00:38:37 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 102124.M
Quant Title : GC Extractables
QLast Update : Tue Oct 22 06:49:54 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...	13.399	6104525	49.715 ug/ml
Spiked Amount	50.000		Recovery =	99.43%
	Target Compounds			
1) T	n-Nonane (C9)	3.328	2804472	21.671 ug/ml
2) T	n-Decane (C10)	4.579	3696486	28.053 ug/ml
4) T	n-Dodecane (C12)	6.749	4584056	34.507 ug/ml
6) T	n-Tetradecane (C14)	8.581	5035105	37.949 ug/ml
7) T	n-Hexadecane (C16)	10.193	5393311	38.811 ug/ml
8) T	n-Octadecane (C18)	11.639	5741463	40.106 ug/ml
10) T	n-Eicosane (C20)	12.952	6119865	43.518 ug/ml
11) T	n-Heneicosane (C21)	13.566	5927853	42.352 ug/ml
13) T	n-Docosane (C22)	14.152	5927577	42.138 ug/ml
14) T	n-Tetracosane (C24)	15.257	5762101	40.494 ug/ml
15) T	n-Hexacosane (C26)	16.279	5546396	39.294 ug/ml
16) T	n-Octacosane (C28)	17.229	5326871	38.543 ug/ml
17) T	n-Tricontane (C30)	18.118	5172666	37.320 ug/ml
18) T	n-Dotriacontane (C32)	18.951	4938030	37.717 ug/ml
19) T	n-Tetratriacontane (C34)	19.733	4670680	41.729 ug/ml
20) T	n-Hexatriacontane (C36)	20.473	4265892	45.832 ug/ml
21) T	n-Octatriacontane (C38)	21.224	3973998	47.565 ug/ml
22) T	n-Tetracontane (C40)	22.165	3683140	48.435 ug/ml

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

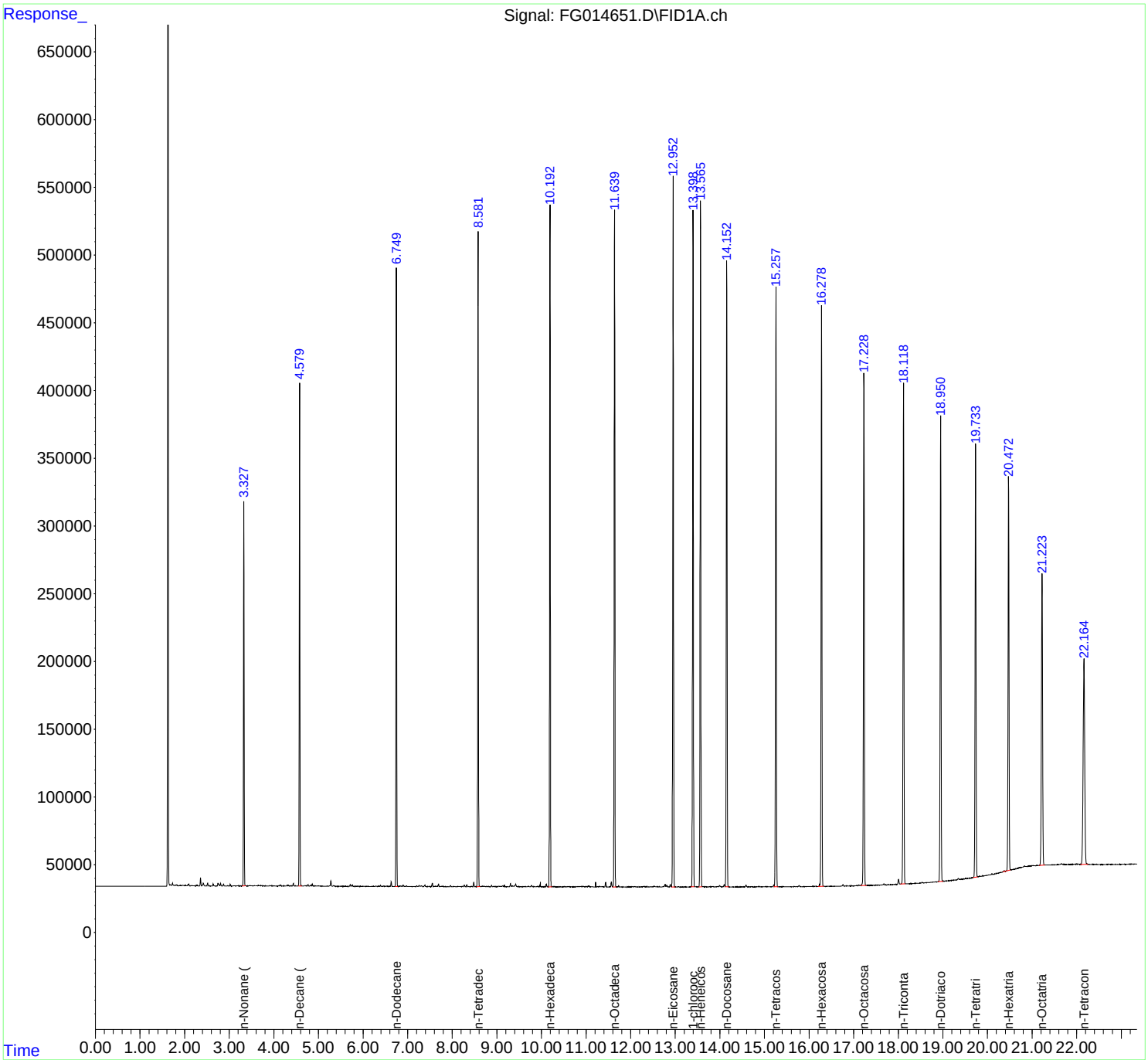
Quantitation Report (QT Reviewed)

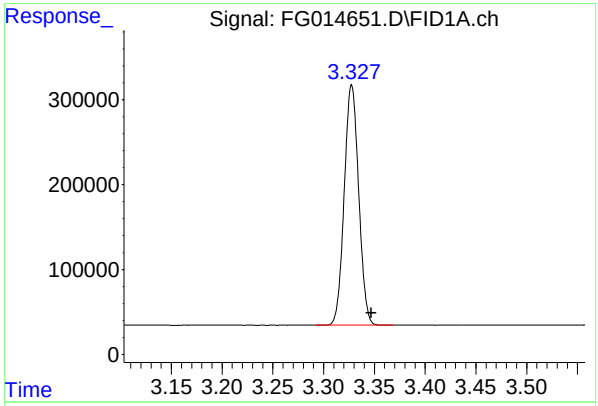
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG110424AL\
Data File : FG014651.D
Signal(s) : FID1A.ch
Acq On : 04 Nov 2024 18:46
Operator : YP\AJ
Sample : PB164637BS
Misc :
ALS Vial : 26 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
PB164637BS

Integration File: autoint1.e
Quant Time: Nov 05 00:38:37 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 102124.M
Quant Title : GC Extractables
QLast Update : Tue Oct 22 06:49:54 2024
Response via : Initial Calibration
Integrator: ChemStation

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

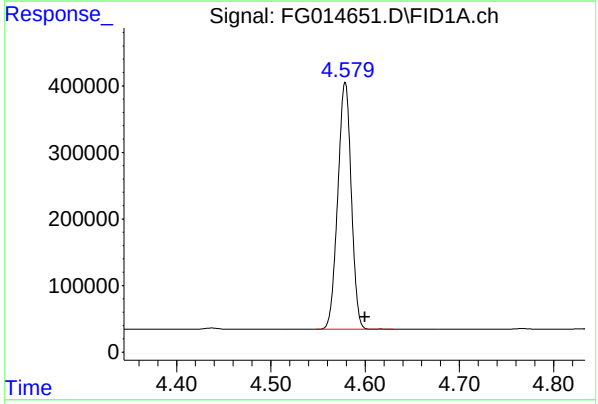




#1 n-Nonane (C9)

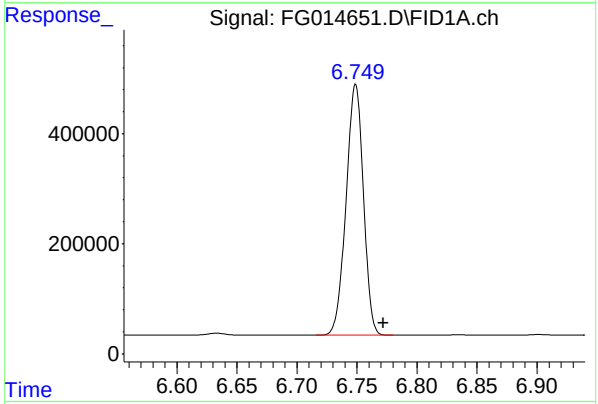
R.T.: 3.328 min
Delta R.T.: -0.019 min
Response: 2804472
Conc: 21.67 ug/ml

Instrument :
FID_G
ClientSampleId :
PB164637BS



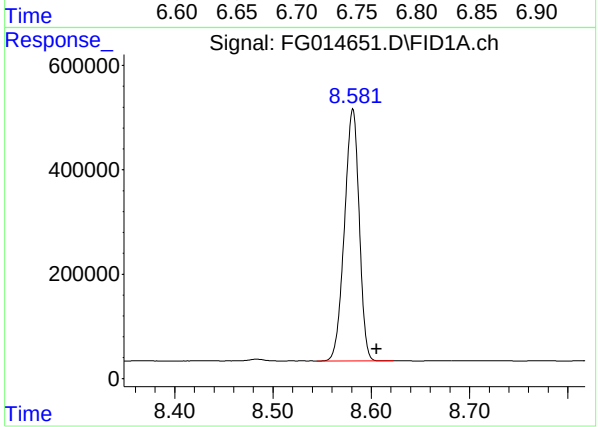
#2 n-Decane (C10)

R.T.: 4.579 min
Delta R.T.: -0.021 min
Response: 3696486
Conc: 28.05 ug/ml



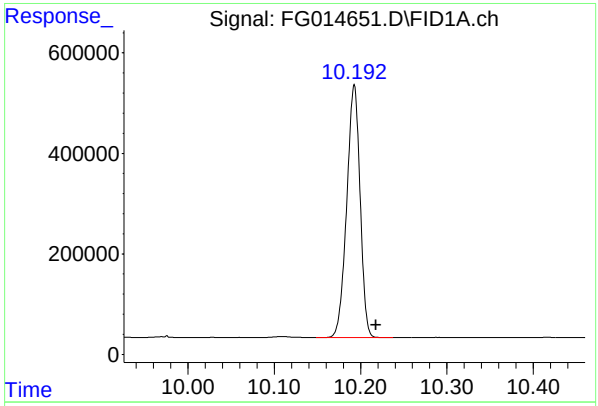
#4 n-Dodecane (C12)

R.T.: 6.749 min
Delta R.T.: -0.023 min
Response: 4584056
Conc: 34.51 ug/ml



#6 n-Tetradecane (C14)

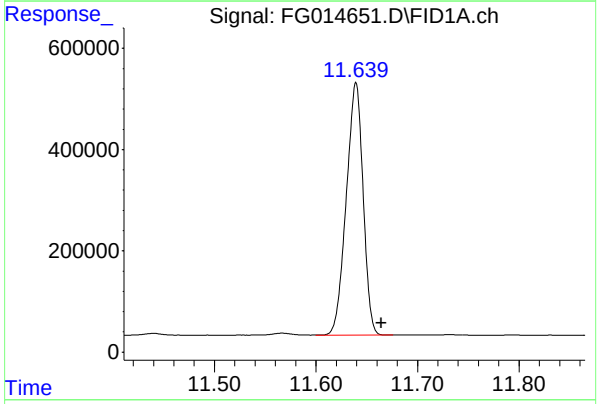
R.T.: 8.581 min
Delta R.T.: -0.024 min
Response: 5035105
Conc: 37.95 ug/ml



#7 n-Hexadecane (C16)

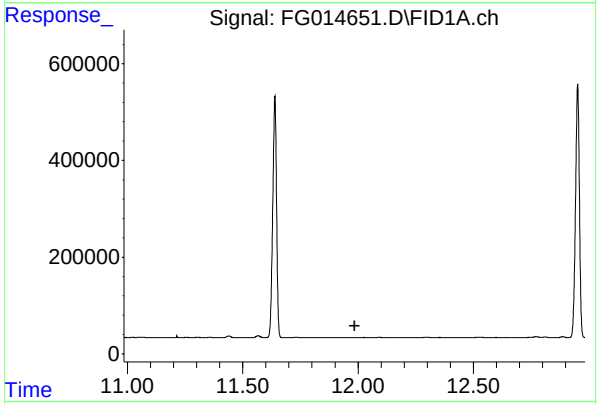
R.T.: 10.193 min
Delta R.T.: -0.025 min
Response: 5393311
Conc: 38.81 ug/ml

Instrument :
FID_G
ClientSampleId :
PB164637BS



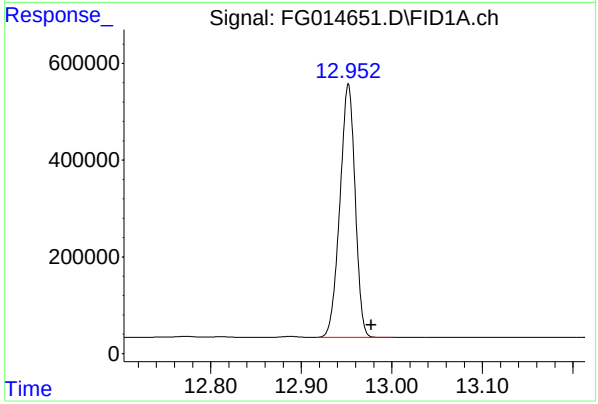
#8 n-Octadecane (C18)

R.T.: 11.639 min
Delta R.T.: -0.025 min
Response: 5741463
Conc: 40.11 ug/ml



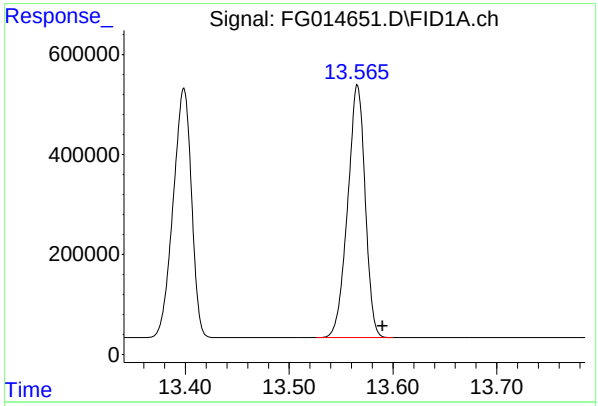
#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.984 min
Response: 0
Conc: N.D.



#10 n-Eicosane (C20)

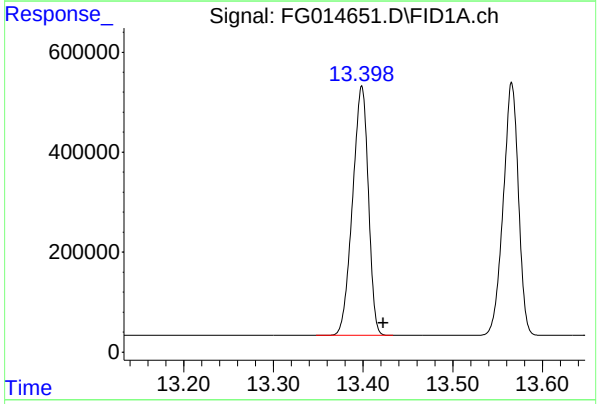
R.T.: 12.952 min
Delta R.T.: -0.025 min
Response: 6119865
Conc: 43.52 ug/ml



#11 n-Heneicosane (C21)

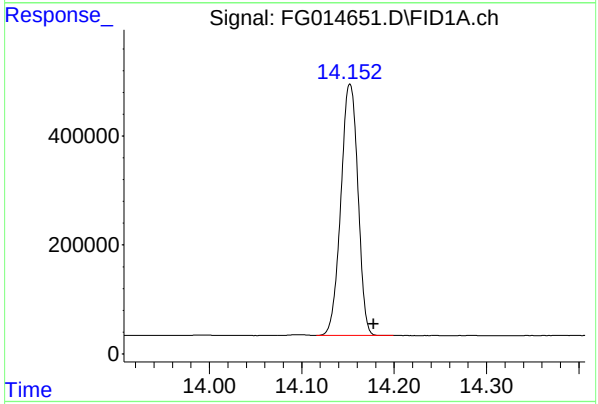
R.T.: 13.566 min
Delta R.T.: -0.024 min
Response: 5927853
Conc: 42.35 ug/ml

Instrument :
FID_G
ClientSampleId :
PB164637BS



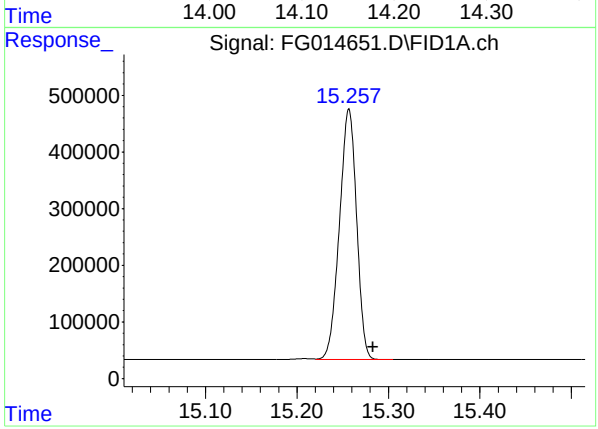
#12 1-chlorooctadecane (SURR)

R.T.: 13.399 min
Delta R.T.: -0.024 min
Response: 6104525
Conc: 49.71 ug/ml



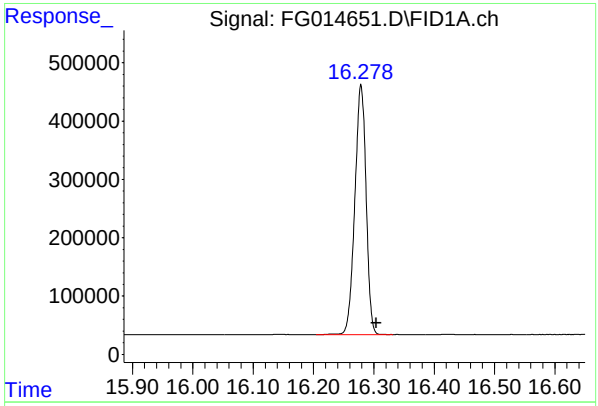
#13 n-Docosane (C22)

R.T.: 14.152 min
Delta R.T.: -0.026 min
Response: 5927577
Conc: 42.14 ug/ml



#14 n-Tetracosane (C24)

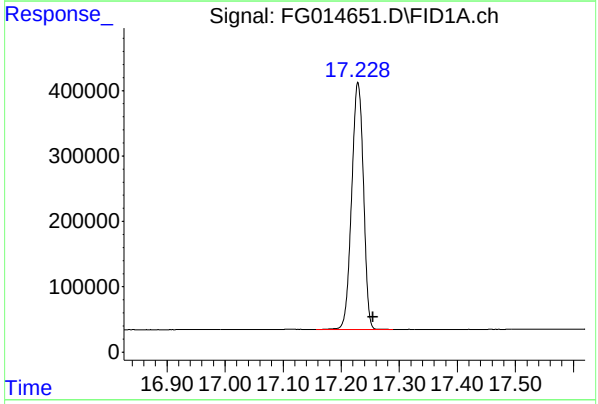
R.T.: 15.257 min
Delta R.T.: -0.027 min
Response: 5762101
Conc: 40.49 ug/ml



#15 n-Hexacosane (C26)

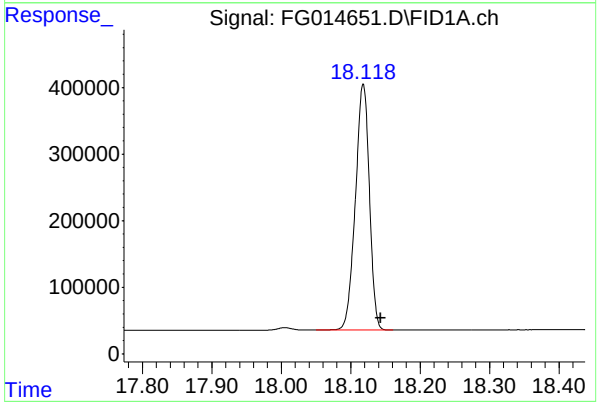
R.T.: 16.279 min
Delta R.T.: -0.025 min
Response: 5546396
Conc: 39.29 ug/ml

Instrument :
FID_G
ClientSampleId :
PB164637BS



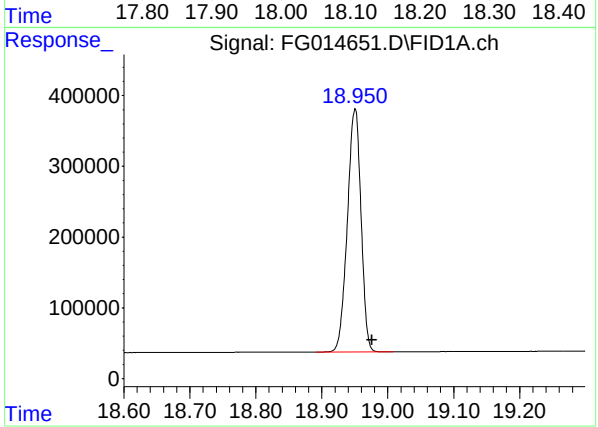
#16 n-Octacosane (C28)

R.T.: 17.229 min
Delta R.T.: -0.026 min
Response: 5326871
Conc: 38.54 ug/ml



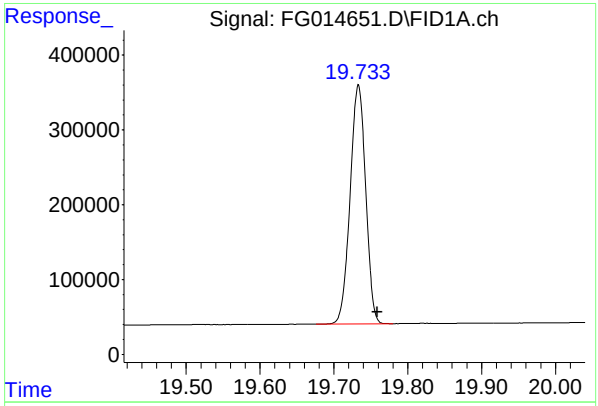
#17 n-Tricontane (C30)

R.T.: 18.118 min
Delta R.T.: -0.025 min
Response: 5172666
Conc: 37.32 ug/ml



#18 n-Dotriacontane (C32)

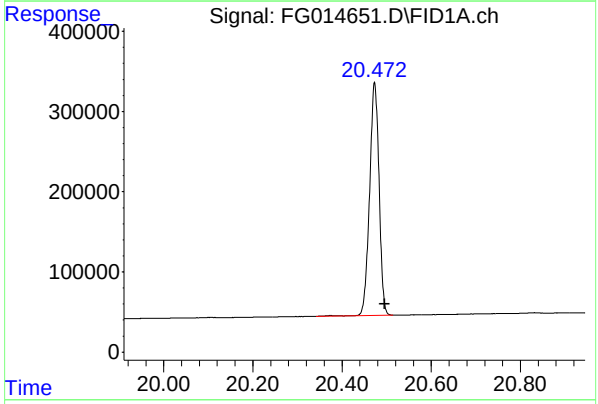
R.T.: 18.951 min
Delta R.T.: -0.026 min
Response: 4938030
Conc: 37.72 ug/ml



#19 n-Tetratriacontane (C34)

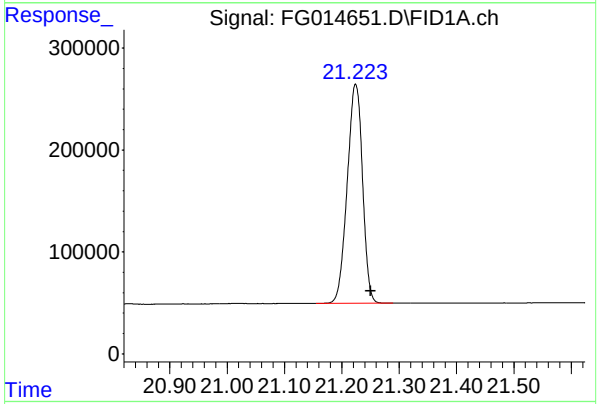
R.T.: 19.733 min
Delta R.T.: -0.025 min
Response: 4670680
Conc: 41.73 ug/ml

Instrument :
FID_G
ClientSampleId :
PB164637BS



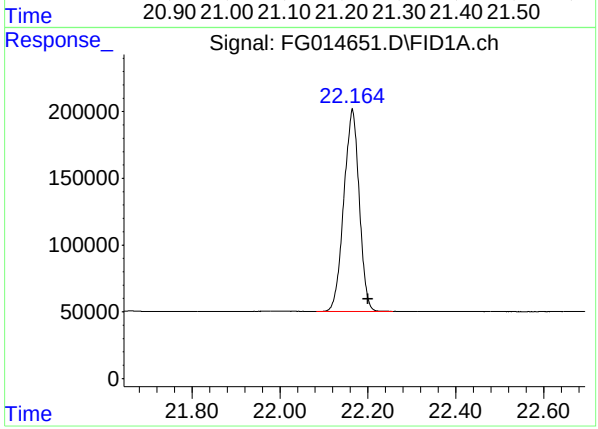
#20 n-Hexatriacontane (C36)

R.T.: 20.473 min
Delta R.T.: -0.022 min
Response: 4265892
Conc: 45.83 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 21.224 min
Delta R.T.: -0.027 min
Response: 3973998
Conc: 47.57 ug/ml



#22 n-Tetracontane (C40)

R.T.: 22.165 min
Delta R.T.: -0.036 min
Response: 3683140
Conc: 48.44 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG110424AL\
Data File : FG014651.D
Signal(s) : FID1A.ch
Acq On : 04 Nov 2024 18:46
Sample : PB164637BS
Misc :
ALS Vial : 26 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 102124.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	3.328	3.293	3.368	BB	283719	2804472	45.83%	2.962%
2	4.579	4.548	4.630	BB	371556	3696486	60.40%	3.904%
3	6.749	6.716	6.780	BB	456384	4584056	74.90%	4.842%
4	8.581	8.544	8.623	BB	483310	5035105	82.27%	5.318%
5	10.193	10.148	10.238	BB	502974	5393311	88.13%	5.697%
6	11.639	11.600	11.676	BB	499368	5741463	93.82%	6.064%
7	12.952	12.917	13.002	BB	524051	6119865	100.00%	6.464%
8	13.399	13.348	13.433	BB	499123	6104525	99.75%	6.448%
9	13.566	13.526	13.600	BB	505713	5927853	96.86%	6.261%
10	14.152	14.116	14.199	VB	462399	5927577	96.86%	6.261%
11	15.257	15.221	15.305	VB	442433	5762101	94.15%	6.086%
12	16.279	16.204	16.332	BB	428729	5546396	90.63%	5.858%
13	17.229	17.157	17.289	BB	378035	5326871	87.04%	5.627%
14	18.118	18.050	18.161	BB	369697	5172666	84.52%	5.464%
15	18.951	18.892	19.008	BB	343950	4938030	80.69%	5.216%
16	19.733	19.676	19.780	BB	320001	4670680	76.32%	4.933%
17	20.473	20.342	20.514	BB	290322	4265892	69.71%	4.506%
18	21.224	21.155	21.289	BB	215204	3973998	64.94%	4.198%
19	22.165	22.083	22.258	BB	152036	3683140	60.18%	3.890%
			Sum of corrected areas:			94674487		

Aliphatic EPH 102124.M Tue Nov 05 01:22:25 2024

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

Report of Analysis

Client:	Weston Solutions, Inc.			Date Collected:	
Project:	RFP 872			Date Received:	
Client Sample ID:	PB164637BS			SDG No.:	P4620
Lab Sample ID:	PB164637BS			Matrix:	Water
Analytical Method:	NJEPH			% Solid:	0
Sample Wt/Vol:	1000	Units:	mL	Final Vol:	2000 uL
Soil Aliquot Vol:			uL	Test:	EPH
Prep Method :	SW3510				

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FF014921.D	1	11/03/24	11/04/24	PB164637

CAS Number	Parameter		Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
Aromatic C10-C12	Aromatic C10-C12		113		3.32	20.0	ug/l
Aromatic C12-C16	Aromatic C12-C16		201		3.69	30.0	ug/l
Aromatic C16-C21	Aromatic C16-C21		364		12.7	50.0	ug/l
Aromatic C21-C36	Aromatic C21-C36		587		25.2	80.0	ug/l
SURROGATES							
580-13-2	2-Bromonaphthalene (SURR)		49.2		40 - 140	98%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)		49.3		40 - 140	99%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)		39.7		40 - 140	79%	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:	PB164637BS	Acq On:	04 Nov 2024 18:46
Client Sample ID:	PB164637BS	Operator:	YP\AJ
Data file:	FF014921.D	Misc:	
Instrument:	FID_F	ALS Vial:	76
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.508	6.372	8882817	56.91	200	ug/ml
Aromatic C12-C16	6.373	9.064	16049640	100.549	300	ug/ml
Aromatic C16-C21	9.065	13.375	28326014	182.294	500	ug/ml
Aromatic C21-C36	13.376	18.817	43612238	293.795	800	ug/ml
Aromatic EPH	4.508	18.817	96870709	633.548		ug/ml
2-Bromonaphthalene (SURR)	7.993	7.993	6865390	49.23		ug/ml
2-Flurobiphenyl (SURR)	8.867	8.867	4649329	49.3		ug/ml
ortho-Terphenyl (SURR)	11.927	11.927	6346201	39.67		ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF110424AR\
Data File : FF014921.D
Signal(s) : FID2B.ch
Acq On : 04 Nov 2024 18:46
Operator : YP\AJ
Sample : PB164637BS
Misc :
ALS Vial : 76 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
PB164637BS

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 11/06/2024
Supervised By :Ankita Jodhani 11/06/2024

Integration File: autoint1.e
Quant Time: Nov 05 01:27:47 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 102124.M
Quant Title : GC Extractables
QLast Update : Tue Oct 22 04:14:53 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...	7.993	6865390	49.234 ug/ml
Spiked Amount	50.000		Recovery =	98.47%
6) S	2-Flurobiphenyl (SURR)	8.867	4649329	49.298 ug/ml
Spiked Amount	50.000 Range	0 - 131	Recovery =	98.60%
11) S	ortho-Terphenyl (SURR)	11.927	6346201	39.669 ug/ml
Spiked Amount	50.000		Recovery =	79.34%
	Target Compounds			
1) T	1,2,3-Trimethylbenzen...	4.608	4090612	26.892 ug/ml
2) T	Naphthalene (C11.7)	6.272	4792205	29.940 ug/ml
3) T	2-Methylnaphthalene (...	7.366	4786591	29.587 ug/ml
5) T	Acenaphthylene (C15.06)	8.667	5484665	34.622 ug/ml
7) T	Acenaphthene (C15.5)	8.966	5778384	36.419 ug/ml
8) T	Flouorene (C16.55)	9.754	5747906	36.431 ug/ml
9) T	Phenanthrene (C19.36)	11.159	5717048	36.316 ug/ml
10) T	Anthracene (C19.43)	11.235	5643733	37.519 ug/ml
12) T	Fluoranthene (C21.85)	12.979	5640490	35.792 ug/ml
13) T	Pyrene (C20.8)	13.278	5576837	35.767 ug/ml
14) T	Benzo[a]anthracene (C...	15.157	5442345	35.814 ug/ml
15) T	Chrysene (C27.41)	15.202	6124515	39.630 ug/mlm
16) T	benzo[b]fluoranthene ...	16.714	5459731	35.711 ug/ml
17) T	Bnezo[k]fluoranthene ...	16.749	5350229	37.035 ug/mlm
18) T	Benzo[a]pyrene (C31.34)	17.094	5187671	34.755 ug/ml
19) T	Indeno[1,2,3-cd]pyren...	18.466	5586016	40.729 ug/ml
20) T	Dibenz[a,h]anthracene...	18.505	5015005	34.521 ug/mlm
21) T	Benzo[g,h,i]perylene ...	18.724	5409689	37.866 ug/ml

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

Quantitation Report (QT Reviewed)

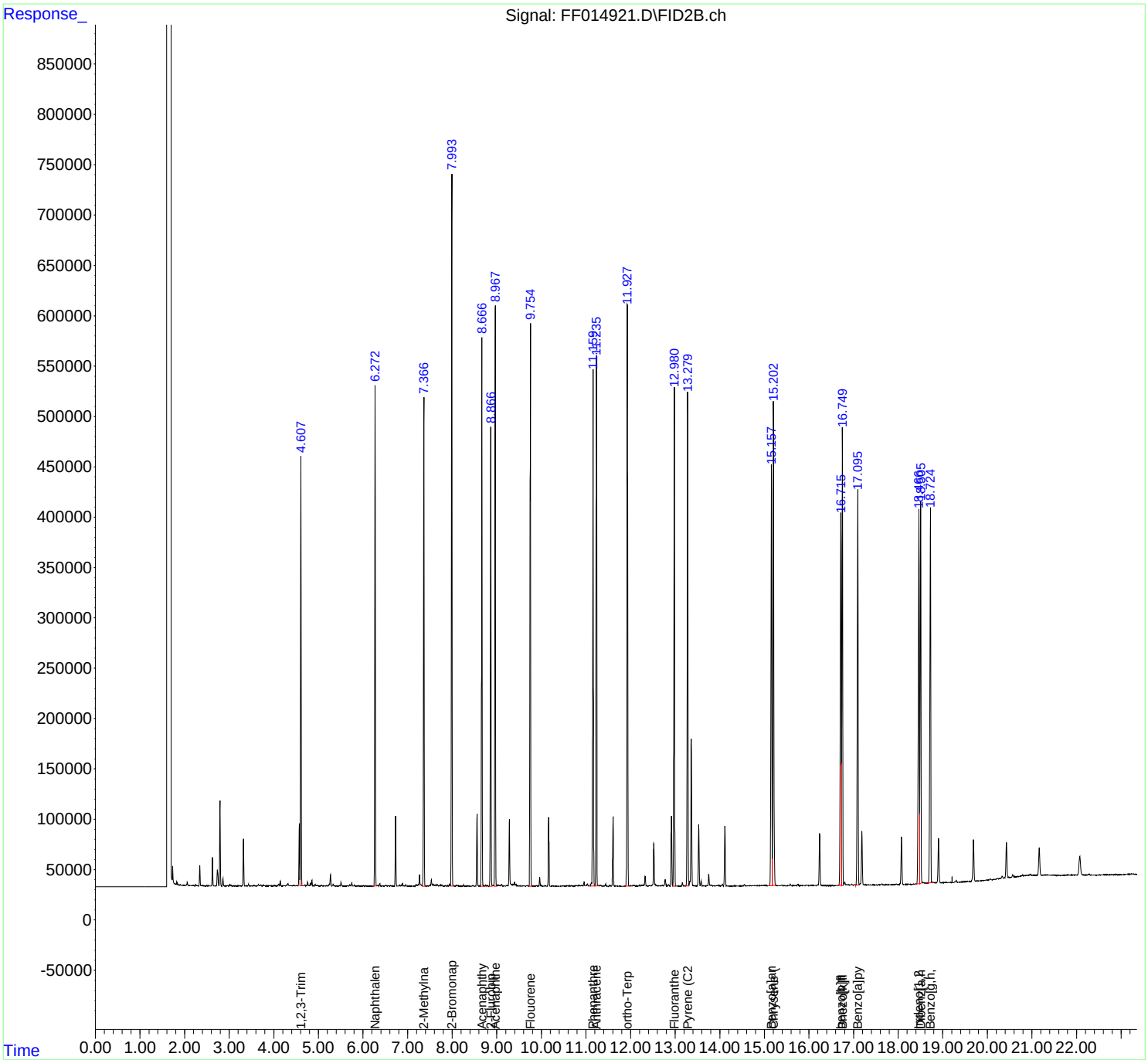
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF110424AR\
Data File : FF014921.D
Signal(s) : FID2B.ch
Acq On : 04 Nov 2024 18:46
Operator : YP\AJ
Sample : PB164637BS
Misc :
ALS Vial : 76 Sample Multiplier: 1

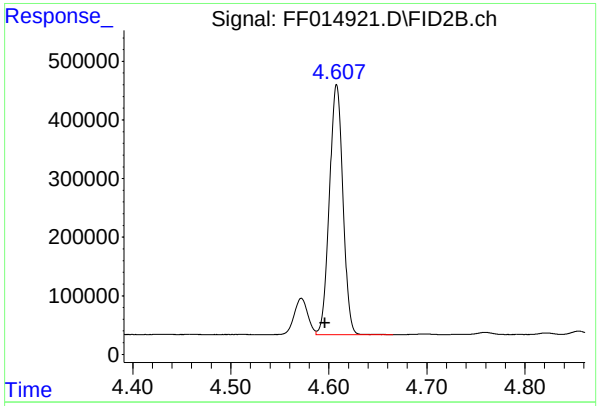
Integration File: autoint1.e
Quant Time: Nov 05 01:27:47 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 102124.M
Quant Title : GC Extractables
QLast Update : Tue Oct 22 04:14:53 2024
Response via : Initial Calibration
Integrator: ChemStation

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

Instrument :
FID_F
ClientSampleId :
PB164637BS

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 11/06/2024
Supervised By :Ankita Jodhani 11/06/2024





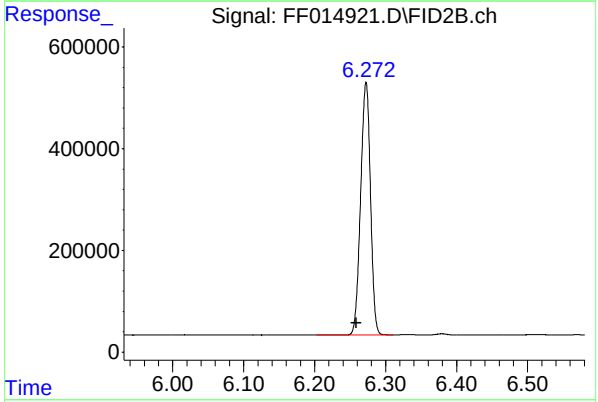
#1 1,2,3-Trimethylbenzene (C10.1)

R.T.: 4.608 min
Delta R.T.: 0.012 min
Response: 4090612
Conc: 26.89 ug/ml

Instrument :
FID_F
ClientSampleId :
PB164637BS

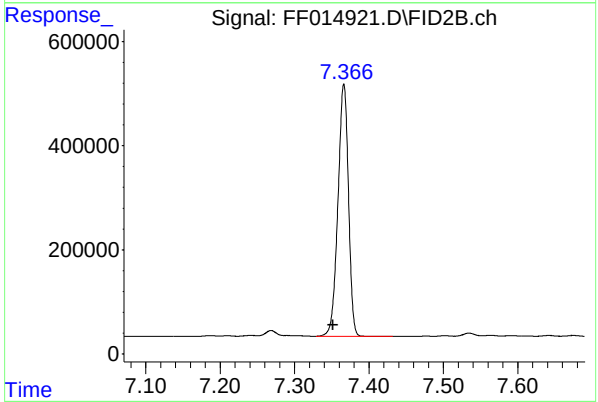
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/06/2024
Supervised By :Ankita Jodhani 11/06/2024



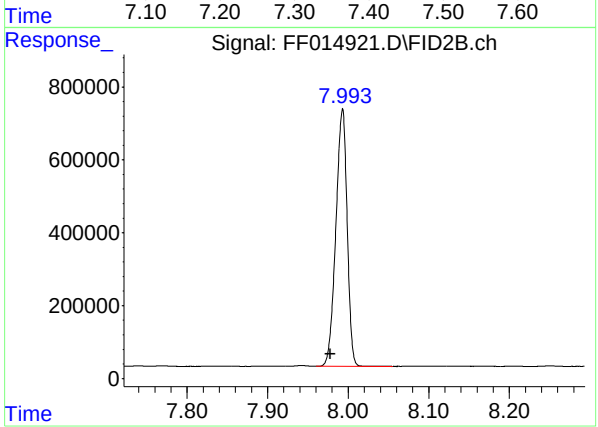
#2 Naphthalene (C11.7)

R.T.: 6.272 min
Delta R.T.: 0.013 min
Response: 4792205
Conc: 29.94 ug/ml



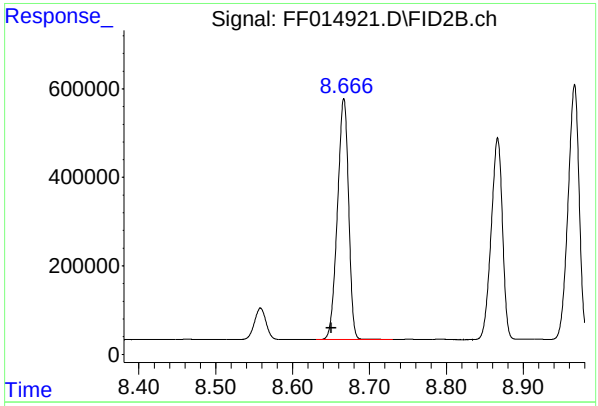
#3 2-Methylnaphthalene (C12.89)

R.T.: 7.366 min
Delta R.T.: 0.014 min
Response: 4786591
Conc: 29.59 ug/ml



#4 2-Bromonaphthalene (SURR)

R.T.: 7.993 min
Delta R.T.: 0.015 min
Response: 6865390
Conc: 49.23 ug/ml



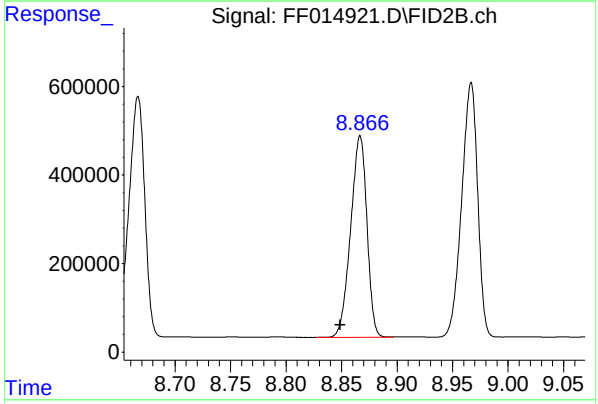
#5 Acenaphthylene (C15.06)

R.T.: 8.667 min
Delta R.T.: 0.016 min
Response: 5484665
Conc: 34.62 ug/ml

Instrument :
FID_F
ClientSampleId :
PB164637BS

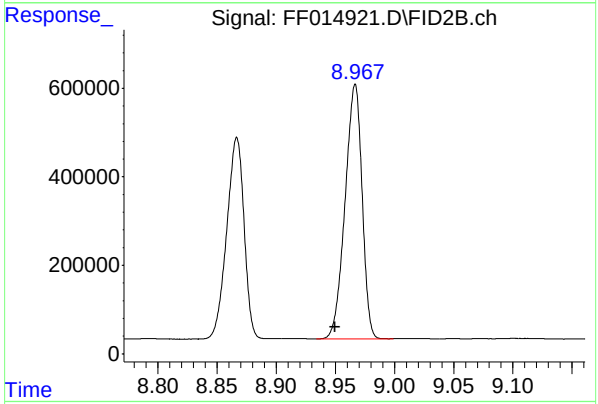
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/06/2024
Supervised By :Ankita Jodhani 11/06/2024



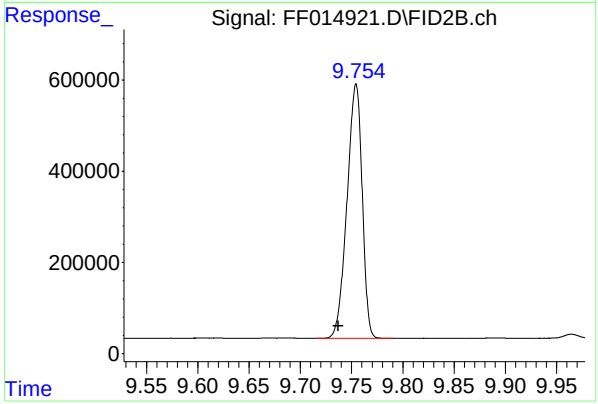
#6 2-Flurobiphenyl (SURR)

R.T.: 8.867 min
Delta R.T.: 0.018 min
Response: 4649329
Conc: 49.30 ug/ml



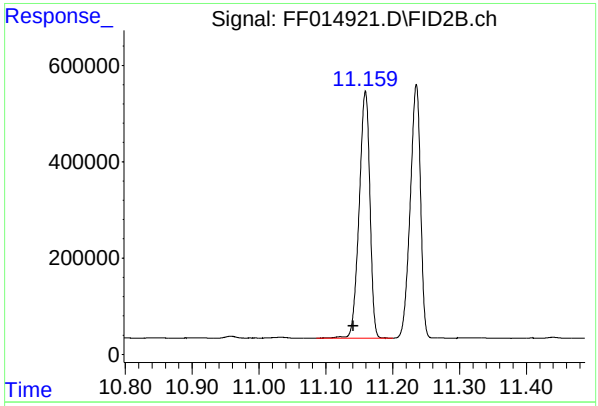
#7 Acenaphthene (C15.5)

R.T.: 8.966 min
Delta R.T.: 0.017 min
Response: 5778384
Conc: 36.42 ug/ml



#8 Flouorene (C16.55)

R.T.: 9.754 min
Delta R.T.: 0.017 min
Response: 5747906
Conc: 36.43 ug/ml



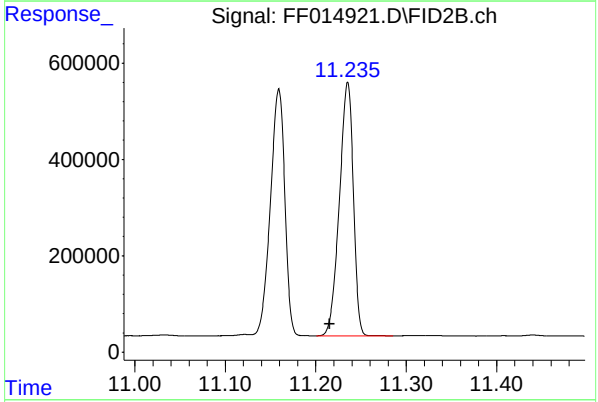
#9 Phenanthrene (C19.36)

R.T.: 11.159 min
Delta R.T.: 0.018 min
Response: 5717048
Conc: 36.32 ug/ml

Instrument :
FID_F
ClientSampleId :
PB164637BS

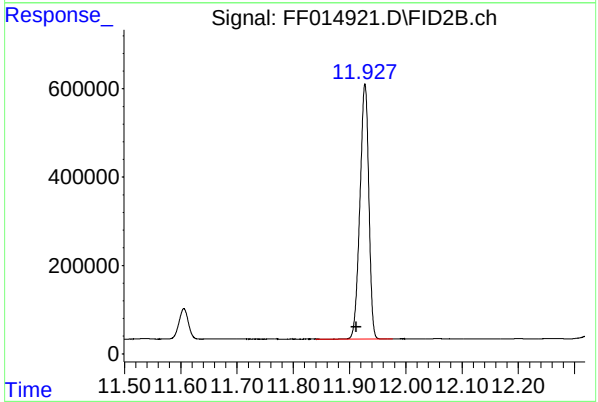
Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/06/2024
Supervised By :Ankita Jodhani 11/06/2024



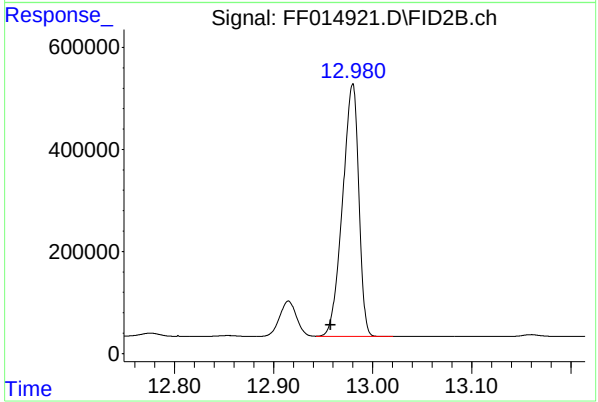
#10 Anthracene (C19.43)

R.T.: 11.235 min
Delta R.T.: 0.020 min
Response: 5643733
Conc: 37.52 ug/ml



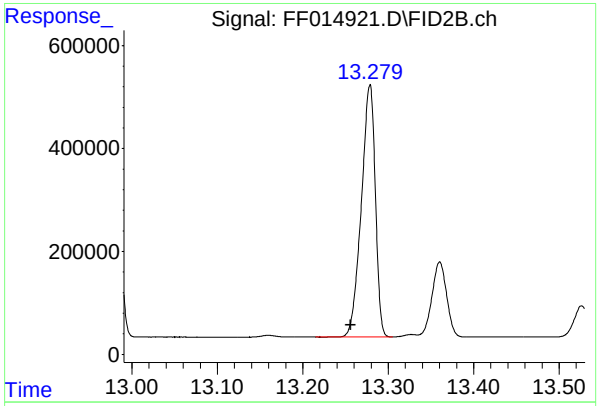
#11 ortho-Terphenyl (SURR)

R.T.: 11.927 min
Delta R.T.: 0.015 min
Response: 6346201
Conc: 39.67 ug/ml



#12 Fluoranthene (C21.85)

R.T.: 12.979 min
Delta R.T.: 0.022 min
Response: 5640490
Conc: 35.79 ug/ml



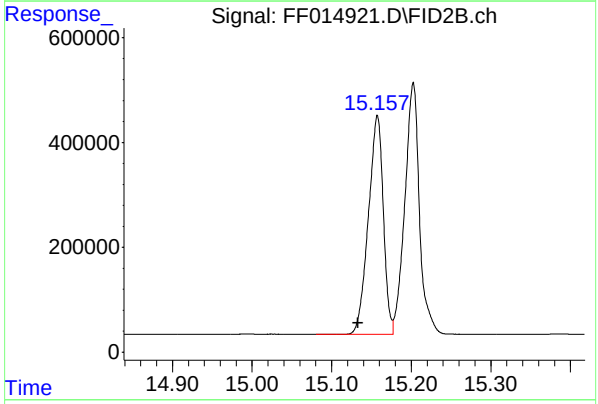
#13 Pyrene (C20.8)

R.T.: 13.278 min
Delta R.T.: 0.022 mi
Response: 5576837
Conc: 35.77 ug/m

Instrument :
FID_F
ClientSampleId :
PB164637BS

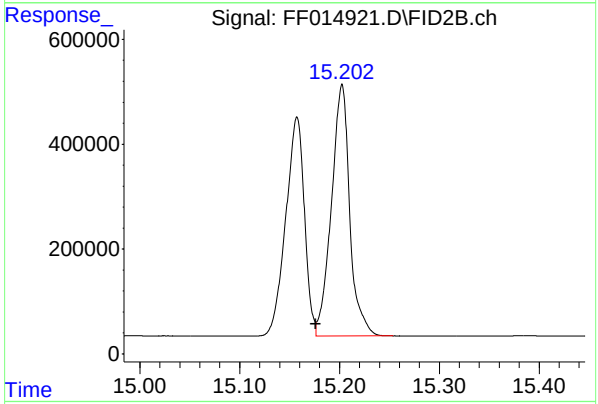
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/06/2024
Supervised By :Ankita Jodhani 11/06/2024



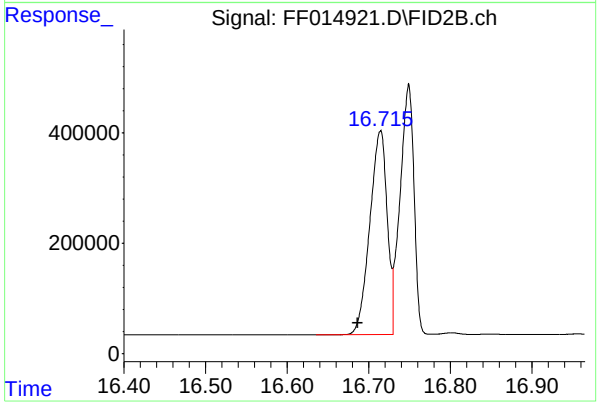
#14 Benzo[a]anthracene (C26.37)

R.T.: 15.157 min
Delta R.T.: 0.024 min
Response: 5442345
Conc: 35.81 ug/ml



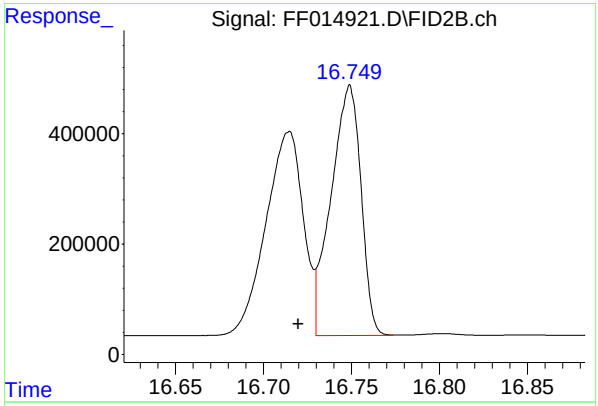
#15 Chrysene (C27.41)

R.T.: 15.202 min
Delta R.T.: 0.026 min
Response: 6124515
Conc: 39.63 ug/ml m



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

R.T.: 16.714 min
Delta R.T.: 0.027 min
Response: 5459731
Conc: 35.71 ug/ml



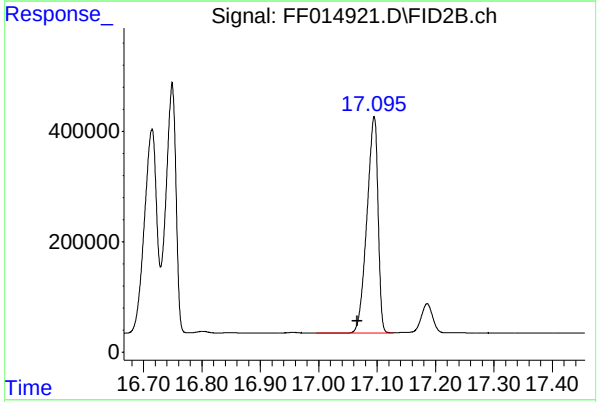
#17 Bnezo[k]fluoranthene (C30.14)

R.T.: 16.749 min
Delta R.T.: 0.029 min
Response: 5350229
Conc: 37.04 ug/ml

Instrument :
FID_F
ClientSampleId :
PB164637BS

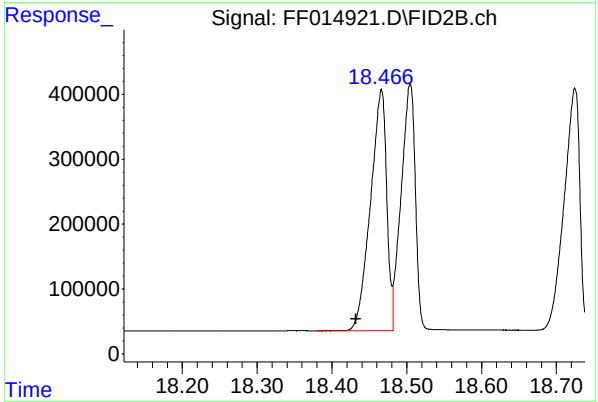
Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/06/2024
Supervised By :Ankita Jodhani 11/06/2024



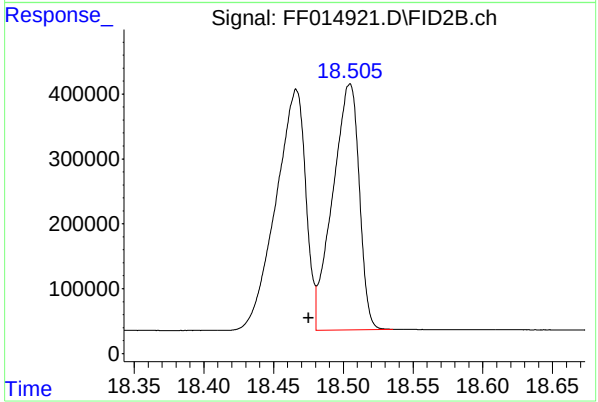
#18 Benzo[a]pyrene (C31.34)

R.T.: 17.094 min
Delta R.T.: 0.028 min
Response: 5187671
Conc: 34.75 ug/ml



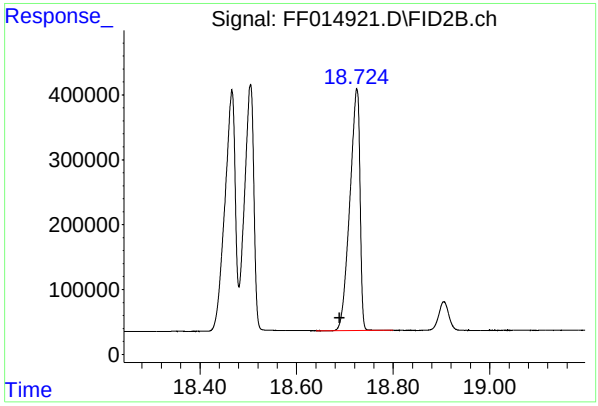
#19 Indeno[1,2,3-cd]pyrene (C35.01)

R.T.: 18.466 min
Delta R.T.: 0.033 min
Response: 5586016
Conc: 40.73 ug/ml



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

R.T.: 18.505 min
Delta R.T.: 0.030 min
Response: 5015005
Conc: 34.52 ug/ml m



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

R.T.: 18.724 min
Delta R.T.: 0.035 mi
Response: 5409689
Conc: 37.87 ug/m

Instrument :
FID_F
ClientSampleId :
PB164637BS

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/06/2024
Supervised By :Ankita Jodhani 11/06/2024

Instrument :
FID_F
ClientSampleId :
PB164637BS

rteres

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/06/2024
Supervised By :Ankita Jodhani 11/06/2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF11042
Data File : FF014921.D
Signal(s) : FID2B.ch
Acq On : 04 Nov 2024 18:46
Sample : PB164637BS
Misc :
ALS Vial : 76 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 102124.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	4.608	4.587	4.665	VB	426308	4090612	59.58%	3.565%
2	6.272	6.202	6.310	BV	496953	4792205	69.80%	4.177%
3	7.366	7.329	7.432	VB	484770	4786591	69.72%	4.172%
4	7.993	7.960	8.055	PV	701436	6865390	100.00%	5.984%
5	8.667	8.630	8.730	PV	546558	5484665	79.89%	4.780%
6	8.867	8.827	8.896	BV	456768	4649329	67.72%	4.052%
7	8.966	8.934	8.999	VV	579282	5778384	84.17%	5.036%
8	9.754	9.715	9.790	BB	557398	5747906	83.72%	5.010%
9	11.159	11.085	11.200	BV	512483	5717048	83.27%	4.983%
10	11.235	11.200	11.285	VV	528520	5643733	82.21%	4.919%
11	11.927	11.840	11.977	BV	577564	6346201	92.44%	5.531%
12	12.979	12.943	13.020	VB	492974	5640490	82.16%	4.916%
13	13.278	13.215	13.305	BV	490814	5576837	81.23%	4.861%
14	15.157	15.080	15.177	BV	418722	5442345	79.27%	4.744%
15	15.202	15.177	15.284	VB	480024	6135081	89.36%	5.347%
16	16.714	16.635	16.730	BV	368950	5459731	79.53%	4.759%
17	16.749	16.730	16.778	VV	454177	5379958	78.36%	4.689%
18	17.094	16.995	17.127	BV	391558	5187671	75.56%	4.522%
19	18.466	18.379	18.482	BV	370808	5586016	81.36%	4.869%
20	18.504	18.482	18.595	VB	379144	5011747	73.00%	4.368%
21	18.724	18.640	18.800	BBA	372668	5409689	78.80%	4.715%
			Sum of corrected areas:			114731627		

Aromatic EPH 102124.M Tue Nov 05 02:03:14 2024

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

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	
Project:	RFP 872	Date Received:	
Client Sample ID:	PB164618BSD	SDG No.:	P4620
Lab Sample ID:	PB164618BSD	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
11/03/24 08:45	11/05/24 9:04	PB164618

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	5.35		1	0.38	1.00	mg/kg	FC067626.D
Aliphatic C12-C16	Aliphatic C12-C16	5.19		1	0.24	0.67	mg/kg	FC067626.D
Aliphatic C16-C21	Aliphatic C16-C21	8.93		1	0.30	1.00	mg/kg	FC067626.D
Aliphatic C21-C28	Aliphatic C21-C28	12.2		1	0.80	1.33	mg/kg	FC067626.D
Aliphatic C28-C40	Aliphatic C28-C40	19.3		1	1.80	2.00	mg/kg	FC067626.D
Aromatic C10-C12	Aromatic C10-C12	3.39		1	0.30	0.67	mg/kg	FD048663.D
Aromatic C12-C16	Aromatic C12-C16	6.68		1	0.34	1.00	mg/kg	FD048663.D
Aromatic C16-C21	Aromatic C16-C21	13.3		1	0.96	1.67	mg/kg	FD048663.D
Aromatic C21-C36	Aromatic C21-C36	21.4		1	2.00	2.67	mg/kg	FD048663.D
Total AliphaticEPH	Total AliphaticEPH	51.0			3.52	6.00	mg/kg	
Total AromaticEPH	Total AromaticEPH	44.8			3.60	6.01	mg/kg	
Total EPH	Total EPH	95.7			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:	Weston Solutions, Inc.		Date Collected:		
Project:	RFP 872		Date Received:		
Client Sample ID:	PB164618BSD		SDG No.:	P4620	
Lab Sample ID:	PB164618BSD		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
FC067626.D	1	11/03/24	11/05/24	PB164618

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C12	Aliphatic C9-C12	5.35		0.38	1.00	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16	5.19		0.24	0.67	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21	8.93		0.30	1.00	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28	12.2		0.80	1.33	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	19.3		1.80	2.00	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	40.2		40 - 140	80%	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:	PB164618BSD	Acq On:	05 Nov 2024 09:04
Client Sample ID:	PB164618BSD	Operator:	YP/AJ
Data file:	FC067626.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	3.171	6.449	10883015	80.335	300	ug/ml
Aliphatic C12-C16	6.450	9.838	10254032	77.87	200	ug/ml
Aliphatic C16-C21	9.839	13.196	17054265	134.037	300	ug/ml
Aliphatic C21-C28	13.197	16.847	21961098	182.871	400	ug/ml
Aliphatic C28-C40	16.848	21.685	29286131	289.694	600	ug/ml
Aliphatic EPH	3.171	21.685	89438541	764.808		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	12.929	12.929	4345342	40.24		ug/ml
Aliphatic C9-C28	3.171	16.847	60152410	475.113	1200	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC110424AL\
Data File : FC067626.D
Signal(s) : FID1A.ch
Acq On : 05 Nov 2024 09:04
Operator : YP/AJ
Sample : PB164618BSD
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
PB164618BSD

Integration File: autoint1.e
Quant Time: Nov 05 15:46:59 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...	12.929	4345342	40.239 ug/ml
Spiked Amount	50.000		Recovery =	80.48%
	Target Compounds			
1) T	n-Nonane (C9)	3.270	2768371	20.549 ug/ml
2) T	n-Decane (C10)	4.335	3615357	26.536 ug/ml
4) T	n-Dodecane (C12)	6.350	4499287	33.219 ug/ml
6) T	n-Tetradecane (C14)	8.142	4970360	37.866 ug/ml
7) T	n-Hexadecane (C16)	9.740	5283672	39.997 ug/ml
8) T	n-Octadecane (C18)	11.180	5596198	42.359 ug/ml
10) T	n-Eicosane (C20)	12.487	5823460	46.153 ug/ml
11) T	n-Heneicosane (C21)	13.098	5634607	45.656 ug/ml
13) T	n-Docosane (C22)	13.682	5612562	45.836 ug/ml
14) T	n-Tetracosane (C24)	14.783	5541702	45.720 ug/ml
15) T	n-Hexacosane (C26)	15.803	5434081	45.643 ug/ml
16) T	n-Octacosane (C28)	16.751	5372753	45.668 ug/ml
17) T	n-Tricontane (C30)	17.637	5388400	44.580 ug/ml
18) T	n-Dotriacontane (C32)	18.468	5290623	44.714 ug/ml
19) T	n-Tetratriacontane (C34)	19.250	5122893	48.916 ug/ml
20) T	n-Hexatriacontane (C36)	19.988	4774494	52.451 ug/ml
21) T	n-Octatriacontane (C38)	20.709	4495677	51.912 ug/ml
22) T	n-Tetracontane (C40)	21.591	4214044	49.571 ug/ml

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

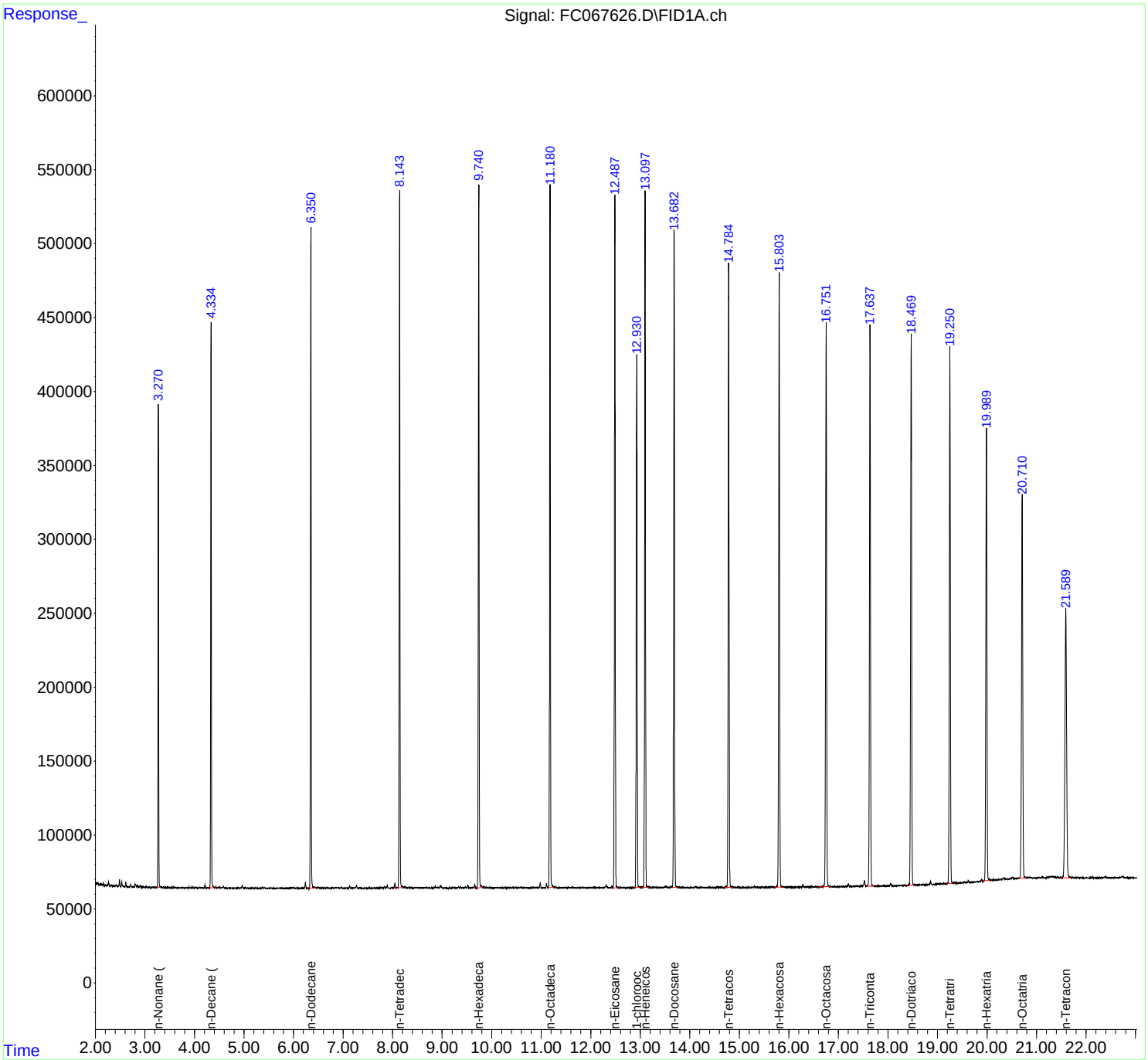
Quantitation Report (QT Reviewed)

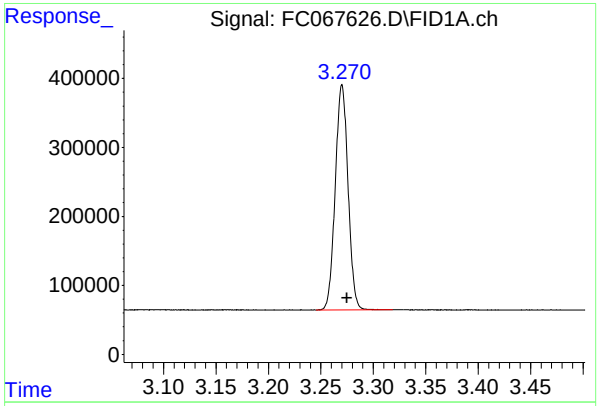
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC110424AL\
Data File : FC067626.D
Signal(s) : FID1A.ch
Acq On : 05 Nov 2024 09:04
Operator : YP/AJ
Sample : PB164618BSD
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
PB164618BSD

Integration File: autoint1.e
Quant Time: Nov 05 15:46:59 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

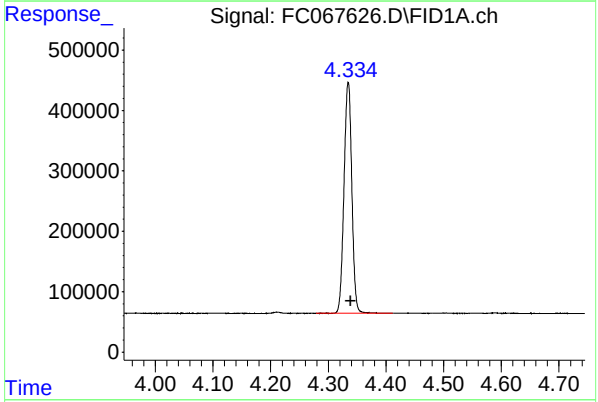




#1 n-Nonane (C9)

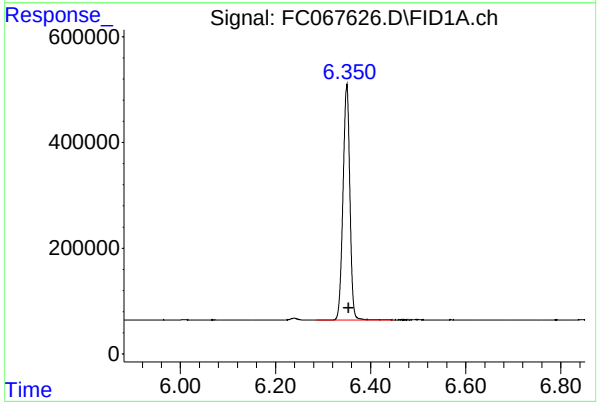
R.T.: 3.270 min
Delta R.T.: -0.005 min
Response: 2768371
Conc: 20.55 ug/ml

Instrument :
FID_C
ClientSampleId :
PB164618BSD



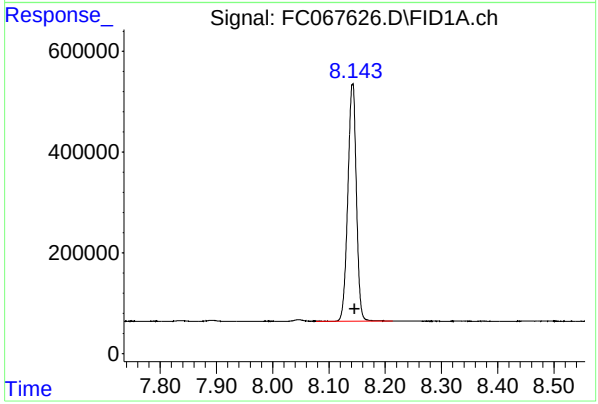
#2 n-Decane (C10)

R.T.: 4.335 min
Delta R.T.: -0.004 min
Response: 3615357
Conc: 26.54 ug/ml



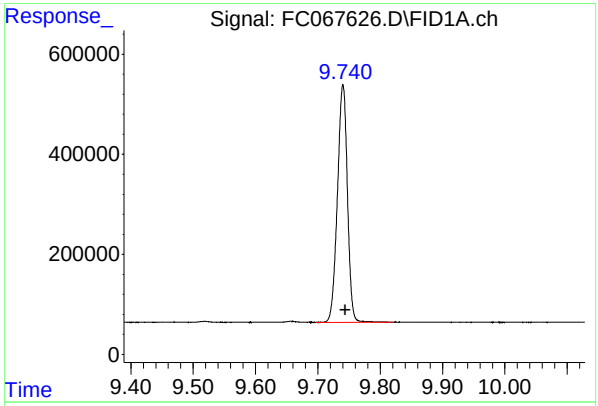
#4 n-Dodecane (C12)

R.T.: 6.350 min
Delta R.T.: -0.004 min
Response: 4499287
Conc: 33.22 ug/ml



#6 n-Tetradecane (C14)

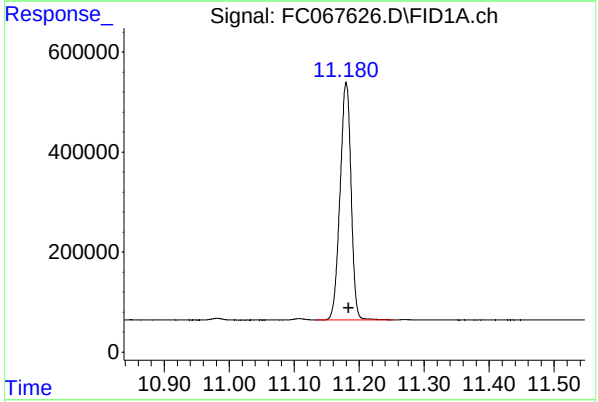
R.T.: 8.142 min
Delta R.T.: -0.004 min
Response: 4970360
Conc: 37.87 ug/ml



#7 n-Hexadecane (C16)

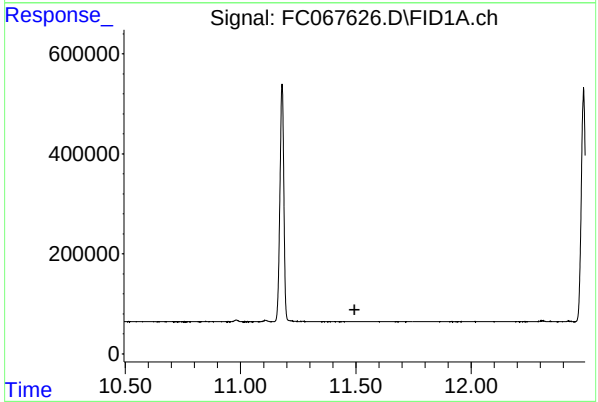
R.T.: 9.740 min
Delta R.T.: -0.004 min
Response: 5283672
Conc: 40.00 ug/ml

Instrument :
FID_C
ClientSampleId :
PB164618BSD



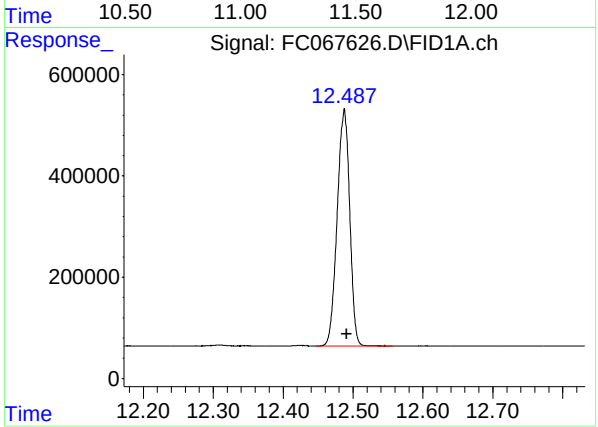
#8 n-Octadecane (C18)

R.T.: 11.180 min
Delta R.T.: -0.004 min
Response: 5596198
Conc: 42.36 ug/ml



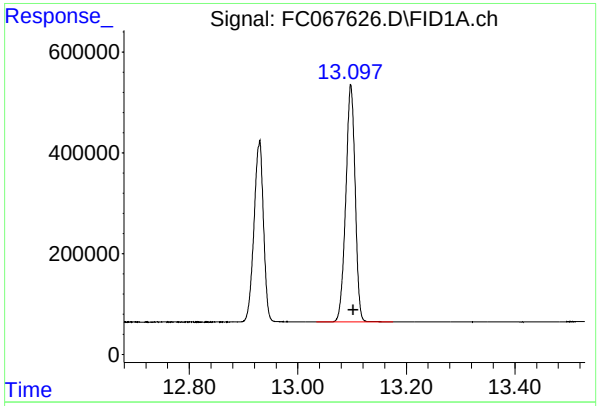
#9 ortho-Terphenyl (SURR)

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



#10 n-Eicosane (C20)

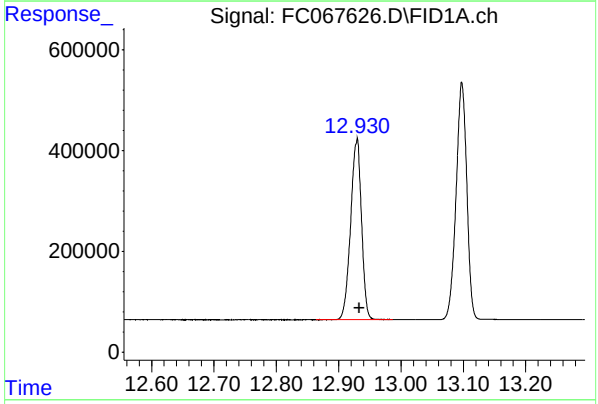
R.T.: 12.487 min
Delta R.T.: -0.004 min
Response: 5823460
Conc: 46.15 ug/ml



#11 n-Heneicosane (C21)

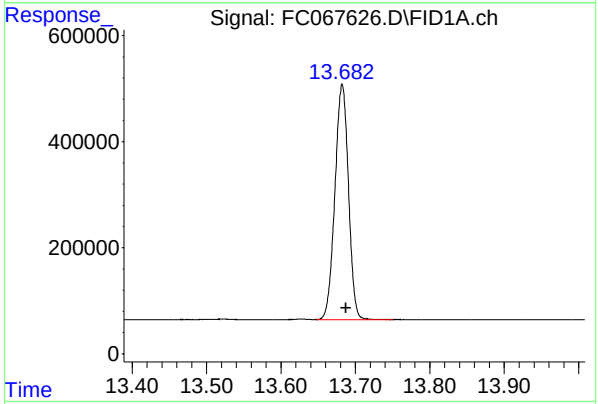
R.T.: 13.098 min
Delta R.T.: -0.004 min
Response: 5634607
Conc: 45.66 ug/ml

Instrument :
FID_C
ClientSampleId :
PB164618BSD



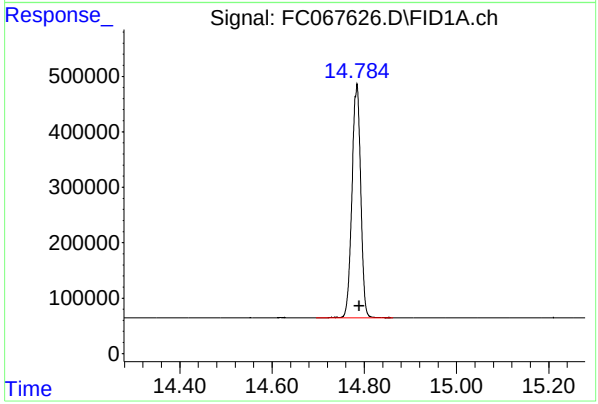
#12 1-chlorooctadecane (SURR)

R.T.: 12.929 min
Delta R.T.: -0.004 min
Response: 4345342
Conc: 40.24 ug/ml



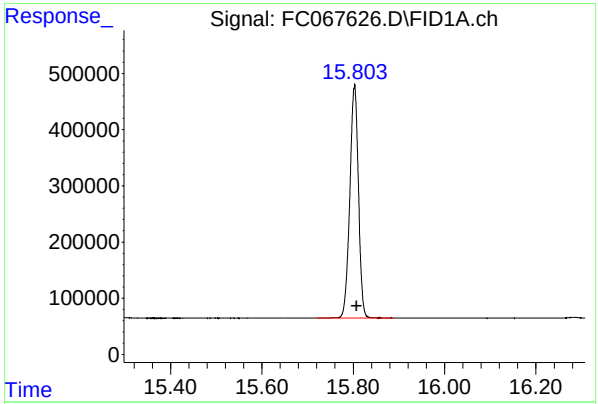
#13 n-Docosane (C22)

R.T.: 13.682 min
Delta R.T.: -0.005 min
Response: 5612562
Conc: 45.84 ug/ml



#14 n-Tetracosane (C24)

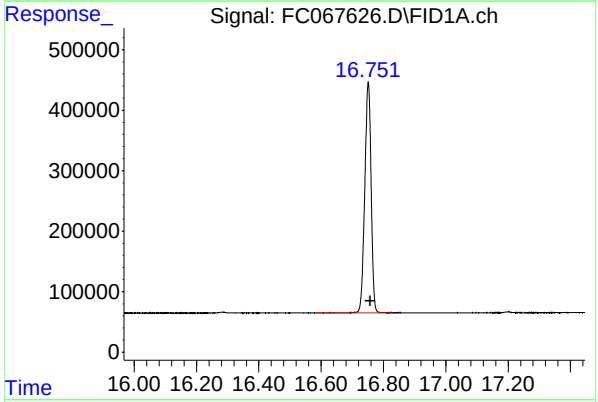
R.T.: 14.783 min
Delta R.T.: -0.006 min
Response: 5541702
Conc: 45.72 ug/ml



#15 n-Hexacosane (C26)

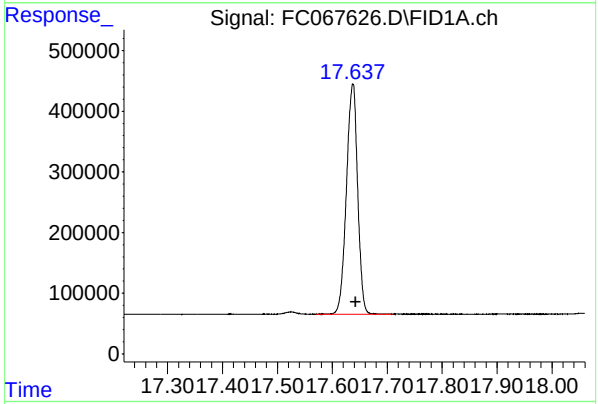
R.T.: 15.803 min
Delta R.T.: -0.005 min
Response: 5434081
Conc: 45.64 ug/ml

Instrument :
FID_C
ClientSampleId :
PB164618BSD



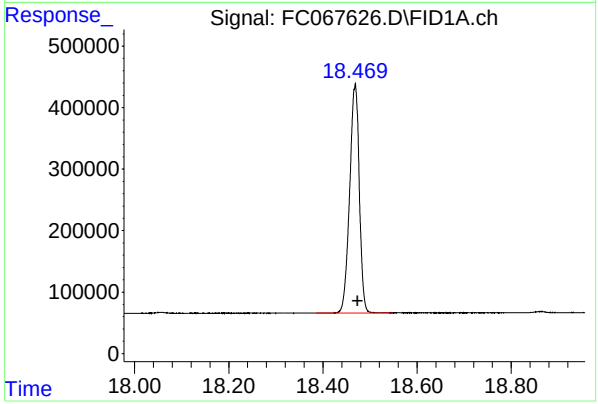
#16 n-Octacosane (C28)

R.T.: 16.751 min
Delta R.T.: -0.006 min
Response: 5372753
Conc: 45.67 ug/ml



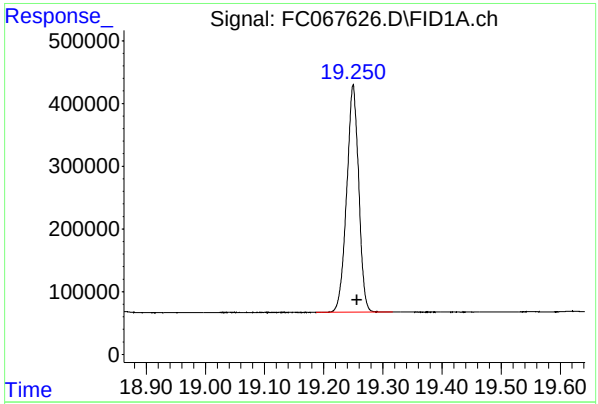
#17 n-Tricontane (C30)

R.T.: 17.637 min
Delta R.T.: -0.006 min
Response: 5388400
Conc: 44.58 ug/ml



#18 n-Dotriacontane (C32)

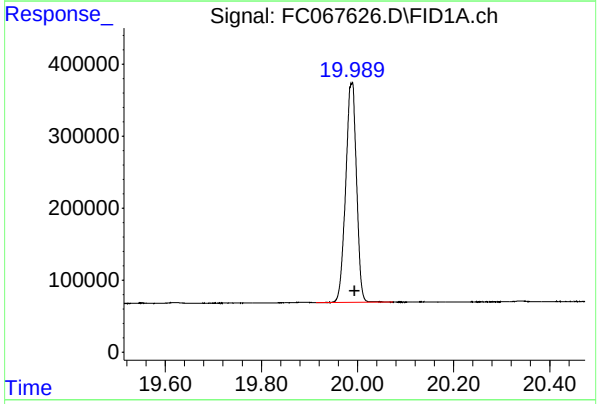
R.T.: 18.468 min
Delta R.T.: -0.006 min
Response: 5290623
Conc: 44.71 ug/ml



#19 n-Tetratriacontane (C34)

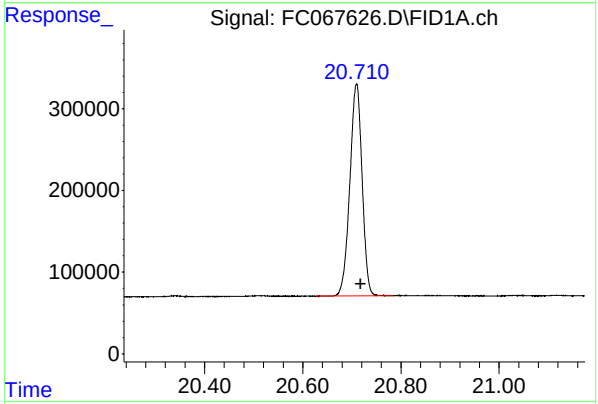
R.T.: 19.250 min
Delta R.T.: -0.006 min
Response: 5122893
Conc: 48.92 ug/ml

Instrument :
FID_C
ClientSampleId :
PB164618BSD



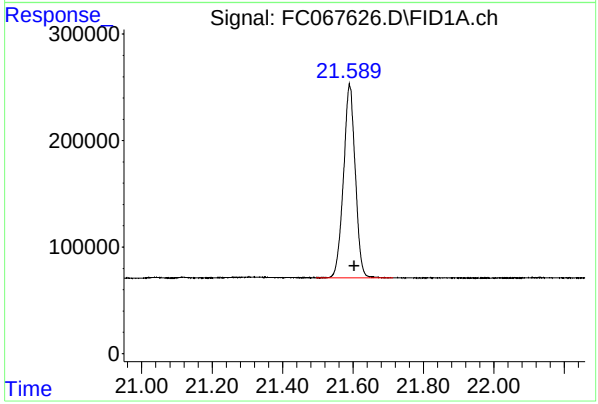
#20 n-Hexatriacontane (C36)

R.T.: 19.988 min
Delta R.T.: -0.007 min
Response: 4774494
Conc: 52.45 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 20.709 min
Delta R.T.: -0.008 min
Response: 4495677
Conc: 51.91 ug/ml



#22 n-Tetracontane (C40)

R.T.: 21.591 min
Delta R.T.: -0.013 min
Response: 4214044
Conc: 49.57 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC110424AL\
Data File : FC067626.D
Signal(s) : FID1A.ch
Acq On : 05 Nov 2024 09:04
Sample : PB164618BSD
Misc :
ALS Vial : 23 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	3.270	3.245	3.319	BB	326198	2768371	47.54%	2.952%
2	4.335	4.279	4.412	BB	384222	3615357	62.08%	3.855%
3	6.350	6.285	6.447	BB	448164	4499287	77.26%	4.798%
4	8.142	8.077	8.214	BB	471406	4970360	85.35%	5.300%
5	9.740	9.697	9.820	BB	476185	5283672	90.73%	5.634%
6	11.180	11.134	11.252	PV	474436	5596198	96.10%	5.967%
7	12.487	12.447	12.557	PB	465246	5823460	100.00%	6.209%
8	12.929	12.864	12.987	BB	353174	4345342	74.62%	4.633%
9	13.098	13.034	13.175	BB	471967	5634607	96.76%	6.008%
10	13.682	13.647	13.750	VB	444652	5612562	96.38%	5.985%
11	14.783	14.695	14.862	BB	420017	5541702	95.16%	5.909%
12	15.803	15.719	15.887	BB	411963	5434081	93.31%	5.794%
13	16.751	16.584	16.830	BB	381530	5372753	92.26%	5.729%
14	17.637	17.570	17.710	BB	380196	5388400	92.53%	5.746%
15	18.468	18.385	18.549	BB	372217	5290623	90.85%	5.641%
16	19.250	19.187	19.317	BB	363716	5122893	87.97%	5.462%
17	19.988	19.914	20.074	BB	304044	4774494	81.99%	5.091%
18	20.709	20.627	20.784	BB	259334	4495677	77.20%	4.794%
19	21.591	21.495	21.714	BB	181340	4214044	72.36%	4.493%
			Sum of corrected areas:			93783883		

Aliphatic EPH 102324.M Tue Nov 05 16:13:14 2024

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

Report of Analysis

Client:	Weston Solutions, Inc.		Date Collected:		
Project:	RFP 872		Date Received:		
Client Sample ID:	PB164618BSD		SDG No.:	P4620	
Lab Sample ID:	PB164618BSD		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
FD048663.D	1	11/03/24	11/05/24	PB164618

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	3.39		0.30	0.67	mg/kg
Aromatic C12-C16	Aromatic C12-C16	6.68		0.34	1.00	mg/kg
Aromatic C16-C21	Aromatic C16-C21	13.3		0.96	1.67	mg/kg
Aromatic C21-C36	Aromatic C21-C36	21.4		2.00	2.67	mg/kg
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	45.9		40 - 140	92%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	47.0		40 - 140	94%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	41.8		40 - 140	84%	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:	PB164618BSD	Acq On:	05 Nov 2024 09:04
Client Sample ID:	PB164618BSD	Operator:	YP/AJ
Data file:	FD048663.D	Misc:	
Instrument:	FID_D	ALS Vial:	73
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic EPH	4.093	18.080	108503016	672.011		ug/ml
ortho-Terphenyl (SURR)	11.254	11.254	7117157	41.78		ug/ml
2-Bromonaphthalene (SURR)	7.369	7.369	6966463	45.9		ug/ml
2-Flurobiphenyl (SURR)	8.219	8.219	4619930	47.05		ug/ml
Aromatic C10-C12	4.093	5.811	8960395	50.853	200	ug/ml
Aromatic C12-C16	5.812	8.416	17770470	100.243	300	ug/ml
Aromatic C16-C21	8.417	12.676	32732824	199.794	500	ug/ml
Aromatic C21-C36	12.677	18.080	49039327	321.121	800	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD110424AR\
Data File : FD048663.D
Signal(s) : FID2B.ch
Acq On : 05 Nov 2024 09:04
Operator : YP/AJ
Sample : PB164618BSD
Misc :
ALS Vial : 73 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
PB164618BSD

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 11/06/2024
Supervised By :Ankita Jodhani 11/06/2024

Integration File: autoint1.e
Quant Time: Nov 06 01:26:23 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...	7.369	6966463	45.899 ug/ml
Spiked Amount	50.000		Recovery =	91.80%
6) S	2-Flurobiphenyl (SURR)	8.219	4619930	47.050 ug/ml
Spiked Amount	50.000 Range	0 - 131	Recovery =	94.10%
11) S	ortho-Terphenyl (SURR)	11.254	7117157	41.782 ug/ml
Spiked Amount	50.000		Recovery =	83.56%
	Target Compounds			
1) T	1,2,3-Trimethylbenzen...	4.191	4582573	26.341 ug/mlm
2) T	Naphthalene (C11.7)	5.709	5269478	29.532 ug/ml
3) T	2-Methylnaphthalene (...	6.755	5264169	29.431 ug/ml
5) T	Acenaphthylene (C15.06)	8.021	6074486	34.594 ug/ml
7) T	Acenaphthene (C15.5)	8.317	6431815	36.263 ug/ml
8) T	Flouorene (C16.55)	9.095	6355350	37.597 ug/ml
9) T	Phenanthrene (C19.36)	10.482	6391018	38.662 ug/ml
10) T	Anthracene (C19.43)	10.557	6486939	40.566 ug/ml
12) T	Fluoranthene (C21.85)	12.286	6999864	42.532 ug/ml
13) T	Pyrene (C20.8)	12.578	6499653	40.351 ug/ml
14) T	Benzo[a]anthracene (C...	14.449	6164224	42.158 ug/ml
15) T	Chrysene (C27.41)	14.491	6221092	37.820 ug/ml
16) T	benzo[b]fluoranthene ...	15.996	6225451	40.949 ug/ml
17) T	Bnezo[k]fluoranthene ...	16.030	6223184	41.404 ug/ml
18) T	Benzo[a]pyrene (C31.34)	16.371	6037781	40.119 ug/ml
19) T	Indeno[1,2,3-cd]pyren...	17.739	6126712	46.956 ug/ml
20) T	Dibenz[a,h]anthracene...	17.776	5987680	36.794 ug/ml
21) T	Benzo[g,h,i]perylene ...	17.990	6053203	39.540 ug/ml

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

Quantitation Report (QT Reviewed)

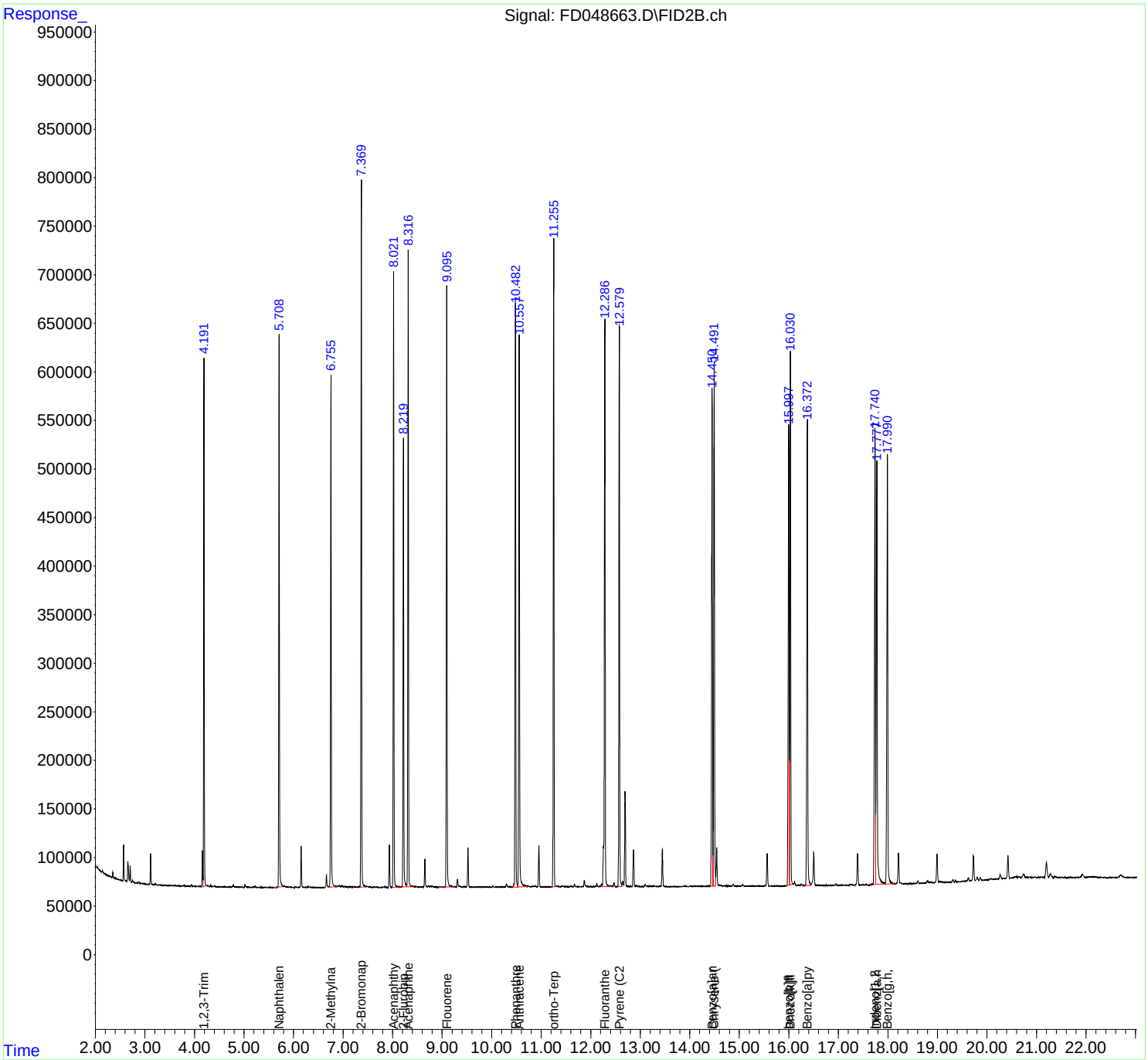
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD110424AR\
Data File : FD048663.D
Signal(s) : FID2B.ch
Acq On : 05 Nov 2024 09:04
Operator : YP/AJ
Sample : PB164618BSD
Misc :
ALS Vial : 73 Sample Multiplier: 1

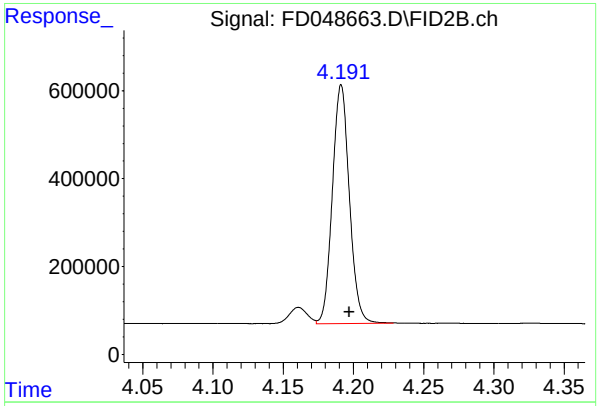
Integration File: autoint1.e
Quant Time: Nov 06 01:26:23 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 18:14:59 2024
Response via : Initial Calibration
Integrator: ChemStation

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

Instrument :
FID_D
ClientSampleId :
PB164618BSD

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 11/06/2024
Supervised By :Ankita Jodhani 11/06/2024





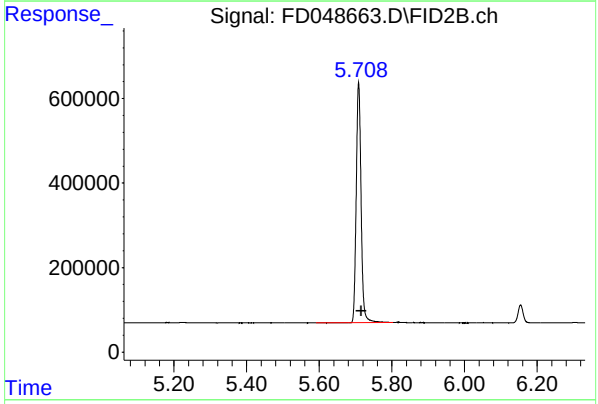
#1 1,2,3-Trimethylbenzene (C10.1)

R.T.: 4.191 min
Delta R.T.: -0.006 min
Response: 4582573
Conc: 26.34 ug/ml

Instrument :
FID_D
ClientSampleId :
PB164618BSD

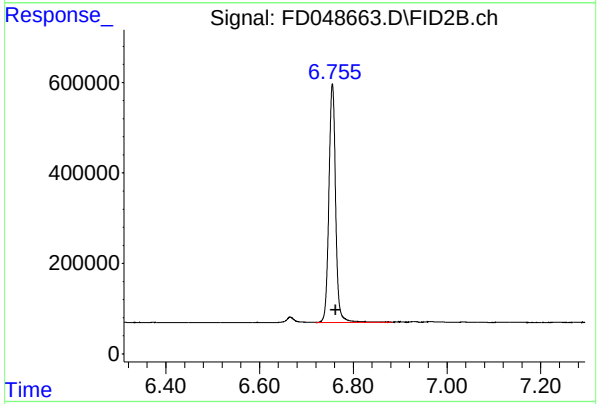
Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/06/2024
Supervised By :Ankita Jodhani 11/06/2024



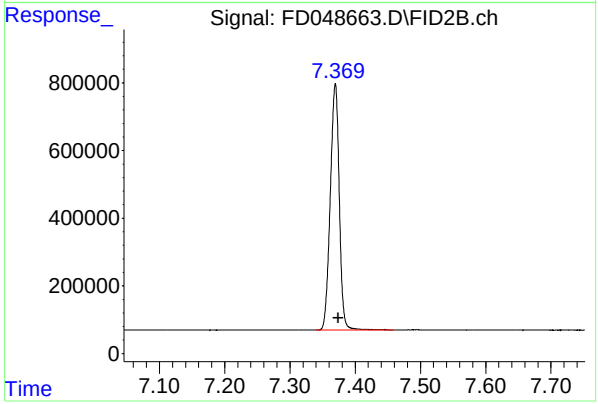
#2 Naphthalene (C11.7)

R.T.: 5.709 min
Delta R.T.: -0.007 min
Response: 5269478
Conc: 29.53 ug/ml



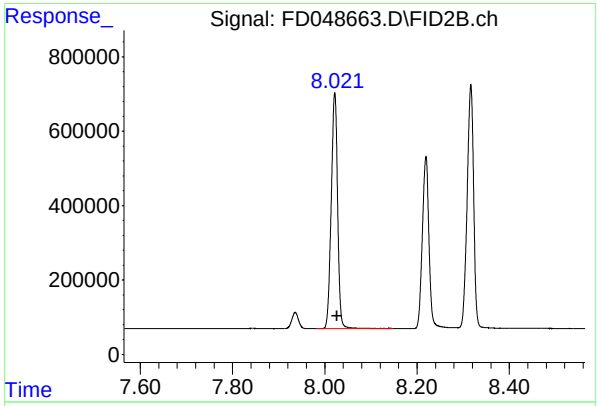
#3 2-Methylnaphthalene (C12.89)

R.T.: 6.755 min
Delta R.T.: -0.007 min
Response: 5264169
Conc: 29.43 ug/ml



#4 2-Bromonaphthalene (SURR)

R.T.: 7.369 min
Delta R.T.: -0.005 min
Response: 6966463
Conc: 45.90 ug/ml



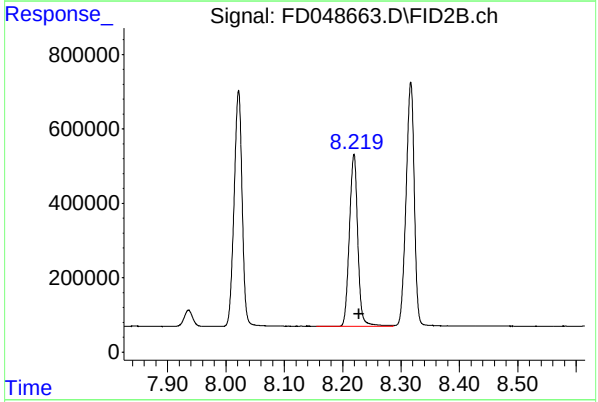
#5 Acenaphthylene (C15.06)

R.T.: 8.021 min
Delta R.T.: -0.005 min
Response: 6074486
Conc: 34.59 ug/ml

Instrument :
FID_D
ClientSampleId :
PB164618BSD

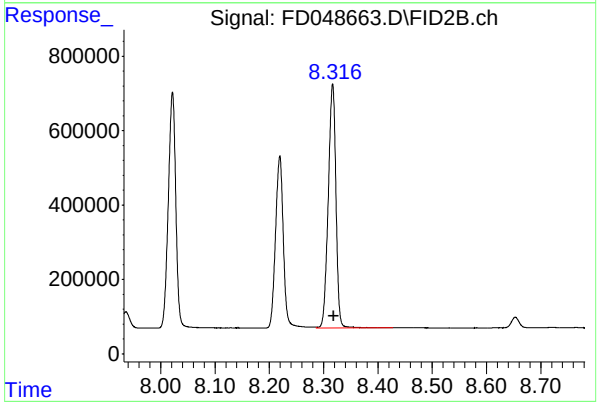
Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/06/2024
Supervised By :Ankita Jodhani 11/06/2024



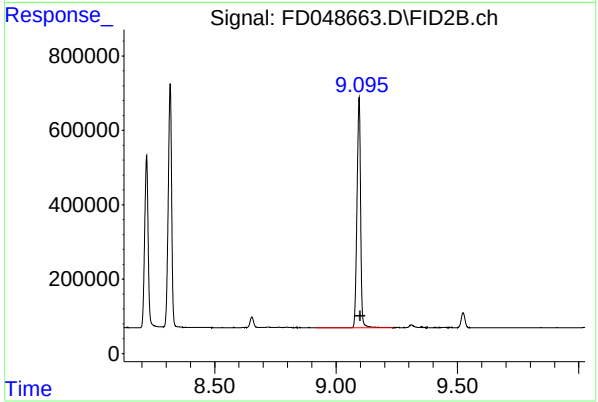
#6 2-Flurobiphenyl (SURR)

R.T.: 8.219 min
Delta R.T.: -0.009 min
Response: 4619930
Conc: 47.05 ug/ml



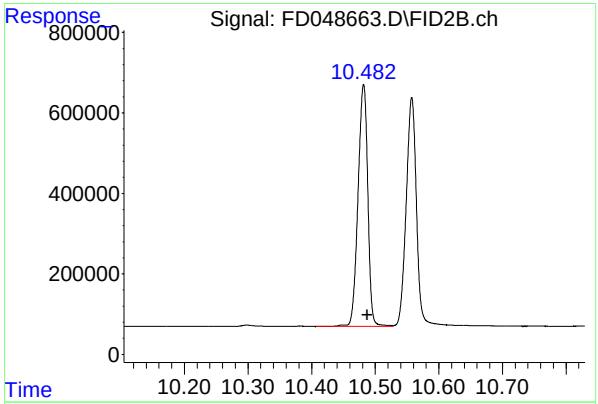
#7 Acenaphthene (C15.5)

R.T.: 8.317 min
Delta R.T.: -0.002 min
Response: 6431815
Conc: 36.26 ug/ml



#8 Flouorene (C16.55)

R.T.: 9.095 min
Delta R.T.: -0.006 min
Response: 6355350
Conc: 37.60 ug/ml



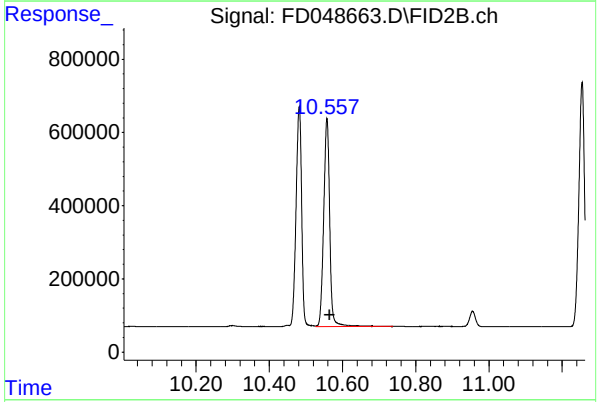
#9 Phenanthrene (C19.36)

R.T.: 10.482 min
Delta R.T.: -0.006 min
Response: 6391018
Conc: 38.66 ug/ml

Instrument :
FID_D
ClientSampleId :
PB164618BSD

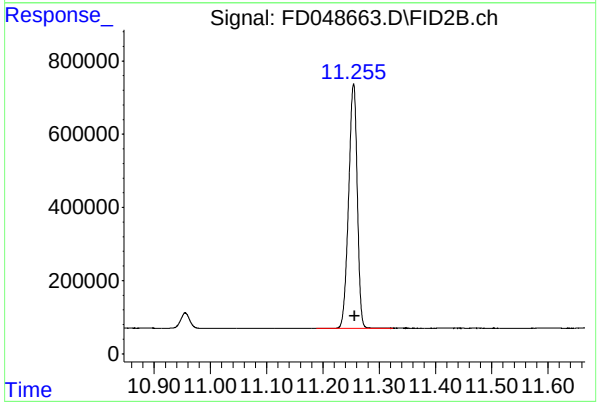
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/06/2024
Supervised By :Ankita Jodhani 11/06/2024



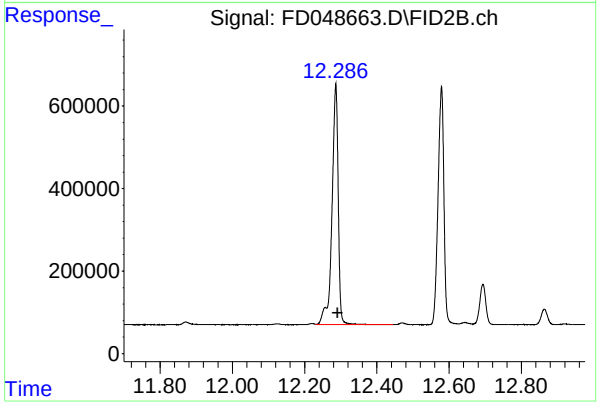
#10 Anthracene (C19.43)

R.T.: 10.557 min
Delta R.T.: -0.007 min
Response: 6486939
Conc: 40.57 ug/ml



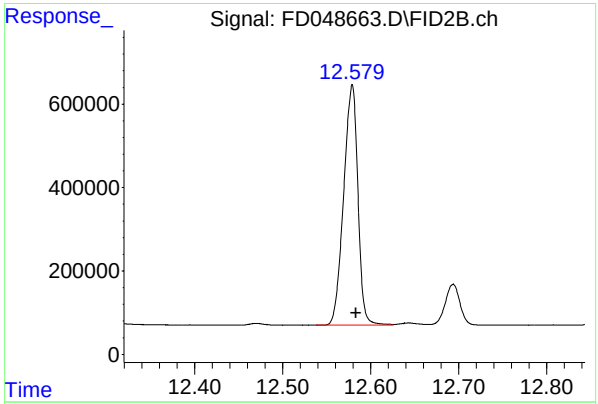
#11 ortho-Terphenyl (SURR)

R.T.: 11.254 min
Delta R.T.: -0.003 min
Response: 7117157
Conc: 41.78 ug/ml



#12 Fluoranthene (C21.85)

R.T.: 12.286 min
Delta R.T.: -0.005 min
Response: 6999864
Conc: 42.53 ug/ml



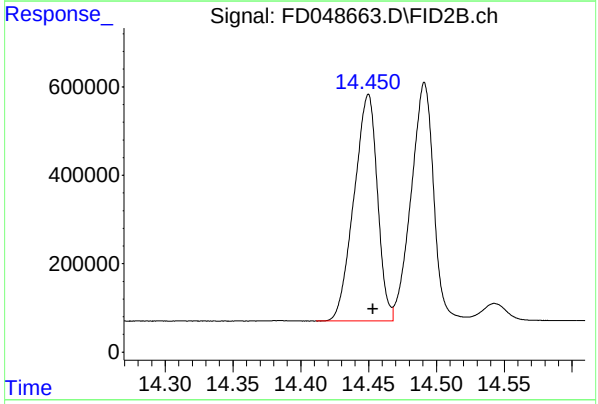
#13 Pyrene (C20.8)

R.T.: 12.578 min
Delta R.T.: -0.005 min
Response: 6499653
Conc: 40.35 ug/ml

Instrument :
FID_D
ClientSampleId :
PB164618BSD

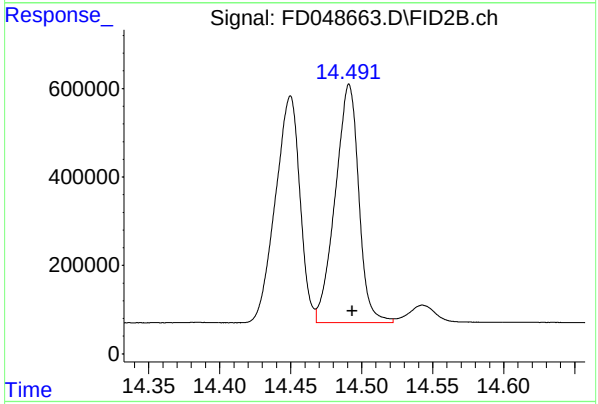
Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/06/2024
Supervised By :Ankita Jodhani 11/06/2024



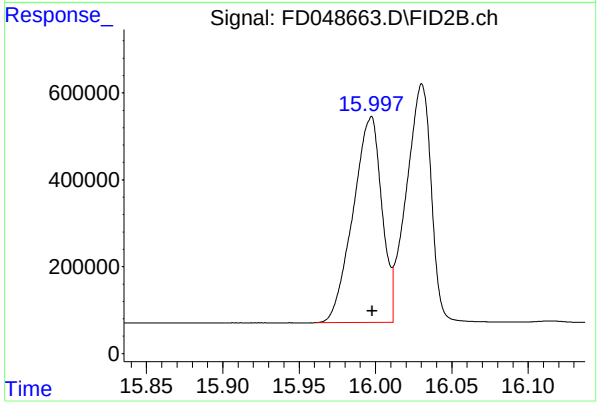
#14 Benzo[a]anthracene (C26.37)

R.T.: 14.449 min
Delta R.T.: -0.004 min
Response: 6164224
Conc: 42.16 ug/ml



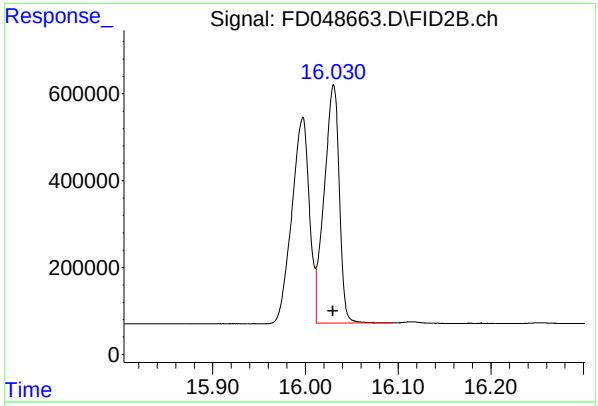
#15 Chrysene (C27.41)

R.T.: 14.491 min
Delta R.T.: -0.002 min
Response: 6221092
Conc: 37.82 ug/ml



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

R.T.: 15.996 min
Delta R.T.: -0.001 min
Response: 6225451
Conc: 40.95 ug/ml



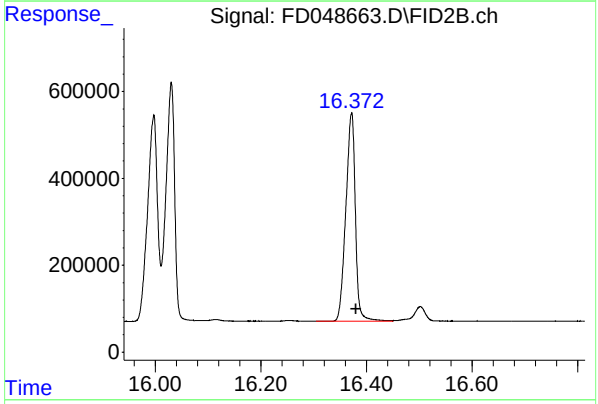
#17 Bnezo[k]fluoranthene (C30.14)

R.T.: 16.030 min
Delta R.T.: 0.000 min
Response: 6223184
Conc: 41.40 ug/ml

Instrument :
FID_D
ClientSampleId :
PB164618BSD

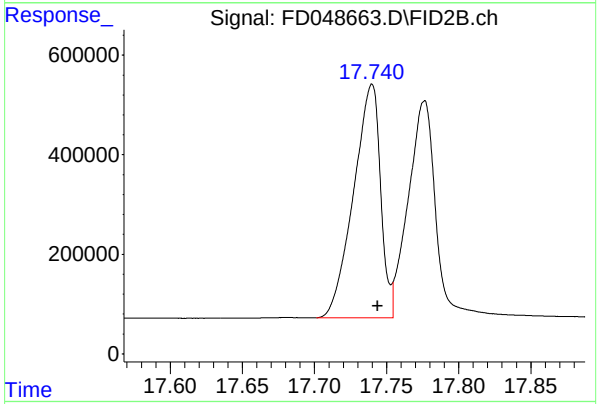
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/06/2024
Supervised By :Ankita Jodhani 11/06/2024



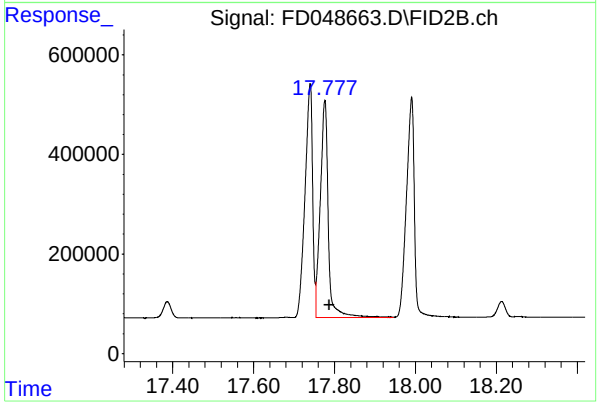
#18 Benzo[a]pyrene (C31.34)

R.T.: 16.371 min
Delta R.T.: -0.009 min
Response: 6037781
Conc: 40.12 ug/ml



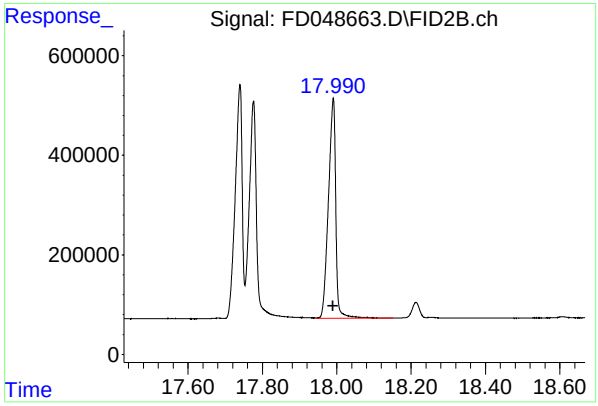
#19 Indeno[1,2,3-cd]pyrene (C35.01)

R.T.: 17.739 min
Delta R.T.: -0.005 min
Response: 6126712
Conc: 46.96 ug/ml



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

R.T.: 17.776 min
Delta R.T.: -0.011 min
Response: 5987680
Conc: 36.79 ug/ml



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

R.T.: 17.990 min
Delta R.T.: 0.000 mi
Response: 6053203
Conc: 39.54 ug/m

Instrument :
FID_D
ClientSampleId :
PB164618BSD

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/06/2024
Supervised By :Ankita Jodhani 11/06/2024

Instrument :
FID_D
ClientSampleId :
PB164618BSD

rteres

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/06/2024
Supervised By :Ankita Jodhani 11/06/2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD11042
Data File : FD048663.D
Signal(s) : FID2B.ch
Acq On : 05 Nov 2024 09:04
Sample : PB164618BSD
Misc :
ALS Vial : 73 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	4.191	4.161	4.258	BV	517110	3690917	51.86%	2.902%
2	5.709	5.591	5.803	BV	567525	5269478	74.04%	4.142%
3	6.755	6.720	6.885	VV	526223	5264169	73.96%	4.138%
4	7.369	7.340	7.458	PV	718349	6966463	97.88%	5.476%
5	8.021	7.981	8.148	PB	632934	6074486	85.35%	4.775%
6	8.219	8.155	8.286	BV	455443	4619930	64.91%	3.632%
7	8.317	8.286	8.428	VB	661898	6431815	90.37%	5.056%
8	9.095	8.918	9.235	BB	619111	6355350	89.30%	4.996%
9	10.482	10.407	10.528	PV	601491	6391018	89.80%	5.024%
10	10.557	10.528	10.738	VV	570225	6486939	91.15%	5.100%
11	11.254	11.188	11.325	BV	669933	7117157	100.00%	5.595%
12	12.286	12.232	12.445	VB	572369	6999864	98.35%	5.503%
13	12.578	12.538	12.625	BV	570479	6499653	91.32%	5.110%
14	14.449	14.411	14.468	PV	506820	6164224	86.61%	4.846%
15	14.491	14.468	14.522	VV	540566	6221092	87.41%	4.891%
16	15.997	15.961	16.012	BV	480446	6225451	87.47%	4.894%
17	16.030	16.012	16.095	VV	553893	6223184	87.44%	4.892%
18	16.371	16.305	16.450	BV	479494	6037781	84.83%	4.746%
19	17.739	17.701	17.755	BV	464509	6126712	86.08%	4.816%
20	17.776	17.755	17.945	VV	435338	5987680	84.13%	4.707%
21	17.990	17.945	18.151	VV	448297	6053203	85.05%	4.759%
			Sum of corrected areas:			127206566		

Aromatic EPH 102324.M Wed Nov 06 01:39:18 2024

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

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	10/29/24
Project:	RFP 872	Date Received:	10/29/24
Client Sample ID:	P001-CF16-01MS	SDG No.:	P4620
Lab Sample ID:	P4620-23	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	95.8
Sample Wt/Vol:	30.08 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FC067616.D	1	11/03/24	11/04/24	PB164618

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C12	Aliphatic C9-C12	6.75		0.40	1.04	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16	6.04		0.25	0.69	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21	9.55		0.31	1.04	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28	12.8		0.83	1.39	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	22.1		1.87	2.08	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	41.4		40 - 140	83%	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:	P4620-23	Acq On:	04 Nov 2024 23:56
Client Sample ID:	P001-CF16-01MS	Operator:	YP/AJ
Data file:	FC067616.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	3.171	6.449	13173058	97.24	300	ug/ml
Aliphatic C12-C16	6.450	9.838	11461452	87.039	200	ug/ml
Aliphatic C16-C21	9.839	13.196	17500259	137.543	300	ug/ml
Aliphatic C21-C28	13.197	16.847	22141218	184.371	400	ug/ml
Aliphatic C28-C40	16.848	21.685	32231760	318.832	600	ug/ml
Aliphatic EPH	3.171	21.685	96507747	825.025		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	12.929	12.929	4474176	41.43		ug/ml
Aliphatic C9-C28	3.171	16.847	64275987	506.193	1200	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC110424AL\
Data File : FC067616.D
Signal(s) : FID1A.ch
Acq On : 04 Nov 2024 23:56
Operator : YP/AJ
Sample : P4620-23
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
P001-CF16-01MS

Integration File: autoint1.e
Quant Time: Nov 05 03:45:52 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...	12.929	4474176	41.432 ug/ml
Spiked Amount 50.000		Recovery =	82.86%
Target Compounds			
1) T n-Nonane (C9)	3.272	3505277	26.019 ug/ml
2) T n-Decane (C10)	4.336	4378121	32.134 ug/ml
4) T n-Dodecane (C12)	6.351	5240924	38.695 ug/ml
6) T n-Tetradecane (C14)	8.143	5609450	42.735 ug/ml
7) T n-Hexadecane (C16)	9.741	5761494	43.614 ug/ml
8) T n-Octadecane (C18)	11.181	5889688	44.581 ug/ml
10) T n-Eicosane (C20)	12.488	5905170	46.801 ug/ml
11) T n-Heneicosane (C21)	13.099	5664120	45.895 ug/ml
13) T n-Docosane (C22)	13.684	5635567	46.024 ug/ml
14) T n-Tetracosane (C24)	14.784	5546099	45.756 ug/ml
15) T n-Hexacosane (C26)	15.804	5476452	45.999 ug/ml
16) T n-Octacosane (C28)	16.752	5437564	46.219 ug/ml
17) T n-Tricontane (C30)	17.637	5468245	45.240 ug/ml
18) T n-Dotriacontane (C32)	18.468	5418010	45.791 ug/ml
19) T n-Tetratriacontane (C34)	19.251	5421058	51.763 ug/ml
20) T n-Hexatriacontane (C36)	19.987	5241330	57.580 ug/mlm
21) T n-Octatriacontane (C38)	20.711	5228654	60.375 ug/ml
22) T n-Tetracontane (C40)	21.592	5174442	60.868 ug/ml

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

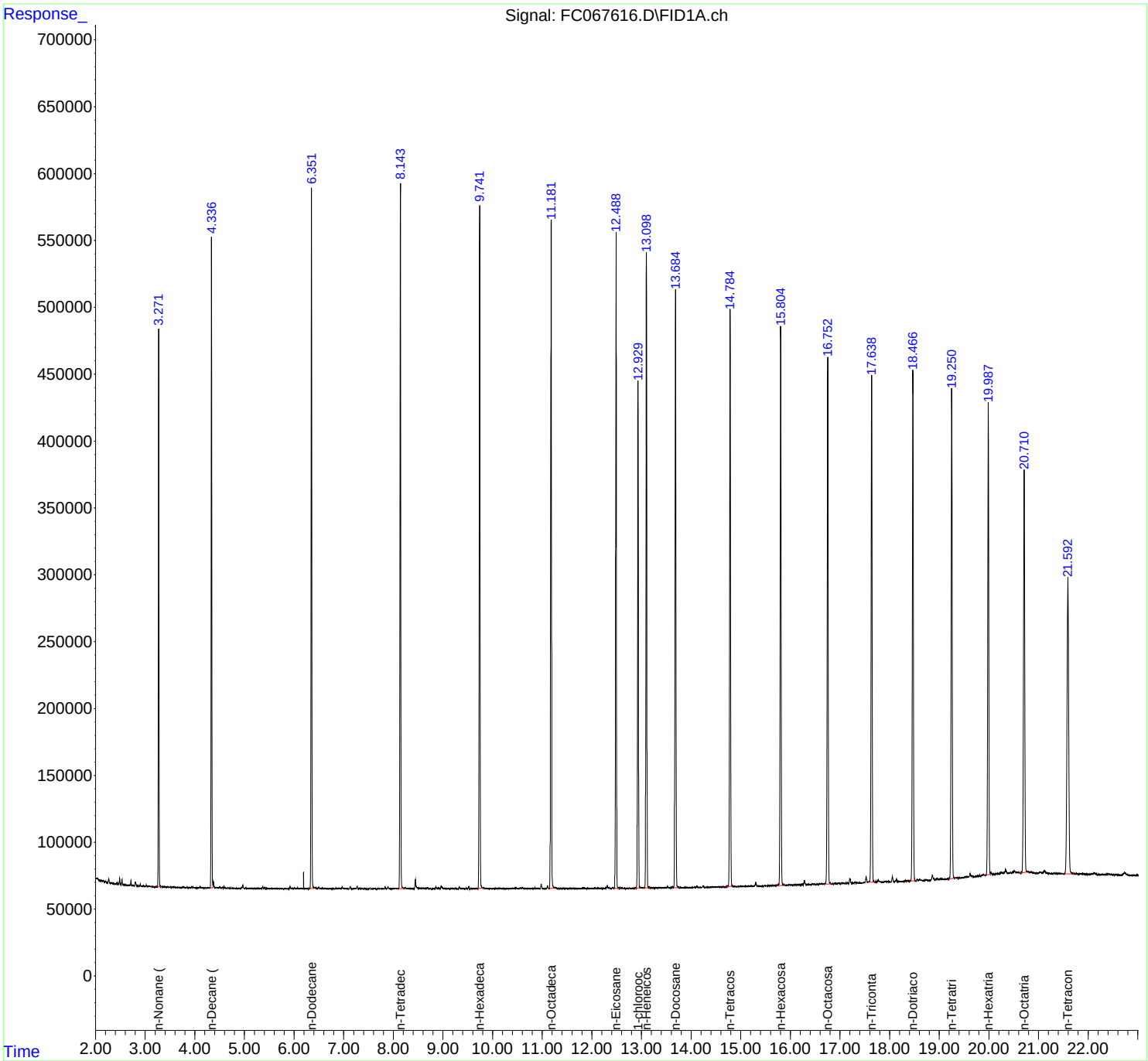
Quantitation Report (QT Reviewed)

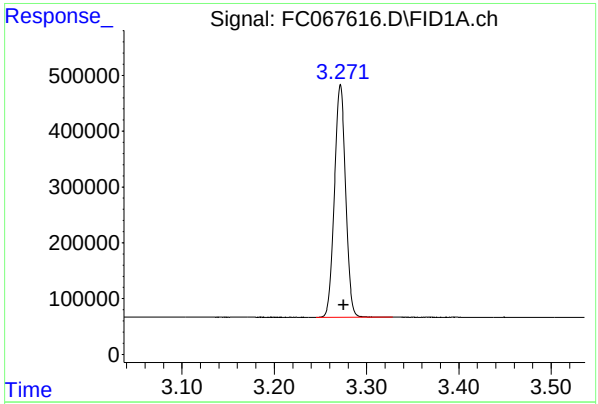
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC110424AL\
Data File : FC067616.D
Signal(s) : FID1A.ch
Acq On : 04 Nov 2024 23:56
Operator : YP/AJ
Sample : P4620-23
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
P001-CF16-01MS

Integration File: autoint1.e
Quant Time: Nov 05 03:45:52 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

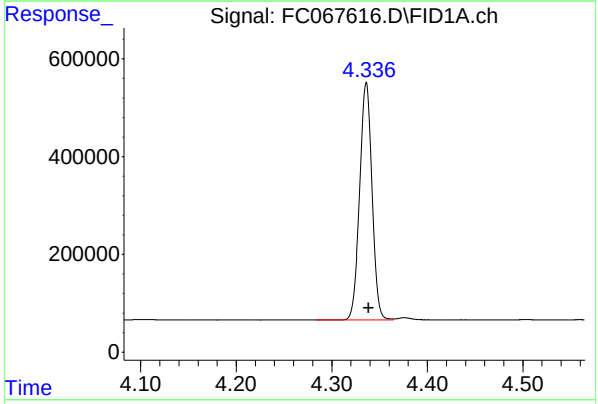




#1 n-Nonane (C9)

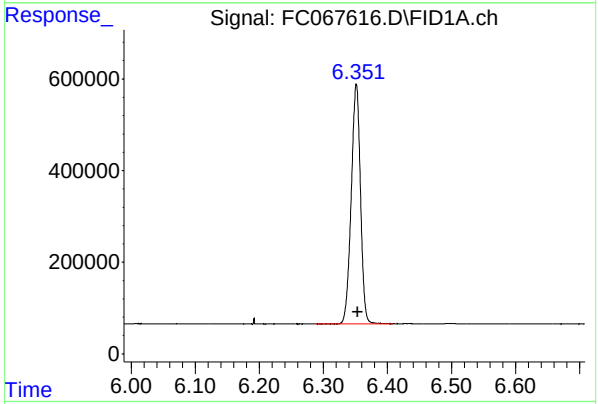
R.T.: 3.272 min
Delta R.T.: -0.003 min
Response: 3505277
Conc: 26.02 ug/ml

Instrument :
FID_C
ClientSampleId :
P001-CF16-01MS



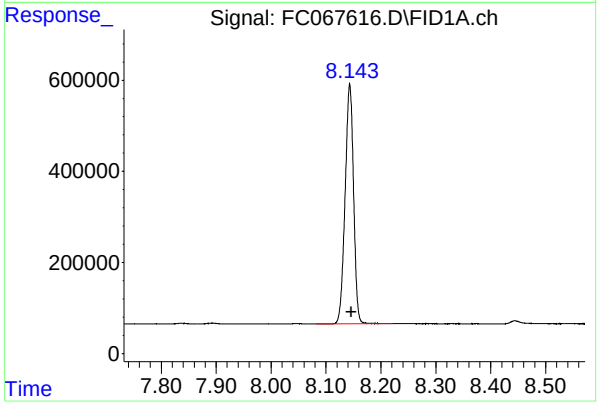
#2 n-Decane (C10)

R.T.: 4.336 min
Delta R.T.: -0.002 min
Response: 4378121
Conc: 32.13 ug/ml



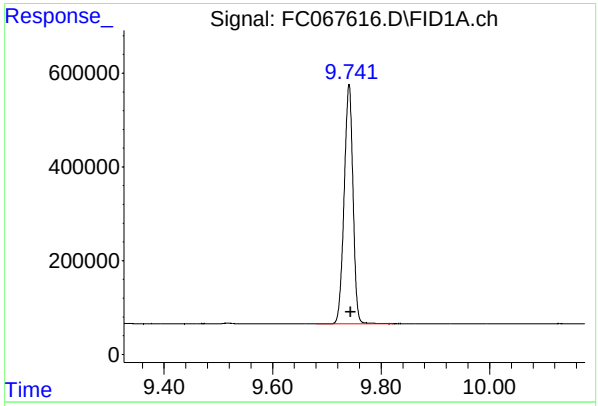
#4 n-Dodecane (C12)

R.T.: 6.351 min
Delta R.T.: -0.002 min
Response: 5240924
Conc: 38.69 ug/ml



#6 n-Tetradecane (C14)

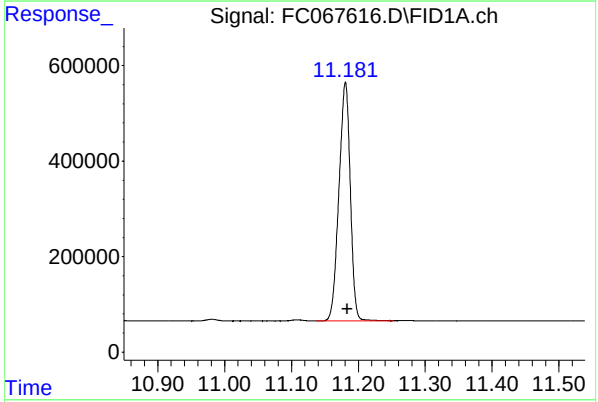
R.T.: 8.143 min
Delta R.T.: -0.003 min
Response: 5609450
Conc: 42.74 ug/ml



#7 n-Hexadecane (C16)

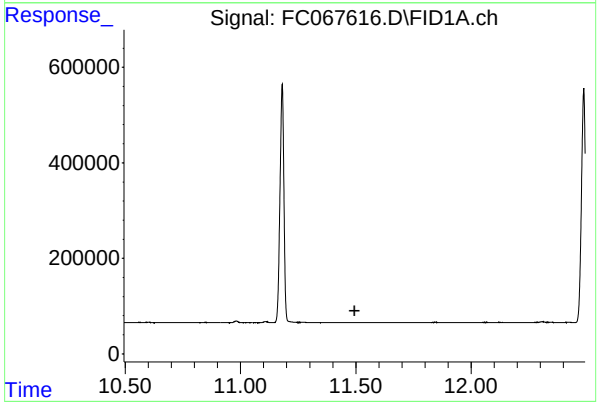
R.T.: 9.741 min
Delta R.T.: -0.003 min
Response: 5761494
Conc: 43.61 ug/ml

Instrument :
FID_C
ClientSampleId :
P001-CF16-01MS



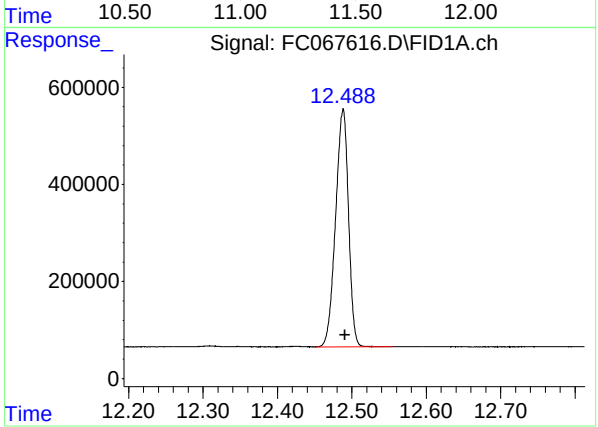
#8 n-Octadecane (C18)

R.T.: 11.181 min
Delta R.T.: -0.003 min
Response: 5889688
Conc: 44.58 ug/ml



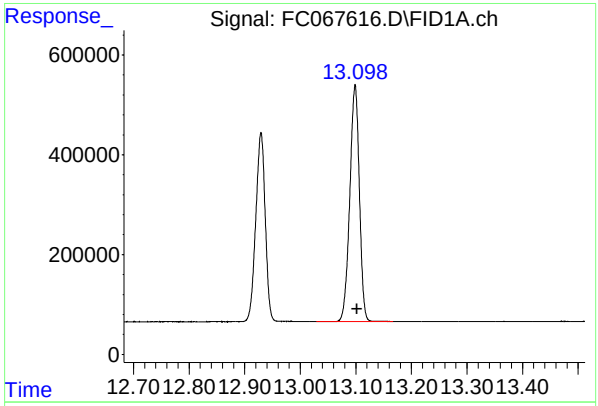
#9 ortho-Terphenyl (SURR)

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



#10 n-Eicosane (C20)

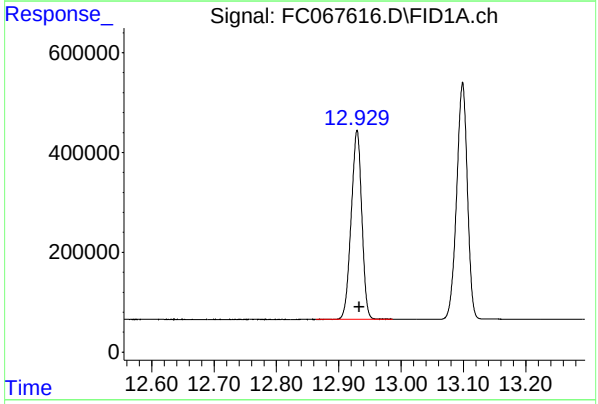
R.T.: 12.488 min
Delta R.T.: -0.003 min
Response: 5905170
Conc: 46.80 ug/ml



#11 n-Heneicosane (C21)

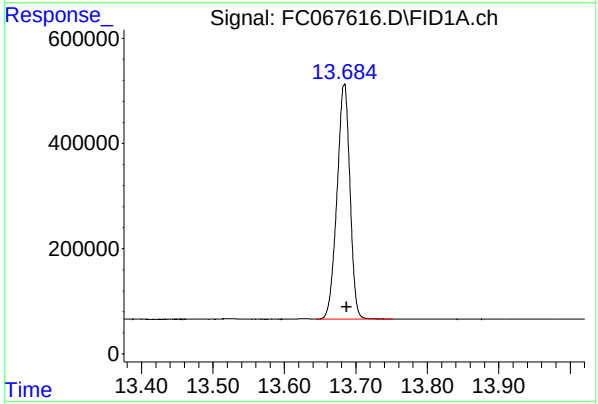
R.T.: 13.099 min
Delta R.T.: -0.003 min
Response: 5664120
Conc: 45.90 ug/ml

Instrument :
FID_C
ClientSampleId :
P001-CF16-01MS



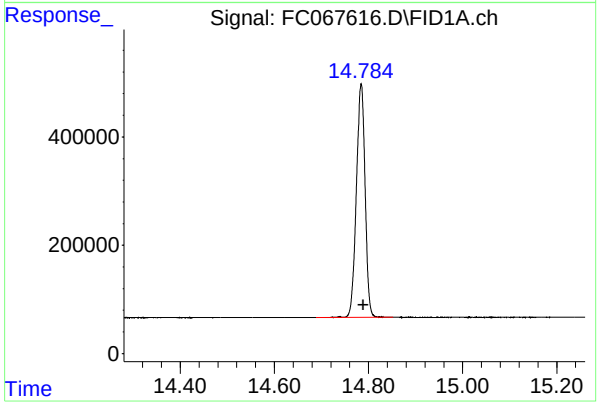
#12 1-chlorooctadecane (SURR)

R.T.: 12.929 min
Delta R.T.: -0.004 min
Response: 4474176
Conc: 41.43 ug/ml



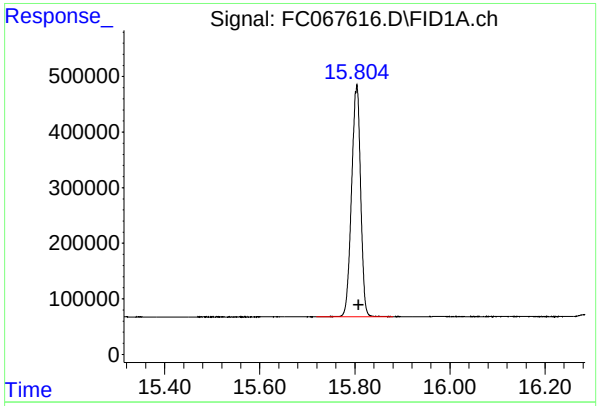
#13 n-Docosane (C22)

R.T.: 13.684 min
Delta R.T.: -0.004 min
Response: 5635567
Conc: 46.02 ug/ml



#14 n-Tetracosane (C24)

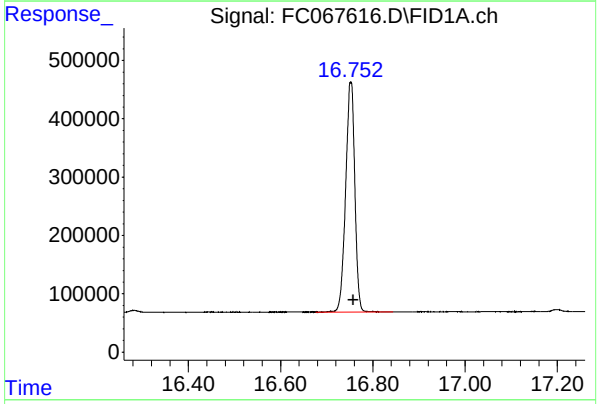
R.T.: 14.784 min
Delta R.T.: -0.005 min
Response: 5546099
Conc: 45.76 ug/ml



#15 n-Hexacosane (C26)

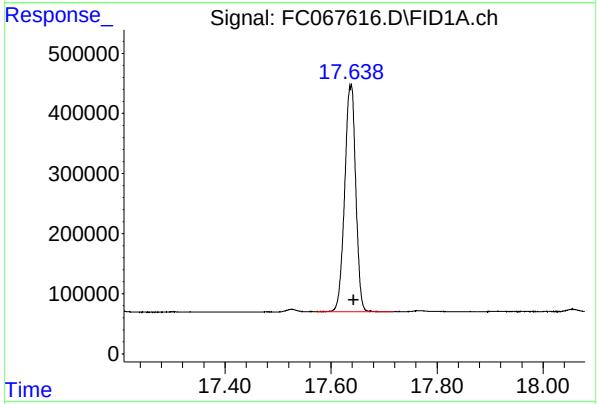
R.T.: 15.804 min
Delta R.T.: -0.004 min
Response: 5476452
Conc: 46.00 ug/ml

Instrument :
FID_C
ClientSampleId :
P001-CF16-01MS



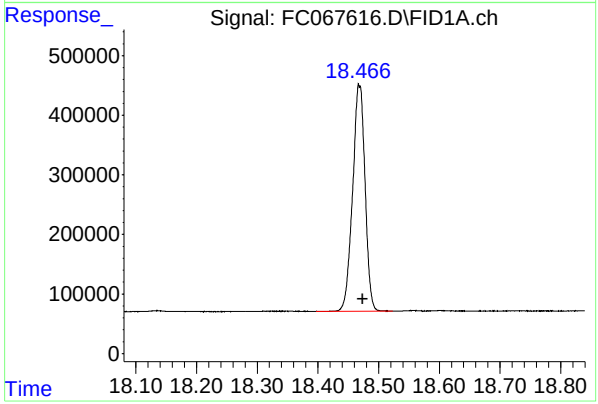
#16 n-Octacosane (C28)

R.T.: 16.752 min
Delta R.T.: -0.006 min
Response: 5437564
Conc: 46.22 ug/ml



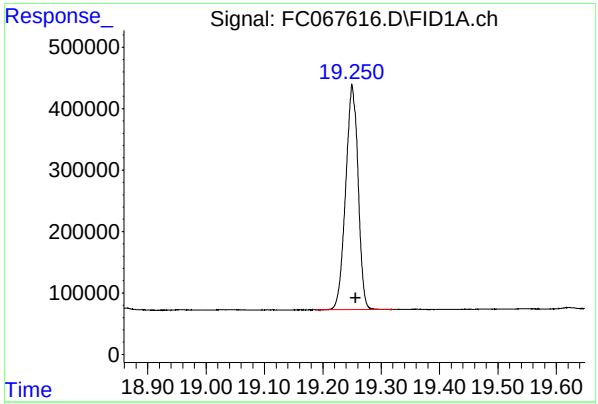
#17 n-Tricontane (C30)

R.T.: 17.637 min
Delta R.T.: -0.005 min
Response: 5468245
Conc: 45.24 ug/ml



#18 n-Dotriacontane (C32)

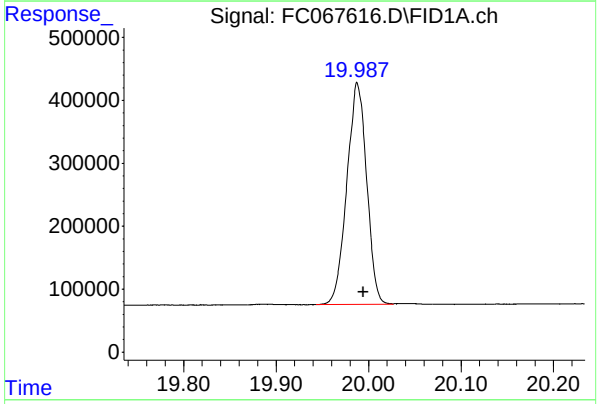
R.T.: 18.468 min
Delta R.T.: -0.006 min
Response: 5418010
Conc: 45.79 ug/ml



#19 n-Tetratriacontane (C34)

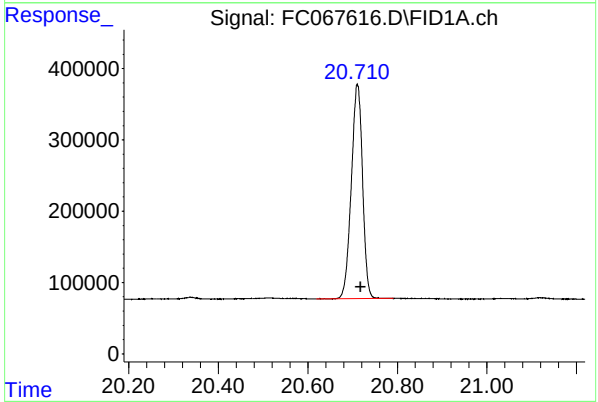
R.T.: 19.251 min
Delta R.T.: -0.006 mi
Response: 5421058
Conc: 51.76 ug/ml

Instrument :
FID_C
ClientSampleId :
P001-CF16-01MS



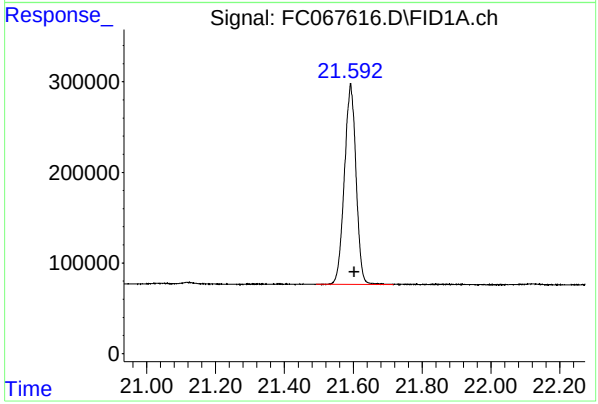
#20 n-Hexatriacontane (C36)

R.T.: 19.987 min
Delta R.T.: -0.007 min
Response: 5241330
Conc: 57.58 ug/ml m



#21 n-Octatriacontane (C38)

R.T.: 20.711 min
Delta R.T.: -0.007 min
Response: 5228654
Conc: 60.38 ug/ml



#22 n-Tetracontane (C40)

R.T.: 21.592 min
Delta R.T.: -0.011 min
Response: 5174442
Conc: 60.87 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC110424AL\
Data File : FC067616.D
Signal(s) : FID1A.ch
Acq On : 04 Nov 2024 23:56
Sample : P4620-23
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	3.272	3.245	3.329	BB	417005	3505277	59.36%	3.471%
2	4.336	4.284	4.364	BV	488219	4378121	74.14%	4.336%
3	4.376	4.364	4.415	VB	4633	48736	0.83%	0.048%
4	6.351	6.289	6.409	BB	524896	5240924	88.75%	5.190%
5	8.143	8.082	8.222	BB	526229	5609450	94.99%	5.555%
6	8.444	8.394	8.505	BB	6802	90508	1.53%	0.090%
7	9.741	9.680	9.822	BB	511309	5761494	97.57%	5.705%
8	10.981	10.937	11.024	BB	3410	41281	0.70%	0.041%
9	11.181	11.137	11.252	PV	499951	5889688	99.74%	5.832%
10	12.488	12.452	12.555	PB	490911	5905170	100.00%	5.848%
11	12.929	12.864	12.987	BB	378446	4474176	75.77%	4.431%
12	13.099	13.029	13.167	BB	474506	5664120	95.92%	5.609%
13	13.684	13.644	13.752	PB	445780	5635567	95.43%	5.581%
14	14.784	14.689	14.852	BB	432375	5546099	93.92%	5.492%
15	15.804	15.719	15.880	BB	412558	5476452	92.74%	5.423%
16	16.282	16.237	16.332	BB	3284	45536	0.77%	0.045%
17	16.752	16.677	16.844	BB	393862	5437564	92.08%	5.385%
18	17.199	17.090	17.245	BB	3582	61479	1.04%	0.061%
19	17.526	17.439	17.555	BB	4265	53087	0.90%	0.053%
20	17.637	17.572	17.717	BB	373061	5468245	92.60%	5.415%
21	18.055	18.002	18.087	BV	3800	55614	0.94%	0.055%
22	18.468	18.397	18.524	BV	376553	5418010	91.75%	5.365%
23	18.862	18.809	18.917	BB	3677	69020	1.17%	0.068%
24	19.251	19.189	19.320	BB	364913	5421058	91.80%	5.368%
25	19.988	19.724	20.027	BV	348746	5188436	87.86%	5.138%
26	20.338	20.104	20.384	BB	2879	93715	1.59%	0.093%
27	20.711	20.619	20.790	BB	300461	5228654	88.54%	5.178%
28	21.592	21.492	21.715	BB	221795	5174442	87.63%	5.124%

Sum of corrected areas: 100981922

Aliphatic EPH 102324.M Tue Nov 05 05:29:17 2024

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

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	10/29/24
Project:	RFP 872	Date Received:	10/29/24
Client Sample ID:	P001-CF16-01MS	SDG No.:	P4620
Lab Sample ID:	P4620-23	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	95.8
Sample Wt/Vol:	30.08 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FD048653.D	1	11/03/24	11/04/24	PB164618

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	3.98		0.31	0.69	mg/kg
Aromatic C12-C16	Aromatic C12-C16	8.15		0.35	1.04	mg/kg
Aromatic C16-C21	Aromatic C16-C21	15.4		1.00	1.74	mg/kg
Aromatic C21-C36	Aromatic C21-C36	24.8		2.08	2.78	mg/kg
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	46.8		40 - 140	94%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	47.5		40 - 140	95%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	32.3		40 - 140	65%	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:	P4620-23	Acq On:	04 Nov 2024 23:56
Client Sample ID:	P001-CF16-01MS	Operator:	YP/AJ
Data file:	FD048653.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	4.093	5.811	10100145	57.321	200	ug/ml
Aromatic C12-C16	5.812	8.416	20812258	117.402	300	ug/ml
Aromatic C16-C21	8.417	12.676	36261185	221.331	500	ug/ml
Aromatic C21-C36	12.677	18.080	54666336	357.967	800	ug/ml
Aromatic EPH	4.093	18.080	121839924	754.021		ug/ml
ortho-Terphenyl (SURR)	11.258	11.258	5502781	32.3		ug/ml
2-Bromonaphthalene (SURR)	7.374	7.374	7108424	46.83		ug/ml
2-Flurobiphenyl (SURR)	8.224	8.224	4664272	47.5		ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD110424AR\
Data File : FD048653.D
Signal(s) : FID2B.ch
Acq On : 04 Nov 2024 23:56
Operator : YP/AJ
Sample : P4620-23
Misc :
ALS Vial : 68 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
P001-CF16-01MS

Integration File: autoint1.e
Quant Time: Nov 05 02:09:12 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	7108424	46.834	ug/ml
Spiked Amount	50.000		Recovery =	93.67%	
6)	S 2-Flurobiphenyl (SURR)	8.224	4664272	47.502	ug/ml
Spiked Amount	50.000 Range	0 - 131	Recovery =	95.00%	
11)	S ortho-Terphenyl (SURR)	11.258	5502781	32.305	ug/ml
Spiked Amount	50.000		Recovery =	64.61%	
	Target Compounds				
1)	T 1,2,3-Trimethylbenzen...	4.196	5172781	29.734	ug/mlm
2)	T Naphthalene (C11.7)	5.714	5991054	33.576	ug/mlm
3)	T 2-Methylnaphthalene (...	6.761	5861925	32.773	ug/ml
5)	T Acenaphthylene (C15.06)	8.027	6645346	37.845	ug/ml
7)	T Acenaphthene (C15.5)	8.322	6973319	39.317	ug/ml
8)	T Flouorene (C16.55)	9.100	6797980	40.216	ug/mlm
9)	T Phenanthrene (C19.36)	10.487	6668520	40.340	ug/ml
10)	T Anthracene (C19.43)	10.563	6673737	41.734	ug/ml
12)	T Fluoranthene (C21.85)	12.292	6716872	40.813	ug/mlm
13)	T Pyrene (C20.8)	12.584	6581081	40.857	ug/ml
14)	T Benzo[a]anthracene (C...	14.454	6219934	42.540	ug/mlm
15)	T Chrysene (C27.41)	14.496	6308117	38.349	ug/ml
16)	T benzo[b]fluoranthene ...	16.001	6239718	41.043	ug/ml
17)	T Bnezo[k]fluoranthene ...	16.035	6278608	41.773	ug/ml
18)	T Benzo[a]pyrene (C31.34)	16.377	6075005	40.367	ug/ml
19)	T Indeno[1,2,3-cd]pyren...	17.744	6453992	49.464	ug/ml
20)	T Dibenz[a,h]anthracene...	17.782	6171055	37.921	ug/ml
21)	T Benzo[g,h,i]perylene ...	17.995	6197054	40.479	ug/ml

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

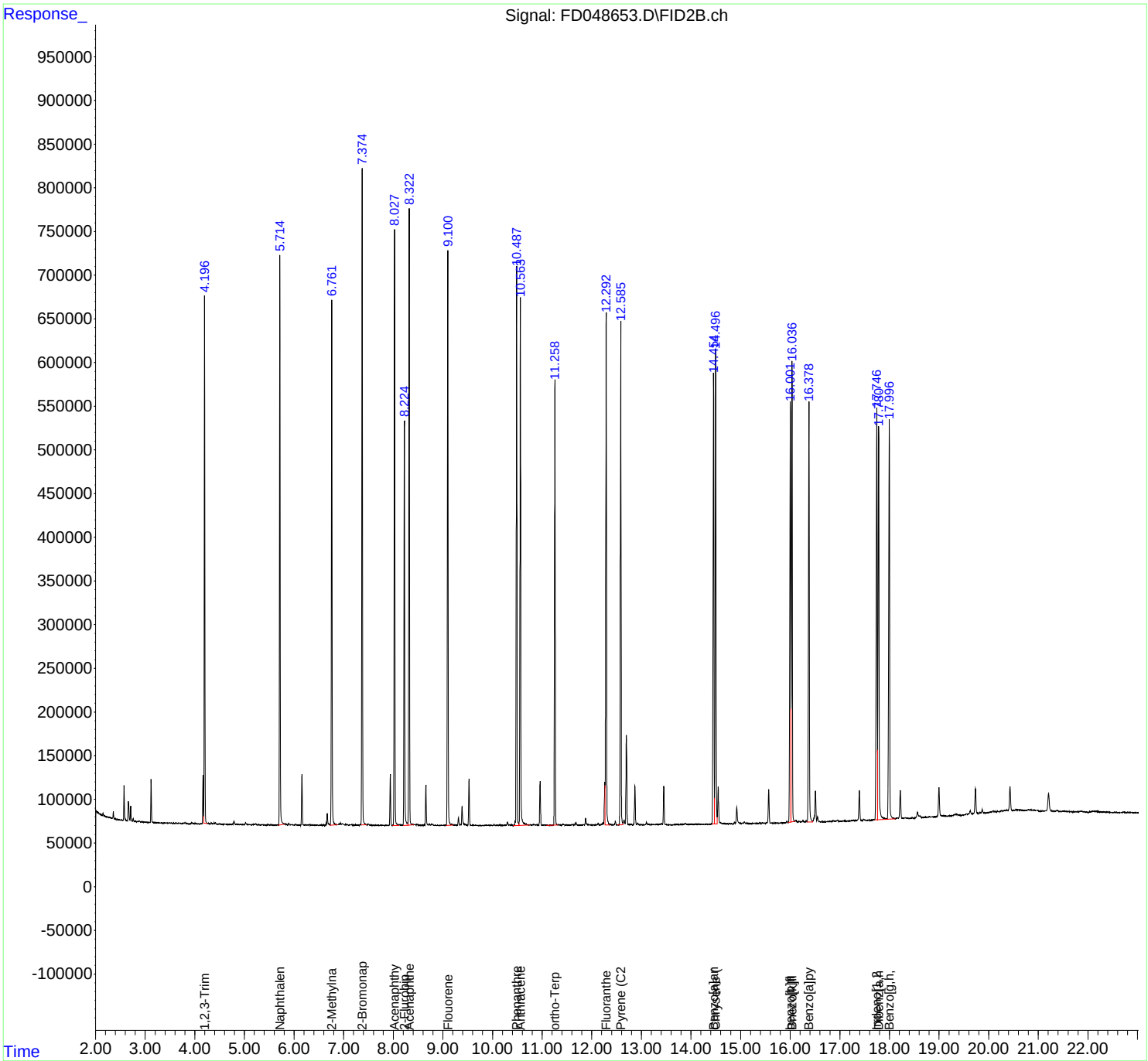
Quantitation Report (QT Reviewed)

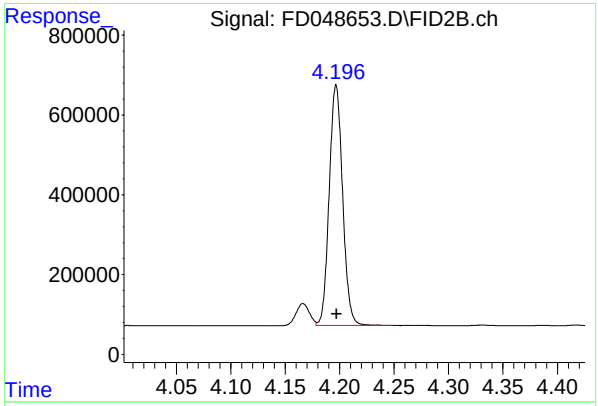
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD110424AR\
Data File : FD048653.D
Signal(s) : FID2B.ch
Acq On : 04 Nov 2024 23:56
Operator : YP/AJ
Sample : P4620-23
Misc :
ALS Vial : 68 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
P001-CF16-01MS

Integration File: autoint1.e
Quant Time: Nov 05 02:09:12 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

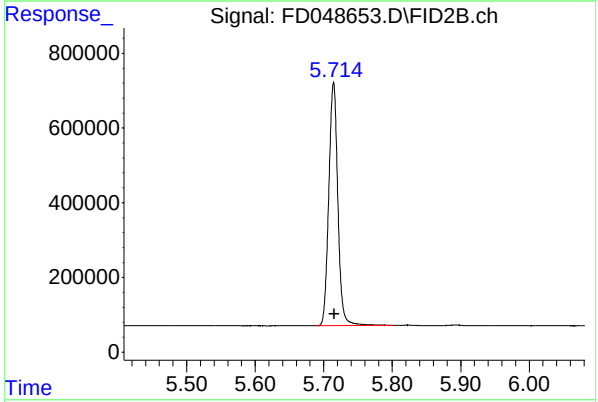




#1 1,2,3-Trimethylbenzene (C10.1)

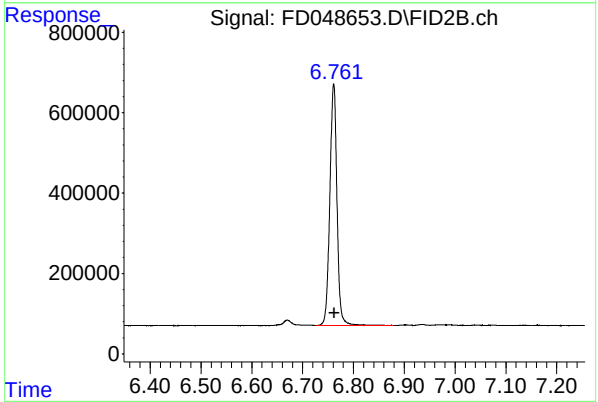
R.T.: 4.196 min
Delta R.T.: 0.000 mi
Response: 5172781
Conc: 29.73 ug/ml

Instrument :
FID_D
ClientSampleId :
P001-CF16-01MS



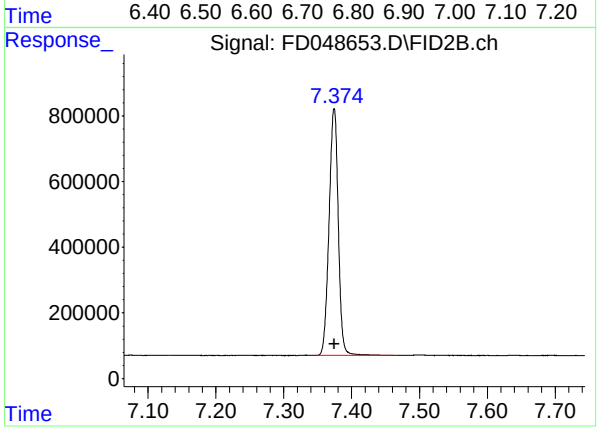
#2 Naphthalene (C11.7)

R.T.: 5.714 min
Delta R.T.: -0.001 min
Response: 5991054
Conc: 33.58 ug/ml m



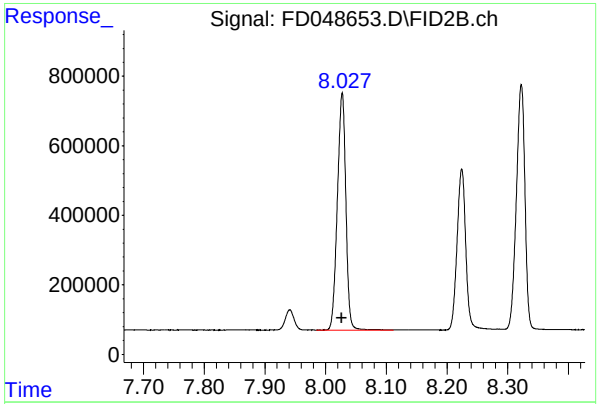
#3 2-Methylnaphthalene (C12.89)

R.T.: 6.761 min
Delta R.T.: -0.001 min
Response: 5861925
Conc: 32.77 ug/ml



#4 2-Bromonaphthalene (SURR)

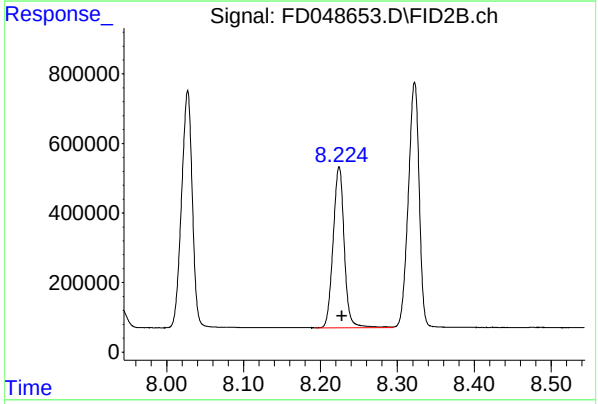
R.T.: 7.374 min
Delta R.T.: 0.000 min
Response: 7108424
Conc: 46.83 ug/ml



#5 Acenaphthylene (C15.06)

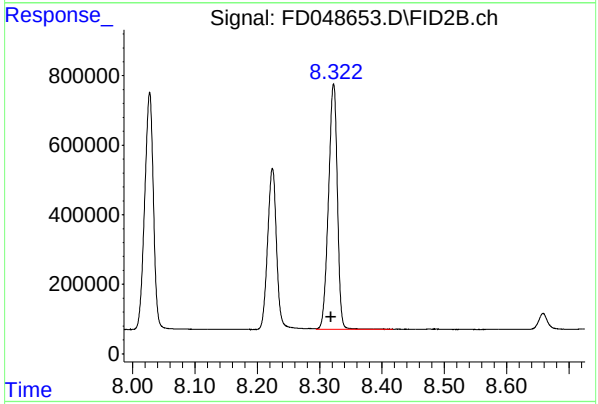
R.T.: 8.027 min
Delta R.T.: 0.000 mi
Response: 6645346
Conc: 37.85 ug/m

Instrument :
FID_D
ClientSampleId :
P001-CF16-01MS



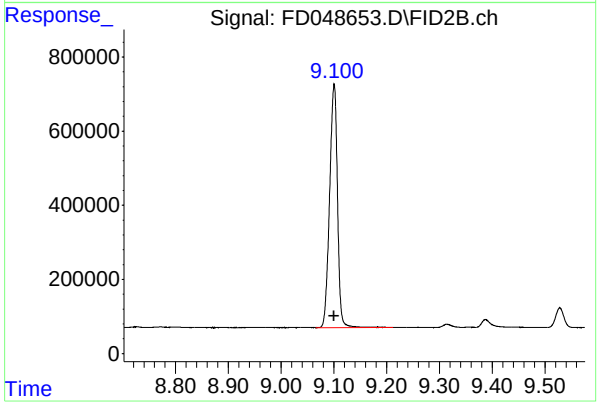
#6 2-Flurobiphenyl (SURR)

R.T.: 8.224 min
Delta R.T.: -0.004 min
Response: 4664272
Conc: 47.50 ug/ml



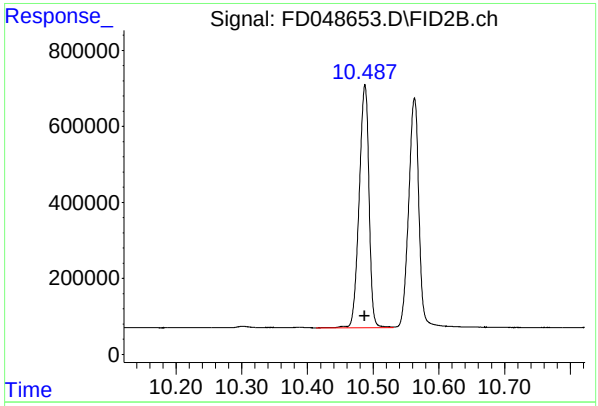
#7 Acenaphthene (C15.5)

R.T.: 8.322 min
Delta R.T.: 0.004 min
Response: 6973319
Conc: 39.32 ug/ml



#8 Flouorene (C16.55)

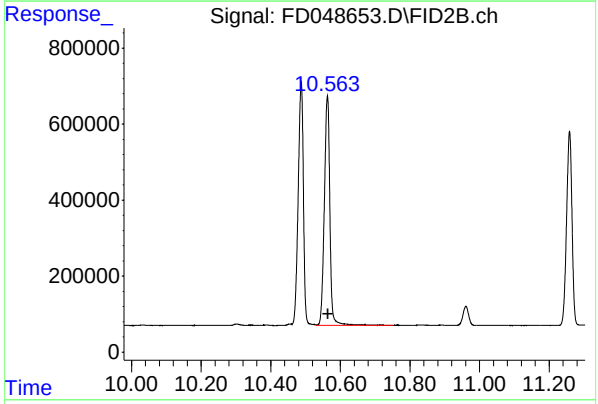
R.T.: 9.100 min
Delta R.T.: 0.000 min
Response: 6797980
Conc: 40.22 ug/ml m



#9 Phenanthrene (C19.36)

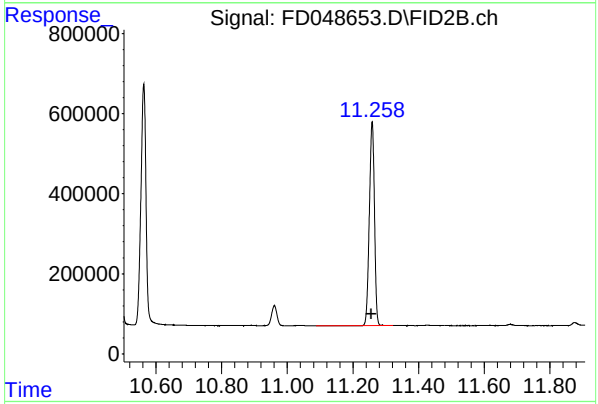
R.T.: 10.487 min
Delta R.T.: 0.000 mi
Response: 6668520
Conc: 40.34 ug/m

Instrument :
FID_D
ClientSampleId :
P001-CF16-01MS



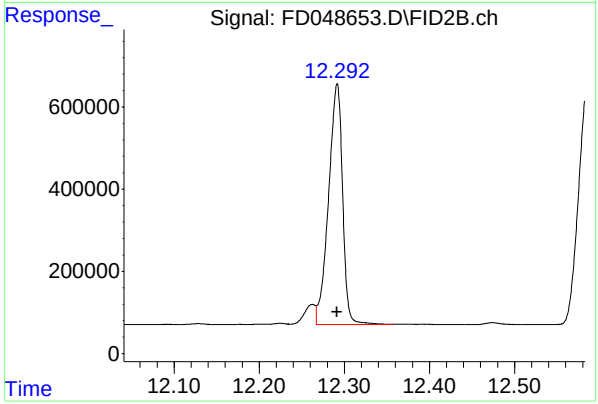
#10 Anthracene (C19.43)

R.T.: 10.563 min
Delta R.T.: -0.002 min
Response: 6673737
Conc: 41.73 ug/ml



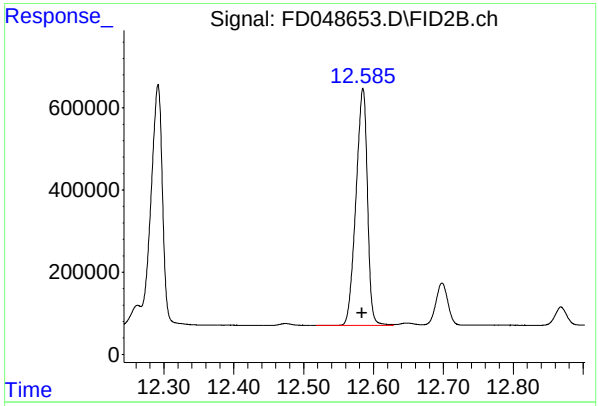
#11 ortho-Terphenyl (SURR)

R.T.: 11.258 min
Delta R.T.: 0.002 min
Response: 5502781
Conc: 32.30 ug/ml



#12 Fluoranthene (C21.85)

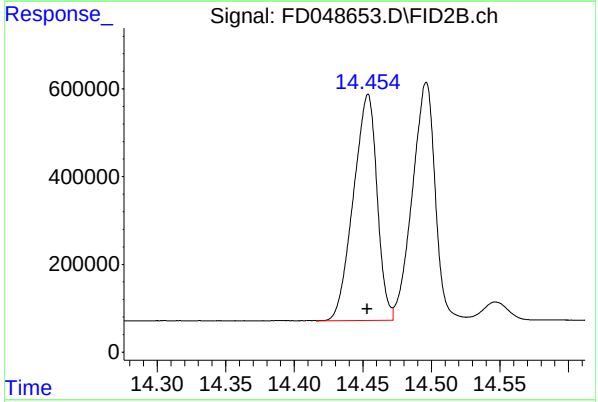
R.T.: 12.292 min
Delta R.T.: 0.000 min
Response: 6716872
Conc: 40.81 ug/ml m



#13 Pyrene (C20.8)

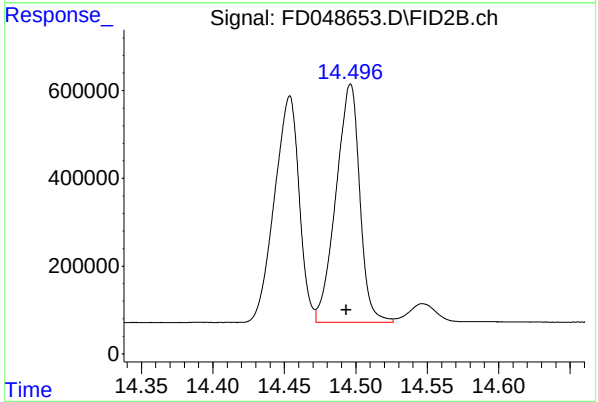
R.T.: 12.584 min
Delta R.T.: 0.001 mi
Response: 6581081
Conc: 40.86 ug/ml

Instrument :
FID_D
ClientSampleId :
P001-CF16-01MS



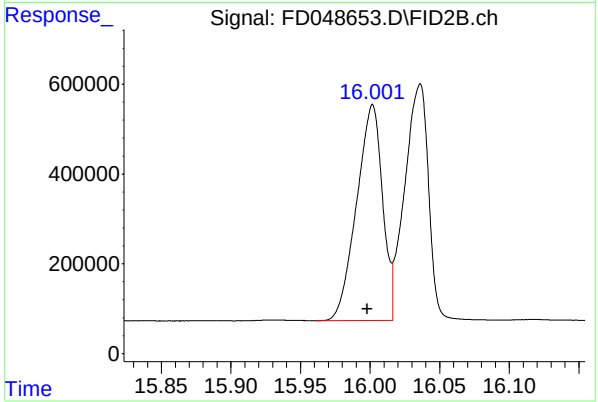
#14 Benzo[a]anthracene (C26.37)

R.T.: 14.454 min
Delta R.T.: 0.000 min
Response: 6219934
Conc: 42.54 ug/ml m



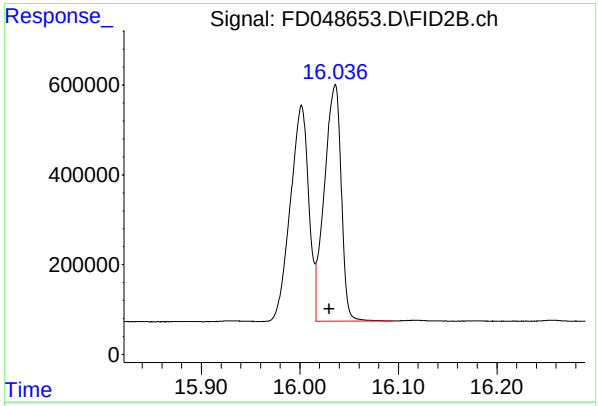
#15 Chrysene (C27.41)

R.T.: 14.496 min
Delta R.T.: 0.003 min
Response: 6308117
Conc: 38.35 ug/ml



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

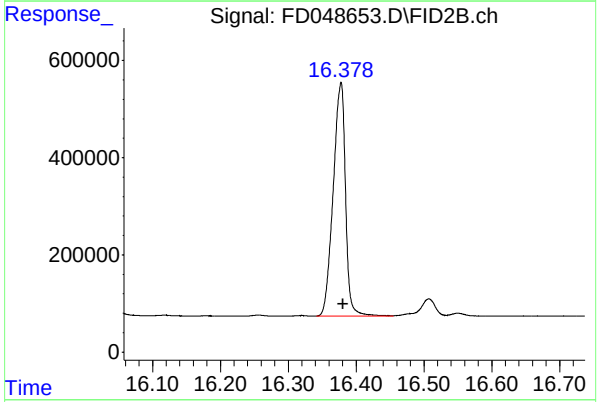
R.T.: 16.001 min
Delta R.T.: 0.003 min
Response: 6239718
Conc: 41.04 ug/ml



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

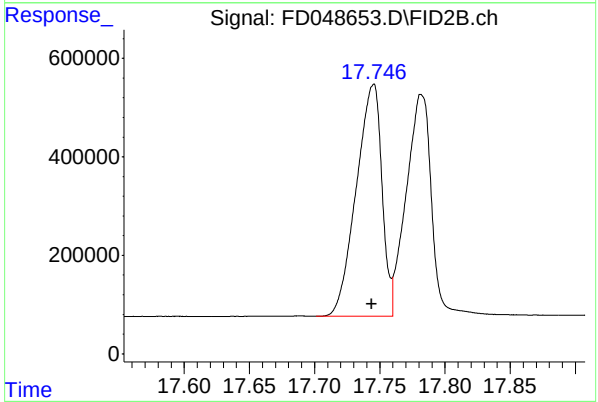
R.T.: 16.035 min
Delta R.T.: 0.005 min
Response: 6278608
Conc: 41.77 ug/ml

Instrument :
FID_D
ClientSampleId :
P001-CF16-01MS



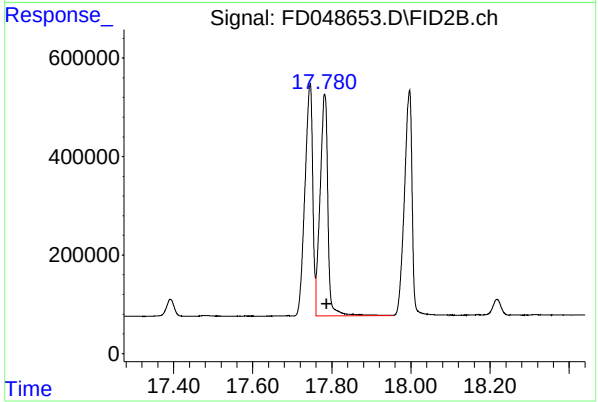
#18 Benzo[a]pyrene (C31.34)

R.T.: 16.377 min
Delta R.T.: -0.004 min
Response: 6075005
Conc: 40.37 ug/ml



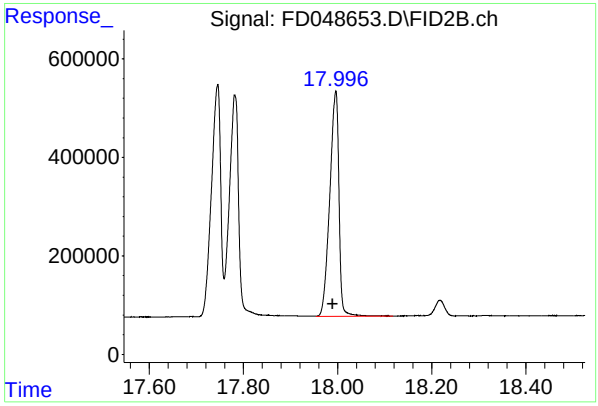
#19 Indeno[1,2,3-cd]pyrene (C35.01)

R.T.: 17.744 min
Delta R.T.: 0.000 min
Response: 6453992
Conc: 49.46 ug/ml



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

R.T.: 17.782 min
Delta R.T.: -0.005 min
Response: 6171055
Conc: 37.92 ug/ml



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

R.T.: 17.995 min
Delta R.T.: 0.006 mi
Response: 6197054
Conc: 40.48 ug/m

Instrument :
FID_D
ClientSampleId :
P001-CF16-01MS

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD110424AR\
Data File : FD048653.D
Signal(s) : FID2B.ch
Acq On : 04 Nov 2024 23:56
Sample : P4620-23
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	4.197	4.161	4.301	BB	572815	4106137	57.29%	2.952%
2	4.790	4.744	4.831	BV	4061	59672	0.83%	0.043%
3	5.714	5.501	5.807	BV	650427	5934336	82.80%	4.266%
4	6.160	6.071	6.218	BV	57809	572875	7.99%	0.412%
5	6.670	6.621	6.726	BV	13506	178295	2.49%	0.128%
6	6.761	6.726	6.878	VV	601529	5861925	81.79%	4.214%
7	7.374	7.348	7.461	VV	755165	7108424	99.18%	5.110%
8	7.941	7.878	7.984	BV	58371	580498	8.10%	0.417%
9	8.027	7.984	8.111	PV	685766	6645346	92.72%	4.777%
10	8.224	8.194	8.294	PV	464232	4664272	65.08%	3.353%
11	8.322	8.294	8.418	VB	702475	6973319	97.30%	5.013%
12	8.659	8.604	8.706	PV	45838	461971	6.45%	0.332%
13	9.100	8.918	9.221	BB	662030	6806519	94.97%	4.893%
14	9.315	9.294	9.344	BV	8873	106287	1.48%	0.076%
15	9.388	9.366	9.500	VV	21590	307194	4.29%	0.221%
16	9.528	9.500	9.584	VV	53464	572340	7.99%	0.411%
17	10.302	10.276	10.330	VV	4001	57271	0.80%	0.041%
18	10.487	10.413	10.530	PV	642392	6668520	93.05%	4.794%
19	10.563	10.530	10.751	VB	602134	6673737	93.12%	4.797%
20	10.961	10.919	10.998	PV	50586	566914	7.91%	0.408%
21	11.258	11.088	11.322	BV	508871	5502781	76.78%	3.956%
22	11.679	11.634	11.739	VV	3444	54437	0.76%	0.039%
23	11.875	11.854	11.944	VV	7764	102843	1.43%	0.074%
24	12.291	12.236	12.414	VB	585639	7166892	100.00%	5.152%
25	12.474	12.421	12.518	BV	4490	50440	0.70%	0.036%
26	12.584	12.518	12.628	PV	577057	6581081	91.83%	4.731%
27	12.648	12.628	12.670	VV	5586	84739	1.18%	0.061%
28	12.698	12.670	12.774	VB	102742	1224667	17.09%	0.880%
29	12.868	12.778	12.904	BV	44324	495211	6.91%	0.356%
30	13.451	13.421	13.528	VB	43873	531370	7.41%	0.382%
31	14.453	14.288	14.472	BV	520541	6223785	86.84%	4.474%
32	14.496	14.472	14.526	VV	537221	6308117	88.02%	4.534%
33	14.547	14.526	14.644	VV	42255	600459	8.38%	0.432%
34	14.921	14.896	14.998	VV	18536	276586	3.86%	0.199%
35	15.565	15.538	15.654	VB	38590	486026	6.78%	0.349%
36	16.001	15.961	16.016	BV	479023	6239718	87.06%	4.485%

rteres

37	16.035	16.016	16.094	VV	520937	6278608	87.61%	4.513%
38	16.377	16.341	16.454	PV	483099	6075005	84.76%	4.367%
39	16.507	16.454	16.533	VV	35498	546239	7.62%	0.393%
40	16.550	16.533	16.598	VB	5794	79452	1.11%	0.057%
41	17.392	17.328	17.444	BV	34850	478992	6.68%	0.344%
42	17.744	17.701	17.760	BV	470990	6453992	90.05%	4.639%
43	17.782	17.760	17.954	VV	453183	6171055	86.11%	4.436%
44	17.995	17.954	18.118	VV	451524	6197054	86.47%	4.455%

Sum of corrected areas: 139115401

Aromatic EPH 102324.M Tue Nov 05 03:39:16 2024

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

Report of Analysis

Client:	Weston Solutions, Inc.		Date Collected:	10/29/24	
Project:	RFP 872		Date Received:	10/29/24	
Client Sample ID:	P001-CF16-01MS		SDG No.:	P4620	
Lab Sample ID:	P4620-26		Matrix:	Water	
Analytical Method:	NJEPH		% Solid:	0	
Sample Wt/Vol:	1000	Units: mL	Final Vol:	2000	uL
Soil Aliquot Vol:		uL	Test:	EPH	
Prep Method :	SW3510				

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FF014917.D	1	11/03/24	11/04/24	PB164637

CAS Number	Parameter		Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
Aromatic C10-C12	Aromatic C10-C12		155		3.32	20.0	ug/l
Aromatic C12-C16	Aromatic C12-C16		250		3.69	30.0	ug/l
Aromatic C16-C21	Aromatic C16-C21		444		12.7	50.0	ug/l
Aromatic C21-C36	Aromatic C21-C36		637		25.2	80.0	ug/l
SURROGATES							
580-13-2	2-Bromonaphthalene (SURR)		44.5		40 - 140	89%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)		42.7		40 - 140	85%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)		41.5		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:	P4620-26	Acq On:	04 Nov 2024 16:53
Client Sample ID:	P001-CF16-01MS	Operator:	YP\AJ
Data file:	FF014917.D	Misc:	
Instrument:	FID_F	ALS Vial:	72
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.508	6.372	12117634	77.634	200	ug/ml
Aromatic C12-C16	6.373	9.064	19980027	125.173	300	ug/ml
Aromatic C16-C21	9.065	13.375	34570808	222.483	500	ug/ml
Aromatic C21-C36	13.376	18.817	47296550	318.614	800	ug/ml
Aromatic EPH	4.508	18.817	113965019	743.904		ug/ml
2-Bromonaphthalene (SURR)	7.992	7.992	6199787	44.46		ug/ml
2-Flurobiphenyl (SURR)	8.866	8.866	4028794	42.72		ug/ml
ortho-Terphenyl (SURR)	11.928	11.928	6646210	41.54		ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF110424AR\
Data File : FF014917.D
Signal(s) : FID2B.ch
Acq On : 04 Nov 2024 16:53
Operator : YP\AJ
Sample : P4620-26MS
Misc :
ALS Vial : 72 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
P001-CF16-01MS

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 11/06/2024
Supervised By :Ankita Jodhani 11/06/2024

Integration File: autoint1.e
Quant Time: Nov 05 01:27:09 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 102124.M
Quant Title : GC Extractables
QLast Update : Tue Oct 22 04:14:53 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...	7.992	6199787	44.460 ug/ml
	Spiked Amount 50.000		Recovery =	88.92%
6)	S 2-Flurobiphenyl (SURR)	8.866	4028794	42.719 ug/ml
	Spiked Amount 50.000 Range 0 - 131		Recovery =	85.44%
11)	S ortho-Terphenyl (SURR)	11.928	6646210	41.545 ug/ml
	Spiked Amount 50.000		Recovery =	83.09%
	Target Compounds			
1)	T 1,2,3-Trimethylbenzen...	4.610	5365712	35.275 ug/ml
2)	T Naphthalene (C11.7)	6.274	6011144	37.556 ug/ml
3)	T 2-Methylnaphthalene (...	7.367	5678480	35.100 ug/ml
5)	T Acenaphthylene (C15.06)	8.667	6228835	39.320 ug/ml
7)	T Acenaphthene (C15.5)	8.967	6476258	40.817 ug/ml
8)	T Flouorene (C16.55)	9.755	6296699	39.909 ug/ml
9)	T Phenanthrene (C19.36)	11.160	6095596	38.721 ug/ml
10)	T Anthracene (C19.43)	11.236	6000126	39.888 ug/ml
12)	T Fluoranthene (C21.85)	12.980	5907329	37.485 ug/ml
13)	T Pyrene (C20.8)	13.279	5848240	37.508 ug/ml
14)	T Benzo[a]anthracene (C...	15.157	5578219	36.708 ug/ml
15)	T Chrysene (C27.41)	15.202	6067856	39.263 ug/mlm
16)	T benzo[b]fluoranthene ...	16.715	5543156	36.257 ug/ml
17)	T Bnezo[k]fluoranthene ...	16.751	5612263	38.849 ug/mlm
18)	T Benzo[a]pyrene (C31.34)	17.096	5331243	35.716 ug/ml
19)	T Indeno[1,2,3-cd]pyren...	18.468	5553416	40.491 ug/mlm
20)	T Dibenz[a,h]anthracene...	18.506	5015670	34.525 ug/mlm
21)	T Benzo[g,h,i]perylene ...	18.726	5600527	39.202 ug/ml

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

Quantitation Report (QT Reviewed)

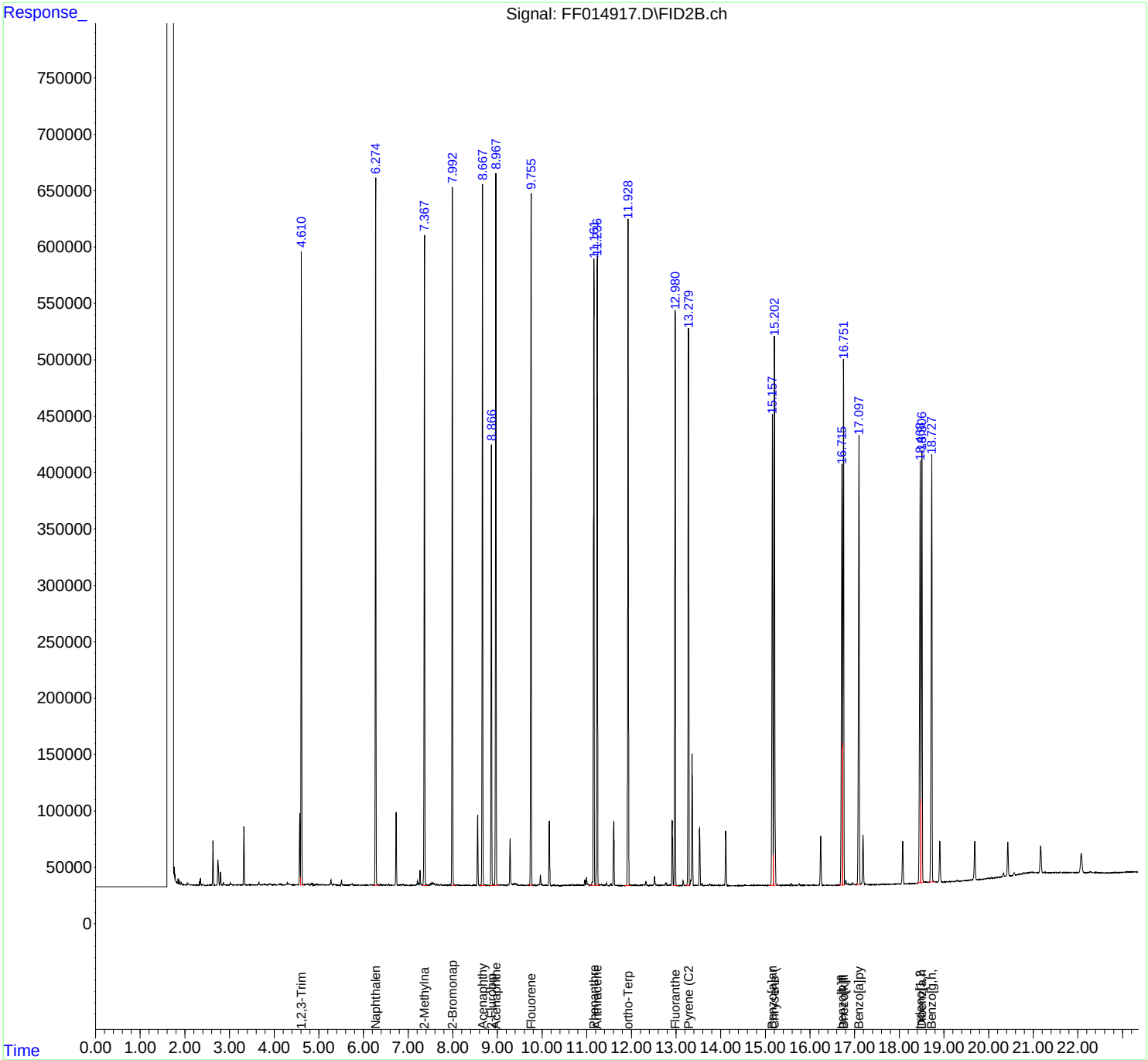
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF110424AR\
Data File : FF014917.D
Signal(s) : FID2B.ch
Acq On : 04 Nov 2024 16:53
Operator : YP\AJ
Sample : P4620-26MS
Misc :
ALS Vial : 72 Sample Multiplier: 1

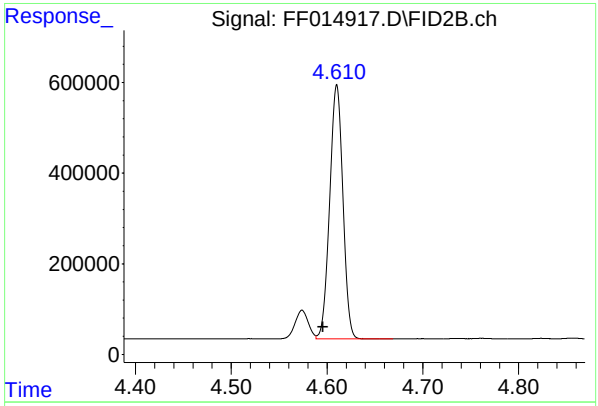
Integration File: autoint1.e
Quant Time: Nov 05 01:27:09 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 102124.M
Quant Title : GC Extractables
QLast Update : Tue Oct 22 04:14:53 2024
Response via : Initial Calibration
Integrator: ChemStation

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

Instrument :
FID_F
ClientSampleId :
P001-CF16-01MS

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 11/06/2024
Supervised By :Ankita Jodhani 11/06/2024





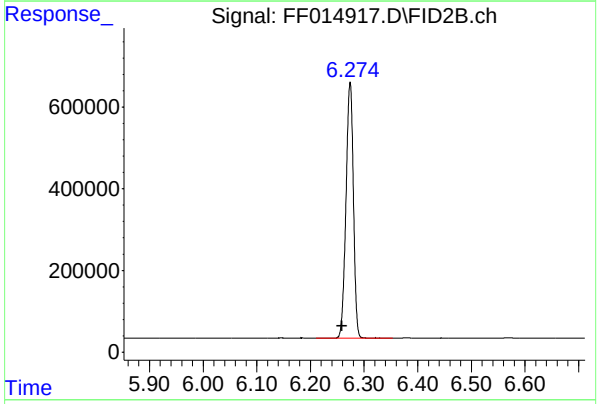
#1 1,2,3-Trimethylbenzene (C10.1)

R.T.: 4.610 min
Delta R.T.: 0.014 min
Response: 5365712
Conc: 35.27 ug/ml

Instrument :
FID_F
ClientSampleId :
P001-CF16-01MS

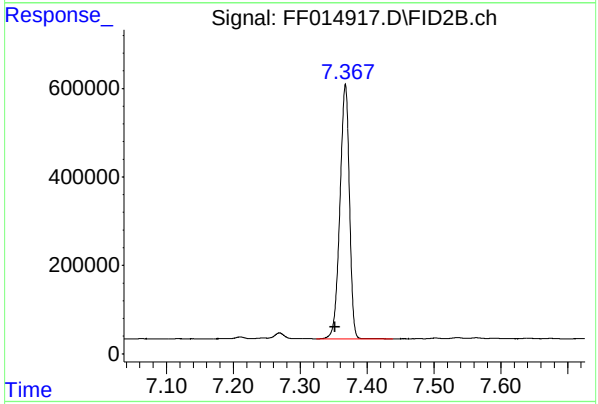
Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/06/2024
Supervised By :Ankita Jodhani 11/06/2024



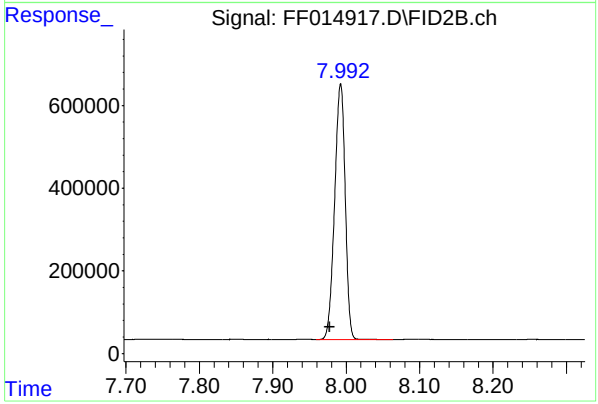
#2 Naphthalene (C11.7)

R.T.: 6.274 min
Delta R.T.: 0.015 min
Response: 6011144
Conc: 37.56 ug/ml



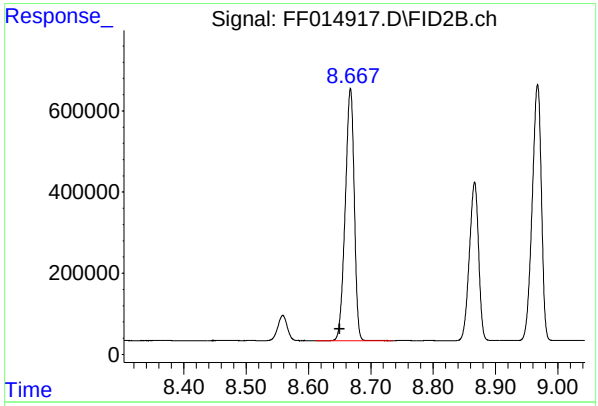
#3 2-Methylnaphthalene (C12.89)

R.T.: 7.367 min
Delta R.T.: 0.016 min
Response: 5678480
Conc: 35.10 ug/ml



#4 2-Bromonaphthalene (SURR)

R.T.: 7.992 min
Delta R.T.: 0.015 min
Response: 6199787
Conc: 44.46 ug/ml



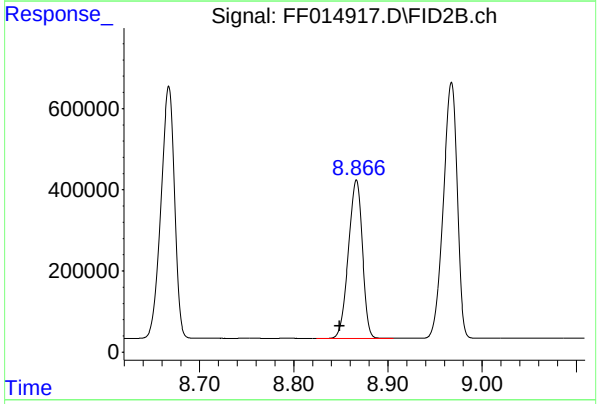
#5 Acenaphthylene (C15.06)

R.T.: 8.667 min
Delta R.T.: 0.017 min
Response: 6228835
Conc: 39.32 ug/ml

Instrument :
FID_F
ClientSampleId :
P001-CF16-01MS

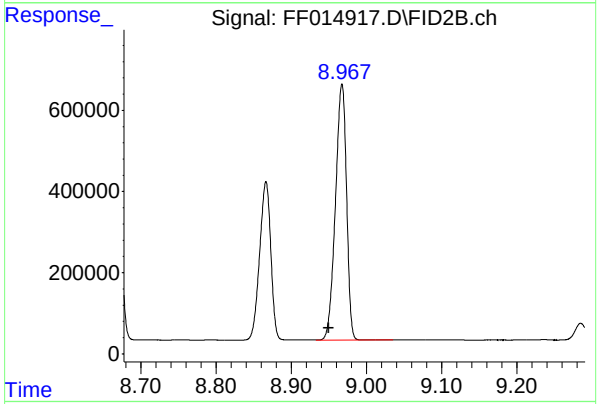
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/06/2024
Supervised By :Ankita Jodhani 11/06/2024



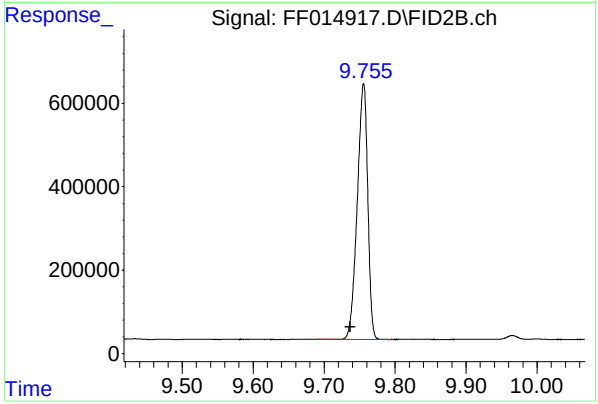
#6 2-Flurobiphenyl (SURR)

R.T.: 8.866 min
Delta R.T.: 0.018 min
Response: 4028794
Conc: 42.72 ug/ml



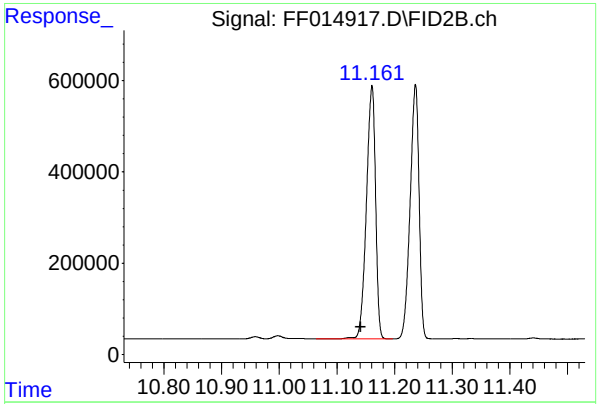
#7 Acenaphthene (C15.5)

R.T.: 8.967 min
Delta R.T.: 0.018 min
Response: 6476258
Conc: 40.82 ug/ml



#8 Flouorene (C16.55)

R.T.: 9.755 min
Delta R.T.: 0.018 min
Response: 6296699
Conc: 39.91 ug/ml



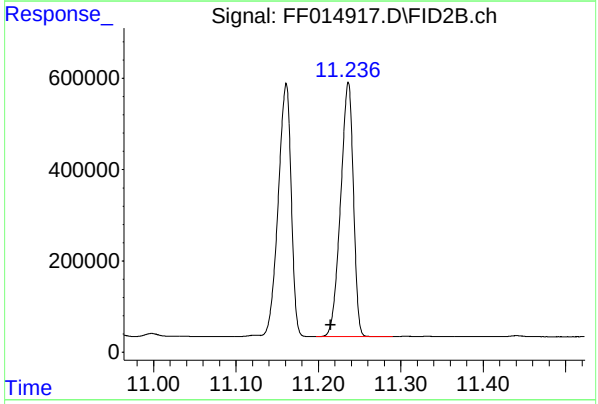
#9 Phenanthrene (C19.36)

R.T.: 11.160 min
Delta R.T.: 0.019 min
Response: 6095596
Conc: 38.72 ug/ml

Instrument :
FID_F
ClientSampleId :
P001-CF16-01MS

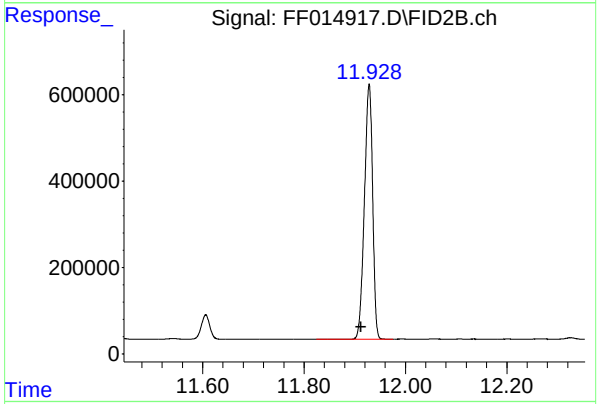
Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/06/2024
Supervised By :Ankita Jodhani 11/06/2024



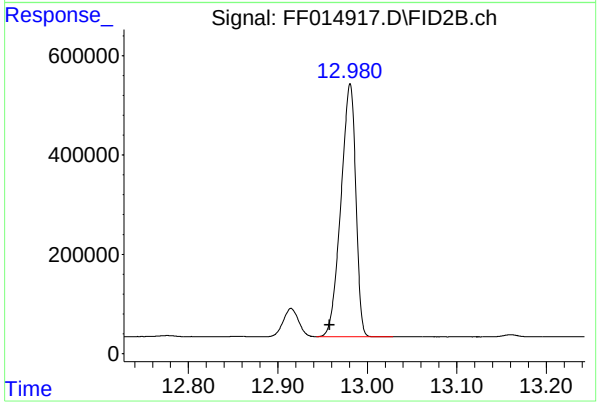
#10 Anthracene (C19.43)

R.T.: 11.236 min
Delta R.T.: 0.021 min
Response: 6000126
Conc: 39.89 ug/ml



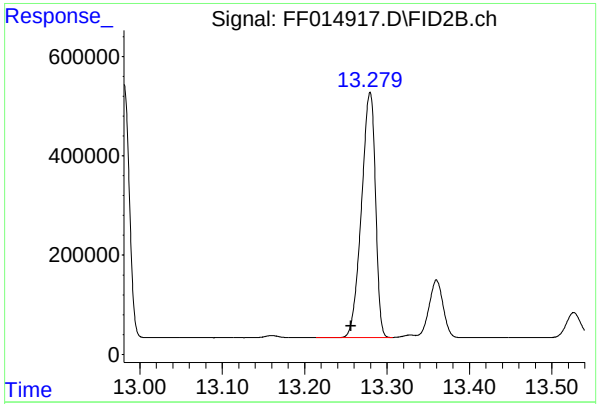
#11 ortho-Terphenyl (SURR)

R.T.: 11.928 min
Delta R.T.: 0.016 min
Response: 6646210
Conc: 41.54 ug/ml



#12 Fluoranthene (C21.85)

R.T.: 12.980 min
Delta R.T.: 0.023 min
Response: 5907329
Conc: 37.48 ug/ml



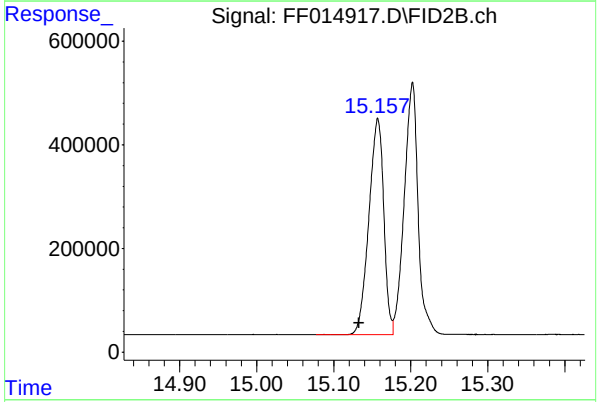
#13 Pyrene (C20.8)

R.T.: 13.279 min
Delta R.T.: 0.023 mi
Response: 5848240
Conc: 37.51 ug/m

Instrument :
FID_F
ClientSampleId :
P001-CF16-01MS

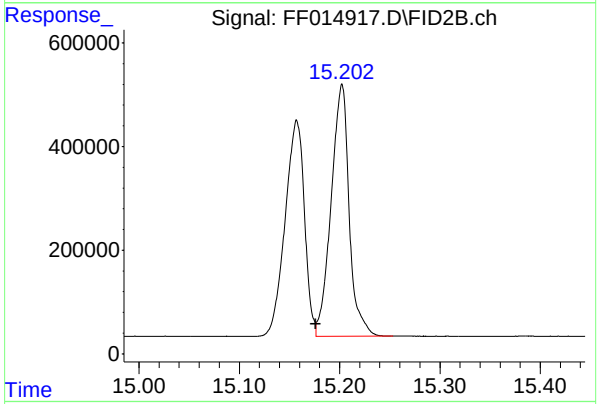
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/06/2024
Supervised By :Ankita Jodhani 11/06/2024



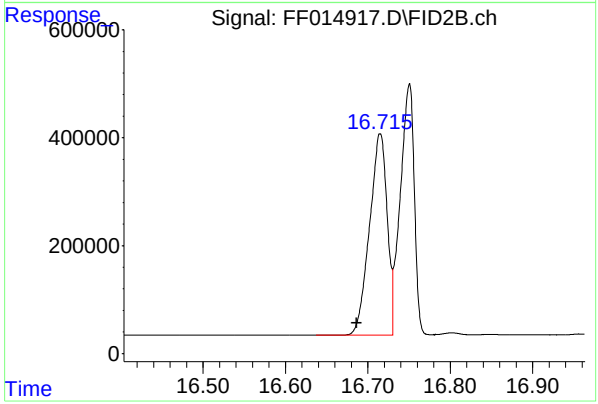
#14 Benzo[a]anthracene (C26.37)

R.T.: 15.157 min
Delta R.T.: 0.024 min
Response: 5578219
Conc: 36.71 ug/ml



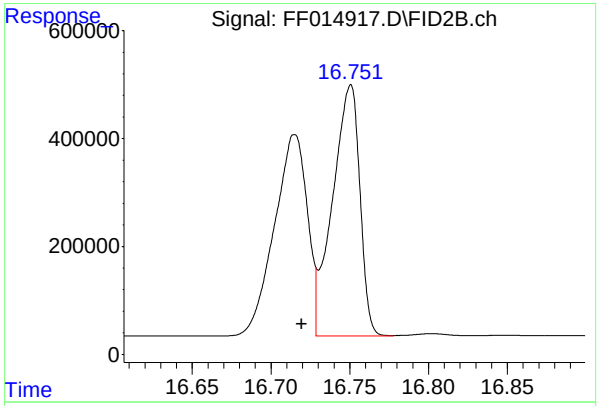
#15 Chrysene (C27.41)

R.T.: 15.202 min
Delta R.T.: 0.026 min
Response: 6067856
Conc: 39.26 ug/ml m



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

R.T.: 16.715 min
Delta R.T.: 0.028 min
Response: 5543156
Conc: 36.26 ug/ml



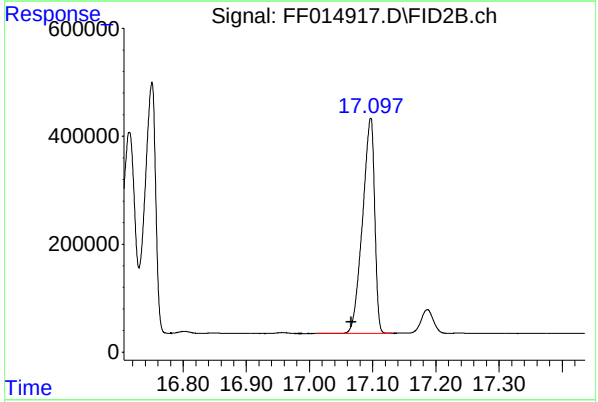
#17 Bnezo[k]fluoranthene (C30.14)

R.T.: 16.751 min
Delta R.T.: 0.031 min
Response: 5612263
Conc: 38.85 ug/ml

Instrument :
FID_F
ClientSampleId :
P001-CF16-01MS

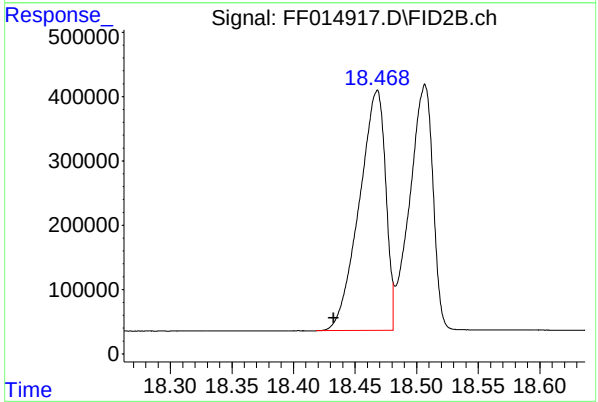
Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/06/2024
Supervised By :Ankita Jodhani 11/06/2024



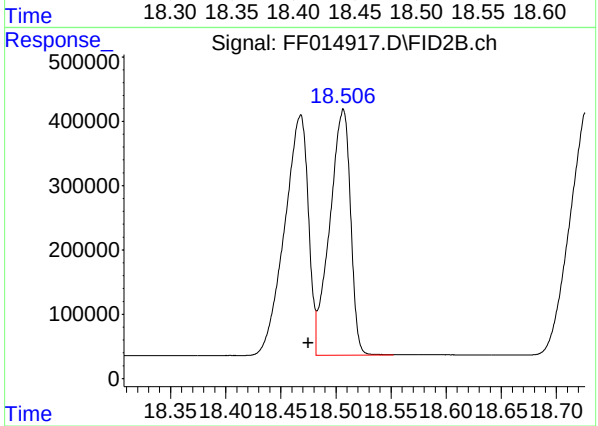
#18 Benzo[a]pyrene (C31.34)

R.T.: 17.096 min
Delta R.T.: 0.030 min
Response: 5331243
Conc: 35.72 ug/ml



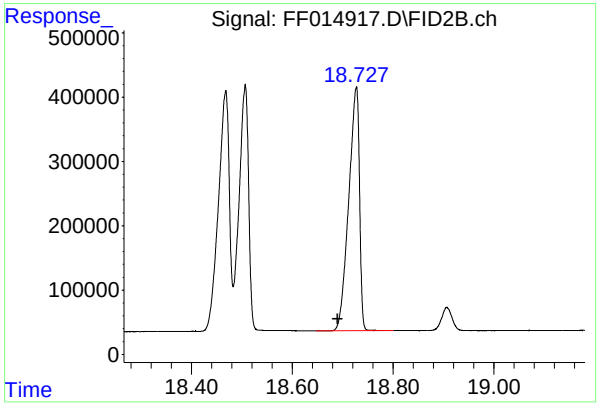
#19 Indeno[1,2,3-cd]pyrene (C35.01)

R.T.: 18.468 min
Delta R.T.: 0.036 min
Response: 5553416
Conc: 40.49 ug/ml m



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

R.T.: 18.506 min
Delta R.T.: 0.031 min
Response: 5015670
Conc: 34.53 ug/ml m



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

R.T.: 18.726 min
Delta R.T.: 0.037 mi
Response: 5600527
Conc: 39.20 ug/m

Instrument :
FID_F
ClientSampleId :
P001-CF16-01MS

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/06/2024
Supervised By :Ankita Jodhani 11/06/2024

Instrument :
FID_F
ClientSampleId :
P001-CF16-01MS

rteres

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/06/2024
Supervised By :Ankita Jodhani 11/06/2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF11042
Data File : FF014917.D
Signal(s) : FID2B.ch
Acq On : 04 Nov 2024 16:53
Sample : P4620-26MS
Misc :
ALS Vial : 72 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 102124.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	4.574	4.540	4.588	BV	63383	603799	9.08%	0.461%
2	4.610	4.588	4.669	VB	561580	5365712	80.73%	4.101%
3	4.856	4.839	4.902	VB	1698	18603	0.28%	0.014%
4	5.273	5.134	5.309	BV	4382	68912	1.04%	0.053%
5	5.509	5.439	5.545	BV	4628	49464	0.74%	0.038%
6	6.274	6.210	6.354	BV	626768	6011144	90.44%	4.594%
7	6.733	6.600	6.785	BB	64852	669818	10.08%	0.512%
8	7.210	7.154	7.227	BV	4352	49331	0.74%	0.038%
9	7.269	7.227	7.324	VV	13563	169711	2.55%	0.130%
10	7.367	7.324	7.439	VV	575240	5678480	85.44%	4.340%
11	7.503	7.439	7.517	PV	1460	15628	0.24%	0.012%
12	7.535	7.517	7.550	PV	2364	23120	0.35%	0.018%
13	7.564	7.550	7.579	VV	1779	17097	0.26%	0.013%
14	7.992	7.959	8.064	PV	619028	6199787	93.28%	4.738%
15	8.559	8.530	8.600	BB	62549	651749	9.81%	0.498%
16	8.667	8.612	8.735	BV	622146	6228835	93.72%	4.761%
17	8.866	8.824	8.905	BV	392583	4028794	60.62%	3.079%
18	8.967	8.933	9.035	VB	630938	6476258	97.44%	4.950%
19	9.285	9.255	9.345	PV	41392	450089	6.77%	0.344%
20	9.362	9.345	9.379	VV	1224	11873	0.18%	0.009%
21	9.755	9.689	9.797	BB	615655	6296699	94.74%	4.813%
22	9.965	9.869	9.987	BV	9084	103697	1.56%	0.079%
23	10.164	10.130	10.210	BB	57385	650259	9.78%	0.497%
24	10.959	10.939	10.977	BV	4797	47661	0.72%	0.036%
25	10.998	10.977	11.024	PV	6441	68431	1.03%	0.052%
26	11.160	11.064	11.197	BV	554249	6095596	91.72%	4.659%
27	11.236	11.197	11.290	VV	556882	6000126	90.28%	4.586%
28	11.441	11.359	11.484	BB	2235	30377	0.46%	0.023%
29	11.542	11.497	11.565	BV	1805	24527	0.37%	0.019%
30	11.606	11.565	11.642	VB	56664	655996	9.87%	0.501%
31	11.928	11.824	11.975	BV	592626	6646210	100.00%	5.080%
32	12.326	12.289	12.352	VV	3345	44882	0.68%	0.034%
33	12.518	12.397	12.615	BB	7904	122797	1.85%	0.094%
34	12.776	12.615	12.824	BB	2495	51928	0.78%	0.040%
35	12.915	12.882	12.943	PV	57411	684708	10.30%	0.523%
36	12.980	12.943	13.029	VB	511192	5907329	88.88%	4.515%

Instrument :
FID_F
ClientSampleId :
P001-CF16-01MS

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/06/2024
Supervised By :Ankita Jodhani 11/06/2024

rteres

37	13.160	13.064	13.205	BB	4215	46938	0.71%	0.036%
38	13.279	13.214	13.307	BV	493336	5848240	87	
39	13.360	13.307	13.429	VB	116160	1428655	21	
40	13.527	13.460	13.560	BV	50715	628200	9	
41	13.580	13.560	13.625	VB	1766	23903	0	
42	14.113	14.081	14.150	VB	48193	619763	9	
43	15.157	15.077	15.177	BV	417713	5578219	83.93%	4.263%
44	15.202	15.177	15.282	VB	487283	6077148	91.44%	4.645%
45	15.580	15.539	15.610	BV	1743	21912	0.33%	0.017%
46	16.238	16.150	16.307	BB	43287	572872	8.62%	0.438%
47	16.715	16.637	16.730	BV	373549	5543156	83.40%	4.237%
48	16.750	16.730	16.779	VV	466169	5499934	82.75%	4.204%
49	16.802	16.779	16.827	VV	3970	53161	0.80%	0.041%
50	17.096	17.010	17.132	BV	398113	5331243	80.21%	4.075%
51	17.187	17.132	17.220	VV	44120	599061	9.01%	0.458%
52	18.075	17.997	18.130	BB	37829	542172	8.16%	0.414%
53	18.467	18.294	18.484	BV	371723	5655383	85.09%	4.322%
54	18.506	18.484	18.585	VB	378927	4949896	74.48%	3.783%
55	18.726	18.647	18.800	BBA	377342	5600527	84.27%	4.280%

Sum of corrected areas: 130839809

Aromatic EPH 102124.M Tue Nov 05 02:00:05 2024

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

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	10/29/24
Project:	RFP 872	Date Received:	10/29/24
Client Sample ID:	P001-CF16-01MS	SDG No.:	P4620
Lab Sample ID:	P4620-26	Matrix:	Water
Analytical Method:	NJEPH	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :	SW3510		

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FG014647.D	1	11/03/24	11/04/24	PB164637

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C12	Aliphatic C9-C12	243		5.76	30.0	ug/l
Aliphatic C12-C16	Aliphatic C12-C16	191		3.61	20.0	ug/l
Aliphatic C16-C21	Aliphatic C16-C21	282		5.14	30.0	ug/l
Aliphatic C21-C28	Aliphatic C21-C28	347		8.97	40.0	ug/l
Aliphatic C28-C40	Aliphatic C28-C40	577		17.0	60.0	ug/l
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	53.1		40 - 140	106%	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:	P4620-26	Acq On:	04 Nov 2024 16:53
Client Sample ID:	P001-CF16-01MS	Operator:	YP\AJ
Data file:	FG014647.D	Misc:	
Instrument:	FID_G	ALS Vial:	22
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.228	6.849	16014276	121.929	300	ug/ml
Aliphatic C12-C16	6.850	10.292	13028393	95.923	200	ug/ml
Aliphatic C16-C21	10.293	13.665	19926720	141.073	300	ug/ml
Aliphatic C21-C28	13.666	17.329	24435004	173.814	400	ug/ml
Aliphatic C28-C40	17.330	22.266	30513436	288.715	600	ug/ml
Aliphatic EPH	3.228	22.266	103917829	821.454		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	13.398	13.398	6525912	53.15		ug/ml
Aliphatic C9-C28	3.228	17.329	73404393	532.739	1200	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG110424AL\
Data File : FG014647.D
Signal(s) : FID1A.ch
Acq On : 04 Nov 2024 16:53
Operator : YP\AJ
Sample : P4620-26MS
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
P001-CF16-01MS

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 11/06/2024
Supervised By :Ankita Jodhani 11/06/2024

Integration File: autoint1.e
Quant Time: Nov 05 00:37:53 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 102124.M
Quant Title : GC Extractables
QLast Update : Tue Oct 22 06:49:54 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...	13.398	6525912	53.146 ug/ml
Spiked Amount	50.000		Recovery =	106.29%
	Target Compounds			
1) T	n-Nonane (C9)	3.329	4331421	33.470 ug/ml
2) T	n-Decane (C10)	4.579	5335370	40.491 ug/mlm
4) T	n-Dodecane (C12)	6.750	6100198	45.920 ug/ml
6) T	n-Tetradecane (C14)	8.582	6301866	47.496 ug/ml
7) T	n-Hexadecane (C16)	10.193	6483637	46.657 ug/ml
8) T	n-Octadecane (C18)	11.640	6677744	46.646 ug/ml
10) T	n-Eicosane (C20)	12.953	6733619	47.883 ug/ml
11) T	n-Heneicosane (C21)	13.566	6465146	46.191 ug/ml
13) T	n-Docosane (C22)	14.153	6414413	45.598 ug/ml
14) T	n-Tetracosane (C24)	15.258	6246903	43.901 ug/ml
15) T	n-Hexacosane (C26)	16.280	5996626	42.484 ug/ml
16) T	n-Octacosane (C28)	17.231	5777062	41.800 ug/ml
17) T	n-Tricontane (C30)	18.119	5625938	40.591 ug/ml
18) T	n-Dotriacontane (C32)	18.952	5394932	41.207 ug/ml
19) T	n-Tetratriacontane (C34)	19.736	5173812	46.224 ug/ml
20) T	n-Hexatriacontane (C36)	20.474	4876970	52.398 ug/ml
21) T	n-Octatriacontane (C38)	21.226	4756727	56.934 ug/ml
22) T	n-Tetracontane (C40)	22.166	4628918	60.872 ug/ml

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

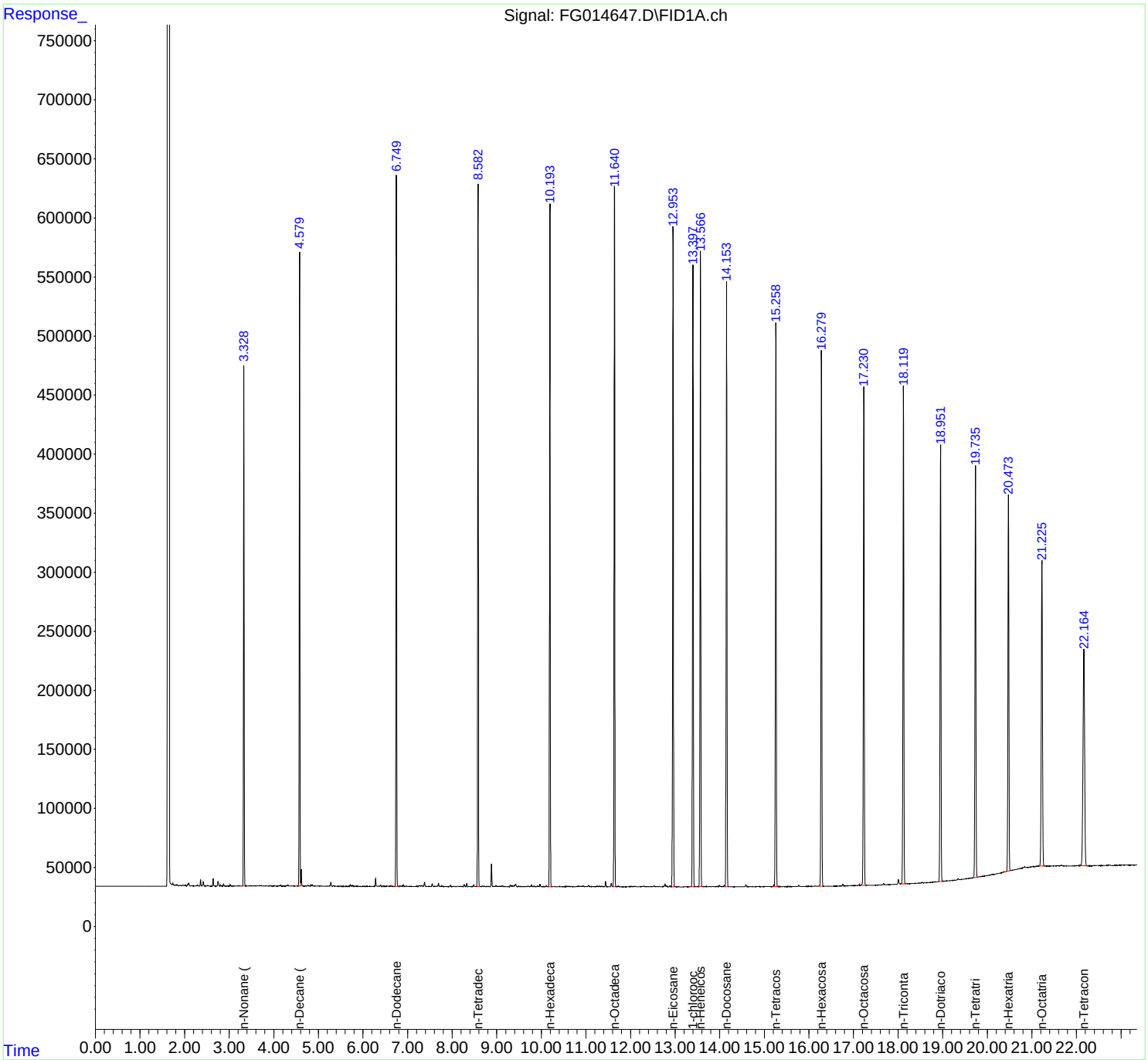
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG110424AL\
Data File : FG014647.D
Signal(s) : FID1A.ch
Acq On : 04 Nov 2024 16:53
Operator : YP\AJ
Sample : P4620-26MS
Misc :
ALS Vial : 22 Sample Multiplier: 1

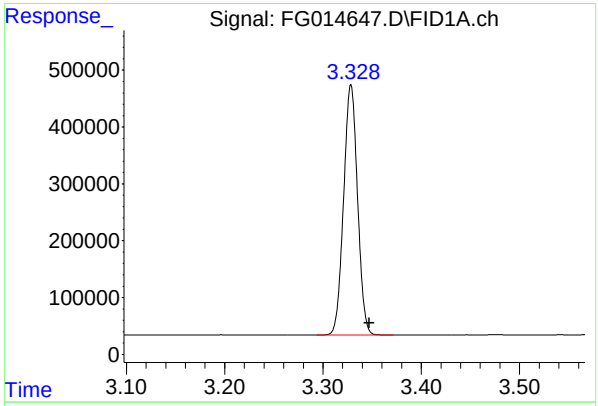
Instrument :
FID_G
ClientSampleId :
P001-CF16-01MS

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 11/06/2024
Supervised By :Ankita Jodhani 11/06/2024

Integration File: autoint1.e
Quant Time: Nov 05 00:37:53 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 102124.M
Quant Title : GC Extractables
QLast Update : Tue Oct 22 06:49:54 2024
Response via : Initial Calibration
Integrator: ChemStation

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





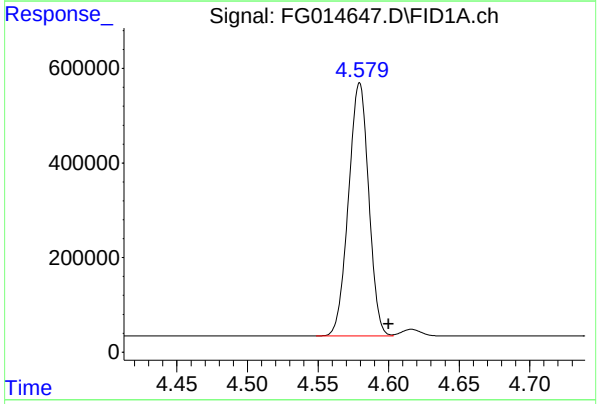
#1 n-Nonane (C9)

R.T.: 3.329 min
Delta R.T.: -0.018 min
Response: 4331421
Conc: 33.47 ug/ml

Instrument :
FID_G
ClientSampleId :
P001-CF16-01MS

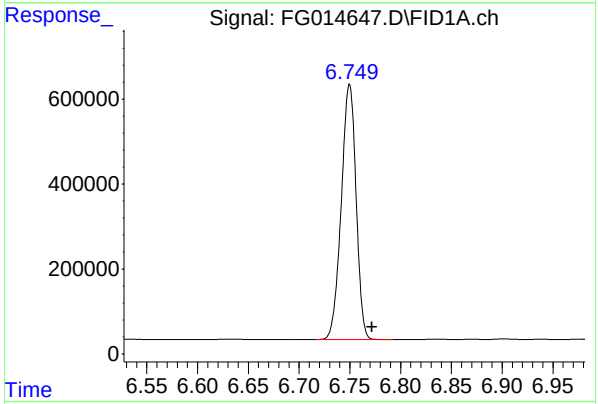
Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/06/2024
Supervised By :Ankita Jodhani 11/06/2024



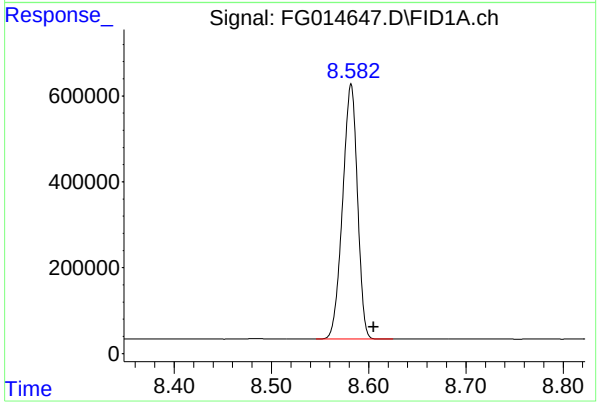
#2 n-Decane (C10)

R.T.: 4.579 min
Delta R.T.: -0.021 min
Response: 5335370
Conc: 40.49 ug/ml m



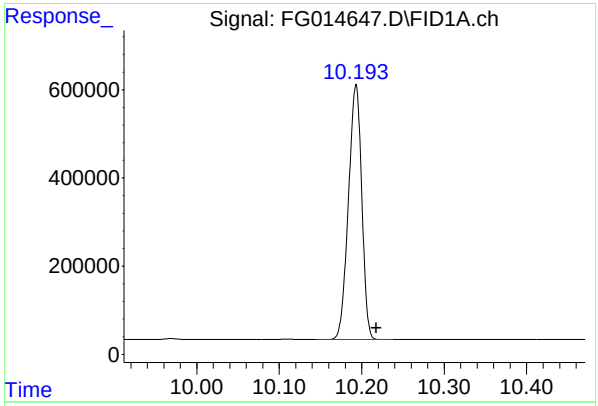
#4 n-Dodecane (C12)

R.T.: 6.750 min
Delta R.T.: -0.022 min
Response: 6100198
Conc: 45.92 ug/ml



#6 n-Tetradecane (C14)

R.T.: 8.582 min
Delta R.T.: -0.023 min
Response: 6301866
Conc: 47.50 ug/ml



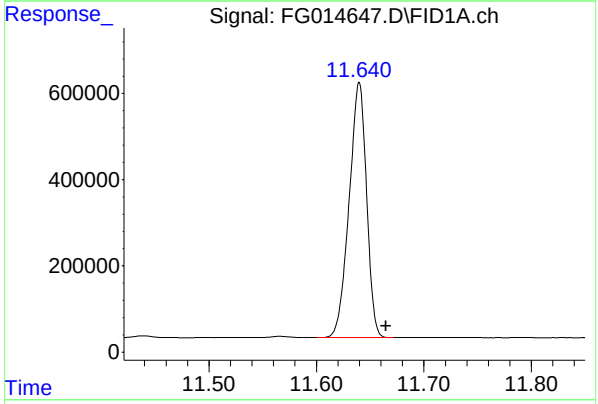
#7 n-Hexadecane (C16)

R.T.: 10.193 min
Delta R.T.: -0.024 min
Response: 6483637
Conc: 46.66 ug/ml

Instrument :
FID_G
ClientSampleId :
P001-CF16-01MS

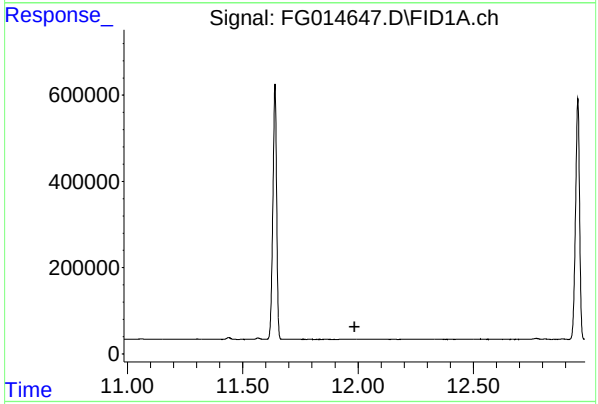
Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/06/2024
Supervised By :Ankita Jodhani 11/06/2024



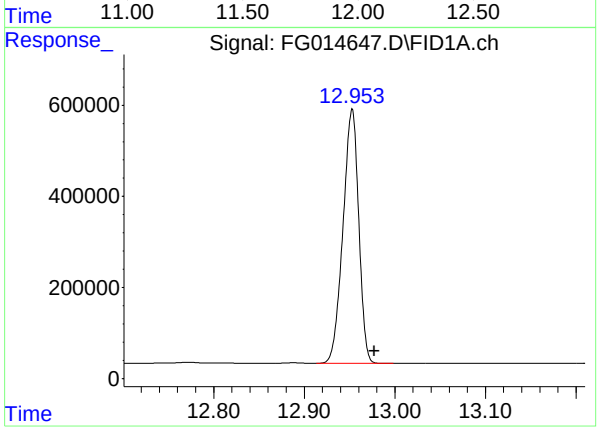
#8 n-Octadecane (C18)

R.T.: 11.640 min
Delta R.T.: -0.025 min
Response: 6677744
Conc: 46.65 ug/ml



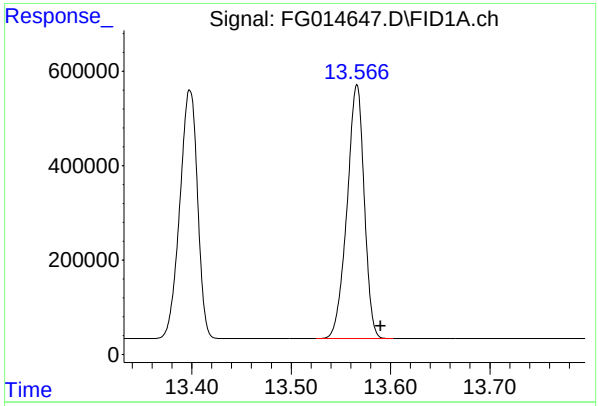
#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.984 min
Response: 0
Conc: N.D.



#10 n-Eicosane (C20)

R.T.: 12.953 min
Delta R.T.: -0.025 min
Response: 6733619
Conc: 47.88 ug/ml



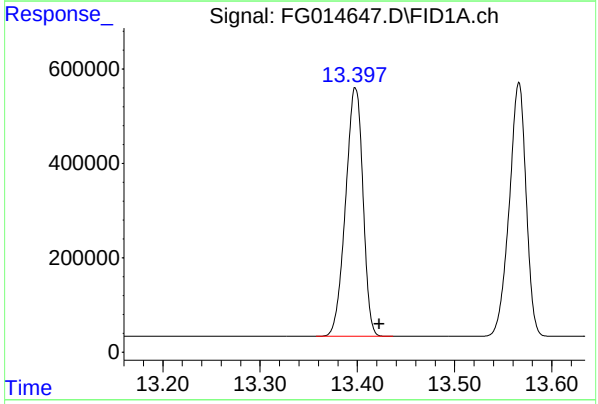
#11 n-Heneicosane (C21)

R.T.: 13.566 min
Delta R.T.: -0.024 min
Response: 6465146
Conc: 46.19 ug/ml

Instrument :
FID_G
ClientSampleId :
P001-CF16-01MS

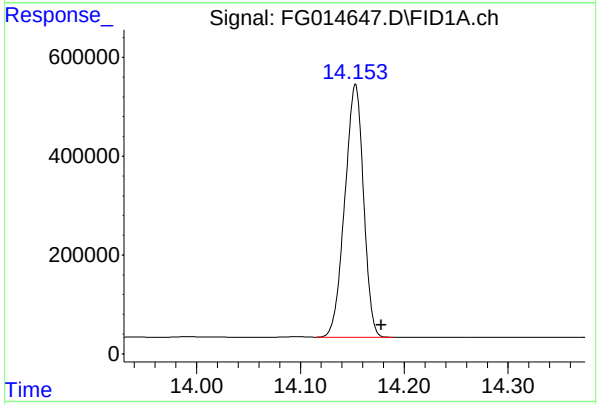
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/06/2024
Supervised By :Ankita Jodhani 11/06/2024



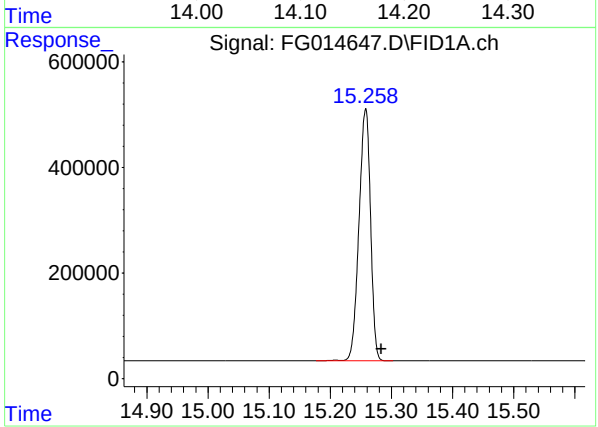
#12 1-chlorooctadecane (SURR)

R.T.: 13.398 min
Delta R.T.: -0.025 min
Response: 6525912
Conc: 53.15 ug/ml



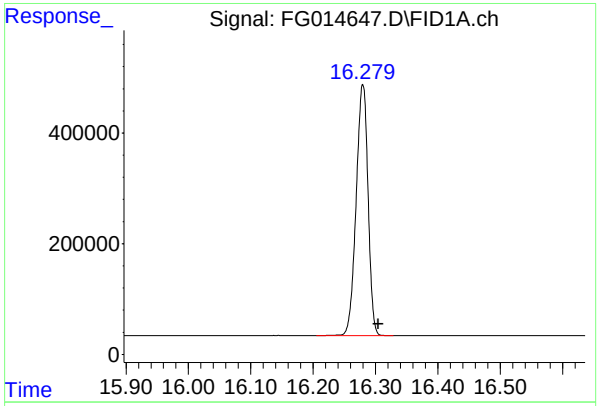
#13 n-Docosane (C22)

R.T.: 14.153 min
Delta R.T.: -0.025 min
Response: 6414413
Conc: 45.60 ug/ml



#14 n-Tetracosane (C24)

R.T.: 15.258 min
Delta R.T.: -0.025 min
Response: 6246903
Conc: 43.90 ug/ml



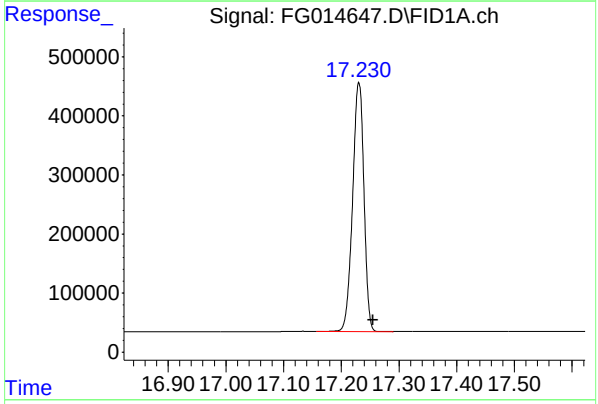
#15 n-Hexacosane (C26)

R.T.: 16.280 min
Delta R.T.: -0.024 min
Response: 5996626
Conc: 42.48 ug/ml

Instrument :
FID_G
ClientSampleId :
P001-CF16-01MS

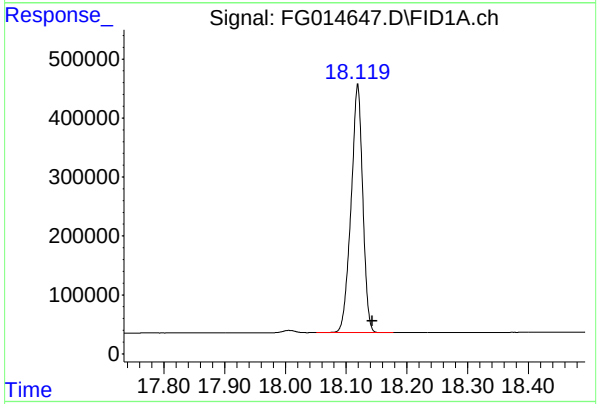
Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/06/2024
Supervised By :Ankita Jodhani 11/06/2024



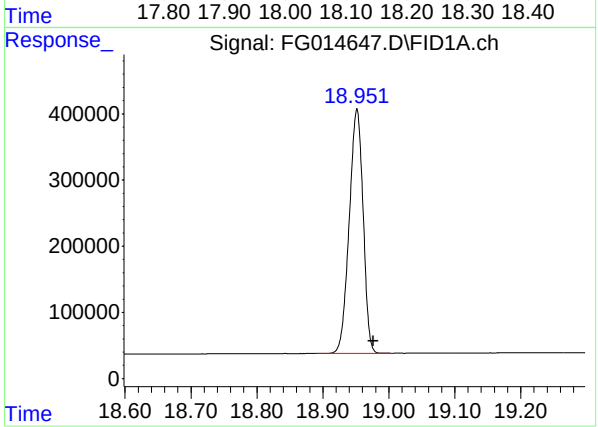
#16 n-Octacosane (C28)

R.T.: 17.231 min
Delta R.T.: -0.024 min
Response: 5777062
Conc: 41.80 ug/ml



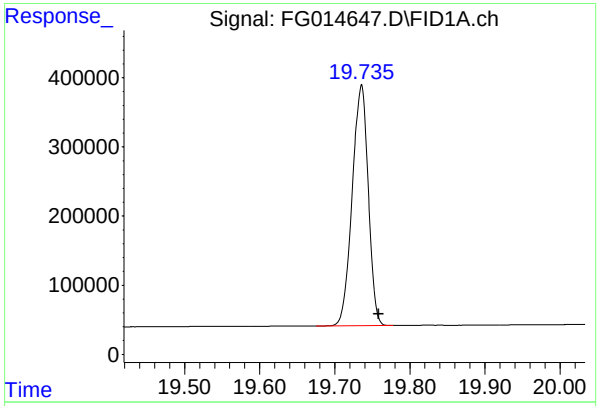
#17 n-Tricontane (C30)

R.T.: 18.119 min
Delta R.T.: -0.024 min
Response: 5625938
Conc: 40.59 ug/ml



#18 n-Dotriacontane (C32)

R.T.: 18.952 min
Delta R.T.: -0.025 min
Response: 5394932
Conc: 41.21 ug/ml



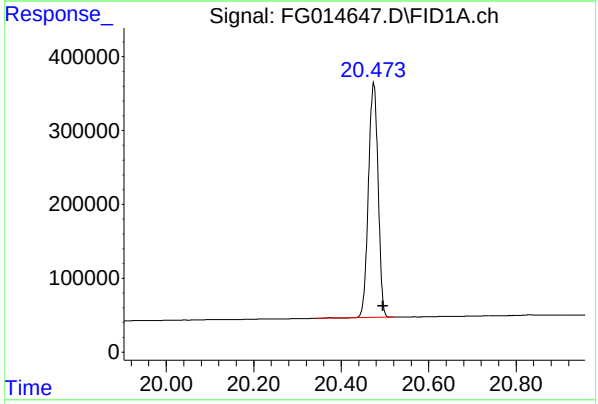
#19 n-Tetratriacontane (C34)

R.T.: 19.736 min
Delta R.T.: -0.023 min
Response: 5173812
Conc: 46.22 ug/ml

Instrument :
FID_G
ClientSampleId :
P001-CF16-01MS

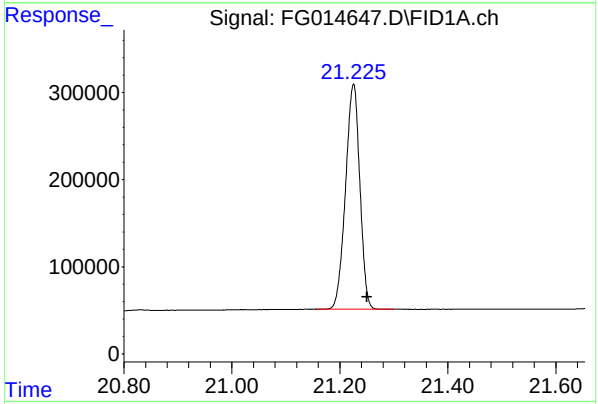
Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/06/2024
Supervised By :Ankita Jodhani 11/06/2024



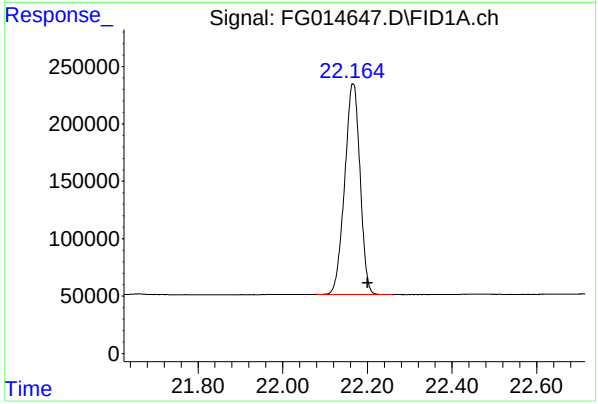
#20 n-Hexatriacontane (C36)

R.T.: 20.474 min
Delta R.T.: -0.021 min
Response: 4876970
Conc: 52.40 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 21.226 min
Delta R.T.: -0.025 min
Response: 4756727
Conc: 56.93 ug/ml



#22 n-Tetracontane (C40)

R.T.: 22.166 min
Delta R.T.: -0.035 min
Response: 4628918
Conc: 60.87 ug/ml

Instrument :
FID_G
ClientSampleId :
P001-CF16-01MS

rteres

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/06/2024
Supervised By :Ankita Jodhani 11/06/2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG11042
Data File : FG014647.D
Signal(s) : FID1A.ch
Acq On : 04 Nov 2024 16:53
Sample : P4620-26MS
Misc :
ALS Vial : 22 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 102124.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	3.329	3.293	3.372	BB	440329	4331421	64.33%	3.922%
2	4.579	4.547	4.603	BV	536159	5338073	79.27%	4.833%
3	4.616	4.603	4.641	VB	14211	135691	2.02%	0.123%
4	5.280	5.232	5.313	BB	3642	47590	0.71%	0.043%
5	6.284	6.259	6.313	BB	6391	61303	0.91%	0.056%
6	6.750	6.717	6.793	BB	602040	6100198	90.59%	5.523%
7	7.382	7.350	7.412	BB	3460	42463	0.63%	0.038%
8	8.582	8.546	8.625	BB	594535	6301866	93.59%	5.706%
9	8.883	8.855	8.911	BB	19402	200427	2.98%	0.181%
10	10.193	10.145	10.238	BB	579091	6483637	96.29%	5.871%
11	11.439	11.408	11.471	BB	4417	50211	0.75%	0.045%
12	11.640	11.600	11.672	BB	593056	6677744	99.17%	6.046%
13	12.953	12.913	12.998	BB	558370	6733619	100.00%	6.097%
14	13.398	13.358	13.437	BB	525274	6525912	96.92%	5.909%
15	13.566	13.525	13.603	BB	538048	6465146	96.01%	5.854%
16	14.153	14.115	14.189	VB	512668	6414413	95.26%	5.808%
17	15.258	15.177	15.303	BB	478337	6246903	92.77%	5.656%
18	16.280	16.205	16.328	BB	452949	5996626	89.06%	5.430%
19	17.231	17.157	17.290	BB	421380	5777062	85.79%	5.231%
20	18.006	17.967	18.038	BB	3924	56139	0.83%	0.051%
21	18.119	18.051	18.178	BB	422323	5625938	83.55%	5.094%
22	18.952	18.890	19.007	BB	370054	5394932	80.12%	4.885%
23	19.736	19.675	19.778	BB	349063	5173812	76.84%	4.685%
24	20.474	20.343	20.518	BB	317683	4876970	72.43%	4.416%
25	21.226	21.156	21.298	BB	258962	4756727	70.64%	4.307%
26	22.166	22.079	22.260	BB	183385	4628918	68.74%	4.191%

Sum of corrected areas: 110443740

Aliphatic EPH 102124.M Tue Nov 05 01:19:46 2024

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

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	10/29/24
Project:	RFP 872	Date Received:	10/29/24
Client Sample ID:	P001-CF16-01MSD	SDG No.:	P4620
Lab Sample ID:	P4620-24	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	95.8
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
FC067617.D	1	11/03/24	11/05/24	PB164618

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C12	Aliphatic C9-C12	6.73		0.40	1.04	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16	6.05		0.25	0.70	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21	9.56		0.31	1.04	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28	12.8		0.83	1.39	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	22.1		1.88	2.08	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	41.6		40 - 140	83%	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:	P4620-24	Acq On:	05 Nov 2024 00:32
Client Sample ID:	P001-CF16-01MSD	Operator:	YP/AJ
Data file:	FC067617.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	3.171	6.449	13127406	96.903	300	ug/ml
Aliphatic C12-C16	6.450	9.838	11467364	87.084	200	ug/ml
Aliphatic C16-C21	9.839	13.196	17520614	137.703	300	ug/ml
Aliphatic C21-C28	13.197	16.847	22155605	184.491	400	ug/ml
Aliphatic C28-C40	16.848	21.685	32225325	318.768	600	ug/ml
Aliphatic EPH	3.171	21.685	96496314	824.949		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	12.929	12.929	4492450	41.6		ug/ml
Aliphatic C9-C28	3.171	16.847	64270989	506.181	1200	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC110424AL\
Data File : FC067617.D
Signal(s) : FID1A.ch
Acq On : 05 Nov 2024 00:32
Operator : YP/AJ
Sample : P4620-24
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
P001-CF16-01MSD

Integration File: autoint1.e
Quant Time: Nov 05 03:46:04 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...	12.929	4492450	41.601 ug/ml
Spiked Amount	50.000		Recovery =	83.20%
	Target Compounds			
1) T	n-Nonane (C9)	3.271	3482088	25.847 ug/ml
2) T	n-Decane (C10)	4.336	4357345	31.981 ug/ml
4) T	n-Dodecane (C12)	6.351	5241040	38.696 ug/ml
6) T	n-Tetradecane (C14)	8.143	5624067	42.847 ug/ml
7) T	n-Hexadecane (C16)	9.741	5778991	43.746 ug/ml
8) T	n-Octadecane (C18)	11.180	5906121	44.705 ug/ml
10) T	n-Eicosane (C20)	12.487	5907920	46.822 ug/ml
11) T	n-Heneicosane (C21)	13.098	5667587	45.923 ug/ml
13) T	n-Docosane (C22)	13.683	5632191	45.996 ug/ml
14) T	n-Tetracosane (C24)	14.784	5560463	45.875 ug/ml
15) T	n-Hexacosane (C26)	15.803	5478440	46.016 ug/ml
16) T	n-Octacosane (C28)	16.751	5440084	46.241 ug/ml
17) T	n-Tricontane (C30)	17.636	5465538	45.218 ug/ml
18) T	n-Dotriacontane (C32)	18.468	5415261	45.768 ug/ml
19) T	n-Tetratriacontane (C34)	19.251	5419523	51.749 ug/ml
20) T	n-Hexatriacontane (C36)	19.988	5261976	57.807 ug/ml
21) T	n-Octatriacontane (C38)	20.708	5226240	60.348 ug/ml
22) T	n-Tetracontane (C40)	21.592	5156151	60.653 ug/ml

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

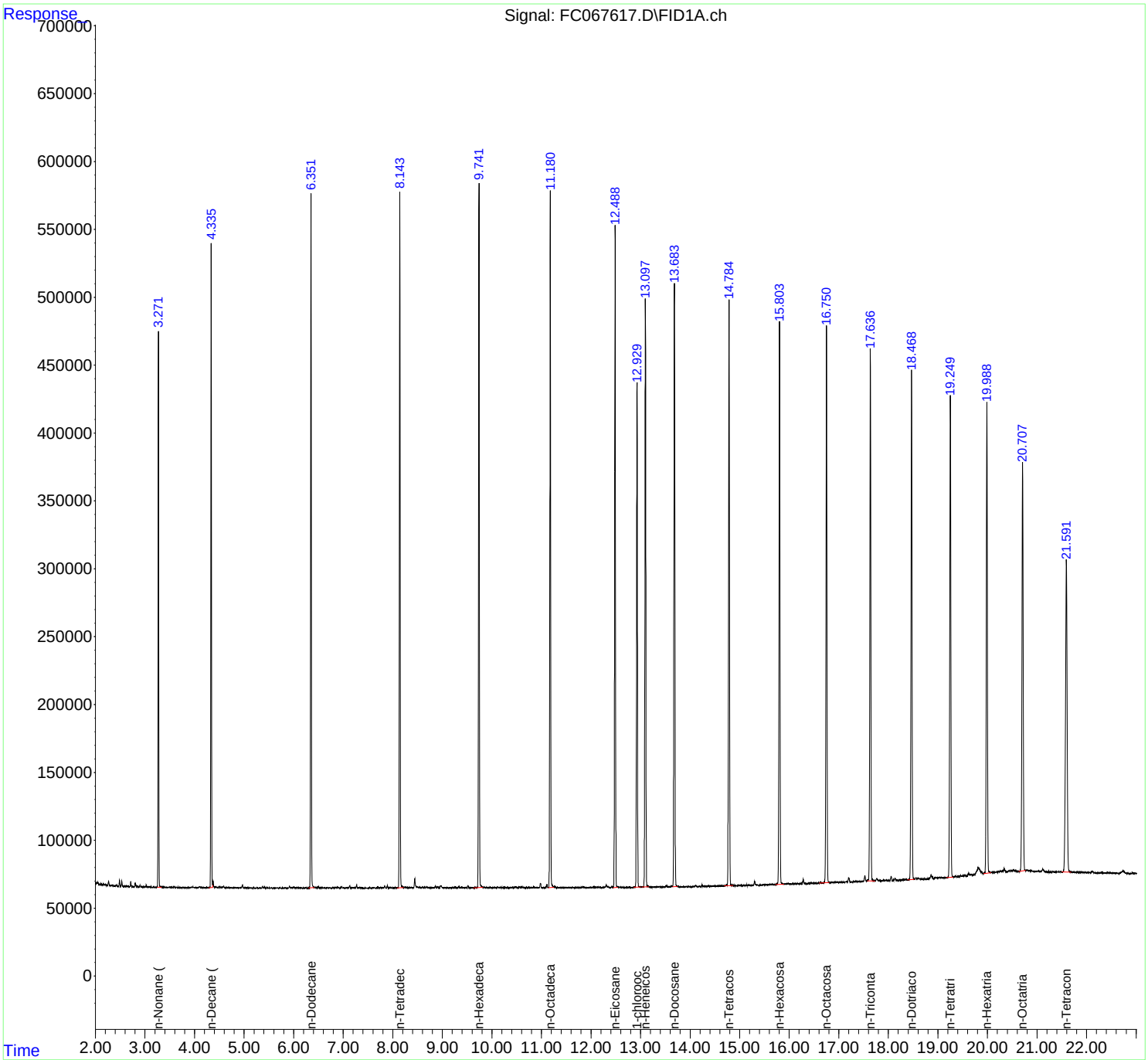
Quantitation Report (QT Reviewed)

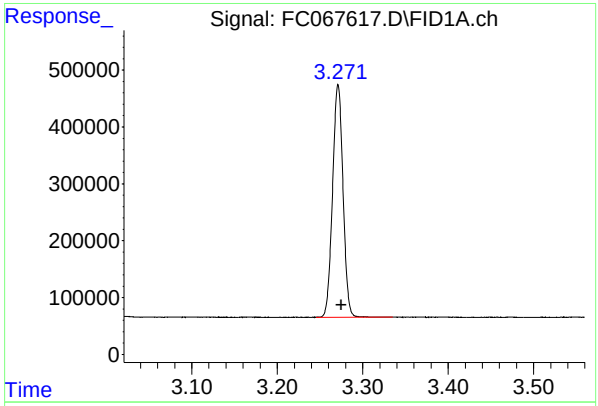
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC110424AL\
Data File : FC067617.D
Signal(s) : FID1A.ch
Acq On : 05 Nov 2024 00:32
Operator : YP/AJ
Sample : P4620-24
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
P001-CF16-01MSD

Integration File: autoint1.e
Quant Time: Nov 05 03:46:04 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

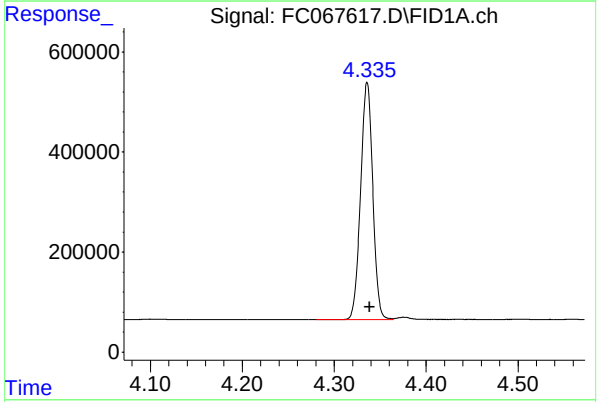




#1 n-Nonane (C9)

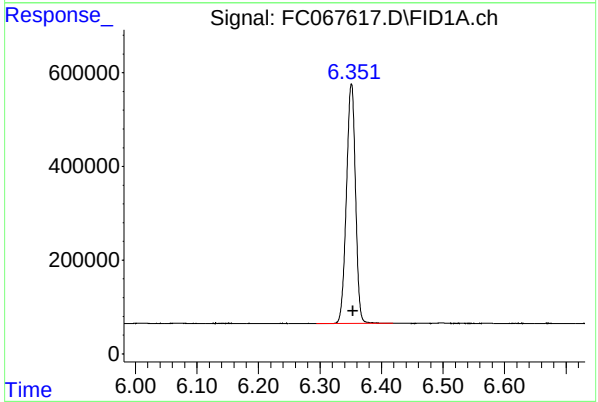
R.T.: 3.271 min
Delta R.T.: -0.004 min
Response: 3482088
Conc: 25.85 ug/ml

Instrument :
FID_C
ClientSampleId :
P001-CF16-01MSD



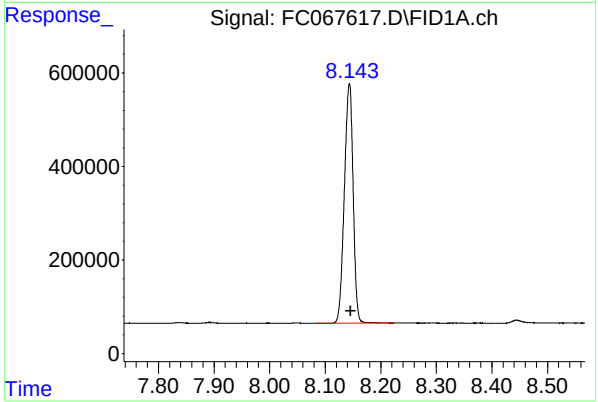
#2 n-Decane (C10)

R.T.: 4.336 min
Delta R.T.: -0.003 min
Response: 4357345
Conc: 31.98 ug/ml



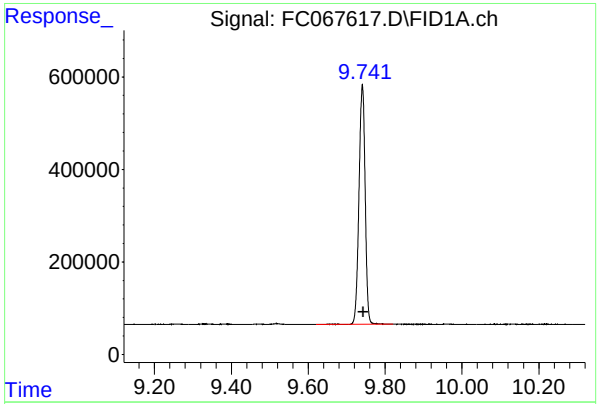
#4 n-Dodecane (C12)

R.T.: 6.351 min
Delta R.T.: -0.003 min
Response: 5241040
Conc: 38.70 ug/ml



#6 n-Tetradecane (C14)

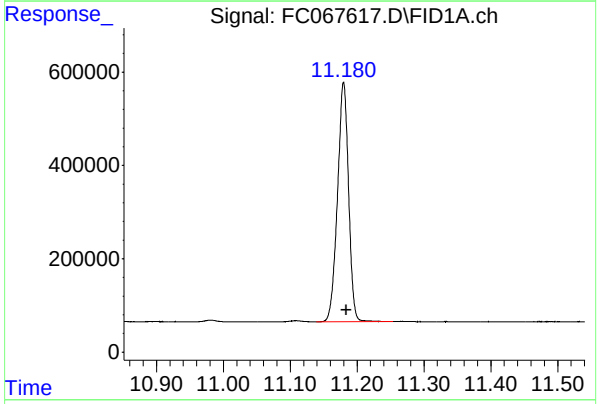
R.T.: 8.143 min
Delta R.T.: -0.003 min
Response: 5624067
Conc: 42.85 ug/ml



#7 n-Hexadecane (C16)

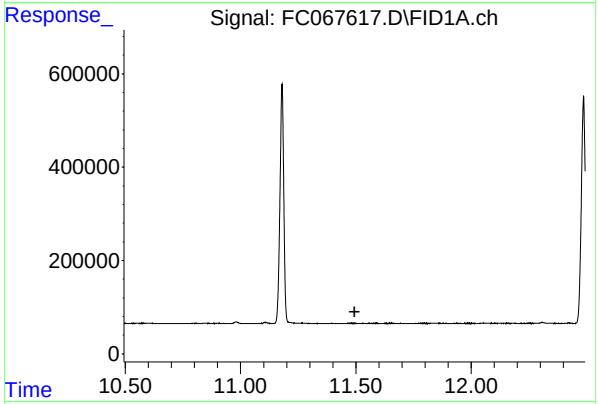
R.T.: 9.741 min
Delta R.T.: -0.003 min
Response: 5778991
Conc: 43.75 ug/ml

Instrument :
FID_C
ClientSampleId :
P001-CF16-01MSD



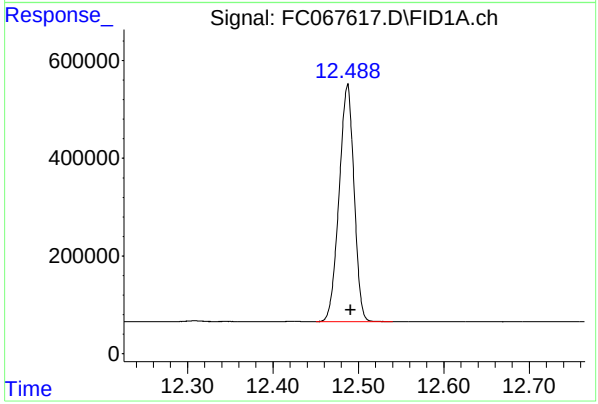
#8 n-Octadecane (C18)

R.T.: 11.180 min
Delta R.T.: -0.004 min
Response: 5906121
Conc: 44.71 ug/ml



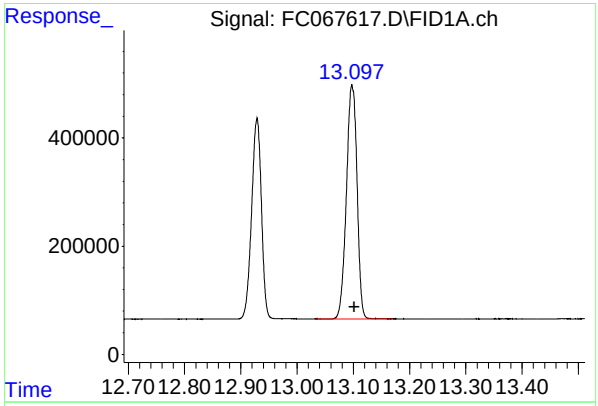
#9 ortho-Terphenyl (SURR)

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



#10 n-Eicosane (C20)

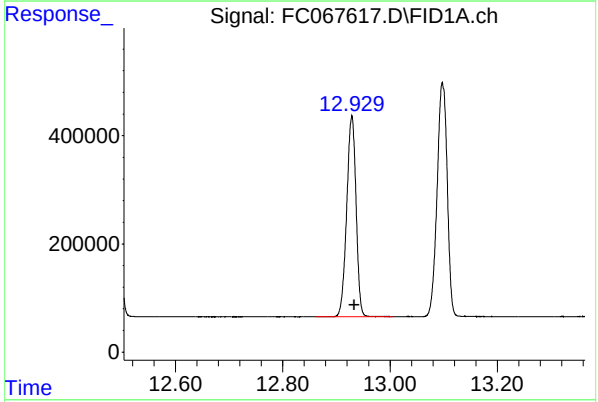
R.T.: 12.487 min
Delta R.T.: -0.004 min
Response: 5907920
Conc: 46.82 ug/ml



#11 n-Heneicosane (C21)

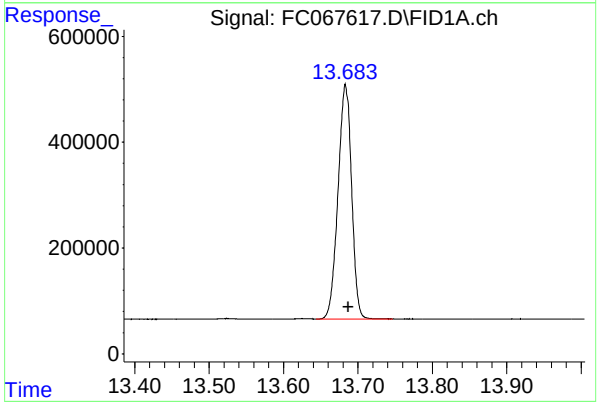
R.T.: 13.098 min
Delta R.T.: -0.004 min
Response: 5667587
Conc: 45.92 ug/ml

Instrument :
FID_C
ClientSampleId :
P001-CF16-01MSD



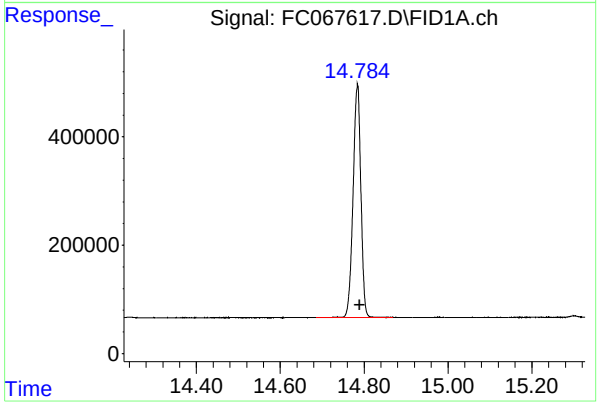
#12 1-chlorooctadecane (SURR)

R.T.: 12.929 min
Delta R.T.: -0.004 min
Response: 4492450
Conc: 41.60 ug/ml



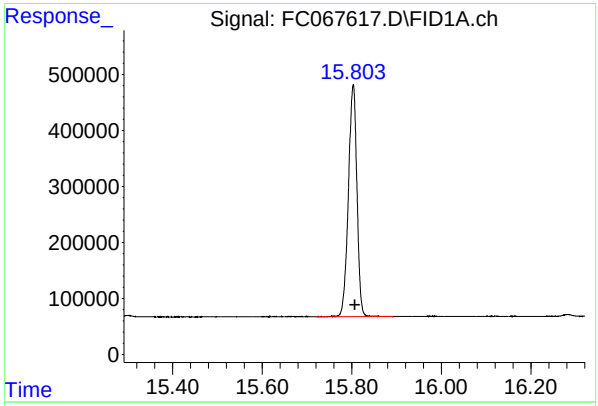
#13 n-Docosane (C22)

R.T.: 13.683 min
Delta R.T.: -0.004 min
Response: 5632191
Conc: 46.00 ug/ml



#14 n-Tetracosane (C24)

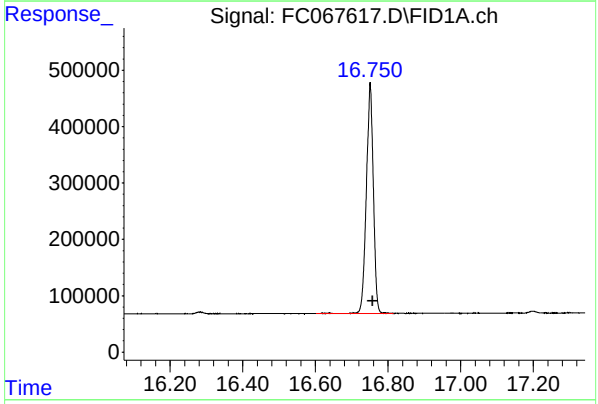
R.T.: 14.784 min
Delta R.T.: -0.005 min
Response: 5560463
Conc: 45.87 ug/ml



#15 n-Hexacosane (C26)

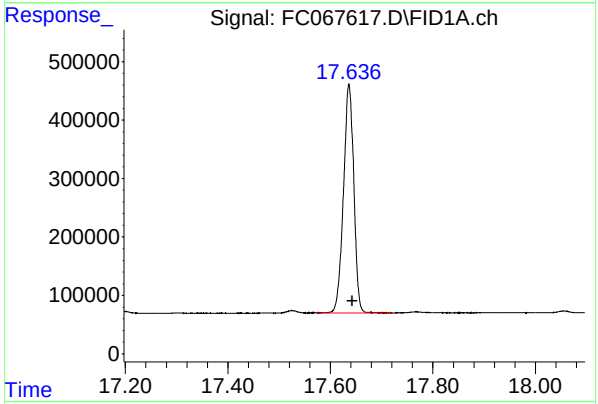
R.T.: 15.803 min
Delta R.T.: -0.005 min
Response: 5478440
Conc: 46.02 ug/ml

Instrument :
FID_C
ClientSampleId :
P001-CF16-01MSD



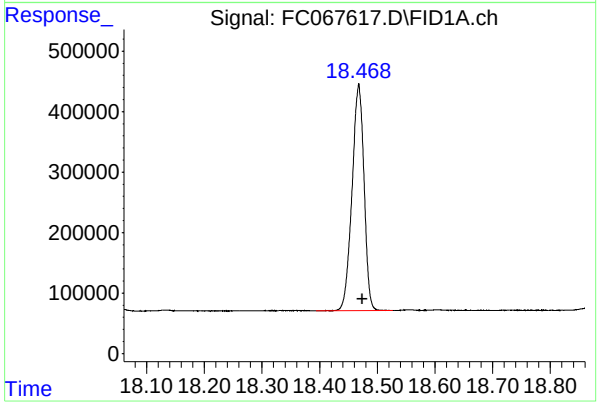
#16 n-Octacosane (C28)

R.T.: 16.751 min
Delta R.T.: -0.007 min
Response: 5440084
Conc: 46.24 ug/ml



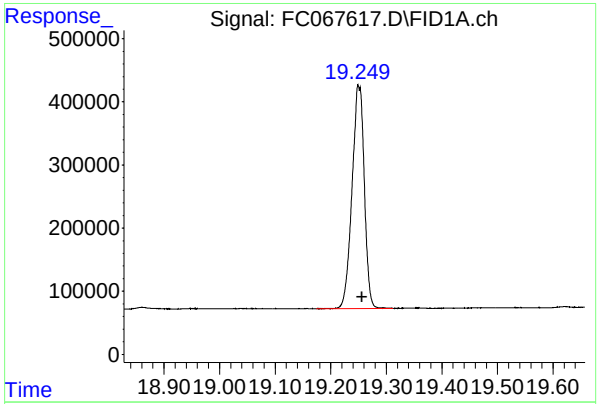
#17 n-Tricontane (C30)

R.T.: 17.636 min
Delta R.T.: -0.006 min
Response: 5465538
Conc: 45.22 ug/ml



#18 n-Dotriacontane (C32)

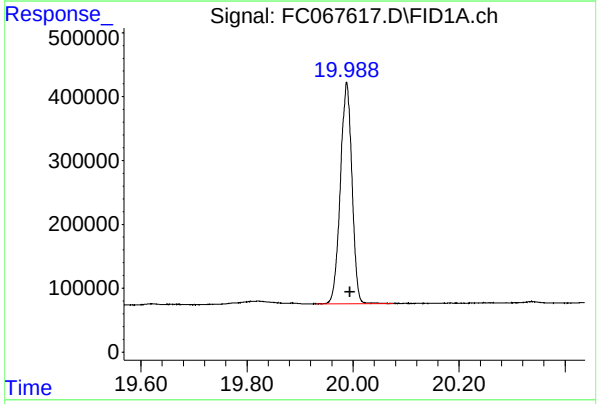
R.T.: 18.468 min
Delta R.T.: -0.006 min
Response: 5415261
Conc: 45.77 ug/ml



#19 n-Tetratriacontane (C34)

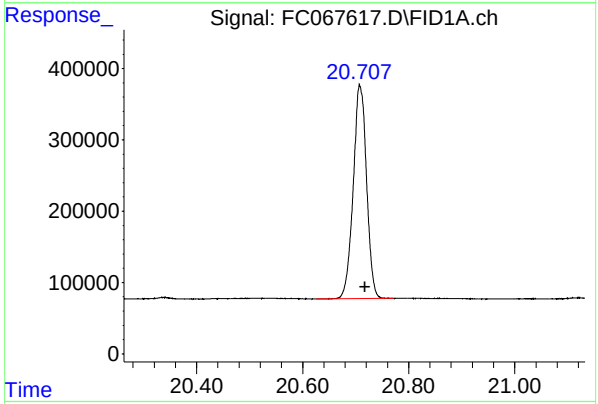
R.T.: 19.251 min
Delta R.T.: -0.006 min
Response: 5419523
Conc: 51.75 ug/ml

Instrument :
FID_C
ClientSampleId :
P001-CF16-01MSD



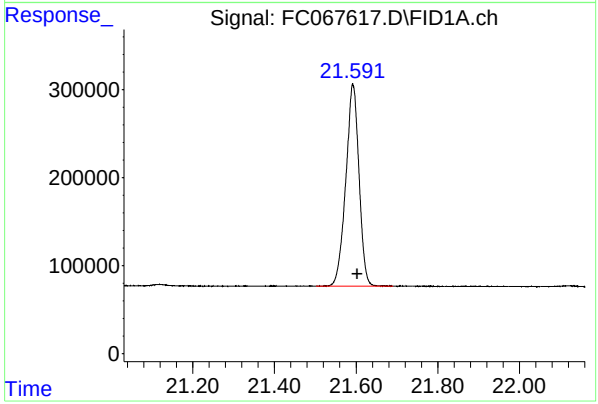
#20 n-Hexatriacontane (C36)

R.T.: 19.988 min
Delta R.T.: -0.006 min
Response: 5261976
Conc: 57.81 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 20.708 min
Delta R.T.: -0.010 min
Response: 5226240
Conc: 60.35 ug/ml



#22 n-Tetracontane (C40)

R.T.: 21.592 min
Delta R.T.: -0.011 min
Response: 5156151
Conc: 60.65 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC110424AL\
Data File : FC067617.D
Signal(s) : FID1A.ch
Acq On : 05 Nov 2024 00:32
Sample : P4620-24
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	3.271	3.245	3.335	BB	409586	3482088	58.94%	3.448%
2	4.336	4.280	4.364	BV	474962	4357345	73.75%	4.315%
3	4.376	4.364	4.414	VB	4619	46933	0.79%	0.046%
4	6.351	6.294	6.419	BV	511404	5241040	88.71%	5.190%
5	8.143	8.084	8.222	BV	513580	5624067	95.20%	5.569%
6	8.445	8.340	8.497	BB	6288	64306	1.09%	0.064%
7	9.741	9.620	9.820	BB	517681	5778991	97.82%	5.722%
8	10.981	10.932	11.019	BB	3523	38986	0.66%	0.039%
9	11.180	11.139	11.254	PV	513994	5906121	99.97%	5.848%
10	12.487	12.450	12.540	PB	484419	5907920	100.00%	5.850%
11	12.929	12.862	13.005	BB	370494	4492450	76.04%	4.448%
12	13.098	13.034	13.170	BB	428440	5667587	95.93%	5.612%
13	13.683	13.644	13.747	PB	441902	5632191	95.33%	5.577%
14	14.784	14.685	14.869	BB	428097	5560463	94.12%	5.506%
15	15.803	15.720	15.892	BB	415722	5478440	92.73%	5.425%
16	16.282	16.257	16.312	BB	3298	44427	0.75%	0.044%
17	16.751	16.602	16.814	BB	406982	5440084	92.08%	5.387%
18	17.525	17.464	17.555	BB	3980	52977	0.90%	0.052%
19	17.636	17.572	17.722	BB	391389	5465538	92.51%	5.412%
20	18.468	18.394	18.527	BV	372463	5415261	91.66%	5.362%
21	19.251	19.174	19.312	BB	350370	5419523	91.73%	5.366%
22	19.821	19.644	19.910	VB	4765	227659	3.85%	0.225%
23	19.988	19.930	20.075	BB	345945	5261976	89.07%	5.210%
24	20.708	20.625	20.770	BB	297087	5226240	88.46%	5.175%
25	21.592	21.502	21.690	BB	229498	5156151	87.28%	5.106%

Sum of corrected areas: 100988764

Aliphatic EPH 102324.M Tue Nov 05 05:29:27 2024

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

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	10/29/24
Project:	RFP 872	Date Received:	10/29/24
Client Sample ID:	P001-CF16-01MSD	SDG No.:	P4620
Lab Sample ID:	P4620-24	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	95.8
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
FD048654.D	1	11/03/24	11/05/24	PB164618

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	3.97		0.31	0.70	mg/kg
Aromatic C12-C16	Aromatic C12-C16	8.24		0.35	1.04	mg/kg
Aromatic C16-C21	Aromatic C16-C21	15.4		1.00	1.74	mg/kg
Aromatic C21-C36	Aromatic C21-C36	25.1		2.08	2.78	mg/kg
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	47.2		40 - 140	94%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	47.9		40 - 140	96%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	32.7		40 - 140	65%	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:	P4620-24	Acq On:	05 Nov 2024 00:32
Client Sample ID:	P001-CF16-01MSD	Operator:	YP/AJ
Data file:	FD048654.D	Misc:	
Instrument:	FID_D	ALS Vial:	69
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.093	5.811	10064333	57.118	200	ug/ml
Aromatic C12-C16	5.812	8.416	21045131	118.716	300	ug/ml
Aromatic C16-C21	8.417	12.676	36437455	222.407	500	ug/ml
Aromatic C21-C36	12.677	18.080	55089905	360.741	800	ug/ml
Aromatic EPH	4.093	18.080	122636824	758.981		ug/ml
2-Bromonaphthalene (SURR)	7.370	7.370	7167162	47.22		ug/ml
2-Flurobiphenyl (SURR)	8.220	8.220	4705355	47.92		ug/ml
ortho-Terphenyl (SURR)	11.254	11.254	5568802	32.69		ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD110424AR\
Data File : FD048654.D
Signal(s) : FID2B.ch
Acq On : 05 Nov 2024 00:32
Operator : YP/AJ
Sample : P4620-24
Misc :
ALS Vial : 69 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
P001-CF16-01MSD

Integration File: autoint1.e
Quant Time: Nov 05 02:09:22 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	7167162	47.221 ug/ml
Spiked Amount	50.000		Recovery =	94.44%
6) S	2-Flurobiphenyl (SURR)	8.220	4705355	47.920 ug/ml
Spiked Amount	50.000 Range	0 - 131	Recovery =	95.84%
11) S	ortho-Terphenyl (SURR)	11.254	5568802	32.692 ug/ml
Spiked Amount	50.000		Recovery =	65.38%
	Target Compounds			
1) T	1,2,3-Trimethylbenzen...	4.192	5227343	30.047 ug/mlm
2) T	Naphthalene (C11.7)	5.710	6027335	33.779 ug/ml
3) T	2-Methylnaphthalene (...	6.757	5925001	33.125 ug/ml
5) T	Acenaphthylene (C15.06)	8.023	6707847	38.201 ug/ml
7) T	Acenaphthene (C15.5)	8.318	7054056	39.772 ug/ml
8) T	Flouorene (C16.55)	9.096	6856831	40.564 ug/ml
9) T	Phenanthrene (C19.36)	10.483	6699548	40.528 ug/ml
10) T	Anthracene (C19.43)	10.559	6716584	42.002 ug/ml
12) T	Fluoranthene (C21.85)	12.287	6806407	41.357 ug/mlm
13) T	Pyrene (C20.8)	12.580	6620954	41.104 ug/ml
14) T	Benzo[a]anthracene (C...	14.450	6265489	42.851 ug/mlm
15) T	Chrysene (C27.41)	14.493	6352768	38.620 ug/ml
16) T	benzo[b]fluoranthene ...	15.997	6284499	41.337 ug/ml
17) T	Bnezo[k]fluoranthene ...	16.031	6326883	42.094 ug/ml
18) T	Benzo[a]pyrene (C31.34)	16.374	6123150	40.687 ug/ml
19) T	Indeno[1,2,3-cd]pyren...	17.741	6512633	49.914 ug/ml
20) T	Dibenz[a,h]anthracene...	17.778	6231842	38.294 ug/ml
21) T	Benzo[g,h,i]perylene ...	17.992	6243586	40.783 ug/ml

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

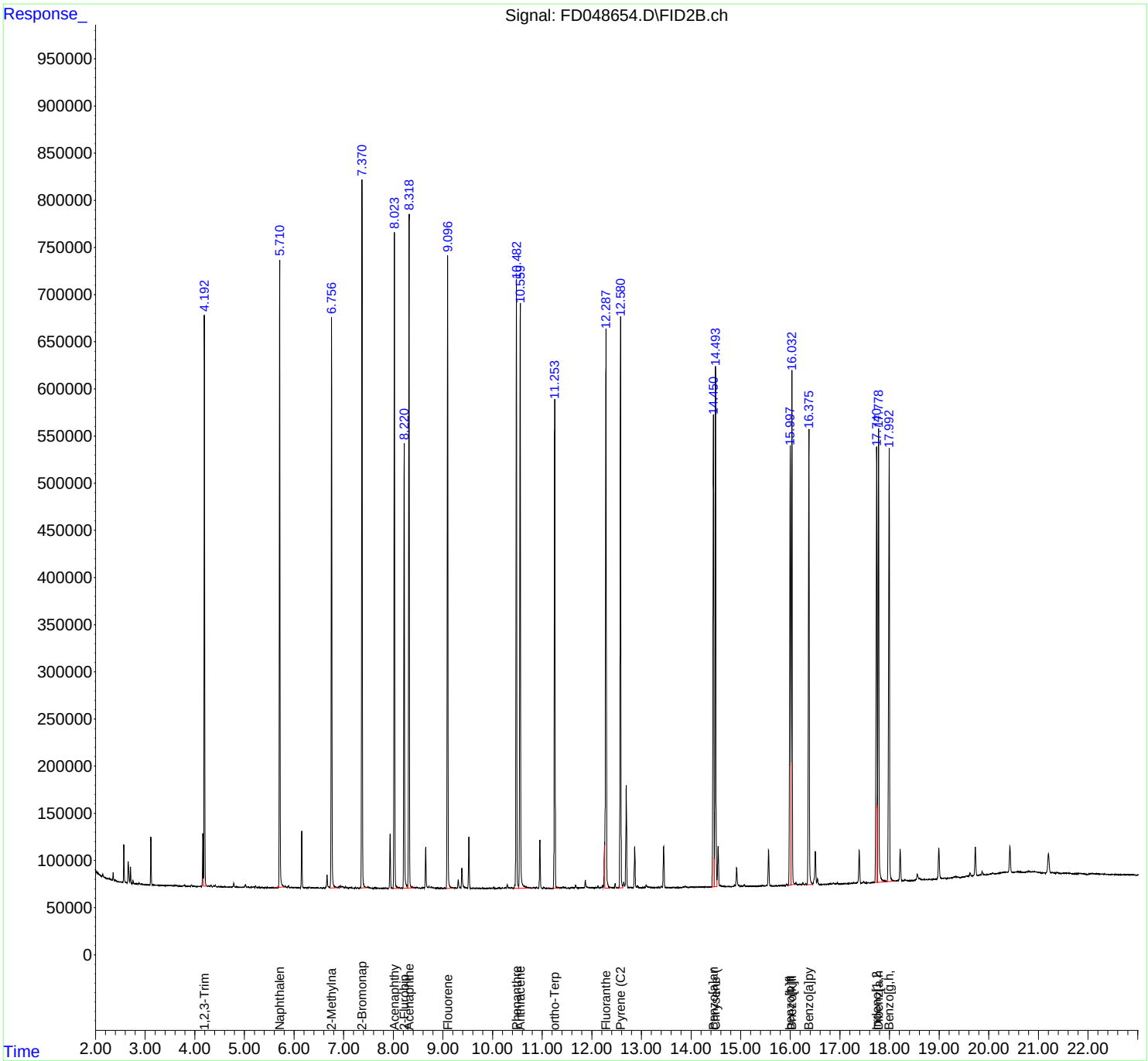
Quantitation Report (QT Reviewed)

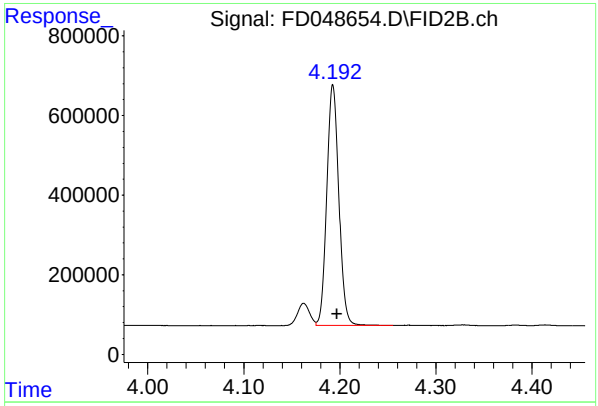
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD110424AR\
Data File : FD048654.D
Signal(s) : FID2B.ch
Acq On : 05 Nov 2024 00:32
Operator : YP/AJ
Sample : P4620-24
Misc :
ALS Vial : 69 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
P001-CF16-01MSD

Integration File: autoint1.e
Quant Time: Nov 05 02:09:22 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

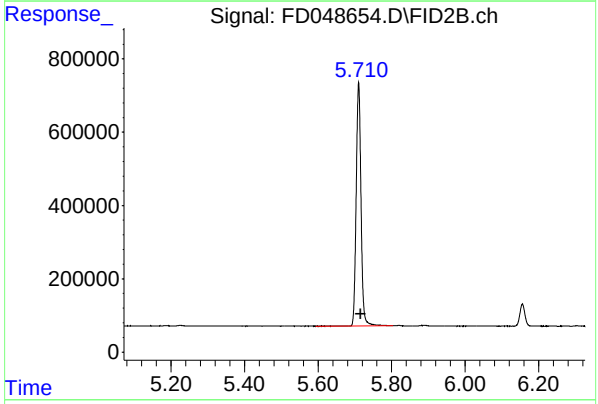




#1 1,2,3-Trimethylbenzene (C10.1)

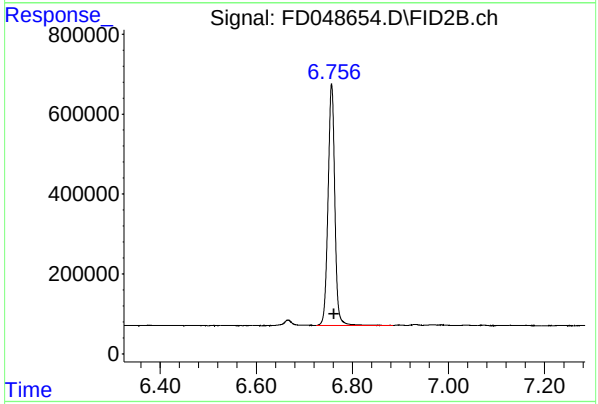
R.T.: 4.192 min
Delta R.T.: -0.005 min
Response: 5227343
Conc: 30.05 ug/ml

Instrument :
FID_D
ClientSampleId :
P001-CF16-01MSD



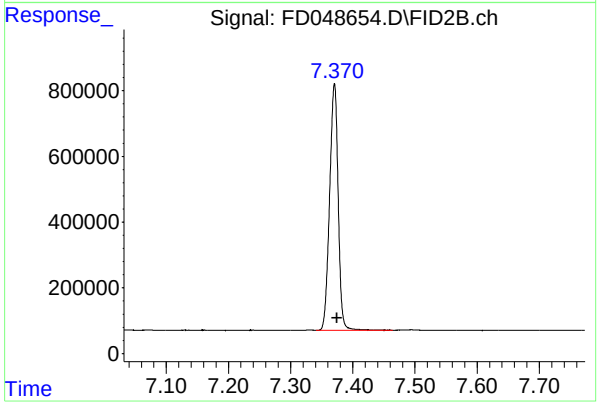
#2 Naphthalene (C11.7)

R.T.: 5.710 min
Delta R.T.: -0.005 min
Response: 6027335
Conc: 33.78 ug/ml



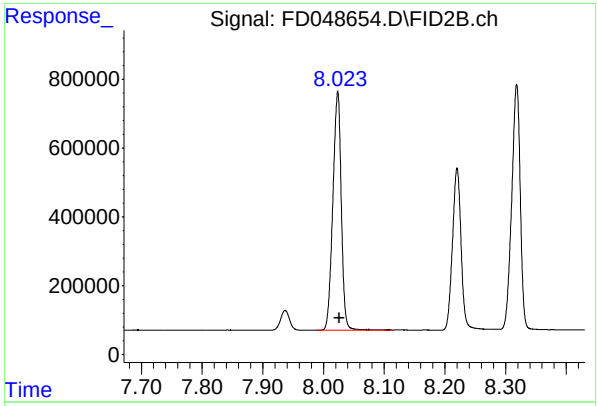
#3 2-Methylnaphthalene (C12.89)

R.T.: 6.757 min
Delta R.T.: -0.005 min
Response: 5925001
Conc: 33.13 ug/ml



#4 2-Bromonaphthalene (SURR)

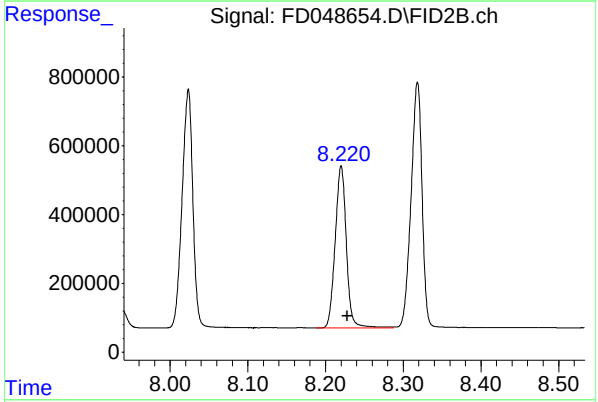
R.T.: 7.370 min
Delta R.T.: -0.004 min
Response: 7167162
Conc: 47.22 ug/ml



#5 Acenaphthylene (C15.06)

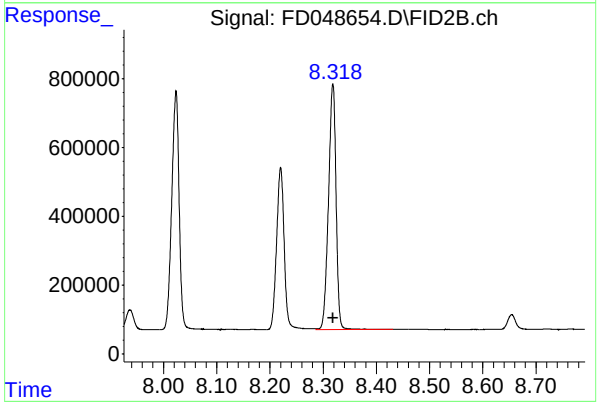
R.T.: 8.023 min
Delta R.T.: -0.003 min
Response: 6707847
Conc: 38.20 ug/ml

Instrument :
FID_D
ClientSampleId :
P001-CF16-01MSD



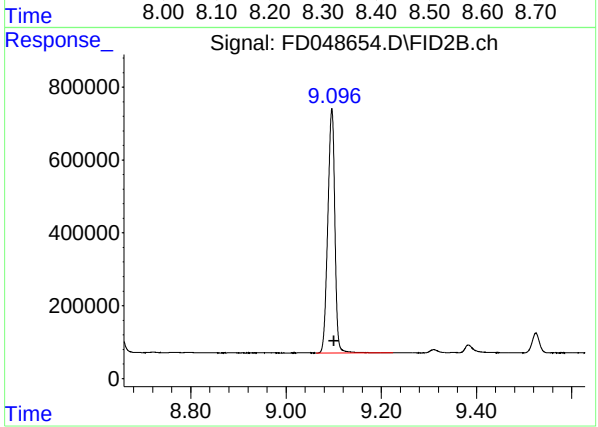
#6 2-Flurobiphenyl (SURR)

R.T.: 8.220 min
Delta R.T.: -0.008 min
Response: 4705355
Conc: 47.92 ug/ml



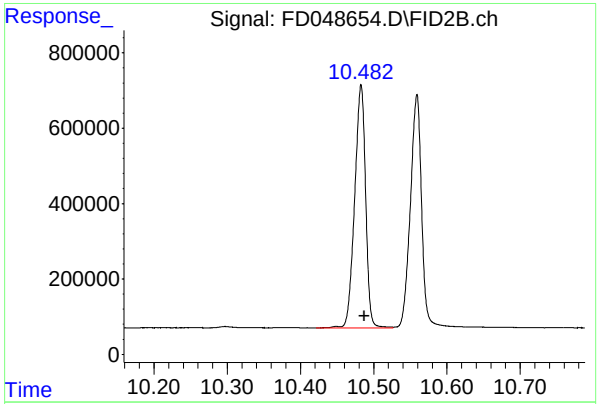
#7 Acenaphthene (C15.5)

R.T.: 8.318 min
Delta R.T.: 0.000 min
Response: 7054056
Conc: 39.77 ug/ml



#8 Flouorene (C16.55)

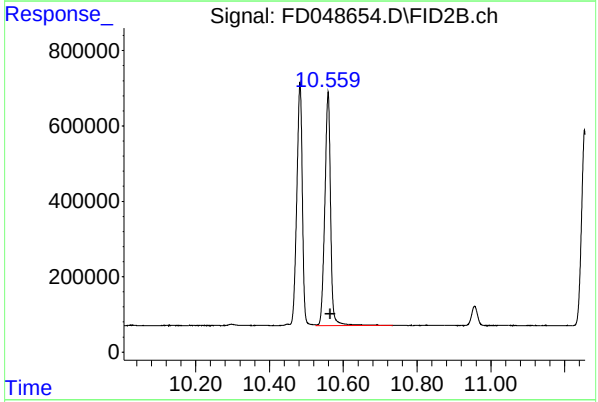
R.T.: 9.096 min
Delta R.T.: -0.004 min
Response: 6856831
Conc: 40.56 ug/ml



#9 Phenanthrene (C19.36)

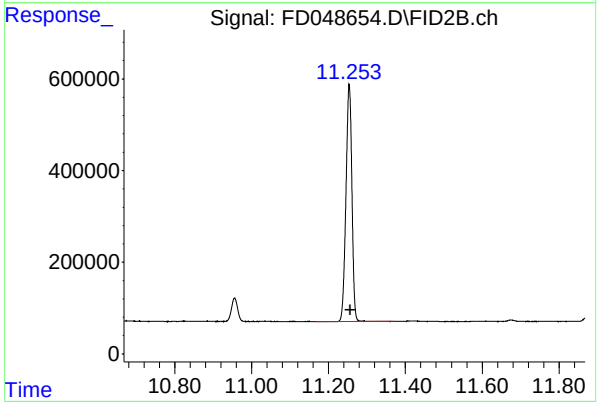
R.T.: 10.483 min
Delta R.T.: -0.005 min
Response: 6699548
Conc: 40.53 ug/ml

Instrument :
FID_D
ClientSampleId :
P001-CF16-01MSD



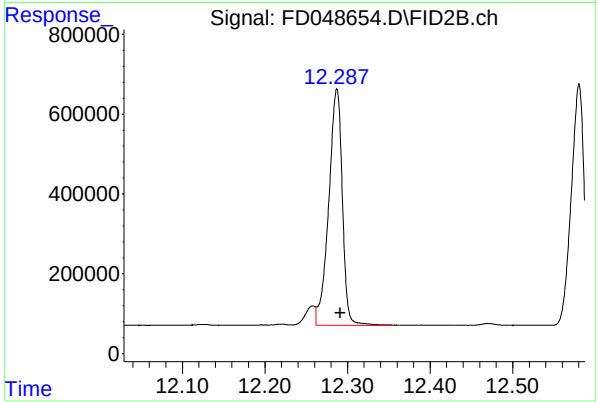
#10 Anthracene (C19.43)

R.T.: 10.559 min
Delta R.T.: -0.006 min
Response: 6716584
Conc: 42.00 ug/ml



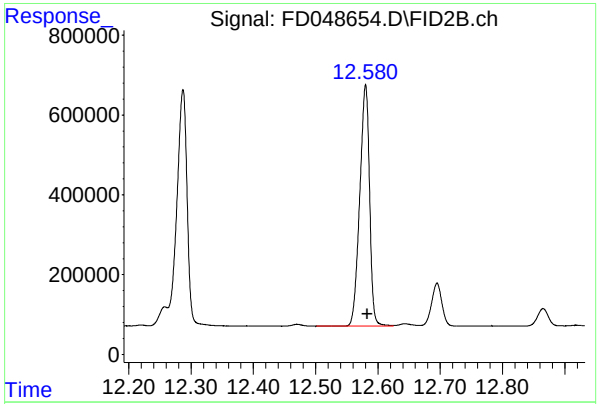
#11 ortho-Terphenyl (SURR)

R.T.: 11.254 min
Delta R.T.: -0.003 min
Response: 5568802
Conc: 32.69 ug/ml



#12 Fluoranthene (C21.85)

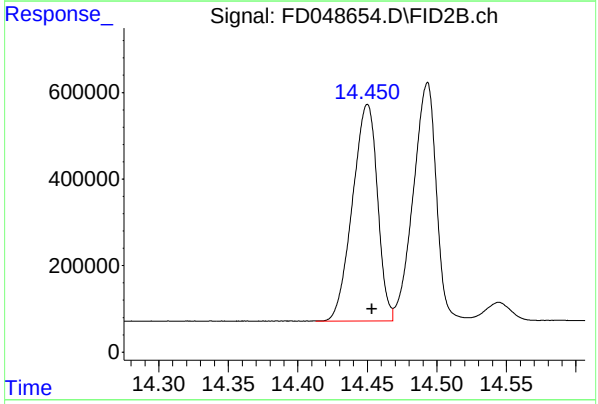
R.T.: 12.287 min
Delta R.T.: -0.005 min
Response: 6806407
Conc: 41.36 ug/ml m



#13 Pyrene (C20.8)

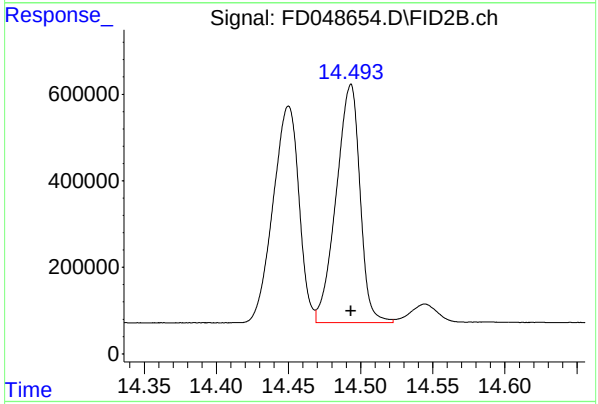
R.T.: 12.580 min
Delta R.T.: -0.003 mi
Response: 6620954
Conc: 41.10 ug/m

Instrument :
FID_D
ClientSampleId :
P001-CF16-01MSD



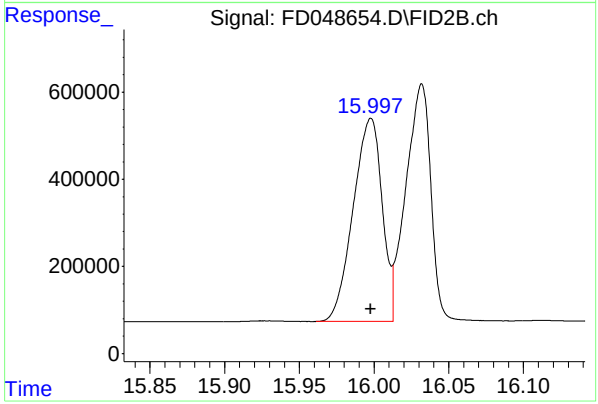
#14 Benzo[a]anthracene (C26.37)

R.T.: 14.450 min
Delta R.T.: -0.003 min
Response: 6265489
Conc: 42.85 ug/ml m



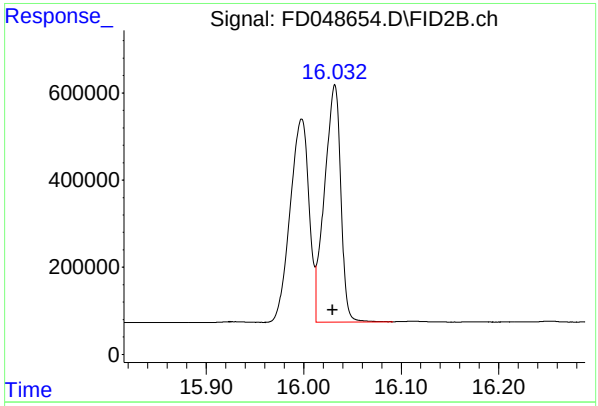
#15 Chrysene (C27.41)

R.T.: 14.493 min
Delta R.T.: 0.000 min
Response: 6352768
Conc: 38.62 ug/ml



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

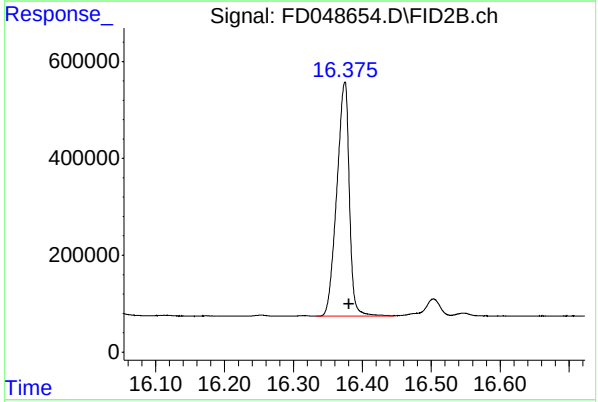
R.T.: 15.997 min
Delta R.T.: 0.000 min
Response: 6284499
Conc: 41.34 ug/ml



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

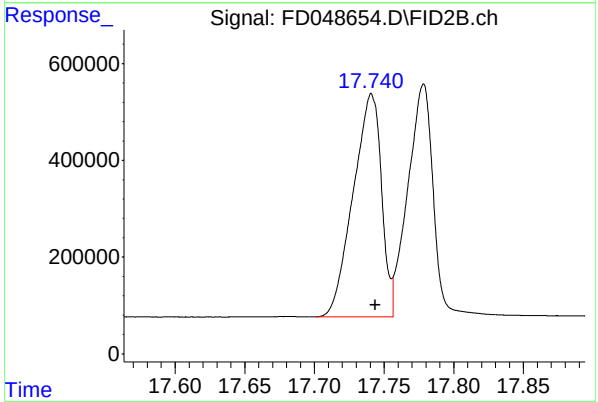
R.T.: 16.031 min
Delta R.T.: 0.002 min
Response: 6326883
Conc: 42.09 ug/ml

Instrument :
FID_D
ClientSampleId :
P001-CF16-01MSD



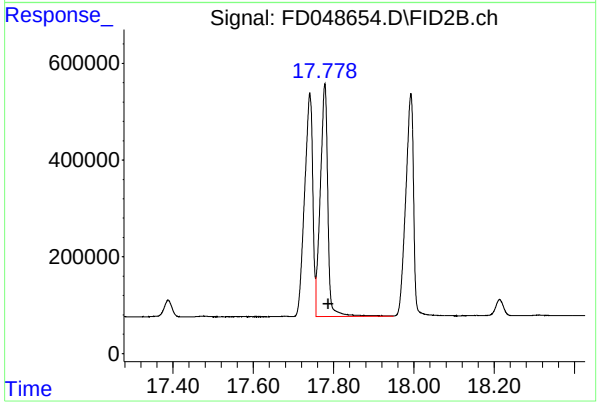
#18 Benzo[a]pyrene (C31.34)

R.T.: 16.374 min
Delta R.T.: -0.007 min
Response: 6123150
Conc: 40.69 ug/ml



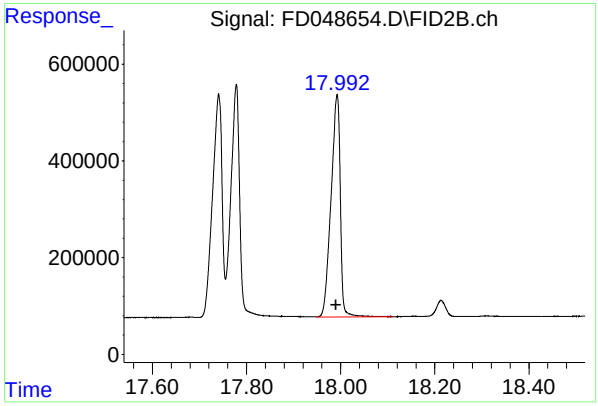
#19 Indeno[1,2,3-cd]pyrene (C35.01)

R.T.: 17.741 min
Delta R.T.: -0.003 min
Response: 6512633
Conc: 49.91 ug/ml



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

R.T.: 17.778 min
Delta R.T.: -0.009 min
Response: 6231842
Conc: 38.29 ug/ml



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

R.T.: 17.992 min
Delta R.T.: 0.002 mi
Response: 6243586
Conc: 40.78 ug/m

Instrument :
FID_D
ClientSampleId :
P001-CF16-01MSD

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD110424AR\
Data File : FD048654.D
Signal(s) : FID2B.ch
Acq On : 05 Nov 2024 00:32
Sample : P4620-24
Misc :
ALS Vial : 69 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	4.193	4.161	4.257	BV	562496	3986958	55.09%	2.846%
2	4.786	4.688	4.828	BV	4093	50040	0.69%	0.036%
3	5.710	5.595	5.804	BV	662748	6027335	83.28%	4.303%
4	6.156	6.081	6.218	BV	59997	580510	8.02%	0.414%
5	6.666	6.612	6.724	PV	14040	184071	2.54%	0.131%
6	6.757	6.724	6.885	VV	604836	5925001	81.87%	4.230%
7	7.370	7.341	7.465	PV	756362	7167162	99.03%	5.117%
8	7.937	7.875	7.988	BV	57806	593646	8.20%	0.424%
9	8.023	7.988	8.114	VV	703742	6707847	92.68%	4.789%
10	8.220	8.188	8.287	PV	471014	4705355	65.01%	3.359%
11	8.318	8.287	8.431	VB	715546	7054056	97.47%	5.036%
12	8.654	8.628	8.701	VV	43070	450530	6.23%	0.322%
13	9.096	9.063	9.225	PB	663238	6856831	94.74%	4.895%
14	9.310	9.285	9.340	PV	8949	108344	1.50%	0.077%
15	9.383	9.340	9.498	VV	21454	321897	4.45%	0.230%
16	9.525	9.498	9.575	VV	54436	573997	7.93%	0.410%
17	10.297	10.273	10.327	PV	3397	39105	0.54%	0.028%
18	10.483	10.421	10.526	BV	635974	6699548	92.57%	4.783%
19	10.559	10.526	10.735	VV	611624	6716584	92.80%	4.795%
20	10.956	10.926	11.008	PV	51199	564608	7.80%	0.403%
21	11.254	11.168	11.368	BB	517697	5568802	76.95%	3.975%
22	11.871	11.798	11.934	BV	7715	109553	1.51%	0.078%
23	12.287	12.232	12.448	VB	598682	7237378	100.00%	5.167%
24	12.470	12.448	12.501	BV	4739	52064	0.72%	0.037%
25	12.580	12.501	12.624	PV	609670	6620954	91.48%	4.727%
26	12.644	12.624	12.666	VV	5744	86062	1.19%	0.061%
27	12.695	12.666	12.755	VB	107573	1226145	16.94%	0.875%
28	12.865	12.791	12.899	BV	43396	507807	7.02%	0.363%
29	13.448	13.418	13.521	PB	43418	529243	7.31%	0.378%
30	14.450	14.328	14.469	BV	504482	6267209	86.60%	4.474%
31	14.493	14.469	14.522	VV	544639	6352768	87.78%	4.535%
32	14.545	14.522	14.641	VB	42936	595886	8.23%	0.425%
33	14.917	14.892	15.011	VV	19569	278775	3.85%	0.199%
34	15.561	15.498	15.615	BB	38039	492250	6.80%	0.351%
35	15.997	15.961	16.013	BV	467683	6284499	86.83%	4.486%
36	16.031	16.013	16.092	VV	543801	6326883	87.42%	4.517%

rteres

37	16.374	16.333	16.445	PV	487254	6123150	84.60%	4.371%
38	16.503	16.445	16.529	VV	35379	555691	7.68%	0.397%
39	16.547	16.529	16.590	VV	6119	84678	1.17%	0.060%
40	17.388	17.308	17.441	BV	34920	476860	6.59%	0.340%
41	17.741	17.701	17.756	BV	462004	6512633	89.99%	4.649%
42	17.778	17.756	17.948	VV	481511	6231842	86.11%	4.449%
43	17.992	17.948	18.111	VV	456817	6243586	86.27%	4.457%

Sum of corrected areas: 140078143

Aromatic EPH 102324.M Tue Nov 05 03:39:28 2024

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

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	10/29/24
Project:	RFP 872	Date Received:	10/29/24
Client Sample ID:	P001-CF16-01MSD	SDG No.:	P4620
Lab Sample ID:	P4620-27	Matrix:	Water
Analytical Method:	NJEPH	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :	SW3510		

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FG014648.D	1	11/03/24	11/04/24	PB164637

CAS Number	Parameter		Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
Aliphatic C9-C12	Aliphatic C9-C12		244		5.76	30.0	ug/l
Aliphatic C12-C16	Aliphatic C12-C16		192		3.61	20.0	ug/l
Aliphatic C16-C21	Aliphatic C16-C21		281		5.14	30.0	ug/l
Aliphatic C21-C28	Aliphatic C21-C28		345		8.97	40.0	ug/l
Aliphatic C28-C40	Aliphatic C28-C40		579		17.0	60.0	ug/l
SURROGATES							
3383-33-2	1-chlorooctadecane (SURR)		53.2		40 - 140	106%	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:	P4620-27	Acq On:	04 Nov 2024 17:21
Client Sample ID:	P001-CF16-01MSD	Operator:	YP\AJ
Data file:	FG014648.D	Misc:	
Instrument:	FID_G	ALS Vial:	23
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.228	6.849	16082179	122.446	300	ug/ml
Aliphatic C12-C16	6.850	10.292	13060822	96.161	200	ug/ml
Aliphatic C16-C21	10.293	13.665	19897281	140.865	300	ug/ml
Aliphatic C21-C28	13.666	17.329	24316023	172.968	400	ug/ml
Aliphatic C28-C40	17.330	22.266	30613212	289.659	600	ug/ml
Aliphatic EPH	3.228	22.266	103969517	822.099		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	13.399	13.399	6530767	53.19		ug/ml
Aliphatic C9-C28	3.228	17.329	73356305	532.44	1200	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG110424AL\
Data File : FG014648.D
Signal(s) : FID1A.ch
Acq On : 04 Nov 2024 17:21
Operator : YP\AJ
Sample : P4620-27MSD
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
P001-CF16-01MSD

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 11/06/2024
Supervised By :Ankita Jodhani 11/06/2024

Integration File: autoint1.e
Quant Time: Nov 05 00:38:06 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 102124.M
Quant Title : GC Extractables
QLast Update : Tue Oct 22 06:49:54 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...	13.399	6530767	53.186 ug/ml
Spiked Amount	50.000		Recovery =	106.37%
	Target Compounds			
1) T	n-Nonane (C9)	3.329	4349451	33.609 ug/ml
2) T	n-Decane (C10)	4.579	5366504	40.727 ug/mlm
4) T	n-Dodecane (C12)	6.750	6123951	46.099 ug/ml
6) T	n-Tetradecane (C14)	8.582	6322217	47.650 ug/ml
7) T	n-Hexadecane (C16)	10.193	6494742	46.737 ug/ml
8) T	n-Octadecane (C18)	11.640	6675584	46.631 ug/ml
10) T	n-Eicosane (C20)	12.953	6723490	47.810 ug/ml
11) T	n-Heneicosane (C21)	13.567	6448487	46.072 ug/ml
13) T	n-Docosane (C22)	14.153	6393955	45.453 ug/ml
14) T	n-Tetracosane (C24)	15.258	6218942	43.704 ug/ml
15) T	n-Hexacosane (C26)	16.280	5964929	42.259 ug/ml
16) T	n-Octacosane (C28)	17.231	5738197	41.519 ug/ml
17) T	n-Tricontane (C30)	18.118	5588483	40.320 ug/ml
18) T	n-Dotriacontane (C32)	18.952	5361869	40.954 ug/ml
19) T	n-Tetratriacontane (C34)	19.735	5149686	46.009 ug/ml
20) T	n-Hexatriacontane (C36)	20.475	4862133	52.238 ug/ml
21) T	n-Octatriacontane (C38)	21.225	4748915	56.840 ug/ml
22) T	n-Tetracontane (C40)	22.166	4650353	61.154 ug/ml

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

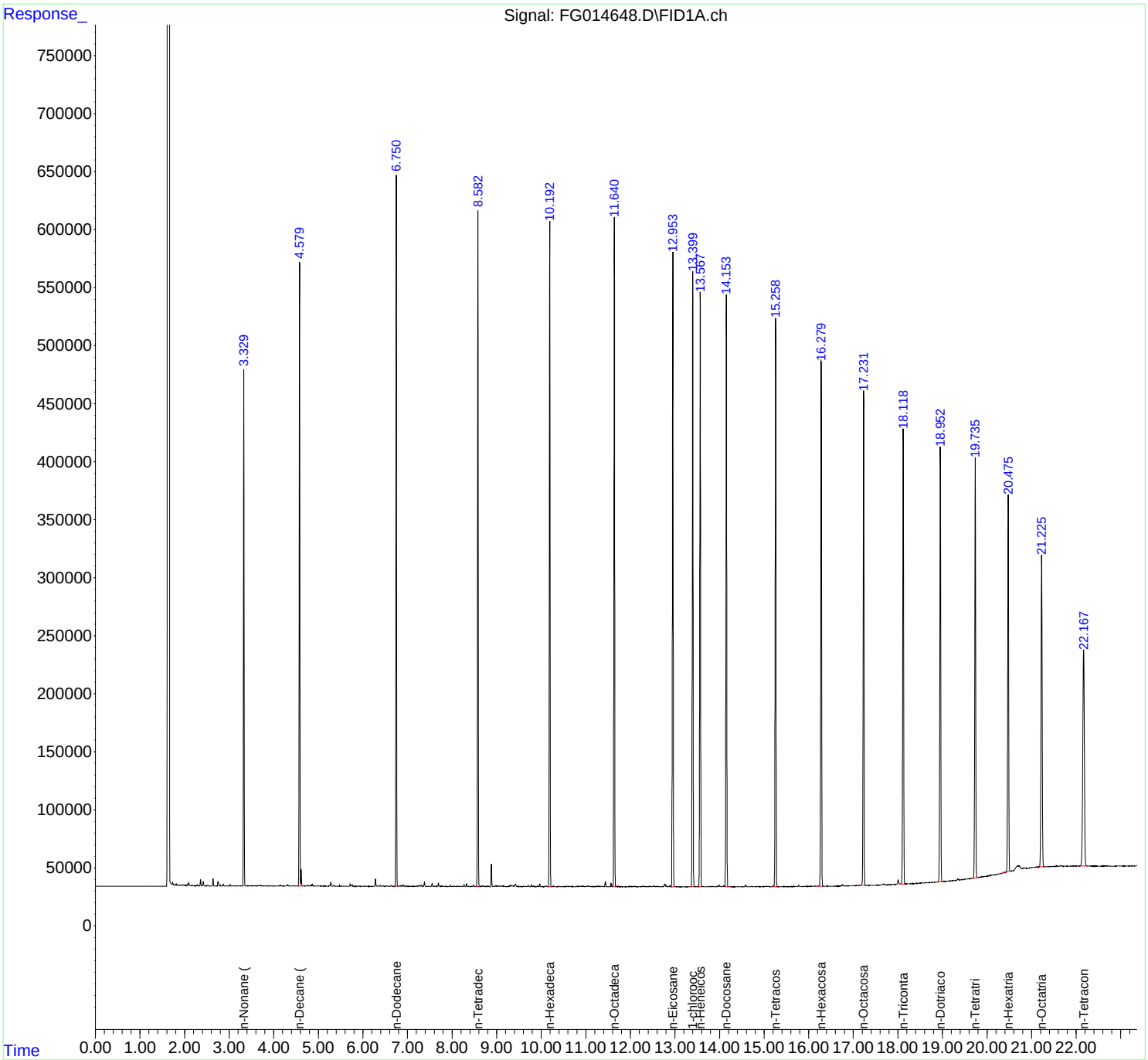
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG110424AL\
Data File : FG014648.D
Signal(s) : FID1A.ch
Acq On : 04 Nov 2024 17:21
Operator : YP\AJ
Sample : P4620-27MSD
Misc :
ALS Vial : 23 Sample Multiplier: 1

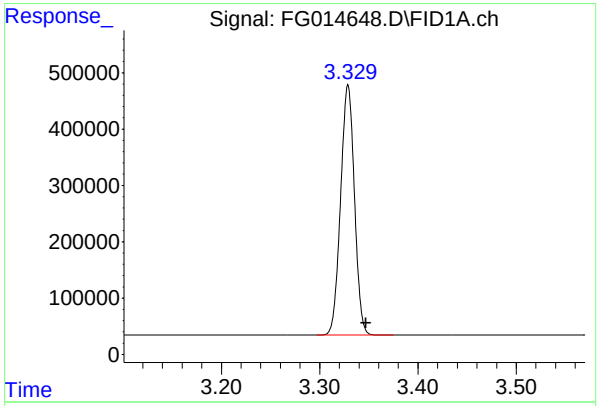
Instrument :
FID_G
ClientSampleId :
P001-CF16-01MSD

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 11/06/2024
Supervised By :Ankita Jodhani 11/06/2024

Integration File: autoint1.e
Quant Time: Nov 05 00:38:06 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 102124.M
Quant Title : GC Extractables
QLast Update : Tue Oct 22 06:49:54 2024
Response via : Initial Calibration
Integrator: ChemStation

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





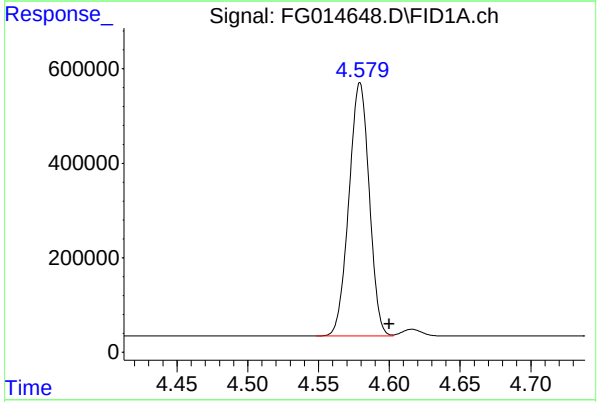
#1 n-Nonane (C9)

R.T.: 3.329 min
Delta R.T.: -0.018 min
Response: 4349451
Conc: 33.61 ug/ml

Instrument :
FID_G
ClientSampleId :
P001-CF16-01MSD

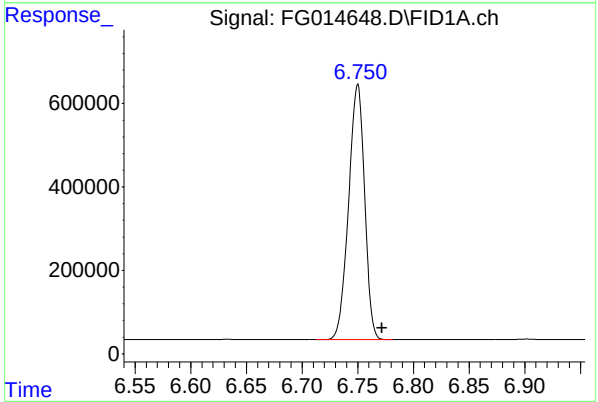
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/06/2024
Supervised By :Ankita Jodhani 11/06/2024



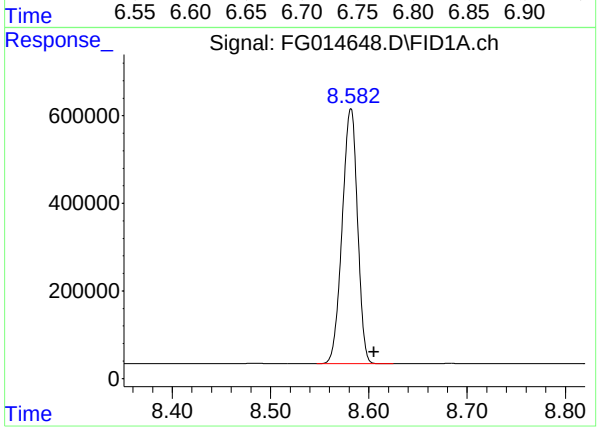
#2 n-Decane (C10)

R.T.: 4.579 min
Delta R.T.: -0.021 min
Response: 5366504
Conc: 40.73 ug/ml m



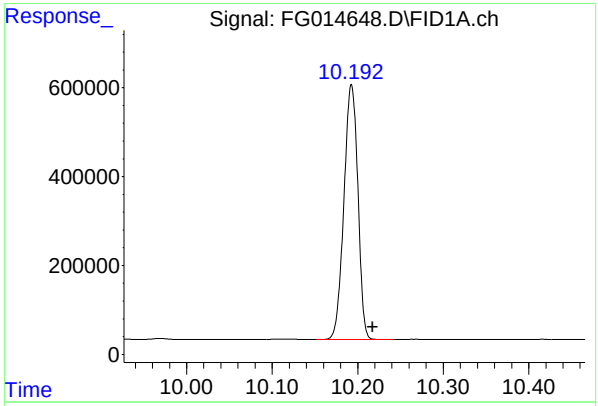
#4 n-Dodecane (C12)

R.T.: 6.750 min
Delta R.T.: -0.022 min
Response: 6123951
Conc: 46.10 ug/ml



#6 n-Tetradecane (C14)

R.T.: 8.582 min
Delta R.T.: -0.023 min
Response: 6322217
Conc: 47.65 ug/ml



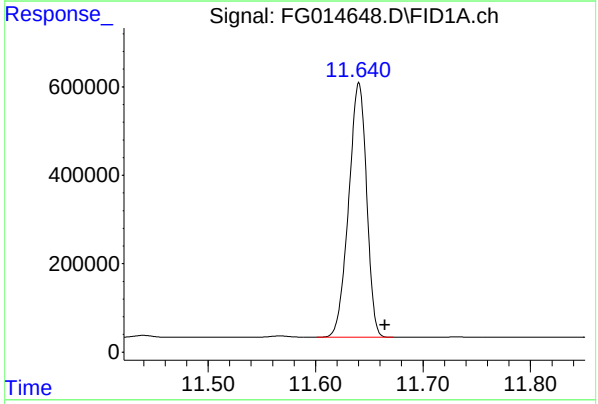
#7 n-Hexadecane (C16)

R.T.: 10.193 min
Delta R.T.: -0.025 min
Response: 6494742
Conc: 46.74 ug/ml

Instrument :
FID_G
ClientSampleId :
P001-CF16-01MSD

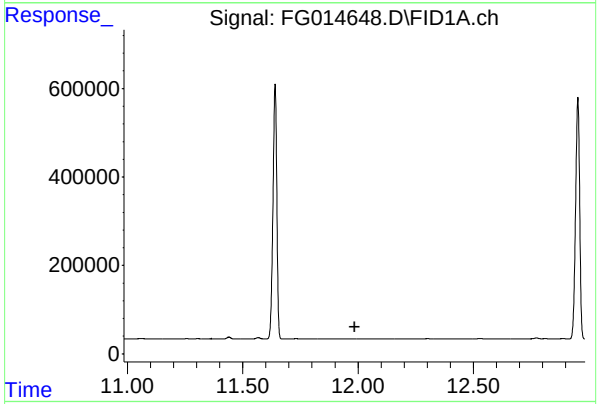
Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/06/2024
Supervised By :Ankita Jodhani 11/06/2024



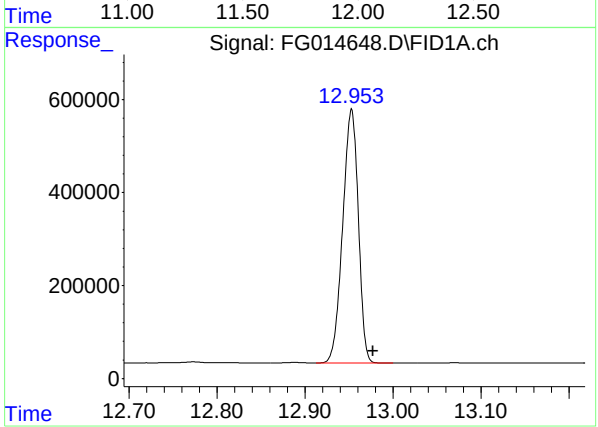
#8 n-Octadecane (C18)

R.T.: 11.640 min
Delta R.T.: -0.024 min
Response: 6675584
Conc: 46.63 ug/ml



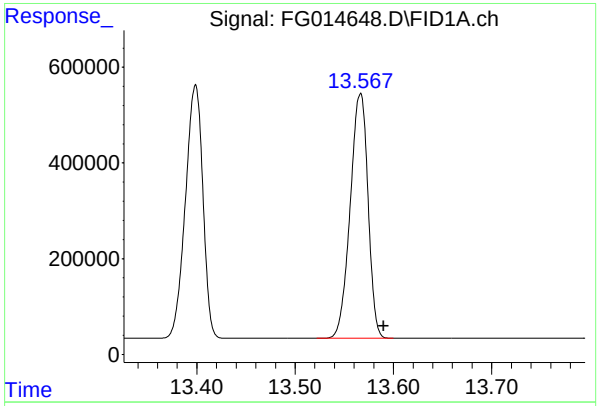
#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.984 min
Response: 0
Conc: N.D.



#10 n-Eicosane (C20)

R.T.: 12.953 min
Delta R.T.: -0.025 min
Response: 6723490
Conc: 47.81 ug/ml



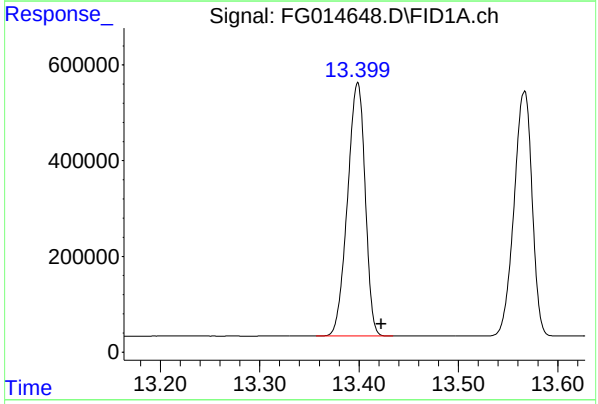
#11 n-Heneicosane (C21)

R.T.: 13.567 min
Delta R.T.: -0.024 min
Response: 6448487
Conc: 46.07 ug/ml

Instrument :
FID_G
ClientSampleId :
P001-CF16-01MSD

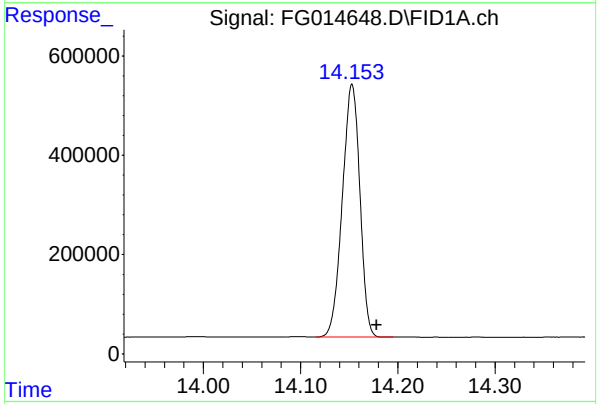
Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/06/2024
Supervised By :Ankita Jodhani 11/06/2024



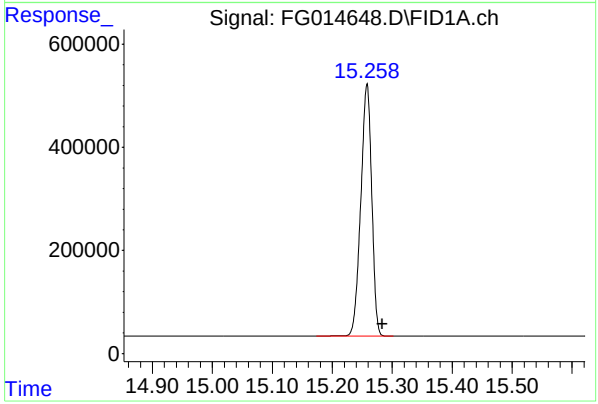
#12 1-chlorooctadecane (SURR)

R.T.: 13.399 min
Delta R.T.: -0.024 min
Response: 6530767
Conc: 53.19 ug/ml



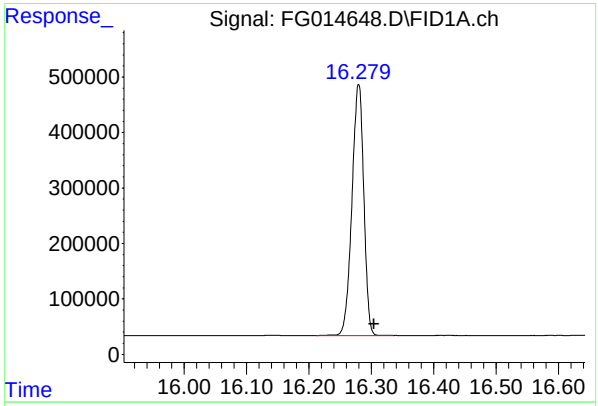
#13 n-Docosane (C22)

R.T.: 14.153 min
Delta R.T.: -0.025 min
Response: 6393955
Conc: 45.45 ug/ml



#14 n-Tetracosane (C24)

R.T.: 15.258 min
Delta R.T.: -0.025 min
Response: 6218942
Conc: 43.70 ug/ml



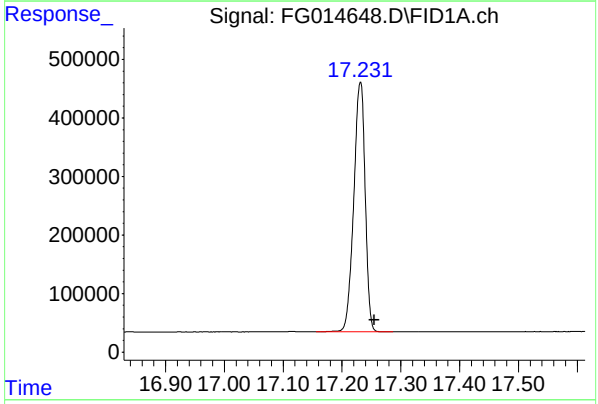
#15 n-Hexacosane (C26)

R.T.: 16.280 min
Delta R.T.: -0.024 min
Response: 5964929
Conc: 42.26 ug/ml

Instrument :
FID_G
ClientSampleId :
P001-CF16-01MSD

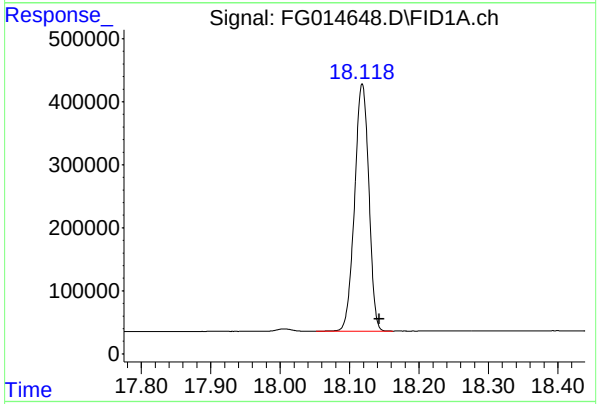
Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/06/2024
Supervised By :Ankita Jodhani 11/06/2024



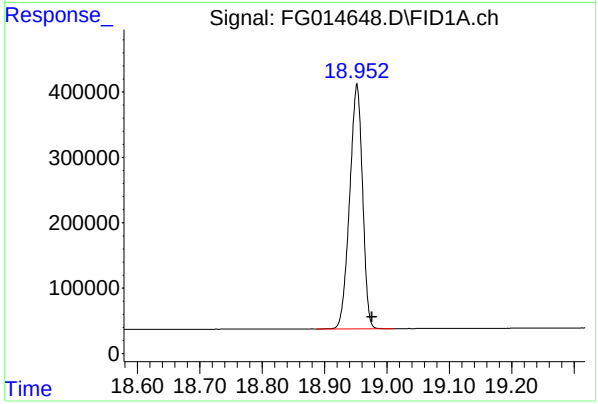
#16 n-Octacosane (C28)

R.T.: 17.231 min
Delta R.T.: -0.024 min
Response: 5738197
Conc: 41.52 ug/ml



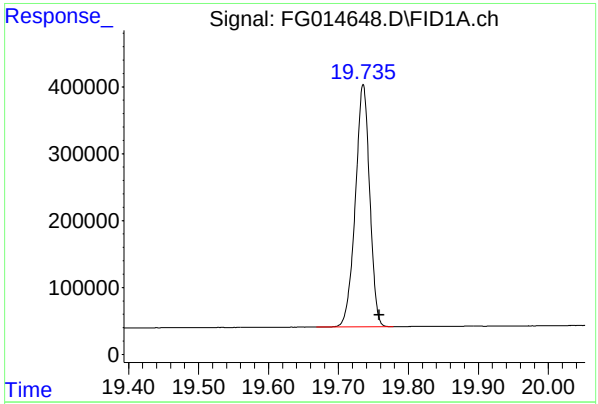
#17 n-Tricontane (C30)

R.T.: 18.118 min
Delta R.T.: -0.025 min
Response: 5588483
Conc: 40.32 ug/ml



#18 n-Dotriacontane (C32)

R.T.: 18.952 min
Delta R.T.: -0.024 min
Response: 5361869
Conc: 40.95 ug/ml



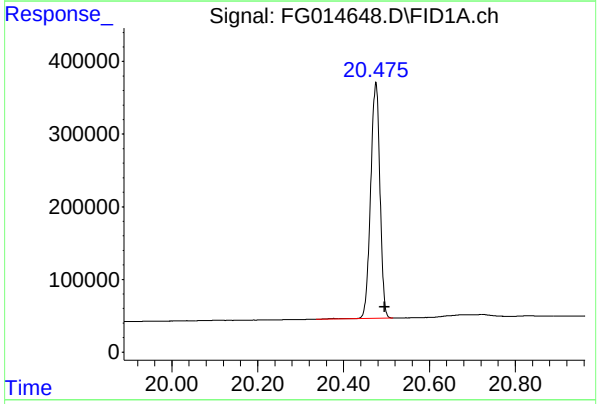
#19 n-Tetratriacontane (C34)

R.T.: 19.735 min
Delta R.T.: -0.023 min
Response: 5149686
Conc: 46.01 ug/ml

Instrument :
FID_G
ClientSampleId :
P001-CF16-01MSD

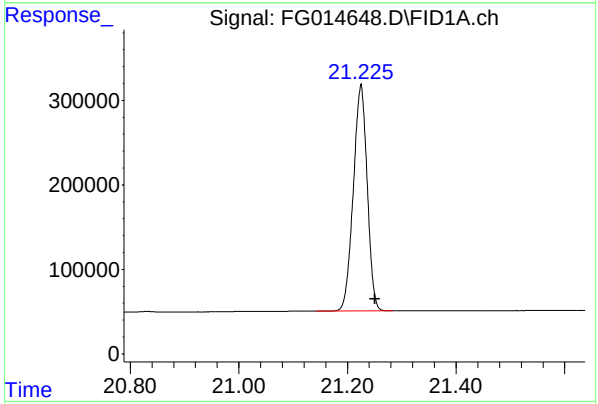
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/06/2024
Supervised By :Ankita Jodhani 11/06/2024



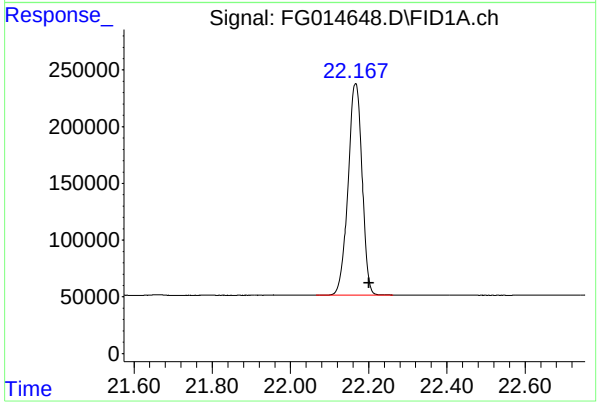
#20 n-Hexatriacontane (C36)

R.T.: 20.475 min
Delta R.T.: -0.020 min
Response: 4862133
Conc: 52.24 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 21.225 min
Delta R.T.: -0.026 min
Response: 4748915
Conc: 56.84 ug/ml



#22 n-Tetracontane (C40)

R.T.: 22.166 min
Delta R.T.: -0.034 min
Response: 4650353
Conc: 61.15 ug/ml

Instrument :
FID_G
ClientSampleId :
P001-CF16-01MSD

rteres

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/06/2024
Supervised By :Ankita Jodhani 11/06/2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG11042
Data File : FG014648.D
Signal(s) : FID1A.ch
Acq On : 04 Nov 2024 17:21
Sample : P4620-27MSD
Misc :
ALS Vial : 23 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 102124.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	3.329	3.297	3.375	BB	444621	4349451	64.69%	3.936%
2	4.579	4.542	4.603	BV	537149	5362287	79.75%	4.853%
3	4.616	4.603	4.642	VB	14276	136843	2.04%	0.124%
4	5.280	5.225	5.313	BB	3643	48065	0.71%	0.043%
5	6.284	6.263	6.314	BB	6462	61582	0.92%	0.056%
6	6.750	6.713	6.782	BB	612455	6123951	91.08%	5.542%
7	7.381	7.353	7.411	BB	3458	43438	0.65%	0.039%
8	8.582	8.547	8.625	BB	582285	6322217	94.03%	5.721%
9	8.883	8.854	8.910	BB	19509	200425	2.98%	0.181%
10	10.193	10.152	10.242	BB	573661	6494742	96.60%	5.878%
11	11.440	11.413	11.471	BB	4315	49720	0.74%	0.045%
12	11.640	11.601	11.673	BB	576106	6675584	99.29%	6.041%
13	12.953	12.913	13.000	BB	546737	6723490	100.00%	6.085%
14	13.399	13.357	13.434	BB	529939	6530767	97.13%	5.910%
15	13.567	13.522	13.600	BB	511785	6448487	95.91%	5.836%
16	14.153	14.116	14.195	VB	509803	6393955	95.10%	5.786%
17	15.258	15.173	15.302	BB	490020	6218942	92.50%	5.628%
18	16.280	16.212	16.335	BB	452610	5964929	88.72%	5.398%
19	17.231	17.156	17.287	BB	426424	5738197	85.35%	5.193%
20	18.006	17.961	18.038	BB	3774	54776	0.81%	0.050%
21	18.118	18.052	18.163	BB	392581	5588483	83.12%	5.057%
22	18.952	18.887	19.010	BB	374592	5361869	79.75%	4.852%
23	19.735	19.668	19.778	BB	362172	5149686	76.59%	4.660%
24	20.475	20.336	20.515	BB	324994	4862133	72.32%	4.400%
25	20.726	20.592	20.788	BB	2961	196997	2.93%	0.178%
26	21.225	21.142	21.284	BB	269607	4748915	70.63%	4.298%
27	22.166	22.065	22.262	BB	186588	4650353	69.17%	4.208%

Sum of corrected areas: 110500284

Aliphatic EPH 102124.M Tue Nov 05 01:19:56 2024

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

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	10/29/24
Project:	RFP 872	Date Received:	10/29/24
Client Sample ID:	P001-CF16-01MSD	SDG No.:	P4620
Lab Sample ID:	P4620-27	Matrix:	Water
Analytical Method:	NJEPH	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :	SW3510		

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FF014918.D	1	11/03/24	11/04/24	PB164637

CAS Number	Parameter		Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
Aromatic C10-C12	Aromatic C10-C12		154		3.32	20.0	ug/l
Aromatic C12-C16	Aromatic C12-C16		250		3.69	30.0	ug/l
Aromatic C16-C21	Aromatic C16-C21		446		12.7	50.0	ug/l
Aromatic C21-C36	Aromatic C21-C36		644		25.2	80.0	ug/l
SURROGATES							
580-13-2	2-Bromonaphthalene (SURR)		44.6		40 - 140	89%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)		42.8		40 - 140	86%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)		41.6		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:	P4620-27	Acq On:	04 Nov 2024 17:21
Client Sample ID:	P001-CF16-01MSD	Operator:	YP\AJ
Data file:	FF014918.D	Misc:	
Instrument:	FID_F	ALS Vial:	73
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.508	6.372	12087948	77.444	200	ug/ml
Aromatic C12-C16	6.373	9.064	20025756	125.459	300	ug/ml
Aromatic C16-C21	9.065	13.375	34675931	223.16	500	ug/ml
Aromatic C21-C36	13.376	18.817	47809626	322.071	800	ug/ml
Aromatic EPH	4.508	18.817	114599261	748.133		ug/ml
ortho-Terphenyl (SURR)	11.928	11.928	6657427	41.61		ug/ml
2-Bromonaphthalene (SURR)	7.992	7.992	6216956	44.58		ug/ml
2-Flurobiphenyl (SURR)	8.866	8.866	4036016	42.8		ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF110424AR\
Data File : FF014918.D
Signal(s) : FID2B.ch
Acq On : 04 Nov 2024 17:21
Operator : YP\AJ
Sample : P4620-27MSD
Misc :
ALS Vial : 73 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
P001-CF16-01MSD

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 11/06/2024
Supervised By :Ankita Jodhani 11/06/2024

Integration File: autoint1.e
Quant Time: Nov 05 01:27:19 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 102124.M
Quant Title : GC Extractables
QLast Update : Tue Oct 22 04:14:53 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...	7.992	6216956	44.583 ug/ml
Spiked Amount	50.000		Recovery =	89.17%
6) S	2-Flurobiphenyl (SURR)	8.866	4036016	42.795 ug/ml
Spiked Amount	50.000 Range	0 - 131	Recovery =	85.59%
11) S	ortho-Terphenyl (SURR)	11.928	6657427	41.615 ug/ml
Spiked Amount	50.000		Recovery =	83.23%
	Target Compounds			
1) T	1,2,3-Trimethylbenzen...	4.610	5371512	35.313 ug/ml
2) T	Naphthalene (C11.7)	6.273	6007739	37.534 ug/ml
3) T	2-Methylnaphthalene (...	7.367	5691952	35.183 ug/ml
5) T	Acenaphthylene (C15.06)	8.667	6245459	39.425 ug/ml
7) T	Acenaphthene (C15.5)	8.967	6486118	40.879 ug/ml
8) T	Flouorene (C16.55)	9.755	6317964	40.044 ug/ml
9) T	Phenanthrene (C19.36)	11.160	6114987	38.844 ug/ml
10) T	Anthracene (C19.43)	11.236	6024310	40.049 ug/ml
12) T	Fluoranthene (C21.85)	12.980	5913086	37.521 ug/ml
13) T	Pyrene (C20.8)	13.279	5852318	37.534 ug/ml
14) T	Benzo[a]anthracene (C...	15.158	5614221	36.945 ug/ml
15) T	Chrysene (C27.41)	15.202	6113611	39.560 ug/mlm
16) T	benzo[b]fluoranthene ...	16.715	5579669	36.496 ug/ml
17) T	Bnezo[k]fluoranthene ...	16.751	5544536	38.380 ug/mlm
18) T	Benzo[a]pyrene (C31.34)	17.096	5368693	35.967 ug/ml
19) T	Indeno[1,2,3-cd]pyren...	18.468	5762016	42.012 ug/mlm
20) T	Dibenz[a,h]anthracene...	18.505	5141978	35.395 ug/mlm
21) T	Benzo[g,h,i]perylene ...	18.727	5647297	39.529 ug/ml

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

Quantitation Report (QT Reviewed)

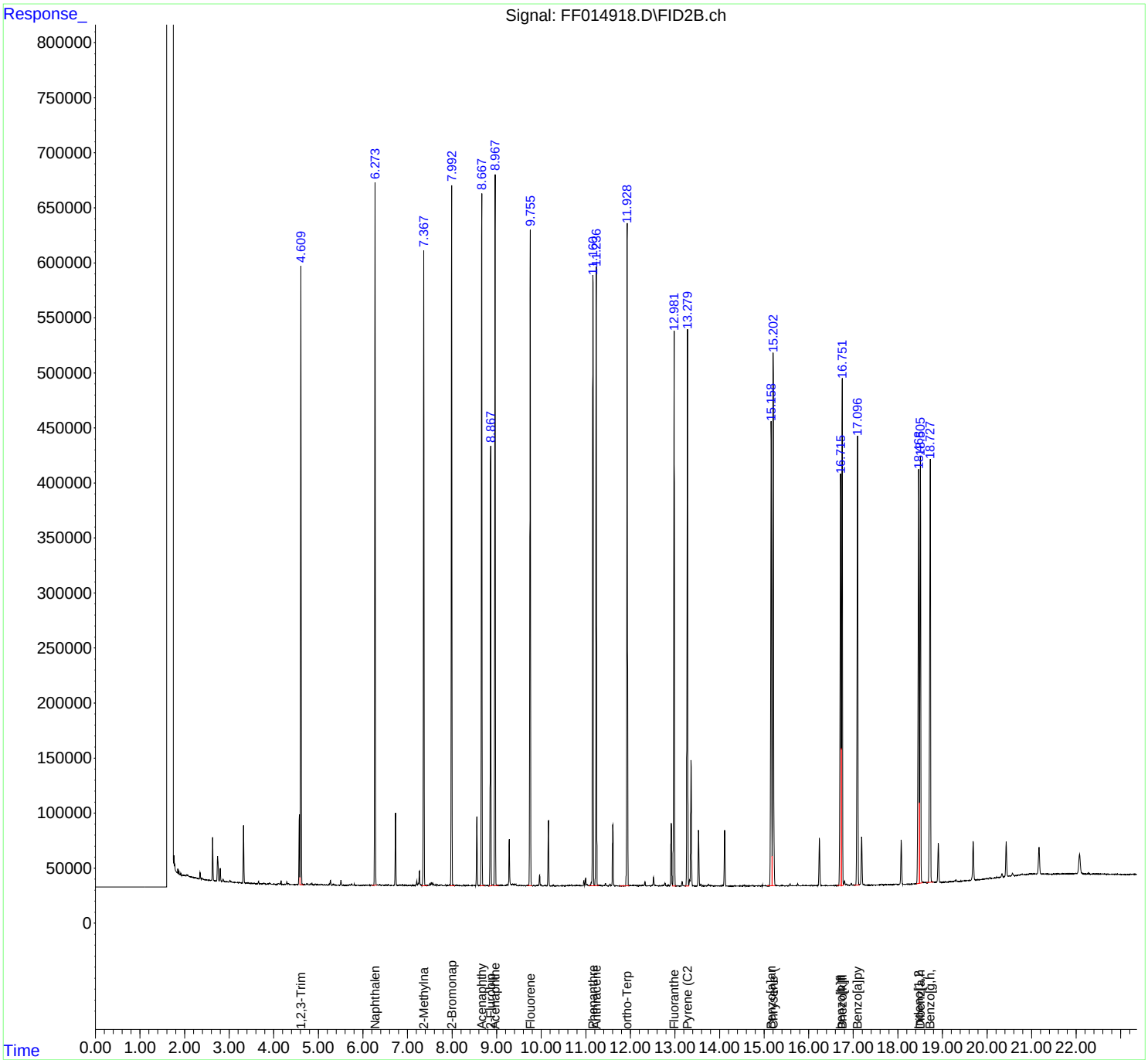
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF110424AR\
Data File : FF014918.D
Signal(s) : FID2B.ch
Acq On : 04 Nov 2024 17:21
Operator : YP\AJ
Sample : P4620-27MSD
Misc :
ALS Vial : 73 Sample Multiplier: 1

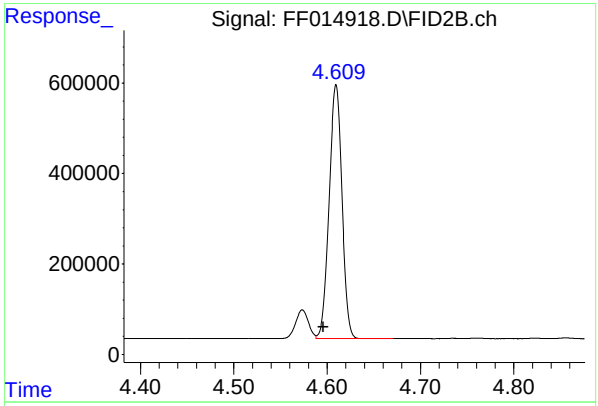
Instrument :
FID_F
ClientSampleId :
P001-CF16-01MSD

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 11/06/2024
Supervised By :Ankita Jodhani 11/06/2024

Integration File: autoint1.e
Quant Time: Nov 05 01:27:19 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 102124.M
Quant Title : GC Extractables
QLast Update : Tue Oct 22 04:14:53 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.: 4.610 min
Delta R.T.: 0.014 min
Response: 5371512
Conc: 35.31 ug/ml

Instrument :
FID_F
ClientSampleId :
P001-CF16-01MSD

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/06/2024
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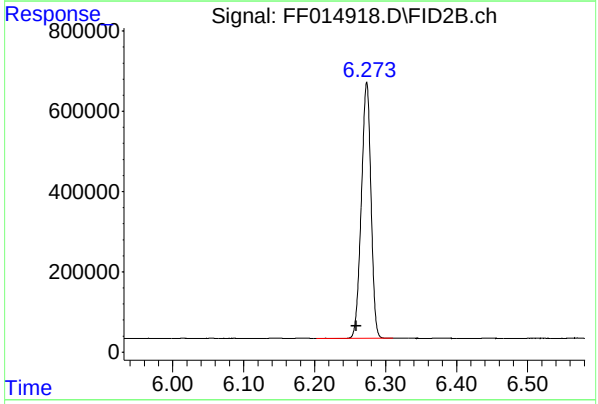
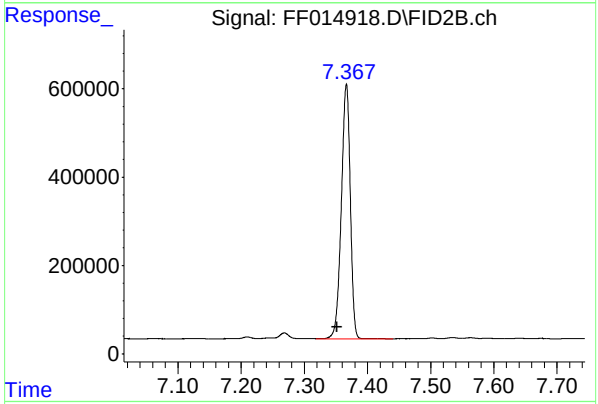


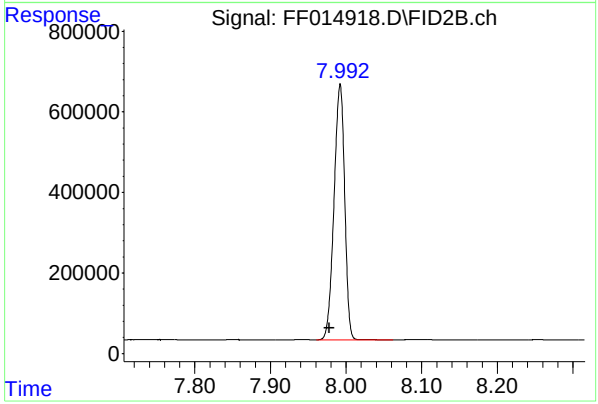
#2 Naphthalene (C11.7)

R.T.: 6.273 min
Delta R.T.: 0.014 min
Response: 6007739
Conc: 37.53 ug/ml



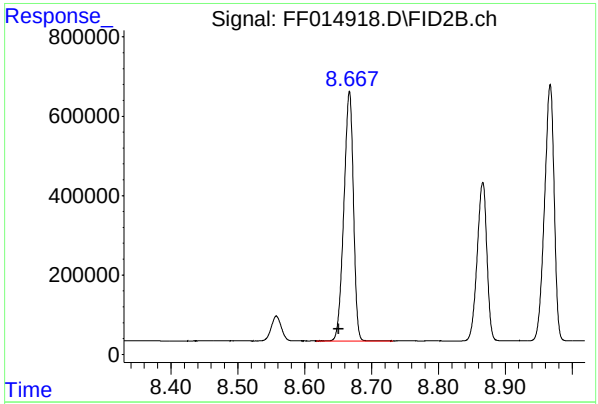
#3 2-Methylnaphthalene (C12.89)

R.T.: 7.367 min
Delta R.T.: 0.015 min
Response: 5691952
Conc: 35.18 ug/ml



#4 2-Bromonaphthalene (SURR)

R.T.: 7.992 min
Delta R.T.: 0.014 min
Response: 6216956
Conc: 44.58 ug/ml



#5 Acenaphthylene (C15.06)

R.T.: 8.667 min
Delta R.T.: 0.016 min
Response: 6245459
Conc: 39.42 ug/ml

Instrument :
FID_F
ClientSampleId :
P001-CF16-01MSD

Manual Integrations
APPROVED

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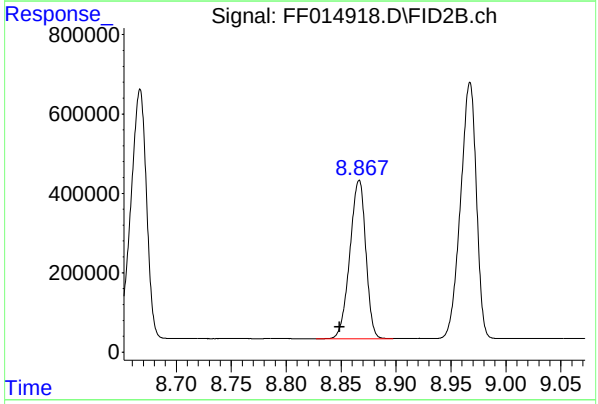
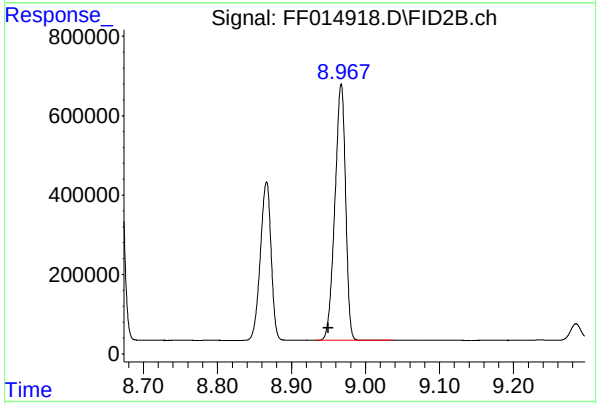


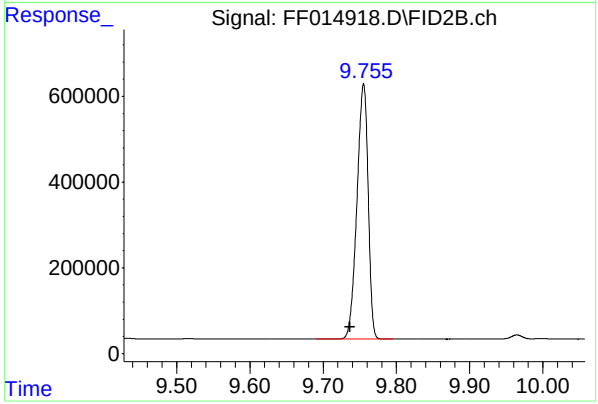
#6 2-Flurobiphenyl (SURR)

R.T.: 8.866 min
Delta R.T.: 0.017 min
Response: 4036016
Conc: 42.80 ug/ml



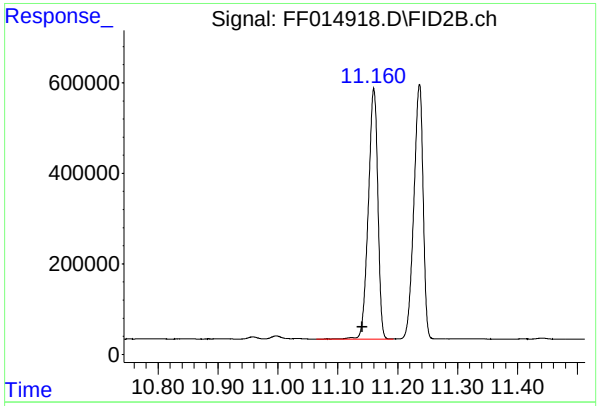
#7 Acenaphthene (C15.5)

R.T.: 8.967 min
Delta R.T.: 0.017 min
Response: 6486118
Conc: 40.88 ug/ml



#8 Flouorene (C16.55)

R.T.: 9.755 min
Delta R.T.: 0.018 min
Response: 6317964
Conc: 40.04 ug/ml



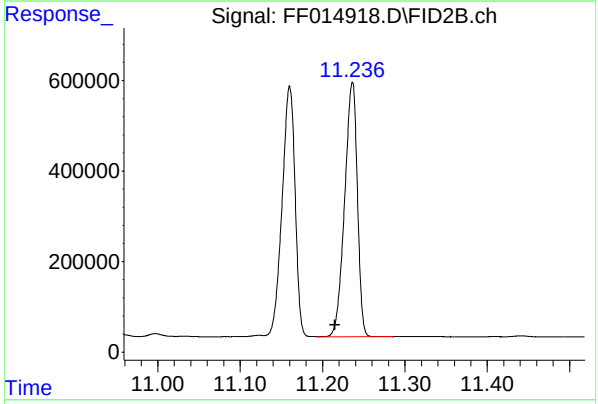
#9 Phenanthrene (C19.36)

R.T.: 11.160 min
Delta R.T.: 0.019 min
Response: 6114987
Conc: 38.84 ug/ml

Instrument :
FID_F
ClientSampleId :
P001-CF16-01MSD

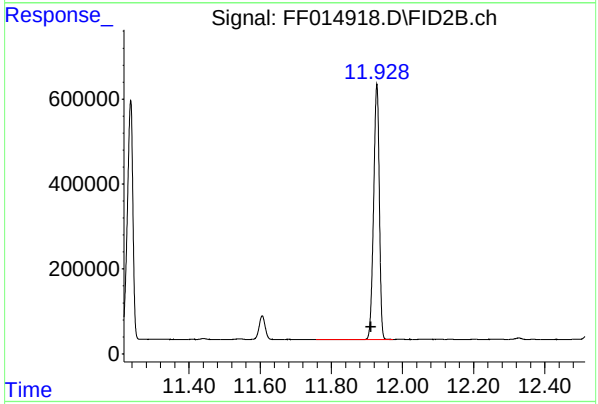
Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/06/2024
Supervised By :Ankita Jodhani 11/06/2024



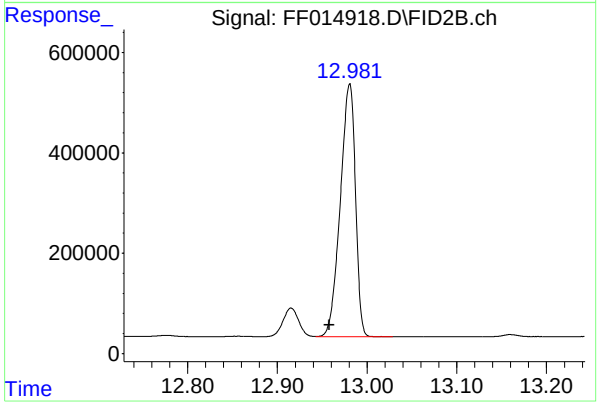
#10 Anthracene (C19.43)

R.T.: 11.236 min
Delta R.T.: 0.021 min
Response: 6024310
Conc: 40.05 ug/ml



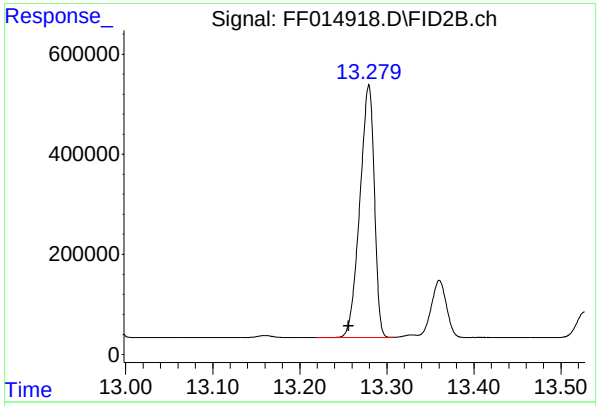
#11 ortho-Terphenyl (SURR)

R.T.: 11.928 min
Delta R.T.: 0.016 min
Response: 6657427
Conc: 41.61 ug/ml



#12 Fluoranthene (C21.85)

R.T.: 12.980 min
Delta R.T.: 0.022 min
Response: 5913086
Conc: 37.52 ug/ml



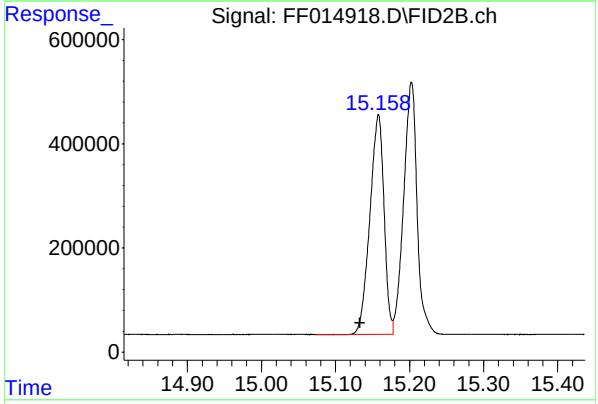
#13 Pyrene (C20.8)

R.T.: 13.279 min
Delta R.T.: 0.023 mi
Response: 5852318
Conc: 37.53 ug/m

Instrument :
FID_F
ClientSampleId :
P001-CF16-01MSD

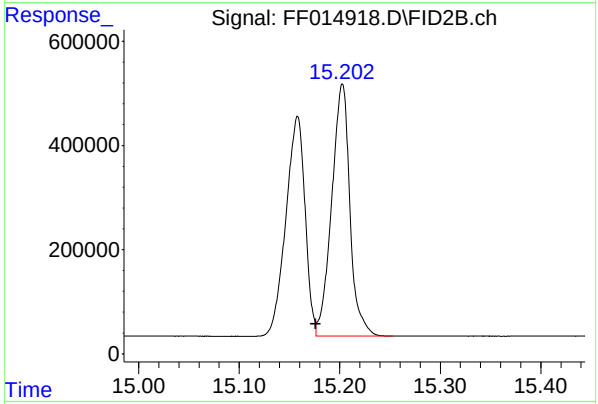
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/06/2024
Supervised By :Ankita Jodhani 11/06/2024



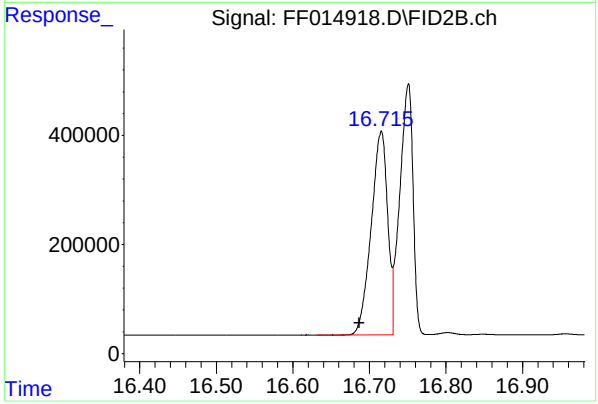
#14 Benzo[a]anthracene (C26.37)

R.T.: 15.158 min
Delta R.T.: 0.025 min
Response: 5614221
Conc: 36.95 ug/ml



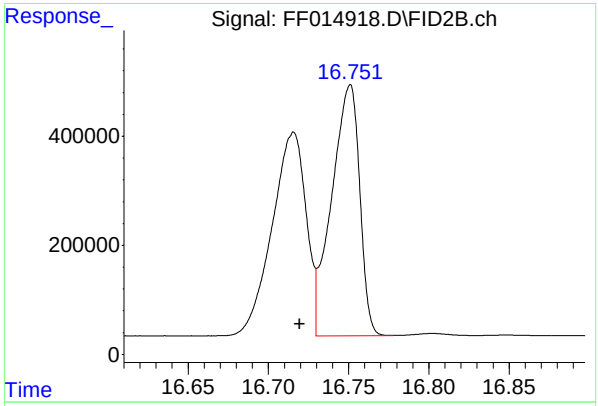
#15 Chrysene (C27.41)

R.T.: 15.202 min
Delta R.T.: 0.026 min
Response: 6113611
Conc: 39.56 ug/ml m



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

R.T.: 16.715 min
Delta R.T.: 0.029 min
Response: 5579669
Conc: 36.50 ug/ml



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

R.T.: 16.751 min
Delta R.T.: 0.031 min
Response: 5544536
Conc: 38.38 ug/ml

Instrument :
FID_F
ClientSampleId :
P001-CF16-01MSD

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/06/2024
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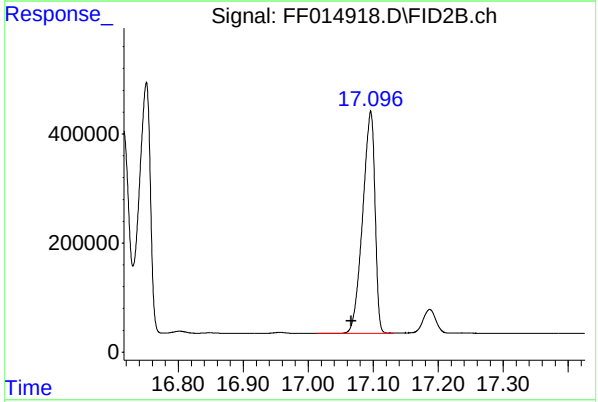
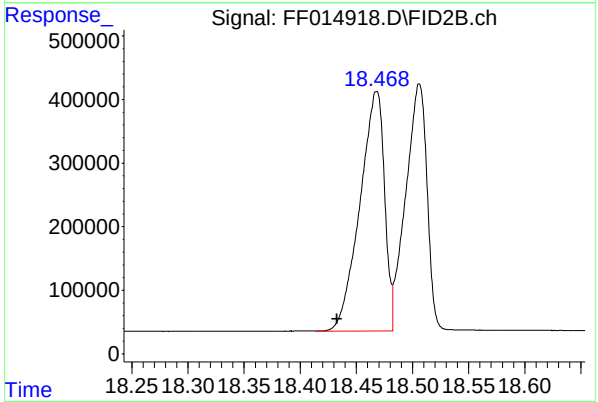


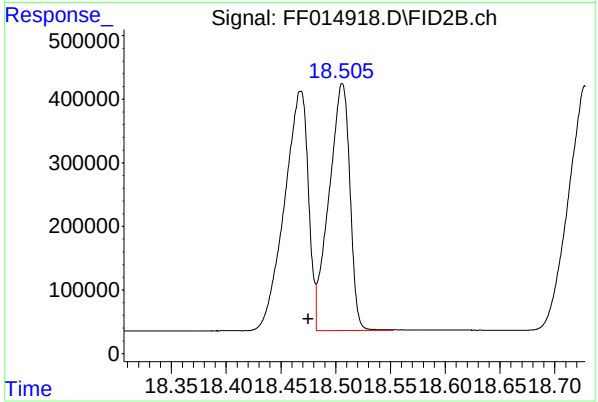
#18 Benzo[a]pyrene (C31.34)

R.T.: 17.096 min
Delta R.T.: 0.030 min
Response: 5368693
Conc: 35.97 ug/ml



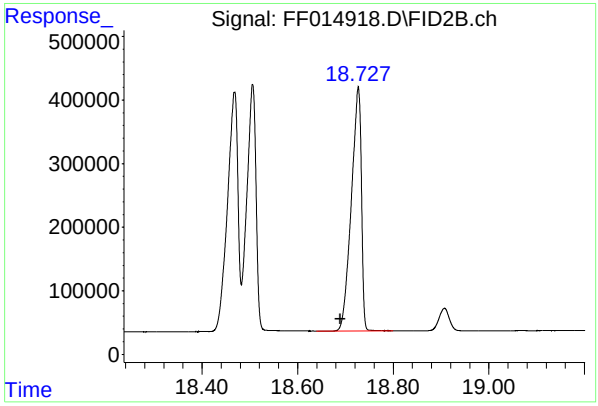
#19 Indeno[1,2,3-cd]pyrene (C35.01)

R.T.: 18.468 min
Delta R.T.: 0.036 min
Response: 5762016
Conc: 42.01 ug/ml m



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

R.T.: 18.505 min
Delta R.T.: 0.030 min
Response: 5141978
Conc: 35.39 ug/ml m



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

R.T.: 18.727 min
Delta R.T.: 0.037 mir
Response: 5647297
Conc: 39.53 ug/m

Instrument :
FID_F
ClientSampleId :
P001-CF16-01MSD

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/06/2024
Supervised By :Ankita Jodhani 11/06/2024

Instrument :
FID_F
ClientSampleId :
P001-CF16-01MSD

rteres

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/06/2024
Supervised By :Ankita Jodhani 11/06/2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF11042
Data File : FF014918.D
Signal(s) : FID2B.ch
Acq On : 04 Nov 2024 17:21
Sample : P4620-27MSD
Misc :
ALS Vial : 73 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 102124.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	4.574	4.540	4.588	BV	63705	604230	9.08%	0.459%
2	4.610	4.588	4.670	VB	563487	5371512	80.68%	4.085%
3	5.272	5.209	5.310	BV	4396	59954	0.90%	0.046%
4	5.508	5.485	5.544	BV	4580	44513	0.67%	0.034%
5	6.273	6.202	6.310	PV	640456	6007739	90.24%	4.568%
6	6.733	6.602	6.782	BB	65888	668965	10.05%	0.509%
7	7.210	7.159	7.227	BV	4390	48918	0.73%	0.037%
8	7.269	7.227	7.319	VV	13407	168273	2.53%	0.128%
9	7.367	7.319	7.440	VB	578272	5691952	85.50%	4.328%
10	7.502	7.440	7.517	BV	1638	17434	0.26%	0.013%
11	7.535	7.517	7.549	PV	2405	24100	0.36%	0.018%
12	7.563	7.549	7.579	VV	1899	18377	0.28%	0.014%
13	7.992	7.960	8.062	PV	635476	6216956	93.38%	4.727%
14	8.558	8.525	8.607	VB	62953	656160	9.86%	0.499%
15	8.667	8.617	8.732	BV	630811	6245459	93.81%	4.749%
16	8.866	8.827	8.897	BV	398219	4036016	60.62%	3.069%
17	8.967	8.933	9.037	VB	646364	6486118	97.43%	4.932%
18	9.284	9.255	9.344	PV	41739	452277	6.79%	0.344%
19	9.362	9.344	9.384	VV	1200	11539	0.17%	0.009%
20	9.755	9.690	9.795	BB	596948	6317964	94.90%	4.804%
21	9.965	9.867	9.985	BV	9294	103809	1.56%	0.079%
22	10.163	10.125	10.217	BB	59270	650521	9.77%	0.495%
23	10.958	10.910	10.979	BV	4616	45364	0.68%	0.034%
24	10.997	10.979	11.055	VB	6923	92509	1.39%	0.070%
25	11.160	11.064	11.192	BV	554143	6114987	91.85%	4.650%
26	11.236	11.192	11.285	VV	561327	6024310	90.49%	4.581%
27	11.441	11.370	11.489	BB	2198	31056	0.47%	0.024%
28	11.542	11.494	11.564	BV	1738	24201	0.36%	0.018%
29	11.606	11.564	11.644	VV	55972	659366	9.90%	0.501%
30	11.928	11.757	11.973	BV	600026	6657427	100.00%	5.062%
31	12.326	12.295	12.350	VV	3587	43973	0.66%	0.033%
32	12.517	12.457	12.614	BB	7944	111463	1.67%	0.085%
33	12.776	12.617	12.817	BB	2521	51557	0.77%	0.039%
34	12.915	12.880	12.943	PV	57025	687411	10.33%	0.523%
35	12.980	12.943	13.029	VB	504468	5913086	88.82%	4.496%
36	13.160	13.064	13.217	BB	4077	49864	0.75%	0.038%

Instrument :
FID_F
ClientSampleId :
P001-CF16-01MSD

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/06/2024
Supervised By :Ankita Jodhani 11/06/2024

rteres

37	13.279	13.219	13.307	BV	503929	5852318	87.91%	4.450%
38	13.360	13.307	13.394	VV	114395	1438356	21	
39	13.527	13.394	13.560	VV	50942	645029	9	
40	13.580	13.560	13.620	VB	1857	24904	0	
41	14.113	14.081	14.155	VB	51043	622190	9	
42	15.158	15.074	15.178	BV	421527	5614221	84	
43	15.202	15.178	15.277	VB	485443	6107140	91.73%	4.644%
44	15.580	15.540	15.612	BB	1746	21151	0.32%	0.016%
45	16.239	16.149	16.315	BB	42910	575417	8.64%	0.438%
46	16.715	16.630	16.731	BV	373785	5579669	83.81%	4.243%
47	16.750	16.731	16.779	VV	459134	5508954	82.75%	4.189%
48	16.802	16.779	16.829	VV	3918	52811	0.79%	0.040%
49	17.096	17.012	17.130	BV	406799	5368693	80.64%	4.082%
50	17.187	17.130	17.220	VV	43621	600290	9.02%	0.456%
51	18.075	18.004	18.115	BB	40222	547979	8.23%	0.417%
52	18.468	18.309	18.483	BV	377427	5769646	86.66%	4.387%
53	18.506	18.483	18.607	VB	389380	5124235	76.97%	3.896%
54	18.727	18.639	18.800	BBA	384834	5647297	84.83%	4.294%

Sum of corrected areas: 131509659

Aromatic EPH 102124.M Tue Nov 05 02:01:22 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

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

Manual Integration Report

Sequence:	FC110424AL	Instrument	FID_c

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
P4620-23MS	FC067616.D	n-Hexatriacontane (C36)	yogesh	11/6/2024 9:22:46 AM	Ankita	11/6/2024 9:39:50	Peak Integrated by Software
20 PPM ALIPHATIC HC	FC067625.D	n-Octacosane (C28)	yogesh	11/6/2024 9:22:47 AM	Ankita	11/6/2024 9:39:51	Peak Integrated by Software
20 PPM ALIPHATIC HC	FC067625.D	n-Tetracontane (C40)	yogesh	11/6/2024 9:22:47 AM	Ankita	11/6/2024 9:39:51	Peak Integrated by Software
20 PPM ALIPHATIC HC	FC067630.D	n-Tetracontane (C40)	yogesh	11/6/2024 9:22:48 AM	Ankita	11/6/2024 9:39:53	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

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

Manual Integration Report

Sequence:	FD110424AR	Instrument	FID_d

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
20 PPM AROMATIC HC	FD048640.D	benzo[b]fluoranthene (C30.41)	yogesh	11/6/2024 9:26:37 AM	Ankita	11/6/2024 9:40:25	Peak Integrated by Software
20 PPM AROMATIC HC	FD048640.D	Bnezo[k]fluoranthene (C30.14)	yogesh	11/6/2024 9:26:37 AM	Ankita	11/6/2024 9:40:25	Peak Integrated by Software
P4620-19	FD048650.D	ortho-Terphenyl (SURR)	yogesh	11/6/2024 9:26:38 AM	Ankita	11/6/2024 9:40:26	Peak Integrated by Software
P4620-23MS	FD048653.D	1,2,3-Trimethylbenzene (C10.1)	yogesh	11/6/2024 9:26:39 AM	Ankita	11/6/2024 9:40:28	Peak Integrated by Software
P4620-23MS	FD048653.D	Benzo[a]anthracene (C26.37)	yogesh	11/6/2024 9:26:39 AM	Ankita	11/6/2024 9:40:28	Peak Integrated by Software
P4620-23MS	FD048653.D	Flouorene (C16.55)	yogesh	11/6/2024 9:26:39 AM	Ankita	11/6/2024 9:40:28	Peak Integrated by Software
P4620-23MS	FD048653.D	Fluoranthene (C21.85)	yogesh	11/6/2024 9:26:39 AM	Ankita	11/6/2024 9:40:28	Peak Integrated by Software
P4620-23MS	FD048653.D	Naphthalene (C11.7)	yogesh	11/6/2024 9:26:39 AM	Ankita	11/6/2024 9:40:28	Peak Integrated by Software
P4620-24MSD	FD048654.D	1,2,3-Trimethylbenzene (C10.1)	yogesh	11/6/2024 9:26:40 AM	Ankita	11/6/2024 9:40:29	Peak Integrated by Software
P4620-24MSD	FD048654.D	Benzo[a]anthracene (C26.37)	yogesh	11/6/2024 9:26:40 AM	Ankita	11/6/2024 9:40:29	Peak Integrated by Software
P4620-24MSD	FD048654.D	Fluoranthene (C21.85)	yogesh	11/6/2024 9:26:40 AM	Ankita	11/6/2024 9:40:29	Peak Integrated by Software
20 PPM AROMATIC HC	FD048657.D	Dibenz[a,h]anthracene (C30.36)	yogesh	11/6/2024 9:26:43 AM	Ankita	11/6/2024 9:40:32	Peak Integrated by Software
20 PPM AROMATIC HC	FD048657.D	ortho-Terphenyl (SURR)	yogesh	11/6/2024 9:26:43 AM	Ankita	11/6/2024 9:40:32	Peak Integrated by Software

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Manual Integration Report

Sequence:	FD110424AR	Instrument	FID_d

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
PB164618BS	FD048659.D	1,2,3-Trimethylbenzene (C10.1)	yogesh	11/6/2024 9:26:43 AM	Ankita	11/6/2024 9:40:33	Peak Integrated by Software
PB164618BS	FD048659.D	Fluoranthene (C21.85)	yogesh	11/6/2024 9:26:43 AM	Ankita	11/6/2024 9:40:33	Peak Integrated by Software
PB164618BS	FD048659.D	Naphthalene (C11.7)	yogesh	11/6/2024 9:26:43 AM	Ankita	11/6/2024 9:40:33	Peak Integrated by Software
20 PPM AROMATIC HC	FD048662.D	Dibenz[a,h]anthracene (C30.36)	yogesh	11/6/2024 9:26:46 AM	Ankita	11/6/2024 9:40:35	Peak Integrated by Software
PB164618BSD	FD048663.D	1,2,3-Trimethylbenzene (C10.1)	yogesh	11/6/2024 9:26:47 AM	Ankita	11/6/2024 9:40:36	Peak Integrated by Software

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Manual Integration Report

Sequence:	FF102124AR	Instrument	FID_f

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
100 PPM AROMATIC HC	FF014714.D	Bnezo[k]fluoranthene (C30.14)	yogesh	10/22/2024 8:32:43 AM	Ankita	10/22/2024 8:58:53	Peak Integrated by Software
100 PPM AROMATIC HC	FF014714.D	Dibenz[a,h]anthracene (C30.36)	yogesh	10/22/2024 8:32:43 AM	Ankita	10/22/2024 8:58:53	Peak Integrated by Software
5 PPM AROMATIC HC	FF014718.D	Phenanthrene (C19.36)	yogesh	10/22/2024 8:32:44 AM	Ankita	10/22/2024 8:58:54	Peak Integrated by Software

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Manual Integration Report

Sequence:	FF110424AR	Instrument	FID_f

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
20 PPM AROMATIC HC	FF014905.D	Bnezo[k]fluoranthene (C30.14)	yogesh	11/6/2024 9:19:21 AM	Ankita	11/6/2024 9:32:55	Peak Integrated by Software
20 PPM AROMATIC HC	FF014905.D	Dibenz[a,h]anthracene (C30.36)	yogesh	11/6/2024 9:19:21 AM	Ankita	11/6/2024 9:32:55	Peak Integrated by Software
P4620-26MS	FF014917.D	Bnezo[k]fluoranthene (C30.14)	yogesh	11/6/2024 9:19:08 AM	Ankita	11/6/2024 9:32:56	Peak Integrated by Software
P4620-26MS	FF014917.D	Chrysene (C27.41)	yogesh	11/6/2024 9:19:08 AM	Ankita	11/6/2024 9:32:56	Peak Integrated by Software
P4620-26MS	FF014917.D	Dibenz[a,h]anthracene (C30.36)	yogesh	11/6/2024 9:19:08 AM	Ankita	11/6/2024 9:32:56	Peak Integrated by Software
P4620-26MS	FF014917.D	Indeno[1,2,3-cd]pyrene (C35.01)	yogesh	11/6/2024 9:19:08 AM	Ankita	11/6/2024 9:32:56	Peak Integrated by Software
P4620-27MSD	FF014918.D	Bnezo[k]fluoranthene (C30.14)	yogesh	11/6/2024 9:19:10 AM	Ankita	11/6/2024 9:32:58	Peak Integrated by Software
P4620-27MSD	FF014918.D	Chrysene (C27.41)	yogesh	11/6/2024 9:19:10 AM	Ankita	11/6/2024 9:32:58	Peak Integrated by Software
P4620-27MSD	FF014918.D	Dibenz[a,h]anthracene (C30.36)	yogesh	11/6/2024 9:19:10 AM	Ankita	11/6/2024 9:32:58	Peak Integrated by Software
P4620-27MSD	FF014918.D	Indeno[1,2,3-cd]pyrene (C35.01)	yogesh	11/6/2024 9:19:10 AM	Ankita	11/6/2024 9:32:58	Peak Integrated by Software
PB164637BS	FF014921.D	Bnezo[k]fluoranthene (C30.14)	yogesh	11/6/2024 9:19:12 AM	Ankita	11/6/2024 9:32:59	Peak Integrated by Software
PB164637BS	FF014921.D	Chrysene (C27.41)	yogesh	11/6/2024 9:19:12 AM	Ankita	11/6/2024 9:32:59	Peak Integrated by Software
PB164637BS	FF014921.D	Dibenz[a,h]anthracene (C30.36)	yogesh	11/6/2024 9:19:12 AM	Ankita	11/6/2024 9:32:59	Peak Integrated by Software

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Manual Integration Report

Sequence:	FF110424AR	Instrument	FID_f

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
20 PPM AROMATIC HC	FF014924.D	Bnezo[k]fluoranthene (C30.14)	yogesh	11/6/2024 9:19:13 AM	Ankita	11/6/2024 9:33:00	Peak Integrated by Software
20 PPM AROMATIC HC	FF014924.D	Dibenz[a,h]anthracene (C30.36)	yogesh	11/6/2024 9:19:13 AM	Ankita	11/6/2024 9:33:00	Peak Integrated by Software

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Manual Integration Report

Sequence:	FG102124AL	Instrument	FID_g

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

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Manual Integration Report

Sequence:	FG110424AL	Instrument	FID_g

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
P4620-26MS	FG014647.D	n-Decane (C10)	yogesh	11/6/2024 9:18:48 AM	Ankita	11/6/2024 9:31:13	Peak Integrated by Software
P4620-27MSD	FG014648.D	n-Decane (C10)	yogesh	11/6/2024 9:18:49 AM	Ankita	11/6/2024 9:31:15	Peak Integrated by Software

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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	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 # FC110424AL

Review By	yogesh	Review On	11/6/2024 9:23:07 AM		
Supervise By	Ankita	Supervise On	11/6/2024 9:39:57 AM		
SubDirectory	FC110424AL	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	FC067601.D	04 Nov 2024 09:16	YP/AJ	Ok
2	I.BLK	FC067602.D	04 Nov 2024 09:52	YP/AJ	Ok
3	20 PPM ALIPHATIC HC STD	FC067603.D	04 Nov 2024 10:28	YP/AJ	Ok
4	P4620-01	FC067604.D	04 Nov 2024 16:38	YP/AJ	Ok
5	P4620-03	FC067605.D	04 Nov 2024 17:14	YP/AJ	Ok
6	P4620-05	FC067606.D	04 Nov 2024 17:50	YP/AJ	Ok
7	P4620-07	FC067607.D	04 Nov 2024 18:26	YP/AJ	Ok
8	P4620-09	FC067608.D	04 Nov 2024 19:02	YP/AJ	Ok
9	P4620-11	FC067609.D	04 Nov 2024 19:39	YP/AJ	Ok
10	P4620-13	FC067610.D	04 Nov 2024 20:16	YP/AJ	Not Ok
11	P4620-15	FC067611.D	04 Nov 2024 20:52	YP/AJ	Ok
12	P4620-17	FC067612.D	04 Nov 2024 21:29	YP/AJ	Ok
13	P4620-19	FC067613.D	04 Nov 2024 22:05	YP/AJ	Ok
14	P4620-22	FC067614.D	04 Nov 2024 22:42	YP/AJ	Ok
15	P4620-22D	FC067615.D	04 Nov 2024 23:19	YP/AJ	Ok
16	P4620-23MS	FC067616.D	04 Nov 2024 23:56	YP/AJ	Ok,M
17	P4620-24MSD	FC067617.D	05 Nov 2024 00:32	YP/AJ	Ok
18	P4620-29	FC067618.D	05 Nov 2024 01:09	YP/AJ	Not Ok
19	I.BLK	FC067619.D	05 Nov 2024 01:46	YP/AJ	Ok
20	20 PPM ALIPHATIC HC STD	FC067620.D	05 Nov 2024 02:22	YP/AJ	Ok
21	PB164618BL	FC067621.D	05 Nov 2024 02:59	YP/AJ	Ok

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Instrument ID: FID_C

Daily Analysis Runlog For Sequence/QCBatch ID # FC110424AL

Review By	yogesh	Review On	11/6/2024 9:23:07 AM		
Supervise By	Ankita	Supervise On	11/6/2024 9:39:57 AM		
SubDirectory	FC110424AL	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	PB164618BS	FC067622.D	05 Nov 2024 03:35	YP/AJ	Ok
23	PB164618BSD	FC067623.D	05 Nov 2024 04:11	YP/AJ	Not Ok
24	I.BLK	FC067624.D	05 Nov 2024 04:48	YP/AJ	Ok
25	20 PPM ALIPHATIC HC STD	FC067625.D	05 Nov 2024 05:24	YP/AJ	Ok,M
26	PB164618BSD	FC067626.D	05 Nov 2024 09:04	YP/AJ	Ok
27	P4620-13	FC067627.D	05 Nov 2024 09:41	YP/AJ	Ok
28	P4620-29	FC067628.D	05 Nov 2024 10:18	YP/AJ	Ok
29	I.BLK	FC067629.D	05 Nov 2024 11:07	YP/AJ	Ok
30	20 PPM ALIPHATIC HC STD	FC067630.D	05 Nov 2024 11:43	YP/AJ	Ok,M

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 # FD110424AR

Review By	yogesh	Review On	11/6/2024 9:27:24 AM		
Supervise By	Ankita	Supervise On	11/6/2024 9:40:40 AM		
SubDirectory	FD110424AR	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	FD048638.D	04 Nov 2024 09:16	YP/AJ	Ok
2	I.BLK	FD048639.D	04 Nov 2024 09:52	YP/AJ	Ok
3	20 PPM AROMATIC HC STD	FD048640.D	04 Nov 2024 10:28	YP/AJ	Ok,M
4	P4620-01	FD048641.D	04 Nov 2024 16:38	YP/AJ	Ok
5	P4620-03	FD048642.D	04 Nov 2024 17:14	YP/AJ	Ok
6	P4620-05	FD048643.D	04 Nov 2024 17:50	YP/AJ	Ok
7	P4620-07	FD048644.D	04 Nov 2024 18:26	YP/AJ	Ok
8	P4620-09	FD048645.D	04 Nov 2024 19:02	YP/AJ	Ok
9	P4620-11	FD048646.D	04 Nov 2024 19:39	YP/AJ	Ok
10	P4620-13	FD048647.D	04 Nov 2024 20:16	YP/AJ	Ok
11	P4620-15	FD048648.D	04 Nov 2024 20:52	YP/AJ	Ok
12	P4620-17	FD048649.D	04 Nov 2024 21:29	YP/AJ	Ok
13	P4620-19	FD048650.D	04 Nov 2024 22:05	YP/AJ	Ok,M
14	P4620-22	FD048651.D	04 Nov 2024 22:42	YP/AJ	Ok
15	P4620-22D	FD048652.D	04 Nov 2024 23:19	YP/AJ	Ok
16	P4620-23MS	FD048653.D	04 Nov 2024 23:56	YP/AJ	Ok,M
17	P4620-24MSD	FD048654.D	05 Nov 2024 00:32	YP/AJ	Ok,M
18	P4620-29	FD048655.D	05 Nov 2024 01:09	YP/AJ	Ok
19	I.BLK	FD048656.D	05 Nov 2024 01:46	YP/AJ	Ok
20	20 PPM AROMATIC HC STD	FD048657.D	05 Nov 2024 02:22	YP/AJ	Ok,M
21	PB164618BL	FD048658.D	05 Nov 2024 02:59	YP/AJ	Ok

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Instrument ID: FID_D

Daily Analysis Runlog For Sequence/QCBatch ID # FD110424AR

Review By	yogesh	Review On	11/6/2024 9:27:24 AM		
Supervise By	Ankita	Supervise On	11/6/2024 9:40:40 AM		
SubDirectory	FD110424AR	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	PB164618BS	FD048659.D	05 Nov 2024 03:35	YP/AJ	Ok,M
23	PB164618BSD	FD048660.D	05 Nov 2024 04:11	YP/AJ	Not Ok
24	I.BLK	FD048661.D	05 Nov 2024 04:48	YP/AJ	Ok
25	20 PPM AROMATIC HC STD	FD048662.D	05 Nov 2024 05:24	YP/AJ	Ok,M
26	PB164618BSD	FD048663.D	05 Nov 2024 09:04	YP/AJ	Ok,M
27	I.BLK	FD048664.D	05 Nov 2024 09:41	YP/AJ	Ok
28	20 PPM AROMATIC HC STD	FD048665.D	05 Nov 2024 10:18	YP/AJ	Ok

M : Manual Integration

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Instrument ID: FID_F

Daily Analysis Runlog For Sequence/QCBatch ID # FF102124AR

Review By	yogesh	Review On	10/21/2024 3:16:22 PM		
Supervise By	Ankita	Supervise On	10/22/2024 8:58:59 AM		
SubDirectory	FF102124AR	HP Acquire Method		HP Processing Method	FF102124AR

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	FF014712.D	21 Oct 2024 18:42	YP\AJ	Ok
2	I.BLK	FF014713.D	21 Oct 2024 19:11	YP\AJ	Ok
3	100 PPM AROMATIC HC STD1	FF014714.D	21 Oct 2024 19:40	YP\AJ	Ok,M
4	50 PPM AROMATIC HC STD2	FF014715.D	21 Oct 2024 20:09	YP\AJ	Ok
5	20 PPM AROMATIC HC STD3	FF014716.D	21 Oct 2024 20:38	YP\AJ	Ok
6	10 PPM AROMATIC HC STD4	FF014717.D	21 Oct 2024 21:06	YP\AJ	Ok
7	5 PPM AROMATIC HC STD5	FF014718.D	21 Oct 2024 21:36	YP\AJ	Ok,M
8	20 PPM AROMATIC HC STD ICV	FF014719.D	21 Oct 2024 22:04	YP\AJ	Ok
9	I.BLK	FF014720.D	21 Oct 2024 23:03	YP\AJ	Ok
10	20 PPM AROMATIC HC STD	FF014721.D	21 Oct 2024 23:31	YP\AJ	Ok

M : Manual Integration

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Instrument ID: FID_F

Daily Analysis Runlog For Sequence/QCBatch ID # FF110424AR

Review By	yogesh	Review On	11/6/2024 9:19:27 AM		
Supervise By	Ankita	Supervise On	11/6/2024 9:33:04 AM		
SubDirectory	FF110424AR	HP Acquire Method		HP Processing Method	FF102124AL

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	FF014903.D	04 Nov 2024 09:46	YP\AJ	Ok
2	I.BLK	FF014904.D	04 Nov 2024 10:14	YP\AJ	Ok
3	20 PPM AROMATIC HC STD	FF014905.D	04 Nov 2024 10:42	YP\AJ	Ok,M
4	P4620-02	FF014906.D	04 Nov 2024 11:43	YP\AJ	Ok
5	P4620-04	FF014907.D	04 Nov 2024 12:11	YP\AJ	Ok
6	P4620-06	FF014908.D	04 Nov 2024 12:39	YP\AJ	Ok
7	P4620-08	FF014909.D	04 Nov 2024 13:07	YP\AJ	Ok
8	P4620-10	FF014910.D	04 Nov 2024 13:35	YP\AJ	Ok
9	P4620-12	FF014911.D	04 Nov 2024 14:04	YP\AJ	Ok
10	P4620-14	FF014912.D	04 Nov 2024 14:32	YP\AJ	Ok
11	P4620-16	FF014913.D	04 Nov 2024 15:00	YP\AJ	Ok
12	P4620-18	FF014914.D	04 Nov 2024 15:28	YP\AJ	Ok
13	P4620-20	FF014915.D	04 Nov 2024 15:57	YP\AJ	Ok
14	P4620-25	FF014916.D	04 Nov 2024 16:25	YP\AJ	Ok
15	P4620-26MS	FF014917.D	04 Nov 2024 16:53	YP\AJ	Ok,M
16	P4620-27MSD	FF014918.D	04 Nov 2024 17:21	YP\AJ	Ok,M
17	P4620-30	FF014919.D	04 Nov 2024 17:50	YP\AJ	Ok
18	PB164637BL	FF014920.D	04 Nov 2024 18:18	YP\AJ	Ok
19	PB164637BS	FF014921.D	04 Nov 2024 18:46	YP\AJ	Ok,M
20	PB164637TB	FF014922.D	04 Nov 2024 19:14	YP\AJ	Ok

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Instrument ID: FID_F

Daily Analysis Runlog For Sequence/QCBatch ID # FF110424AR

Review By	yogesh	Review On	11/6/2024 9:19:27 AM		
Supervise By	Ankita	Supervise On	11/6/2024 9:33:04 AM		
SubDirectory	FF110424AR	HP Acquire Method		HP Processing Method	FF102124AL

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	

21	I.BLK	FF014923.D	04 Nov 2024 19:43	YP\AJ	Ok
22	20 PPM AROMATIC HC STD	FF014924.D	04 Nov 2024 20:11	YP\AJ	Ok,M

M : Manual Integration

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Instrument ID: FID_G

Daily Analysis Runlog For Sequence/QCBatch ID # FG102124AL

Review By	yogesh	Review On	10/21/2024 4:07:24 PM		
Supervise By	Ankita	Supervise On	10/22/2024 9:03:41 AM		
SubDirectory	FG102124AL	HP Acquire Method		HP Processing Method	FG102124AL

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	FG014469.D	22 Oct 2024 00:00	YP\AJ	Ok
2	I.BLK	FG014470.D	22 Oct 2024 00:29	YP\AJ	Ok
3	100 PPM ALIPHATIC HC STD1	FG014471.D	22 Oct 2024 00:58	YP\AJ	Ok
4	50 PPM ALIPHATIC HC STD2	FG014472.D	22 Oct 2024 01:27	YP\AJ	Ok
5	20 PPM ALIPHATIC HC STD3	FG014473.D	22 Oct 2024 01:56	YP\AJ	Ok
6	10 PPM ALIPHATIC HC STD4	FG014474.D	22 Oct 2024 02:25	YP\AJ	Ok
7	5 PPM ALIPHATIC HC STD5	FG014475.D	22 Oct 2024 02:54	YP\AJ	Ok
8	20 PPM ALIPHATIC HC STD ICV	FG014476.D	22 Oct 2024 03:23	YP\AJ	Ok
9	I.BLK	FG014477.D	22 Oct 2024 04:21	YP\AJ	Ok
10	20 PPM ALIPHATIC HC STD	FG014478.D	22 Oct 2024 04:50	YP\AJ	Ok

M : Manual Integration

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Instrument ID: FID_G

Daily Analysis Runlog For Sequence/QCBatch ID # FG110424AL

Review By	yogesh	Review On	11/6/2024 9:18:58 AM		
Supervise By	Ankita	Supervise On	11/6/2024 9:32:44 AM		
SubDirectory	FG110424AL	HP Acquire Method		HP Processing Method	FG102124AL

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	FG014633.D	04 Nov 2024 09:46	YP\AJ	Ok
2	I.BLK	FG014634.D	04 Nov 2024 10:14	YP\AJ	Ok
3	20 PPM ALIPHATIC HC STD	FG014635.D	04 Nov 2024 10:42	YP\AJ	Ok
4	P4620-02	FG014636.D	04 Nov 2024 11:43	YP\AJ	Ok
5	P4620-04	FG014637.D	04 Nov 2024 12:11	YP\AJ	Ok
6	P4620-06	FG014638.D	04 Nov 2024 12:39	YP\AJ	Ok
7	P4620-08	FG014639.D	04 Nov 2024 13:07	YP\AJ	Ok
8	P4620-10	FG014640.D	04 Nov 2024 13:35	YP\AJ	Ok
9	P4620-12	FG014641.D	04 Nov 2024 14:04	YP\AJ	Ok
10	P4620-14	FG014642.D	04 Nov 2024 14:32	YP\AJ	Ok
11	P4620-16	FG014643.D	04 Nov 2024 15:00	YP\AJ	Ok
12	P4620-18	FG014644.D	04 Nov 2024 15:28	YP\AJ	Ok
13	P4620-20	FG014645.D	04 Nov 2024 15:57	YP\AJ	Ok
14	P4620-25	FG014646.D	04 Nov 2024 16:25	YP\AJ	Ok
15	P4620-26MS	FG014647.D	04 Nov 2024 16:53	YP\AJ	Ok,M
16	P4620-27MSD	FG014648.D	04 Nov 2024 17:21	YP\AJ	Ok,M
17	P4620-30	FG014649.D	04 Nov 2024 17:50	YP\AJ	Ok
18	PB164637BL	FG014650.D	04 Nov 2024 18:18	YP\AJ	Ok
19	PB164637BS	FG014651.D	04 Nov 2024 18:46	YP\AJ	Ok
20	PB164637TB	FG014652.D	04 Nov 2024 19:14	YP\AJ	Ok

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Instrument ID: FID_G

Daily Analysis Runlog For Sequence/QCBatch ID # FG110424AL

Review By	yogesh	Review On	11/6/2024 9:18:58 AM		
Supervise By	Ankita	Supervise On	11/6/2024 9:32:44 AM		
SubDirectory	FG110424AL	HP Acquire Method		HP Processing Method	FG102124AL

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	

21	I.BLK	FG014653.D	04 Nov 2024 19:43	YP\AJ	Ok
22	20 PPM ALIPHATIC HC STD	FG014654.D	04 Nov 2024 20:11	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 # FC110424AL

Review By	yogesh	Review On	11/6/2024 9:23:07 AM		
Supervise By	Ankita	Supervise On	11/6/2024 9:39:57 AM		
SubDirectory	FC110424AL	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	FC067601.D	04 Nov 2024 09:16		YP/AJ	Ok
2	I.BLK	I.BLK	FC067602.D	04 Nov 2024 09:52		YP/AJ	Ok
3	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FC067603.D	04 Nov 2024 10:28		YP/AJ	Ok
4	P4620-01	P001-CF06-01	FC067604.D	04 Nov 2024 16:38		YP/AJ	Ok
5	P4620-03	P001-CF07-01	FC067605.D	04 Nov 2024 17:14		YP/AJ	Ok
6	P4620-05	P001-CF08-01	FC067606.D	04 Nov 2024 17:50		YP/AJ	Ok
7	P4620-07	P001-CF09-01	FC067607.D	04 Nov 2024 18:26		YP/AJ	Ok
8	P4620-09	P001-CF10-01	FC067608.D	04 Nov 2024 19:02		YP/AJ	Ok
9	P4620-11	P001-CF11-01	FC067609.D	04 Nov 2024 19:39		YP/AJ	Ok
10	P4620-13	P001-CF12-01	FC067610.D	04 Nov 2024 20:16	surrogate fail	YP/AJ	Not Ok
11	P4620-15	P001-CF13-01	FC067611.D	04 Nov 2024 20:52		YP/AJ	Ok
12	P4620-17	P001-CF14-01	FC067612.D	04 Nov 2024 21:29		YP/AJ	Ok
13	P4620-19	P001-CF15-01	FC067613.D	04 Nov 2024 22:05		YP/AJ	Ok
14	P4620-22	P001-CF16-01	FC067614.D	04 Nov 2024 22:42		YP/AJ	Ok
15	P4620-22D	P4620-22D	FC067615.D	04 Nov 2024 23:19		YP/AJ	Ok
16	P4620-23MS	P4620-22MSMS	FC067616.D	04 Nov 2024 23:56	FC067614.D	YP/AJ	Ok,M
17	P4620-24MSD	P4620-22MSDMSD	FC067617.D	05 Nov 2024 00:32	FC067614.D!FC067616.D	YP/AJ	Ok
18	P4620-29	P001-CF16-02	FC067618.D	05 Nov 2024 01:09	surrogate fail	YP/AJ	Not Ok

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Instrument ID: FID_C

Daily Analysis Runlog For Sequence/QCBatch ID # FC110424AL

Review By	yogesh	Review On	11/6/2024 9:23:07 AM		
Supervise By	Ankita	Supervise On	11/6/2024 9:39:57 AM		
SubDirectory	FC110424AL	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	I.BLK	I.BLK	FC067619.D	05 Nov 2024 01:46		YP/AJ	Ok
20	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FC067620.D	05 Nov 2024 02:22		YP/AJ	Ok
21	PB164618BL	PB164618BL	FC067621.D	05 Nov 2024 02:59		YP/AJ	Ok
22	PB164618BS	PB164618BS	FC067622.D	05 Nov 2024 03:35		YP/AJ	Ok
23	PB164618BSD	PB164618BSD	FC067623.D	05 Nov 2024 04:11	injection error	YP/AJ	Not Ok
24	I.BLK	I.BLK	FC067624.D	05 Nov 2024 04:48		YP/AJ	Ok
25	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FC067625.D	05 Nov 2024 05:24		YP/AJ	Ok,M
26	PB164618BSD	PB164618BSD	FC067626.D	05 Nov 2024 09:04		YP/AJ	Ok
27	P4620-13	P001-CF12-01	FC067627.D	05 Nov 2024 09:41		YP/AJ	Ok
28	P4620-29	P001-CF16-02	FC067628.D	05 Nov 2024 10:18		YP/AJ	Ok
29	I.BLK	I.BLK	FC067629.D	05 Nov 2024 11:07		YP/AJ	Ok
30	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FC067630.D	05 Nov 2024 11:43		YP/AJ	Ok,M

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

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Instrument ID: FID_D

Daily Analysis Runlog For Sequence/QCBatch ID # FD110424AR

Review By	yogesh	Review On	11/6/2024 9:27:24 AM		
Supervise By	Ankita	Supervise On	11/6/2024 9:40:40 AM		
SubDirectory	FD110424AR	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	FD048638.D	04 Nov 2024 09:16		YP/AJ	Ok
2	I.BLK	I.BLK	FD048639.D	04 Nov 2024 09:52		YP/AJ	Ok
3	20 PPM AROMATIC HC	20 PPM AROMATIC HC	FD048640.D	04 Nov 2024 10:28		YP/AJ	Ok,M
4	P4620-01	P001-CF06-01	FD048641.D	04 Nov 2024 16:38		YP/AJ	Ok
5	P4620-03	P001-CF07-01	FD048642.D	04 Nov 2024 17:14		YP/AJ	Ok
6	P4620-05	P001-CF08-01	FD048643.D	04 Nov 2024 17:50		YP/AJ	Ok
7	P4620-07	P001-CF09-01	FD048644.D	04 Nov 2024 18:26		YP/AJ	Ok
8	P4620-09	P001-CF10-01	FD048645.D	04 Nov 2024 19:02		YP/AJ	Ok
9	P4620-11	P001-CF11-01	FD048646.D	04 Nov 2024 19:39		YP/AJ	Ok
10	P4620-13	P001-CF12-01	FD048647.D	04 Nov 2024 20:16		YP/AJ	Ok
11	P4620-15	P001-CF13-01	FD048648.D	04 Nov 2024 20:52		YP/AJ	Ok
12	P4620-17	P001-CF14-01	FD048649.D	04 Nov 2024 21:29		YP/AJ	Ok
13	P4620-19	P001-CF15-01	FD048650.D	04 Nov 2024 22:05		YP/AJ	Ok,M
14	P4620-22	P001-CF16-01	FD048651.D	04 Nov 2024 22:42		YP/AJ	Ok
15	P4620-22D	P4620-22D	FD048652.D	04 Nov 2024 23:19		YP/AJ	Ok
16	P4620-23MS	P4620-22MSMS	FD048653.D	04 Nov 2024 23:56	FD048651.D	YP/AJ	Ok,M
17	P4620-24MSD	P4620-22MSDMSD	FD048654.D	05 Nov 2024 00:32	FD048651.D!FD048653.D	YP/AJ	Ok,M
18	P4620-29	P001-CF16-02	FD048655.D	05 Nov 2024 01:09		YP/AJ	Ok

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Instrument ID: FID_D

Daily Analysis Runlog For Sequence/QCBatch ID # FD110424AR

Review By	yogesh	Review On	11/6/2024 9:27:24 AM		
Supervise By	Ankita	Supervise On	11/6/2024 9:40:40 AM		
SubDirectory	FD110424AR	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	FD048656.D	05 Nov 2024 01:46		YP/AJ	Ok
20	20 PPM AROMATIC HC	20 PPM AROMATIC HC	FD048657.D	05 Nov 2024 02:22		YP/AJ	Ok,M
21	PB164618BL	PB164618BL	FD048658.D	05 Nov 2024 02:59		YP/AJ	Ok
22	PB164618BS	PB164618BS	FD048659.D	05 Nov 2024 03:35		YP/AJ	Ok,M
23	PB164618BSD	PB164618BSD	FD048660.D	05 Nov 2024 04:11	injection error	YP/AJ	Not Ok
24	I.BLK	I.BLK	FD048661.D	05 Nov 2024 04:48		YP/AJ	Ok
25	20 PPM AROMATIC HC	20 PPM AROMATIC HC	FD048662.D	05 Nov 2024 05:24		YP/AJ	Ok,M
26	PB164618BSD	PB164618BSD	FD048663.D	05 Nov 2024 09:04		YP/AJ	Ok,M
27	I.BLK	I.BLK	FD048664.D	05 Nov 2024 09:41		YP/AJ	Ok
28	20 PPM AROMATIC HC	20 PPM AROMATIC HC	FD048665.D	05 Nov 2024 10:18		YP/AJ	Ok

M : Manual Integration

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

Instrument ID: FID_F

Daily Analysis Runlog For Sequence/QCBatch ID # FF102124AR

Review By	yogesh	Review On	10/21/2024 3:16:22 PM		
Supervise By	Ankita	Supervise On	10/22/2024 8:58:59 AM		
SubDirectory	FF102124AR	HP Acquire Method		HP Processing Method	FF102124AR

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	FF014712.D	21 Oct 2024 18:42		YP\AJ	Ok
2	I.BLK	I.BLK	FF014713.D	21 Oct 2024 19:11		YP\AJ	Ok
3	100 PPM AROMATIC H	100 PPM AROMATIC H	FF014714.D	21 Oct 2024 19:40		YP\AJ	Ok,M
4	50 PPM AROMATIC HC	50 PPM AROMATIC HC	FF014715.D	21 Oct 2024 20:09		YP\AJ	Ok
5	20 PPM AROMATIC HC	20 PPM AROMATIC HC	FF014716.D	21 Oct 2024 20:38		YP\AJ	Ok
6	10 PPM AROMATIC HC	10 PPM AROMATIC HC	FF014717.D	21 Oct 2024 21:06		YP\AJ	Ok
7	5 PPM AROMATIC HC	5 PPM AROMATIC HC	FF014718.D	21 Oct 2024 21:36		YP\AJ	Ok,M
8	20 PPM AROMATIC HC	20 PPM AROMATIC HC	FF014719.D	21 Oct 2024 22:04		YP\AJ	Ok
9	I.BLK	I.BLK	FF014720.D	21 Oct 2024 23:03		YP\AJ	Ok
10	20 PPM AROMATIC HC	20 PPM AROMATIC HC	FF014721.D	21 Oct 2024 23:31		YP\AJ	Ok

M : Manual Integration

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

Instrument ID: FID_F

Daily Analysis Runlog For Sequence/QCBatch ID # FF110424AR

Review By	yogesh	Review On	11/6/2024 9:19:27 AM		
Supervise By	Ankita	Supervise On	11/6/2024 9:33:04 AM		
SubDirectory	FF110424AR	HP Acquire Method		HP Processing Method	FF102124AL

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	FF014903.D	04 Nov 2024 09:46		YP\AJ	Ok
2	I.BLK	I.BLK	FF014904.D	04 Nov 2024 10:14		YP\AJ	Ok
3	20 PPM AROMATIC HC	20 PPM AROMATIC HC	FF014905.D	04 Nov 2024 10:42		YP\AJ	Ok,M
4	P4620-02	P001-CF06-01	FF014906.D	04 Nov 2024 11:43		YP\AJ	Ok
5	P4620-04	P001-CF07-01	FF014907.D	04 Nov 2024 12:11		YP\AJ	Ok
6	P4620-06	P001-CF08-01	FF014908.D	04 Nov 2024 12:39		YP\AJ	Ok
7	P4620-08	P001-CF09-01	FF014909.D	04 Nov 2024 13:07		YP\AJ	Ok
8	P4620-10	P001-CF10-01	FF014910.D	04 Nov 2024 13:35		YP\AJ	Ok
9	P4620-12	P001-CF11-01	FF014911.D	04 Nov 2024 14:04		YP\AJ	Ok
10	P4620-14	P001-CF12-01	FF014912.D	04 Nov 2024 14:32		YP\AJ	Ok
11	P4620-16	P001-CF13-01	FF014913.D	04 Nov 2024 15:00		YP\AJ	Ok
12	P4620-18	P001-CF14-01	FF014914.D	04 Nov 2024 15:28		YP\AJ	Ok
13	P4620-20	P001-CF15-01	FF014915.D	04 Nov 2024 15:57		YP\AJ	Ok
14	P4620-25	P001-CF16-01	FF014916.D	04 Nov 2024 16:25		YP\AJ	Ok
15	P4620-26MS	P4620-25MSMS	FF014917.D	04 Nov 2024 16:53	FF014916.D	YP\AJ	Ok,M
16	P4620-27MSD	P4620-25MSDMSD	FF014918.D	04 Nov 2024 17:21	FF014916.D!FF014917.D	YP\AJ	Ok,M
17	P4620-30	P001-CF16-02	FF014919.D	04 Nov 2024 17:50		YP\AJ	Ok
18	PB164637BL	PB164637BL	FF014920.D	04 Nov 2024 18:18		YP\AJ	Ok

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

Instrument ID: FID_F

Daily Analysis Runlog For Sequence/QCBatch ID # FF110424AR

Review By	yogesh	Review On	11/6/2024 9:19:27 AM		
Supervise By	Ankita	Supervise On	11/6/2024 9:33:04 AM		
SubDirectory	FF110424AR	HP Acquire Method		HP Processing Method	FF102124AL

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	PB164637BS	PB164637BS	FF014921.D	04 Nov 2024 18:46		YP\AJ	Ok,M
20	PB164637TB	PB164637TB	FF014922.D	04 Nov 2024 19:14		YP\AJ	Ok
21	I.BLK	I.BLK	FF014923.D	04 Nov 2024 19:43		YP\AJ	Ok
22	20 PPM AROMATIC HC STD	20 PPM AROMATIC HC STD	FF014924.D	04 Nov 2024 20:11		YP\AJ	Ok,M

M : Manual Integration

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

Instrument ID: FID_G

Daily Analysis Runlog For Sequence/QCBatch ID # FG102124AL

Review By	yogesh	Review On	10/21/2024 4:07:24 PM		
Supervise By	Ankita	Supervise On	10/22/2024 9:03:41 AM		
SubDirectory	FG102124AL	HP Acquire Method		HP Processing Method	FG102124AL

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	FG014469.D	22 Oct 2024 00:00		YP\AJ	Ok
2	I.BLK	I.BLK	FG014470.D	22 Oct 2024 00:29		YP\AJ	Ok
3	100 PPM ALIPHATIC H	100 PPM ALIPHATIC H	FG014471.D	22 Oct 2024 00:58		YP\AJ	Ok
4	50 PPM ALIPHATIC HC	50 PPM ALIPHATIC HC	FG014472.D	22 Oct 2024 01:27		YP\AJ	Ok
5	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FG014473.D	22 Oct 2024 01:56		YP\AJ	Ok
6	10 PPM ALIPHATIC HC	10 PPM ALIPHATIC HC	FG014474.D	22 Oct 2024 02:25		YP\AJ	Ok
7	5 PPM ALIPHATIC HC	5 PPM ALIPHATIC HC	FG014475.D	22 Oct 2024 02:54		YP\AJ	Ok
8	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FG014476.D	22 Oct 2024 03:23		YP\AJ	Ok
9	I.BLK	I.BLK	FG014477.D	22 Oct 2024 04:21		YP\AJ	Ok
10	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FG014478.D	22 Oct 2024 04:50		YP\AJ	Ok

M : Manual Integration

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

Instrument ID: FID_G

Daily Analysis Runlog For Sequence/QCBatch ID # FG110424AL

Review By	yogesh	Review On	11/6/2024 9:18:58 AM		
Supervise By	Ankita	Supervise On	11/6/2024 9:32:44 AM		
SubDirectory	FG110424AL	HP Acquire Method		HP Processing Method	FG102124AL

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	FG014633.D	04 Nov 2024 09:46		YP\AJ	Ok
2	I.BLK	I.BLK	FG014634.D	04 Nov 2024 10:14		YP\AJ	Ok
3	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FG014635.D	04 Nov 2024 10:42		YP\AJ	Ok
4	P4620-02	P001-CF06-01	FG014636.D	04 Nov 2024 11:43		YP\AJ	Ok
5	P4620-04	P001-CF07-01	FG014637.D	04 Nov 2024 12:11		YP\AJ	Ok
6	P4620-06	P001-CF08-01	FG014638.D	04 Nov 2024 12:39		YP\AJ	Ok
7	P4620-08	P001-CF09-01	FG014639.D	04 Nov 2024 13:07		YP\AJ	Ok
8	P4620-10	P001-CF10-01	FG014640.D	04 Nov 2024 13:35		YP\AJ	Ok
9	P4620-12	P001-CF11-01	FG014641.D	04 Nov 2024 14:04		YP\AJ	Ok
10	P4620-14	P001-CF12-01	FG014642.D	04 Nov 2024 14:32		YP\AJ	Ok
11	P4620-16	P001-CF13-01	FG014643.D	04 Nov 2024 15:00		YP\AJ	Ok
12	P4620-18	P001-CF14-01	FG014644.D	04 Nov 2024 15:28		YP\AJ	Ok
13	P4620-20	P001-CF15-01	FG014645.D	04 Nov 2024 15:57		YP\AJ	Ok
14	P4620-25	P001-CF16-01	FG014646.D	04 Nov 2024 16:25		YP\AJ	Ok
15	P4620-26MS	P4620-25MSMS	FG014647.D	04 Nov 2024 16:53	FG014646.D	YP\AJ	Ok,M
16	P4620-27MSD	P4620-25MSDMSD	FG014648.D	04 Nov 2024 17:21	FG014646.D!FG014647.D	YP\AJ	Ok,M
17	P4620-30	P001-CF16-02	FG014649.D	04 Nov 2024 17:50		YP\AJ	Ok
18	PB164637BL	PB164637BL	FG014650.D	04 Nov 2024 18:18		YP\AJ	Ok

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

Instrument ID: FID_G

Daily Analysis Runlog For Sequence/QCBatch ID # FG110424AL

Review By	yogesh	Review On	11/6/2024 9:18:58 AM		
Supervise By	Ankita	Supervise On	11/6/2024 9:32:44 AM		
SubDirectory	FG110424AL	HP Acquire Method		HP Processing Method	FG102124AL

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	PB164637BS	PB164637BS	FG014651.D	04 Nov 2024 18:46		YP\AJ	Ok
20	PB164637TB	PB164637TB	FG014652.D	04 Nov 2024 19:14		YP\AJ	Ok
21	I.BLK	I.BLK	FG014653.D	04 Nov 2024 19:43		YP\AJ	Ok
22	20 PPM ALIPHATIC HC STD	20 PPM ALIPHATIC HC STD	FG014654.D	04 Nov 2024 20:11		YP\AJ	Ok

M : Manual Integration

PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 10/31/2024

OVENTEMP IN Celsius(°C): 107
Time IN: 17:00
In Date: 10/30/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:00
Out Date: 10/31/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC: LB133204

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
P4615-01	B-131-1-SB01	29	1.15	8.81	9.96	8.81	86.9	
P4615-02	B-131-2-SB01	30	1.15	8.80	9.95	8.63	85.0	
P4615-03	B-131-3-SB01	31	1.17	8.55	9.72	8.52	86.0	
P4620-01	P001-CF06-01	1	1.15	8.40	9.55	9.15	95.2	
P4620-02	P001-CF06-01	2	1.18	8.50	9.68	9.24	94.8	
P4620-03	P001-CF07-01	3	1.15	8.76	9.91	9.52	95.5	
P4620-04	P001-CF07-01	4	1.18	8.51	9.69	9.3	95.4	
P4620-05	P001-CF08-01	5	1.14	8.63	9.77	9.35	95.1	
P4620-06	P001-CF08-01	6	1.18	8.74	9.92	9.52	95.4	
P4620-07	P001-CF09-01	7	1.11	8.72	9.83	9.41	95.2	
P4620-08	P001-CF09-01	8	1.14	8.59	9.73	9.31	95.1	
P4620-09	P001-CF10-01	9	1.15	8.36	9.51	9.11	95.2	
P4620-10	P001-CF10-01	10	1.12	8.80	9.92	9.52	95.5	
P4620-11	P001-CF11-01	11	1.15	8.82	9.97	9.53	95.0	
P4620-12	P001-CF11-01	12	1.15	8.30	9.45	9.11	95.9	
P4620-13	P001-CF12-01	13	1.15	8.56	9.71	9.32	95.4	
P4620-14	P001-CF12-01	14	1.14	8.79	9.93	9.47	94.8	
P4620-15	P001-CF13-01	15	1.17	8.68	9.85	9.42	95.0	
P4620-16	P001-CF13-01	16	1.15	8.37	9.52	9.13	95.3	
P4620-17	P001-CF14-01	17	1.18	8.54	9.72	9.32	95.3	
P4620-18	P001-CF14-01	18	1.19	8.53	9.72	9.37	95.9	
P4620-19	P001-CF15-01	19	1.17	8.60	9.77	9.38	95.5	
P4620-20	P001-CF15-01	20	1.15	8.81	9.96	9.22	91.6	
P4620-22	P001-CF16-01	21	1.15	8.51	9.66	9.3	95.8	
P4620-23	P4620-22MS	22	1.15	8.51	9.66	9.3	95.8	
P4620-24	P4620-22MSD	23	1.15	8.51	9.66	9.3	95.8	
P4620-25	P001-CF16-01	24	1.15	8.69	9.84	9.46	95.6	
P4620-26	P4620-25MS	25	1.15	8.69	9.84	9.46	95.6	

PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 10/31/2024

OVENTEMP IN Celsius(°C): 107
Time IN: 17:00
In Date: 10/30/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:00
Out Date: 10/31/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC: LB133204

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
P4620-27	P4620-25MSD	26	1.15	8.69	9.84	9.46	95.6	
P4620-29	P001-CF16-02	27	1.15	8.59	9.74	9.33	95.2	
P4620-30	P001-CF16-02	28	1.12	8.70	9.82	9.45	95.7	
P4639-01	EO-01-103024	32	1.17	8.60	9.77	9.24	93.8	
P4639-02	EO-01-103024-E2	33	1.16	8.50	9.66	8.93	91.4	
P4639-03	EO-02-103024	34	1.15	8.40	9.55	8.75	90.5	
P4639-04	EO-02-103024-E2	35	1.18	8.50	9.68	8.79	89.5	
P4640-01	MH-3	36	1.18	8.57	9.75	8.67	87.4	
P4640-02	MH-3-EPH	37	1.15	8.84	9.99	8.78	86.3	
P4640-03	MH-3-VOC	38	1.17	8.40	9.57	8.39	86.0	

$$\% \text{ Solid} = \frac{(C-A) * 100}{(B-A)}$$

WORKLIST(Hardcopy Internal Chain)

NB 133204

WorkList Name : %1-103024 **WorkList ID :** 184927 **Department :** Wet-Chemistry **Date :** 10-30-2024 08:17:15

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4615-01	B-131-1-SB01	Solid	Percent Solids	Cool 4 deg C	PORT06	K51	10/29/2024	Chemtech -SO
P4615-02	B-131-2-SB01	Solid	Percent Solids	Cool 4 deg C	PORT06	K51	10/29/2024	Chemtech -SO
P4615-03	B-131-3-SB01	Solid	Percent Solids	Cool 4 deg C	PORT06	K51	10/29/2024	Chemtech -SO
P4620-01	P001-CF06-01	Solid	Percent Solids	Cool 4 deg C	ROYF02	K41	10/29/2024	Chemtech -SO
P4620-02	P001-CF06-01	Solid	Percent Solids	Cool 4 deg C	ROYF02	K41	10/29/2024	Chemtech -SO
P4620-03	P001-CF07-01	Solid	Percent Solids	Cool 4 deg C	ROYF02	K41	10/29/2024	Chemtech -SO
P4620-04	P001-CF07-01	Solid	Percent Solids	Cool 4 deg C	ROYF02	K41	10/29/2024	Chemtech -SO
P4620-05	P001-CF08-01	Solid	Percent Solids	Cool 4 deg C	ROYF02	K41	10/29/2024	Chemtech -SO
P4620-06	P001-CF08-01	Solid	Percent Solids	Cool 4 deg C	ROYF02	K41	10/29/2024	Chemtech -SO
P4620-07	P001-CF09-01	Solid	Percent Solids	Cool 4 deg C	ROYF02	K41	10/29/2024	Chemtech -SO
P4620-08	P001-CF09-01	Solid	Percent Solids	Cool 4 deg C	ROYF02	K41	10/29/2024	Chemtech -SO
P4620-09	P001-CF10-01	Solid	Percent Solids	Cool 4 deg C	ROYF02	K41	10/29/2024	Chemtech -SO
P4620-10	P001-CF10-01	Solid	Percent Solids	Cool 4 deg C	ROYF02	K41	10/29/2024	Chemtech -SO
P4620-11	P001-CF11-01	Solid	Percent Solids	Cool 4 deg C	ROYF02	K41	10/29/2024	Chemtech -SO
P4620-12	P001-CF11-01	Solid	Percent Solids	Cool 4 deg C	ROYF02	K41	10/29/2024	Chemtech -SO
P4620-13	P001-CF12-01	Solid	Percent Solids	Cool 4 deg C	ROYF02	K41	10/29/2024	Chemtech -SO
P4620-14	P001-CF12-01	Solid	Percent Solids	Cool 4 deg C	ROYF02	K41	10/29/2024	Chemtech -SO
P4620-15	P001-CF13-01	Solid	Percent Solids	Cool 4 deg C	ROYF02	K41	10/29/2024	Chemtech -SO
P4620-16	P001-CF13-01	Solid	Percent Solids	Cool 4 deg C	ROYF02	K41	10/29/2024	Chemtech -SO
P4620-17	P001-CF14-01	Solid	Percent Solids	Cool 4 deg C	ROYF02	K41	10/29/2024	Chemtech -SO
P4620-18	P001-CF14-01	Solid	Percent Solids	Cool 4 deg C	ROYF02	K41	10/29/2024	Chemtech -SO

Date/Time 10/30/24 1530

Raw Sample Received by:

Raw Sample Relinquished by: CP SM

Date/Time 10/30/24 17:10

Raw Sample Received by: CP SM

Raw Sample Relinquished by:

WORKLIST(Hardcopy Internal Chain)

133204

WorkList Name : %1-103024 **WorkList ID :** 184927 **Department :** Wet-Chemistry **Date :** 10-30-2024 08:17:15

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4620-19	P001-CF15-01	Solid	Percent Solids	Cool 4 deg C	ROYF02	K41	10/29/2024	Chemtech -SO
P4620-20	P001-CF15-01	Solid	Percent Solids	Cool 4 deg C	ROYF02	K41	10/29/2024	Chemtech -SO
P4620-22	P001-CF16-01	Solid	Percent Solids	Cool 4 deg C	ROYF02	K41	10/29/2024	Chemtech -SO
P4620-23	P4620-22MS	Solid	Percent Solids	Cool 4 deg C	ROYF02	K41	10/29/2024	Chemtech -SO
P4620-24	P4620-22MSD	Solid	Percent Solids	Cool 4 deg C	ROYF02	K41	10/29/2024	Chemtech -SO
P4620-25	P001-CF16-01	Solid	Percent Solids	Cool 4 deg C	ROYF02	K41	10/29/2024	Chemtech -SO
P4620-26	P4620-25MS	Solid	Percent Solids	Cool 4 deg C	ROYF02	K41	10/29/2024	Chemtech -SO
P4620-27	P4620-25MSD	Solid	Percent Solids	Cool 4 deg C	ROYF02	K41	10/29/2024	Chemtech -SO
P4620-29	P001-CF16-02	Solid	Percent Solids	Cool 4 deg C	ROYF02	K41	10/29/2024	Chemtech -SO
P4620-30	P001-CF16-02	Solid	Percent Solids	Cool 4 deg C	ROYF02	K41	10/29/2024	Chemtech -SO
P4639-01	EO-01-103024	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/30/2024	Chemtech -SO
P4639-02	EO-01-103024-E2	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/30/2024	Chemtech -SO
P4639-03	EO-02-103024	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/30/2024	Chemtech -SO
P4639-04	EO-02-103024-E2	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/30/2024	Chemtech -SO
P4640-01	MH-3	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/30/2024	Chemtech -SO
P4640-02	MH-3-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/30/2024	Chemtech -SO
P4640-03	MH-3-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/30/2024	Chemtech -SO

Date/Time 10/30/24 15:30
Raw Sample Received by: BD WEC
Raw Sample Relinquished by: CP SM

Date/Time 10/30/24 17:16
Raw Sample Received by: CP SM
Raw Sample Relinquished by: BD WEC

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PB164618

SOP ID:	MNJDEP-EPH-7				
Clean Up SOP #:	N/A			**Extraction Start Date :**	11/03/2024
Matrix :	Solid			**Extraction Start Time :**	08:45
Weigh By:	RJ	**Extraction By:**	RJ	**Extraction End Date :**	11/03/2024
Balance check:	RJ	**Filter By:**	RJ	**Extraction End Time :**	16:30
Balance ID:	EX-SC-2	**pH Meter ID:**	N/A	**Concentration By:**	RS
pH Strip Lot#:	N/A	**Hood ID:**	3,7	**Supervisor By :**	rajesh

Extraction Method: ☐ Seperatory Funnel ☐ Continious Liquid/Liquid ☐ Sonication ☐ Waste Dilution ☑ Soxhlet

Standared Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Surrogate	1.0ML	100 PPM	PP23934
Fractionation Surrogate	1.0ML	100 PPM	PP23927
Spike Sol 1	1.0ML	100 PPM	PP23916
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
MeCl2/Acetone/1:1	N/A	EP2538
Baked Na2SO4	N/A	EP2554
Sand	N/A	E2865
Hexane	N/A	E3819
Methylene Chloride	N/A	E3823
EPH Cartridge	N/A	E3757
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

1.5ML Vial Lot # 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
11/4/24	RJ (Ext Lab)	R. Patel/PCBL
10:15	**Preparation Group**	**Analysis Group**

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PrepBatch ID : PB164618

Analytical Method: MNJDEP-EPH-7

Concentration Date: 11/03/2024

Sample ID	Client Sample ID	Test	g/mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB164618BL	PB164618BL	EPH	30.01	N/A	ritesh	RUPESH	2			U5-1
PB164618BS	PB164618BS	EPH	30.03	N/A	ritesh	RUPESH	2			2
PB164618BSD	PB164618BSD	EPH	30.01	N/A	ritesh	RUPESH	2			3
P4620-01	P001-CF06-01	EPH	30.05	N/A	ritesh	RUPESH	2			4
P4620-03	P001-CF07-01	EPH	30.07	N/A	ritesh	RUPESH	2			5
P4620-05	P001-CF08-01	EPH	30.02	N/A	ritesh	RUPESH	2			6
P4620-07	P001-CF09-01	EPH	30.06	N/A	ritesh	RUPESH	2			U6-1
P4620-09	P001-CF10-01	EPH	30.08	N/A	ritesh	RUPESH	2			2
P4620-11	P001-CF11-01	EPH	30.10	N/A	ritesh	RUPESH	2			3
P4620-13	P001-CF12-01	EPH	30.01	N/A	ritesh	RUPESH	2			4
P4620-15	P001-CF13-01	EPH	30.03	N/A	ritesh	RUPESH	2			5
P4620-17	P001-CF14-01	EPH	30.09	N/A	ritesh	RUPESH	2			6
P4620-19	P001-CF15-01	EPH	30.05	N/A	ritesh	RUPESH	2			U7-1
P4620-22	P001-CF16-01	EPH	30.03	N/A	ritesh	RUPESH	2			2
P4620-22DUP	P001-CF16-01DUP	EPH	30.01	N/A	ritesh	RUPESH	2			3
P4620-23	P4620-22MS	EPH	30.08	N/A	ritesh	RUPESH	2			4
P4620-24	P4620-22MSD	EPH	30.06	N/A	ritesh	RUPESH	2			5
P4620-29	P001-CF16-02	EPH	30.03	N/A	ritesh	RUPESH	2			6

* **Extracts relinquished on the same date as received:**

11/4/24

164618
8:45

WORKLIST(Hardcopy Internal Chain)

WorkList Name : P4620 **WorkList ID :** 185046 **Department :** Extraction **Date :** 11-03-2024 08:37:51

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4620-01	P001-CF06-01	Solid	EPH	Cool 4 deg C	ROYF02	K41	10/29/2024	NJEPH
P4620-03	P001-CF07-01	Solid	EPH	Cool 4 deg C	ROYF02	K41	10/29/2024	NJEPH
P4620-05	P001-CF08-01	Solid	EPH	Cool 4 deg C	ROYF02	K41	10/29/2024	NJEPH
P4620-07	P001-CF09-01	Solid	EPH	Cool 4 deg C	ROYF02	K41	10/29/2024	NJEPH
P4620-09	P001-CF10-01	Solid	EPH	Cool 4 deg C	ROYF02	K41	10/29/2024	NJEPH
P4620-11	P001-CF11-01	Solid	EPH	Cool 4 deg C	ROYF02	K41	10/29/2024	NJEPH
P4620-13	P001-CF12-01	Solid	EPH	Cool 4 deg C	ROYF02	K41	10/29/2024	NJEPH
P4620-15	P001-CF13-01	Solid	EPH	Cool 4 deg C	ROYF02	K41	10/29/2024	NJEPH
P4620-17	P001-CF14-01	Solid	EPH	Cool 4 deg C	ROYF02	K41	10/29/2024	NJEPH
P4620-19	P001-CF15-01	Solid	EPH	Cool 4 deg C	ROYF02	K41	10/29/2024	NJEPH
P4620-22	P001-CF16-01	Solid	EPH	Cool 4 deg C	ROYF02	K41	10/29/2024	NJEPH
P4620-23	P4620-22MS	Solid	EPH	Cool 4 deg C	ROYF02	K41	10/29/2024	NJEPH
P4620-24	P4620-22MSD	Solid	EPH	Cool 4 deg C	ROYF02	K41	10/29/2024	NJEPH
P4620-29	P001-CF16-02	Solid	EPH	Cool 4 deg C	ROYF02	K41	10/29/2024	NJEPH

Date/Time 11/3/24 8:40
Raw Sample Received by: RJ (EX-lab)
Raw Sample Relinquished by: [signature]

Date/Time 11/3/24
Raw Sample Received by: [signature]
Raw Sample Relinquished by: RJ (EX-lab)

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PB164637

SOP ID: MNJDEP-EPH-7

Clean Up SOP #: N/A

Matrix : Water

Weigh By: N/A

Balance check: N/A

Balance ID: N/A

pH Strip Lot#: E3574

Extraction By: RS

Filter By: RS

pH Meter ID: N/A

Hood ID: 4,5,6,7

Extraction Start Date : 11/03/2024

Extraction Start Time : 08:20

Extraction End Date : 11/03/2024

Extraction End Time : 17:20

Concentration By: RS

Supervisor By : rajesh

Extraction Method: [√] Seperatory Funnel [ ] Continious Liquid/Liquid [ ] Sonication [ ] Waste Dilution [ ] Soxhlet

Standared Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Surrogate	1.0ML	100 PPM	PP23934
Fractionation Surrogate	1.0ML	100 PPM	PP23927
Spike Sol 1	1.0ML	100 PPM	PP23916
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
Methylene Chloride	N/A	E3823
Baked Na2SO4	N/A	EP2554
6N HCL	N/A	EP2517
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
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

1.5ML Vial Lot # 2210673.

KD Bath ID: WATER BATH-1,2

KD Bath Temperature: 60 °C

Envap ID: NE VAP-02

Envap Temperature: 40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
11/4/24 10:15	RP (Extr. Lab)	R. Patel/PCB Lab
	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PrepBatch ID : PB164637

Analytical Method: MNJDEP-EPH-7

Concentration Date: 11/03/2024

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB164637BL	PB164637BL	EPH	1000	<2	RUPESH	ritesh	2			SEP-1
PB164637BS	PB164637BS	EPH	1000	<2	RUPESH	ritesh	2			2
PB164637TB	PB164637TB	EPH	1000	<2	RUPESH	ritesh	2			3
P4620-02	P001-CF06-01	EPH	1000	<2	RUPESH	ritesh	2	A		4
P4620-04	P001-CF07-01	EPH	1000	<2	RUPESH	ritesh	2	A		5
P4620-06	P001-CF08-01	EPH	1000	<2	RUPESH	ritesh	2	A		6
P4620-08	P001-CF09-01	EPH	1000	<2	RUPESH	ritesh	2	A		7
P4620-10	P001-CF10-01	EPH	1000	<2	RUPESH	ritesh	2	A		8
P4620-12	P001-CF11-01	EPH	1000	<2	RUPESH	ritesh	2	A		9
P4620-14	P001-CF12-01	EPH	1000	<2	RUPESH	ritesh	2	A		10
P4620-16	P001-CF13-01	EPH	1000	<2	RUPESH	ritesh	2	A		11
P4620-18	P001-CF14-01	EPH	1000	<2	RUPESH	ritesh	2	A		12
P4620-20	P001-CF15-01	EPH	1000	<2	RUPESH	ritesh	2	A		13
P4620-25	P001-CF16-01	EPH	1000	<2	RUPESH	ritesh	2	A		14
P4620-26	P4620-25MS	EPH	1000	<2	RUPESH	ritesh	2	A		15
P4620-27	P4620-25MSD	EPH	1000	<2	RUPESH	ritesh	2	A		16
P4620-30	P001-CF16-02	EPH	1000	<2	RUPESH	ritesh	2	A		17

* **Extracts relinquished on the same date as received.**

11/6/24

Alliance TECHNICAL GROUP

SPLP EXTRACTION LOGPAGE

PB164539

Sample ID	ClientID	TCLP Vessel ID	Sample Wt (g)	Volume Extraction Fluid #1 (mL)	Multi phasic	Phase Miscible	Phases Combined	Final Leachate PH	Metals Leachate Adj. PH	Prep Pos
P4620-02	P001-CF06-01	11	100.02	2000	N/A	N/A	N/A	7.2	N/A	T-2
P4620-04	P001-CF07-01	12	100.03	2000	N/A	N/A	N/A	7.0	N/A	T-2
P4620-06	P001-CF08-01	13	100.04	2000	N/A	N/A	N/A	7.2	N/A	T-2
P4620-08	P001-CF09-01	14	100.02	2000	N/A	N/A	N/A	7.0	N/A	T-2
P4620-10	P001-CF10-01	15	100.03	2000	N/A	N/A	N/A	7.2	N/A	T-2
P4620-12	P001-CF11-01	16	100.04	2000	N/A	N/A	N/A	7.0	N/A	T-2
P4620-14	P001-CF12-01	17	100.03	2000	N/A	N/A	N/A	7.2	N/A	T-2
P4620-16	P001-CF13-01	18	100.02	2000	N/A	N/A	N/A	7.0	N/A	T-2
P4620-18	P001-CF14-01	19	100.01	2000	N/A	N/A	N/A	7.2	N/A	T-2
P4620-20	P001-CF15-01	20	100.02	2000	N/A	N/A	N/A	7.0	N/A	T-2
P4620-25	P001-CF16-01	21	100.03	2000	N/A	N/A	N/A	7.2	N/A	ZHE-2
P4620-26	P4620-25MS	21	100.03	2000	N/A	N/A	N/A	7.0	N/A	ZHE-2
P4620-27	P4620-25MSD	21	100.03	2000	N/A	N/A	N/A	7.0	N/A	ZHE-2
P4620-30	P001-CF16-02	22	100.04	2000	N/A	N/A	N/A	7.0	N/A	ZHE-2
PB164539TB	LEB539	23	N/A	2000	N/A	N/A	N/A	4.22	N/A	ZHE-2

10/31/2025
10:00

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

Prep Standard - Chemical Standard Summary

Order ID : P4620

Test : EPH

Prepbatch ID : PB164618,PB164637,

Sequence ID/Qc Batch ID: FC110424AL,FD110424AR,FF110424AR,FG110424AL,

Standard ID :
EP2517,EP2538,EP2554,PP23429,PP23430,PP23519,PP23520,PP23521,PP23522,PP23523,PP23644,PP23645,PP23646,PP23647,PP23648,PP23649,PP23650,PP23916,PP23927,PP23934,

Chemical ID :
E2865,E3551,E3743,E3757,E3768,E3789,E3793,E3794,E3818,E3819,E3823,M5929,P10259,P 11137,P12362,P12972,P12979,P13004,P13005,P13017,P13023,P13024,P13025,P13046,P13049,P13051,P13098,P13100,P13101,P13102,P13258,P13259,P13267,P13270,P13278,P13299,P13423,P13427,P13461,P13462,P13625,P13626,P13627,P13645,P13718,P13719,P13720,P13721,P13722,P13723,P13724,P13725,P13726,P13727,W3112,

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

Extractions STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3319	6N HCL	EP2517	07/23/2024	12/08/2024	Rajesh Parikh	None	None	RUPESHKUMAR SHAH 07/23/2024

FROM 219.00000ml of M5929 + 781.00000ml of W3112 = Final Quantity: 1000.000 ml

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

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Fax : 908 789 8922

Extractions STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3923	Baked Sodium Sulfate	EP2554	10/26/2024	01/03/2025	RUPESHKUMAR SHAH	Extraction_SCALE_2 (EX-SC-2)	None	Rajesh Parikh 10/26/2024

FROM 4000.00000gram of E3551 = Final Quantity: 4000.000 gram

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

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Fax : 908 789 8922

Pest/Pcb STANDARD PREPARATION LOG

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

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

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

Pest/Pcb STANDARD PREPARATION LOG

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

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

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

Pest/Pcb STANDARD PREPARATION LOG

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

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

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

Pest/Pcb STANDARD PREPARATION LOG

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

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

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

Pest/Pcb STANDARD PREPARATION LOG

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

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

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

Pest/Pcb STANDARD PREPARATION LOG

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

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

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

Pest/Pcb STANDARD PREPARATION LOG

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

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1330	100 PPM NJEPH Spike Solution	PP23916	10/25/2024	04/25/2025	Yogesh Patel	None	None	Ankita Jodhani 10/28/2024

FROM 5.00000ml of P13098 + 5.00000ml of P13100 + 5.00000ml of P13101 + 5.00000ml of P13102 + 5.00000ml of P13299 + 5.00000ml of P13423 + 5.00000ml of P13427 + 5.00000ml of P13625 + 5.00000ml of P13626 + 5.00000ml of P13627 + 5.00000ml of P13718 + 5.00000ml of P13719 + 5.00000ml of P13720 + 5.00000ml of P13721 + 5.00000ml of P13722 + 5.00000ml of P13723 + 5.00000ml of P13724 + 5.00000ml of P13725 + 5.00000ml of P13726 + 5.00000ml of P13727 = Final Quantity: 100.000 ml

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Pest/Pcb STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1331	100 PPM NJEPH Fractionating Surrogate	PP23927	10/29/2024	04/15/2025	Yogesh Patel	None	None	Ankita Jodhani 10/30/2024

FROM 1.25000ml of P13267 + 1.25000ml of P13270 + 1.25000ml of P13461 + 1.25000ml of P13462 + 195.00000ml of E3819 = Final Quantity: 200.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1339	100 PPM NJEPH Surrogate Spike	PP23934	10/30/2024	04/23/2025	Yogesh Patel	None	None	Ankita Jodhani 11/04/2024

FROM 1.25000ml of P12979 + 1.25000ml of P13023 + 1.25000ml of P13024 + 1.25000ml of P13025 + 1.25000ml of P13046 + 1.25000ml of P13049 + 1.25000ml of P13051 + 1.25000ml of P13645 + 490.00000ml of E3818 = Final Quantity: 500.000 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-9262-03 / Hexane, Ultra-Resi (cs/4x4L)	24C1862008	02/13/2025	08/13/2024 / Rajesh	08/13/2024 / Rajesh	E3789

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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	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-9254-03 / Acetone, Ultra Resi (cs/4x4L)	24H1462005	04/23/2025	10/23/2024 / Rajesh	10/09/2024 / Rajesh	E3818

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 #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	24I2662006	05/03/2025	11/03/2024 / Rajesh	10/24/2024 / Rajesh	E3823

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9530-33 / Hydrochloric Acid, Instra-Analyzed (cs/6x2.5L)	22G2862015	12/08/2024	06/24/2024 / Al-Terek	06/07/2024 / Al-Terek	M5929

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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	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

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	31098 / 1-Chlorooctadecane Standard	A0204989	04/30/2025	10/30/2024 / yogesh	12/20/2023 / Yogesh	P12979

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

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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	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	04/30/2025	10/30/2024 / yogesh	12/21/2023 / Yogesh	P13023

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31097 / o-Terphenyl Standard	A0204177	04/30/2025	10/30/2024 / yogesh	12/21/2023 / Yogesh	P13024

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31097 / o-Terphenyl Standard	A0204177	04/30/2025	10/30/2024 / yogesh	12/21/2023 / Yogesh	P13025

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31098 / 1-Chlorooctadecane Standard	A0200707	04/30/2025	10/30/2024 / yogesh	12/26/2023 / Yogesh	P13046

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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	31098 / 1-Chlorooctadecane Standard	A0200707	04/30/2025	10/30/2024 / yogesh	12/26/2023 / Yogesh	P13049

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31098 / 1-Chlorooctadecane Standard	A0200707	04/30/2025	10/30/2024 / yogesh	12/26/2023 / Yogesh	P13051

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	04/25/2025	10/25/2024 / yogesh	01/12/2024 / Yogesh	P13098

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30542 / Custom NJEPH Aliphatics Matrix Spike Mix	A0200008	04/25/2025	10/25/2024 / yogesh	01/12/2024 / Yogesh	P13100

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30542 / Custom NJEPH Aliphatics Matrix Spike Mix	A0200008	04/25/2025	10/25/2024 / yogesh	01/12/2024 / Yogesh	P13101

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30542 / Custom NJEPH Aliphatics Matrix Spike Mix	A0200008	04/25/2025	10/25/2024 / yogesh	01/12/2024 / Yogesh	P13102

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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	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 #
Restek	31480 / MA Fractionation Surrogate Spike Mix	A0206496	04/29/2025	10/29/2024 / yogesh	02/20/2024 / yogesh	P13267

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31480 / MA Fractionation Surrogate Spike Mix	A0206496	04/29/2025	10/29/2024 / yogesh	02/20/2024 / yogesh	P13270

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

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	04/25/2025	10/25/2024 / yogesh	04/23/2024 / yogesh	P13299

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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	30542 / Custom NJEPH Aliphatics Matrix Spike Mix	A0207239	04/25/2025	10/25/2024 / yogesh	07/16/2024 / Yogesh	P13423

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	04/25/2025	10/25/2024 / yogesh	07/16/2024 / Yogesh	P13427

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31480 / MA Fractionation Surrogate Spike Mix	A0210831	04/29/2025	10/29/2024 / yogesh	07/23/2024 / yogesh	P13461

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31480 / MA Fractionation Surrogate Spike Mix	A0210831	04/29/2025	10/29/2024 / yogesh	07/23/2024 / yogesh	P13462

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	04/25/2025	10/25/2024 / yogesh	10/16/2024 / yogesh	P13625

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	04/25/2025	10/25/2024 / yogesh	10/16/2024 / yogesh	P13626

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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	04/25/2025	10/25/2024 / yogesh	10/16/2024 / yogesh	P13627

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31097 / o-Terphenyl Standard	A0216631	04/30/2025	10/30/2024 / yogesh	10/16/2024 / yogesh	P13645

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30543 / Custom NJEPH Aromatics Matrix Spike Mix	A0217838	04/25/2025	10/25/2024 / yogesh	10/24/2024 / yogesh	P13718

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30543 / Custom NJEPH Aromatics Matrix Spike Mix	A0217838	04/25/2025	10/25/2024 / yogesh	10/24/2024 / yogesh	P13719

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30543 / Custom NJEPH Aromatics Matrix Spike Mix	A0217838	04/25/2025	10/25/2024 / yogesh	10/24/2024 / yogesh	P13720

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30543 / Custom NJEPH Aromatics Matrix Spike Mix	A0217838	04/25/2025	10/25/2024 / yogesh	10/24/2024 / yogesh	P13721

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Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30543 / Custom NJEPH Aromatics Matrix Spike Mix	A0217838	04/25/2025	10/25/2024 / yogesh	10/24/2024 / yogesh	P13722

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30543 / Custom NJEPH Aromatics Matrix Spike Mix	A0217838	04/25/2025	10/25/2024 / yogesh	10/24/2024 / yogesh	P13723

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30543 / Custom NJEPH Aromatics Matrix Spike Mix	A0217838	04/25/2025	10/25/2024 / yogesh	10/24/2024 / yogesh	P13724

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30543 / Custom NJEPH Aromatics Matrix Spike Mix	A0217838	04/25/2025	10/25/2024 / yogesh	10/24/2024 / yogesh	P13725

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30543 / Custom NJEPH Aromatics Matrix Spike Mix	A0217838	04/25/2025	10/25/2024 / yogesh	10/24/2024 / yogesh	P13726

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30543 / Custom NJEPH Aromatics Matrix Spike Mix	A0217838	04/25/2025	10/25/2024 / yogesh	10/24/2024 / yogesh	P13727

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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	DIW / DI Water	Daily Lab-Certified	07/03/2029	07/03/2024 / Iwona	07/03/2024 / Iwona	W3112

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Certificate of Analysis

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ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ilac-MRA

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)

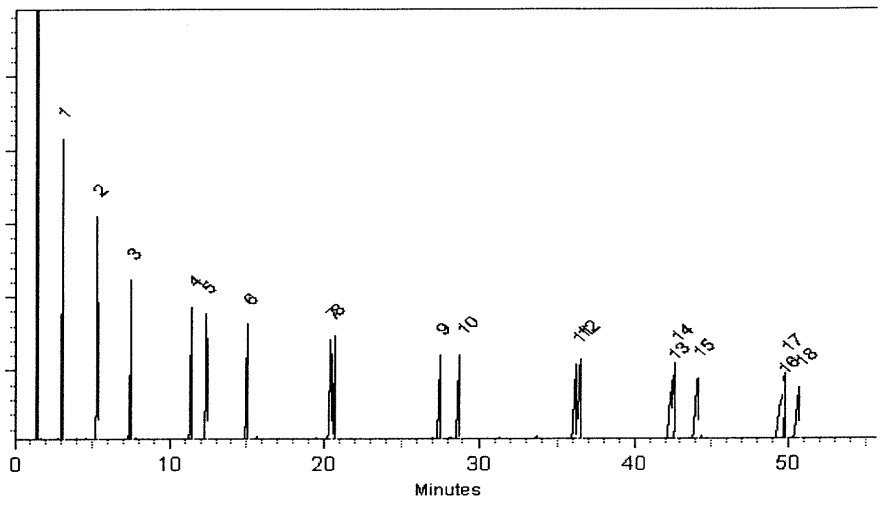
Carrier Gas:
hydrogen-constant pressure 10 psi.

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 RP on 7/24/23 E3551

ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)

avantor™

Material No.: 92[illegible]
Batch No.: 24C[illegible]
Manufactured Date: 2024-[illegible]
Expiration Date: 2025
Revision [illegible]

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

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

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

Acetone
BAKER RESI-ANALYZED® Reagent
For Organic Residue Analysis

avantor™ | J.T.Baker

Material No.: 9254-03
Batch No.: 24H1462005
Manufactured Date: 2024-05-24
Expiration Date:2027-05-24
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay ($(CH_3)_2CO$) (by GC, corrected forwater)	>= 99.4 %	99.8 %
Color (APHA)	<= 10	5
Residue after Evaporation	<= 1.0 ppm	0.2 ppm
Substances Reducing Permanganate	Passes Test	Passes Test
Titrable Acid (µeq/g)	<= 0.3	0.2
Titrable Base (µeq/g)	<= 0.6	<0.1
Water (H_2O)	<= 0.5 %	0.2 %
FID-Sensitive Impurities (as 2-Octanol)Single Impurity Peak (ng/mL)	<= 5	<1
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	<= 10	1

For Laboratory,Research,or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States
Packaging Site: Phillipsburg Mfg Ctr & DC

Recd. by RP on 10/9/24

E 3818

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

Page 1 of 1

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

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)

avantor™ | J.T.Baker

Material No.: 9266-A4
Batch No.: 24I2662006
Manufactured Date: 2024-08-29
Expiration Date:2025-11-28
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol)Single Impurity Peak (ng/mL)	<= 5	2
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	<= 10	3
Assay (CH_2Cl_2) (by GC, exclusive of preservative, corrected for water)	>= 99.8 %	99.9 %
Color (APHA)	<= 10	5
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: United States
Packaging Site: Phillipsburg Mfg Ctr & DC

E 3823

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

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

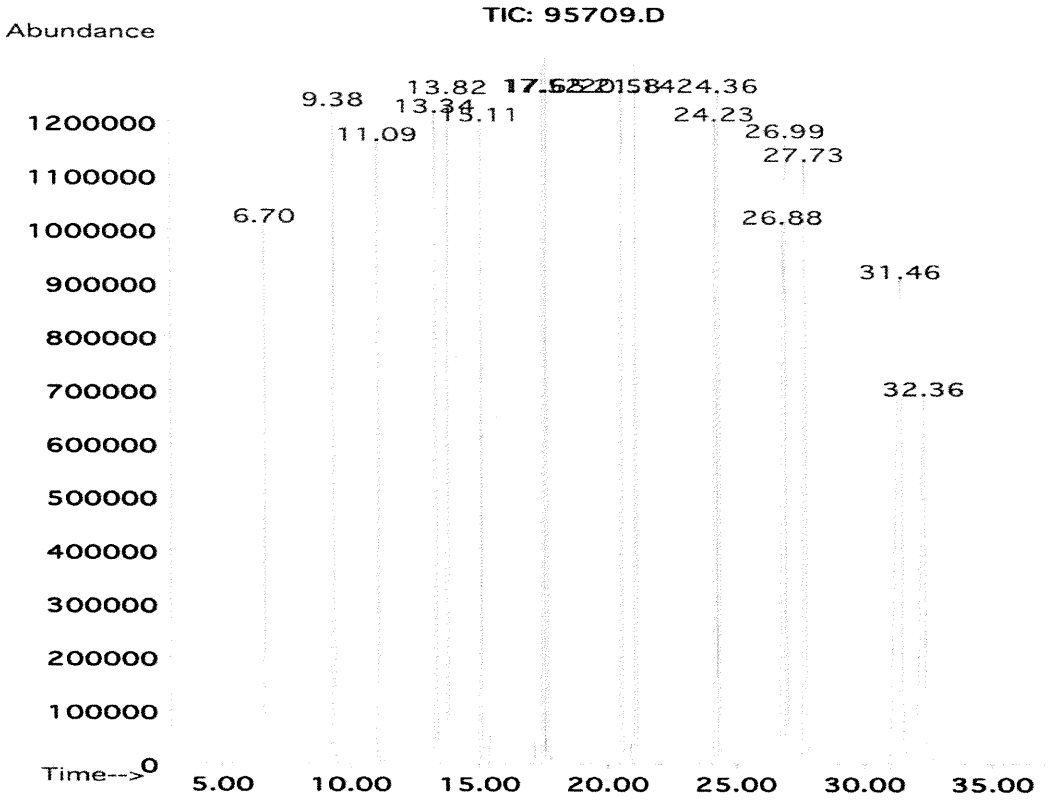
- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certifed (+/-) 0.5% of the stated value, 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).

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

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

Part # **95709** Lot # **060420**

Printed: 10/28/2021, 12:28:37 PM

RESTEK
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Tel: (800)356-1688
Fax: (814)353-1309

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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)

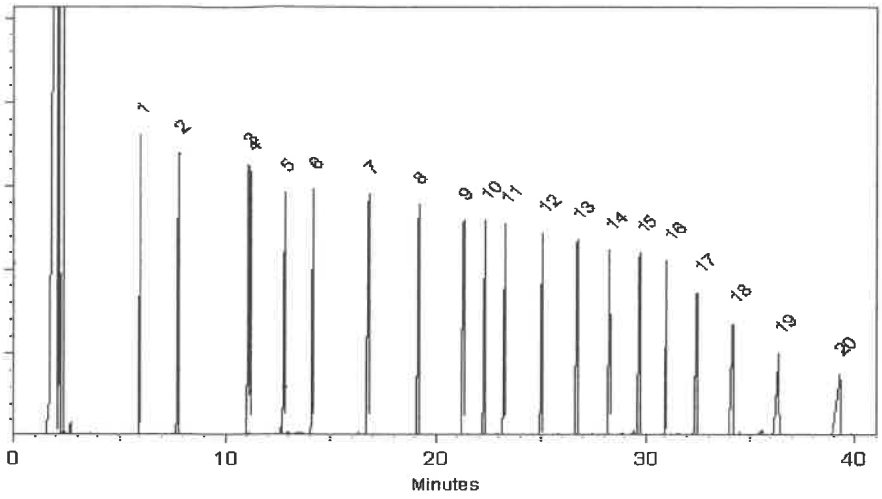
Carrier Gas:
hydrogen-constant pressure 10 psi.

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.

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Certificate of Analysis

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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.)

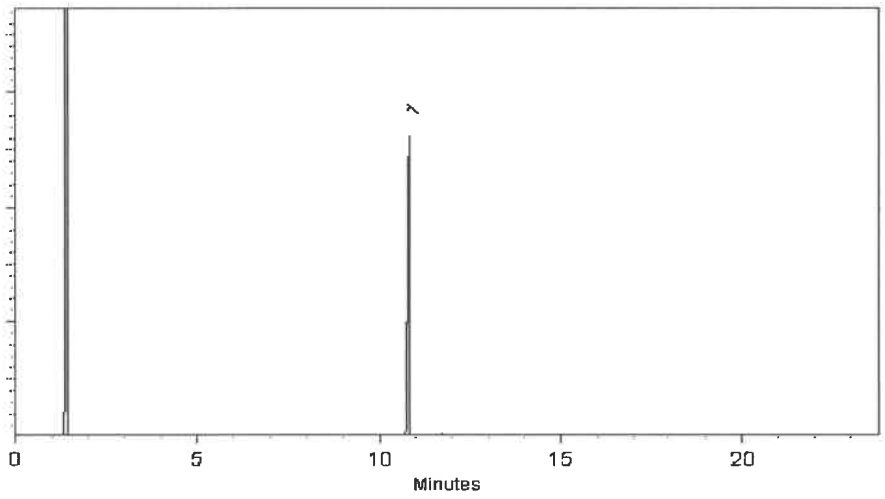
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
10 ml/min.

Inj. Vol
1µl



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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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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.)

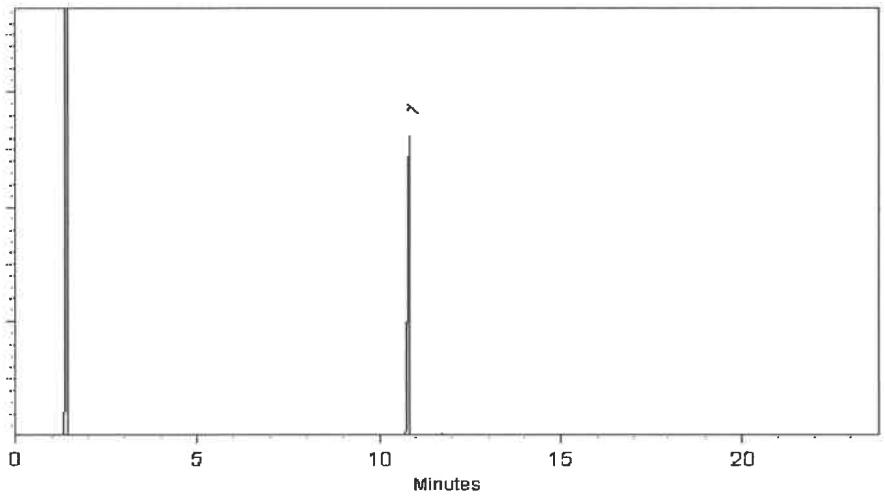
Inj. Temp:
250°C

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:

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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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P4620-EPH

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ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

Certificate of Analysis

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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%

1122 of 1231

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.)

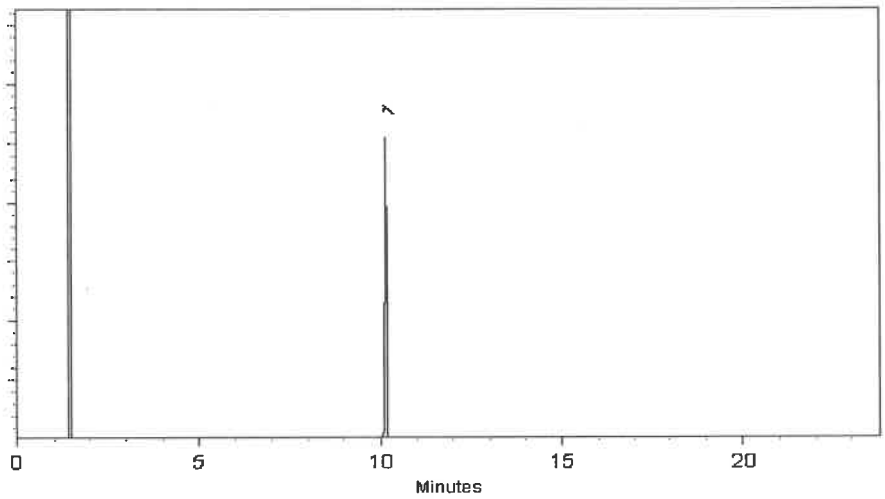
Inj. Temp:
250°C

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 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.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

P4620-EPH

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ilac-MRA A2LA ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ilac-MRA A2LA 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.

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%

1125 of 1231

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.)

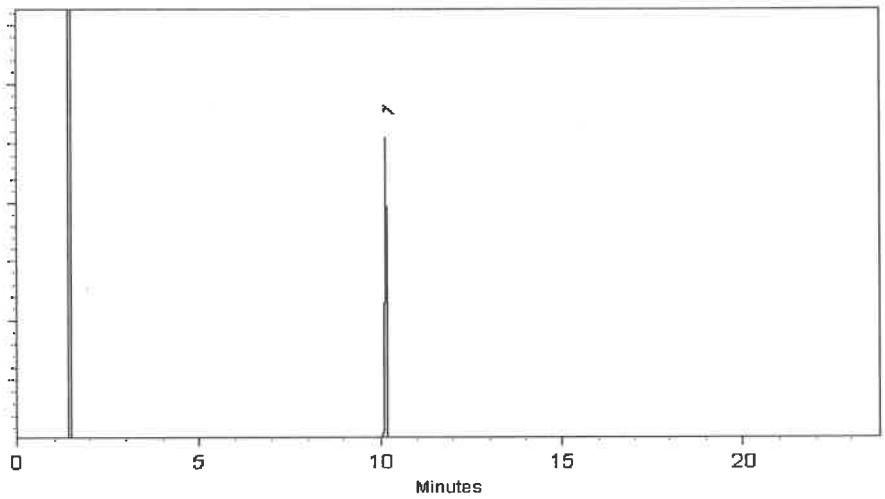
Inj. Temp:
250°C

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

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

Certificate of Analysis

chromatographic plus

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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%

1128 of 1231

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.)

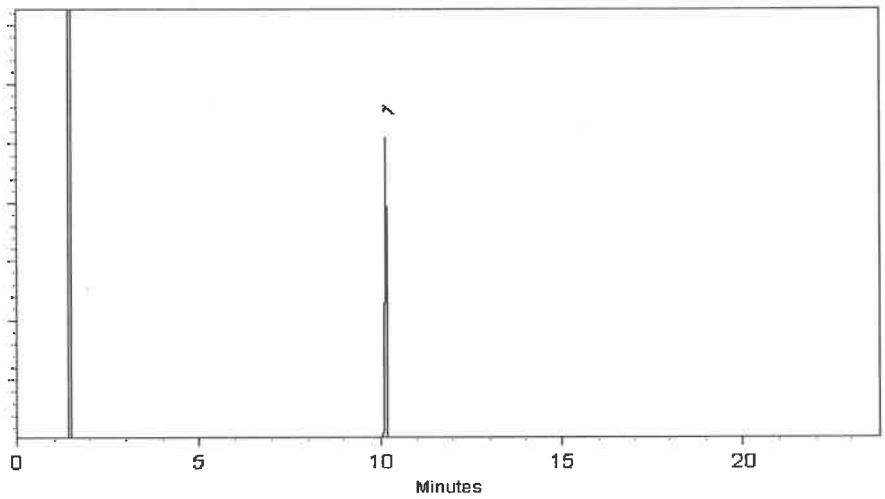
Inj. Temp:
250°C

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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  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.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%

1131 of 1231

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.)

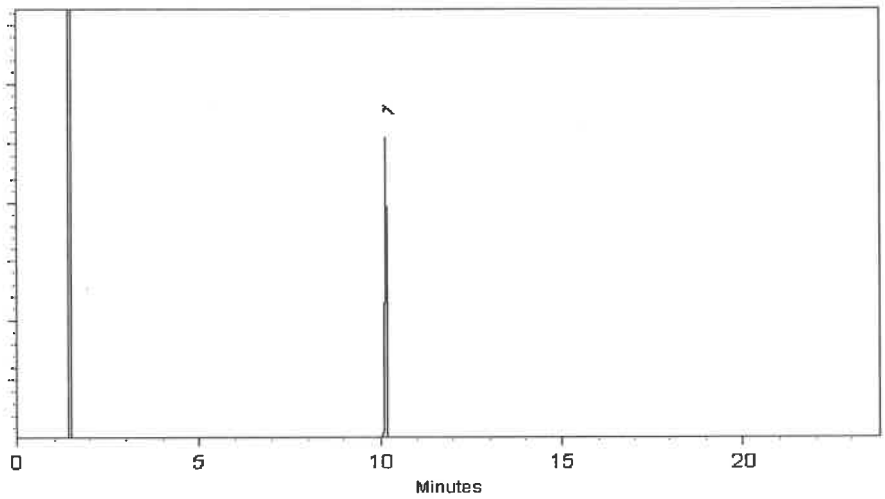
Inj. Temp:
250°C

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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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%

1134 of 1231

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.)

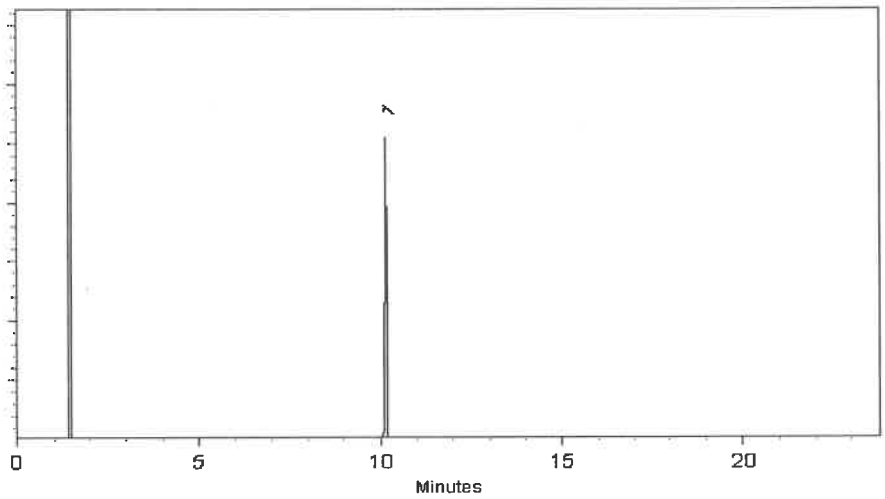
Inj. Temp:
250°C

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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Manufacturing Notes:

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Handling 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%

1137 of 1231

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.)

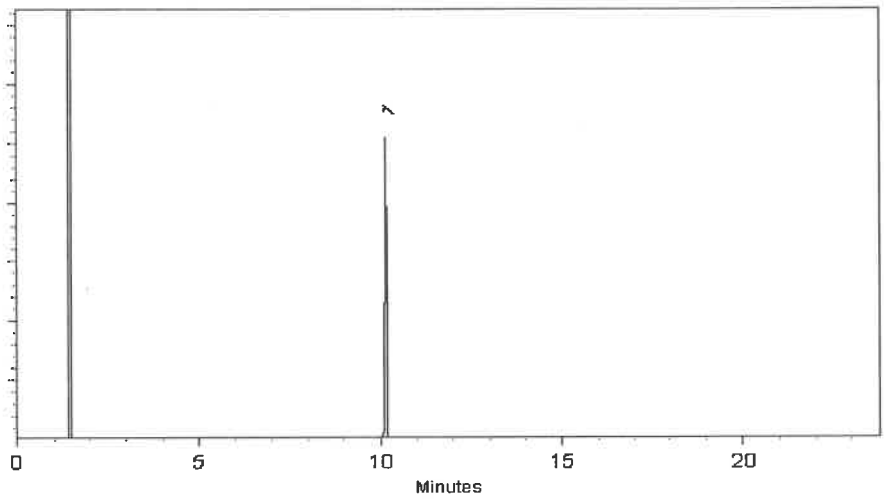
Inj. Temp:
250°C

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

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Catalog No. : 31098 **Lot No.:** A0200707

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

P130hh
P1305l
} Y.P. 12/26/23

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.)

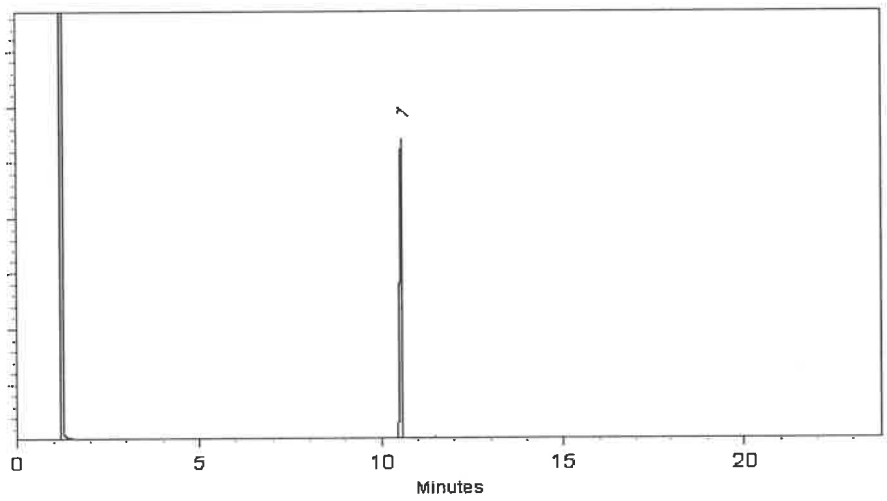
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
10 ml/min.

Inj. Vol
1µl



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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.)

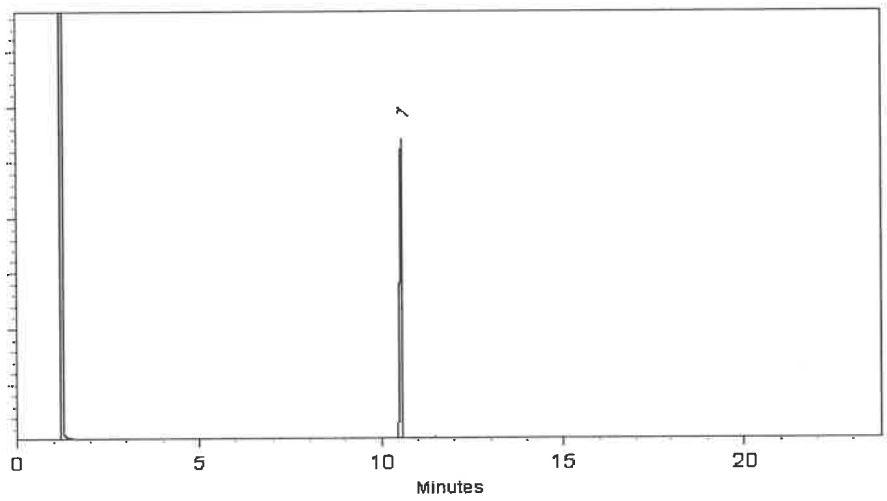
Inj. Temp:
250°C

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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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. : 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.)

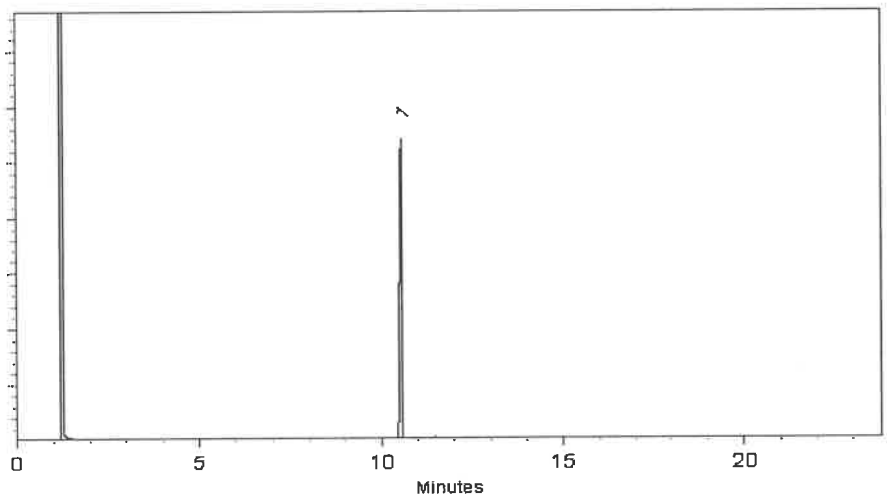
Inj. Temp:
250°C

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
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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.

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.)

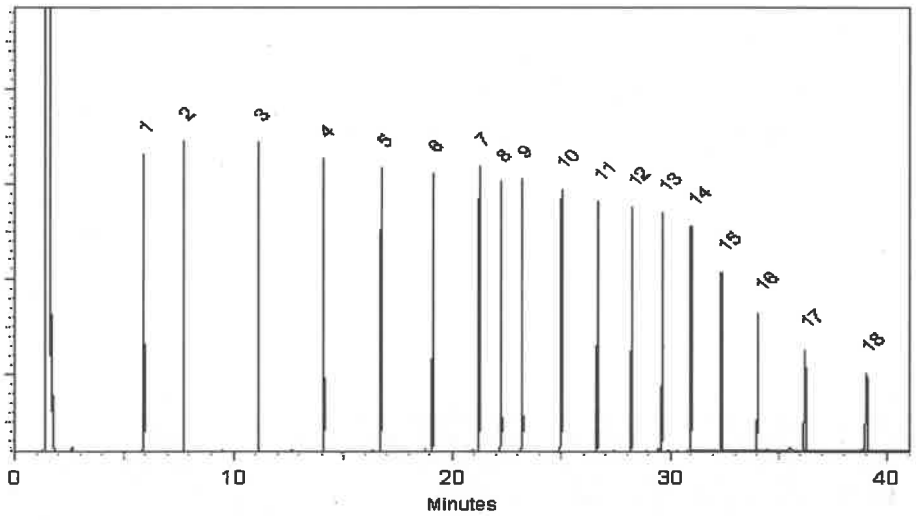
Inj. Temp:
250°C

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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ilac-MRA 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.:** A0200008

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 : August 31, 2030 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

P13100 & P13102 Y.P. 01/02/24

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%	201.7 µg/mL	+/- 5.2098
2	n-Decane (C10)	124-18-5	SHBP4427	99%	201.3 µg/mL	+/- 5.2012
3	n-Dodecane (C12)	112-40-3	SHBN7174	99%	200.7 µg/mL	+/- 5.1839
4	n-Tetradecane (C14)	629-59-4	STBK5437	99%	201.0 µg/mL	+/- 5.1926
5	n-Hexadecane (C16)	544-76-3	SHBP8192	99%	201.7 µg/mL	+/- 5.2098
6	n-Octadecane (C18)	593-45-3	UE5NG	98%	201.2 µg/mL	+/- 5.1984
7	n-Eicosane (C20)	112-95-8	MKCN8767	97%	201.4 µg/mL	+/- 5.2038
8	n-Heneicosane (C21)	629-94-7	MKCL3226	99%	201.3 µg/mL	+/- 5.2012
9	n-Docosane (C22)	629-97-0	MKCQ3882	99%	201.3 µg/mL	+/- 5.2012
10	n-Tetracosane (C24)	646-31-1	MKCQ8345	99%	201.3 µg/mL	+/- 5.2012
11	n-Hexacosane (C26)	630-01-3	MKCQ4814	99%	201.7 µg/mL	+/- 5.2098
12	n-Octacosane (C28)	630-02-4	BCCG0084	99%	201.0 µg/mL	+/- 5.1926
13	n-Triacontane (C30)	638-68-6	MKCQ9436	97%	200.5 µg/mL	+/- 5.1788
14	n-Dotriacontane (C32)	544-85-4	BCBW0661	99%	201.3 µg/mL	+/- 5.2012
15	n-Tetratriacontane (C34)	14167-59-0	D3MZN	99%	200.7 µg/mL	+/- 5.1839
16	n-Hexatriacontane (C36)	630-06-8	Z27H018	99%	201.0 µg/mL	+/- 5.1926
17	n-Octatriacontane (C38)	7194-85-6	0000145137	96%	201.3 µg/mL	+/- 5.1998

18	n-Tetracontane (C40)	4181-95-7	4LJYN	98%	200.6 µg/mL	+/-	5.1815

* 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.)

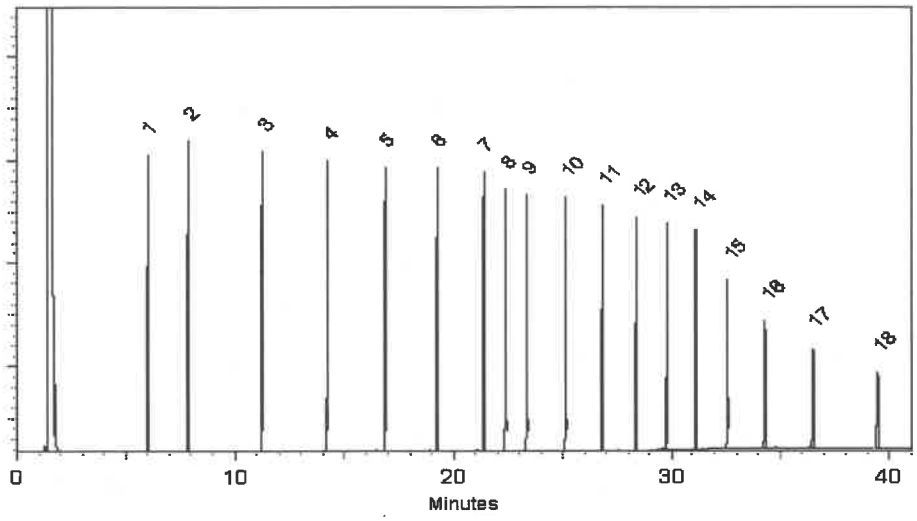
Inj. Temp:
250°C

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.

John Friedline - Operations Technician I

Date Mixed: 18-Jul-2023 **Balance Serial #** 1127510105

Jennifer Polino - Operations Tech III - ARM QC

Date Passed: 21-Jul-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. : 30542 **Lot No.:** A0200008

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 : August 31, 2030 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

P13100 & P13102 Y.P. 01/02/24

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%	201.7 µg/mL	+/- 5.2098
2	n-Decane (C10)	124-18-5	SHBP4427	99%	201.3 µg/mL	+/- 5.2012
3	n-Dodecane (C12)	112-40-3	SHBN7174	99%	200.7 µg/mL	+/- 5.1839
4	n-Tetradecane (C14)	629-59-4	STBK5437	99%	201.0 µg/mL	+/- 5.1926
5	n-Hexadecane (C16)	544-76-3	SHBP8192	99%	201.7 µg/mL	+/- 5.2098
6	n-Octadecane (C18)	593-45-3	UE5NG	98%	201.2 µg/mL	+/- 5.1984
7	n-Eicosane (C20)	112-95-8	MKCN8767	97%	201.4 µg/mL	+/- 5.2038
8	n-Heneicosane (C21)	629-94-7	MKCL3226	99%	201.3 µg/mL	+/- 5.2012
9	n-Docosane (C22)	629-97-0	MKCQ3882	99%	201.3 µg/mL	+/- 5.2012
10	n-Tetracosane (C24)	646-31-1	MKCQ8345	99%	201.3 µg/mL	+/- 5.2012
11	n-Hexacosane (C26)	630-01-3	MKCQ4814	99%	201.7 µg/mL	+/- 5.2098
12	n-Octacosane (C28)	630-02-4	BCCG0084	99%	201.0 µg/mL	+/- 5.1926
13	n-Triacontane (C30)	638-68-6	MKCQ9436	97%	200.5 µg/mL	+/- 5.1788
14	n-Dotriacontane (C32)	544-85-4	BCBW0661	99%	201.3 µg/mL	+/- 5.2012
15	n-Tetratriacontane (C34)	14167-59-0	D3MZN	99%	200.7 µg/mL	+/- 5.1839
16	n-Hexatriacontane (C36)	630-06-8	Z27H018	99%	201.0 µg/mL	+/- 5.1926
17	n-Octatriacontane (C38)	7194-85-6	0000145137	96%	201.3 µg/mL	+/- 5.1998

18	n-Tetracontane (C40)	4181-95-7	4LJYN	98%	200.6 µg/mL	+/- 5.1815

* 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.)

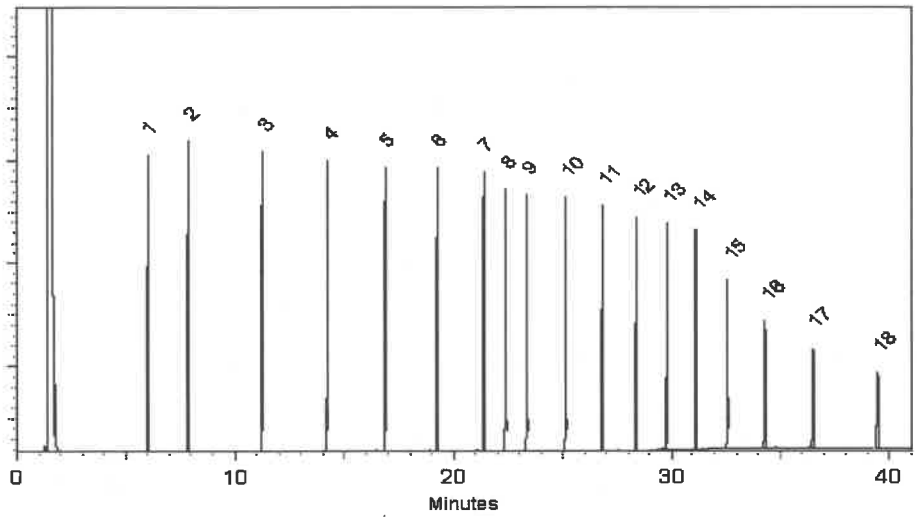
Inj. Temp:
250°C

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.

John Friedline - Operations Technician I

Date Mixed: 18-Jul-2023 **Balance Serial #** 1127510105

Jennifer Polino - Operations Tech III - ARM QC

Date Passed: 21-Jul-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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ilac-MRA A2LA 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.:** A0200008

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 : August 31, 2030 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

P13100 & P13102 } Y.P. 01/02/24

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%	201.7 µg/mL	+/- 5.2098
2	n-Decane (C10)	124-18-5	SHBP4427	99%	201.3 µg/mL	+/- 5.2012
3	n-Dodecane (C12)	112-40-3	SHBN7174	99%	200.7 µg/mL	+/- 5.1839
4	n-Tetradecane (C14)	629-59-4	STBK5437	99%	201.0 µg/mL	+/- 5.1926
5	n-Hexadecane (C16)	544-76-3	SHBP8192	99%	201.7 µg/mL	+/- 5.2098
6	n-Octadecane (C18)	593-45-3	UE5NG	98%	201.2 µg/mL	+/- 5.1984
7	n-Eicosane (C20)	112-95-8	MKCN8767	97%	201.4 µg/mL	+/- 5.2038
8	n-Heneicosane (C21)	629-94-7	MKCL3226	99%	201.3 µg/mL	+/- 5.2012
9	n-Docosane (C22)	629-97-0	MKCQ3882	99%	201.3 µg/mL	+/- 5.2012
10	n-Tetracosane (C24)	646-31-1	MKCQ8345	99%	201.3 µg/mL	+/- 5.2012
11	n-Hexacosane (C26)	630-01-3	MKCQ4814	99%	201.7 µg/mL	+/- 5.2098
12	n-Octacosane (C28)	630-02-4	BCCG0084	99%	201.0 µg/mL	+/- 5.1926
13	n-Triacontane (C30)	638-68-6	MKCQ9436	97%	200.5 µg/mL	+/- 5.1788
14	n-Dotriacontane (C32)	544-85-4	BCBW0661	99%	201.3 µg/mL	+/- 5.2012
15	n-Tetratriacontane (C34)	14167-59-0	D3MZN	99%	200.7 µg/mL	+/- 5.1839
16	n-Hexatriacontane (C36)	630-06-8	Z27H018	99%	201.0 µg/mL	+/- 5.1926
17	n-Octatriacontane (C38)	7194-85-6	0000145137	96%	201.3 µg/mL	+/- 5.1998

18	n-Tetracontane (C40)	4181-95-7	4LJYN	98%	200.6 µg/mL	+/-	5.1815

* 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.)

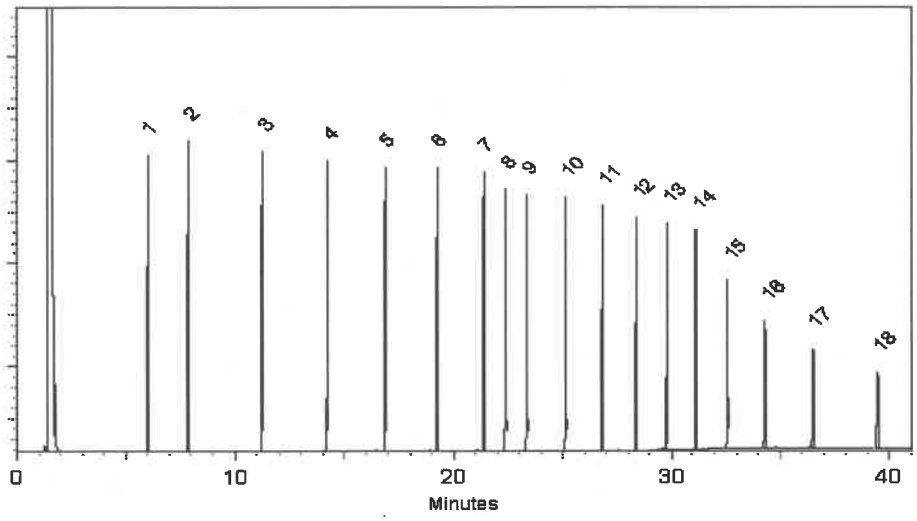
Inj. Temp:
250°C

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.

John Friedline - Operations Technician I

Date Mixed: 18-Jul-2023 **Balance Serial #** 1127510105

Jennifer Polino - Operations Tech III - ARM QC

Date Passed: 21-Jul-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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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.

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.)

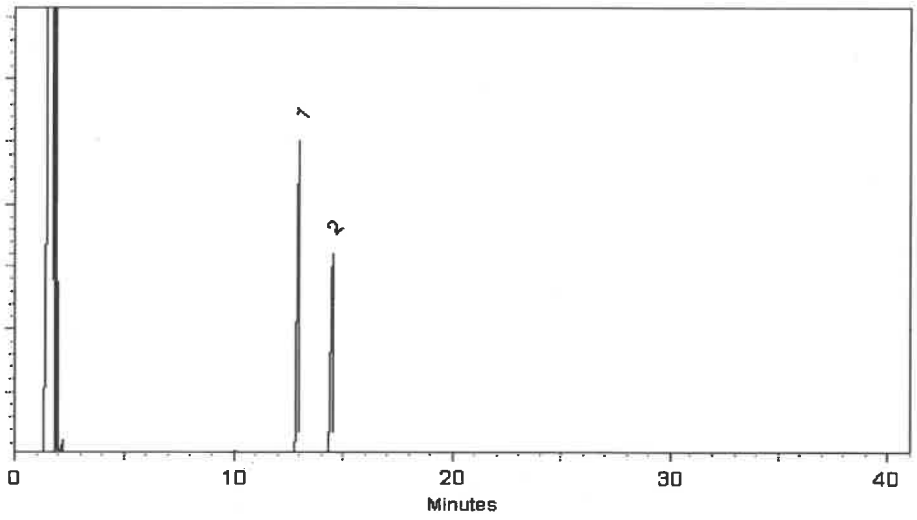
Inj. Temp:
250°C

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.
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CERTIFIED REFERENCE MATERIAL

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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.)

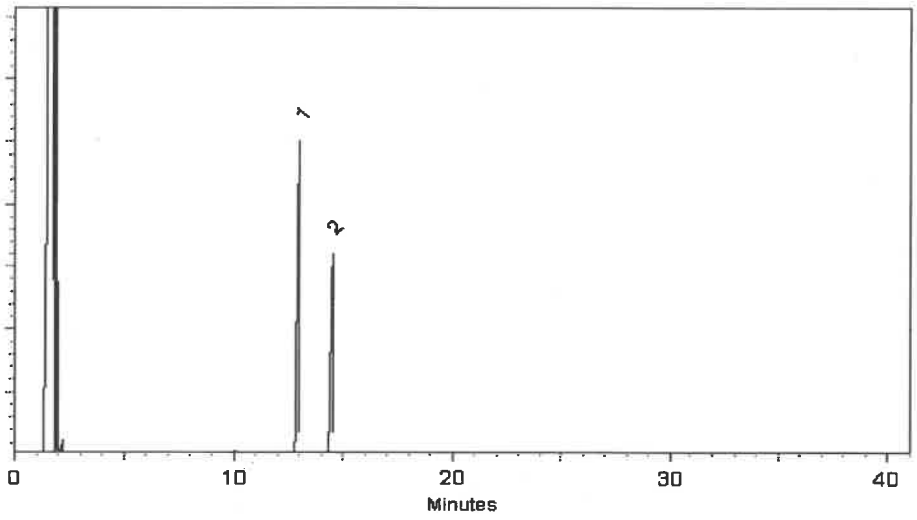
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
1µl



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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.
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Certified Uncertainty Value Notes:

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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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CERTIFIED REFERENCE MATERIAL

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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.)

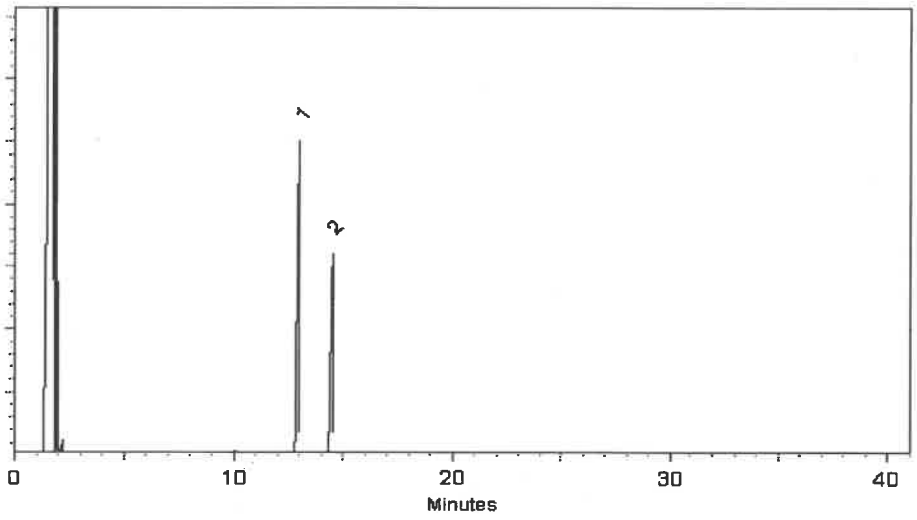
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
1µl



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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:

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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:

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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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P13258 ↓ P13277 } Y.P. 02/20/24

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

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.)

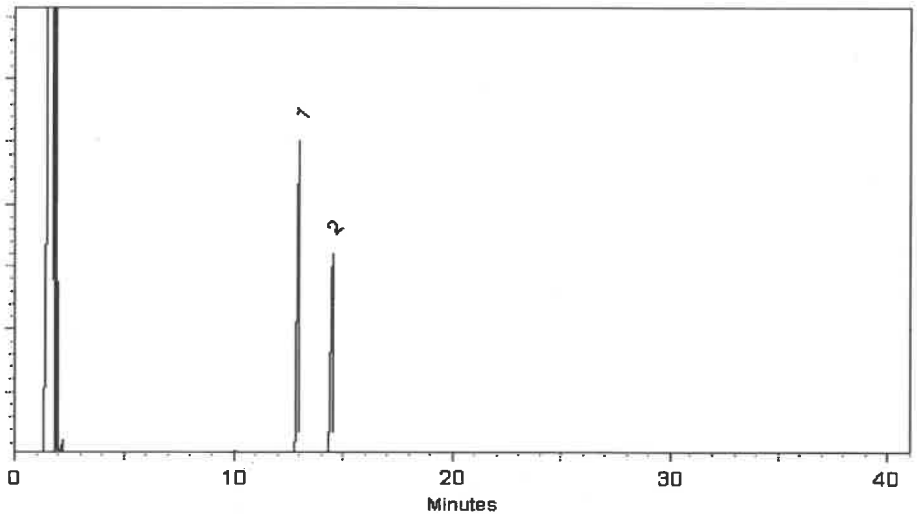
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
1µl



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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:

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- 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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Manufacturing Notes:

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Handling Notes:

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P4620-EPH

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: 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

Formulated By:	Anthony Mahoney	040524 DATE
Reviewed By:	Pedro L. Rentas	040524 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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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.

Catalog No. : 30542 **Lot No.:** A0207239

Description : NJEPH Aliphatics Matrix Spike Mix

NJEPH Aliphatics Matrix Spike Mix 200 µg/mL, n-Pentane, 5mL/ampul

P13288 → P13317 Y.P. 04/23/24

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

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.)

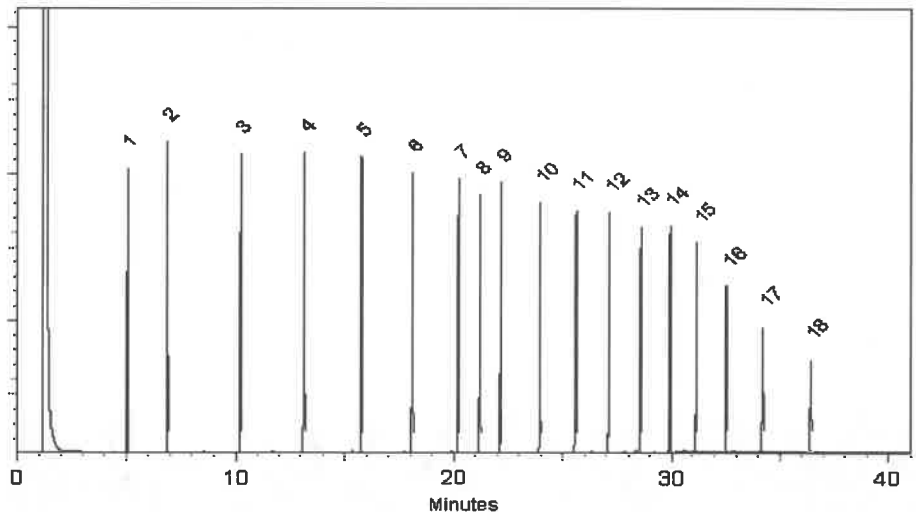
Inj. Temp:
250°C

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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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.:** 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.)

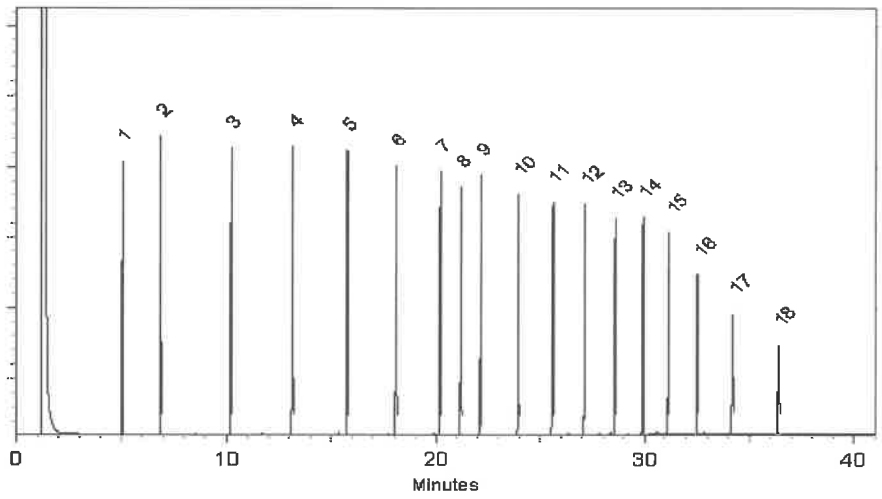
Inj. Temp:
250°C

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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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.:** 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.)

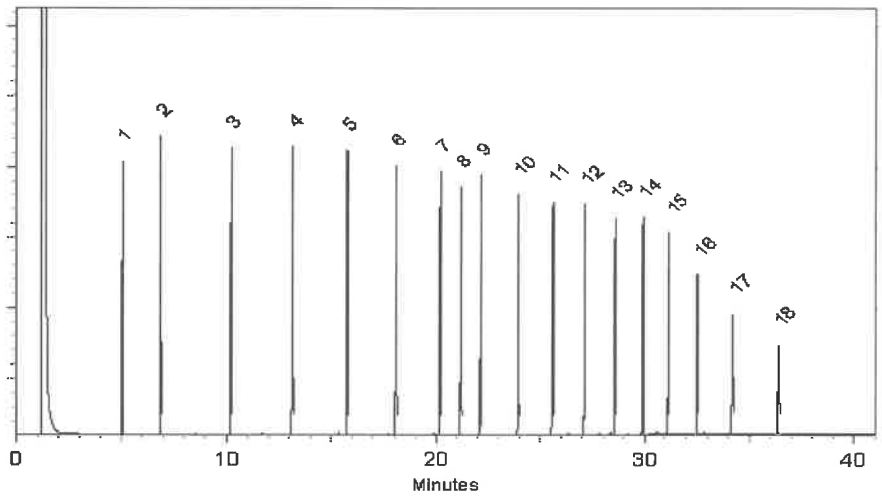
Inj. Temp:
250°C

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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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.

Catalog No. : 31480 **Lot No.:** A0210831

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 : March 31, 2030 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

P13457 ↓ P13476 Y.P. 07/23/24

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%	4,031.0 µg/mL	+/- 181.5871
2	2-Bromonaphthalene	580-13-2	STBC5362V	99%	4,037.5 µg/mL	+/- 181.8799

* 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.)

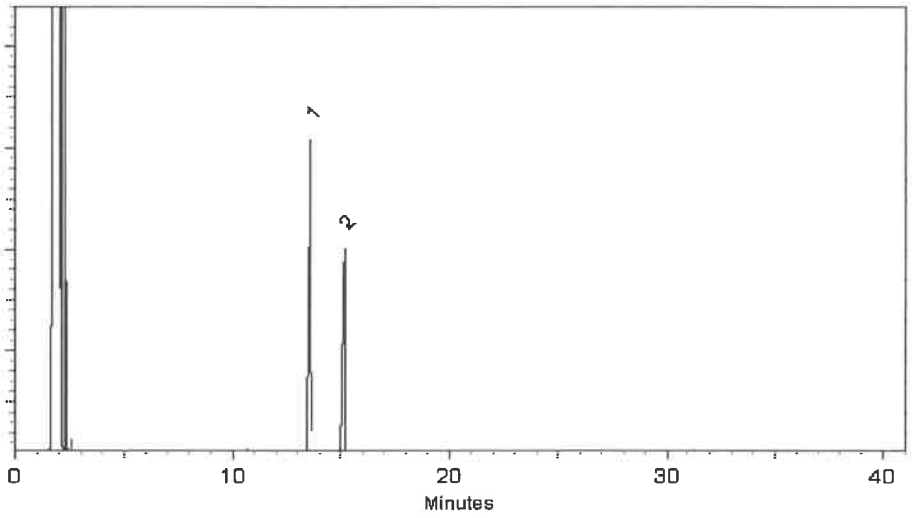
Inj. Temp:
250°C

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.

Stacey Wanner - Operations Technician I

Date Mixed: 29-Apr-2024 **Balance Serial #** B345965662

Dillan Murphy - Operations Technician I

Date Passed: 30-Apr-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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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.:** A0210831

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 : March 31, 2030 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

P13457 ↓ P13476 Y.P. 07/23/24

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%	4,031.0 µg/mL	+/- 181.5871
2	2-Bromonaphthalene	580-13-2	STBC5362V	99%	4,037.5 µg/mL	+/- 181.8799

* 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.)

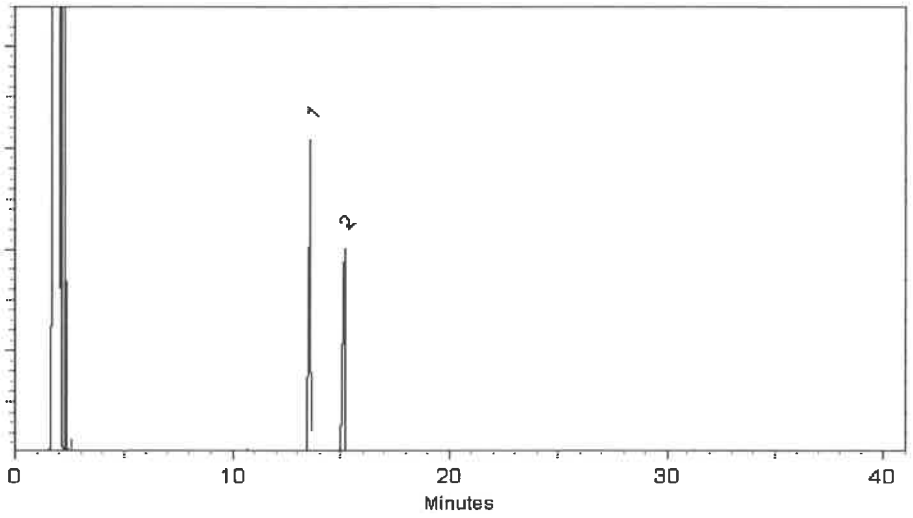
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
1µl



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Stacey Wanner - Operations Technician I

Date Mixed: 29-Apr-2024 **Balance Serial #** B345965662

Dillan Murphy - Operations Technician I

Date Passed: 30-Apr-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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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

P13625
↓
P13644
} Y.P. 10/16/24

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.)

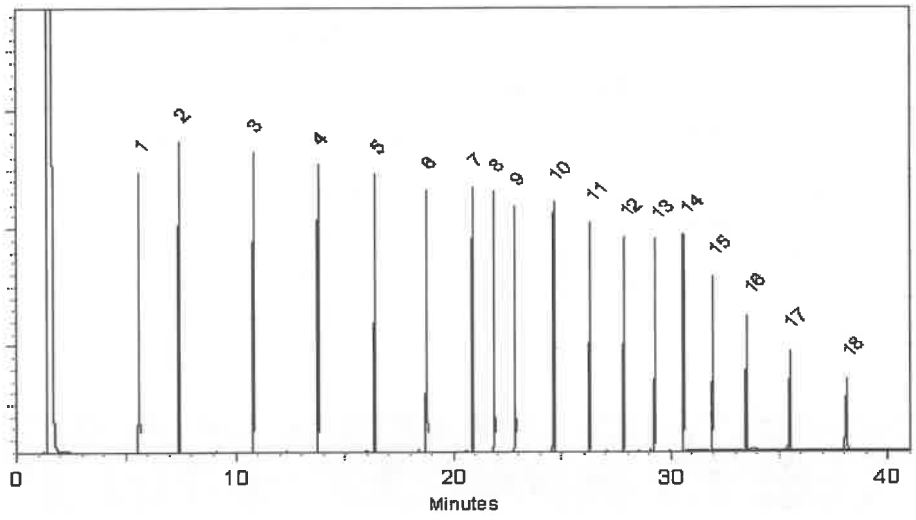
Inj. Temp:
250°C

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 of Analysis

chromatographic plus

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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

P13625
↓
P13644
} Y.P. 10/16/24

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.)

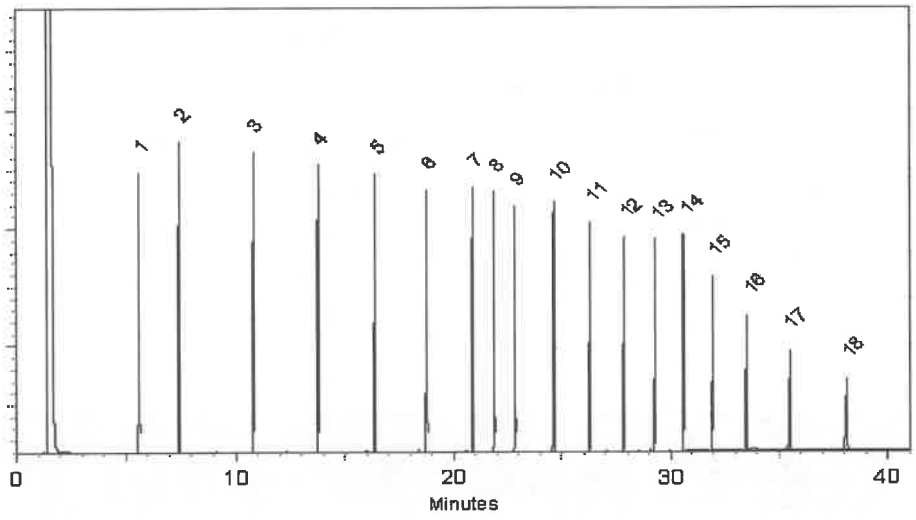
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
1µl



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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.
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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.
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Certified Uncertainty Value Notes:

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Handling Notes:

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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

P13625 ↓ P13644 } Y.P. 10/16/24

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.)

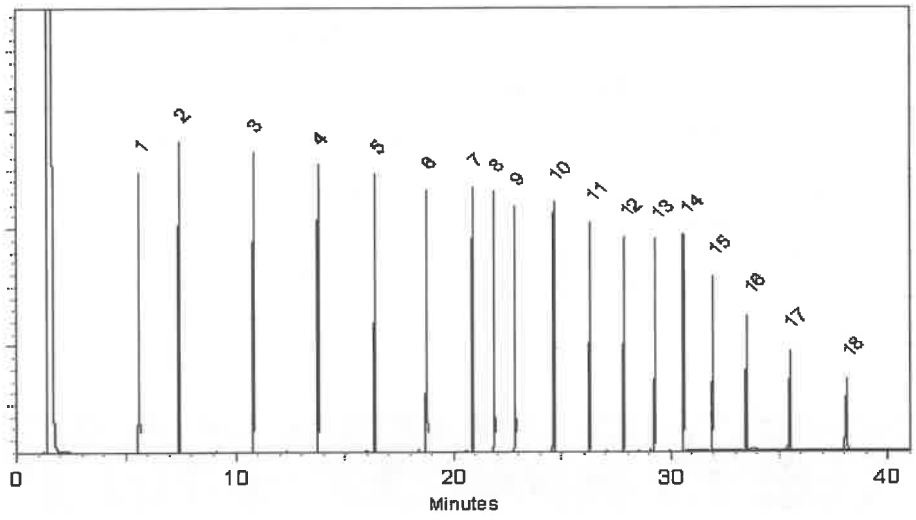
Inj. Temp:
250°C

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

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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. : 31097 **Lot No.:** A0216631

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 : April 30, 2028 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

P13645 ↓ P13694 } Y.P. 10/16/24

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%	10,065.0 µg/mL	+/- 453.3336

* 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.)

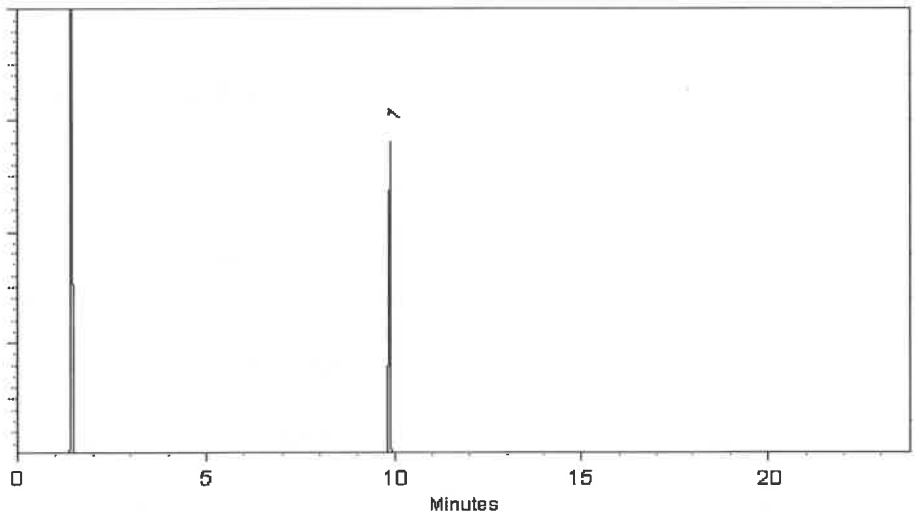
Inj. Temp:
250°C

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.

Ven Kelley - Operations Tech I

Date Mixed: 17-Sep-2024 **Balance Serial #** 1128353505

Dillan Murphy - Operations Technician I

Date Passed: 23-Sep-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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ilac-MRA A2LA 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. : 30543 **Lot No.:** A0217838

Description : NJEPH Aromatics Matrix Spike Mix

NJEPH Aromatics Matrix Spike Mix 200µg/mL, Acetone/Toluene (50:50), 5mL/ampul

P13717 ↓ P13727 } Y.P 10/24/24

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : September 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%	201.6 µg/mL	+/- 9.0835
2	Naphthalene	91-20-3	STBL1057	99%	200.0 µg/mL	+/- 9.0114
3	2-Methylnaphthalene	91-57-6	STBL3028	99%	200.4 µg/mL	+/- 9.0294
4	Acenaphthylene	208-96-8	214935V18H	95%	199.1 µg/mL	+/- 8.9717
5	Acenaphthene	83-32-9	MKCR7169	99%	200.4 µg/mL	+/- 9.0294
6	Fluorene	86-73-7	10246250	98%	201.5 µg/mL	+/- 9.0784
7	Phenanthrene	85-01-8	MKCT3391	99%	201.2 µg/mL	+/- 9.0655
8	Anthracene	120-12-7	101492T18R	99%	200.0 µg/mL	+/- 9.0114
9	Fluoranthene	206-44-0	MKCQ4728	99%	200.4 µg/mL	+/- 9.0294
10	Pyrene	129-00-0	BCCK2592	99%	200.0 µg/mL	+/- 9.0114
11	Benz(a)anthracene	56-55-3	I60012022BAA	99%	200.0 µg/mL	+/- 9.0114
12	Chrysene	218-01-9	RP240627ECS	99%	200.4 µg/mL	+/- 9.0294
13	Benzo(b)fluoranthene	205-99-2	052013B	99%	201.2 µg/mL	+/- 9.0655
14	Benzo(k)fluoranthene	207-08-9	012022K	99%	201.6 µg/mL	+/- 9.0835
15	Benzo(a)pyrene	50-32-8	NQLXA	98%	199.9 µg/mL	+/- 9.0078
16	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	199.0 µg/mL	+/- 8.9683

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	RP240625RSR	97%	199.0	µg/mL	+/- 8.9683

* 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.)

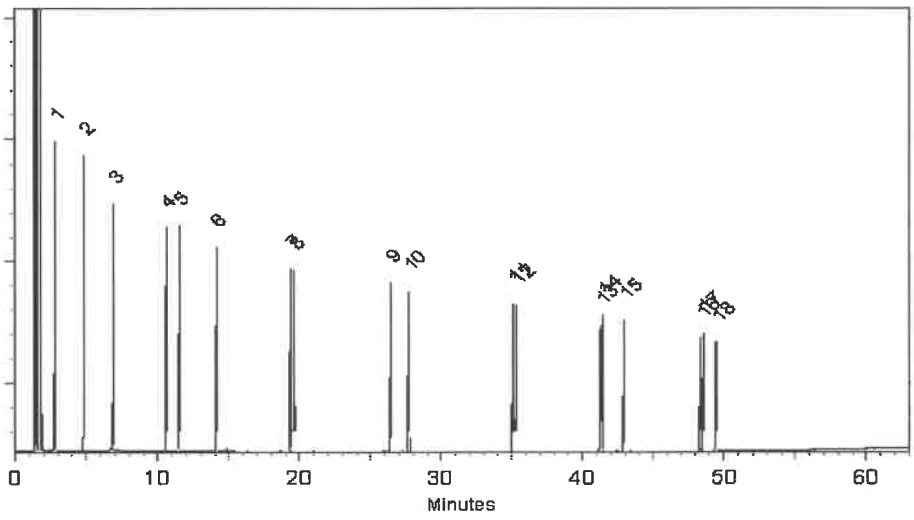
Inj. Temp:
250°C

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.

Rebecca Gingerich - Operations Tech II

Date Mixed: 14-Oct-2024 **Balance Serial #** 1128360905

Brittany Federinko - Operations Tech I

Date Passed: 21-Oct-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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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.

Catalog No. : 30543 **Lot No.:** A0217838

Description : NJEPH Aromatics Matrix Spike Mix

NJEPH Aromatics Matrix Spike Mix 200µg/mL, Acetone/Toluene (50:50), 5mL/ampul

P13717 ↓ P13727 } Y.P 10/24/24

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : September 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%	201.6 µg/mL	+/- 9.0835
2	Naphthalene	91-20-3	STBL1057	99%	200.0 µg/mL	+/- 9.0114
3	2-Methylnaphthalene	91-57-6	STBL3028	99%	200.4 µg/mL	+/- 9.0294
4	Acenaphthylene	208-96-8	214935V18H	95%	199.1 µg/mL	+/- 8.9717
5	Acenaphthene	83-32-9	MKCR7169	99%	200.4 µg/mL	+/- 9.0294
6	Fluorene	86-73-7	10246250	98%	201.5 µg/mL	+/- 9.0784
7	Phenanthrene	85-01-8	MKCT3391	99%	201.2 µg/mL	+/- 9.0655
8	Anthracene	120-12-7	101492T18R	99%	200.0 µg/mL	+/- 9.0114
9	Fluoranthene	206-44-0	MKCQ4728	99%	200.4 µg/mL	+/- 9.0294
10	Pyrene	129-00-0	BCCK2592	99%	200.0 µg/mL	+/- 9.0114
11	Benz(a)anthracene	56-55-3	I60012022BAA	99%	200.0 µg/mL	+/- 9.0114
12	Chrysene	218-01-9	RP240627ECS	99%	200.4 µg/mL	+/- 9.0294
13	Benzo(b)fluoranthene	205-99-2	052013B	99%	201.2 µg/mL	+/- 9.0655
14	Benzo(k)fluoranthene	207-08-9	012022K	99%	201.6 µg/mL	+/- 9.0835
15	Benzo(a)pyrene	50-32-8	NQLXA	98%	199.9 µg/mL	+/- 9.0078
16	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	199.0 µg/mL	+/- 8.9683

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	RP240625RSR	97%	199.0	µg/mL	+/- 8.9683

* 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.)

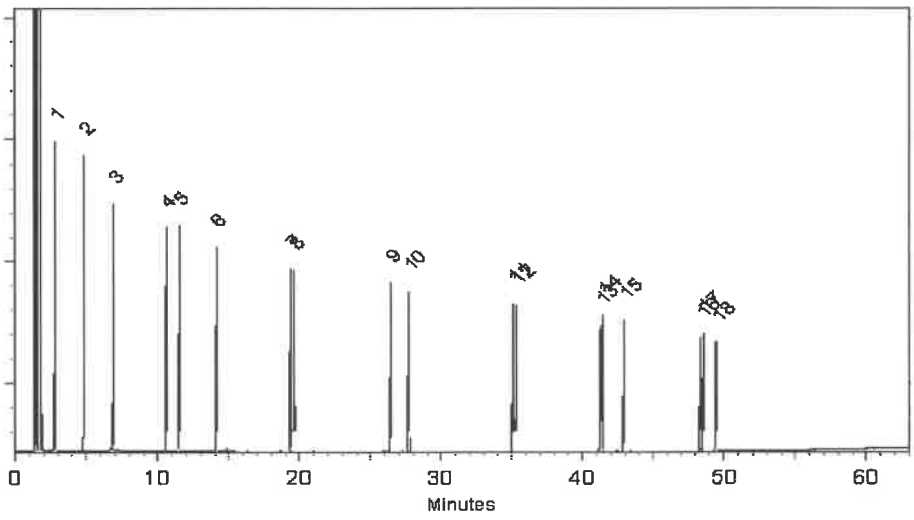
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
20 ml/min.

Inj. Vol
1µl



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Rebecca Gingerich - Operations Tech II

Date Mixed: 14-Oct-2024 **Balance Serial #** 1128360905

Brittany Federinko - Operations Tech I

Date Passed: 21-Oct-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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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:

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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.:** A0217838

Description : NJEPH Aromatics Matrix Spike Mix

NJEPH Aromatics Matrix Spike Mix 200µg/mL, Acetone/Toluene (50:50), 5mL/ampul

P13717 ↓ P13727 } Y.P 10/24/24

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : September 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%	201.6 µg/mL	+/- 9.0835
2	Naphthalene	91-20-3	STBL1057	99%	200.0 µg/mL	+/- 9.0114
3	2-Methylnaphthalene	91-57-6	STBL3028	99%	200.4 µg/mL	+/- 9.0294
4	Acenaphthylene	208-96-8	214935V18H	95%	199.1 µg/mL	+/- 8.9717
5	Acenaphthene	83-32-9	MKCR7169	99%	200.4 µg/mL	+/- 9.0294
6	Fluorene	86-73-7	10246250	98%	201.5 µg/mL	+/- 9.0784
7	Phenanthrene	85-01-8	MKCT3391	99%	201.2 µg/mL	+/- 9.0655
8	Anthracene	120-12-7	101492T18R	99%	200.0 µg/mL	+/- 9.0114
9	Fluoranthene	206-44-0	MKCQ4728	99%	200.4 µg/mL	+/- 9.0294
10	Pyrene	129-00-0	BCCK2592	99%	200.0 µg/mL	+/- 9.0114
11	Benz(a)anthracene	56-55-3	I60012022BAA	99%	200.0 µg/mL	+/- 9.0114
12	Chrysene	218-01-9	RP240627ECS	99%	200.4 µg/mL	+/- 9.0294
13	Benzo(b)fluoranthene	205-99-2	052013B	99%	201.2 µg/mL	+/- 9.0655
14	Benzo(k)fluoranthene	207-08-9	012022K	99%	201.6 µg/mL	+/- 9.0835
15	Benzo(a)pyrene	50-32-8	NQLXA	98%	199.9 µg/mL	+/- 9.0078
16	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	199.0 µg/mL	+/- 8.9683

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	RP240625RSR	97%	199.0	µg/mL	+/- 8.9683

* 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.)

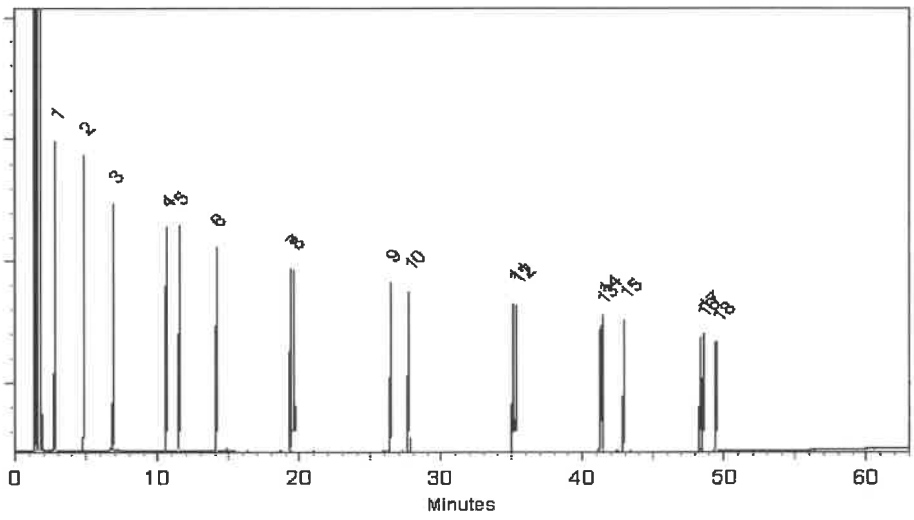
Inj. Temp:
250°C

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.

Rebecca Gingerich - Operations Tech II

Date Mixed: 14-Oct-2024 **Balance Serial #** 1128360905

Brittany Federinko - Operations Tech I

Date Passed: 21-Oct-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

ACCREDITED ISO 17034 Accredited 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.:** A0217838

Description : NJEPH Aromatics Matrix Spike Mix

NJEPH Aromatics Matrix Spike Mix 200µg/mL, Acetone/Toluene (50:50), 5mL/ampul

P13717 ↓ P13727 Y.P 10/24/24

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : September 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%	201.6 µg/mL	+/- 9.0835
2	Naphthalene	91-20-3	STBL1057	99%	200.0 µg/mL	+/- 9.0114
3	2-Methylnaphthalene	91-57-6	STBL3028	99%	200.4 µg/mL	+/- 9.0294
4	Acenaphthylene	208-96-8	214935V18H	95%	199.1 µg/mL	+/- 8.9717
5	Acenaphthene	83-32-9	MKCR7169	99%	200.4 µg/mL	+/- 9.0294
6	Fluorene	86-73-7	10246250	98%	201.5 µg/mL	+/- 9.0784
7	Phenanthrene	85-01-8	MKCT3391	99%	201.2 µg/mL	+/- 9.0655
8	Anthracene	120-12-7	101492T18R	99%	200.0 µg/mL	+/- 9.0114
9	Fluoranthene	206-44-0	MKCQ4728	99%	200.4 µg/mL	+/- 9.0294
10	Pyrene	129-00-0	BCCK2592	99%	200.0 µg/mL	+/- 9.0114
11	Benz(a)anthracene	56-55-3	I60012022BAA	99%	200.0 µg/mL	+/- 9.0114
12	Chrysene	218-01-9	RP240627ECS	99%	200.4 µg/mL	+/- 9.0294
13	Benzo(b)fluoranthene	205-99-2	052013B	99%	201.2 µg/mL	+/- 9.0655
14	Benzo(k)fluoranthene	207-08-9	012022K	99%	201.6 µg/mL	+/- 9.0835
15	Benzo(a)pyrene	50-32-8	NQLXA	98%	199.9 µg/mL	+/- 9.0078
16	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	199.0 µg/mL	+/- 8.9683

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	RP240625RSR	97%	199.0	µg/mL	+/- 8.9683

* 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.)

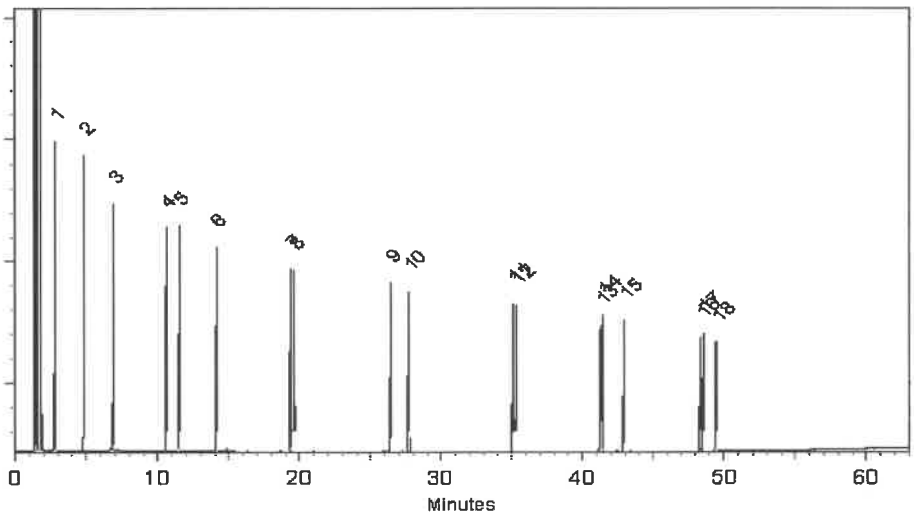
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
20 ml/min.

Inj. Vol
1µl



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Rebecca Gingerich - Operations Tech II

Date Mixed: 14-Oct-2024 **Balance Serial #** 1128360905

Brittany Federinko - Operations Tech I

Date Passed: 21-Oct-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:

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ilac-MRA A2LA ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

Certificate of Analysis

chromatographic plus

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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.:** A0217838

Description : NJEPH Aromatics Matrix Spike Mix

NJEPH Aromatics Matrix Spike Mix 200µg/mL, Acetone/Toluene (50:50), 5mL/ampul

P13717 ↓ P13727 } Y.P 10/24/24

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : September 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%	201.6 µg/mL	+/- 9.0835
2	Naphthalene	91-20-3	STBL1057	99%	200.0 µg/mL	+/- 9.0114
3	2-Methylnaphthalene	91-57-6	STBL3028	99%	200.4 µg/mL	+/- 9.0294
4	Acenaphthylene	208-96-8	214935V18H	95%	199.1 µg/mL	+/- 8.9717
5	Acenaphthene	83-32-9	MKCR7169	99%	200.4 µg/mL	+/- 9.0294
6	Fluorene	86-73-7	10246250	98%	201.5 µg/mL	+/- 9.0784
7	Phenanthrene	85-01-8	MKCT3391	99%	201.2 µg/mL	+/- 9.0655
8	Anthracene	120-12-7	101492T18R	99%	200.0 µg/mL	+/- 9.0114
9	Fluoranthene	206-44-0	MKCQ4728	99%	200.4 µg/mL	+/- 9.0294
10	Pyrene	129-00-0	BCCK2592	99%	200.0 µg/mL	+/- 9.0114
11	Benz(a)anthracene	56-55-3	I60012022BAA	99%	200.0 µg/mL	+/- 9.0114
12	Chrysene	218-01-9	RP240627ECS	99%	200.4 µg/mL	+/- 9.0294
13	Benzo(b)fluoranthene	205-99-2	052013B	99%	201.2 µg/mL	+/- 9.0655
14	Benzo(k)fluoranthene	207-08-9	012022K	99%	201.6 µg/mL	+/- 9.0835
15	Benzo(a)pyrene	50-32-8	NQLXA	98%	199.9 µg/mL	+/- 9.0078
16	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	199.0 µg/mL	+/- 8.9683

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	RP240625RSR	97%	199.0	µg/mL	+/- 8.9683

* 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.)

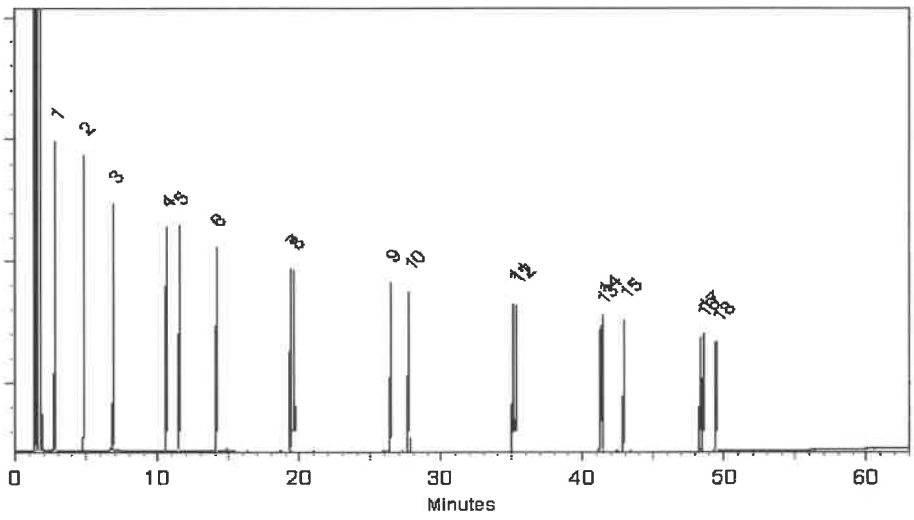
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
20 ml/min.

Inj. Vol
1µl



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Rebecca Gingerich - Operations Tech II

Date Mixed: 14-Oct-2024 **Balance Serial #** 1128360905

Brittany Federinko - Operations Tech I

Date Passed: 21-Oct-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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- 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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- 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:

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ilac-MRA A2LA ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ilac-MRA A2LA ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

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Catalog No. : 30543 **Lot No.:** A0217838

Description : NJEPH Aromatics Matrix Spike Mix

NJEPH Aromatics Matrix Spike Mix 200µg/mL, Acetone/Toluene (50:50), 5mL/ampul

P13717 ↓ P13727 } Y.P 10/24/24

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : September 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%	201.6 µg/mL	+/- 9.0835
2	Naphthalene	91-20-3	STBL1057	99%	200.0 µg/mL	+/- 9.0114
3	2-Methylnaphthalene	91-57-6	STBL3028	99%	200.4 µg/mL	+/- 9.0294
4	Acenaphthylene	208-96-8	214935V18H	95%	199.1 µg/mL	+/- 8.9717
5	Acenaphthene	83-32-9	MKCR7169	99%	200.4 µg/mL	+/- 9.0294
6	Fluorene	86-73-7	10246250	98%	201.5 µg/mL	+/- 9.0784
7	Phenanthrene	85-01-8	MKCT3391	99%	201.2 µg/mL	+/- 9.0655
8	Anthracene	120-12-7	101492T18R	99%	200.0 µg/mL	+/- 9.0114
9	Fluoranthene	206-44-0	MKCQ4728	99%	200.4 µg/mL	+/- 9.0294
10	Pyrene	129-00-0	BCCK2592	99%	200.0 µg/mL	+/- 9.0114
11	Benz(a)anthracene	56-55-3	I60012022BAA	99%	200.0 µg/mL	+/- 9.0114
12	Chrysene	218-01-9	RP240627ECS	99%	200.4 µg/mL	+/- 9.0294
13	Benzo(b)fluoranthene	205-99-2	052013B	99%	201.2 µg/mL	+/- 9.0655
14	Benzo(k)fluoranthene	207-08-9	012022K	99%	201.6 µg/mL	+/- 9.0835
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18	Benzo(g,h,i)perylene	191-24-2	RP240625RSR	97%	199.0	µg/mL	+/- 8.9683

* 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.)

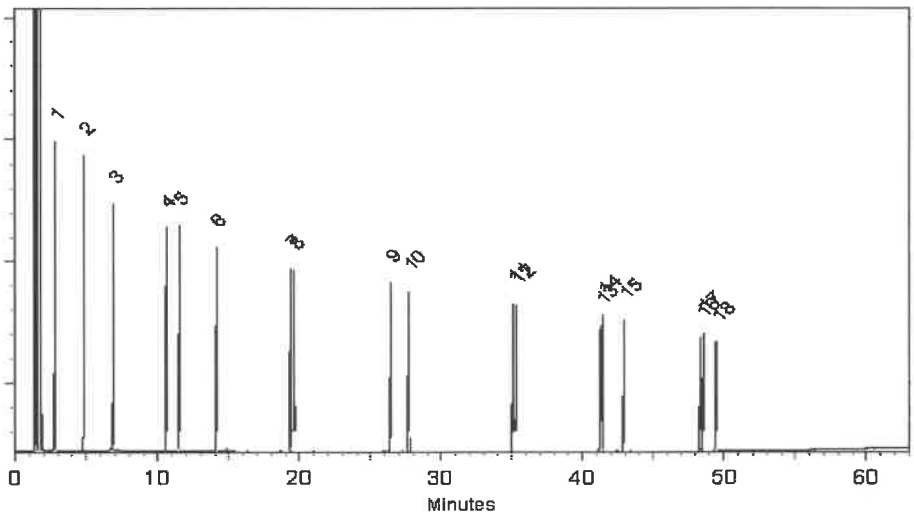
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
20 ml/min.

Inj. Vol
1µl



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Rebecca Gingerich - Operations Tech II

Date Mixed: 14-Oct-2024 **Balance Serial #** 1128360905

Brittany Federinko - Operations Tech I

Date Passed: 21-Oct-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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NJEPH Aromatics Matrix Spike Mix 200µg/mL, Acetone/Toluene (50:50), 5mL/ampul

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Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : September 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)
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3	2-Methylnaphthalene	91-57-6	STBL3028	99%	200.4 µg/mL	+/- 9.0294
4	Acenaphthylene	208-96-8	214935V18H	95%	199.1 µg/mL	+/- 8.9717
5	Acenaphthene	83-32-9	MKCR7169	99%	200.4 µg/mL	+/- 9.0294
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9	Fluoranthene	206-44-0	MKCQ4728	99%	200.4 µg/mL	+/- 9.0294
10	Pyrene	129-00-0	BCCK2592	99%	200.0 µg/mL	+/- 9.0114
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12	Chrysene	218-01-9	RP240627ECS	99%	200.4 µg/mL	+/- 9.0294
13	Benzo(b)fluoranthene	205-99-2	052013B	99%	201.2 µg/mL	+/- 9.0655
14	Benzo(k)fluoranthene	207-08-9	012022K	99%	201.6 µg/mL	+/- 9.0835
15	Benzo(a)pyrene	50-32-8	NQLXA	98%	199.9 µg/mL	+/- 9.0078
16	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	199.0 µg/mL	+/- 8.9683

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	RP240625RSR	97%	199.0	µg/mL	+/- 8.9683

* 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.)

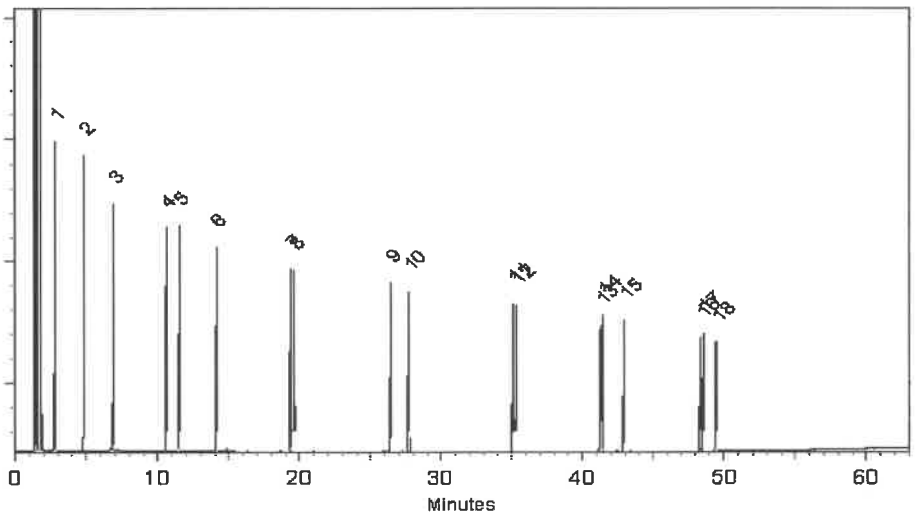
Inj. Temp:
250°C

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.

Rebecca Gingerich - Operations Tech II

Date Mixed: 14-Oct-2024 **Balance Serial #** 1128360905

Brittany Federinko - Operations Tech I

Date Passed: 21-Oct-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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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED
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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. : 30543 **Lot No.:** A0217838

Description : NJEPH Aromatics Matrix Spike Mix

NJEPH Aromatics Matrix Spike Mix 200µg/mL, Acetone/Toluene (50:50), 5mL/ampul

P13717 ↓ P13727 } Y.P 10/24/24

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : September 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%	201.6 µg/mL	+/- 9.0835
2	Naphthalene	91-20-3	STBL1057	99%	200.0 µg/mL	+/- 9.0114
3	2-Methylnaphthalene	91-57-6	STBL3028	99%	200.4 µg/mL	+/- 9.0294
4	Acenaphthylene	208-96-8	214935V18H	95%	199.1 µg/mL	+/- 8.9717
5	Acenaphthene	83-32-9	MKCR7169	99%	200.4 µg/mL	+/- 9.0294
6	Fluorene	86-73-7	10246250	98%	201.5 µg/mL	+/- 9.0784
7	Phenanthrene	85-01-8	MKCT3391	99%	201.2 µg/mL	+/- 9.0655
8	Anthracene	120-12-7	101492T18R	99%	200.0 µg/mL	+/- 9.0114
9	Fluoranthene	206-44-0	MKCQ4728	99%	200.4 µg/mL	+/- 9.0294
10	Pyrene	129-00-0	BCCK2592	99%	200.0 µg/mL	+/- 9.0114
11	Benz(a)anthracene	56-55-3	I60012022BAA	99%	200.0 µg/mL	+/- 9.0114
12	Chrysene	218-01-9	RP240627ECS	99%	200.4 µg/mL	+/- 9.0294
13	Benzo(b)fluoranthene	205-99-2	052013B	99%	201.2 µg/mL	+/- 9.0655
14	Benzo(k)fluoranthene	207-08-9	012022K	99%	201.6 µg/mL	+/- 9.0835
15	Benzo(a)pyrene	50-32-8	NQLXA	98%	199.9 µg/mL	+/- 9.0078
16	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	199.0 µg/mL	+/- 8.9683

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	RP240625RSR	97%	199.0	µg/mL	+/- 8.9683

* 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.)

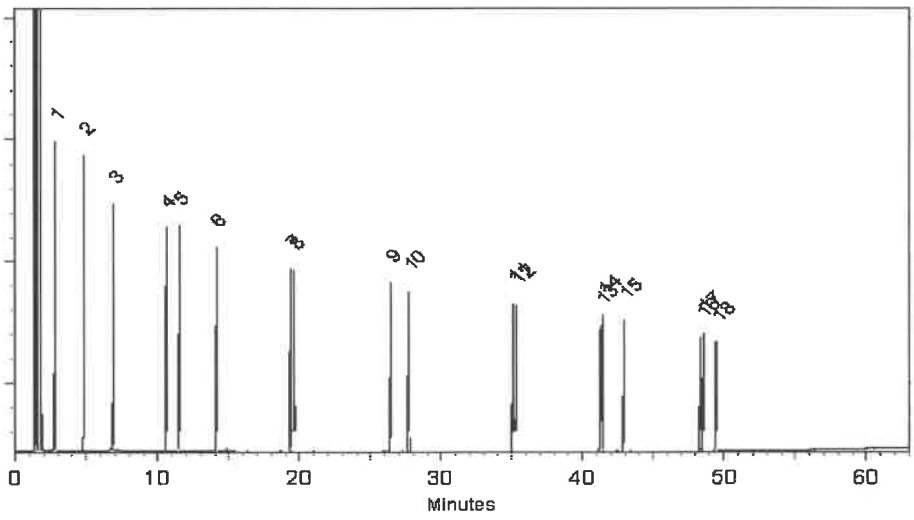
Inj. Temp:
250°C

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.

Rebecca Gingerich - Operations Tech II

Date Mixed: 14-Oct-2024 **Balance Serial #** 1128360905

Brittany Federinko - Operations Tech I

Date Passed: 21-Oct-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%.
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Manufacturing Notes:

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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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www.restek.com

CERTIFIED REFERENCE MATERIAL

ACCREDITED ISO 17034 Accredited 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.:** A0217838

Description : NJEPH Aromatics Matrix Spike Mix

NJEPH Aromatics Matrix Spike Mix 200µg/mL, Acetone/Toluene (50:50), 5mL/ampul

P13717 ↓ P13727 Y.P 10/24/24

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : September 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%	201.6 µg/mL	+/- 9.0835
2	Naphthalene	91-20-3	STBL1057	99%	200.0 µg/mL	+/- 9.0114
3	2-Methylnaphthalene	91-57-6	STBL3028	99%	200.4 µg/mL	+/- 9.0294
4	Acenaphthylene	208-96-8	214935V18H	95%	199.1 µg/mL	+/- 8.9717
5	Acenaphthene	83-32-9	MKCR7169	99%	200.4 µg/mL	+/- 9.0294
6	Fluorene	86-73-7	10246250	98%	201.5 µg/mL	+/- 9.0784
7	Phenanthrene	85-01-8	MKCT3391	99%	201.2 µg/mL	+/- 9.0655
8	Anthracene	120-12-7	101492T18R	99%	200.0 µg/mL	+/- 9.0114
9	Fluoranthene	206-44-0	MKCQ4728	99%	200.4 µg/mL	+/- 9.0294
10	Pyrene	129-00-0	BCCK2592	99%	200.0 µg/mL	+/- 9.0114
11	Benz(a)anthracene	56-55-3	I60012022BAA	99%	200.0 µg/mL	+/- 9.0114
12	Chrysene	218-01-9	RP240627ECS	99%	200.4 µg/mL	+/- 9.0294
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15	Benzo(a)pyrene	50-32-8	NQLXA	98%	199.9 µg/mL	+/- 9.0078
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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	RP240625RSR	97%	199.0	µg/mL	+/- 8.9683

* 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.)

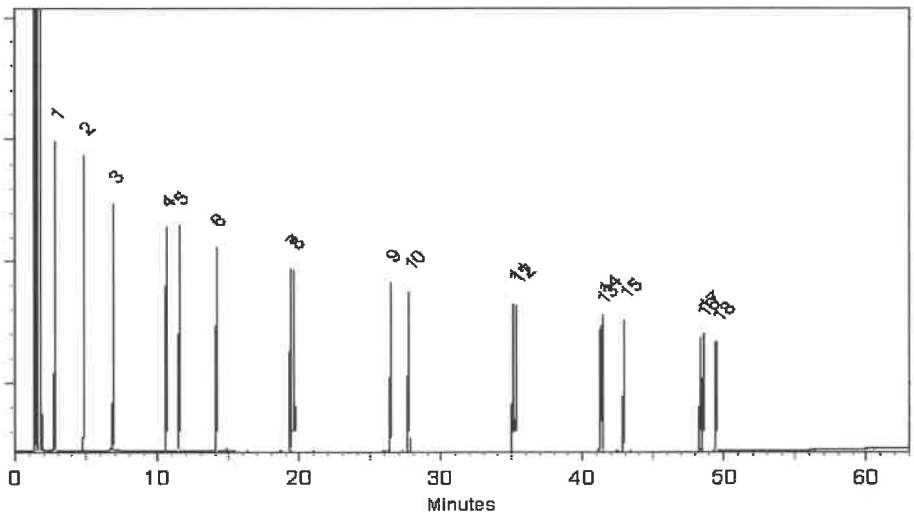
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
20 ml/min.

Inj. Vol
1µl



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Rebecca Gingerich - Operations Tech II

Date Mixed: 14-Oct-2024 **Balance Serial #** 1128360905

Brittany Federinko - Operations Tech I

Date Passed: 21-Oct-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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Purity Notes:

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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.

Handling Notes:

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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.:** A0217838

Description : NJEPH Aromatics Matrix Spike Mix

NJEPH Aromatics Matrix Spike Mix 200µg/mL, Acetone/Toluene (50:50), 5mL/ampul

P13717 ↓ P13727 } Y.P 10/24/24

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : September 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%	201.6 µg/mL	+/- 9.0835
2	Naphthalene	91-20-3	STBL1057	99%	200.0 µg/mL	+/- 9.0114
3	2-Methylnaphthalene	91-57-6	STBL3028	99%	200.4 µg/mL	+/- 9.0294
4	Acenaphthylene	208-96-8	214935V18H	95%	199.1 µg/mL	+/- 8.9717
5	Acenaphthene	83-32-9	MKCR7169	99%	200.4 µg/mL	+/- 9.0294
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8	Anthracene	120-12-7	101492T18R	99%	200.0 µg/mL	+/- 9.0114
9	Fluoranthene	206-44-0	MKCQ4728	99%	200.4 µg/mL	+/- 9.0294
10	Pyrene	129-00-0	BCCK2592	99%	200.0 µg/mL	+/- 9.0114
11	Benz(a)anthracene	56-55-3	I60012022BAA	99%	200.0 µg/mL	+/- 9.0114
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16	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	199.0 µg/mL	+/- 8.9683

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	RP240625RSR	97%	199.0	µg/mL	+/- 8.9683

* 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.)

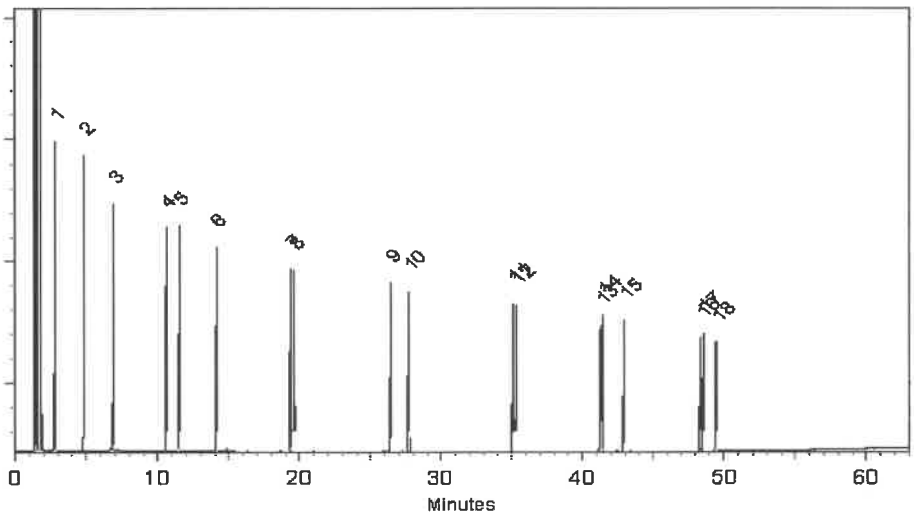
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
20 ml/min.

Inj. Vol
1µl



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Rebecca Gingerich - Operations Tech II

Date Mixed: 14-Oct-2024 **Balance Serial #** 1128360905

Brittany Federinko - Operations Tech I

Date Passed: 21-Oct-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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Purity Notes:

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- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

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SHIPPING DOCUMENTS

P4620

USEPA

DateShipped: 10/29/2024

CarrierName: Hand Deliver

AirbillNo: N/a

CHAIN OF CUSTODY RECORD

Site #: 872/872A

Contact Name Sean Quinn

Contact Phone 732-425-1175

No: 2-1029-0300-0041-01

RFP# NA

Lab: Alliance Technical Group, LLC - Non CLP

Lab Phone: 908-728-3144

Lab #	Sample #	Location	Analyses	Matrix	Sample Date	Sample Time	Numb Cont	Container	Preservative	Lab QC
	P001-CF06-01	CF06	SPLP PCBs	Soil	10/29/2024	10:05	2	8 oz glass	4 C	N
	P001-CF06-01	CF06	EPH	Soil	10/29/2024	10:05	1	4 oz glass	4 C	N
	P001-CF06-01	CF06	SPLP EPH	Soil	10/29/2024	10:05	2	8 oz glass	4 C	N
	P001-CF07-01	CF07	SPLP PCBs	Soil	10/29/2024	10:10	2	8 oz glass	4 C	N
	P001-CF07-01	CF07	EPH	Soil	10/29/2024	10:10	1	4 oz glass	4 C	N
	P001-CF07-01	CF07	SPLP EPH	Soil	10/29/2024	10:10	2	8 oz glass	4 C	N
	P001-CF08-01	CF08	SPLP PCBs	Soil	10/29/2024	10:15	2	8 oz glass	4 C	N
	P001-CF08-01	CF08	EPH	Soil	10/29/2024	10:15	1	4 oz glass	4 C	N
	P001-CF08-01	CF08	SPLP EPH	Soil	10/29/2024	10:15	2	8 oz glass	4 C	N
	P001-CF09-01	CF09	SPLP PCBs	Soil	10/29/2024	10:20	2	8 oz glass	4 C	N
	P001-CF09-01	CF09	EPH	Soil	10/29/2024	10:20	1	4 oz glass	4 C	N
	P001-CF09-01	CF09	SPLP EPH	Soil	10/29/2024	10:20	2	8 oz glass	4 C	N
	P001-CF10-01	CF10	SPLP PCBs	Soil	10/29/2024	10:30	2	8 oz glass	4 C	N
	P001-CF10-01	CF10	EPH	Soil	10/29/2024	10:30	1	4 oz glass	4 C	N
	P001-CF10-01	CF10	SPLP EPH	Soil	10/29/2024	10:30	2	8 oz glass	4 C	N
	P001-CF11-01	CF11	SPLP PCBs	Soil	10/29/2024	10:40	2	8 oz glass	4 C	N
	P001-CF11-01	CF11	EPH	Soil	10/29/2024	10:40	1	4 oz glass	4 C	N
	P001-CF11-01	CF11	SPLP EPH	Soil	10/29/2024	10:40	2	8 oz glass	4 C	N

Special Instructions: Please email results to S.Sumbaly@WestonSolutions.com and Sean.Quinn@WestonSolutions.com. TAT 7 days.

SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY #

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
ALL ANALYSES	WESTON SOLUTIONS	10/29/24 1440		1500 10-29-24	IR Gun # 1 Temp 3.1°C Custody Seal intact Temp blank present

P4620

USEPA

DateShipped: 10/29/2024

CarrierName: Hand Deliver

AirbillNo: N/a

CHAIN OF CUSTODY RECORD

Site #: 872/872A

Contact Name Sean Quinn

Contact Phone 732-425-1175

No: 2-1029-0300-0041-01

RFP# NA

Lab: Alliance Technical Group, LLC - Non CLP

Lab Phone: 908-728-3144

Lab #	Sample #	Location	Analyses	Matrix	Sample Date	Sample Time	Numb Cont	Container	Preservative	Lab QC
	P001-CF12-01	CF12	SPLP PCBs	Soil	10/29/2024	10:45	2	8 oz glass	4 C	N
	P001-CF12-01	CF12	EPH	Soil	10/29/2024	10:45	1	4 oz glass	4 C	N
	P001-CF12-01	CF12	SPLP EPH	Soil	10/29/2024	10:45	2	8 oz glass	4 C	N
	P001-CF13-01	CF13	SPLP PCBs	Soil	10/29/2024	10:50	2	8 oz glass	4 C	N
	P001-CF13-01	CF13	EPH	Soil	10/29/2024	10:50	1	4 oz glass	4 C	N
	P001-CF13-01	CF13	SPLP EPH	Soil	10/29/2024	10:50	2	8 oz glass	4 C	N
	P001-CF14-01	CF14	SPLP PCBs	Soil	10/29/2024	10:55	2	8 oz glass	4 C	N
	P001-CF14-01	CF14	EPH	Soil	10/29/2024	10:55	1	4 oz glass	4 C	N
	P001-CF14-01	CF14	SPLP EPH	Soil	10/29/2024	10:55	2	8 oz glass	4 C	N
	P001-CF15-01	CF15	SPLP PCBs	Soil	10/29/2024	11:00	2	8 oz glass	4 C	N
	P001-CF15-01	CF15	EPH	Soil	10/29/2024	11:00	1	4 oz glass	4 C	N
	P001-CF15-01	CF15	SPLP EPH	Soil	10/29/2024	11:00	2	8 oz glass	4 C	N
	P001-CF16-01	CF16	SPLP PCBs	Soil	10/29/2024	11:05	4	8 oz glass	4 C	Y
	P001-CF16-01	CF16	EPH	Soil	10/29/2024	11:05	2	4 oz glass	4 C	Y
	P001-CF16-01	CF16	SPLP EPH	Soil	10/29/2024	11:05	4	8 oz glass	4 C	Y
	P001-CF16-02	CF16	SPLP PCBs	Soil	10/29/2024	11:10	2	8 oz glass	4 C	N
	P001-CF16-02	CF16	EPH	Soil	10/29/2024	11:10	1	4 oz glass	4 C	N
	P001-CF16-02	CF16	SPLP EPH	Soil	10/29/2024	11:10	2	8 oz glass	4 C	N

Special Instructions: Please email results to S.Sumbaly@WestonSolutions.com and Sean.Quinn@WestonSolutions.com. TAT 7 days.

SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY #

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
ALL ANALYSIS	WESTON SOLUTIONS	10/29/24 1440		10-29-24 1500	IR Gun #1 Temp 3.1 C Custody Seal intact Temp blank present

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